



Houston-Galveston Area Council

December 13, 2018

Jazmin Milford (MC 203)
TMDL Project Manager
Water Quality Division
Texas Commission on Environmental Quality
12100 Park 35 Circle, Bldg. F
Austin, Texas 78753

RE: December 2018 Progress Report for Contract 582-18-81222, Work Order 4, Basin 11.

Dear Ms. Milford:

Enclosed is one (1) copy of the FY 2019 1st Progress Report for Contract No. 582-18-81222-4. It covers all deliverable/task activities for the project period September 1, 2018 through November 30, 2018. Financial Statements, HUB report and Voucher will be submitted separately.

Included in this Report are:

1. One copy of the progress report #1 for September 1, 2018 thru November 30, 2018.
2. Copies of meeting summaries and other pertinent materials from project related meetings.

We hope you find the quarterly report satisfactory. Any comments you have will be appreciated. If you have any questions, please contact me by phone (713-993-4549) or E-mail (todd.running@h-gac.com).

Sincerely,

Todd Running
Water Resources Program Manager
Community & Environmental Planning Dept.

CC Jason Leifester
Chis Loft

TR/sj
Enclosures

FY 2019 Quarter 1 Progress Report

Time Period Covered: 09/01/2018 – 11/30/2018

Name of Project: Basin Approach to Address Bacterial Impairments in the San Jacinto – Brazos Coastal Basin (Basin 11)

Contract No./Work Order 582-18-81222-04

TASK #1. PROJECT ADMINISTRATION

Deliverable(s)	Due Date	Status
List all deliverables under the task described above	List the due dates for each deliverable	If the deliverable has been completed, enter the date submitted to the TCEQ. If the deliverable has not been completed, briefly describe the status of each deliverable.
Quarterly/Monthly Progress Report	December 15, 2018	Monthly report for Work Order submitted electronically and hard copy on December 13, 2018
Invoice	December 15, 2018	Invoices will be submitted under another cover.
Project Updates	Weekly	Provided for September thru November 2018.

Work Performed This Period – detail all activities for this task and briefly describe the progress on each deliverable:

Work performed for this task during this period included writing and assembling the monthly report. Copies of weekly emails are attached.

TASK #2. PUBLIC EDUCATION AND OUTREACH

Deliverable(s)	Due Date	Status
List all deliverables under the task described above	List the due dates for each deliverable	If the deliverable has been completed, enter the date submitted to the TCEQ. If the deliverable has not been completed, briefly describe the status of each deliverable.
Development of meeting materials (Task 2.1)	Invitation letters, emails, press releases, and informational materials announcing meeting/event.	Public meeting was held on November 14, 2018. Meeting announcements, press releases and emails were prepared within a month prior to meeting. Materials shared with TCEQ prior to sending out to stakeholders.
Host two or more watershed stakeholder meetings (Task 2.2)	As needed	A public meeting was held on November 14, 2018 at the Brazoria County Public Library in Lake Jackson.
Copies of agendas and presentations for meetings (Task 2.3)	Due 2 weeks before distribution	Agenda incorporated within presentation. Meeting announcements and email to targeted individuals/organizations included. Draft presentation shared with TCEQ on 10/31/2018.
Summary of meetings (Task 2.4)	Within 2 weeks after meetings	A brief summary was included with the Nov. 5 th – 9 th weekly report. Full summary included with this report.
List of general stakeholders (Task 2.5)	Maintain and update as appropriate. Provide to TCEQ when requested.	Maintained and updated.
Facilitate delivery of Education programs (Task 2.6)	One or more during work order period.	No Update.
Public participation/outreach summaries (Task 2.7)	With PRs	Provided in discussion below.

Work Performed This Period – detail all activities for this task and briefly describe the progress on each deliverable:

Work related to this task focused on planning for a November 8, 2018 public meeting. This included: (Copies of the meeting materials and meeting summary attached to this report)

- Updating potential stakeholder contact information
- Drafting a public engagement plan
- Identifying and scheduling a meeting location
- Drafting meeting announcement and press release
- Emailing meeting announcement and press release and follow-up
- Creating the meeting agenda and presentation

Prior to the meeting, special attention was made to reach out to wastewater permit holders. Targeted letters, email and phone calls were made to encourage participation and to serve notice that H-GAC and TCEQ would be working to address bacteria in the Oyster Creek watershed.

November 8, 2018 – five stakeholders attended the public meeting. This Basin 11 public meeting’s focus was on Oyster Creek. H-GAC provided a presentation that covered Oyster Creek water quality impairments, bacteria sources, load duration curves, TMDL load allocations, and types of watershed-based plans. The attendees discussed what this means to them, opportunities to participate in development of a watershed-based plan, identify management measures, and current implementation underway.

TASK #3 DEVELOP OR UPDATE QAPPs FOR ACQUIRED DATA AND MONITORING DATA

Deliverable(s)	Due Date	Status
List all deliverables under the task described above	List the due dates for each deliverable	If the deliverable has been completed, enter the date submitted to the TCEQ. If the deliverable has not been completed, briefly describe the status of each deliverable.
Acquired Data QAPP Amendments (Task 3.1)	As needed.	None required.
Acquired Data QAPP Update (Task 3.2)	As needed	Annual update for FY2018 submitted to TCEQ in early September. Approval made in October.
QAPP CARs (Task 3.3)	As needed	None required.
Quality assurance audits (Task 3.4)	Will participate as needed	None required for the quarter.

Work Performed This Period

Acquired Data QAPP update was submitted in early in September for TCEQ approval. Update was approved and executed in October.

TASK #4 TECHNICAL SUPPORT DOCUMENT FOR HALLS BAYOU

Deliverable(s)	Due Date	Status
List all deliverables under the task described above	List the due dates for each deliverable	If the deliverable has been completed, enter the date submitted to the TCEQ. If the deliverable has not been completed, briefly describe the status of each deliverable.
Draft TSD for Halls Bayou (Task 4.1)	January 15, 2019	LDC are in development. Finalizing the Halls Bayou Characterization Report.
Final TSD for Halls Bayou	Within two weeks of receipt of TCEQ comments on draft.	No Update.

Work Performed This Period – detail all activities for this task and briefly describe the progress on each deliverable:

H-GAC spent most of the quarter finalizing the Halls Bayou Characterization report. Staff initiated development of load duration curves and identified a source for flow data.

TASK #5 TMDL SUPPORT FOR CHOCOLATE BAYOU ADOPTION

Deliverable(s)	Due Date	Status
List all deliverables under the task described above	List the due dates for each deliverable	Final progress report and evaluation submitted to TCEQ
TMDL support (Task 5.1)	As needed	Modifying the TSD and TMDL.

Work Performed This Period – detail all activities for this task and briefly describe the progress on each deliverable:

The TMDL program requested the USGS’s NHDplus hydrology data layer for TMDL projects be used in delineating watershed boundaries. The Chocolate Bayou watershed presented in the TSD and the draft TMDL were developed using H-GAC watershed boundary layers. Staff corrected the boundary layer using NHDplus during the quarter. The boundary changes are significant and require modifying the TSD and TMDL data, maps, and TMDL results. The documents are being revised to account for the changes.

TASK #6 WATERSHED CHARACTERIZATION REPROT FOR MUSTANG BAYOU

Deliverable(s)	Due Date	Status
List all deliverables under the task described above	List the due dates for each deliverable	Final progress report and evaluation submitted to TCEQ
Draft Characterization Report (Task 6.1)	June 15, 2019	No progress to report.
Final Characterization Report (Task 6.2)	Within two weeks of receipt of TCEQ comments on draft.	No progress.

Work Performed This Period – detail all activities for this task and briefly describe the progress on each deliverable:

There is no progress to report on this task. Work on this task will begin in January 2019.

TASK #7 TMDL AND DEVELOPMENT OF SPECIFIC KEY ELEMENTS FOR A WPP FOR OYSTER CREEK

Deliverable(s)	Due Date	Status
List all deliverables under the task described above	List the due dates for each deliverable	Final progress report and evaluation submitted to TCEQ
Draft Oyster Creek TMDL (Task 7.1)	June 1, 2019	No progress reported.
Oyster Creek Work Group Meetings (Task 7.2)	One to four, as needed.	No progress reported.

Final Oyster Creek TMDL and Key Elements WPP	Two weeks after receipt of TCEQ comments.	No progress reported.
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Work Performed This Period – detail all activities for this task and briefly describe the progress on each deliverable:

No work related to this task were performed during this quarter. Work will begin in January 2018. The Oyster Creek TSD was finalized over the quarter. The information will be used to develop the TMDL. A public meeting was held in the watershed to initiate the I-Plan/WPP discussion process and identify stakeholders for future work group meetings.

TASK #8 SUPPORT OF TEXAS STREAM TEAM PROGRAMS

Deliverable(s)	Due Date	Status
List all deliverables under the task described above	List the due dates for each deliverable	Final progress report and evaluation submitted to TCEQ
Organize trainings and provide monitoring kits (Task 8.1)	Provide summaries with PRs	No progress reported in this quarter.
Target volunteer efforts (Task 8)	Provide summaries with PRs	No progress in this quarter.

Work Performed This Period – detail all activities for this task and briefly describe the progress on each deliverable:

No work specific to this task was carried out during the quarter.

PROJECT RELATED MEETINGS, WORKSHOPS, TRAINING OR EVENTS

- 1) Presentations:
 - a. No presentations given in this quarter.
- 2) Meetings, Events and Conferences:
 - a. November 7, 2018 – staff attended the Coastal Communities’ Regional Stormwater Quality Education Workgroup.
 - b. November 30, 2018 – staff met with TX AgriLife to discuss potential collaboration on a green infrastructure workshop for Basin 11 in the spring 2019.
- 3) Associated Implementation Projects and Programs
 - a. LID Project – staff participated LID workshop to disseminate the results of the GBEP/H-GAC LID project. H-GAC worked with the city of Pearland to review current ordinance and codes to develop recommendation to encourage the use of LID and green infrastructure practices.

BRIEF DESCRIPTION OF OVERALL FINDINGS:

Work for this quarter focused on addressing accessibility standards and other need edits to the Halls Bayou characterization report and the Oyster Creek TSD. In addition, staff began to revise the Chocolate Bayou watershed to conform with NHDplus and make appropriate modifications to the data, maps, calculations and other information contained in the Chocolate Bayou TMDL and TSD. Staff coordinated and facilitated the fourth public meeting focused on Oyster Creek. H-GAC received interest from the cities of Lake Jackson and Oyster Creek, Brazoria County, and several wastewater consultants. H-GAC will continue to reach out to watershed stakeholders as the stakeholder effort to build support for a watershed-based plan commences.

Significant Problems (describe any scheduling shortfalls, detail significant problems and how these problems were resolved, etc.):

No significant problems were encounter this quarter.

Johnston, Steven

From: Johnston, Steven
Sent: Tuesday, October 2, 2018 4:24 PM
To: 'Jazmyn Milford'
Cc: Chris Loft; Jason Leifester (Jason.leifester@tceq.texas.gov)
Subject: RE: FY 19 WO #4 Weekly Reports (Sept 3 - Sept 7; Sept 10 - Sept 14; Sept 17 - Sept 21; and Sept 24 - Sept 28)

Good Afternoon, Jazmyn – Below you will find the weekly reports for Work Order #4 under 582-18-81222. Please let me know if you have any questions.

Sept. 3 – Sept. 7th:

Task 1 Project Administration

- **Anticipate Spend Down August 2019?:** Yes.
- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$180,000
- **Total Spent to Date ():** \$ **Remaining Budget Amount:** \$180,000

Task 2 Public Education and Outreach Activities

- Staff discussed internally the project timeline and meeting schedule.

Task 3 Quality Assurance

- Submitted QAPP annual update. Received comments and began to address.

Task 4 TSD for Halls Bayou Tidal

- Draft Halls Bayou Characterization Report submitted and undergoing review and edit process.
- Staff discussed timeline for TSD and elements that need to be added to the current Characterization Report.
- LDCs are being developed.

Task 5 TMDL Support for Chocolate Bayou Adoption

- Received comments to Chocolate Bayou TMDL. Addressing comments.

Task 6 Watershed Characterization Report for Mustang Bayou

- Staff met to discuss the elements of the report and timeline.

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- Submitted the Oyster Creek TSD. Document under review.

Task 8 Support of Texas Stream Team Programs

- No activities to report.

Sept. 10 – Sept. 14th:

Task 1 Project Administration

- **Anticipate Spend Down August 2019?:** Yes.
- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$180,000

- **Total Spent to Date (): \$ Remaining Budget Amount: \$180,000**

Task 2 Public Education and Outreach Activities

- Staff began looking at potential dates for the first FY19 public meeting for Oyster Creek.
- Staff began looking at potential dates for the next Chocolate Bayou public meeting.

Task 3 Quality Assurance

- Re-submitted QAPP annual update.

Task 4 TSD for Halls Bayou Tidal

- Draft Halls Bayou Characterization Report submitted and undergoing review and edit process.
- LDCs are being created.

Task 5 TMDL Support for Chocolate Bayou Adoption

- Received comments to Chocolate Bayou TMDL. Addressing comments. Comments require edits to maps.
- Drafting the I-Plan Status report.

Task 6 Watershed Characterization Report for Mustang Bayou

- No activities to report.

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- Received comments to the Oyster Creek TSD. Addressing comments. Maps are being revised. Changes will be required to other watershed map sets.

Task 8 Support of Texas Stream Team Programs

- No activities to report.

Sept. 17 – Sept. 21st:

Task 1 Project Administration

- **Anticipate Spend Down August 2019?:** Yes.
- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$180,000
- **Total Spent to Date (): \$ Remaining Budget Amount:** \$180,000

Task 2 Public Education and Outreach Activities

- First FY19 public meeting for Oyster Creek date changed from October 25th to November 8th. Meeting location at the Brazoria County Public Library in Lake Jackson.
- Staff identified November 14, 2018 as a potential date for the next Chocolate Bayou public meeting. Meeting would likely be held at the Brazoria County Public Library in Alvin, TX.

Task 3 Quality Assurance

- QAPP annual update with TCEQ.

Task 4 TSD for Halls Bayou Tidal

- Draft Halls Bayou Characterization Report submitted and undergoing review and edit process.
- LDCs are being created.

Task 5 TMDL Support for Chocolate Bayou Adoption

- Received comments to Chocolate Bayou TMDL. Addressing comments. Comments require edits to maps. Map revisions are being delayed due to staff availability. Should be addressed the first week of October.

- Submitted the draft I-Plan status report.

Task 6 Watershed Characterization Report for Mustang Bayou

- No activities to report.

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- Received additional comments to the Oyster Creek TSD. Comments being addressed.

Task 8 Support of Texas Stream Team Programs

- No activities to report.

Sept. 24 – Sept. 28th:

Task 1 Project Administration

- **Anticipate Spend Down August 2019?:** Yes.
- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$180,000
- **Total Spent to Date ():** \$ **Remaining Budget Amount:** \$180,000

Task 2 Public Education and Outreach Activities

- First FY19 public meeting for Oyster Creek date changed from October 25th to November 8th. Meeting location at the Brazoria County Public Library in Lake Jackson.
- Staff identified November 14, 2018 as a potential date for the next Chocolate Bayou public meeting. Meeting would likely be held at the Brazoria County Public Library in Alvin, TX.

Task 3 Quality Assurance

- QAPP annual update with TCEQ.

Task 4 TSD for Halls Bayou Tidal

- Draft Halls Bayou Characterization Report submitted and undergoing review and edit process.
- LDCs are being created.

Task 5 TMDL Support for Chocolate Bayou Adoption

- Received comments to Chocolate Bayou TMDL. Addressing comments. Comments require edits to maps. Map revisions are being delayed due to staff availability. Should be addressed the first week of October.
- Received comments to the draft I-Plan status report. Comments being addressed.

Task 6 Watershed Characterization Report for Mustang Bayou

- No activities to report.

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- Submitted a revised draft Oyster Creek TSD.

Task 8 Support of Texas Stream Team Programs

- No activities to report.

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steven.johnston@h-gac.com

<http://h-gac.com/community/water/tmdl/big/default.aspx>

Johnston, Steven

From: Johnston, Steven
Sent: Sunday, October 14, 2018 6:03 PM
To: 'Jazmyn Milford'
Cc: 'Chris Loft'; 'Jason Leifester (Jason.leifester@tceq.texas.gov)'
Subject: RE: FY 19 WO #4 Weekly Reports (Oct 1 - Oct 5 and Oct 8 - Oct 12)

Good Afternoon, Jazmyn – Below you will find the weekly reports for Work Order #4 under 582-18-81222. Please let me know if you have any questions.

Oct. 1st – Oct. 5th:

Task 1 Project Administration

- **Anticipate Spend Down August 2019?:** Yes.
- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$180,000
- **Total Spent to Date ():** \$ **Remaining Budget Amount:** \$180,000

Task 2 Public Education and Outreach Activities

- First FY19 public meeting for Oyster Creek set for November 8th. Meeting location at the Brazoria County Public Library in Lake Jackson.
 - First email announcements sent out.
 - Meeting placed in H-GAC newsletters.
 - Local papers informed of meeting.
 - Mailed meeting announcement to permit holders.
- Staff identified November 14, 2018 as a potential date for the next Chocolate Bayou public meeting. Meeting would likely be held at the Brazoria County Public Library in Alvin, TX.

Task 3 Quality Assurance

- Received approval to submit QAPP annual update to TCEQ with signatures.

Task 4 TSD for Halls Bayou Tidal

- Draft Halls Bayou Characterization Report submitted and undergoing review and edit process.
- LDCs are being created.

Task 5 TMDL Support for Chocolate Bayou Adoption

- Received comments to Chocolate Bayou TMDL. Addressing comments. Comments require edits to maps. Map revisions are being delayed due to staff availability. Should be addressed the first week of October.
- Received comments to the draft I-Plan status report. Comments being addressed.

Task 6 Watershed Characterization Report for Mustang Bayou

- No activities to report.

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- Received comments to revised draft Oyster Creek TSD. Discussed the comments with TCEQ PM. Noted time table for revising and staff are working to correct maps with spelling errors.

Task 8 Support of Texas Stream Team Programs

- No activities to report.

Oct. 8st – Oct. 12th:

Task 1 Project Administration

- **Anticipate Spend Down August 2019?:** Yes.
- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$180,000
- **Total Spent to Date ():** \$ **Remaining Budget Amount:** \$180,000

Task 2 Public Education and Outreach Activities

- First FY19 public meeting for Oyster Creek set for November 8th. Meeting location at the Brazoria County Public Library in Lake Jackson.
 - Received positive feedback to meeting announcement. City of Oyster Creek and Lake Jackson have voiced interest in attending.
- Staff identified November 14, 2018 as a potential date for the next Chocolate Bayou public meeting. Meeting would likely be held at the Brazoria County Public Library in Alvin, TX.

Task 3 Quality Assurance

- Submitted QAPP annual update to TCEQ with signatures.

Task 4 TSD for Halls Bayou Tidal

- Draft Halls Bayou Characterization Report submitted and undergoing review and edit process.
- LDCs are being created.

Task 5 TMDL Support for Chocolate Bayou Adoption

- Received comments to Chocolate Bayou TMDL. Addressing comments. Comments require edits to maps. Map revisions are being delayed due to staff availability. Should be addressed the first week of October.
- Received comments to the draft I-Plan status report. Comments being addressed.

Task 6 Watershed Characterization Report for Mustang Bayou

- No activities to report.

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- Received comments to revised draft Oyster Creek TSD. Discussed the comments with TCEQ PM. Noted time table for revising and staff are working to correct maps with spelling errors.

Task 8 Support of Texas Stream Team Programs

- No activities to report.

Steven Johnston
Senior Planner
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steven.johnston@h-gac.com
<http://h-gac.com/community/water/tmdl/big/default.aspx>

Johnston, Steven

From: Johnston, Steven
Sent: Friday, October 26, 2018 3:48 PM
To: 'Jazmyn Milford'
Cc: 'Chris Loft'; 'Jason Leifester (Jason.leifester@tceq.texas.gov)'
Subject: FY 19 WO #4 Weekly Report (Oct 15 - Oct 19)

Good Afternoon, Jazmyn – Below you will find the weekly report for Work Order #4 under 582-18-81222. Please let me know if you have any questions.

Oct. 15th – Oct. 19th:

Task 1 Project Administration

- **Anticipate Spend Down August 2019?:** Yes.
- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$180,000
- **Total Spent to Date ():** \$ **Remaining Budget Amount:** \$180,000
- Financial information will be updated with the next report.

Task 2 Public Education and Outreach Activities

- First FY19 public meeting for Oyster Creek set for November 8th. Meeting location at the Brazoria County Public Library in Lake Jackson.
 - Received positive feedback to meeting announcement. City of Oyster Creek, Lake Jackson and Brazoria County have voiced interest in attending.
- Meeting postponed: *Staff identified November 14, 2018 as a potential date for the next Chocolate Bayou public meeting. Meeting would likely be held at the Brazoria County Public Library in Alvin, TX.* Draft I-Plan will not be ready for this public meeting. Meeting after document has been completed will be more productive.

Task 3 Quality Assurance

- QAPP was approved. Document link shared with H-GAC staff.

Task 4 TSD for Halls Bayou Tidal

- Comments to the Halls Bayou Characterization Report are being addressed. Anticipate delivery the week of October 30, 2018.
- LDCs are being created.

Task 5 TMDL Support for Chocolate Bayou Adoption

- Addressing comments. Revising map set to use NHD plus. Oyster Creek and Halls Bayou were completed in NHD plus. Anticipate mapping Mustang Bayou using NHD plus watershed boundary layer. This requires adjusting adjacent watersheds including Chocolate. Data and calculations will be adjusted to accommodate the change in watershed boundary.
- Received comments to the draft I-Plan status report. Comments being addressed.

Task 6 Watershed Characterization Report for Mustang Bayou

- No activities to report.

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- Received comments to revised draft Oyster Creek TSD. Discussed the comments with TCEQ PM. Noted time table for revising and staff are working to correct maps with spelling errors. Anticipate delivery the week on October 30, 2018.

Task 8 Support of Texas Stream Team Programs

- No activities to report.

Steven Johnston
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<http://h-gac.com/community/water/tmdl/big/default.aspx>

Johnston, Steven

From: Johnston, Steven
Sent: Monday, October 29, 2018 4:16 PM
To: 'Jazmyn Milford'
Cc: 'Chris Loft'; 'Jason Leifester (Jason.leifester@tceq.texas.gov)'
Subject: RE: FY 19 WO #4 Weekly Report (Oct 22 - Oct 26)

Good Afternoon, Jazmyn – Below you will find the weekly report for Work Order #4 under 582-18-81222. Please let me know if you have any questions.

Oct. 22nd – Oct. 26th:

Task 1 Project Administration

- **Anticipate Spend Down August 2019?:** Yes.
- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$180,000
- **Total Spent to Date: (\$17,887.02) Remaining Budget Amount: \$162,112.98**

Task 2 Public Education and Outreach Activities

- First FY19 public meeting for Oyster Creek set for November 8th. Meeting location at the Brazoria County Public Library in Lake Jackson.
 - Sent out second meeting reminder.
 - Preparing meeting materials/presentation.

Task 3 Quality Assurance

- No updates.

Task 4 TSD for Halls Bayou Tidal

- Comments to the Halls Bayou Characterization Report are being addressed. Anticipate delivery the week of October 30, 2018.
- LDCs are being created.

Task 5 TMDL Support for Chocolate Bayou Adoption

- Addressing comments. Revising map set to use NHD plus. Oyster Creek and Halls Bayou were completed in NHD plus. Anticipate mapping Mustang Bayou using NHD plus watershed boundary layer. This requires adjusting adjacent watersheds including Chocolate. Data and calculations will be adjusted to accommodate the change in watershed boundary.
- Received comments to the draft I-Plan status report. Comments being addressed.

Task 6 Watershed Characterization Report for Mustang Bayou

- No activities to report.

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- Received comments to revised draft Oyster Creek TSD. Discussed the comments with TCEQ PM. Noted time table for revising and staff are working to correct maps with spelling errors. Anticipate delivery the week on October 30, 2018.

Task 8 Support of Texas Stream Team Programs

- No activities to report.

Steven Johnston
Senior Planner
Community & Environmental Department | Houston-Galveston Area Council
3555 Timmons, Suite 120 Houston, TX 77027 | www.h-gac.com
832.681.2579 | 713.627.3200 | fax: 713.993.4503
steven.johnston@h-gac.com
<http://h-gac.com/community/water/tmdl/big/default.aspx>

Johnston, Steven

From: Johnston, Steven
Sent: Tuesday, November 6, 2018 5:24 PM
To: 'Jazmyn Milford'
Cc: 'Chris Loft'; 'Jason Leifester (Jason.leifester@tceq.texas.gov)'
Subject: RE: FY 19 WO #4 Weekly Report (Oct 29 - Nov 2)

Good Afternoon, Jazmyn – Below you will find the weekly report for Work Order #4 under 582-18-81222. Please let me know if you have any questions.

Oct. 29th – Nov. 2nd:

Task 1 Project Administration

- **Anticipate Spend Down August 2019?:** Yes.
- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$180,000
- **Total Spent to Date: (Sept. 30, 2018)** \$17,887.02 **Remaining Budget Amount:** \$162,112.98

Task 2 Public Education and Outreach Activities

- First FY19 public meeting for Oyster Creek set for November 8th. Meeting location at the Brazoria County Public Library in Lake Jackson.
 - Prepared presentation. Shared presentation, including meeting agenda, with TCEQ PM.
 - Final meeting reminder will go out the week of November 5, 2018.

Task 3 Quality Assurance

- No updates.

Task 4 TSD for Halls Bayou Tidal

- Addressing comments to the TSD.
- LDCs are being created.

Task 5 TMDL Support for Chocolate Bayou Adoption

- Addressed comments. Revising map set to use NHD plus. Oyster Creek and Halls Bayou were completed in NHD plus. Anticipate mapping Mustang Bayou using NHD plus watershed boundary layer. This requires adjusting adjacent watersheds including Chocolate. Data and calculations will be adjusted to accommodate the change in watershed boundary. TMDL document and TSD will be updated when complete.
- Comments to the I-Plan Status Report addressed. Completing final review. Will submit to TCEQ PM during the week of November 5th.

Task 6 Watershed Characterization Report for Mustang Bayou

- No activities to report.

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- Maps have been updated and comments addressed. Conducting final review. Will submit to TCEQ PM during the week of November 5th.

Task 8 Support of Texas Stream Team Programs

- No activities to report.

Steven Johnston
Senior Planner
Community & Environmental Department | Houston-Galveston Area Council
3555 Timmons, Suite 120 Houston, TX 77027 | www.h-gac.com
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steven.johnston@h-gac.com
<http://h-gac.com/community/water/tmdl/big/default.aspx>

Johnston, Steven

From: Johnston, Steven
Sent: Monday, November 12, 2018 4:56 PM
To: 'Jazmyn Milford'
Cc: 'Chris Loft'; 'Jason Leifester (Jason.leifester@tceq.texas.gov)'
Subject: FY 19 WO #4 Weekly Report (Nov 5 - Nov 9)

Good Afternoon, Jazmyn – Below you will find the weekly report for Work Order #4 under 582-18-81222. Please let me know if you have any questions.

Nov. 5th – Nov. 9th:

Task 1 Project Administration

- **Anticipate Spend Down August 2019?:** Yes.
- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$180,000
- **Total Spent to Date: (Sept. 30, 2018)** \$17,887.02 **Remaining Budget Amount:** \$162,112.98
- Will update with next report.

Task 2 Public Education and Outreach Activities

- First FY19 public meeting for Oyster Creek set was held November 8th. Meeting location at the Brazoria County Public Library in Lake Jackson.
 - Five local stakeholders attended the meeting. H-GAC provided a presentation that covered Oyster Creek water quality impairments, bacteria sources, load duration curves, TMDL load allocations, and types of watershed based plans. The attendees discussed what this means to them, opportunities to participate in development of a watershed based plan, identify management measures, and current implementation underway.

Task 3 Quality Assurance

- No updates.

Task 4 TSD for Halls Bayou Tidal

- Revised and resubmitted draft characterization report to TCEQ PM for review.
- LDCs are being created.

Task 5 TMDL Support for Chocolate Bayou Adoption

- Revised map set nearing completion. TMDL document and TSD will be revised to address changes to the maps.
- Comments to the I-Plan Status Report addressed. Completing final review. Will be submitted the week of November 12th.

Task 6 Watershed Characterization Report for Mustang Bayou

- No activities to report.

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- Maps have been updated and comments addressed. Conducting final review. Will submit to TCEQ PM during the week of November 12th.
- Stakeholders attended the public meeting held on November 8, 2018. H-GAC presented watershed-based plan options, development expectations for a coordination committee and potential plan time-line.

Task 8 Support of Texas Stream Team Programs

- No activities to report.

Steven Johnston

Senior Planner

Community & Environmental Department | Houston-Galveston Area Council

3555 Timmons, Suite 120 Houston, TX 77027 | www.h-gac.com

832.681.2579 | 713.627.3200 | fax: 713.993.4503

steven.johnston@h-gac.com

<http://h-gac.com/community/water/tmdl/big/default.aspx>

Johnston, Steven

From: Johnston, Steven
Sent: Wednesday, November 28, 2018 5:43 PM
To: 'Jazmyn Milford'
Cc: 'Chris Loft'; 'Jason Leifester (Jason.leifester@tceq.texas.gov)'
Subject: FY 19 WO #4 Weekly Report (Nov 12 - Nov 16)

Good Evening, Jazmyn – Below you will find the weekly report for Work Order #4 under 582-18-81222. Please let me know if you have any questions.

Nov. 12th – Nov. 16th:

Task 1 Project Administration

- **Anticipate Spend Down August 2019?:** Yes.
- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$180,000
- **Total Spent to Date: (Oct. 31, 2018)** \$31,099.85 **Remaining Budget Amount:** \$148,900.15

Task 2 Public Education and Outreach Activities

- Beginning to plan for the first Oyster Creek coordination committee meeting.

Task 3 Quality Assurance

- No updates.

Task 4 TSD for Halls Bayou Tidal

- Received additional comments and began to address.
- LDCs are being created.

Task 5 TMDL Support for Chocolate Bayou Adoption

- Revised map set completed. Revising TMDL document and TSD with addressed changes to the maps.
- I-Plan Status Report resubmitted to TCEQ PM.

Task 6 Watershed Characterization Report for Mustang Bayou

- No activities to report.

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- TSD resubmitted to TCEQ PM.
- Beginning to plan first coordination committee meeting.

Task 8 Support of Texas Stream Team Programs

- No activities to report.

Steven Johnston
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<http://h-gac.com/community/water/tmdl/big/default.aspx>

Johnston, Steven

From: Johnston, Steven
Sent: Wednesday, November 28, 2018 6:09 PM
To: 'Jazmyn Milford'
Cc: 'Chris Loft'; 'Jason Leifester (Jason.leifester@tceq.texas.gov)'
Subject: FY 19 WO #4 Weekly Report (Nov 19 - Nov 23)

Good Evening, Jazmyn – Below you will find the weekly report for Work Order #4 under 582-18-81222. Please let me know if you have any questions.

Nov. 19th – Nov. 23rd: (Please note, there are no changes reported as staff were out this week)

Task 1 Project Administration

- **Anticipate Spend Down August 2019?:** Yes.
- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$180,000
- **Total Spent to Date: (Oct. 31, 2018)** \$31,099.85 **Remaining Budget Amount:** \$148,900.15

Task 2 Public Education and Outreach Activities

- Beginning to plan for the first Oyster Creek coordination committee meeting.

Task 3 Quality Assurance

- No updates.

Task 4 TSD for Halls Bayou Tidal

- Received additional comments and began to address.
- LDCs are being created.

Task 5 TMDL Support for Chocolate Bayou Adoption

- Revised map set completed. Revising TMDL document and TSD with addressed changes to the maps.
- I-Plan Status Report resubmitted to TCEQ PM.

Task 6 Watershed Characterization Report for Mustang Bayou

- No activities to report.

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- TSD resubmitted to TCEQ PM.
- Beginning to plan first coordination committee meeting.

Task 8 Support of Texas Stream Team Programs

- No activities to report.

Steven Johnston
Senior Planner
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steven.johnston@h-gac.com

<http://h-gac.com/community/water/tmdl/big/default.aspx>

Johnston, Steven

From: Johnston, Steven
Sent: Wednesday, December 12, 2018 5:06 PM
To: 'Jazmyn Milford'
Cc: 'Chris Loft'; 'Jason Leifester (Jason.leifester@tceq.texas.gov)'
Subject: FY 19 WO #4 Weekly Reports (Nov 26 - Nov 30) and (Dec 3 - Dec 7)

Good Afternoon, Jazmyn – Below you will find the weekly reports for Work Order #4 under 582-18-81222. Please let me know if you have any questions.

Nov. 26th – Nov. 30th:

Task 1 Project Administration

- **Anticipate Spend Down August 2019?:** Yes.
- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$180,000
- **Total Spent to Date: (Oct. 31, 2018)** \$31,099.85 **Remaining Budget Amount:** \$148,900.15

Task 2 Public Education and Outreach Activities

- Staff will be meeting in December to develop Oyster CC meeting schedule and review stakeholder list. Anticipate meeting date late January for first meeting.
- Chocolate Bayou stakeholder meeting being planned for February.

Task 3 Quality Assurance

- No updates.

Task 4 TSD for Halls Bayou Tidal

- Characterization report comments were addressed.
- LDCs are being created.

Task 5 TMDL Support for Chocolate Bayou Adoption

- Revised map set completed. Revising TMDL document and TSD with addressed changes to the maps.
- LDC being revised to adjust to revised watershed. TMDL calculations are being adjusted.
- Chocolate Bayou stakeholder meeting being planned for February.

Task 6 Watershed Characterization Report for Mustang Bayou

- No activities to report. Work on task will begin in January.

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- Minor tweak to TSD was made. Document resubmitted to TCEQ.
- Staff will be meeting to develop Oyster CC meeting schedule, review stakeholder list in December. Anticipate meeting date late January for first meeting.

Task 8 Support of Texas Stream Team Programs

- No activities to report.

Dec. 3rd – Dec. 7th:

Task 1 Project Administration

- **Anticipate Spend Down August 2019?:** Yes.

- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$180,000
- **Total Spent to Date: (Nov. 30, 2018)** \$49,470.30 **Remaining Budget Amount:** \$130,529.70

Task 2 Public Education and Outreach Activities

- Staff will be meeting in December to develop Oyster CC meeting schedule and review stakeholder list. Anticipate meeting date late January for first meeting.
- Chocolate Bayou stakeholder meeting being planned for February.

Task 3 Quality Assurance

- No updates.

Task 4 TSD for Halls Bayou Tidal

- Characterization report submitted to TCEQ PM.
- LDCs are being created.

Task 5 TMDL Support for Chocolate Bayou Adoption

- Revised map set completed. Revising TMDL document and TSD with addressed changes to the maps.
- LDC were revised to adjust to new watershed. TMDL calculations are being adjusted to reflect changes to the LDC.
- Chocolate Bayou stakeholder meeting being planned for February.

Task 6 Watershed Characterization Report for Mustang Bayou

- No activities to report. Work on task will begin in January.

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- Minor tweak to TSD was made. Document resubmitted to TCEQ.
- Staff will be meeting to develop Oyster CC meeting schedule and review stakeholder list. Anticipate meeting date late January for first meeting.

Task 8 Support of Texas Stream Team Programs

- Staff planning training schedule. TST training will be scheduled for Basin 11 and 13 in early summer.

Steven Johnston

Senior Planner

Community & Environmental Department | Houston-Galveston Area Council

3555 Timmons, Suite 120 Houston, TX 77027 | www.h-gac.com

832.681.2579 | 713.627.3200 | fax: 713.993.4503

steven.johnston@h-gac.com

<http://h-gac.com/community/water/tmdl/big/default.aspx>

Johnston, Steven

From: Johnston, Steven
Sent: Wednesday, October 31, 2018 1:41 PM
To: 'Jazmyn Milford'
Subject: Oyster Creek Presentation

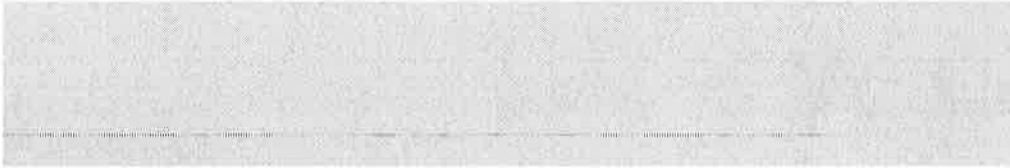
Jazmyn – you will find the presentation at the link provided below. I have included the meeting agenda as part of the presentation. Let me know what you think. And yes the maps are done so I am circling back to the TSD. I hope to get that to you soon.

Link: <https://h-gac.sharefile.com/d-s0b3a9effc4d4bd89>

Thanks,

Steve

Steven Johnston
Senior Planner
Community & Environmental Department | Houston-Galveston Area Council
3555 Timmons, Suite 120 Houston, TX 77027 | www.h-gac.com
832.681.2579 | 713.627.3200 | fax: 713.993.4503
steven.johnston@h-gac.com
<http://h-gac.com/community/water/tmdl/big/default.aspx>



San Jacinto – Brazos Coastal Basin: Public Outreach Report

Public Meeting 4

November 8, 2018

TABLE OF CONTENTS

I. OVERVIEW	2
II. PURPOSE	2
III. APPROACH	3
IV. NOTIFICATION	3
V. MATERIALS	3
VI. MEETING SYNOPSIS	3
VII. NEXT MEETING	5



I. OVERVIEW

Per Umbrella Contract 582-18-81222-04, the Texas Commission on Environmental Quality (TCEQ) requested Public Outreach support from the Houston-Galveston Area Council (H-GAC) for Basin 11, with activities for all elements of Public Outreach including, but not necessarily limited to:

- Identifying and Reserving Facilities for Meetings and / or Events;
- Providing a Facilitator for Any Meetings (As Needed);
- Providing Support for Organizing and Advertising Meetings and / or Events;
- Distribution and Posting of Meeting Agenda(s);
- Preparation of Meeting and / or Event Summaries;
- Preparation of Printed or Other Presentation Materials in Support of a Meeting and / or Event;
- Use of the H-GAC Website for Posting Meeting and / or Event Information; and
- Any Other Necessary Support Activities.

On November 8, 2018 (Public Meeting #4), H-GAC conducted a fourth public meeting to review the State's Basin Approach, general information on basin water quality, and current watershed planning in the basin. The focus of the meeting was to review Oyster Creek water quality data; information contained in the draft Technical Support Document, including load duration curves and TMDL calculations; initiated development of the Oyster Creek coordination committee and discussed next steps.

II. PURPOSE

The water bodies included in this analysis are all within Basin 11, which originates in Fort Bend and Harris Counties, transverses Harris, Brazoria and Galveston Counties before entering the Gulf of Mexico by way of Galveston Bay.

The Purpose of this public meeting was to discuss the following:

1. Review the purpose of the Basin Approach,
2. Present water quality management opportunities,
3. Review general conditions of water bodies in the basin,



4. Review Oyster Creek water quality, load duration curves, and TMDL information,
5. Initiate Chocolate Bayou Coordination Committee, and
6. Introduce the Coastal Communities Implementation Project.

III. **APPROACH and NOTIFICATION**

A list of stakeholders and interested parties was generated based on a survey initiated in FY 2016. The list has since been augmented following three previous public meetings, efforts to contact organizations and interest groups and private individuals. Identified stakeholders were then contacted directly via e-mail, phone and/or letter to notify them of the planned public meeting. Additionally, a broad net was cast via email and press release to a larger set of stakeholders and public to announce the public meeting. Announcement was placed on the H-GAC website. Additional meeting details; and meeting reminders were sent to the identified list of stakeholders.

IV. **MATERIALS**

The following materials were made available for the meeting:

1. Sign-In Sheet(s)
2. Watershed Map / Basin Map
3. Meeting Presentation

V. **MEETING SYNOPSIS**

Location

Lake Jackson Public Library
250 Circle Way
Lake Jackson, TX

When

Thursday, November 8, 2018
4 PM – 6 PM



Attendees

NAME	ORGANIZATION REPRESENTED	ASSUMED COUNTY?
Mike Mullenweg	Brazoria County - Parks	Brazoria
Terry Novak	Angleton Drainage District	Brazoria
John Conciene	LJA Engineering	Jefferson
Dude Payne	Brazoria County – Pct. 1	Brazoria
Joshua Sills	Jones and Carter	Fort Bend
Bill Carter	TCEQ – Nonpoint Source Program	Travis
Jazmyn Milford	TCEQ – TMDL Program	Travis

To view the sign-in sheet in its entirety, please see Attachment A.

Meeting Summary

Mr. Steven Johnston from H-GAC provided a presentation that included an agenda, reviewed the Basin Approach, status of water quality found in the basin, current bacteria impairments, and water quality management planning options. Mr. Johnston focused his presentation on data specific to the Oyster Creek watershed and information contained in the draft Oyster Creek Technical Support Document. Attendees were then provided a presentation by Becki Begley on the Coastal Communities project implementing nonpoint source outreach and information to non-municipal separate storm sewer systems.

- VI. NEXT MEETING**
To Be Determined.

OYSTER CREEK WATERSHED TMDL PROJECT

November 8, 2018

Stewart Johnston





Meeting Agenda

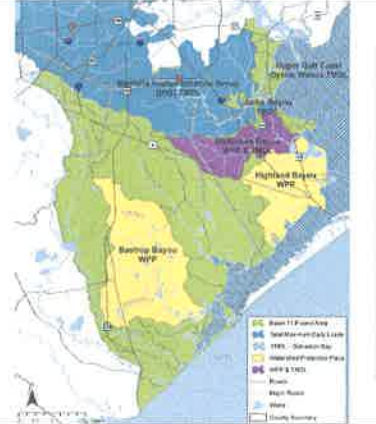
- * 4:00 – 4:05 Welcome – Open Meeting
- * 4:05 – 4:50 Review Oyster Creek Project Results
- * 4:50 – 5:19 Forming a Coordination Committee – Discussion
- * 5:10 – 5:20 Wrap Up and Next Steps
- * 5:20 – 5:40 Coastal Communities Project
- * 5:40 – 6:00 Open Q&A / Adjourn

Why Are We Here?


Portions of Oyster Creek do not meet the State's Water Quality Standards for Contact Recreation.



Watershed Based Plans



OYSTER CREEK WATERSHED

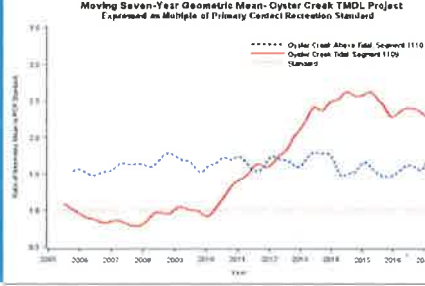


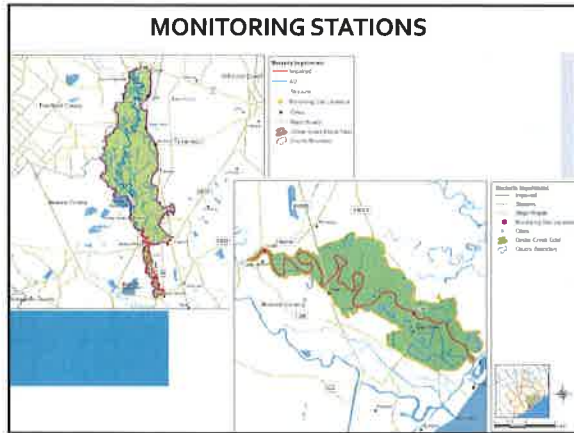
Bacteria Impairments

- Impaired
- AD
- BEAMS
- Cities
- Major Roads
- Oyster Creek Above Tidal
- Oyster Creek Total
- County Boundary

Bacteria Trends

Moving Seven-Year Geometric Mean - Oyster Creek TMDL Project Expressed as Multiple of Primary Contact Recreation Standard

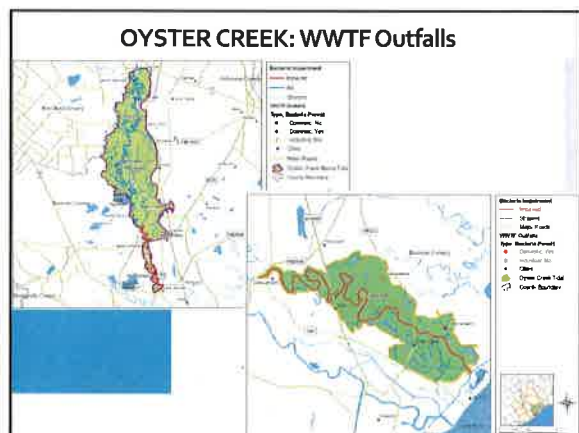
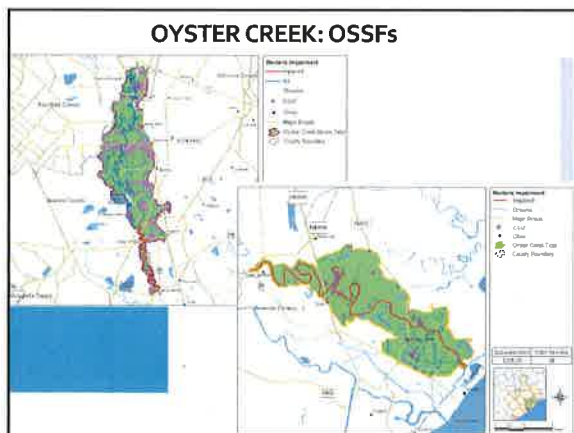


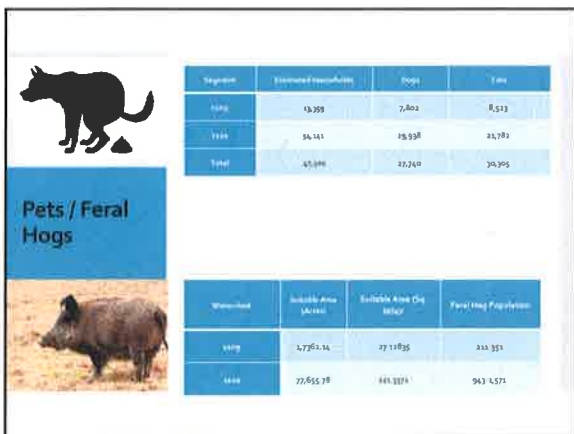
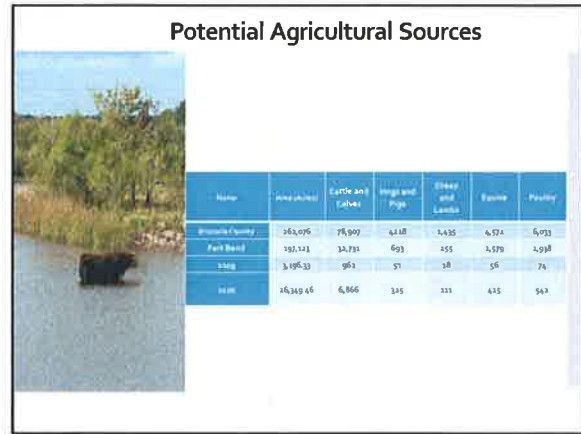
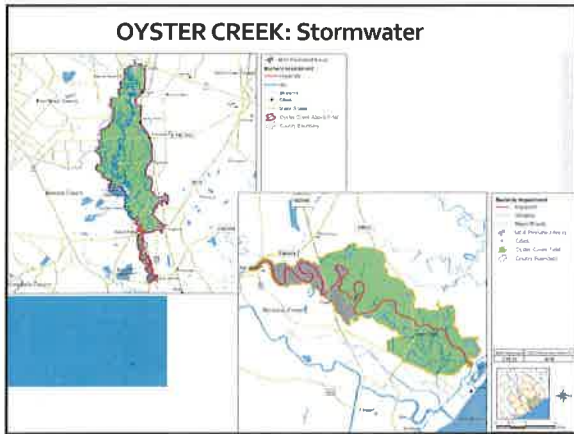


Possible Sources of Bacteria

- Domestic pets (dogs, cats)
- Leaking wastewater infrastructure
- Wildlife (deer, bird, raccoon, etc.)
- Onsite Sewage Treatment
- Urban lawns and landscaping
- Streets and parking lots
- Agriculture/Pasture

Basin Data





Determining Pollutant Loadings – LDC Approach

- Load Duration Curve (LDC) Method Used
- Method is widely accepted by EPA and Texas for development of bacteria WBPs
- Modification of LDCs for tidal streams pioneered by State of Oregon and being used in Texas for TMDL development.
- TMDLs adopted by TCEQ and approved by EPA in 2016 for Tidal segments of Mission & Aransas Rivers used Modified FDCs/LDCs

LDC Development Requires

- streamflow data,
- bacteria (Enterococci & *E. coli*) data,
- salinity data (for Modified Approach)
- the relevant bacteria criterion


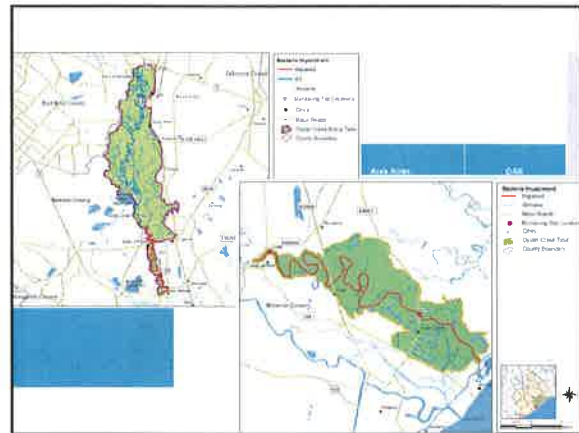
Steps to Develop LDCs

1. Calculate daily freshwater using drainage area ratio approach
2. Develop FDCs, including seawater contribution (for each tidal station)
3. Develop LDCs (allowed loadings)
4. Estimate existing loading from measured bacteria data

First Step

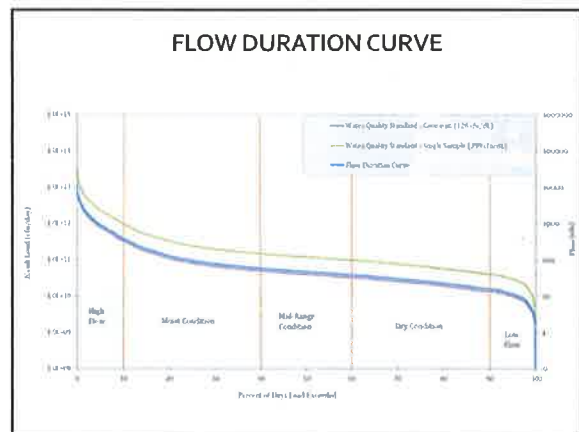
Develop a daily streamflow record (typically 10 to 20 years of data)

- No long term flow in Oyster Creek. New height level gauge at Station 11491 (Feb 2017 – Aug 2017)
- Nearby U.S. Geological Survey flow gauge station: Chocolate Bayou
- Selected U.S. Geological Survey gage 08078000
- Flow record period: 1/1/2004 – 12/31/2017

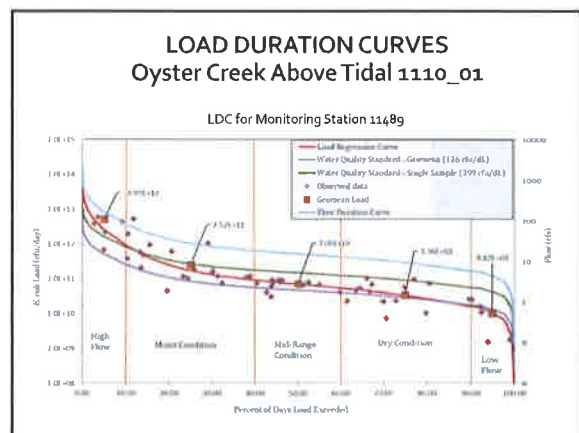
Second Step: Flow Duration Curves

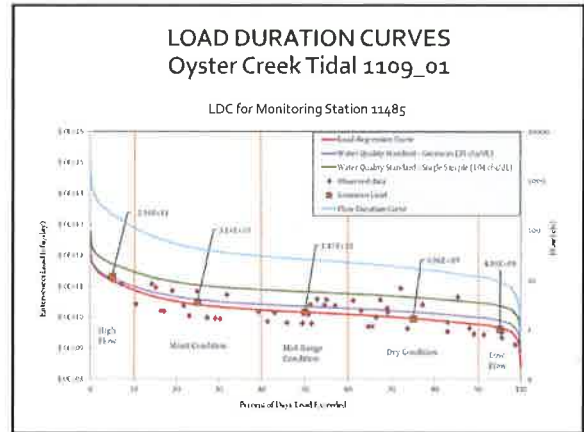
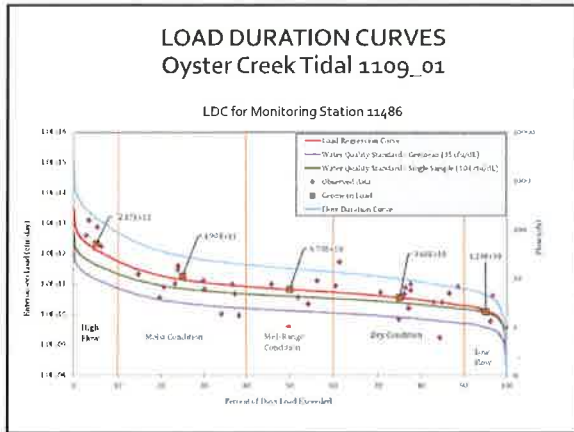
- Daily record of streamflow data ranked highest to lowest to give a flow duration curve.
- Develop relationship of measured surface salinities to streamflows from FDCs



Third / Fourth Steps: Load Duration Curves

- Third Step (Allowable Load): The existing Enterococci (or *E. coli*) criterion is multiplied by the flow on each day and the appropriate conversion factor to give units of MPN/day.
- Standard Curves are calculated using primary contact recreation use protective criteria as geometric mean and single sample:
 - Tidal geometric mean criterion = 35 MPN/100 mL of Enterococci
 - Tidal single sample criterion = 104 MPN/100 mL of Enterococci
 - Freshwater geometric mean criterion = 126 MPN/100 mL of *E. coli*
 - Freshwater single sample criterion = 399 MPN/100 mL of *E. coli*
- Fourth Step (Existing Load): Measured bacteria multiplied by the flow on the day measured.





BACTERIA REDUCTION

Flow Condition	Exceedence Range	1099		1008	
		Enterococci		E. coli	
		35 MPN/100mL		116 MPN/100 mL	
		Geometric Mean (MPN/100mL)	Required Percent Reduction	Geometric Mean (MPN/100mL)	Required Percent Reduction
High Flow	(10-100M)	113.81	89.45%	679.44	81.45%
Mean	(10-40M)	209.78	81.21%	270.53	53.44%
Mid-Range	(10-60M)	875.83	80.01%	189.01	33.34%
Dry	(60-20M)	113.77	77.05%	144.57	13.95%
Low Flow	(20-100M)	112.58	70.58%	89.50	0.00%

TMDL

TMDL = WLA (WLA₁₀₉₉ and WLA₁₀₀₈) + LA + FG + MOS

Draft TMDL TSD - (Preliminary)

St.	LR	TMDL ₁₀₉₉ (log MPN/100mL)	TMDL ₁₀₀₈ (log MPN/100mL)	LA ₁₀₉₉ (log MPN/100mL)	LA ₁₀₀₈ (log MPN/100mL)	FG ₁₀₉₉ (log MPN/100mL)	FG ₁₀₀₈ (log MPN/100mL)
1148_01	Enterococci	344.68	1.69	9.29	1.87	116.33	5.50
1148_01	E. coli	495.79	24.79	33.15	18.06	199.03	18.96

What's a Coordination Committee?

A proactive group of local and regional stakeholders helping to create and drive content for the TMDL and/or WPP documents.

Basin 13 Meeting - Carey Creek | December 7, 2017

- ## Role of the Coordination Committee
-
- Attend Public Meetings
 - Provide Input on Priorities for the Watershed
 - Participate in Work Groups
 - Identify Appropriate Management Measures
 - Act as Community Ambassadors
 - Provide Input on Documents & Reports
- Basin 13 Meeting - Carey Creek | December 7, 2017

What are Management Measures?

Existing measures are a menu of voluntary strategies stakeholders can use to reduce bacteria levels in Oyster Creek.

Bain 13 Meeting - Oyster Creek (December 2, 2019)

Group Discussion

(1) POTENTIAL INTERESTS

- Citizens
- Education
- Environmental Groups
- Government Interest
- Industry and Business
- Park/J Preservation
- Resource Agency
- Watersheds
- Wetland
- Others?

(2) NUMBER OF REPRESENTATIVES

- Ideal size of the committee?
- Other committees range from 3 members to 25.
- Number should be fairly distributed by interest.

(3) PROCESS TYPES

<p>FORMAL</p> <ul style="list-style-type: none"> • Formal nominations • Recorded votes • Written rules of order 	<p>INFORMAL</p> <ul style="list-style-type: none"> • Informal nominations • Consensus based • Ground rules
---	--

(4) MISSING PIECES

- Who should be here that isn't?
- Are we missing major industry or stakeholder groups?

Bain 13 Meeting - Oyster Creek (December 2, 2019)

Coordination Committee Decision Process

FORMAL	INFORMAL
---------------	-----------------

- ▶ Establish bylaws that govern the actions of the committee
- ▶ Adhere to Open Meeting Act Requirements

- ❖ Develop a set of ground rules that will be used to govern the committee
- ❖ Committee members approve ground rules and their use

Implementation: Workshops, Training and Resources



Texas Stream Team Training - February 2018

Texas Watershed Stewards Training/July 11, 2017




Implementation: Outreach and Education

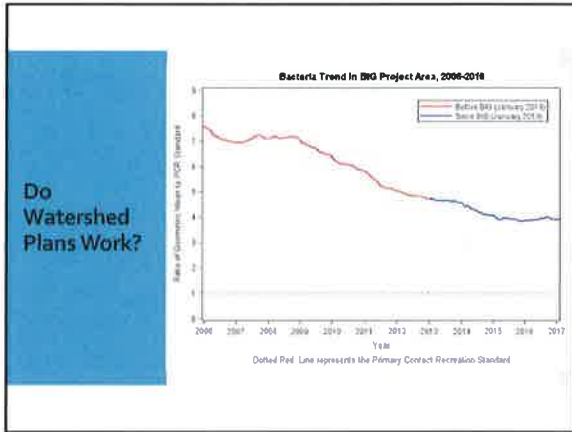



<https://coastalcommunitiestx.weebly.com/materials.html>

Next Steps in the TMDL/WPP Process



- Coordination Committee (CC) – Discuss TMDL/WPP Measures (January 2019)
- H-GAC Drafts Reduction Measures (February 2019)
- CC – Reviews Draft Measures (March 2019)
- H-GAC Drafts TMDL / WPP (April 2019)
- CC – Reviews Draft Plan (May 2019)
- TMDL/WPP Draft Submitted to TCEQ (June 2019)



Thank You!

Steven Johnson
Kodi Johnson
Steven.johnson@tceq.com

457C TCEQ



Houston-Galveston Area Council

March 17, 2019

Jazmin Milford (MC 203)
TMDL Project Manager
Water Quality Division
Texas Commission on Environmental Quality
12100 Park 35 Circle, Bldg. F
Austin, Texas 78753

RE: March 2019 Progress Report for Contract 582-18-81222, Work Order 4, Basin 11.

Dear Ms. Milford:

Enclosed is one (1) copy of the FY 2019 2nd Progress Report for Contract No. 582-18-81222-4. It covers all deliverable/task activities for the project period December 1, 2018 through February 28, 2019. Financial Statements, HUB report and Voucher will be submitted separately.

Included in this Report are:

1. One copy of the progress report for December 1, 2018 thru February 28, 2019.
2. Copies of meeting summaries and other pertinent materials from project related meetings.

We hope you find the quarterly report satisfactory. Any comments you have will be appreciated. If you have any questions, please contact me by phone (713-993-4549) or E-mail (todd.running@h-gac.com).

Sincerely,

Todd Running
Water Resources Program Manager
Community & Environmental Planning Dept.

CC Jason Leifester
Chis Loft

TR/srj
Enclosures

**TMDL Program
FY 2019 2nd Progress Report**

Date: March 17, 2019

Time Period Covered: 12/01/2018 – 02/28/2019

Name of Project: Basin Approach to Address Bacterial Impairments in the San Jacinto – Brazos Coastal Basin (Basin 11)

Contract No./Work Order 582-18-81222-04

TASK #1. PROJECT ADMINISTRATION

Deliverable(s)	Due Date	Status
List all deliverables under the task described above	List the due dates for each deliverable	If the deliverable has been completed, enter the date submitted to the TCEQ. If the deliverable has not been completed, briefly describe the status of each deliverable.
Quarterly/Monthly Progress Report	March 15, 2019	Monthly report for Work Order submitted electronically on March 17, 2019
Invoice	December 15, 2018	Invoices will be submitted under another cover.
Project Updates	Weekly	Provided for December 2018 thru Feb.2019.

Work Performed This Period – detail all activities for this task and briefly describe the progress on each deliverable:

Work performed for this task during this period included writing and assembling the monthly report. Copies of weekly emails are attached. Staff worked with TCEQ PM and Team Leader to develop the FY2020 draft WO and budget.

TASK #2. PUBLIC EDUCATION AND OUTREACH

Deliverable(s)	Due Date	Status
List all deliverables under the task described above	List the due dates for each deliverable	If the deliverable has been completed, enter the date submitted to the TCEQ. If the deliverable has not been completed, briefly describe the status of each deliverable.
Development of meeting materials (Task 2.1)	Invitation letters, emails, press releases, and informational materials announcing meeting/event.	An Oyster Creek stakeholder kickoff meeting was held on January 29, 2019. Meeting announcements, press releases, and emails were prepared within a month prior to meeting. Materials shared with TCEQ prior to sending out to stakeholders.
Host two or more watershed stakeholder meetings (Task 2.2)	As needed	<ul style="list-style-type: none"> • A public meeting was held on November 14, 2018. • Oyster Creek stakeholder meeting was held on January 29, 2019.
Copies of agendas and presentations for meetings (Task 2.3)	Due 2 weeks before distribution	Agenda incorporated within presentation. Meeting announcements and email to targeted individuals/organizations included. Draft presentation shared with TCEQ on 1/22/2019.
Summary of meetings (Task 2.4)	Within 2 weeks after meetings	A brief summary was included with the weekly report. Full summary included with this report.
List of general stakeholders (Task 2.5)	Maintain and update as appropriate. Provide to TCEQ when requested.	Maintained and updated.
Facilitate delivery of Education programs (Task 2.6)	One or more during work order period.	No Update.
Public participation/outreach summaries (Task 2.7)	With PRs	Provided in discussion below.

Work Performed This Period – detail all activities for this task and briefly describe the progress on each deliverable:

Work related to this task focused on planning for the Oyster Creek stakeholder meeting held on January 29, 2019 at the Lake Jackson Public Library in Lake Jackson, TX. This included: (Copies of the meeting materials and meeting summary attached to this report)

- Updating potential stakeholder contact information
- Identifying and scheduling a meeting location
- Drafting meeting announcement and press release
- Emailing meeting announcement and press release and follow-up
- Creating the meeting agenda and presentation

Prior to the meeting, special attention was made to reach out to wastewater permit holders. Targeted letters, email and phone calls were made to encourage participation and to serve notice that H-GAC and TCEQ would be working to address bacteria in the Oyster Creek watershed. Staff also communicated with a reported with the Brazoria County Facts. Copies of press articles were provided via email to the TCEQ PM.

January 29, 2019 – twenty-four stakeholders attended the public meeting. H-GAC provided a presentation that covered Oyster Creek water quality impairments, bacteria sources, load duration curves, TMDL load allocations, and types of watershed-based plans. The attendees discussed what this means to them, opportunities to participate in development of a watershed-based plan, identify management measures, and current implementation underway

Outreach: Staff have been working with Brazosport College on several outreach topics. The college provides continuing education to the community and is interested in some of the programs that H-GAC provides. Staff is working to schedule TST and OSSF education. TST workshop will be held with the college on May 11, 2019.

Staff began during this report period to coordinate internally on a new effort to reach local governments and permittees. H-GAC is calling it the Leadership Forum. The first forum is being rolled out in Basin 13. Staff will be targeting Basin 11 next. Likely in May. The goal of the forum is to provide an opportunity for stakeholders that lack the time to meet on the smaller watershed level to meet a couple of times a year and review and provide feedback on draft watershed-based plans. In addition, the forum will be used to consider funding and implementation opportunities.

TASK #3 DEVELOP OR UPDATE QAPPs FOR ACQUIRED DATA AND MONITORING DATA

Deliverable(s)	Due Date	Status
List all deliverables under the task described above	List the due dates for each deliverable	If the deliverable has been completed, enter the date submitted to the TCEQ. If the deliverable has not been completed, briefly describe the status of each deliverable.
Acquired Data QAPP Amendments (Task 3.1)	As needed.	None required.
Acquired Data QAPP Update (Task 3.2)	As needed	Annual update for FY2018 submitted to TCEQ in early September. Approval made in October.
QAPP CARs (Task 3.3)	As needed	None required.
Quality assurance audits (Task 3.4)	Will participate as needed	None required for the quarter.

Work Performed This Period

No work related to this task were performed during this reporting period.

TASK #4 TECHNICAL SUPPORT DOCUMENT FOR HALLS BAYOU

Deliverable(s)	Due Date	Status
List all deliverables under the task described above	List the due dates for each deliverable	If the deliverable has been completed, enter the date submitted to the TCEQ. If the deliverable has not been completed, briefly describe the status of each deliverable.
Draft TSD for Halls Bayou (Task 4.1)	January 15, 2019	Staff completed the draft TSD and submitted to the TCEQ on 1/15/2019.
Final TSD for Halls Bayou	Within two weeks of receipt of TCEQ comments on draft.	Received comments on 2/28/2019.

Work Performed This Period – detail all activities for this task and briefly describe the progress on each deliverable:

H-GAC completed the draft Halls Bayou TSD during this reporting period. H-GAC will be to revise the document based on comments during the next reporting period.

TASK #5 TMDL SUPPORT FOR CHOCOLATE BAYOU ADOPTION

Deliverable(s)	Due Date	Status
List all deliverables under the task described above	List the due dates for each deliverable	Final progress report and evaluation submitted to TCEQ
TMDL support (Task 5.1)	As needed	Modifying the TSD and TMDL.

Work Performed This Period – detail all activities for this task and briefly describe the progress on each deliverable:

Staff spent the reporting period adjusting the flow calculations for Chocolate Bayou. One TCEQ comment suggested that H-GAC needed to adjust for out-of-watershed effluent/return flow (WWTFs, irrigation) to develop a natural stream flow. Once the flow is corrected, it would be used to estimate flow in the tidal AU and in other TMDL projects that use Chocolate Bayou for estimating flow using the drainage area ratio. This task was completed during the reporting period. Staff will make the revisions to the TMDL calculations, LDCs and update the TMDL and TSD documents.

TASK #6 WATERSHED CHARACTERIZATION REPORT FOR MUSTANG BAYOU

Deliverable(s)	Due Date	Status
List all deliverables under the task described above	List the due dates for each deliverable	Final progress report and evaluation submitted to TCEQ
Draft Characterization Report (Task 6.1)	June 15, 2019	Work commenced to gather data and information on Mustang Bayou.
Final Characterization Report (Task 6.2)	Within two weeks of receipt of TCEQ comments on draft.	No progress.

Work Performed This Period – detail all activities for this task and briefly describe the progress on each deliverable:

Staff began to gather data and information for use in the characterization report.

TASK #7 TMDL AND DEVELOPMENT OF SPECIFIC KEY ELEMENTS FOR A WPP FOR OYSTER CREEK

Deliverable(s)	Due Date	Status
List all deliverables under the task described above	List the due dates for each deliverable	Final progress report and evaluation submitted to TCEQ
Draft Oyster Creek TMDL (Task 7.1)	June 1, 2019	No progress reported.
Oyster Creek Work Group Meetings (Task 7.2)	One to four, as needed.	Staff began to plan for the first coordination committee meeting – March 12, 2019.
Final Oyster Creek TMDL and Key Elements WPP	Two weeks after receipt of TCEQ comments.	No progress reported.

Work Performed This Period – detail all activities for this task and briefly describe the progress on each deliverable:

Staff scheduled the first Oyster Creek Coordination Committee meeting on March 12, 2019 at the Lake Jackson Public Library in Lake Jackson. Staff contacted stakeholders that were interested in the process either identified at the January 29, 2019 Oyster Creek meeting, previous Basin 11 public meetings or responded to press articles concerning the project. Staff began to prepare for the meeting during this report period.

Staff are also preparing to update the TMDL and LDCs to address the impact of effluent contributions on the monitored flow recorded at the USGS station on Chocolate Bayou. Those contributions from WWTFs and agricultural sources in Chocolate Bayou could impact the “natural flow” derivation used to estimate the flow in Oyster Creek. Additionally, EIH has maintained the height gauge on Oyster Creek since 2017. The flow curve developed using this water level gauge should be more accurate with the additional 1.5 years of data to inform it. This will assist in creating more accurate LDCs. We will update the TSD and use the new information in the TMDL document.

TASK #8 SUPPORT OF TEXAS STREAM TEAM PROGRAMS

Deliverable(s)	Due Date	Status
List all deliverables under the task described above	List the due dates for each deliverable	Final progress report and evaluation submitted to TCEQ
Organize trainings and provide monitoring kits (Task 8.1)	Provide summaries with PRs	No progress reported in this quarter.
Target volunteer efforts (Task 8)	Provide summaries with PRs	No progress in this quarter.

Work Performed This Period – detail all activities for this task and briefly describe the progress on each deliverable:

Staff have been working with Brazosport College on several outreach topics. The college provides continuing education to the community and is interested in some of the programs that H-GAC provides. H-GAC has scheduled a TST workshop with the college on May 11, 2019.

PROJECT RELATED MEETINGS, WORKSHOPS, TRAINING OR EVENTS

- 1) Presentations:
 - a. February 6, 2019 – Staff presented at H-GAC’s Natural Resource Advisory Committee meeting on Basin 11 and 13 projects. Presentation attached.
- 2) Meetings, Events and Conferences:
 - a. December 17, 2018 – staff attended Implementing Watershed Plans Training hosted by TWRI in College Station.
 - b. February 19, 2019 – staff led the Coastal Communities’ Regional Stormwater Quality Education Workgroup in Alvin.
 - c. June 12, 2019 - Staff continue to meet with TX AgriLife collaborate on a green infrastructure workshop for Basin 11 in Pearland.
- 3) Associated Implementation Projects and Programs
 - a. H-GAC’s OSSF SEP is continues to work in the area. Two repair/replace projects are planned for the community of Holiday Lakes on Oyster Creek.
 - b. Staff are coordinating with a Coastal Communities project supported by the TCEQ 319 Program. Focus of the project is to provide stormwater outreach materials to local governments/political subdivisions in the coastal zone that do not have a MS4 permit. Work under this grant has led to coordination with Brazosport College to bring TST and OSSF training and outreach to the communities in south Brazoria County. Also, H-GAC has received local contributions from DOW and Olin companies to support this effort. This will result in the purchase of 25 pet waste stations for Lake Jackson (15) and Brazosport College (10) for community parks. Additional funds will be spent on OSSF repair/replace and pump outs.

BRIEF DESCRIPTION OF OVERALL FINDINGS:

Work for this period focused on developing the Oyster Creek Coordination Committee. One meeting was held on January 29, 2019. Staff also began preparations for the next meeting scheduled for March 12, 2019. In addition, staff continued to address revisions to TMDL calculations and LDCs due to updates to the flow estimates for Chocolate. Chocolate Bayous flow is used to estimate Chocolate Bayou Tidal, Halls Bayou and Oyster Creek. All three TMDLs will be adjusted to account for this. The TMDL document and TSD will be revised in the next period.

Significant Problems (describe any scheduling shortfalls, detail significant problems and how these problems were resolved, etc.):

No significant problems were encounter this quarter.

Johnston, Steven

From: Johnston, Steven
Sent: Wednesday, December 12, 2018 5:06 PM
To: 'Jazmyn Milford'
Cc: 'Chris Loft'; 'Jason Leifester (Jason.leifester@tceq.texas.gov)'
Subject: FY 19 WO #4 Weekly Reports (Nov 26 - Nov 30) and (Dec 3 - Dec 7)

Good Afternoon, Jazmyn – Below you will find the weekly reports for Work Order #4 under 582-18-81222. Please let me know if you have any questions.

Nov. 26th – Nov. 30th:

Task 1 Project Administration

- **Anticipate Spend Down August 2019?:** Yes.
- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$180,000
- **Total Spent to Date: (Oct. 31, 2018)** \$31,099.85 **Remaining Budget Amount:** \$148,900.15

Task 2 Public Education and Outreach Activities

- Staff will be meeting in December to develop Oyster CC meeting schedule and review stakeholder list. Anticipate meeting date late January for first meeting.
- Chocolate Bayou stakeholder meeting being planned for February.

Task 3 Quality Assurance

- No updates.

Task 4 TSD for Halls Bayou Tidal

- Characterization report comments were addressed.
- LDCs are being created.

Task 5 TMDL Support for Chocolate Bayou Adoption

- Revised map set completed. Revising TMDL document and TSD with addressed changes to the maps.
- LDC being revised to adjust to revised watershed. TMDL calculations are being adjusted.
- Chocolate Bayou stakeholder meeting being planned for February.

Task 6 Watershed Characterization Report for Mustang Bayou

- No activities to report. Work on task will begin in January.

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- Minor tweak to TSD was made. Document resubmitted to TCEQ.
- Staff will be meeting to develop Oyster CC meeting schedule, review stakeholder list in December. Anticipate meeting date late January for first meeting.

Task 8 Support of Texas Stream Team Programs

- No activities to report.

Dec. 3rd – Dec. 7th:

Task 1 Project Administration

- **Anticipate Spend Down August 2019?:** Yes.

- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$180,000
- **Total Spent to Date: (Nov. 30, 2018)** \$49,470.30 **Remaining Budget Amount:** \$130,529.70

Task 2 Public Education and Outreach Activities

- Staff will be meeting in December to develop Oyster CC meeting schedule and review stakeholder list. Anticipate meeting date late January for first meeting.
- Chocolate Bayou stakeholder meeting being planned for February.

Task 3 Quality Assurance

- No updates.

Task 4 TSD for Halls Bayou Tidal

- Characterization report submitted to TCEQ PM.
- LDCs are being created.

Task 5 TMDL Support for Chocolate Bayou Adoption

- Revised map set completed. Revising TMDL document and TSD with addressed changes to the maps.
- LDC were revised to adjust to new watershed. TMDL calculations are being adjusted to reflect changes to the LDC.
- Chocolate Bayou stakeholder meeting being planned for February.

Task 6 Watershed Characterization Report for Mustang Bayou

- No activities to report. Work on task will begin in January.

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- Minor tweak to TSD was made. Document resubmitted to TCEQ.
- Staff will be meeting to develop Oyster CC meeting schedule and review stakeholder list. Anticipate meeting date late January for first meeting.

Task 8 Support of Texas Stream Team Programs

- Staff planning training schedule. TST training will be scheduled for Basin 11 and 13 in early summer.

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<http://h-gac.com/community/water/tmdl/big/default.aspx>

Johnston, Steven

From: Johnston, Steven
Sent: Wednesday, December 19, 2018 5:06 PM
To: 'Jazmyn Milford'
Cc: 'Chris Loft'; 'Jason Leifester (Jason.leifester@tceq.texas.gov)'
Subject: FY 19 WO #4 Weekly Report (Dec 10 - Dec 14)

Good Afternoon, Jazmyn – Below you will find the weekly report for Work Order #4 under 582-18-81222. Please let me know if you have any questions.

Dec. 10th – Dec. 14th:

Task 1 Project Administration

- **Anticipate Spend Down August 2019?:** Yes.
- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$180,000
- **Total Spent to Date: (Nov. 30, 2018) \$49,470.30 Remaining Budget Amount: \$130,529.70**
- Submitted Progress Report #1 to TCEQ PM.

Task 2 Public Education and Outreach Activities

- Staff met to develop Oyster CC meeting schedule and review stakeholder list. Researching available venues for the first CC meeting. Anticipate meeting date late January/early February.
- Chocolate Bayou stakeholder meeting being planned for February. Researching venues.

Task 3 Quality Assurance

- No updates.

Task 4 TSD for Halls Bayou Tidal

- Characterization report approved.
- LDCs are being created.

Task 5 TMDL Support for Chocolate Bayou Adoption

- Revised map set completed. Revising TMDL document and TSD with addressed changes to the maps.
- LDC were revised to adjust to new watershed. TMDL calculations are being adjusted to reflect changes to the LDC.
- Chocolate Bayou stakeholder meeting being planned for February.

Task 6 Watershed Characterization Report for Mustang Bayou

- No activities to report. Work on task will begin in January.

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- TSD Document resubmitted to TCEQ.
- Staff will be meeting to develop Oyster CC meeting schedule and review stakeholder list. Anticipate meeting date late January/early February for first meeting.

Task 8 Support of Texas Stream Team Programs

- Staff planning training schedule. TST training will be scheduled for Basin 11 and 13 in early summer.

Have a wonderful Christmas Break!

Thanks,

Steve

Steven Johnston
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<http://h-gac.com/community/water/tmdl/big/default.aspx>

Johnston, Steven

From: Johnston, Steven
Sent: Wednesday, December 26, 2018 6:17 PM
To: 'Jazmyn Milford'
Cc: 'Chris Loft'; 'Jason Leifester (Jason.leifester@tceq.texas.gov)'
Subject: FY 19 WO #4 Weekly Report (Dec 17 - Dec 21)

Good Afternoon, Jazmyn – Below you will find the weekly report for Work Order #4 under 582-18-81222. Please let me know if you have any questions. **Please note potential dates for meetings, below. Please let me know if these will work.**

Dec. 17th – Dec. 21st:

Task 1 Project Administration

- **Anticipate Spend Down August 2019?:** Yes.
- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$180,000
- **Total Spent to Date: (Nov. 30, 2018) \$49,470.30 Remaining Budget Amount: \$130,529.70**

Task 2 Public Education and Outreach Activities

- Staff met to develop Oyster CC meeting schedule and review stakeholder list. Researching available venues for the first CC meeting. Anticipate meeting date late January/early February.
Potential Date: 1st meeting January 29th, 2019 2-4 Lake Jackson.
2nd meeting March 12, 2019 2-4 Lake Jackson.
- Chocolate Bayou stakeholder meeting being planned for February. Researching venues.
Potential Date: March 20, 2019, 2-4 Alvin.

Task 3 Quality Assurance

- No updates.

Task 4 TSD for Halls Bayou Tidal

- LDCs were completed.
- Calculating TMDL.

Task 5 TMDL Support for Chocolate Bayou Adoption

- Revised map set completed. Revising TMDL document and TSD with addressed changes to the maps.
- TMDL calculations have been adjusted to reflect changes to the LDC.
- Chocolate Bayou stakeholder meeting potentially March 20, 2019.

Task 6 Watershed Characterization Report for Mustang Bayou

- No activities to report. Work on task will begin in January.

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- TSD Document resubmitted to TCEQ.
- Staff will be meeting to develop Oyster CC meeting schedule and review stakeholder list. Anticipate meeting date late January/early February for first meeting.

Task 8 Support of Texas Stream Team Programs

- Staff planning training schedule. TST training will be scheduled for Basin 11 and 13 in early summer.

Thanks,

Steve

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<http://h-gac.com/community/water/tmdl/big/default.aspx>

Johnston, Steven

From: Johnston, Steven
Sent: Monday, December 31, 2018 3:35 PM
To: 'Jazmyn Milford'
Cc: 'Chris Loft'; 'Jason Leifester (Jason.leifester@tceq.texas.gov)'
Subject: FY 19 WO #4 Weekly Report (Dec 24 - Dec 28)

Good Afternoon, Jazmyn – Below you will find the weekly report for Work Order #4 under 582-18-81222. Please let me know if you have any questions.

Please note potential dates for meetings, below. Please let me know if these will work.

I will be out of the office from 1/2/19 to 1/8/19. I will check my email sporadically.

Dec. 24th – Dec. 28th:

Task 1 Project Administration

- **Anticipate Spend Down August 2019?:** Yes.
- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$180,000
- **Total Spent to Date: (Nov. 30, 2018)** \$49,470.30 **Remaining Budget Amount:** \$130,529.70

Task 2 Public Education and Outreach Activities

- Staff met to develop Oyster CC meeting schedule and review stakeholder list. Researching available venues for the first CC meeting. Anticipate meeting date late January/early February.
Potential Date: 1st meeting January 29th, 2019 2-4 Lake Jackson.
2nd meeting March 12, 2019 2-4 Lake Jackson.
- Chocolate Bayou stakeholder meeting being planned for February. Researching venues.
Potential Date: March 20, 2019, 2-4 Alvin.

Task 3 Quality Assurance

- No updates.

Task 4 TSD for Halls Bayou Tidal

- Calculating TMDL.
- Drafting TSD.

Task 5 TMDL Support for Chocolate Bayou Adoption

- Continued to revise TMDL document and TSD.
- Chocolate Bayou stakeholder meeting potentially March 20, 2019.

Task 6 Watershed Characterization Report for Mustang Bayou

- No activities to report. Work on task will begin in January.

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- TCEQ provided additional comments to the TSD. Began to review and address.
- Staff discussed comments that might affect flow. Staff will review method and consider response to TCEQ. Response will come likely the week of Jan. 7th.

- Potential meeting dates submitted to TCEQ PM for approval.

Task 8 Support of Texas Stream Team Programs

- Staff planning training schedule. TST training will be scheduled for Basin 11 and 13 in early summer.

Thanks,

Steve

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Johnston, Steven

From: Johnston, Steven
Sent: Monday, January 14, 2019 4:37 PM
To: 'Jazmyn Milford'
Cc: 'Chris Loft'; 'Jason Leifester (Jason.leifester@tceq.texas.gov)'
Subject: FY 19 WO #4 Weekly Reports (Dec 31 - Jan 4) and (Jan 7 - Jan 11)

Good Afternoon, Jazmyn – Below you will find the weekly reports for Work Order #4 under 582-18-81222. Please let me know if you have any questions.

Dec. 31st – Jan. 4th:

Task 1 Project Administration

- **Anticipate Spend Down August 2019?:** Yes.
- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$180,000
- **Total Spent to Date: (Nov. 30, 2018)** \$49,470.30 **Remaining Budget Amount:** \$130,529.70

Task 2 Public Education and Outreach Activities

- Staff planning first CC meeting in January. A second meeting will be held in March. Confirmed meeting location. TCEQ approved date.
Dates: 1st meeting January 29th, 2019 2-4 Lake Jackson Public Library.
2nd meeting March 12, 2019 2-4 Lake Jackson.
- Chocolate Bayou stakeholder meeting being planned for March Researching venues.
March 20, 2019, 2-4 Alvin – Brazoria County Public Library.

Task 3 Quality Assurance

- No updates.

Task 4 TSD for Halls Bayou Tidal

- Draft TMDL calculations completed.
- Drafting TSD.

Task 5 TMDL Support for Chocolate Bayou Adoption

- Continued to revise TMDL document and TSD.
- Chocolate Bayou stakeholder meeting potentially March 20, 2019.

Task 6 Watershed Characterization Report for Mustang Bayou

- No activities to report. Work on task will begin in January.

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- TCEQ provided additional comments to the TSD. Staff continue to review and address.
- Staff discussed comments that might affect flow. Staff are reviewing method and consider response to TCEQ.
- Potential meeting dates approved by TCEQ PM.

Task 8 Support of Texas Stream Team Programs

- Staff planning training schedule. TST training will be scheduled for Basin 11 and 13 in early summer.

Jan. 7th – Jan. 11th:

Task 1 Project Administration

- **Anticipate Spend Down August 2019?:** Yes.
- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$180,000
- **Total Spent to Date: (Nov. 30, 2018)** \$49,470.30 **Remaining Budget Amount:** \$130,529.70

Task 2 Public Education and Outreach Activities

- Staff planning first CC meeting in January. A second meeting will be held in March. Confirmed meeting location. TCEQ approved date.
Dates: 1st meeting January 29th, 2019 2-4 Lake Jackson Public Library.
2nd meeting March 12, 2019 2-4 Lake Jackson.
- Chocolate Bayou stakeholder meeting being planned for March Researching venues.
March 20, 2019, 2-4 Alvin – Brazoria County Public Library.

Task 3 Quality Assurance

- No updates.

Task 4 TSD for Halls Bayou Tidal

- Drafting TSD.

Task 5 TMDL Support for Chocolate Bayou Adoption

- Continued to revise TMDL document and TSD.
- Chocolate Bayou stakeholder meeting potentially March 20, 2019.

Task 6 Watershed Characterization Report for Mustang Bayou

- No activities to report. Work on task will begin in January.

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- TCEQ provided additional comments to the TSD. Staff continue to review and address.
- Staff reviewing TSD to evaluate and draft conclusion on the question of double counting.
- Staff discussed comments that might affect flow. Staff are reviewing method.
- Potential meeting dates approved by TCEQ PM.

Task 8 Support of Texas Stream Team Programs

- Staff planning training schedule. TST training will be scheduled for Basin 11 and 13 in early summer.

Thanks,

Steve

Steven Johnston
Senior Planner
Community & Environmental Department | Houston-Galveston Area Council
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steven.johnston@h-gac.com
<http://h-gac.com/community/water/tmdl/big/default.aspx>

Johnston, Steven

From: Johnston, Steven
Sent: Monday, February 4, 2019 5:26 PM
To: Jason Leifester (Jason.leifester@tceq.texas.gov)
Cc: 'Jazmyn Milford'; Chris Loft
Subject: FY 19 WO #3 Weekly Reports (Jan 21 - Jan 25) and (Jan 28 - Feb 1)

Good Evening, Jason – Below you will find the weekly reports for Work Order #3 under 582-18-81222. Please let me know if you have any questions.

Jan 21st – Jan. 25th:

Task 1 Project Administration

- **Anticipate Spend Down August 2019?:** Yes.
- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$120,000
- **Total Spent to Date (Nov. 30, 2018):** \$20,170.66 **Remaining Budget Amount:** \$99,829.34

Task 2 Public Education and Outreach Activities

- Meeting date for the second CC meeting set for February 21, 2019 at the Bay City Civic Center.
- Preparing email and letter announcements to watershed stakeholders.

Task 3 Quality Assurance

- No update.

Task 4 TMDL Development and Key Elements of a WPP

- Pulling information together for second CC meeting.
- Staff preparing bacteria source priority maps and draft source load reductions.

Task 5 Coordinate with the Texas Stream Team Program

- Staff planning training schedule. TST training will be scheduled for Basin 11 and 13 in early summer.

Jan 28th – Feb. 1st:

Task 1 Project Administration

- **Anticipate Spend Down August 2019?:** Yes.
- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$120,000
- **Total Spent to Date (Nov. 30, 2018):** \$20,170.66 **Remaining Budget Amount:** \$99,829.34
- **Discussed FY2020 WO planning with TCEQ PM.**

Task 2 Public Education and Outreach Activities

- Meeting date for the second CC meeting set for February 21, 2019 at the Bay City Civic Center.
- Email sent out announcing meeting to stakeholders
- Draft letter to local officials and permit holders submitted to management for review.
- H-GAC is working on a new outreach plan that will include individual watershed level outreach and a targeted basin approach for local leaders, government officials and permit holders to encourage participation.

Task 3 Quality Assurance

- No update.

Task 4 TMDL Development and Key Elements of a WPP

- Drafting meeting presentation.
- Pulling information together for second CC meeting.
- Staff preparing bacteria source priority maps and draft source load reductions.

Task 5 Coordinate with the Texas Stream Team Program

- Staff planning training schedule. TST training will be scheduled for Basin 11 and 13 in early summer.

Thanks,

Steve

Steven Johnston
Senior Planner
Community & Environmental Department | Houston-Galveston Area Council
3555 Timmons, Suite 120 Houston, TX 77027 | www.h-gac.com
832.681.2579 | 713.627.3200 | fax: 713.993.4503
steven.johnston@h-gac.com
<http://h-gac.com/community/water/tmdl/big/default.aspx>

Johnston, Steven

From: Johnston, Steven
Sent: Monday, January 21, 2019 5:44 PM
To: Jason Leifester (Jason.leifester@tceq.texas.gov)
Cc: 'Jazmyn Milford'; Chris Loft
Subject: RE: FY 19 WO #3 Weekly Reports (Jan 14 - Jan 18)

Good Evening, Jason – Below you will find the weekly reports for Work Order #3 under 582-18-81222. Please let me know if you have any questions.

Jan 14th – Jan. 18th:

Task 1 Project Administration

- **Anticipate Spend Down August 2019?:** Yes.
- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$120,000
- **Total Spent to Date (Nov. 30, 2018):** \$12,302.66 **Remaining Budget Amount:** \$107,697.34
- Will provide updated numbers with next week's report

Task 2 Public Education and Outreach Activities

- Meeting date for the second CC meeting set for February 21, 2019 at the Bay City Civic Center.

Task 3 Quality Assurance

- No update.

Task 4 TMDL Development and Key Elements of a WPP

- Pulling information together for second CC meeting.
- Staff preparing bacteria source priority maps and draft source load reductions.

Task 5 Coordinate with the Texas Stream Team Program

- Staff planning training schedule. TST training will be scheduled for Basin 11 and 13 in early summer.

Thanks,

Steve

Steven Johnston
Senior Planner
Community & Environmental Department | Houston-Galveston Area Council
3555 Timmons, Suite 120 Houston, TX 77027 | www.h-gac.com
832.681.2579 | 713.627.3200 | fax: 713.993.4503
steven.johnston@h-gac.com
<http://h-gac.com/community/water/tmdl/big/default.aspx>

Johnston, Steven

From: Johnston, Steven
Sent: Wednesday, February 27, 2019 4:40 PM
To: Jason Leifester (Jason.leifester@tceq.texas.gov)
Cc: 'Jazmyn Milford'; Chris Loft
Subject: FY 19 WO #3 Weekly Reports (Feb 4 - Feb 8), (Feb 11 - Feb 15) and (Feb 18 - Feb 22)
Attachments: 0618_001.pdf

Good Afternoon, Jason – Below you will find the weekly reports for Work Order #3 under 582-18-81222. Please let me know if you have any questions.

Feb 4th – Feb. 8th:

Task 1 Project Administration

- ***Anticipate Spend Down August 2019?:*** Yes.
- ***Is spending by categories going as expected?:*** Yes at this time.
- ***Last Invoice:*** N/A.
- ***Original Budget Amount:*** \$120,000
- ***Total Spent to Date (Jan. 31, 2019):*** \$29,806.19 ***Remaining Budget Amount:*** \$90,193.81
- **FY20 Draft WO planning with TCEQ PM.**

Task 2 Public Education and Outreach Activities

- CC meeting set for February 21, 2019 at the Bay City Civic Center.
- Preparing for CC meeting
- Letter to local officials and permit holders were mailed.

Task 3 Quality Assurance

- No update.

Task 4 TMDL Development and Key Elements of a WPP

- Pulling information together for second CC meeting.
- Staff preparing bacteria source priority maps and draft source load reductions.

Task 5 Coordinate with the Texas Stream Team Program

- Staff planning training schedule. TST training will be scheduled for 13 in early summer.

Feb 11th – Feb. 15th:

Task 1 Project Administration

- ***Anticipate Spend Down August 2019?:*** Yes.
- ***Is spending by categories going as expected?:*** Yes at this time.
- ***Last Invoice:*** N/A.
- ***Original Budget Amount:*** \$120,000
- ***Total Spent to Date (Jan. 31, 2019):*** \$29,806.19 ***Remaining Budget Amount:*** \$90,193.81
- **FY20 Draft WO/Budget submitted to TCEQ**

Task 2 Public Education and Outreach Activities

- CC meeting set for February 21, 2019 at the Bay City Civic Center.
- Preparing for CC meeting
- Presentation shared with TCEQ PM

Task 3 Quality Assurance

- No update.

Task 4 TMDL Development and Key Elements of a WPP

- Began to draft TMDL document.
- Staff preparing bacteria source priority maps and draft source load reductions.

Task 5 Coordinate with the Texas Stream Team Program

- TST training will be scheduled for Basin 13 in early summer.

Feb 18th – Feb. 22nd.

Task 1 Project Administration

- **Anticipate Spend Down August 2019?:** Yes.
- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$120,000
- **Total Spent to Date (Jan. 31, 2019):** \$29,806.19 **Remaining Budget Amount:** \$90,193.81

Task 2 Public Education and Outreach Activities

- CC meeting was held on February 21, 2019 at the Bay City Civic Center. Seven stakeholders attended the meeting (sign-in sheet attached). H-GAC provided a review of Caney Creeks water quality, but focused attention on formalizing the coordination committee, discussed roles, and expectations. H-GAC lead a discussion on the need for additional representation and attendees provided some guidance. H-GAC then reviewed the types of bacteria sources and best management practices that will be discussed at the next meeting. To assist with preparing for the next meeting, H-GAC provided copies of the San Bernard WPP, Tres Palacios WPP and Tres Palacios I-Plan.
- CC meeting email reminders sent out.
- Set date for Leadership Forum for Basin 13 local officials and permit holders: March 21, 2019 at the Wharton County Library in Wharton. The Leadership Forum is being devised as a means to encourage participation by local governments at a higher level in support of reviewing draft documents (I-Plan/WPP) and build capacity for future implementation.

Task 3 Quality Assurance

- No update.

Task 4 TMDL Development and Key Elements of a WPP

- Began to draft TMDL document.
- Staff preparing bacteria source priority maps and draft source load reductions.

Task 5 Coordinate with the Texas Stream Team Program

- TST training will be scheduled for Basin 13 in early summer.

Thanks,

Steve

Steven Johnston

Senior Planner

Community & Environmental Department | Houston-Galveston Area Council

3555 Timmons, Suite 120 Houston, TX 77027 | www.h-gac.com

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<http://h-gac.com/community/water/tmdl/big/default.aspx>

Johnston, Steven

From: Johnston, Steven
Sent: Tuesday, March 5, 2019 4:26 PM
To: Jason Leifester (Jason.leifester@tceq.texas.gov)
Cc: 'Jazmyn Milford'; Chris Loft
Subject: FY19 WO #3 Weekly Report (Feb 25 - Mar 1)

Good Afternoon, Jason – Below you will find the weekly report for Work Order #3 under 582-18-81222. Please let me know if you have any questions.

Feb. 25th – Mar. 1st:

Task 1 Project Administration

- ***Anticipate Spend Down August 2019?:*** Yes.
- ***Is spending by categories going as expected?:*** Yes at this time.
- ***Last Invoice:*** N/A.
- ***Original Budget Amount:*** \$120,000
- ***Total Spent to Date (Jan. 31, 2019):*** \$29,806.19 ***Remaining Budget Amount:*** \$90,193.81

Task 2 Public Education and Outreach Activities

- Scheduling CC meeting for May 2019.
- Set date for Leadership Forum for Basin 13 local officials and permit holders: March 21, 2019 at the Wharton County Library in Wharton. The Leadership Forum is being devised as a means to encourage participation by local governments at a higher level in support of reviewing draft documents (I-Plan/WPP) and build capacity for future implementation. Letters to local government and permittees were mailed out.

Task 3 Quality Assurance

- No update.

Task 4 TMDL Development and Key Elements of a WPP

- Began to draft TMDL document.
- Staff preparing bacteria source priority maps and draft source load reductions.
- Staff will begin to address return flows and inter basin sources (WWTF effluent) affect on Caney Creek flow estimates. Once flows are corrected, the LDCs and TMDL calculations will be adjusted.

Task 5 Coordinate with the Texas Stream Team Program

- TST training will be scheduled for Basin 13 in early summer.

Thanks,

Steve

Steven Johnston
Senior Planner
Community & Environmental Department | Houston-Galveston Area Council
3555 Timmons, Suite 120 Houston, TX 77027 | www.h-gac.com
832.681.2579 | 713.627.3200 | fax: 713.993.4503
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<http://h-gac.com/community/water/tmdl/big/default.aspx>

San Jacinto-Brazos Coastal Basin

The Houston-Galveston Area Council (H-GAC) is working with local partners to reduce elevated bacteria levels in the basin.

What is a Basin?

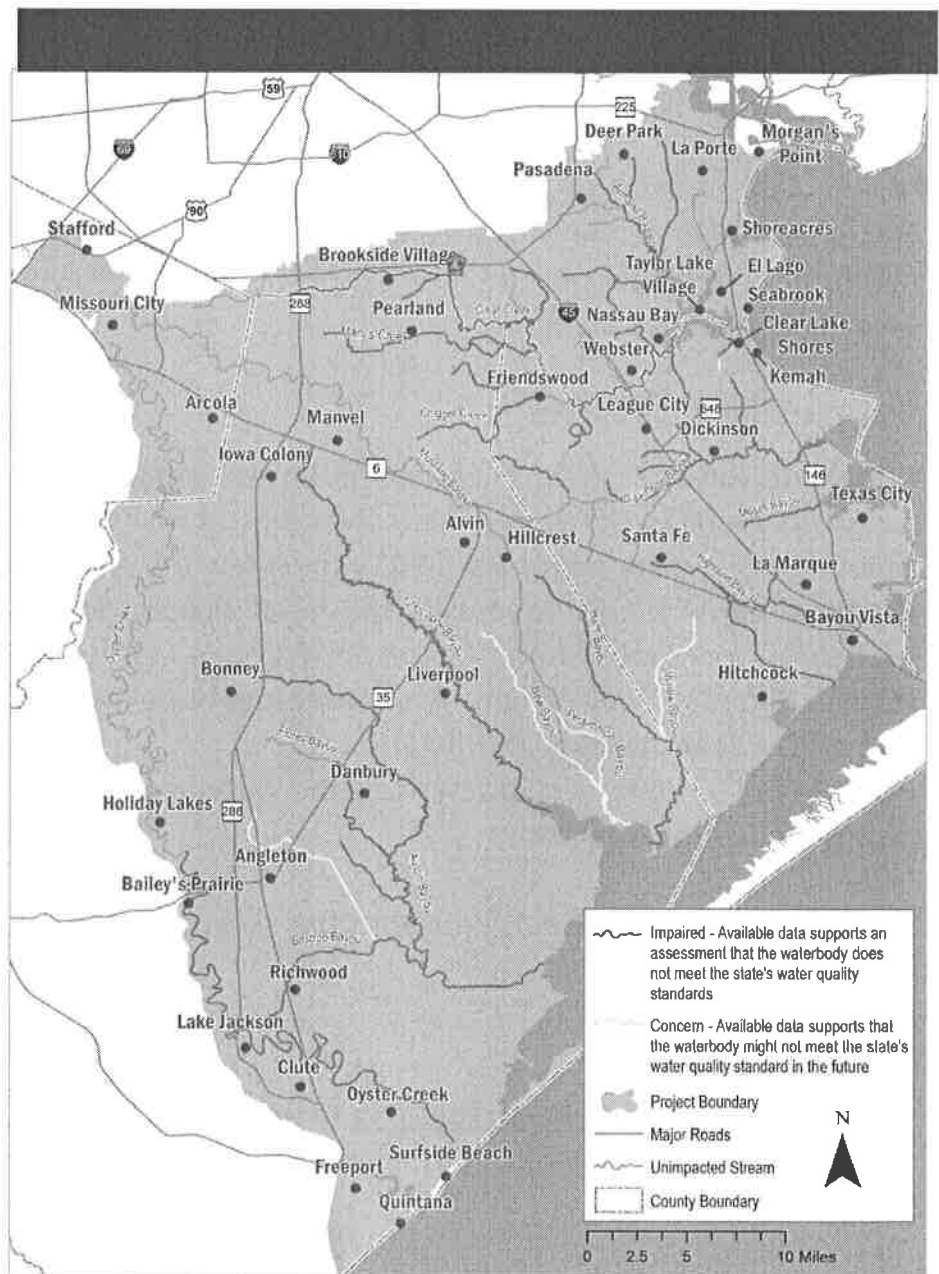
A basin is an area of land, often associated with a river, where rainfall collects, then flows to a bay or ocean. Rainwater collected in the San Jacinto-Colorado Coastal Basin travels to Galveston Bay and the Gulf of Mexico.

How's the Water?

Many of the bayous and streams within this basin have high bacteria levels. According to standards set by the Texas Commission on Environmental Quality (TCEQ) these waterways may not be suitable for recreational activities, such as swimming.

Where Do Bacteria Come From?

Bacteria in the water can come from many sources. These sources include: aging sanitary sewer systems, failing on-site sewage facilities or septic tanks, and polluted stormwater runoff.





Armand Bayou at Bay Area Park, Pasadena Texas

What We Are Doing to Address the Problem?

H-GAC, through funding from the TCEQ, is working in partnership with local governments and community organizations in Oyster Creek, Chocolate Bayou, and Halls Bayou to develop voluntary solutions to reduce bacteria.

What Is the Status?

Chocolate Bayou – A draft Chocolate Bayou implementation plan (I-Plan) is being developed to reduce bacteria in the waters near the cities of Manvel, Iowa Colony, Alvin and Liverpool. A Public meeting being planned for April 2019 to review the plan and accept comments.

Oyster Creek – H-GAC is seeking the input of local leaders to identify the bacteria reduction measures for waters near Angleton, Bailey's Prairie, Lake Jackson and Clute that will make up the Oyster Creek I-Plan. A stakeholder meeting is being held on January 29, 2019 at 2 PM at the Lake Jackson Public Library.

Halls Bayou – H-GAC is characterizing the water quality and will begin working with stakeholders to discuss reduction efforts.

The input of local leaders is crucial to the success of these efforts and we want you to be a part of the conversation.

To Learn More

Visit www.h-gac.com/water/basin11 to learn more about the project, or e-mail Steven.Johnston@h-gac.com to schedule a meeting to discuss how you can help reduce bacteria in the San Jacinto-Colorado Coastal Basin.





Search H-GAC

Search

San Jacinto-Brazos Coastal Basin Bacteria Reduction Project

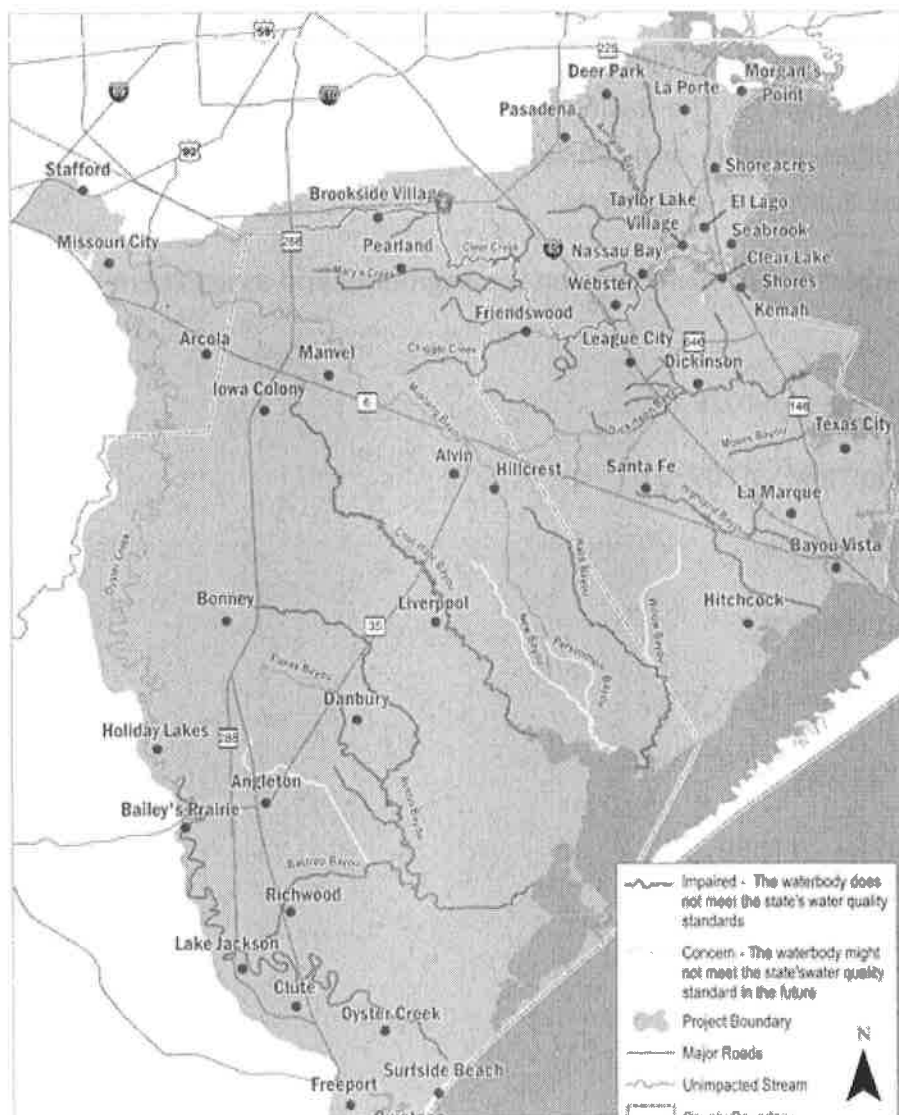
Watershed Characteristics

The streams addressed by this project are located within the San Jacinto-Brazos Coastal Basin, referred to as Basin 11. The Basin covers a large geographic area, and includes all or a portion of 50 cities, villages, and census-designated places and four counties: Brazoria, Fort Bend, Galveston and Harris.

H-GAC will analyze bacteria impairments on the segments and assessment units in Basin 11:

- Mary's Creek Bypass – 1102F_01;
- Dickinson Bayou Tidal – 1103_01;
- Gum Bayou – 1103D_01;
- Cedar Creek – 1103E_01;
- Bastrop Bayou Tidal – 1105_01;
- Flores Bayou – 1105A_01;
- Austin Bayou Tidal – 1105B_01;
- Austin Bayou Above Tidal – 1105C_01;
- Brushy Bayou – 1105E_01;
- Chocolate Bayou Tidal – 1107_01;

- Chocolate Bayou Above Tidal – 1108_01;
- Oyster Creek Tidal – 1109_01;
- Oyster Creek Above Tidal – 1110_01;
- Armand Bayou Tidal – 1113_02 and 1113_03;
- Armand Bayou Above Tidal – 1113A_01;
- Horsepen Bayou Tidal – 1113B_01;
- Unnamed Tributary to Horsepen Bayou – 1113C_01;
- Willow Springs Bayou – 1113D_01; and
- Big Island Slough – 1113E_01.





Click on the image above for a full size version.

About the Project

This effort will be a multi-year process to identify, plan, and address bacteria impairments across the basin in coordination with local stakeholders. The entire basin will be reviewed, with the each watershed addressed individually based on water quality data and stakeholder feedback. Watersheds with common issues may be grouped together for implementation efforts to encourage collaboration between stakeholders.

[Executive Summary](#)

Characterization Report

Click here to view:

Year One: [Basin Characterization Report for the San Jacinto-Brazos Coastal Basin for Indicator Bacteria](#)

Year Two: [Basin Characterization Report for the San Jacinto-Brazos Coastal Basin for Indicator Bacteria](#)

Oyster Creek

Meeting 1

Presentation (November 8, 2018)

Meeting 2

Presentation (January 29, 2019)

Meeting 3

Tuesday, March 12

2 to 4 p.m.

Brazoria County Public Library, 250 Circle Way, Lake Jackson

Please email Steven Johnston at Steven.Johnston@h-gac.com for more information.

Chocolate Bayou

Meeting 1

Presentation (December 6, 2016)

Meeting 2

Presentation (August 10, 2017)

Meeting 3

Presentation (November 14, 2017)

Meeting 4: Chocolate Bayou Coordination Committee Meeting

Presentation (January 10, 2018)

Work Group Meetings

Nonpoint Source Work Group (March 28, 2018)

Outreach Work Group (April 5, 2018)

Point Source Work Group (April 5, 2018)

Please email Steven Johnston at Steven.Johnston@h-gac.com for more information.

Total Maximum Daily Loads and Implementation Plans (TMDL)

TMDL Frequently Asked Questions

Brazos-Colorado Coastal Basin Bacteria Reduction Project

East and West Forks of the San Jacinto River TMDL and
Implementation Plan

Houston Ship Channel and Galveston Bay TMDL and Implementation
Plan

San Jacinto-Brazos Coastal Basin Bacteria Reduction Project

Upper Oyster Creek TMDL and Implementation Plan

Contact

Steven Johnston

Senior Planner

(832)-681-2579

steven.johnston@h-gac.com

TMDL Study Resources

[TMDL Frequently Asked Questions](#)

H-GAC News & Events

There are no news items at this time.

[Careers](#)

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San Jacinto – Brazos Coastal Basin: Public Outreach Report

Oyster Creek Public Meeting

January 29, 2019

TABLE OF CONTENTS

I.	OVERVIEW	2
II.	PURPOSE	2
III.	APPROACH	3
IV.	NOTIFICATION	3
V.	MATERIALS	3
VI.	MEETING SYNOPSIS	3
VII.	NEXT MEETING	5



I. OVERVIEW

Per Umbrella Contract 582-18-81222-04, the Texas Commission on Environmental Quality (TCEQ) requested Public Outreach support from the Houston-Galveston Area Council (H-GAC) for Basin 11, with activities for all elements of Public Outreach including, but not necessarily limited to:

- Identifying and Reserving Facilities for Meetings and / or Events;
- Providing a Facilitator for Any Meetings (As Needed);
- Providing Support for Organizing and Advertising Meetings and / or Events;
- Distribution and Posting of Meeting Agenda(s);
- Preparation of Meeting and / or Event Summaries;
- Preparation of Printed or Other Presentation Materials in Support of a Meeting and / or Event;
- Use of the H-GAC Website for Posting Meeting and / or Event Information; and
- Any Other Necessary Support Activities.

On January 29, 2019 (Oyster Creek Public Meeting), H-GAC conducted a public meeting in Lake Jackson to review Oyster Creek water quality data; information contained in the draft Technical Support Document, including load duration curves and TMDL calculations; initiate the development of the Oyster Creek coordination committee and discussed next steps.

II. PURPOSE

Oyster Creek, a waterbody within Basin 11, which originates in Fort Bend County, transverses Brazoria before entering the Gulf of Mexico by way of Galveston Bay.

The Purpose of this public meeting was to discuss the following:

1. Review Oyster Creek water quality, load duration curves, and TMDL information,
2. Present water quality management opportunities,
3. Initiate Oyster Creek Coordination Committee, and
4. Introduce the Coastal Communities Implementation Project.



III. APPROACH and NOTIFICATION

A list of stakeholders and interested parties was generated based on a survey initiated in FY 2016. The list has since been augmented following four previous public meetings, efforts to contact organizations and interest groups and private individuals. Identified stakeholders were then contacted directly via e-mail, phone and/or letter to notify them of the planned public meeting. Additionally, a broad net was cast via email and press release to a larger set of stakeholders and public to announce the public meeting. Announcement was placed on the H-GAC website. Additional meeting details; and meeting reminders were sent to the identified list of stakeholders. H-GAC also discussed the project with a reporter from the Brazoria County Facts. The reporter wrote several new articles on the meeting.

IV. MATERIALS

The following materials were made available for the meeting:

1. Sign-In Sheet(s)
2. Watershed Map / Basin Map
3. Meeting Presentation

V. MEETING SYNOPSIS

Location

Lake Jackson Public Library
250 Circle Way
Lake Jackson, TX

When

Tuesday, January 29, 2019
2 PM – 4 PM



Attendees

NAME	ORGANIZATION REPRESENTED	ASSUMED COUNTY?
Debbie Webb	City of Lake Jackson	Brazoria
Charles Robertson	Resident	Brazoria
Cathy Sweet	Resident, TST volunteer	Brazoria
Chip Sweet	Resident, TST volunteer	Brazoria
Dude Payne	Brazoria County – Pct. 1	Brazoria
Darlene Thornsberry	City of Lake Jackson	Brazoria
Jorene Keycock	Resident	Brazoria
Gerald Shanks	Resident	Brazoria
Brian Koch	TSSWCB	Wharton
Billy Koeninga	Resident	Brazoria
Amy Condon	Realtor	Brazoria
Nikki Sterling	Realtor	Brazoria
Kent Evans	Private Consultant	Brazoria
John Minkent	Master Naturalist	Brazoria
Lynette Brooks	Resident	Brazoria
William Carlton	City of Lake Jackson	Brazoria
Pamela Hagood	Resident	Brazoria
Karen Temple	Resident	Brazoria
Melanie Oldham	Resident	Brazoria
Maddy McCarty	The Facts	Brazoria
Colleen Roco	TPWD	Galveston
Clifton Custer	City of Richwood	Brazoria
Jazmyn Milford	TCEQ – TMDL Program	Travis
Anne Bartlett	Brazosport College	Brazoria
Bob Sipple	Mayor, City of Lake Jackson	Brazoria

To view the sign-in sheet in its entirety, please see Attachment A.

Meeting Summary

Mr. Steven Johnston from H-GAC provided a presentation that included an agenda, reviewed data specific to the Oyster Creek watershed and information contained in the draft Oyster Creek Technical Support Document. This included a review of load duration curves and presentation of TMDL calculations. Mr. Johnston presented water quality management planning options to address elevated levels of bacteria. Mr. Johnston invited attendees to participate in the development of an Oyster Creek coordination committee. He also discussed the need to attract a broad group of individuals and organizations to participate. Attendees were then provided a presentation by Ms. Becki Begley (H-




GAC) on the Coastal Communities project implementing nonpoint source outreach and information to non-municipal separate storm sewer systems.

- VI. **NEXT MEETING**
To Be Determined.

OYSTER CREEK WATERSHED TMDL PROJECT

January 29, 2019

Steven Johnston

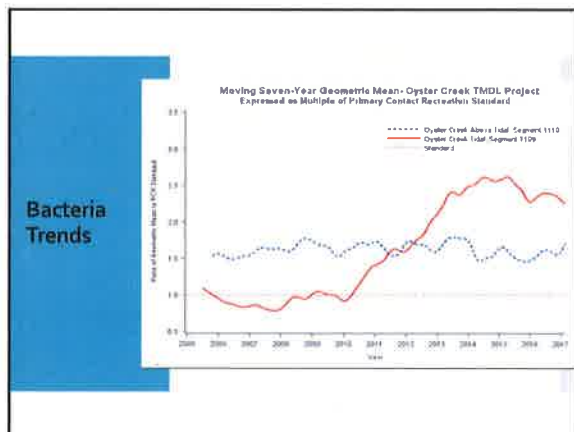
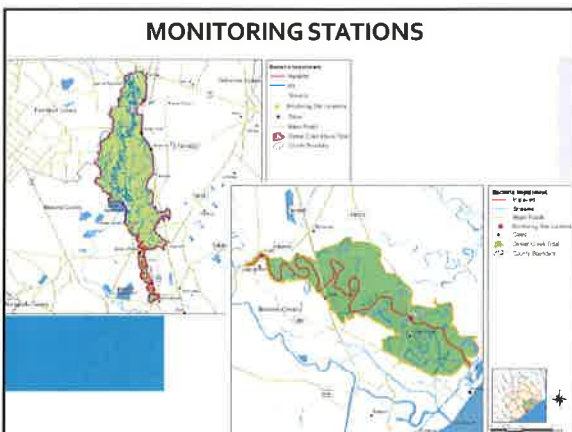
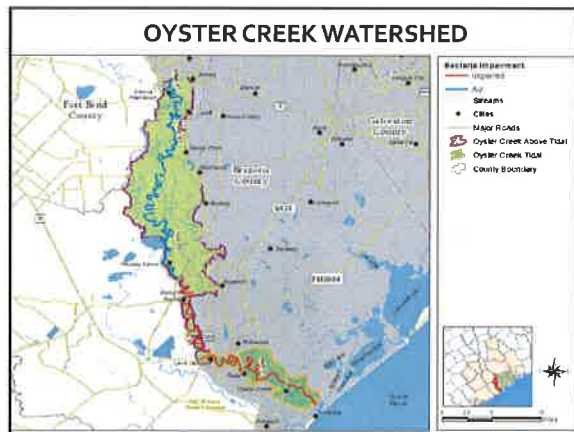


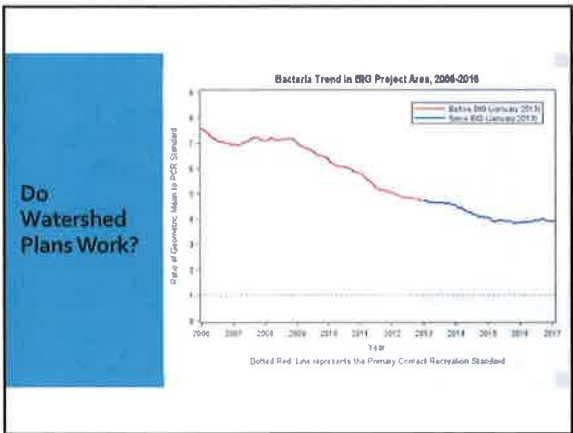

Meeting Agenda

- 2:00 – 2:05 Welcome - Open Meeting
- 2:05 – 2:35 Review Oyster Creek Project Results
- 2:35 – 3:05 Coordination Committee Roles, Responsibilities and Selection
- 3:05 – 3:35 Watershed Based Planning/Bacteria Reduction
- 3:35 – 3:45 Coastal Communities Project
- 3:45 – 4:00 Wrap Up and Next Steps
- Open Q&A / Adjourn

Why Are We Here?

Portions of Oyster Creek do not meet the State's Water Quality Standards for Contact Recreation.

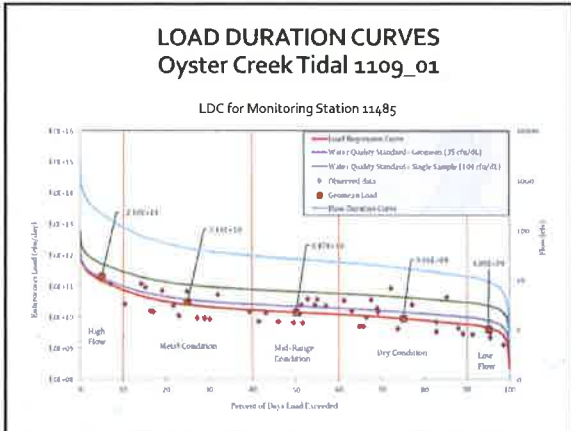
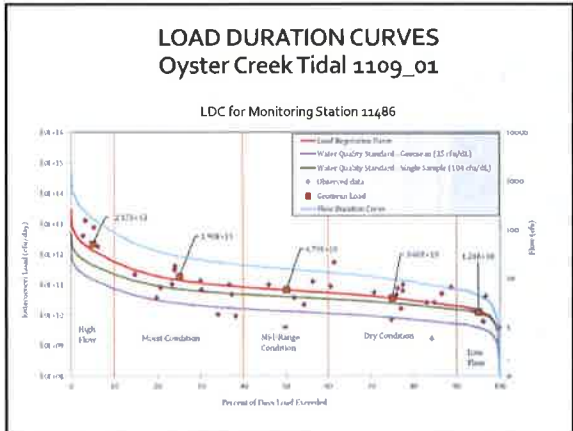
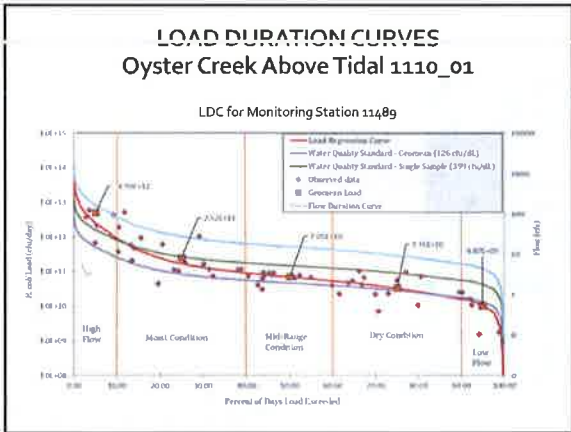


Determining Pollutant Loadings – LDC Approach

- Load Duration Curve (LDC) Method Used
- Method is widely accepted by EPA and Texas for development of bacteria WBP
- Modification of LDCs for tidal streams pioneered by State of Oregon and being used in Texas for TMDL development.
- TMDLs adopted by TCEQ and approved by EPA in 2016 for Tidal segments of Mission & Aransas Rivers used Modified FDCs/LDCs

LDC Development Requires

- streamflow data
- bacteria (Enterococci & *E. coli*) data
- salinity data (for Modified Approach)
- the relevant bacteria criterion



BACTERIA REDUCTION

Flow Condition	Concentration Range	1979		1977	
		E. faecalis		E. coli	
		Geometric Mean (MPN/100mL)	Required Percent Reduction	Geometric Mean (MPN/100mL)	Required Percent Reduction
High Flow	(10-10M)	133.02	85.47%	679.44	81.59%
Midst	(10-10M)	209.28	83.31%	270.83	53.44%
Mid Range	(50-60M)	175.20	80.01%	189.02	33.31%
Dry	(50-20M)	151.77	77.09%	144.67	32.01%
Low Flow	(100-1000M)	118.98	70.98%	89.90	0.00%

TMDL

TMDL = WLA (WLA_{1st} and WLA_{2nd}) + LA + FG + MOS

Draft TMDL TSD - (Preliminary)

WLA	LA	TMDL	WPP	WLA _{1st}	WLA _{2nd}	LA	FG
1196.01	8.00	1204.01	144.68	2.69	9.19	1.87	126.31
1018.20	8.00	1026.20	144.79	14.79	33.35	18.05	399.01

What's a Coordination Committee?

A proactive group of local and regional stakeholders helping to create and drive content for the TMDL/I-Plan and/or WPP documents.

- ### Role of the Coordination Committee
- Attend Public Meetings
 - Participate in Work Groups
 - Act as Community Ambassadors
 - Provide Input on Priorities for the Watershed
 - Identify Appropriate Management Measures
 - Provide Input on Documents & Reports

Group (Break Out?) Discussion

(1) POTENTIAL INTERESTS

- Citizens
- Education
- Environmental Groups
- Government Interest
- Industry and Business
- Parks/Recreation
- Resource Agency
- Watersheds
- Wildcard
- Others?

(2) NUMBER OF REPRESENTATIVES

- Ideal size of the committee?
- Other committees range from 31 members to 18.
- Number should be fairly distributed by interest.

(3) PROCESS TYPES

FORMAL

- Formal nominations
- Recorded votes
- Written rules of order

INFORMAL

- Informal nominations
- Consensus-based
- Ground rules

(4) MISSING PIECES

- Who should be here that isn't?
- Are we missing major industry or stakeholder groups?

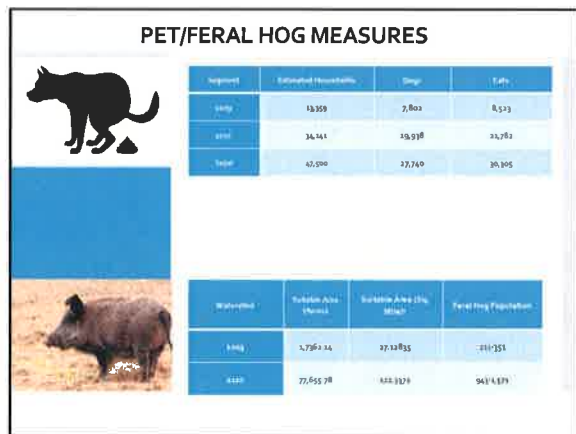
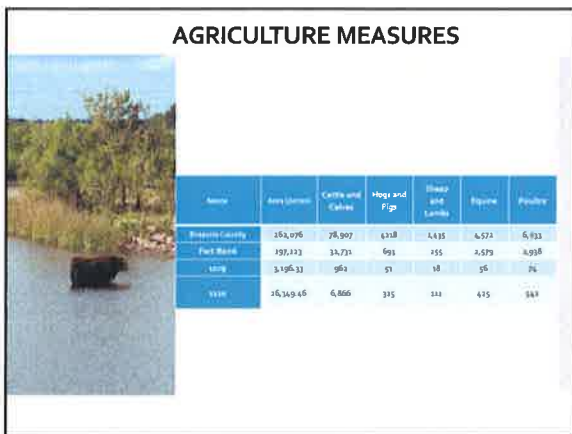
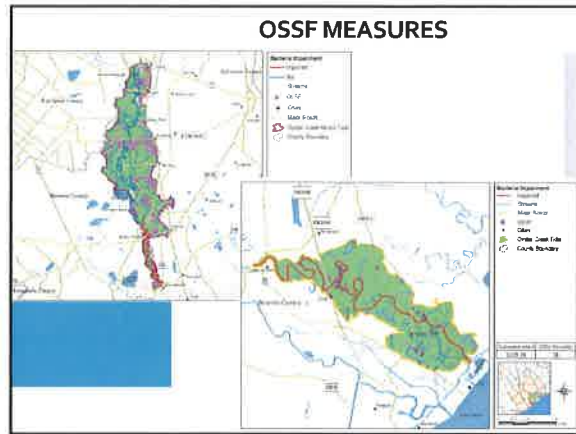
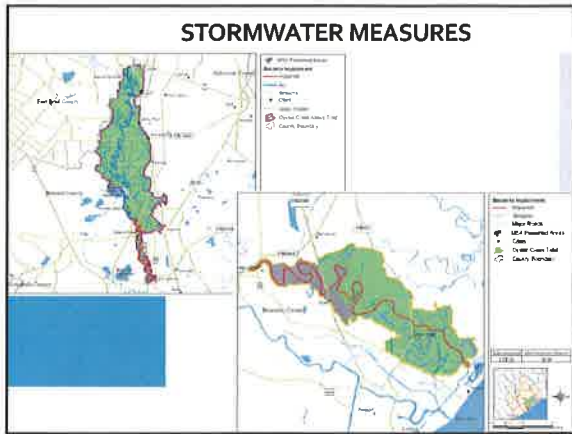
Coordination Committee Decision Process

FORMAL

- Establish bylaws that govern the actions of the committee
- Adhere to Open Meeting Act Requirements

INFORMAL

- Develop a set of ground rules that will be used to govern the committee
- Committee members approve ground rules and their use



Implementation: Workshops, Training and Resources

Texas Stream Team Training - February 2018

Texas Watershed Stewards Training/July 11, 2017

Implementation: Outreach and Education


NO WIPES IN THE PIPES!
DIRTY POTTY MATTERS

DON'T FEED the Grease Monster

CREATE A MONSTER OF A PROBLEM

<https://coastalcommunitiesTX.com>

Next Steps in the TMDL/WPP Process



- Coordination Committee (CC) – Discuss TMDL/WPP Measures (January 2019)
- CC – Reviews and Selects Draft Measures (March 2019)
- H-GAC Drafts Reduction Measures (March 2019)
- H-GAC Drafts TMDL/I-Plan and/or WPP (April 2019)
- CC – Reviews Draft Plan (May 2019)
- TMDL/I-Plan and/or WPP Draft Submitted to TCEQ (June 2019)

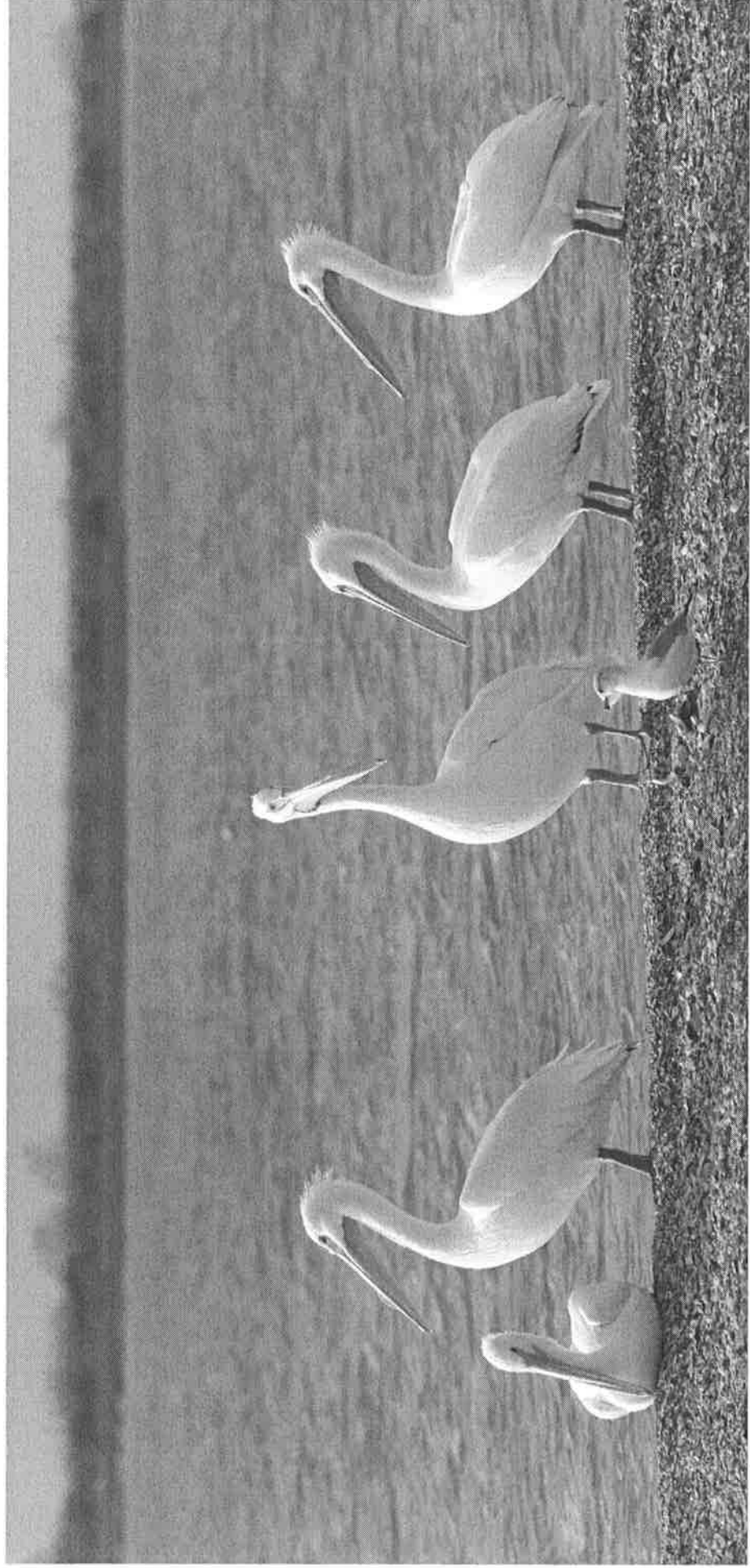
Thank You!

Project website: www.gulfcoastwater.org

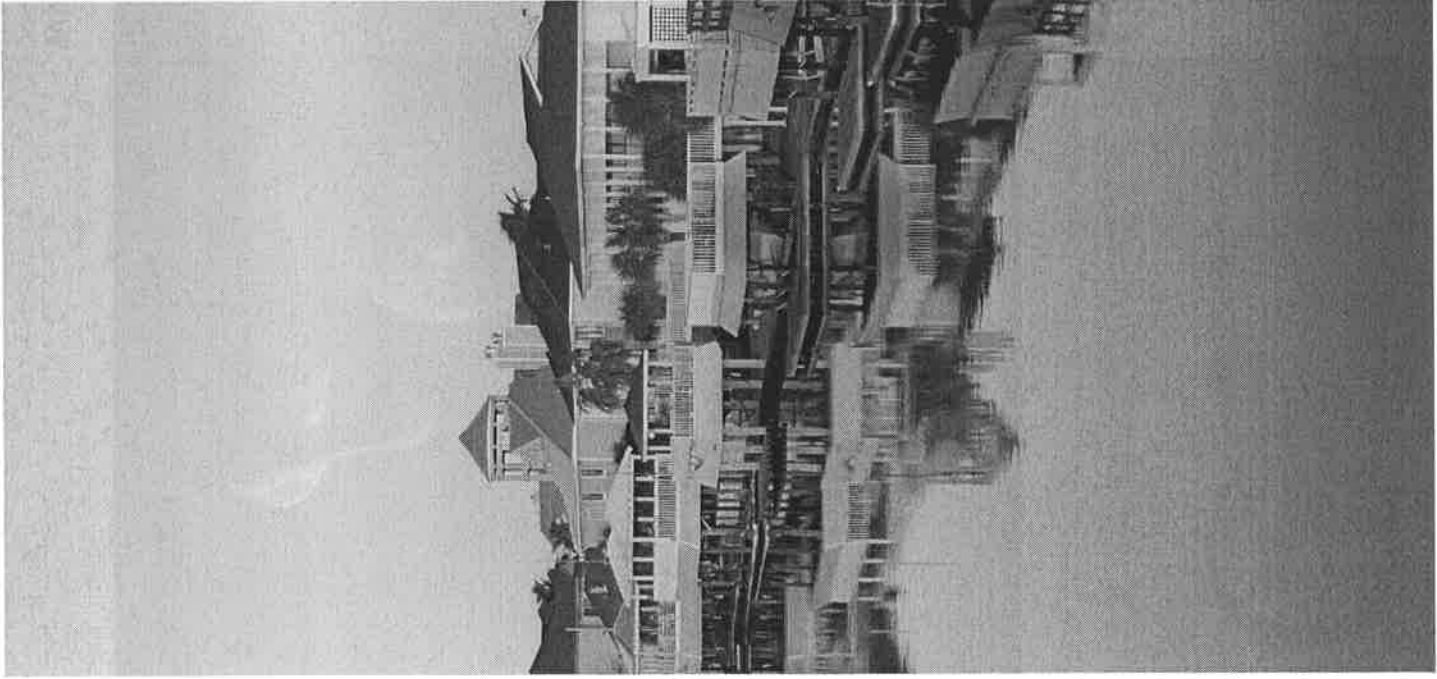




Coastal Communities Water Quality Outreach Project



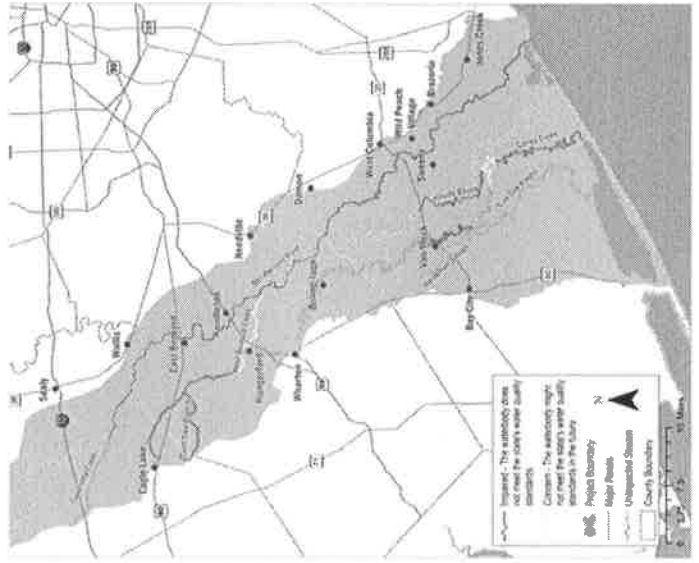
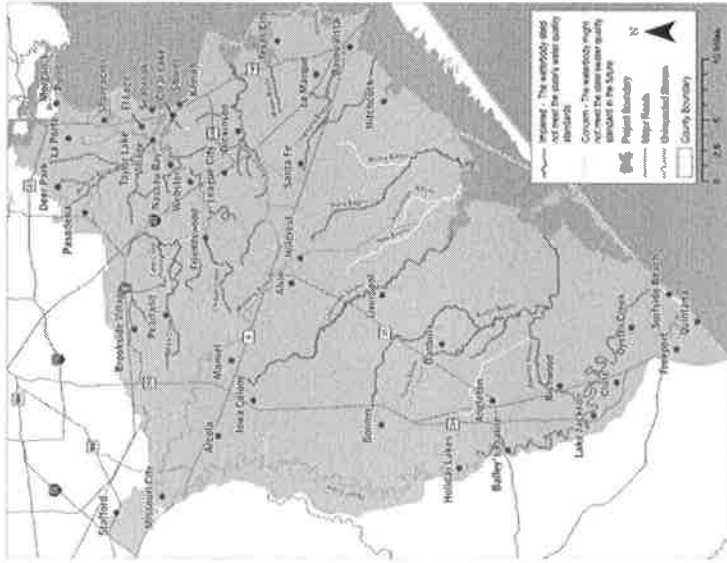
www.CoastalCommunitiesTX.com



WHY?

H-GAC & Partner projects in coastal counties

- Watershed Protection Plans
- TMDL projects
- Basin-wide projects
- Clean Rivers Program monitoring
- Texas Stream Team



COMMON ISSUE?

Impairment or concern for bacteria in

- 8% lakes
- 58% freshwater streams
- 56% tidal streams

Meaning they do not meet the state standard



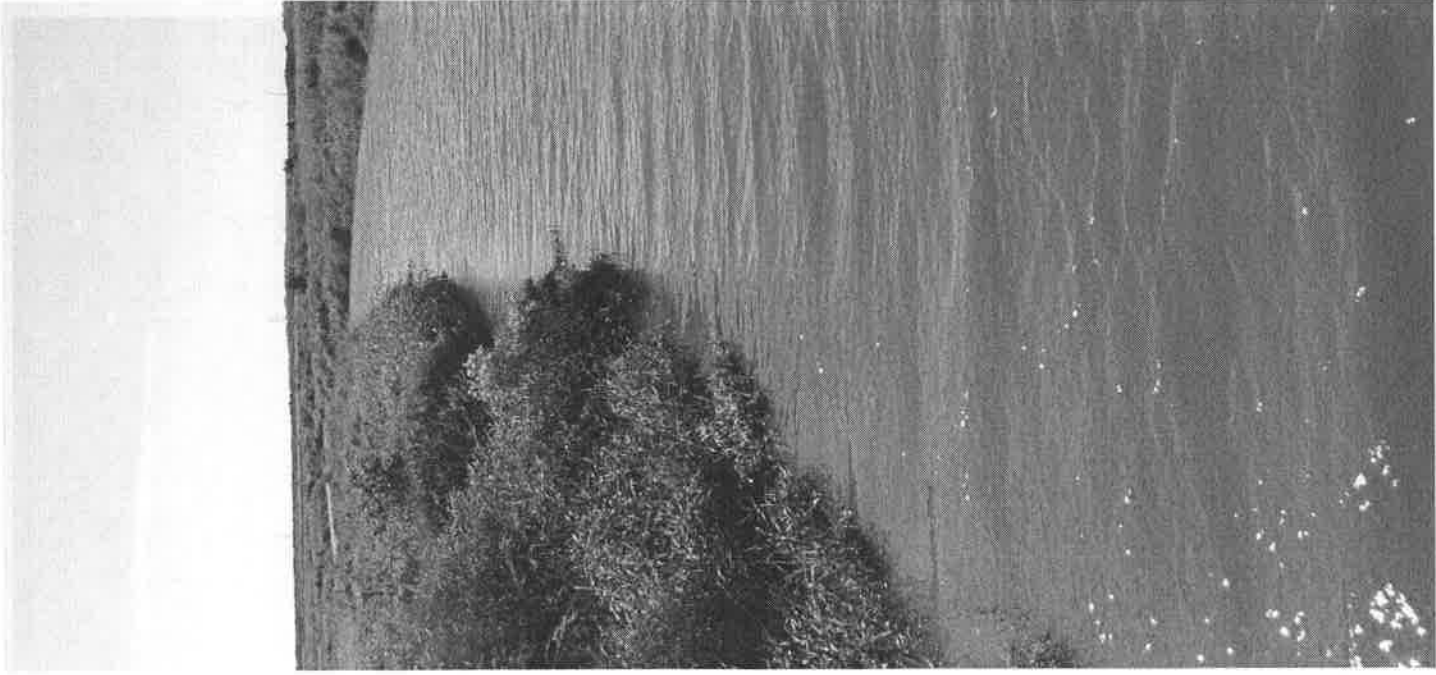
PURPOSE?

- Fill gap between **needs** of coastal communities and education/outreach **measures** identified in water quality projects
- Assist with coordinated, comprehensive outreach across the region



FOCUS?

- Address **four residential pollution sources** that negatively impact water quality
- Focus on **changing behaviors** of residents
 - Pet Waste Disposal
 - Improper Disposal of Fats, Oils, Grease
 - Littering & Illegal Dumping
 - Maintenance of On-site Sewage Facilities



STRATEGIES?

- Identify outreach needs.
- Create a public outreach plan template.
- Compile an evolving toolbox of outreach materials and resources.
- Maintain a website for news, workshops, events, and funding resources.
- Organize a collaborative outreach working group for networking between local governments, community groups, and outreach organizations. (*Next meeting is Feb. 20 in Alvin*)
- Support select public outreach events, including the region-wide River, Lakes, Bays 'N Bayous Trash Bash®, and in individual communities



OSSF FUNDING

- Repair or replacement of failing conventional/aerobic systems
- Income restrictions do apply
- No cost-sharing required
- Must be the homeowner residing on property
- Contact ossf@h-gac.com



CONTACT:

Becki Begley

Houston-Galveston Area Council

Senior Environmental Planner

Becki.begley@h-gac.com

WaterResources@h-gac.com

713-993-2410

www.CoastalCommunitiesTx.com

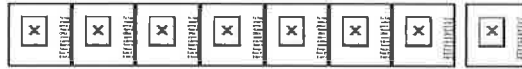
www.TrashBash.org

www.H-GAC.com

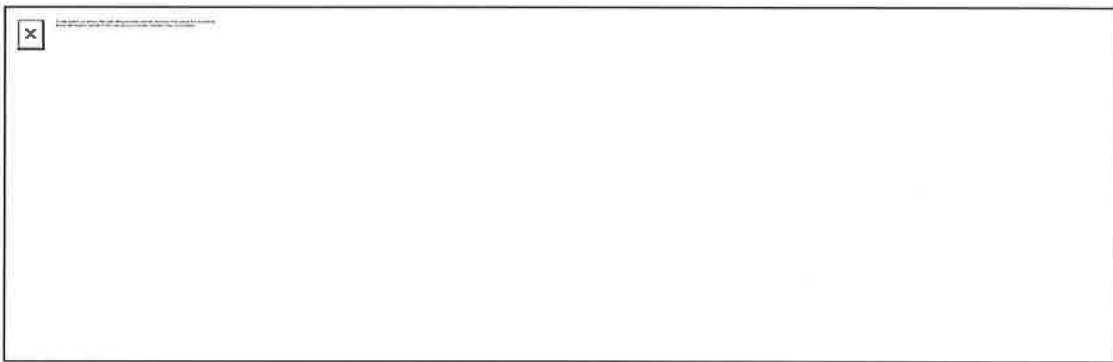
Johnston, Steven

From: Houston-Galveston Area Council <rick@h-gac.ccsend.com> on behalf of Houston-Galveston Area Council <andrea.tantillo@h-gac.com>
Sent: Friday, February 1, 2019 9:05 AM
To: Johnston, Steven
Subject: Your February H-GAC C&E newsletter is here!

Having trouble viewing this email? [Click here](#)



Keeping you up to date on the community planning, economic development, and environmental planning programs at H-GAC.

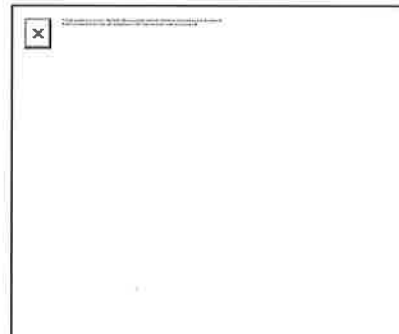


Your Monthly News & Updates

Upcoming Events

Parks and Natural Areas Summit and Awards Ceremony - February 8

H-GAC will host the first Parks and Natural Areas Summit and Awards Ceremony from 9 a.m. to noon **Friday, February 8**, at H-GAC Conference Room B, Second Floor. The summit will include presentations about various H-GAC programs that can provide goods, services, technical assistance, and funding for parks and natural areas projects.



The 2018 Parks and Natural Areas Awards ceremony will follow the presentations. The 13th annual awards ceremony will honor projects in three categories: Planning Process, Projects Over \$500,000, and Projects Under \$500,000.

A light breakfast will be served. [Online registration](#) is requested. Registration and breakfast begin at 8:30 a.m., followed by the H-GAC program presentations at 9 a.m. The awards program will be followed by networking with H-GAC staff and other parks professionals.

For more information, contact Andrea Tantillo at 832-681-2507.

Public Meetings Set for 2045 RTP: Moving Our Region into Tomorrow



Learn what's next for the 2045 Regional Transportation Plan (RTP) at an upcoming public meeting.

A list of [meeting times and locations](#) is available online. During the public meetings, panel of transportation experts will discuss future transportation projects selected from the recent [2018 Call for Projects](#). The panel will also talk about air quality and conformity initiatives, regional resiliency efforts, and the estimated releases date for the 2045 RTP draft plan. For more information, [watch the 2045 RTP video](#).

Texas Stream Team Training - February 15



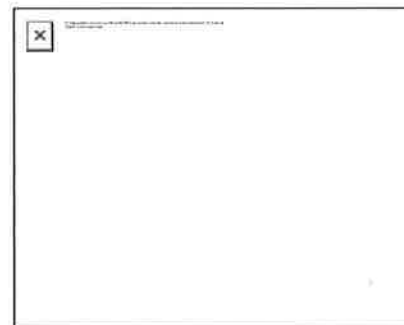
H-GAC is hosting a [Texas Stream Team](#) volunteer water quality monitor training from 9 a.m. to 4 p.m. **Friday, February 15**, at Buffalo Bayou Partnership, 1019 Commerce Street, Houston.

[Registration](#) is open and limited to 10 volunteers. Please share this information with friends and colleagues who might have an interest in becoming a volunteer water quality monitor, especially in the eastern part of Houston and Harris County.

More than 400 Texas Stream Team volunteers, including about 100 in the Houston-Galveston region, collect water quality data on lakes, rivers, and streams as part of this statewide program.

[Learn more](#) about getting involved in Texas Stream Team and sign up for the trainings online or by contacting stream.team@h-gac.com.

Coastal Communities Water Quality Outreach Workgroup Meeting - February 19



Save the date for the next H-GAC [Coastal Communities](#) Water Quality Outreach Workgroup meeting at 2 p.m. **Wednesday, February 20**, at Alvin Community College.

Representatives from city and county governments, schools, and community groups in Brazoria, Chambers, Galveston, and Matagorda counties are invited to become part of the group. Participants can network with outreach and education

partners and other governments about starting a conversation with residents to prevent water pollution in their communities.

Contact [Becki Begley](#) at 713-993-2410 to be added to the contact list for this group.

Solid Waste Workshop Series: Environmental Enforcement - February 21

H-GAC will host a [Solid Waste Workshop](#) focusing on environmental enforcement from 8:30 a.m. to 12:30 p.m. **Thursday, February 21**, at [H-GAC](#) Conference Room B, Second Floor. Continuing Education Units (CEUs) will be offered.



Topics for the workshop include:

- Using Technology
- Putting Together a Case for Court
- Challenges of Rural Enforcement
- How Code Enforcement and Peace Officers Can Work Together
- Preventing Future Illegal Dumping
- Overview of Environmental Enforcement Law

Registration is requested. For more information, contact [Becki Begley](#) at 713-993-2410.

[Future workshops](#) will focus on recycling, food waste recovery, and special wastes.

Coastal Basin Bacteria Reduction Meetings - February 21, March 12

H-GAC and the Texas Commission on Environmental Quality invite area stakeholders to help create a plan to reduce high concentrations of bacteria found in two coastal basins. Meetings to discuss sources of bacteria, form committees to consider options to reduce bacteria, and develop plans to act on those options are scheduled for two of the impacted watersheds.



[Caney Creek/Linville Bayou \(Basin 13\)](#)

February 21

5 to 7 p.m.

Bay City Civic Center

201 Seventh Street, Bay City

[Oyster Creek \(Basin 11\)](#)

March 12

2 to 4 p.m.

Brazoria County Library-Lake Jackson

250 Circle Way, Lake Jackson

Bacteria concentrations above the state's water quality standards for contact recreation pose a potential risk to people coming into contact through fishing, swimming or wading. H-GAC needs input from local governments, permit holders, and residents to make these plans successful.

For more information, contact [Steven Johnston](#) at 832-681-2579.

Clean Waters Initiative - February 26

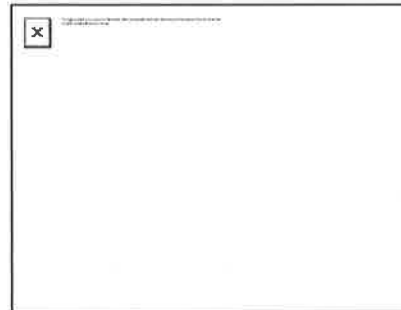


The next [Clean Waters Initiative \(CWI\) workshop](#) will be from 10 a.m. to 1 p.m. **Tuesday, February 26**, at [H-GAC Conference Room B, Second Floor](#). The topic will be [Funding Opportunities for Water/Wastewater Infrastructure](#). Speakers from funding agencies will discuss various grant and loan programs. The workshop will consist of two hours of presentations, followed by an optional hour-long meet-and-greet to allow attendees to meet one-on-one with representatives to ask specific questions and pick up applications and informational literature in an open house-style setting.

The CWI program offers workshops that help local governments, landowners, and residents develop effective strategies to reduce pollution in area waterways.

[Registration](#) is requested. For more information, contact [Brian Sims](#) at 713-993-2438.

International Management District Livable Centers Study Kick Off - February 2, 9, and 28



H-GAC and project partners will kick off the [International Management District Livable Centers Study](#) this month. The study will analyze existing conditions in the boundaries of the International Management District and make recommendations that guide future land use and transportation investments in the area.

Specifically, the study seeks to identify ways that the district can create a more walkable, mixed-use, transit-served neighborhood that is both a destination and a great place to live, work, and play.

H-GAC staff will discuss the project at three upcoming events:

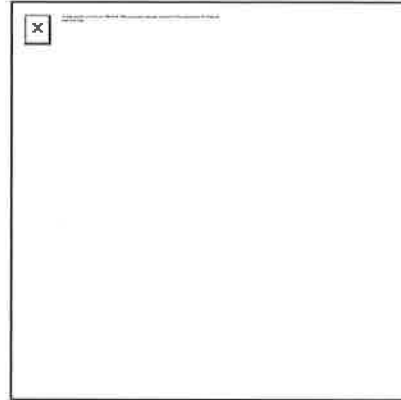
- [Texas International Lunar Festival](#) from 11 a.m. to 5 p.m. **Saturday, February 2**, at 11122 Bellaire Blvd., Houston
- [TexAsia Lunar New Year](#) from 10 a.m. to 5 p.m. **Saturday, February 9**, at 8388 W Sam Houston Parkway South, Houston
- **Public Meeting #1**, at 6:30 p.m. **Thursday, February 28**, Elsik Ninth Grade Center Cafeteria, 6767 S. Dairy Ashford, Houston

For more information, contact [Anita Hollmann](#) at 713-993-4587.

Trash Bash - March 30

The [River, Lakes, Bays 'N Bayous Trash Bash](#) will be from 8 a.m. to noon **Saturday, March 30**. There are [16 locations](#), including a new site in Lake Jackson. Visit the [Trash Bash website](#) to find out where to volunteer, get registration information, donate online to support the cleanup, and more.

Groups of 10 or more can complete a [group reservation](#) to let the site coordinator know in advance. Individual registration on the day of the event is still required for each member of the group. All volunteers get a t-shirt, lunch, cleanup supplies, chances to win door prizes, and opportunities to learn more about preventing water pollution.



Bringing Back Main Street Roundtable - April 23

Save the date for H-GAC's next [Bringing Back Main Street Roundtable](#) scheduled from 9:30 a.m. to noon **Tuesday, April 23**. The location and topic are to be determined.

H-GAC hosts quarterly roundtables to help local governments, chambers of commerce, and economic development interests promote the economic revitalization of downtown areas.

For more information, contact [Joey Kaspar](#) at 713-993-4547.



Announcements

Deadline to Submit WISE Awards Application is February 7

H-GAC will accept [Water Innovation Strategies of Excellence \(WISE\) Awards](#) until **Thursday, February 7**.

The [WISE Awards](#) are a new initiative honoring innovative strategies and projects in the Houston-Galveston region that serve as models for improving water quality in four categories: Planning and Policy; Education and Public Awareness; Built Project (Greater than \$500k); and Built Project (Less than \$500k). Winning projects must exhibit efficiency, effectiveness, and innovation.

For more information, visit www.h-gac.com/go/wise or e-mail [Kathy Janhsen](#).

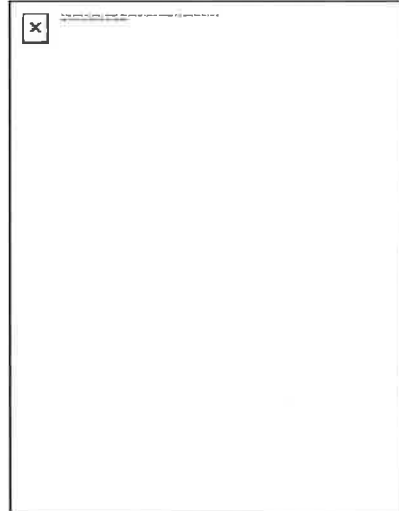


H-GAC Releases 2018 Regional Land Cover Data

The Community and Environmental Planning GIS program at H-GAC developed the 2018 Regional Land Cover Data.

The dataset was developed based on 2017 and 2018 LandSat 8 Operational Land Imager (OLI) and the Thermal Infrared Sensor (TIRS) scenes of 30-meter resolution acquired from the USGS. Four scenes with 0 to 5 percent cloud cover were used to cover the entire area. Using supervised and unsupervised classification techniques in ENVI remote sensing package and ArcGIS Image Analysis Extensions, the imageries were classified into 10 major land cover classes. Classification classes were determined based on the NOAA and NLCD land cover classification schemes. The output cell size is in 30-meter resolution.

The [data is available for download](#).



EPA Accepts West Fork San Jacinto River and Lake Creek Watershed Protection Plan

The U.S. Environmental Protection Agency has accepted the [West Fork San Jacinto River and Lake Creek Watershed Protection Plan](#), which is now in implementation.

The focus of the plan is reducing bacteria, improving dissolved oxygen, and raising awareness of water quality in the West Fork San Jacinto River and Lake Creek watersheds. H-GAC, the Texas Commission on Environmental Quality, and local partners developed the plan as a voluntary means of addressing water quality issues that affect local health, economy, and environment.

H-GAC is working with local partners to schedule a series of educational and outreach events to move forward voluntary recommendations in the plan. For more information, contact [Justin Bower](#) at 713-499-6653.



Plans Underway to Begin Watershed Protection Plan for Cypress Creek

H-GAC is beginning a watershed protection plan project for Cypress Creek. The project will take place over two years and will build on work done during the West Fork San Jacinto River and Lake Creek Watershed Protection Plan project.

H-GAC is developing the scientific data needed to support stakeholder discussions and will schedule the first meeting in the spring. The project will focus on voluntary ways to improve water quality in the Cypress Creek watershed with a focus on reducing bacteria levels, improving dissolved oxygen, and addressing other stakeholder concerns.



Cypress Creek is a primary tributary of Lake Houston, which serves as a popular recreation destination and drinking water source for many communities in Houston.

For more information, contact [Justin Bower](#) at 713-499-6653.

Our Great Region 2040 Award Winners

H-GAC presented the [Our Great Region Awards](#) in January to recognize outstanding projects focusing on transportation, the environment, economic development, resiliency, housing, and healthy communities.

- **The Excellence Award** - Avenue Community Development Corporation for their *Avenue to Opportunity project*. This award, the highest honor, recognizes the project best advancing the vision of the [Our Great Region 2040 plan](#).
- **The Connection Award** - Harris County Transit- RIDES Program for the *RIDES Program*. This award honors projects advancing two or more of the [Our Great Region 2040 plan's](#) strategies through innovative partnerships.
- **The Diligence Award** - West Houston Association for the *West Houston 2060 Plan*. This award honors an implemented project executing a creative and tenacious approach to overcome challenges to implementation.
- **The Opportunity Award** - Texas A&M University for their *Resilience Through Regeneration Project*. This award honors a project helping to overcome disparities in access to opportunity.
- **The Reach Award** - City of Houston for the *Complete Communities Project*. This award honors a project demonstrating exemplary public participation.



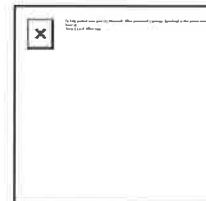
Avenue Community Development Corporation received the Excellence Award.

More information about the [Our Great Region Awards](#) is available online.

Partner Announcements

Texas Homeowner Assistance Program

Assistance may be available for homeowners whose homes were damaged by Hurricane Harvey through the [Texas Homeowner Assistance Program](#). Complete the application in person at the [Montgomery County Mobile Intake Center](#), at the East Montgomery County Courthouse, 21130 U.S. Highway 59, New Caney, Texas. Program representatives will be available from 9 a.m. to 4 p.m. on Mondays. Individuals affected by Hurricane Harvey may qualify for assistance through the program to repair, rehabilitate, or rebuild if they owned their home, it was damaged or destroyed by Hurricane Harvey, and it was their primary residence at the time of the storm, among other eligibility factors. Applications are available online or may be completed in-person. For more information, visit recovery.texas.gov/hap or call 1-844-893-8937.



Exhibitor Registration Open for Earth Day Houston

[Early registration for exhibitors for Earth Day Houston at Discovery Green](#) is open through **Thursday, February 14**. Hosted by Discovery Green Conservancy in partnership with Citizens' Environmental Coalition, and sponsored by Green Mountain Energy, this year's event will be from noon to 5 p.m. Sunday, April 14. Featuring exhibits, bands, food, speakers, and more, the 2019 celebration supports Discovery Green's mission of providing free events that promote a healthy environment and sustainable operations. Exhibitor space is limited, and the price to register increases on Friday, February 15. Exhibitor Registration closes Thursday, March 14.



Scenic City Applications Available

H-GAC and Scenic Texas support vibrant, healthy communities across the state. Partnering with Scenic Texas and other agencies to form the [Scenic City Certification Program](#) has been a natural fit for H-GAC. See the full roster of certified Scenic Cities and review program requirements by exploring www.sceniccitycertification.org. The 2019 application is now available for review, and the 2019 application period ends **Sunday, March 31**.



Keep Texas Beautiful Awards

Each year, [Keep Texas Beautiful](#) honors Texas communities, businesses, schools, media outlets, and individuals who work to keep the environment clean. Learn more about the [Individual and Organization Awards](#), the [Governor's Community Achievement Awards](#), and the [Youth and Educator Awards](#). Applications are due in February and April.



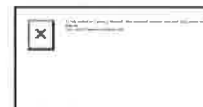
Treasures of the Texas Coast Art Contest

The Texas General Land Office Adopt-A-Beach program invites kindergarten-sixth grade students to participate in the annual [Treasures of the Texas Coast Children's Art Contest](#). The purpose of this contest is to encourage young artists to learn about natural resources along the Texas coast. The deadline to enter is **Friday, March 1**.



Take Care of Texas Art Contest

The Texas Commission on Environmental Quality is hosting the [Take Care of Texas Art Contest](#) for kindergarten-fifth grade students to depict positive ways to help keep the air and water clean, conserve water and energy, and reduce waste. The deadline to enter is **Friday, March 1**.



More Upcoming Events

EIH Surface Water Quality Monitoring Techniques Course

The Environmental Institute of Houston at the University of Houston-Clear Lake is offering a [two-part training course focusing on surface water quality monitoring techniques](#). This course will cover methods and protocols outlined in the Texas Commission on Environmental Quality's Surface Water Quality Monitoring guidelines. The partial course (**March 18**) will cover fundamental techniques for water quality and hydrological monitoring. The full course (**March 18-21**) will cover additional techniques and protocols. Each course day will consist of classroom and field-based instruction.

[Registration](#) closes **Monday, March 4**. For more information, email EIH@uhcl.edu or call 281-283-3950.

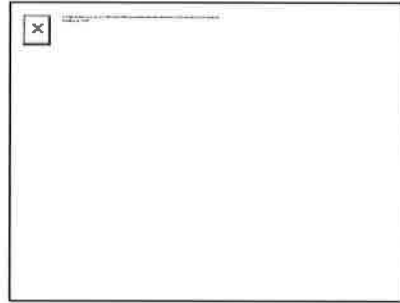


Funding Sources

H-GAC Wastewater Assistance Program Helps Homeowners

H-GAC's [Wastewater Assistance Program](#) offers funding for the repair or replacement of conventional septic or aerobic wastewater systems in the 13-county H-GAC planning region. Homeowners who meet certain income restrictions are eligible.

For more information, contact [Brian Sims](#) at 713-993-2438 or learn [more about maintaining these systems](#).



Financial Assistance Available Through AirCheck Texas

The AirCheck Texas - Drive a Clean Machine Program is designed to help motorists in Brazoria, Fort Bend, Harris, Galveston, and Montgomery counties comply with vehicle emissions standards.

[AirCheck Texas](#) offers financial incentives to repair or replace currently driven vehicles. An applicant will receive both a financial and environmental benefit while contributing to air quality solutions by removing older vehicles from Texas roadways.

For more information, visit www.aircheckhouston.com or call 832-681-2527.



EPA Environmental Justice Small Grants Program

The U.S. Environmental Protection Agency's [Environmental Justice Small Grants Program](#) provides funding directly to community-based organizations for projects that help residents of underserved communities understand and address local environmental and public health issues.

Projects should engage, educate, and empower communities to better understand local environmental and public health issues and develop strategies for addressing those issues, building consensus in the community, and setting community priorities.

Applications are due **Friday, February 15**.



Texas Clean Fleet Program Grant Funding

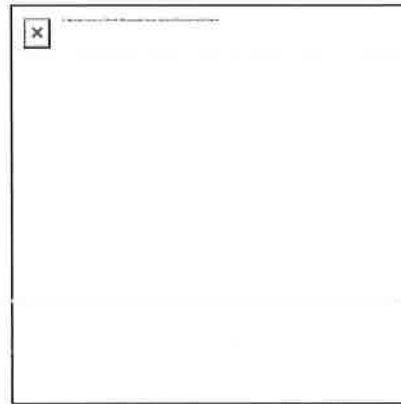
The Texas Commission on Environmental Quality's [Texas Clean Fleet Program](#) is offering approximately \$7.7 million in grants to encourage businesses that operate large fleets of vehicles in Texas to replace diesel-powered vehicles with alternative fuel or hybrid vehicles. Applications are due **Monday, February 18**.



For more information, e-mail terp@tceq.texas.gov or call 800-919-TERP (8377).

Transportation Alternatives, Safe Routes to Schools Funding Programs

The Texas Department of Transportation (TxDOT) announces an upcoming call for projects for bicycle and pedestrian infrastructure. Two sources of funding will be included: Transportation Alternatives (TA) \$10.6M and Safe Routes to Schools (SRTS) \$8.7M.



Eligible projects include sidewalks, bikeways, shared use paths, traffic calming measures, and other safety improvements for non-motorized travel.

The 2019 TA/SRTS Call for Projects will have a two-step process:

- Preliminary Project Applications will be due in April 2019
- Detailed Project Applications will be due in August 2019

For more information, including eligibility requirements and upcoming workshops, visit [TxDOT's Bicycle and Pedestrian Funding web page](#).

TxDOT and H-GAC will host an informational workshop from 9 a.m. to noon **Thursday, February 14**, at the Johnny Arolfo Civic Center, 400 W. Walker, League City.

Rural Utilities Service Water & Environmental Programs

The [USDA's Rural Utilities Service Water and Environmental Programs \(WEP\)](#) has \$165,475,000 in supplemental grant funding available for repairs to drinking water systems and sewer and solid waste disposal systems impacted by Hurricanes Harvey, Irma, and Maria.



Applications will be **accepted on a continual basis** until funds are exhausted. Entities wishing to apply for assistance or needing additional information should contact:

USDA Rural Development State Office
Federal Building, Suite 102
101 South Main, Temple, TX 76501

(254) 742-9700/TDD (254) 742-9712

Local water and sewer departments having workforce challenges to recruit and retain qualified workers within the Houston-Galveston region are encouraged to contact [Traci Nolen](#) at 713-993-2468.

EDA Harvey Recovery Grants

The U.S. Economic Development Administration's (EDA) Austin regional office received \$129,119,000 in supplemental funding for disaster relief and is actively seeking projects to help communities in the Houston-Galveston region recover from Hurricane Harvey.



The recently released [Notice of Funding Opportunity](#) outlines the requirements, which include the following:

- Projects require a 20 percent match, which can include in-kind contributions
- Typical projects will range from \$1-\$2.5 million
- Applications are accepted on a rolling basis
- Projects must demonstrate a nexus to Harvey in terms of economic recovery or resilience
- Eligible applicants include governments, nonprofits, and universities

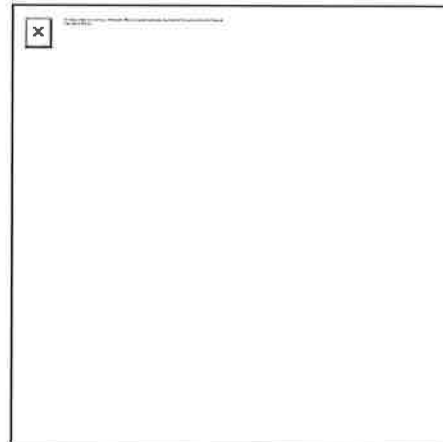
For more information, contact [Robert Peche](#) of the EDA.

Additional Funding Opportunities

H-GAC has compiled a list of [local, regional, state, federal, and private funding sources](#) for local governments and other organizations. H-GAC also maintains a list of ongoing [funding opportunities for parks improvements](#).

If you know of a funding opportunity, forward it to [Andrea Tantillo](#).

All content, including links to websites, is for informational purposes only. Users of this content are responsible for checking its accuracy, currency, and suitability.



Community and Environmental Planning Programs

Mapping Applications

Looking for interactive applications or GIS data related to the H-GAC Community and Environmental Planning Department? Visit H-GAC's [interactive applications web page](#) to see the latest information, including Census, Regional Forecast, and more.



Facebook

H-GAC has a [Facebook page](#) where information about current and upcoming events is posted. Please visit and like H-GAC's page. While there, visit other H-GAC pages on Facebook, including [Recycling](#), [Trash Bash](#), [Regional Data Lab](#), [Bacteria Implementation Group \(BIG\)](#), [West Fork Watersheds Partnership](#), and [Cedar Bayou Watershed Partnership](#).



Twitter

Find the latest information about activities around the region at H-GAC's Twitter feed [@hgaccog](#). H-GAC's water resources program also offers Twitter updates on water quality issues in the region [@HGACwater](#).



All meetings scheduled at H-GAC conference rooms are at [3555 Timmons Lane, Houston, Texas](#).

Banner Photo: Seagull on the beach on Bolivar Peninsula. Photo by Jeff Taebel

Would you like us to consider featuring your municipality, program, or regional photo on the C&E Planning Update banner? Just forward [Andrea Tantillo](#) your picture, along with some information about the subject and the photographer, and you might see it in a future month's newsletter.

STAY CONNECTED:



Houston-Galveston Area Council, PO Box 22777, Houston, TX 77227-2777

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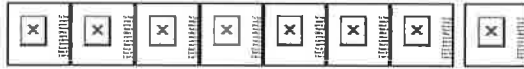


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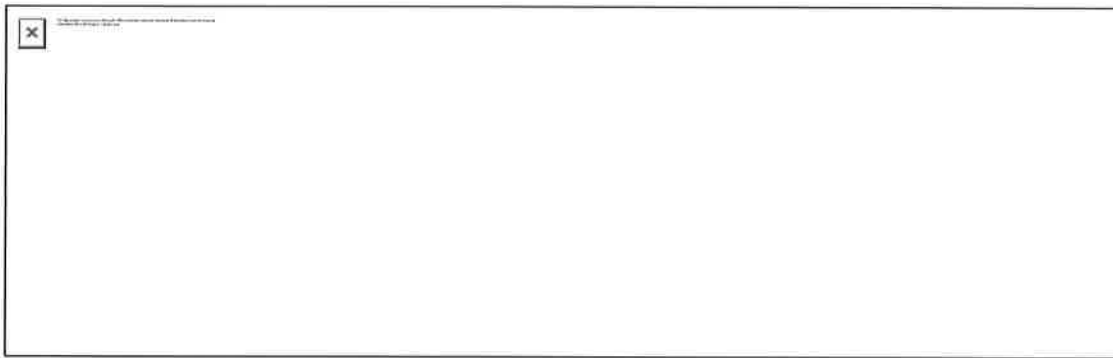
Johnston, Steven

From: Houston-Galveston Area Council <rick@h-gac.ccsend.com> on behalf of Houston-Galveston Area Council <andrea.tantillo@h-gac.com>
Sent: Friday, March 1, 2019 9:35 AM
To: Johnston, Steven
Subject: Your March H-GAC C&E newsletter is here!

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Keeping you up to date on the community planning, economic development, and environmental planning programs at H-GAC.

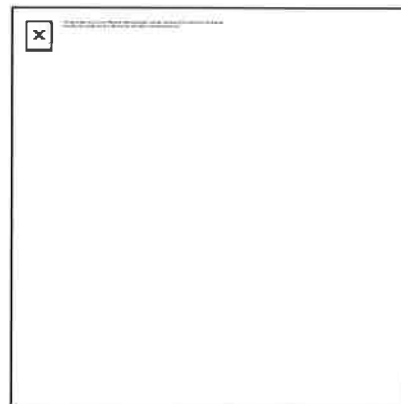


Your Monthly News & Updates

Announcements

Elementary School Recycling Books, Stickers Available

H-GAC offers a printable, 16-page activity book for children with recycling-themed puzzles and activities. The book for [early elementary](#) includes word search games, mazes, connect the dots, and coloring pages. The book for [late elementary](#) includes word search games, mazes, math mashups, and secret code deciphering. Answer pages are included in both books. Coordinating stickers are also available.



The books can be printed from the website. Books and stickers can be picked up at the H-GAC offices with advance notice. Contact [Becki Begley](#) at 713-993-2410 for more information or to request printed books and stickers.

H-GAC Adds Regional Sidewalk Layer to GIS Datasets

H-GAC recently created the region's first geographic information system (GIS) dataset of sidewalks across Brazoria, Chambers, Fort Bend, Galveston, Harris, Liberty, Montgomery, and Waller counties.

The GIS layer shows where sidewalks are present, and the data are available to the public.

For more information and to access the GIS layer, contact [Clint McManus](#).



Upcoming Events

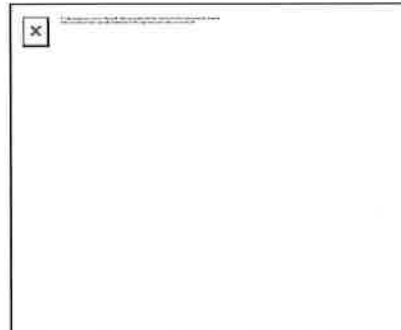
Parks and Natural Areas Roundtable - March 11

The next Parks and Natural Areas Roundtable will be from 1:30 to 3:30 p.m. **Monday, March 11**, at H-GAC Conference Room A, Second Floor. Speakers include:

- Dominic Cashiola, automation tools for parks and natural areas
- Mike McMahan, Harris County Precinct 3, John Paul Landing Park (PNA award winner)
- Joey Kaspar, H-GAC staff update

The PNA Roundtable serves as a forum for discussion of issues related to parks and natural areas, promotes the PNA Award Program, and maintains a regional inventory of parks. The PNA roundtable facilitates information exchange and planning efforts between various stakeholders and collaborators to protect and preserve parks and natural areas across the region.

[Online registration](#) is requested. For more information, contact [Andrea Tantillo](#) at 832-681-2507.



Coastal Basin Bacteria Reduction Meeting - March 12

H-GAC and the Texas Commission on Environmental Quality invite area stakeholders to a meeting to discuss creating a plan to reduce high concentrations of bacteria found in Oyster Creek (Basin 11) from 2 to 4 p.m.

Tuesday, March 12, at the Brazoria County Library-Lake Jackson, 250 Circle Way, Lake Jackson.

Participants will hear information on sources of bacteria and will discuss forming committees to consider options to reduce bacteria and developing plans to act on those options.



Bacteria concentrations above the state's water quality standards for contact recreation pose a potential risk to people coming into contact with water through fishing, swimming or wading. H-GAC needs input from local governments, permit holders, and residents to successfully develop plans to reduce these high bacteria concentrations.

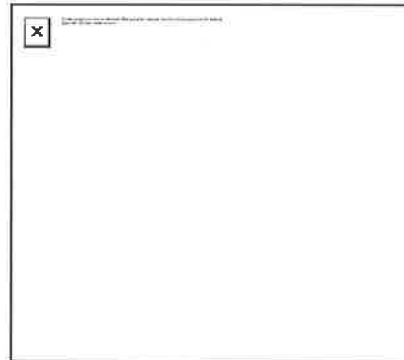
For more information, contact [Steven Johnston](#) at 832-681-2579.

Houston Regional GIS Expo - March 28

The [2019 Houston Regional Geographic Information Systems \(GIS\) Expo](#) will be from 8 a.m. to 3 p.m.

Thursday, March 28, at Houston Transtar, 6922 Katy Road, Houston.

The Houston Regional GIS Expo is presented by H-GAC's Geographic Data Workgroup and Houston Transtar. The event represents GIS technologies across a 13-county area of Southeast Texas.



The Expo will bring together academics, government officials, engineers, nonprofit organizations, and other practitioners engaged in GIS and related technologies to network and showcase their work. All proceeds raised from the Houston Regional GIS Expo will support the Houston Area GIS Day, an annual event for area high school students in November.

The Expo is free to attend, and sponsor, exhibitor, and speaker spots are still available. For more information, visit www.houstonareagisexpo.org.

Trash Bash - March 30

The [River, Lakes, Bays 'N Bayous Trash Bash](#) will be from 8 a.m. to noon **Saturday, March 30**. All volunteers get a t-shirt, lunch, cleanup supplies, chances to win door prizes, and opportunities to learn more about preventing water pollution.

Watch a [30-second promotional video](#) or visit the [Trash Bash website](#) to find out how to volunteer at one of [16 locations](#), get registration information, and donate online to support the cleanup.



Groups of 10 or more can complete a [group reservation](#) in advance. Individual registration on the day of the event is still required for each member of the group.

Bringing Back Main Street Roundtable - April 23

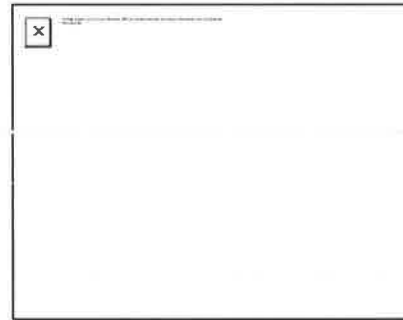


Save the date for H-GAC's next [Bringing Back Main Street Roundtable](#) scheduled from 9:30 a.m. to noon **Tuesday, April 23**. The Texas Masonry Council will share information and resources for local communities looking to replace existing building facades or construct new masonry buildings in their downtowns. The location will be announced soon.

H-GAC hosts quarterly roundtables to help local governments, chambers of commerce, and economic development interests promote the economic revitalization of downtown areas.

For more information, contact [Joey Kaspar](#) at 713-993-4547.

Solid Waste Workshop Series on Recycling - May 16



Save the date for the next H-GAC [Solid Waste Workshop](#) from 8:30 a.m. to 12:30 p.m. **Thursday, May 16**, at H-GAC Conference Room B, Second Floor. The workshop will focus on recycling, and topics include addressing contamination and challenging markets.

H-GAC's [Solid Waste Workshop Series](#) provides information on a variety of solid waste topics. Upcoming topics include Food Waste (August 22) and Special Waste (November 21).

For more information, contact [Becki Begley](#) at 713-993-2410.

Clean Waters Initiative - May 22



Save the Date for the next [Clean Waters Initiative](#) workshop from 10 a.m. to noon **Wednesday, May 22**, at H-GAC Conference Room B, Second Floor. The topic will be announced soon.

The CWI program offers workshops that help local governments, landowners, and residents develop effective strategies to reduce pollution in area waterways.

For more information, contact [Brian Sims](#) at 713-993-2438.

Partner Announcements

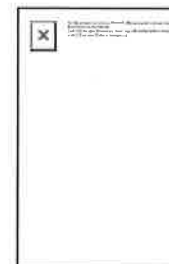
Texas Homeowner Assistance Program Continues

Assistance may be available for homeowners whose homes were damaged by Hurricane Harvey through the [Texas Homeowner Assistance Program](#). Individuals affected by Hurricane Harvey may qualify for assistance through the program to repair, rehabilitate, or rebuild if they owned their home, it was damaged or destroyed by Hurricane Harvey, and it was their primary residence at the time of the storm, among other eligibility factors. Applications are available online or may be completed in-person. For more information, visit recovery.texas.gov/hap or call 1-844-893-8937.



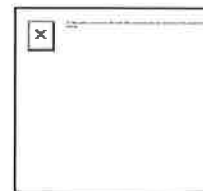
Exhibitor Registration Open for Earth Day Houston

[Earth Day Houston](#), hosted by Discovery Green Conservancy in partnership with Citizens' Environmental Coalition and sponsored by Green Mountain Energy, will be from noon to 5 p.m. **Sunday, April 14**. Organizations can sign up to exhibit at this event to present their products and missions to an estimated 10,000 people at the festival at Houston's Discovery Green. Exhibitors will be on Avenida de las Americas (between Discovery Green and George R. Brown Convention Center). The deadline to [register as an exhibitor](#) is **Friday, March 15**.



Scenic City Applications Due March 31

H-GAC and Scenic Texas support vibrant, healthy communities across the state. Partnering with Scenic Texas and other agencies to form the [Scenic City Certification Program](#) has been a natural fit for H-GAC. See the full roster of certified Scenic Cities and review program requirements by exploring www.sceniccitycertification.org. The 2019 application period ends **Sunday, March 31**.



Keep Texas Beautiful Awards Due April 2

Each year, [Keep Texas Beautiful](#) honors Texas communities, businesses, schools, media outlets, and individuals who work to keep the environment clean. Applications for the [Youth and Educator Awards](#) open **Tuesday, March 5**, and close **Tuesday, April 2**.



Composting Council Offers National Scholarship

The Composting Council Research & Education Foundation (CCREF) application period to apply for a compost research scholarship closes **Friday, April 12**. The [CCREF National Compost Research Scholarship](#) program is open to all U.S. college or university students. The scholarship is \$4,000 and includes an invitation to present research findings at the US Composting Council Annual Conference. The ideal candidate will have an interest in improving the compost process and the application and the utilization of finished compost to increase drought tolerance, soil nutrient content, reducing erosion and water pollution, and increasing carbon storage in soils to combat climate change.



Get Involved With Trash Free Texas

[Trash Free Texas](#) works to keep trash out of area waterways by working with communities and organizations across the state to connect people to places that need routine litter cleanup activities. Local governments and organizations can get involved with this [Adopt-a-Spot online interactive mapping application](#) that identifies chronically-littered locations that need to be adopted and matching those spots with volunteers to keep them cleaned up. For more information about getting submitting new spots or adopting a spot in the Houston-Galveston region, contact [Becki Begley](#) at 713-993-2410.



More Upcoming Events

Galveston Bay Foundation Native Plants Gardening Workshop Series

The Galveston Bay Foundation will host a workshop series to gather input on what is an acceptable list of plants based on different ecological regions in the Houston-area with the goal of developing a "Native Plants Gardening Toolkit for Non-Gardeners." The first workshop in the series will be a forum for nurseries and landscapers in the region and will be an opportunity to discuss the information, programs, and services offered by private businesses and non-profit organizations to residents of the region. The workshop will be from 9 a.m. to noon **Thursday, March 14**, at H-GAC Conference Room B, Second Floor. RSVP by March 7 is requested by emailing [Ted Driscoll](mailto:Ted.Driscoll).



EIH Surface Water Quality Monitoring Techniques Course

The Environmental Institute of Houston at the University of Houston-Clear Lake is offering a [two-part training course focusing on surface water quality monitoring techniques](#). This course will cover methods and protocols outlined in the Texas Commission on Environmental Quality's Surface Water Quality Monitoring guidelines. The partial course (**March 18**) will cover fundamental techniques for water quality and hydrological monitoring. The full course (**March 18-21**) will cover additional techniques and protocols. Each course day will consist of classroom and field-based instruction. [Registration](#) closes **Monday, March 4**. For more information, email EIH@uhcl.edu or call 281-283-3950.



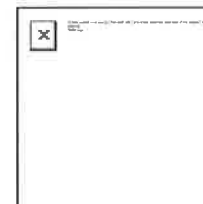
Urban Land Institute UrbanPlan Session

[Urban Land Institute Houston](#) will host an UrbanPlan session at its Urban Marketplace on **Wednesday, March 27**, at the Marriott Marquis on Walker Street in downtown Houston. UrbanPlan for public officials and local decision makers is an interactive dialogue about the fundamental forces that affect the built environment and the leadership roles played by elected and appointed officials. The workshop enables public officials to better understand the tradeoffs and risks in the entitlement and negotiation process associated with land use, particularly in public/private partnerships. [Registration](#) is required.



Texas Emergency Management Conference

The Texas Division of Emergency Management will host the [Texas Emergency Management Conference April 15 to 18](#) at the Henry B. Gonzalez Conference Center, 900 East Market Street, San Antonio. The [conference schedule](#) and [list of workshops](#) are posted online. A [photo contest](#) is open until **Friday, March 29**, for submissions. For more information, [email the event organizers](#). Registration is \$200 and is required.



Adopt-A-Beach

Save the date for [Adopt-A-Beach Spring Cleanup](#) on **Saturday, April 13**, at various Texas beaches. This annual event by the Texas General Land Office encourages volunteers to help keep beaches clean and pristine. Since the program began in 1986, more than 529,000 volunteers have removed 9,600 tons of trash from Texas beaches. [Registration and a list of cleanup locations](#) will be available online soon.



DEA Prescription Take Back

The U.S. Drug Enforcement Administration (DEA) will host its [National Prescription Drug Take Back](#) event in communities across the country from 10 a.m. to 2 p.m. **Saturday, April 27**. The national event aims to provide a safe, convenient, and responsible means of disposing of prescription drugs, while also educating the general public about the medications and the potential for abuse. A list of collection sites will be available on the DEA website **Monday, April 1**.



Trash and Marine Debris Summit

The third [Houston-Galveston Regional Trash and Marine Debris Summit](#) will be from 9:30 a.m. to 3 p.m. **Tuesday, May 7**, at the Houston Zoo. At the summit, the action plan will be reviewed, a geographic focus will be finalized, a name for the group will be determined, and data collection goals for the plan will be identified. Input from local governments, organizations, business and industry, and area residents is needed to make the plan more comprehensive and effective. Contact DontTrashAGoodThing.org for more information.



Funding Sources

H-GAC Wastewater Assistance Program Helps Homeowners

H-GAC's [Wastewater Assistance Program](#) offers funding for the repair or replacement of conventional septic or aerobic wastewater systems in the 13-county H-GAC planning region. Homeowners who meet certain income restrictions are eligible.

For more information, contact email ossf@h-gac.com or [learn more about maintaining these systems](#) online.



Financial Assistance Available Through AirCheck Texas

The AirCheck Texas - Drive a Clean Machine Program is designed to help motorists in Brazoria, Fort Bend, Harris, Galveston, and Montgomery counties comply with vehicle emissions standards.

[AirCheck Texas](#) offers financial incentives to repair or replace currently driven vehicles. An applicant will receive both a financial and environmental benefit while contributing to air quality solutions by removing older vehicles from Texas roadways.

For more information, visit www.aircheckhouston.com or call 832-681-2527.



Transportation Alternatives, Safe Routes to Schools Funding Programs

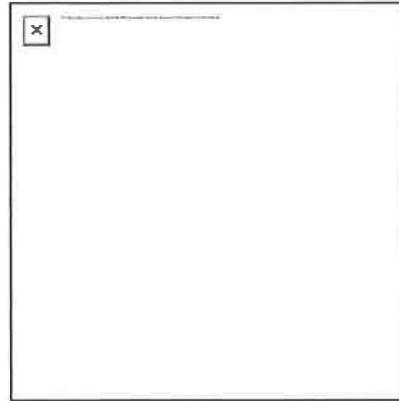
The Texas Department of Transportation (TxDOT) announces an upcoming call for projects for bicycle and pedestrian infrastructure. Two sources of funding will be included: Transportation Alternatives (TA) \$10.6M and Safe Routes to Schools (SRTS) \$8.7M.

Eligible projects include sidewalks, bikeways, shared use paths, traffic calming measures, and other safety improvements for non-motorized travel.

The 2019 TA/SRTS Call for Projects will have a two-step process:

- Preliminary Project Applications will be due in April 2019
- Detailed Project Applications will be due in August 2019

For more information, including eligibility requirements, visit [TxDOT's Bicycle and Pedestrian Funding web page](#).



Communities Connect Program Grants

The U.S. Department of Agriculture (USDA) Rural Development is accepting applications for grants to establish broadband infrastructure in unserved rural communities. The [Community Connect Program](#) helps rural communities extend access where broadband service is least likely to be commercially available, but where it can make a tremendous difference in the quality of life for people and businesses. State and local governments, federally-recognized tribes, nonprofits, and for-profit corporations are eligible to apply. Grants awarded through this program must be used to provide broadband service at a minimum rate-of-data transmission of 25 megabits downstream and 3 megabits upstream, which is the speed benchmark for broadband connectivity adopted by the Federal Communications Commission. Awardees must also use their USDA funding to offer free broadband service to all critical community facilities and a community center in their proposed service area for two years. The minimum grant amount is \$100,000; the maximum amount is \$3 million. Applicants must be able to provide a 15 percent match on the desired grant amount. The deadline to apply is **April 15, 2019**. For additional information about the current application window, see the [Funding Opportunity Announcement](#). Applicants are also encouraged to review the [Community Connect Grant Program Application Guide for Fiscal Year 2019](#) for details on how to complete a successful application.



Rural Utilities Service Water & Environmental Programs

The USDA's Rural Utilities Service Water and [Environmental Programs \(WEP\)](#) has \$165,475,000 in supplemental grant funding available for repairs to drinking water systems and sewer and solid waste disposal systems impacted by Hurricanes Harvey, Irma, and Maria.

Applications will be **accepted on a continual basis** until funds are exhausted. Entities wishing to apply for assistance or needing additional information should contact:

USDA Rural Development State Office
Federal Building, Suite 102
101 South Main, Temple, TX 76501
(254) 742-9700/TDD (254) 742-9712

Local water and sewer departments having workforce challenges to recruit and retain qualified workers within the Houston-Galveston region are encouraged to contact [Traci Nolen](#) at 713-993-2468.

Regional Innovation Strategies Program

The U.S. Economic Development Administration is [accepting applications](#) for this year's Regional Innovation Strategies (RIS) Program. Cities, counties, and nonprofits are included in eligible applicants. The program has two separate challenges:



- FY19 i6 Challenge - catalyzing high-growth entrepreneurship throughout the country, the i6 Challenge awards up to \$750,000 for projects that increase regional capacity to accelerate the translation of innovations, ideas, intellectual property, and research into products, services, companies, and jobs.
- FY19 Seed Fund Support (SFS) Grant Competition - unlocking risk capital for entrepreneurs and startups to grow, SFS grants provide up to \$300,000 for projects that create, launch, or expand equity-based seed funds or that create networks and tools that enable capital to flow into high-growth startups in all parts of the United States.

The RIS Program is managed by the Office of Innovation and Entrepreneurship, and more information can be found on the [RIS webpage](#).

EDA Harvey Recovery Grants

The U.S. Economic Development Administration's (EDA) Austin regional office received \$129,119,000 in supplemental funding for disaster relief and is actively seeking projects to help communities in the Houston-Galveston region recover from Hurricane Harvey.

The recently released [Notice of Funding Opportunity](#) outlines the requirements, which include the following:

- Projects require a 20 percent match, which can include in-kind contributions
- Typical projects will range from \$1-\$2.5 million
- Applications are accepted on a rolling basis
- Projects must demonstrate a nexus to Harvey in terms of economic recovery or resilience
- Eligible applicants include governments, nonprofits, and universities

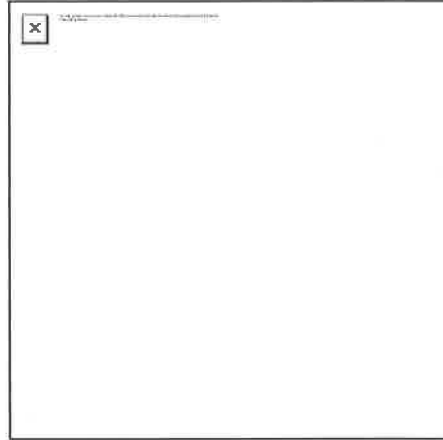
For more information, contact [Robert Peche](#) of the EDA.

Additional Funding Opportunities

H-GAC has compiled a list of [local, regional, state, federal, and private funding sources](#) for local governments and other organizations. H-GAC also maintains a list of ongoing [funding opportunities for parks improvements](#).

If you know of a funding opportunity, forward it to [Andrea Tantillo](#).

All content, including links to websites, is for informational purposes only. Users of this content are responsible for checking its accuracy, currency, and suitability.



Community and Environmental Planning Programs

Mapping Applications

Looking for interactive applications or GIS data related to the H-GAC Community and Environmental Planning Department? Visit H-GAC's [interactive applications web page](#) to see the latest information, including Census, Regional Forecast, and more.



Facebook

H-GAC has a [Facebook page](#) where information about current and upcoming events is posted. Please visit and like H-GAC's page. While there, visit other H-GAC pages on Facebook, including [Recycling](#), [Trash Bash](#), [Regional Data Lab](#), [Bacteria Implementation Group \(BIG\)](#), [West Fork Watersheds Partnership](#), and [Cedar Bayou Watershed Partnership](#).



Twitter

Find the latest information about activities around the region at H-GAC's Twitter feed [@HouGalvAreaCog](#). H-GAC's water resources program also offers Twitter updates on water quality issues in the region [@HGACwater](#).



All meetings scheduled at H-GAC conference rooms are at [3555 Timmons Lane, Houston, Texas](#).

Banner Photo: Volunteers pick up trash at the Little White Oak Bayou site during Trash Bash in 2018. Volunteers can take part in this year's clean up at 16 locations across the region.

Would you like us to consider featuring your municipality, program, or regional photo on the C&E Planning Update banner? Just forward [Andrea Tantillo](#) your picture, along with some information about the subject and the photographer, and you might see it in a future month's newsletter.

STAY CONNECTED:



Houston-Galveston Area Council, PO Box 22777, Houston, TX 77227-2777

[SafeUnsubscribe™ steven.johnston@h-gac.com](#)
[Forward this email](#) | [Update Profile](#) | [About our service provider](#)
Sent by [andrea.tantillo@h-gac.com](#) in collaboration with



Try it free today

Johnston, Steven

From: Johnston, Steven
Sent: Thursday, February 14, 2019 2:44 PM
To: dudep@brazoria-county.com; dwebb@lakejacksontx.gov; sara_beery@brazosportisd.net; nikkisterling01@gmail.com; jhminkent@att.net; catherinesweet@ymail.com; chevychip@yahoo.com; 99kevans@gmail.com; acondon@integritimtgs.com; travis.walthall@gmail.com; kbull002@comcast.net; jwpric@ascendmaterials.com; runkermirun@nwcable.net
Cc: Begley, Rebecca; Janhsen, Kathy
Subject: Oyster Creek Bacteria Reduction Committee

Good Afternoon –

Each of you has expressed some interest in participating in the effort to reduce bacteria in Oyster Creek. I wish to thank you for your interest.

I would like to convene the first meeting of the Oyster Creek Coordination Committee.

Date: Tuesday, March 12, 2019

Time: 2:00 – 4:00 PM

Location: Brazoria County Library System – Lake Jackson (250 Circle Way, Lake Jackson, TX 77566)

The membership for this committee has not been completely set. If you know of an organization or individual that you feel will assist our efforts, please reach out to them and invite them.

Also, please let me know if this time slot (same as the meeting in January) will work for you in the future or if there is a better time. We will discuss the scheduling of future meetings at the March meeting and will adjust accordingly.

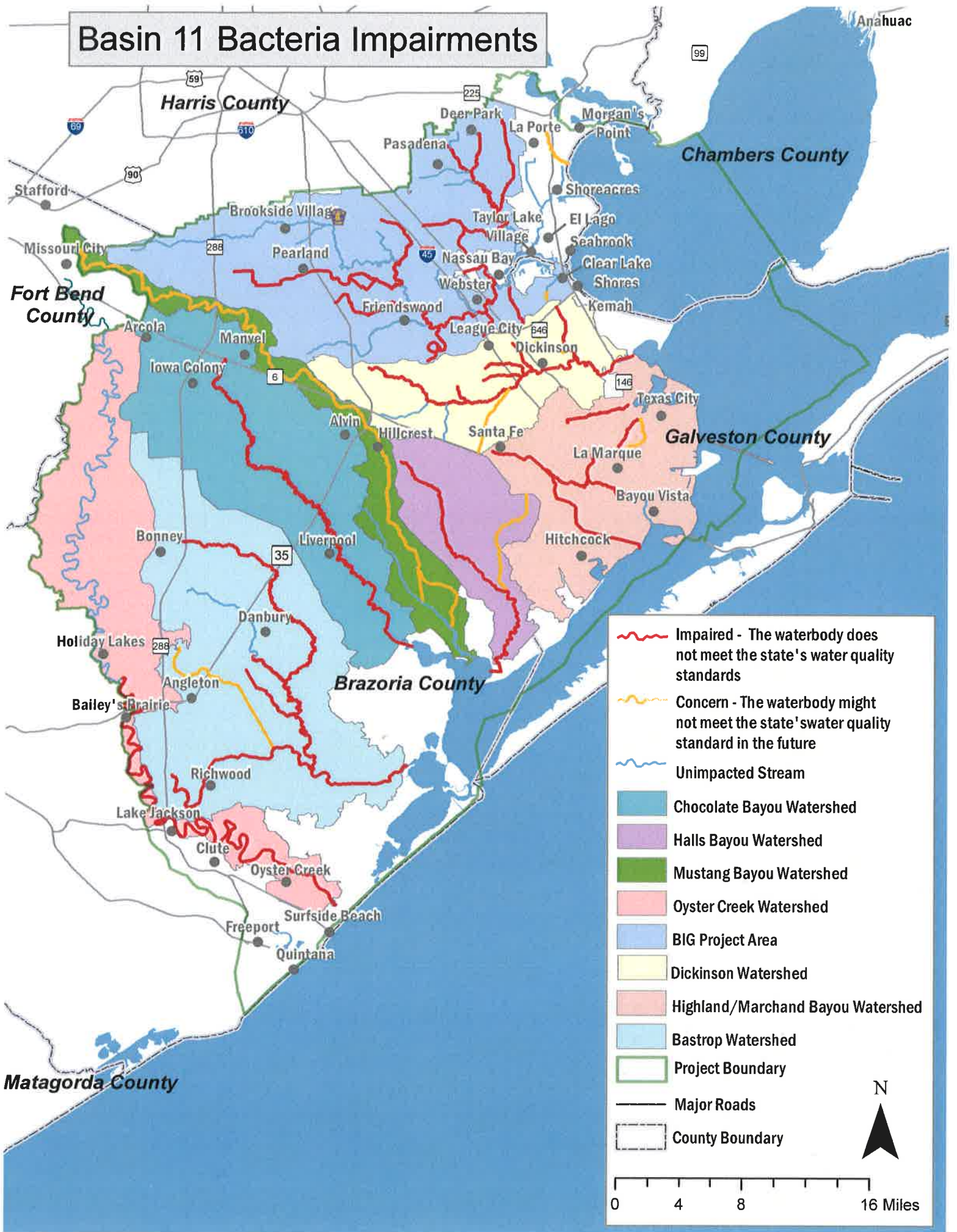
Thanks for your time and I look forward to working with you.







Sincerely,

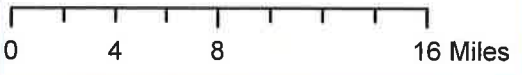
Steve

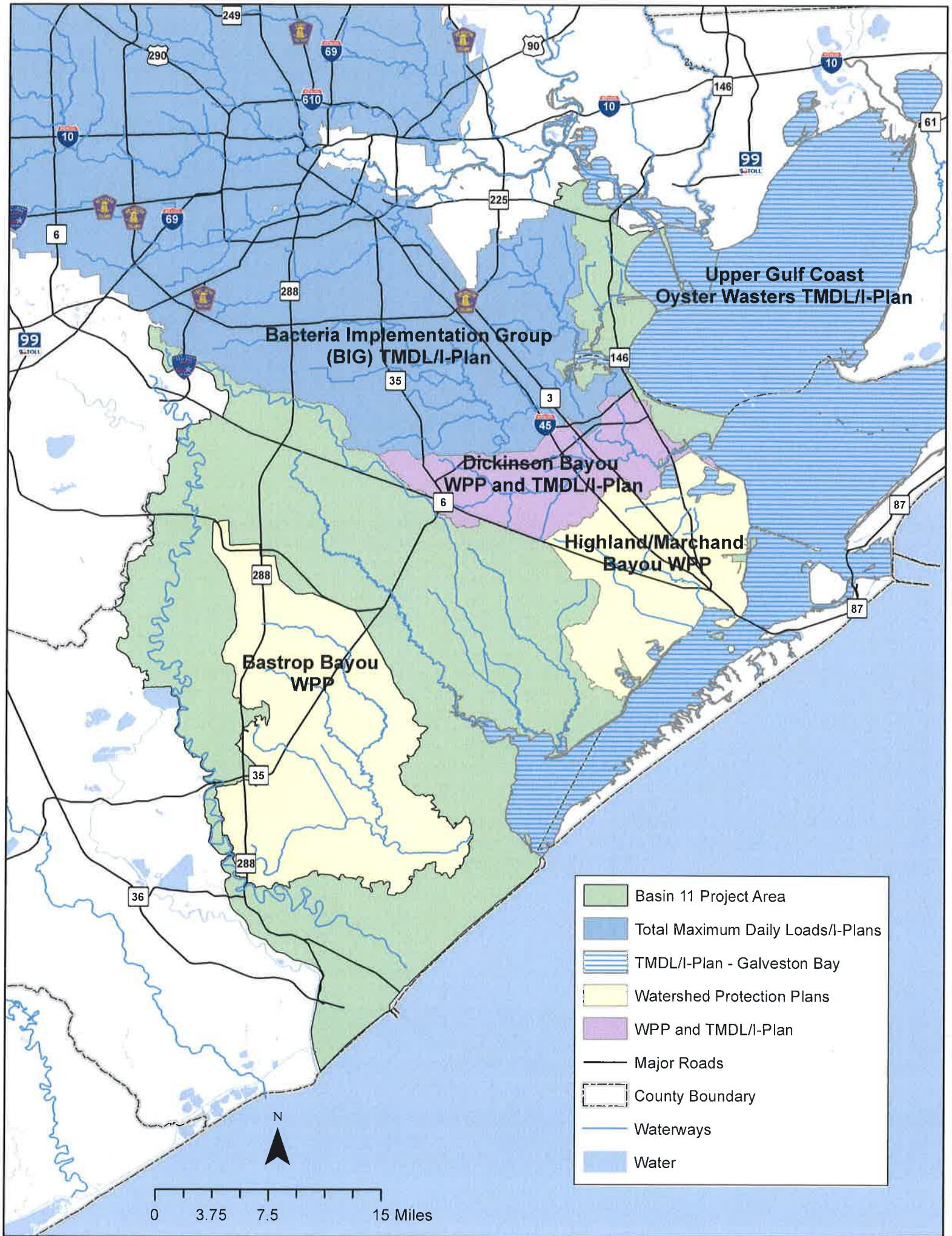
Steven Johnston
Senior Planner
Community & Environmental Department | Houston-Galveston Area Council
3555 Timmons, Suite 120 Houston, TX 77027 | www.h-gac.com
832.681.2579 | 713.627.3200 | fax: 713.993.4503
steven.johnston@h-gac.com
<http://h-gac.com/community/water/tmdl/big/default.aspx>

Basin 11 Bacteria Impairments



-  Impaired - The waterbody does not meet the state's water quality standards
-  Concern - The waterbody might not meet the state's water quality standard in the future
-  Unimpacted Stream
-  Chocolate Bayou Watershed
-  Halls Bayou Watershed
-  Mustang Bayou Watershed
-  Oyster Creek Watershed
-  BIG Project Area
-  Dickinson Watershed
-  Highland/Marchand Bayou Watershed
-  Bastrop Watershed
-  Project Boundary
-  Major Roads
-  County Boundary







ADDRESSING BACTERIA IMPAIRMENTS IN
BASINS 11 AND 13


Natural Resource Advisory
Committee

February 6, 2019



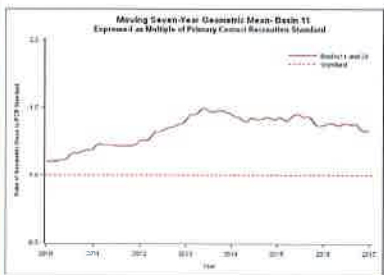
BASIN 11

Bacteria



Map of Basin 11 showing various water quality monitoring points and locations. The map includes a legend for 'Point Sources', 'Non-Point Sources', 'Watershed', 'Watershed Boundary', and 'County Boundary'. A text box on the map states: 'Watershed: Aquatic Life Losses in the watershed are generally low but may be high in some areas. Stream: Aquatic life losses are generally low but may be high in some areas. Basin: Aquatic life losses are generally low but may be high in some areas.' The map is credited to 'FPCO, TCO, and the Natural Resource Advisory Committee'.

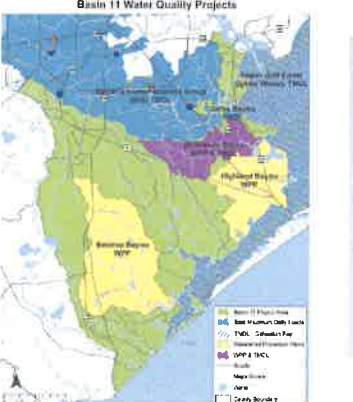
Bacteria Trends



Moving Seven-Year Geometric Mean-Basin 11
Expressed as Multiple of Primary Control Resource Standard

Line graph showing Bacteria Trends from 2010 to 2017. The Y-axis is 'Ratio of Indicator Bacteria to PCR Standard' (0.0 to 2.0). The X-axis is 'Year' (2010 to 2017). Two lines are plotted: 'Indicator and PC' (solid line) and 'Standard' (dashed line). The 'Indicator and PC' line starts at approximately 0.8 in 2010, rises to about 1.5 by 2013, and then fluctuates between 1.4 and 1.6 through 2017. The 'Standard' line is constant at 1.0.

Basin 11 Watershed Planning




Basin 11 Water Quality Projects

Map of Basin 11 showing various water quality projects and planning areas. The map includes a legend for 'Basin 11 Planning Area', 'Basin Maximum Daily Loads', 'TPCQ - Watershed Plan', 'Watershed Protection Plans', 'WSP & TSCC', 'Watershed', 'Major Roads', 'Aerial', and 'County Boundary'. The map is credited to 'FPCO, TCO, and the Natural Resource Advisory Committee'.

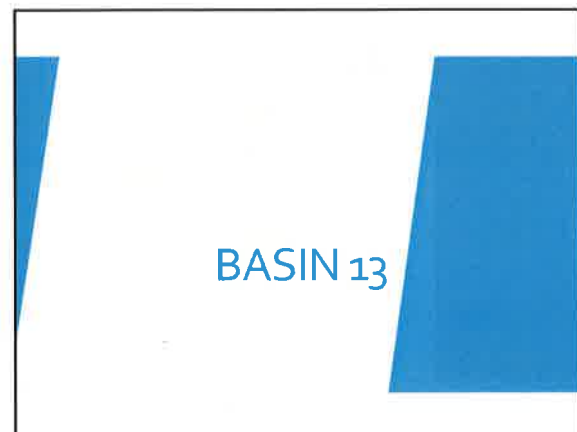
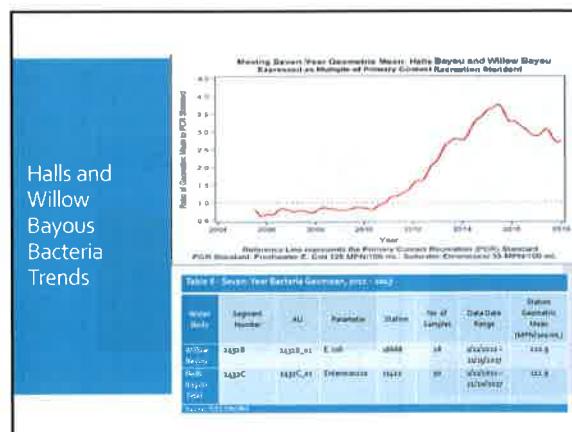
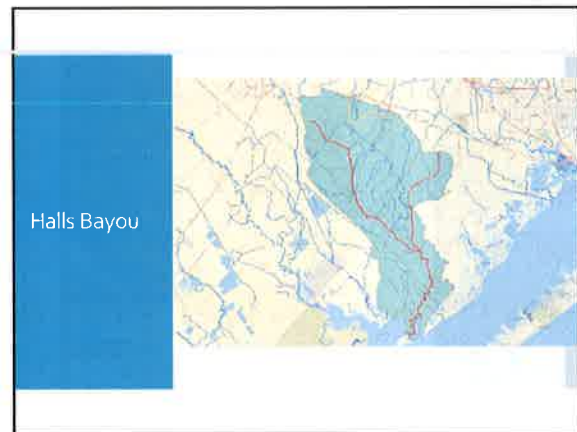
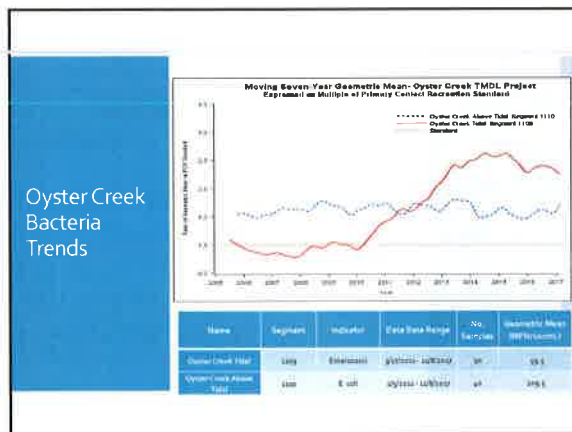
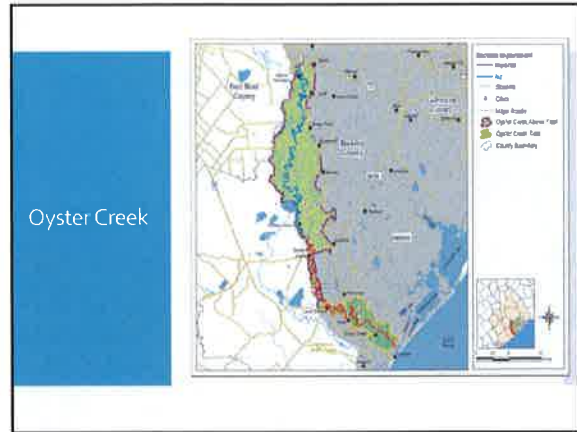
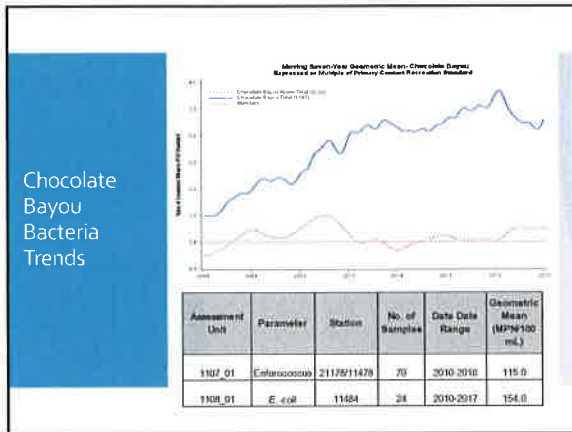
Chocolate Bayou Status

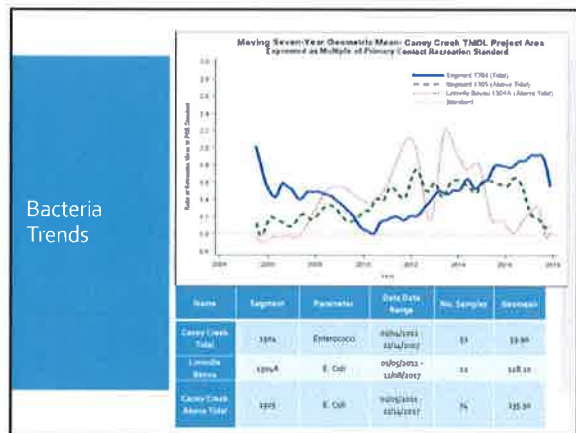
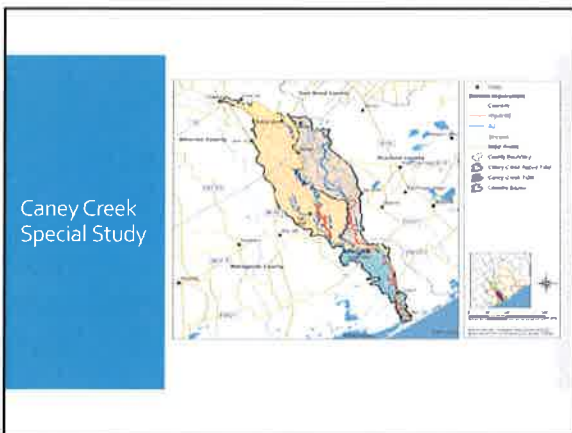
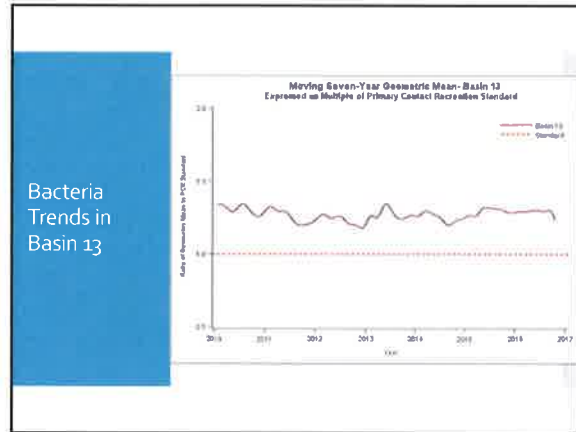
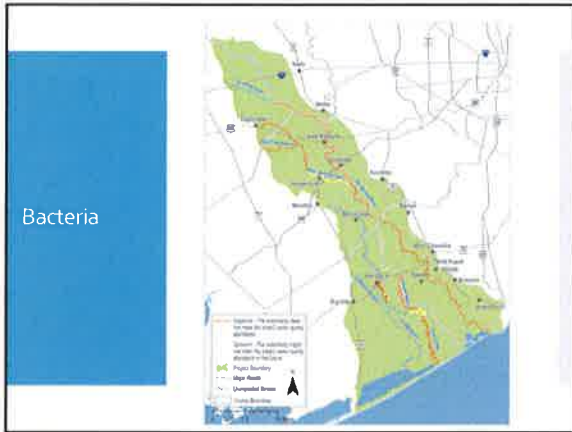
Technical Support Document for Total Maximum Daily Loads for Indicator Bacteria in the Chocolate Bayou Watershed

Segments: 1107 and 1108



July 2017





- Coastal Communities
 - Watershed Assessment (2007)
- OSW SEP
 - Watershed Assessment
- Trash/Trash (Lake Jackson)
 - Watershed Assessment
- Leak Study Team
- Workshops
 - Watershed Assessment (July 2007)
 - OSW (July 2012)
 - Watershed Assessment (June 2013)
 - Ag/Forest Mgmt

THANK YOU!

Steven Johnston
H-GAC
832.581.2578
steven.johnston@h-gac.com

H-GAC ICGO



Houston-Galveston Area Council

June 19, 2019

Jazmin Milford (MC 203)
TMDL Project Manager
Water Quality Division
Texas Commission on Environmental Quality
12100 Park 35 Circle, Bldg. F
Austin, Texas 78753

RE: June 2019 Progress Report for Contract 582-18-81222, Work Order 4, Basin 11.

Dear Ms. Milford:

Enclosed is one (1) copy of the FY 2019 3rd Progress Report for Contract No. 582-18-81222-4. It covers all deliverable/task activities for the project period March 1, 2019 through May 31, 2019. Financial Statements, HUB report and Voucher will be submitted separately.

Included in this Report are:

1. One copy of the progress report for March 1, 2019 thru May 31, 2019.
2. Copies of meeting summaries and other pertinent materials from project related meetings.

We hope you find the quarterly report satisfactory. Any comments you have will be appreciated. If you have any questions, please contact me by phone (713-993-4549) or E-mail (todd.running@h-gac.com).

Sincerely,

Todd Running
Water Resources Program Manager
Community & Environmental Planning Dept.

CC Jason Leifester
Chis Loft

TR/srj
Enclosures

**TMDL Program
FY 2019 3rd Progress Report**

Date: June 19, 2019

Time Period Covered: 3/01/2019 – 05/31/2019

Name of Project: Basin Approach to Address Bacterial Impairments in the San Jacinto – Brazos Coastal Basin (Basin 11)

Contract No./Work Order 582-18-81222-04

TASK #1. PROJECT ADMINISTRATION

Deliverable(s)	Due Date	Status
List all deliverables under the task described above	List the due dates for each deliverable	If the deliverable has been completed, enter the date submitted to the TCEQ. If the deliverable has not been completed, briefly describe the status of each deliverable.
Quarterly/Monthly Progress Report	June 15, 2019	Monthly report for Work Order submitted electronically on June 19, 2019
Invoice	June 15, 2019	Invoices will be submitted under another cover.
Project Updates	Weekly	Provided for March 2019 thru Jun.2019.

Work Performed This Period – detail all activities for this task and briefly describe the progress on each deliverable:

Work performed for this task during this period included writing and assembling the monthly report. Copies of weekly emails are attached.

TASK #2. PUBLIC EDUCATION AND OUTREACH

Deliverable(s)	Due Date	Status
List all deliverables under the task described above	List the due dates for each deliverable	If the deliverable has been completed, enter the date submitted to the TCEQ. If the deliverable has not been completed, briefly describe the status of each deliverable.
Development of meeting materials (Task 2.1)	Invitation letters, emails, press releases, and informational materials announcing meeting/event.	Oyster Creek CC meetings were held on March 12 th and May 23 rd . Meeting announcements, press releases, and emails were prepared within a month prior to meeting. Materials shared with TCEQ prior to the meeting.
Host two or more watershed stakeholder meetings (Task 2.2)	As needed	<ul style="list-style-type: none"> • A public meeting was held on November 14, 2018. • Oyster Creek stakeholder meeting was held on January 29, 2019. • Oyster Creek CC meeting was held on March 12, 2019. • Oyster Creek CC meeting was held on June 23, 2019.
Copies of agendas and presentations for meetings (Task 2.3)	Due 2 weeks before distribution	An Agenda was incorporated within each presentation. A draft presentation for the March 12 th meeting was shared with TCEQ on 3/5/2019. A draft presentation for the May 23 rd meeting was shared on 5/16/2019.
Summary of meetings (Task 2.4)	Within 2 weeks after meetings	A brief summary was included with the weekly report. Full summary is included for each meeting with this report.
List of general stakeholders (Task 2.5)	Maintain and update as appropriate. Provide to TCEQ when requested.	Maintained and updated.
Facilitate delivery of Education programs (Task 2.6)	One or more during work order period.	No Update.
Public participation/outreach summaries (Task 2.7)	With PRs	Provided in discussion below.

Work Performed This Period – detail all activities for this task and briefly describe the progress on each deliverable:

Work related to this task focused on planning for the Oyster Creek CC meetings held on March 12, 2019 at the Brazoria County Public Library in Lake Jackson, TX and May 23, 2019 at the Brazoria County Public Library in Angleton, TX. This included: (Copies of the meeting materials and meeting summary attached to this report)

- Updating potential stakeholder contact information
- Identifying and scheduling a meeting location
- Drafting meeting announcement and press release
- Emailing meeting announcement and press release and follow-up
- Creating the meeting agenda and presentation

March 12, 2019 – ten stakeholders attended the coordination committee meeting. H-GAC provided a presentation that covered Oyster Creek water quality impairments, bacteria sources, load duration curves, TMDL load allocations, and types of watershed-based plans. The attendees were provided copies of completed watershed-based plans to review, highlight management measures and to discuss the results of their review with others in attendance.

May 23, 2019 – ten stakeholders attended the coordination committee meeting. H-GAC staff provided a brief update on the Oyster Creek TMDL document and TSD and included information on source loadings. H-GAC pasted out a bacteria reduction measure questionnaire for attendees to fill out and discuss.

In addition to the two meetings held during the quarter, staff prepared for the Basin 11 Leadership Forum. The goal of the forum is to provide an opportunity for stakeholders that lack the time to meet on the smaller watershed level to meet a couple of times a year and review and provide feedback on draft watershed-based plans. The Forum will be held on June 13, 2019 in Alvin. Staff developed a local government and permittee stakeholder list. The meeting announcement was sent out via letter to over 300 addresses. The outreach included targeted calls and emails to the watersheds being targeted for TMDL I-Plans.

TASK #3 DEVELOP OR UPDATE QAPPs FOR ACQUIRED DATA AND MONITORING DATA

Deliverable(s)	Due Date	Status
List all deliverables under the task described above	List the due dates for each deliverable	If the deliverable has been completed, enter the date submitted to the TCEQ. If the deliverable has not been completed, briefly describe the status of each deliverable.
Acquired Data QAPP Amendments (Task 3.1)	As needed.	None required.
Acquired Data QAPP Update (Task 3.2)	As needed	Annual update for FY2018 submitted to TCEQ in early September. Approval made in October.
QAPP CARs (Task 3.3)	As needed	None required.
Quality assurance audits (Task 3.4)	Will participate as needed	None required for the quarter.

Work Performed This Period

Received a copy of the QAPP update shell. The QAPP update will begin in July.

TASK #4 TECHNICAL SUPPORT DOCUMENT FOR HALLS BAYOU

Deliverable(s)	Due Date	Status
List all deliverables under the task described above	List the due dates for each deliverable	If the deliverable has been completed, enter the date submitted to the TCEQ. If the deliverable has not been completed, briefly describe the status of each deliverable.
Draft TSD for Halls Bayou (Task 4.1)	January 15, 2019	Staff completed the draft TSD and submitted to the TCEQ on 1/15/2019.
Final TSD for Halls Bayou	Within two weeks of receipt of TCEQ comments on draft.	Received comments on 2/28/2019.

Work Performed This Period – detail all activities for this task and briefly describe the progress on each deliverable:

H-GAC completed revisions to the draft Halls Bayou TSD during this reporting period. The document was resubmitted to TCEQ in May.

TASK #5 TMDL SUPPORT FOR CHOCOLATE BAYOU ADOPTION

Deliverable(s)	Due Date	Status
List all deliverables under the task described above	List the due dates for each deliverable	Final progress report and evaluation submitted to TCEQ
TMDL support (Task 5.1)	As needed	Modifying the TSD and TMDL.

Work Performed This Period – detail all activities for this task and briefly describe the progress on each deliverable:

H-GAC completed revisions to the LDCs and recalculated the TMDL. The TMDL document and TSD were revised and updated based on new information, including watershed boundary revisions, changes to data based on the new boundaries, revisions to the LDCs and the recalculated TMDLs. The TMDL document and TSD were resubmitted in May.

H-GAC staff began preparing stakeholders for the eventual TMDL document and I-Plan. Staff scheduled a Chocolate Bayou TMDL CC meeting for June 13, 2019. Meeting announcement to the members were sent out during this quarter.

TASK #6 WATERSHED CHARACTERIZATION REPROT FOR MUSTANG BAYOU

Deliverable(s)	Due Date	Status
List all deliverables under the task described above	List the due dates for each deliverable	Final progress report and evaluation submitted to TCEQ
Draft Characterization Report (Task 6.1)	June 15, 2019	Data and information gathering was completed this quarter.
Final Characterization Report (Task 6.2)	Within two weeks of receipt of TCEQ comments on draft.	No progress.

Work Performed This Period – detail all activities for this task and briefly describe the progress on each deliverable:

Data and information gathering was completed during this quarter. Staff began to write the draft characterization report.

TASK #7 TMDL AND DEVELOPMENT OF SPECIFIC KEY ELEMENTS FOR A WPP FOR OYSTER CREEK

Deliverable(s)	Due Date	Status
List all deliverables under the task described above	List the due dates for each deliverable	Final progress report and evaluation submitted to TCEQ
Draft Oyster Creek TMDL (Task 7.1)	June 1, 2019	Draft TMDL document was initiated during the quarter.
Oyster Creek Work Group Meetings (Task 7.2)	One to four, as needed.	Coordination committee meetings – March 12, 2019 and May 23, 2019.
Final Oyster Creek TMDL and Key Elements WPP	Two weeks after receipt of TCEQ comments.	No progress reported.

Work Performed This Period – detail all activities for this task and briefly describe the progress on each deliverable:

Staff hosted two Oyster Creek Coordination Committee meetings: March 12, 2019 at the Brazoria County Public Library in Lake Jackson and May 23, 2019 at the Brazoria County Public Library in Angleton. For more information on these two meetings, please see Task Two and the included meeting summaries. Staff prepared for the meetings during this report period which included utilizing information developed for Task 7.

During the quarter, Staff updated the TMDL TSD to revise the LDCs using updated flow for Chocolate Bayou. Flow data from Chocolate Bayou is used to assist in estimating continuous flow on Oyster Creek. Contributions from WWTFs and agricultural source withdraws in Chocolate Bayou were estimated and used to revise flow on Chocolate Bayou. Additionally, EIH has maintained the height gauge on Oyster Creek since 2017. The flow curve developed using this water level gauge should be more accurate with the additional 1.5 years of data to inform it. This information was used to revise the LDCs and update the TMDL calculations.

The draft Oyster Creek TMDL document was started during this quarter the will be submitted in June. The key elements of a WPP were also started. Source load calculations were completed, and source reduction values were estimated.

TASK #8 SUPPORT OF TEXAS STREAM TEAM PROGRAMS

Deliverable(s)	Due Date	Status
List all deliverables under the task described above	List the due dates for each deliverable	Final progress report and evaluation submitted to TCEQ
Organize trainings and provide monitoring kits (Task 8.1)	Provide summaries with PRs	A training event was scheduled for May 11, 2019. The event was canceled due to the threat of hazardous weather.
Target volunteer efforts (Task 8)	Provide summaries with PRs	No progress in this quarter.

Work Performed This Period – detail all activities for this task and briefly describe the progress on each deliverable:

H-GAC scheduled a TST training event at Brazosport College on May 11, 2019. The event was cancelled due to the threat of hazardous weather conditions. The event is being rescheduled for September, based on meeting space availability at the college.

PROJECT RELATED MEETINGS, WORKSHOPS, TRAINING OR EVENTS

- 1) Presentations:
 - a. None.
- 2) Meetings, Events and Conferences:
 - a. March 30, 2019 – Rivers, Lakes, Bays, and Estuaries TrashBash©. Staff attended the first event location for Oyster Creek at Dunbar Park in Lake Jackson. Provided general water quality outreach, including pet waste, FOG and low impact development management measures.
 - b. April 27, 2019 – City of Pearland Earth Day. Staff provided general water quality outreach, including pet waste, and FOG management measures.
 - c. May 18, 2019 – Bay Day at Kemah Boardwalk. Staff provided general water quality outreach, including pet waste, and FOG management measures.
 - d. May 23, 2019 – staff led the Coastal Communities’ Regional Stormwater Quality Education Workgroup in Angleton.
 - e. June 12, 2019 - Staff continue to meet with TX AgriLife collaborate on a green infrastructure workshop for Basin 11 in Pearland.
- 3) Associated Implementation Projects and Programs
 - a. H-GAC’s OSSF SEP is continues to work in the area. Two repair/replace projects are planned for the community of Holiday Lakes on Oyster Creek.
 - b. Staff are coordinating with a Coastal Communities project supported by the TCEQ 319 Program. Focus of the project is to provide stormwater outreach materials to local governments/political subdivisions in the coastal zone that do not have a MS4 permit. Work under this grant has led to coordination with Brazosport College to bring TST and OSSF training and outreach to the communities in south Brazoria County. Also, H-GAC has received local contributions from DOW and Olin companies to support this effort. This resulted in the purchase of 25 pet waste stations for Lake Jackson (15) and Brazosport College (10) for community parks. Additional funds will be spent on OSSF repair/replace and pump outs.

BRIEF DESCRIPTION OF OVERALL FINDINGS:

Work for this period focused on hosting two Oyster Creek Coordination Committee meetings. In addition, staff completed the continuous flow update for Chocolate Bayou that removed inter basin flows used for drinking and wastewater and added back in irrigation from Chocolate Bayou water rights users. This modified flow was used to adjust the Chocolate Bayou and Oyster Creek LDCs. Staff also completed revisions to the TMDL calculations for Chocolate Bayou and Oyster Creek. The adjustments were needed to address the change in flow and in the case of Chocolate Bayou, to address the new watershed boundary, which is based on NHDplus. H-GAC completed the Chocolate Bayou TMDL document and TSD revision and resubmitted the documents to TCEQ. The Oyster Creek TMDL document due June 1, 2019 will include the new LDCs and revised TMDL calculations. Work began to revise the Oyster Creek TSD during the period. The Halls Bayou TSD was resubmitted to TCEQ in May after addressing comments.

Significant Problems (describe any scheduling shortfalls, detail significant problems and how these problems were resolved, etc.):

The number of projects using GIS, LDC and source load resources began to slow work product. Delays in completing revisions to the LDCs have hindered progress on analysis and writing some of the document text. H-GAC will work to get caught up on all deliverables in June. The Oyster Creek TMDL will be delivered in June and the WPP elements will be delivered by July 9, 2019. The Mustang Bayou Characterization Report will be delivered by July 12, 2019. A recent staff addition with a GIS background is being cross trained to perform the analysis and provide a back-up to resolve this issue going forward.

Johnston, Steven

From: Johnston, Steven
Sent: Tuesday, March 5, 2019 4:14 PM
To: 'Jazmyn Milford'
Cc: Jason Leifester (Jason.leifester@tceq.texas.gov); Chris Loft
Subject: FY 19 WO #4 Weekly Report (Feb 25 - Mar 1)
Attachments: OysterCreek1292019.pdf

Good Afternoon, Jazmyn – Below you will find the weekly report for Work Order #4 under 582-18-81222. Please let me know if you have any questions.

Feb. 25th – Mar. 1st:

Task 1 Project Administration

- **Anticipate Spend Down August 2019?:** Yes.
- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$180,000
- **Total Spent to Date: (Jan. 31, 2019)** \$93,504.34 **Remaining Budget Amount:** \$86,495.66

Task 2 Public Education and Outreach Activities

- Preparing for Oyster Creek Coordination Committee Meeting March 12, 2019 2-4 Lake Jackson (draft presentation attached).
- Chocolate Bayou stakeholder meeting being planned for April. April 10, 2019, 2-4 Alvin – Brazoria County Public Library.
- 15 Pet waste stations are being purchased through the Coastal Communities 319 grant. Ten Stations will be placed in parks within the City of Lake Jackson city limits. Five stations will be placed on a walking trail along Oyster Creek on the Brazosport College campus.

Task 3 Quality Assurance

- No updates.

Task 4 TSD for Halls Bayou Tidal

- TCEQ PM provided comments to the draft TSD. Will begin to address the week of March 4th.

Task 5 TMDL Support for Chocolate Bayou Adoption

- Continued to revise TMDL document and TSD. Corrected flow data to account for return flows and to remove contributions from transfers (WWTF effluent, etc.). LDCs revised. Addressing changes to the TMDL calculations.
- Chocolate Bayou stakeholder meeting April 10, 2019.

Task 6 Watershed Characterization Report for Mustang Bayou

- Data gathering underway.

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- Oyster Creek flow, based on flow data for Chocolate Bayou, is being adjusted. This revision will be incorporated into the draft TSD and include revisions to the LDCs and TMDL calculations.
- Preparing source contribution/reduction estimates.

Task 8 Support of Texas Stream Team Programs

- TST training is being planned for Basin 11 on May 11 at Brazosport College.

Thanks,

Steve

Steven Johnston
Senior Planner
Community & Environmental Department | Houston-Galveston Area Council
3555 Timmons, Suite 120 Houston, TX 77027 | www.h-gac.com
832.681.2579 | 713.627.3200 | fax: 713.993.4503
steven.johnston@h-gac.com
<http://h-gac.com/community/water/tmdl/big/default.aspx>

Johnston, Steven

From: Johnston, Steven
Sent: Sunday, March 17, 2019 5:03 PM
To: 'Jazmyn Milford'
Cc: Jason Leifester (Jason.leifester@tceq.texas.gov); Chris Loft
Subject: FY 19 WO #4 Weekly Report (Mar 4 - Mar 8) and (Mar 11 - Mar 15)
Attachments: PR2_17Mar2019.pdf

Good Afternoon, Jazmyn – Below you will find the weekly reports for Work Order #4 under 582-18-81222. I have also attached the 2nd progress report. Please let me know if you have any questions.

Mar. 4th – Mar. 8th:

Task 1 Project Administration

- **Anticipate Spend Down August 2019?:** Yes.
- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$180,000
- **Total Spent to Date: (Jan. 31, 2019)** \$93,504.34 **Remaining Budget Amount:** \$86,495.66

Task 2 Public Education and Outreach Activities

- Preparing for Oyster Creek Coordination Committee Meeting March 12, 2019 2-4 Lake Jackson.
- 15 Pet waste stations are being purchased through the Coastal Communities 319 grant. Ten Stations will be placed in parks within the City of Lake Jackson city limits. Five stations will be placed on a walking trail along Oyster Creek on the Brazosport College campus.
- Staff developing a Basin 11 Leadership Forum to focus on local governments, elected officials and permittees. Will target meeting for May.

Task 3 Quality Assurance

- No updates.

Task 4 TSD for Halls Bayou Tidal

- TCEQ PM provided comments to the draft TSD. Staff began to address.

Task 5 TMDL Support for Chocolate Bayou Adoption

- Continued to revise TMDL document and TSD. Corrected flow data to account for return flows and to remove contributions from transfers (WWTF effluent, etc.). LDCs revised. Addressing changes to the TMDL calculations.
- Chocolate Bayou stakeholder meeting April 10, 2019. Being pushed back. Will be coordinated with the development of the Basin 11 Leadership Forum.

Task 6 Watershed Characterization Report for Mustang Bayou

- Data gathering underway.

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- Oyster Creek flow, based on flow data for Chocolate Bayou, is being adjusted. This revision will be incorporated into the draft TSD and include revisions to the LDCs and TMDL calculations.
- Preparing source contribution/reduction estimates.

Task 8 Support of Texas Stream Team Programs

- TST training is being planned for Basin 11 on May 11 at Brazosport College.

Mar. 11th – Mar. 15th:

Task 1 Project Administration

- **Anticipate Spend Down August 2019?:** Yes.
- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$180,000
- **Total Spent to Date: (Jan. 31, 2019) \$93,504.34 Remaining Budget Amount: \$86,495.66**
- **Drafted and submitted the 2nd Progress Report.**

Task 2 Public Education and Outreach Activities

- Oyster Creek Coordination Committee met on March 12, 2019 at the Lake Jackson Public Library. Ten stakeholders were present to discuss the role of the coordination committee, review Oyster Creek data, discuss management measures and how to reduce bacteria. H-GAC provided copies of recently approved WPPs and I-Plans. The attendees were divided into two groups and given instructions to review the documents, highlight important BMPs and discuss effective strategies for reducing bacteria in Oyster Creek.
- 15 Pet waste stations are being purchased through the Coastal Communities 319 grant. Ten Stations will be placed in parks within the City of Lake Jackson city limits. Five stations will be placed on a walking trail along Oyster Creek on the Brazosport College campus.
- Staff developing a Basin 11 Leadership Forum to focus on local governments, elected officials and permittees. Will target meeting for May.

Task 3 Quality Assurance

- No updates.

Task 4 TSD for Halls Bayou Tidal

- TCEQ PM provided comments to the draft TSD. Staff began to address.

Task 5 TMDL Support for Chocolate Bayou Adoption

- Continued to revise TMDL document and TSD. Corrected flow data to account for return flows and to remove contributions from transfers (WWTF effluent, etc.). LDCs revised. Addressing changes to the TMDL calculations.
- Chocolate Bayou stakeholder meeting April 10, 2019. Being pushed back. Will be coordinated with the development of the Basin 11 Leadership Forum.

Task 6 Watershed Characterization Report for Mustang Bayou

- Data gathering underway.

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- Oyster Creek flow, based on flow data for Chocolate Bayou, is being adjusted. This revision will be incorporated into the draft TSD and include revisions to the LDCs and TMDL calculations.
- Preparing source contribution/reduction estimates.

Task 8 Support of Texas Stream Team Programs

- TST training is being planned for Basin 11 on May 11 at Brazosport College.

Thanks,

Steve

Steven Johnston
Senior Planner
Community & Environmental Department | Houston-Galveston Area Council

3555 Timmons, Suite 120 Houston, TX 77027 | www.h-gac.com
832.681.2579 | 713.627.3200 | fax: 713.993.4503
steven.johnston@h-gac.com |
<http://h-gac.com/community/water/tmdl/big/default.aspx>

Johnston, Steven

From: Johnston, Steven
Sent: Sunday, March 31, 2019 5:13 PM
To: 'Jazmyn Milford'
Cc: Jason Leifester (Jason.leifester@tceq.texas.gov); Chris Loft
Subject: FY 19 WO #4 Weekly Report (Mar 18 - Mar 22)

Good Afternoon, Jazmyn – Below you will find the weekly report for Work Order #4 under 582-18-81222. Please let me know if you have any questions.

Mar. 18th – Mar. 22nd:

Task 1 Project Administration

- **Anticipate Spend Down August 2019?:** Yes.
- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$180,000
- **Total Spent to Date: (Feb. 28, 2019)** \$100,784.75 **Remaining Budget Amount:** \$79,215.25

Task 2 Public Education and Outreach Activities

- Began discussion on the next Oyster Creek Coordination Committee meeting.
- 15 Pet waste stations are being purchased through the Coastal Communities 319 grant. Ten Stations will be placed in parks within the City of Lake Jackson city limits. Five stations will be placed on a walking trail along Oyster Creek on the Brazosport College campus.
- Staff developing a Basin 11 Leadership Forum to focus on local governments, elected officials and permittees. Will target meeting for May.

Task 3 Quality Assurance

- No updates.

Task 4 TSD for Halls Bayou Tidal

- Staff addressing comments.

Task 5 TMDL Support for Chocolate Bayou Adoption

- Continued to revise TMDL document and TSD. Corrected flow data to account for return flows and to remove contributions from transfers (WWTF effluent, etc.). LDCs revised. Addressing changes to the TMDL calculations. Anticipate revised documents the week of April 1st.
- Chocolate Bayou stakeholder meeting April 10, 2019. Being pushed back. Will be coordinated with the development of the Basin 11 Leadership Forum.

Task 6 Watershed Characterization Report for Mustang Bayou

- Data gathering underway.

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- Oyster Creek flow, based on flow data for Chocolate Bayou, is being adjusted. This revision will be incorporated into the draft TSD and include revisions to the LDCs and TMDL calculations.
- Preparing source contribution/reduction estimates.

Task 8 Support of Texas Stream Team Programs

- TST training is being planned for Basin 11 on May 11 at Brazosport College.

Thanks,

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steven.johnston@h-gac.com
<http://h-gac.com/community/water/tmdl/big/default.aspx>

Johnston, Steven

From: Johnston, Steven
Sent: Thursday, April 18, 2019 5:38 PM
To: 'Jazmyn Milford'
Cc: Jason Leifester (Jason.leifester@tceq.texas.gov); Chris Loft
Subject: RE: FY 19 WO #4 Weekly Reports (Mar 25 - Mar 29) and (Apr 1 - Apr 5)

Good Afternoon, Jazmyn – Below you will find the weekly reports for Work Order #4 under 582-18-81222. Please let me know if you have any questions.

Mar. 25th – Mar. 29th :

Task 1 Project Administration

- ***Anticipate Spend Down August 2019?:*** Yes.
- ***Is spending by categories going as expected?:*** Yes at this time.
- ***Last Invoice:*** N/A.
- ***Original Budget Amount:*** \$180,000
- ***Total Spent to Date: (Mar. 31, 2019)*** \$117,841.89 ***Remaining Budget Amount:*** \$62,158.11
- **Provided requested deliverables from past WOs to TCEQ PM.**

Task 2 Public Education and Outreach Activities

- Reviewing potential locations for the next Oyster Creek Coordination Committee meeting.
- Attended the Lake Jackson TrashBash event on March 30, 2019. Event was the product of outreach efforts with local governments, nonprofits and industry. The Olin Corporation employees sponsored the event as part of the region TrashBash effort. Olin has also provided community funds to support H-GAC's OSSF inspection, repairs and replacement project within the watershed.
- Staff developing a Basin 11 Leadership Forum to focus on local governments, elected officials and permittees. Will target meeting for May.

Task 3 Quality Assurance

- No updates.

Task 4 TSD for Halls Bayou Tidal

- Staff continues to address comments.

Task 5 TMDL Support for Chocolate Bayou Adoption

- Continued to revise TMDL document and TSD. TMDL calculations have been completed.
- Chocolate Bayou stakeholder meeting April 10, 2019. Being pushed back. Will be coordinated with the development of the Basin 11 Leadership Forum. Anticipate a May meeting date.

Task 6 Watershed Characterization Report for Mustang Bayou

- Data gathering underway.

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- Oyster Creek flow, based on flow data for Chocolate Bayou, is being adjusted. This revision will be incorporated into the draft TSD and include revisions to the LDCs and TMDL calculations.
- Preparing source contribution/reduction estimates.

Task 8 Support of Texas Stream Team Programs

- TST training is being planned for Basin 11 on May 11 at Brazosport College.

Apr. 1st – Apr. 5th :

Task 1 Project Administration

- **Anticipate Spend Down August 2019?:** Yes.
- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$180,000
- **Total Spent to Date: (Mar. 31, 2019)** \$117,841.89 **Remaining Budget Amount:** \$62,158.11

Task 2 Public Education and Outreach Activities

- Reviewing potential locations for the next Oyster Creek Coordination Committee meeting.
- Staff developing a Basin 11 Leadership Forum to focus on local governments, elected officials and permittees. Will target meeting for May. Updating stakeholder and permit holder lists in preparation for sending out meeting announcements. Still working to secure a meeting location and meeting date.

Task 3 Quality Assurance

- No updates.

Task 4 TSD for Halls Bayou Tidal

- Staff continues to address comments.

Task 5 TMDL Support for Chocolate Bayou Adoption

- Continued to revise TMDL document and TSD. TMDL calculations have been completed.
- Chocolate Bayou stakeholder meeting April 10, 2019. Being pushed back. Will be coordinated with the development of the Basin 11 Leadership Forum. Anticipate a May meeting date.

Task 6 Watershed Characterization Report for Mustang Bayou

- Data gathering underway.

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- Provided Oyster Creek photos to TCEQ PM.
- Oyster Creek flow, based on flow data for Chocolate Bayou, is being adjusted. This revision will be incorporated into the draft TSD and include revisions to the LDCs and TMDL calculations.
- Preparing source contribution/reduction estimates.

Task 8 Support of Texas Stream Team Programs

- TST training is being planned for Basin 11 on May 11 at Brazosport College.

Thanks,

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Steven Johnston
Senior Planner
Community & Environmental Department | Houston-Galveston Area Council
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832.681.2579 | 713.627.3200 | fax: 713.993.4503
steven.johnston@h-gac.com
<http://h-gac.com/community/water/tmdl/big/default.aspx>

Johnston, Steven

From: Johnston, Steven
Sent: Sunday, March 31, 2019 5:13 PM
To: 'Jazmyn Milford'
Cc: Jason Leifester (Jason.leifester@tceq.texas.gov); Chris Loft
Subject: FY 19 WO #4 Weekly Report (Mar 18 - Mar 22)

Good Afternoon, Jazmyn – Below you will find the weekly report for Work Order #4 under 582-18-81222. Please let me know if you have any questions.

Mar. 18th – Mar. 22nd:

Task 1 Project Administration

- **Anticipate Spend Down August 2019?:** Yes.
- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$180,000
- **Total Spent to Date: (Feb. 28, 2019)** \$100,784.75 **Remaining Budget Amount:** \$79,215.25

Task 2 Public Education and Outreach Activities

- Began discussion on the next Oyster Creek Coordination Committee meeting.
- 15 Pet waste stations are being purchased through the Coastal Communities 319 grant. Ten Stations will be placed in parks within the City of Lake Jackson city limits. Five stations will be placed on a walking trail along Oyster Creek on the Brazosport College campus.
- Staff developing a Basin 11 Leadership Forum to focus on local governments, elected officials and permittees. Will target meeting for May.

Task 3 Quality Assurance

- No updates.

Task 4 TSD for Halls Bayou Tidal

- Staff addressing comments.

Task 5 TMDL Support for Chocolate Bayou Adoption

- Continued to revise TMDL document and TSD. Corrected flow data to account for return flows and to remove contributions from transfers (WWTF effluent, etc.). LDCs revised. Addressing changes to the TMDL calculations. Anticipate revised documents the week of April 1st.
- Chocolate Bayou stakeholder meeting April 10, 2019. Being pushed back. Will be coordinated with the development of the Basin 11 Leadership Forum.

Task 6 Watershed Characterization Report for Mustang Bayou

- Data gathering underway.

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- Oyster Creek flow, based on flow data for Chocolate Bayou, is being adjusted. This revision will be incorporated into the draft TSD and include revisions to the LDCs and TMDL calculations.
- Preparing source contribution/reduction estimates.

Task 8 Support of Texas Stream Team Programs

- TST training is being planned for Basin 11 on May 11 at Brazosport College.

Thanks,

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Steven Johnston
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3555 Timmons, Suite 120 Houston, TX 77027 | www.h-gac.com
832.681.2579 | 713.627.3200 | fax: 713.993.4503
steven.johnston@h-gac.com
<http://h-gac.com/community/water/tmdl/big/default.aspx>

Johnston, Steven

From: Johnston, Steven
Sent: Tuesday, April 23, 2019 4:00 PM
To: 'Jazmyn Milford'
Cc: Jason Leifester (Jason.leifester@tceq.texas.gov); Chris Loft
Subject: RE: FY 19 WO #4 Weekly Reports (Apr 8 - Apr 12) and (Apr 15 - Apr 19)

Good Afternoon, Jazmyn – Below you will find the weekly reports for Work Order #4 under 582-18-81222. Please let me know if you have any questions.

Apr. 8th – Apr. 12th:

Task 1 Project Administration

- ***Anticipate Spend Down August 2019?:*** Yes.
- ***Is spending by categories going as expected?:*** Yes at this time.
- ***Last Invoice:*** N/A.
- ***Original Budget Amount:*** \$180,000
- ***Total Spent to Date: (Mar. 31, 2019)*** \$117,841.89 ***Remaining Budget Amount:*** \$62,158.11

Task 2 Public Education and Outreach Activities

- Reviewing potential locations for the next Oyster Creek Coordination Committee meeting.
- Staff developing a Basin 11 Leadership Forum to focus on local governments, elected officials and permittees. Will target meeting for May. Updating stakeholder and permit holder lists in preparation for sending out meeting announcements. Still working to secure a meeting location and meeting date.

Task 3 Quality Assurance

- No updates.

Task 4 TSD for Halls Bayou Tidal

- Staff continue to address comments.

Task 5 TMDL Support for Chocolate Bayou Adoption

- Continued to revise TMDL document and TSD. TMDL calculations have been completed.
- Chocolate Bayou stakeholder meeting is being coordinated with the development of the Basin 11 Leadership Forum. Anticipate a May meeting date.

Task 6 Watershed Characterization Report for Mustang Bayou

- Data gathering underway.

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- Staff met with Brazosport College to review facilities for future workshop events. Planning TST volunteer training and OSSF workshops (being planned for the fall). Discussed the potential for holding a TMDL Public meeting on the campus.
- Oyster Creek flow, based on flow data for Chocolate Bayou, is being adjusted. This revision will be incorporated into the draft TSD and include revisions to the LDCs and TMDL calculations.
- Preparing source contribution/reduction estimates.

Task 8 Support of Texas Stream Team Programs

- TST training is being planned for Basin 11 on May 11 at Brazosport College.

Apr. 15th – Apr. 19th:

Task 1 Project Administration

- **Anticipate Spend Down August 2019?:** Yes.
- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$180,000
- **Total Spent to Date: (Mar. 31, 2019)** \$117,841.89 **Remaining Budget Amount:** \$62,158.11

Task 2 Public Education and Outreach Activities

- Selected May 23, 2019, 3:00 PM at the Brazoria County Library in Angleton. Sent out meeting notices to the Oyster Creek CC members.
- Staff developing a Basin 11 Leadership Forum to focus on local governments, elected officials and permittees. Will target meeting for May. Updating stakeholder and permit holder lists in preparation for sending out meeting announcements. Still working to secure a meeting location and meeting date.
- June 12, 2019 Green Infrastructure workshop in Pearland. Registration open - <https://agrillife.org/gift/>.
- Staff will man a booth at the City of Pearland Earth Day event. Will provide pet waste materials and information on Basin 11 and BIG projects.

Task 3 Quality Assurance

- No updates.

Task 4 TSD for Halls Bayou Tidal

- Staff continue to address comments.

Task 5 TMDL Support for Chocolate Bayou Adoption

- Continued to revise TMDL document and TSD. TMDL calculations have been completed.
- Chocolate Bayou stakeholder meeting is being coordinated with the development of the Basin 11 Leadership Forum. Anticipate a May meeting date.

Task 6 Watershed Characterization Report for Mustang Bayou

- Data gathering underway.

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- Oyster Creek flow, based on flow data for Chocolate Bayou, is being adjusted. This revision will be incorporated into the draft TSD and include revisions to the LDCs and TMDL calculations.
- Preparing source contribution/reduction estimates.

Task 8 Support of Texas Stream Team Programs

- TST training is being planned for Basin 11 on May 11 at Brazosport College.

Thanks,

Steve

Steven Johnston
Senior Planner
Community & Environmental Department | Houston-Galveston Area Council
3555 Timmons, Suite 120 Houston, TX 77027 | www.h-gac.com
832.681.2579 | 713.627.3200 | fax: 713.993.4503
steven.johnston@h-gac.com
<http://h-gac.com/community/water/tmdl/big/default.aspx>

Johnston, Steven

From: Johnston, Steven
Sent: Sunday, May 5, 2019 3:45 PM
To: 'Jazmyn Milford'
Cc: Jason Leifester (Jason.leifester@tceq.texas.gov); Chris Loft
Subject: FY 19 WO #4 Weekly Reports (Apr 22 - Apr 26) and (Apr 29 - May 3)

Good Afternoon, Jazmyn – Below you will find the weekly reports for Work Order #4 under 582-18-81222. Please let me know if you have any questions.

Apr. 22nd – Apr. 26th:

Task 1 Project Administration

- **Anticipate Spend Down August 2019?:** Yes.
- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$180,000
- **Total Spent to Date: (Mar. 31, 2019)** \$117,841.89 **Remaining Budget Amount:** \$62,158.11

Task 2 Public Education and Outreach Activities

- April 27, 2019 – Pearland Earth Day event at Southdown Park. Staff provided information on Pet Wastes and impact to waterways. Handed out pet waste dispensers.
- May 23, 2019 – Oyster Creek Coordination Committee meeting at 3:00 PM, the Brazoria County Library in Angleton.
- June 13, 2019 - Basin 11 Leadership Forum, Alvin Community College (Nolan Ryan Center) 10:00 AM-12:00 PM. Meeting will focus on local governments, elected officials and permittees. Updating stakeholder and permit holder lists in preparation for sending out meeting announcements.
- June 12, 2019 Green Infrastructure workshop in Pearland. Registration open - <https://agriflife.org/gift/>.

Task 3 Quality Assurance

- No updates.

Task 4 TSD for Halls Bayou Tidal

- Staff continues to address comments.

Task 5 TMDL Support for Chocolate Bayou Adoption

- Continued to revise TMDL document and TSD.
- Chocolate Bayou stakeholder meeting is being coordinated with the development of the Basin 11 Leadership Forum. Meeting will be scheduled for June 13, 2019.

Task 6 Watershed Characterization Report for Mustang Bayou

- Data gathering underway.
- GIS maps are being developed.
- Submitted first pass at WWTF permits to TCEQ for accuracy review.

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- Oyster Creek LDCs were revised and TMDL calculations are now being revised. TSD will be updated and TMDL should be submitted on time.
- Preparing source contribution/reduction estimates.

Task 8 Support of Texas Stream Team Programs

- TST training is being planned for Basin 11 on May 11 at Brazosport College.

Apr. 29th – May 3rd:

Task 1 Project Administration

- **Anticipate Spend Down August 2019?:** Yes.
- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$180,000
- **Total Spent to Date: (Mar. 31, 2019)** \$117,841.89 **Remaining Budget Amount:** \$62,158.11

Task 2 Public Education and Outreach Activities

- May 18, 2019 – Bay Day, Kemah Boardwalk 10 AM-4 PM.
- May 23, 2019 – Oyster Creek Coordination Committee meeting at 3:00 PM, the Brazoria County Library in Angleton.
- June 13, 2019 - Basin 11 Leadership Forum, Alvin Community College (Nolan Ryan Center) 10:00 AM-12:00 PM. Meeting will focus on local governments, elected officials and permittees. Updating stakeholder and permit holder lists in preparation for sending out meeting announcements. Announcement should go out the week of May 6th.
- June 12, 2019 Green Infrastructure workshop in Pearland. Registration open - <https://agrilife.org/gift/>.

Task 3 Quality Assurance

- No updates.

Task 4 TSD for Halls Bayou Tidal

- Staff continues to address comments. Anticipate the document being resubmitted by Friday, May 10, 2019.

Task 5 TMDL Support for Chocolate Bayou Adoption

- Continued to revise TMDL document and TSD. Expect to submit the documents on May 9, 2019.
- Chocolate Bayou stakeholder meeting is being coordinated with the development of the Basin 11 Leadership Forum. Meeting will be scheduled for June 13, 2019.

Task 6 Watershed Characterization Report for Mustang Bayou

- Data gathering underway.
- GIS maps are being developed.
- Submitted first pass at WWTF permits to TCEQ for accuracy review.

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- Oyster Creek LDCs were revised and TMDL calculations are now being revised. TSD will be updated (resubmit May15, 2019) and TMDL should be submitted on time.
- Preparing source contribution/reduction estimates.

Task 8 Support of Texas Stream Team Programs

- TST training is being planned for Basin 11 on May 11 at Brazosport College.

Thanks,

Steve

Steven Johnston

Senior Planner
Community & Environmental Department | Houston-Galveston Area Council
3555 Timmons, Suite 120 Houston, TX 77027 | www.h-gac.com
832.681.2579 | 713.627.3200 | fax: 713.993.4503
steven.johnston@h-gac.com
<http://h-gac.com/community/water/tmdl/big/default.aspx>

Johnston, Steven

From: Johnston, Steven
Sent: Sunday, May 12, 2019 5:14 PM
To: 'Jazmyn Milford'
Cc: Jason Leifester (Jason.leifester@tceq.texas.gov); Chris Loft
Subject: FY 19 WO #4 Weekly Reports (May 6 - May 10)

Good Afternoon, Jazmyn – Below you will find the weekly reports for Work Order #4 under 582-18-81222. Please let me know if you have any questions.

May 6th – May 10th:

Task 1 Project Administration

- **Anticipate Spend Down August 2019?:** Yes.
- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$180,000
- **Total Spent to Date: (Mar. 31, 2019)** \$117,841.89 **Remaining Budget Amount:** \$62,158.11

Task 2 Public Education and Outreach Activities

- May 18, 2019 – Bay Day, Kemah Boardwalk 10 AM-4 PM.
- May 23, 2019 – Oyster Creek Coordination Committee meeting at 3:00 PM, the Brazoria County Library in Angleton. Meeting reminders will go out the week of May 13th. Meeting preparation underway.
- June 13, 2019 - Basin 11 Leadership Forum, Alvin Community College (Nolan Ryan Center) 10:00 AM-12:00 PM. Meeting will focus on local governments, elected officials and permittees. Updating stakeholder and permit holder lists in preparation for sending out meeting announcements. Announcement should go out the week of May 6th.
- June 13, 2019 – Chocolate Bayou CC and public meeting. Being planned for June 13th at the Alvin Public Library from 4-6 PM. Meeting announcement will go out May 13, 2019.
- June 12, 2019 Green Infrastructure workshop in Pearland. Registration open - <https://agriflife.org/gift/>.

Task 3 Quality Assurance

- No updates.

Task 4 TSD for Halls Bayou Tidal

- Staff resubmitted TSD on Friday, May 10, 2019.

Task 5 TMDL Support for Chocolate Bayou Adoption

- Reviewing revised TMDL document and TSD. Will submit revisions on May 13, 2019.
- Chocolate Bayou stakeholder meeting is being coordinated with the development of the Basin 11 Leadership Forum. Meeting is being scheduled for June 13, 2019.

Task 6 Watershed Characterization Report for Mustang Bayou

- Data gathering continues.
- GIS maps are being developed.
- Received revised WWTF permits from TCEQ.

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- Oyster Creek LDCs were revised and TMDL calculations are now being revised. TSD will be updated (anticipate resubmit May15, 2019) and TMDL should be submitted on time.
- Preparing source contribution/reduction estimates.

Task 8 Support of Texas Stream Team Programs

- TST training is being planned for Basin 11 on May 11 at Brazosport College (as of this report, the staff had been reviewing the weather and potentially this might have been postponed).

Thanks,

Steve

Steven Johnston
Senior Planner
Community & Environmental Department | Houston-Galveston Area Council
3555 Timmons, Suite 120 Houston, TX 77027 | www.h-gac.com
832.681.2579 | 713.627.3200 | fax: 713.993.4503
steven.johnston@h-gac.com
<http://h-gac.com/community/water/tmdl/big/default.aspx>

Johnston, Steven

From: Johnston, Steven
Sent: Monday, May 20, 2019 10:42 AM
To: 'Jazmyn Milford'
Cc: Jason Leifester (Jason.leifester@tceq.texas.gov); Chris Loft
Subject: FY 19 WO #4 Weekly Reports (May 13 - May 17)

Good Morning, Jazmyn – Below you will find the weekly reports for Work Order #4 under 582-18-81222. Please let me know if you have any questions.

May 13th – May 17th:

Task 1 Project Administration

- **Anticipate Spend Down August 2019?:** Yes.
- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$180,000
- **Total Spent to Date: (Mar. 31, 2019)** \$117,841.89 **Remaining Budget Amount:** \$62,158.11

Task 2 Public Education and Outreach Activities

- May 18, 2019 – Bay Day, Kemah Boardwalk 10 AM-4 PM. Staff attended the event and provided Pet Waste and Fats, Oil, Grease and Wipe outreach.
- May 23, 2019 – Oyster Creek Coordination Committee meeting at 3:00 PM, the Brazoria County Library in Angleton. Meeting reminders went out the week of May 13th. Meeting preparation underway. Draft presentation and meeting materials provided to TCEQ PM.
- June 13, 2019 - Basin 11 Leadership Forum, Alvin Community College (Nolan Ryan Center) 10:00 AM-12:00 PM. Meeting will focus on local governments, elected officials and permittees. Updated stakeholder and permit holder lists and mailed out meeting announcements this week.
- June 13, 2019 – Chocolate Bayou CC and public meeting. Being planned for June 13th at the Alvin Public Library from 4-6 PM. Meeting announcement went out this week.
- June 12, 2019 Green Infrastructure workshop in Pearland. Registration open - <https://agrillife.org/gift/>. Staff will provide a presentation at the workshop.

Task 3 Quality Assurance

- No updates.

Task 4 TSD for Halls Bayou Tidal

- Staff resubmitted TSD on Friday, May 10, 2019.

Task 5 TMDL Support for Chocolate Bayou Adoption

- TMDL document and TSD were revised and documents submitted to the TCEQ PM.
- Chocolate Bayou stakeholder meeting is being coordinated with the development of the Basin 11 Leadership Forum. Meeting is being scheduled for June 13, 2019.

Task 6 Watershed Characterization Report for Mustang Bayou

- Data gathering continues.
- GIS maps are being developed.
- Received revised WWTF permits from TCEQ.

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- Oyster Creek LDCs were revised and TMDL calculations are now being revised. TSD will be updated (anticipate resubmit May 22, 2019) and TMDL should be submitted on time.
- Source contribution/reduction estimates are under review.

Task 8 Support of Texas Stream Team Programs

- TST training was planned for Basin 11 on May 11 at Brazosport College – event will be rescheduled as it was canceled due the threat of bad weather.

Thanks,

Steve

Steven Johnston
Senior Planner
Community & Environmental Department | Houston-Galveston Area Council
3555 Timmons, Suite 120 Houston, TX 77027 | www.h-gac.com
832.681.2579 | 713.627.3200 | fax: 713.993.4503
steven.johnston@h-gac.com
<http://h-gac.com/community/water/tmdl/big/default.aspx>

Johnston, Steven

From: Johnston, Steven
Sent: Sunday, May 12, 2019 5:14 PM
To: 'Jazmyn Milford'
Cc: Jason Leifester (Jason.leifester@tceq.texas.gov); Chris Loft
Subject: FY 19 WO #4 Weekly Reports (May 6 - May 10)

Good Afternoon, Jazmyn – Below you will find the weekly reports for Work Order #4 under 582-18-81222. Please let me know if you have any questions.

May 6th – May 10th:

Task 1 Project Administration

- **Anticipate Spend Down August 2019?:** Yes.
- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$180,000
- **Total Spent to Date: (Mar. 31, 2019)** \$117,841.89 **Remaining Budget Amount:** \$62,158.11

Task 2 Public Education and Outreach Activities

- May 18, 2019 – Bay Day, Kemah Boardwalk 10 AM-4 PM.
- May 23, 2019 – Oyster Creek Coordination Committee meeting at 3:00 PM, the Brazoria County Library in Angleton. Meeting reminders will go out the week of May 13th. Meeting preparation underway.
- June 13, 2019 - Basin 11 Leadership Forum, Alvin Community College (Nolan Ryan Center) 10:00 AM-12:00 PM. Meeting will focus on local governments, elected officials and permittees. Updating stakeholder and permit holder lists in preparation for sending out meeting announcements. Announcement should go out the week of May 6th.
- June 13, 2019 – Chocolate Bayou CC and public meeting. Being planned for June 13th at the Alvin Public Library from 4-6 PM. Meeting announcement will go out May 13, 2019.
- June 12, 2019 Green Infrastructure workshop in Pearland. Registration open - <https://agrilife.org/gift/>.

Task 3 Quality Assurance

- No updates.

Task 4 TSD for Halls Bayou Tidal

- Staff resubmitted TSD on Friday, May 10, 2019.

Task 5 TMDL Support for Chocolate Bayou Adoption

- Reviewing revised TMDL document and TSD. Will submit revisions on May 13, 2019.
- Chocolate Bayou stakeholder meeting is being coordinated with the development of the Basin 11 Leadership Forum. Meeting is being scheduled for June 13, 2019.

Task 6 Watershed Characterization Report for Mustang Bayou

- Data gathering continues.
- GIS maps are being developed.
- Received revised WWTF permits from TCEQ.

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- Oyster Creek LDCs were revised and TMDL calculations are now being revised. TSD will be updated (anticipate resubmit May15, 2019) and TMDL should be submitted on time.
- Preparing source contribution/reduction estimates.

Task 8 Support of Texas Stream Team Programs

- TST training is being planned for Basin 11 on May 11 at Brazosport College (as of this report, the staff had been reviewing the weather and potentially this might have been postponed).

Thanks,

Steve

Steven Johnston
Senior Planner
Community & Environmental Department | Houston-Galveston Area Council
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832.681.2579 | 713.627.3200 | fax: 713.993.4503
steven.johnston@h-gac.com
<http://h-gac.com/community/water/tmdl/big/default.aspx>

Johnston, Steven

From: Johnston, Steven
Sent: Wednesday, June 12, 2019 11:08 AM
To: 'Jazmyn Milford'
Cc: Jason Leifester (Jason.leifester@tceq.texas.gov); Chris Loft
Subject: FY 19 WO #4 Weekly Reports (May 20 - May 24) and (May27 - May 31)

Good Morning, Jazmyn – Below you will find the weekly reports for Work Order #4 under 582-18-81222. Please let me know if you have any questions.

May 20th – May 24th:

Task 1 Project Administration

- ***Anticipate Spend Down August 2019?:*** Yes.
- ***Is spending by categories going as expected?:*** Yes at this time.
- ***Last Invoice:*** N/A.
- ***Original Budget Amount:*** \$180,000
- ***Total Spent to Date: (April 30, 2019)*** \$137,508.46 ***Remaining Budget Amount:*** \$42,491.54

Task 2 Public Education and Outreach Activities

- May 23, 2019 – Oyster Creek Coordination Committee meeting was held at the Brazoria County Library in Angleton. Eleven stakeholders were present. H-GAC reviewed the latest developments in the TMDL and TSD. H-GAC had the attendees take a management measure prioritization questionnaire and discussed the potential activities as measures for the watershed.
- June 13, 2019 - Basin 11 Leadership Forum, Alvin Community College (Nolan Ryan Center) 10:00 AM-12:00 PM. Meeting will focus on local governments, elected officials and permittees. Staff prioritized calls to select officials that will be carried out the last week of June.
- June 13, 2019 – Chocolate Bayou CC and public meeting is scheduled at the Alvin Public Library from 4-6 PM.
- June 12, 2019 Green Infrastructure workshop in Pearland. Registration open - <https://agriflife.org/gift/>. Staff will provide a presentation at the workshop.

Task 3 Quality Assurance

- No updates.

Task 4 TSD for Halls Bayou Tidal

- Staff resubmitted TSD on Friday, May 10, 2019.

Task 5 TMDL Support for Chocolate Bayou Adoption

- TMDL document and TSD were revised and documents submitted to the TCEQ PM.
- Chocolate Bayou stakeholder meeting is being coordinated with the development of the Basin 11 Leadership Forum. Meeting is scheduled for June 13, 2019.

Task 6 Watershed Characterization Report for Mustang Bayou

- Data gathering was completed.
- GIS maps are completed and under review.
- Text being drafted.

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- Oyster Creek LDCs were revised and TMDL calculations are now being revised. TSD is being updated.

- Source contribution/reduction estimates are under review for the WPP elements.

Task 8 Support of Texas Stream Team Programs

- TST training was planned for Basin 11 on May 11 at Brazosport College – event has been rescheduled to September.

May 27th – May 31st:

Task 1 Project Administration

- **Anticipate Spend Down August 2019?:** Yes.
- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$180,000
- **Total Spent to Date: (April 30, 2019) \$137,508.46 Remaining Budget Amount: \$42,491.54**

Task 2 Public Education and Outreach Activities

- June 13, 2019 - Basin 11 Leadership Forum, Alvin Community College (Nolan Ryan Center) 10:00 AM-12:00 PM. Staff completed email and calls to select officials to encourage attendance.
- June 13, 2019 – Chocolate Bayou CC and public meeting is scheduled at the Alvin Public Library from 4-6 PM.
- June 12, 2019 Green Infrastructure workshop in Pearland. Registration open - <https://agrillife.org/gift/>. Staff will provide a presentation at the workshop.

Task 3 Quality Assurance

- No updates.

Task 4 TSD for Halls Bayou Tidal

- Staff resubmitted TSD on Friday, May 10, 2019.

Task 5 TMDL Support for Chocolate Bayou Adoption

- TMDL document and TSD were revised and documents submitted to the TCEQ PM.
- Chocolate Bayou stakeholder meeting is being coordinated with the development of the Basin 11 Leadership Forum. Meeting is scheduled for June 13, 2019.

Task 6 Watershed Characterization Report for Mustang Bayou

- Data gathering was completed.
- GIS maps are completed and under review.
- Text being drafted.

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- Oyster Creek LDCs were revised and TMDL calculations are now being revised. TSD is being updated (**revised anticipate resubmit June 18, 2019) and TMDL on June 18, 2019.**
- Source contribution/reduction estimates are under review for the WPP elements.

Task 8 Support of Texas Stream Team Programs

TST training was planned for Basin 11 on May 11 at Brazosport College – event has been rescheduled to September.

Thanks,

Steve

Steven Johnston
Senior Planner

Community & Environmental Department | Houston-Galveston Area Council
3555 Timmons, Suite 120 Houston, TX 77027 | www.h-gac.com
832.681.2579 | 713.627.3200 | fax: 713.993.4503
steven.johnston@h-gac.com
<http://h-gac.com/community/water/tmdl/big/default.aspx>

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Search

San Jacinto-Brazos Coastal Basin Bacteria Reduction Project

The Houston-Galveston Area Council is developing a partnership with local governments and community organizations in the San Jacinto-Brazos Coastal Basin to better understand the sources of bacteria and develop cost-effective voluntary solutions.

Watershed Characteristics

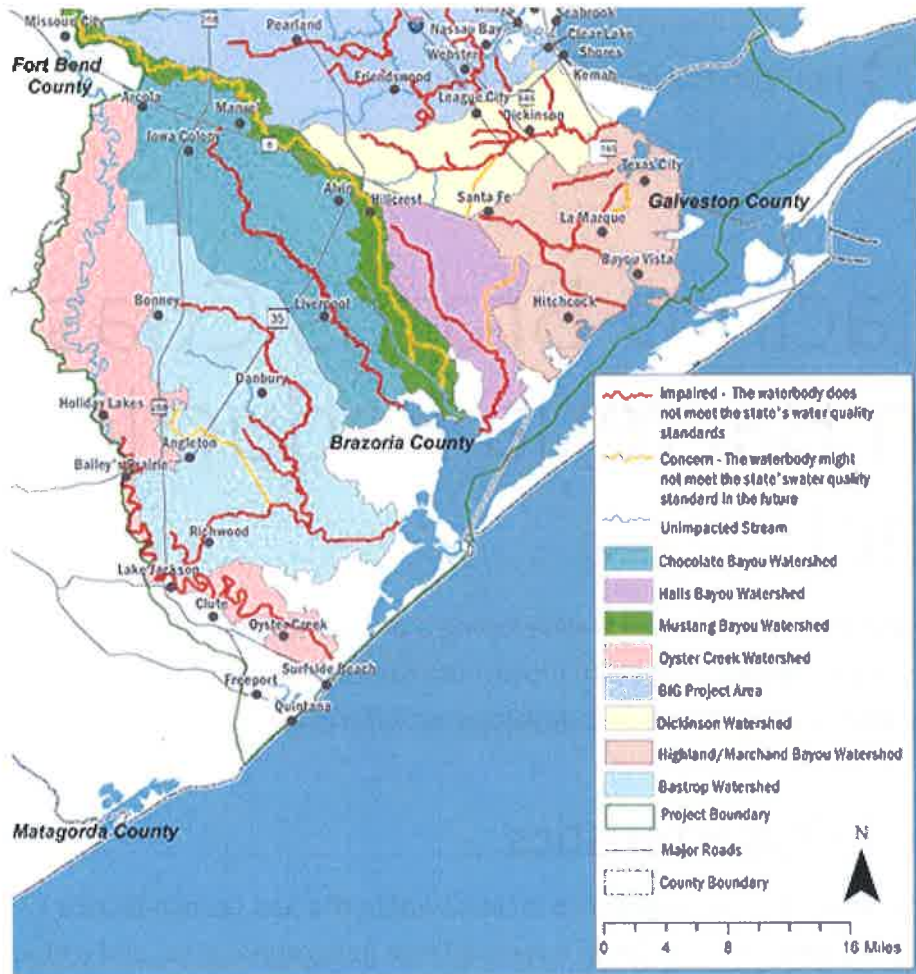
The streams addressed by this project are located within the San Jacinto-Brazos Coastal Basin, referred to as Basin 11. The Basin covers a large geographic area, and includes all or a portion of 50 cities, villages, and census-designated places and four counties: Brazoria, Fort Bend, Galveston and Harris.

About the Project

This will be a multi-year process to identify, plan, and address bacteria impairments across the basin in coordination with local stakeholders. The entire basin will be reviewed, with the each watershed addressed individually based on water quality data and stakeholder feedback. Watersheds with common issues may be grouped together for implementation efforts to encourage collaboration between stakeholders.

[Executive Summary](#)





Click on the image above for a full size version.

Characterization Report

Download Basin Characterization Reports for the San Jacinto-Brazos Coastal Basin for Indicator Bacteria.

[Download Year One's Report](#)

[Download Year Two's Report](#)

Get Involved - Be A Part of the Conversation

The input of local stakeholders will be crucial to this plan's success. Here's how you can help.

Participate in a Watershed Coordination Committee (Chocolate Bayou, Oyster Creek) 

Delve into the data driving the creation of the bacteria reduction plans, attend a Coordination Committee meeting.

Oyster Creek

Meeting 1

[Presentation \(November 8, 2018\)](#)

Meeting 2

[Presentation \(January 29, 2019\)](#)

Meeting 3

[Presentation \(March 12, 2019\)](#)

Meeting 4

Thursday, May 23

3 to 5 p.m.

[Brazoria County Public Library](#)

[401 E. Cedar St., Angleton](#)

Chocolate Bayou

Meeting 1

[Presentation \(December 6, 2016\)](#)

Meeting 2

[Presentation \(August 10, 2017\)](#)

Meeting 3

[Presentation \(November 14, 2017\)](#)

Meeting 4

Chocolate Bayou Coordination Committee Meeting

[Presentation \(January 10, 2018\)](#)

Meeting 5

Thursday, June 13, 2019

4 to 6 p.m.

[Brazoria County Public Library](#)
[105 S Gordon St., Alvin](#)

Work Group Meetings

- Nonpoint Source Work Group (March 28, 2018)
- Outreach Work Group (April 5, 2018)
- Point Source Work Group (April 5, 2018)

Please email Steven Johnston at Steven.Johnston@h-gac.com for more information.

Attend the Leadership Forum 

Twice a year, local elected officials and community leaders will come together to discuss the progress made within the basin and provide crucial feedback on the bacteria reduction plans being developed.

Participate in an Established Bacteria Reduction Plan 

Several plans to address bacteria reduction are ongoing in Dickinson Bayou, Highland Bayou, Clear Creek, Armand Bayou, and Bastrop Bayou.

[Bacteria Implementation Group](#)

[Bastrop Bayou](#)

[Dickinson Bayou](#)

[Galveston Bay](#)

[Highland Bayou](#)

[Total Maximum Daily Loads and Implementation Plans \(TMDL\)](#)

[TMDL Frequently Asked Questions](#)

[Brazos-Colorado Coastal Basin Bacteria Reduction Project](#)

[East and West Forks of the San Jacinto River TMDL and Implementation Plan](#)

Houston Ship Channel and Galveston Bay TMDL and Implementation Plan

San Jacinto-Brazos Coastal Basin Bacteria Reduction Project

Upper Oyster Creek TMDL and Implementation Plan

Contact

Steven Johnston

Senior Planner

(832)-681-2579

steven.johnston@h-gac.com

TMDL Study Resources

[TMDL Frequently Asked Questions](#)

H-GAC News & Events

There are no news items at this time.

[Careers](#)

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[Intranet](#)



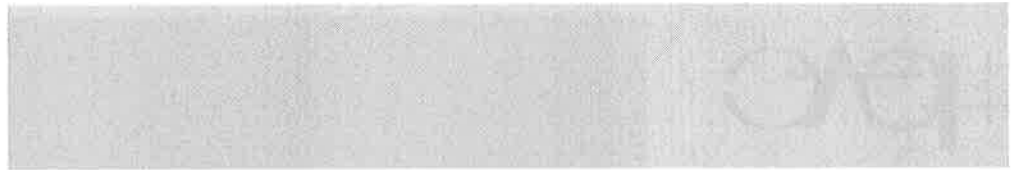
**San Jacinto – Brazos Coastal Basin:
Public Outreach Report**

Oyster Creek Coordination Committee Meeting

March 12, 2019

TABLE OF CONTENTS

I.	OVERVIEW	2
II.	PURPOSE	2
III.	APPROACH	3
IV.	NOTIFICATION	3
V.	MATERIALS	3
VI.	MEETING SYNOPSIS	3
VII.	NEXT MEETING	5



I. OVERVIEW

Per Umbrella Contract 582-18-81222-04, the Texas Commission on Environmental Quality (TCEQ) requested Public Outreach support from the Houston-Galveston Area Council (H-GAC) for Basin 11, with activities for all elements of Public Outreach including, but not necessarily limited to:

- Identifying and Reserving Facilities for Meetings and / or Events;
- Providing a Facilitator for Any Meetings (As Needed);
- Providing Support for Organizing and Advertising Meetings and / or Events;
- Distribution and Posting of Meeting Agenda(s);
- Preparation of Meeting and / or Event Summaries;
- Preparation of Printed or Other Presentation Materials in Support of a Meeting and / or Event;
- Use of the H-GAC Website for Posting Meeting and / or Event Information; and
- Any Other Necessary Support Activities.

On March 12, 2019 (Oyster Creek Coordination Committee (CC) Meeting), H-GAC conducted a meeting in Lake Jackson to review Oyster Creek water quality data; discuss the roles and responsibilities of the Oyster Creek coordination committee; review and discuss elements of a bacteria reduction plan; and discussed next steps.

II. PURPOSE

Oyster Creek, a waterbody within Basin 11, which originates in Fort Bend County, transverses the middle of Brazoria before entering the Gulf of Mexico by way of Intra Coastal Water Way and the Freeport Channel. Portions of the waterbody do not meet the state's contract recreation standards due to elevated levels of fecal bacteria. The Oyster Creek CC is meeting with the purpose of developing a bacteria reduction plan.

The Oyster Creek CC met to discuss the following:

1. Review Oyster Creek water quality;
2. Discuss the Oyster Creek CC roles and responsibilities, and
3. Review and discuss water quality management opportunities; and
4. Discuss next steps.



III. **APPROACH and NOTIFICATION**

A list of stakeholders and interested parties was generated based on the attendance at four previous public meetings, efforts to contact organizations, interest groups and private individuals directly and word of mouth through attendees and via the Brazoria County Facts newspaper. Identified stakeholders were then contacted directly via e-mail, phone and/or letter to notify them of the CC meeting. The meeting announcement was placed on the H-GAC website. Additional meeting details; and meeting reminders were sent to the identified list of stakeholders.

IV. **MATERIALS**

The following materials were made available for the meeting:

1. Sign-In Sheet(s)
2. Watershed Map / Basin Map
3. Meeting Presentation
4. Example Approved Regional Bacteria Reduction Plans

V. **MEETING SYNOPSIS**

Location

Lake Jackson Public Library
250 Circle Way
Lake Jackson, TX

When

Tuesday, March 12, 2019
2 PM – 4 PM



Attendees

NAME	ORGANIZATION REPRESENTED	ASSUMED COUNTY?
Debbie Webb	City of Lake Jackson	Brazoria
Brian Koch	TSSWCB	Wharton
Amy Condon	Realtor	Brazoria
Colleen Roco	TPWD	Galveston
Kermit Licklider	Self	Brazoria
Sonja Draper	Brazoria County	Brazoria
Travis Walthall	BASF	Brazoria
James Price	Self	Brazoria
Susana Blausler	BGE	Brazoria
Sara Berry	Self	Brazoria

Meeting Summary

Mr. Steven Johnston from H-GAC provided a presentation that included an agenda, reviewed data specific to the Oyster Creek watershed and information contained in the draft Oyster Creek Technical Support Document. Mr. Johnston reviewed the roles and responsibilities of the Oyster Creek coordination committee. He discussed the anticipated time requirement of committee members, including the potential of two to three additional meetings. Mr. Johnston also noted that members could invite additional individuals and organizations to participate. The group then reviewed and discussed potential bacteria reduction measures. To facilitate the discussion, the attendees were provided copies of several completed and approved plans:

- The San Bernard Watershed Protection Plan (<http://www.houstontx.gov/planhouston/sites/default/files/plans/SanBernardWatershedProtectionPlan121912.pdf>)
- The Tres Palacios Implementation Plan <https://www.tceq.texas.gov/assets/public/waterquality/tmdl/108trespalacios/108b-trespalacios-iplan-approved.pdf>
- The Tres Palacios Watershed Protection Plan <http://twri.tamu.edu/media/685704/tr-500.pdf>
- Navasota River Below Lake Limestone Watershed Protection Plan <http://twri.tamu.edu/media/661581/tr-497.pdf>



VI. NEXT MEETING

To Be Determined.

OYSTER CREEK WATERSHED TMDL PROJECT

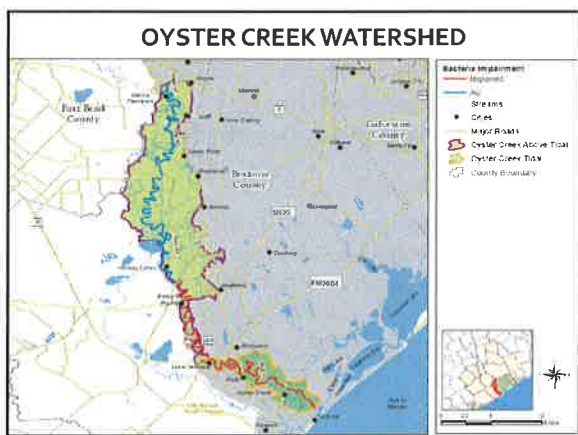
March 12, 2019

Steven Johnston

Meeting Agenda

- 2:00 – 2:05 Welcomes – Open Meeting
- 2:05 – 2:35 Coordination Committee Roles and Responsibilities
- 2:35 – 3:45 Watershed Based Planning/Bacteria Reduction
- 3:45 – 4:00 Wrap Up and Next Steps
- Adjourn



What's a Coordination Committee?

A proactive group of local and regional stakeholders helping to create and drive content for the TMDL/1-Plan and/or WPP documents.

Role of the Coordination Committee

- Attend Public Meetings
- Participate in Work Groups
- Act as Community Ambassadors
- Provide Input on Priorities for the Watershed
- Identify Appropriate Management Measures
- Provide Input on Documents & Reports

Group Discussion

(1) POTENTIAL INTERESTS

- Citizens
- Education
- Environmental Groups
- Government Interest
- Industry and Business
- Parks / Recreation
- Resource Agency
- Watersheds
- Wildlife
- Others?

(2) MEMBERSHIP REPRESENTATIVES

- Ideal size of the committee?
- Other committees range from 11 members to 18
- Number should be fairly distributed by interest

(3) PROCESSTYPES

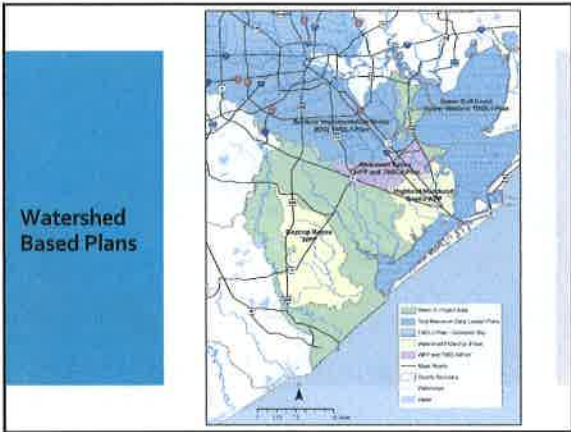
<p>FORMAL</p> <ul style="list-style-type: none"> • Formal nominations • Recorded votes • Written rules of order 	<p>INFORMAL</p> <ul style="list-style-type: none"> • Informal nominations • Consensus based • Ground rules
---	--

(4) MISSING PIECES

- Who should be here that isn't?
- Are we missing major industry or stakeholder groups?

Coordination Committee Decision Process

FORMAL	INFORMAL
<ul style="list-style-type: none"> ▶ Establish bylaws that govern the actions of the committee ▶ Adhere to Open Meeting Act Requirements 	<ul style="list-style-type: none"> ❖ Develop a set of ground rules that will be used to govern the committee ❖ Committee members approve ground rules and their use



The Pros and Cons

TMDL/I-Plan	WPP
<ul style="list-style-type: none"> ▶ Pros <ul style="list-style-type: none"> ▶ Mostly Voluntary ▶ Single Pollutant ▶ Short Time-Frame ▶ Permittees can be ahead of the curve ▶ Mostly Urban Watersheds ▶ Cons <ul style="list-style-type: none"> ▶ Other WQ concerns ▶ No 319 Funding 	<ul style="list-style-type: none"> ❖ Pros <ul style="list-style-type: none"> ❖ Voluntary ❖ Address multiple concerns ❖ Rural Watersheds ❖ 319 Funding Source ❖ Cons <ul style="list-style-type: none"> ❖ Longer Time-Frame ❖ Not typically used by State Permit Process

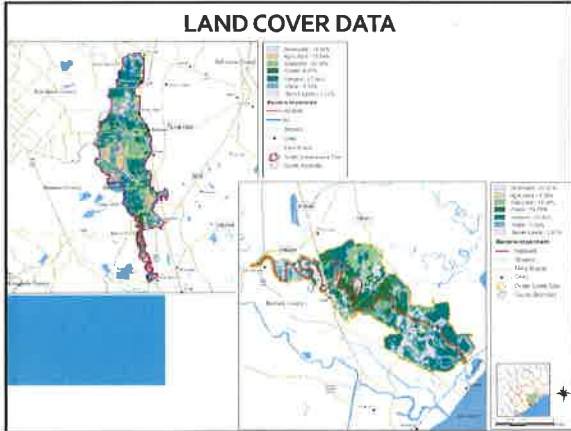
What are Management Measures?

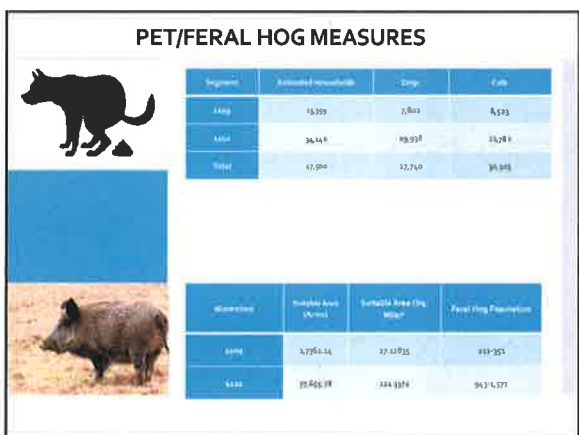
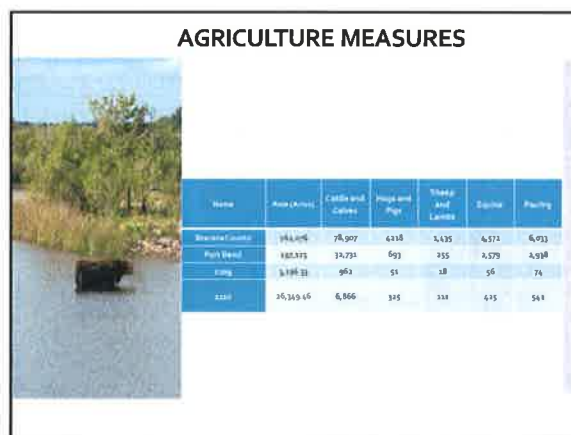
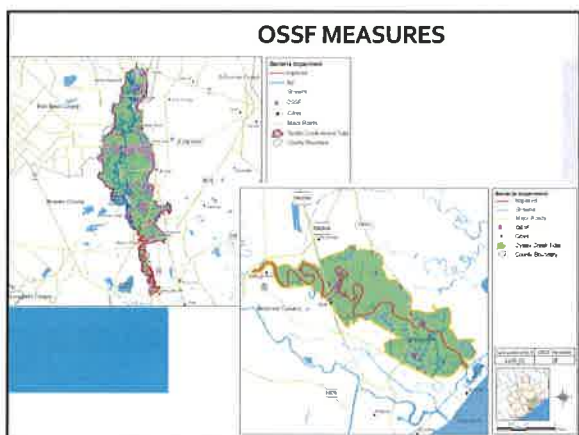
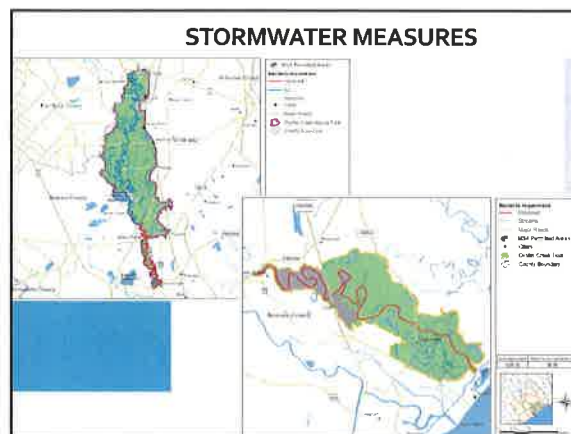
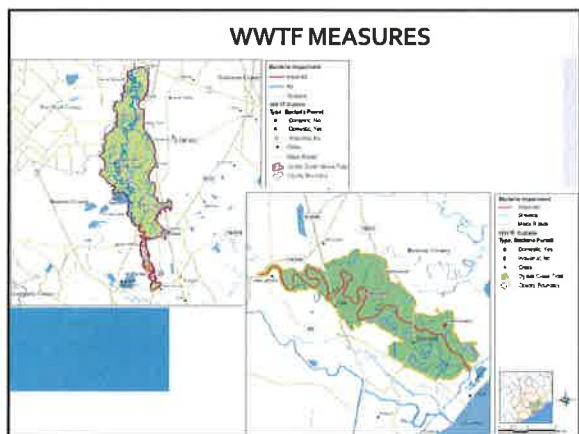
Existing measures are a menu of voluntary strategies stakeholders can use to reduce bacteria levels in Oyster Creek.

Management Measures Address

Common Bacteria Sources

- Domestic pets (dogs, cats)
- Leaking wastewater infrastructure
- Wildlife (feral hogs, deer, bird, raccoon, etc)
- Onsite Sewage Treatment
- Urban lawns and landscaping
- Agriculture/Pasture





Group Break-out/Discussion Management Measures

Step 1: Review Sample Watershed-based Plans (Break into groups, if possible)

- Highlight key measures or areas
- Consider Oyster Creek Sources (i.e. are sample measures practical here)

Step 2: Discuss findings within the group

- Recommend measures (consider potential implementers)
- Prioritize if possible

Step 3: Group Reports

- Report group findings to the Committee

Next Steps in the TMDL/I-Plan and/or WPP Process




- CC – Reviews and Selects Draft Measures (March 2019)
- H-GAC Drafts Reduction Measures (March 2019)
- H-GAC Drafts TMDL /I-Plan and/or WPP (April 2019)
- CC – Reviews Draft Plan (May 2019)
- Basin 11 Leadership Forum (May 2019)
- TMDL/WPP Draft Submitted to TCEQ (June 2019)

Thank You!


info@h-gac.com
www.h-gac.com
www.gulf-biohighway.com




Implementation: Workshops, Training and Resources



Texas Stream Team Training – February 2018



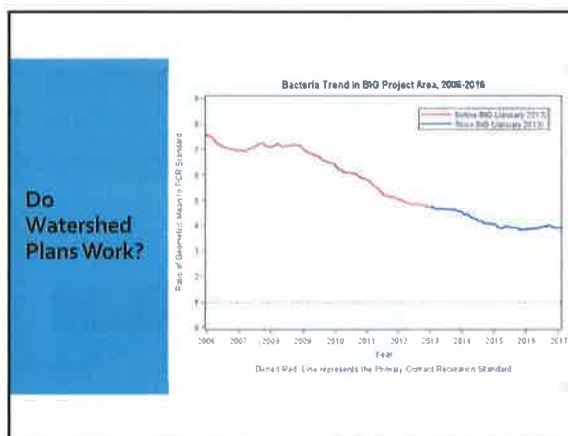
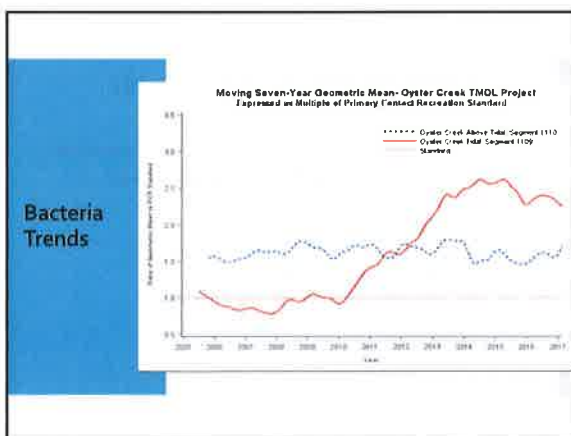
Texas Watershed Stewards Training/July 11, 2017

Implementation: Outreach and Education





<https://coastalcommunitiesTX.com>


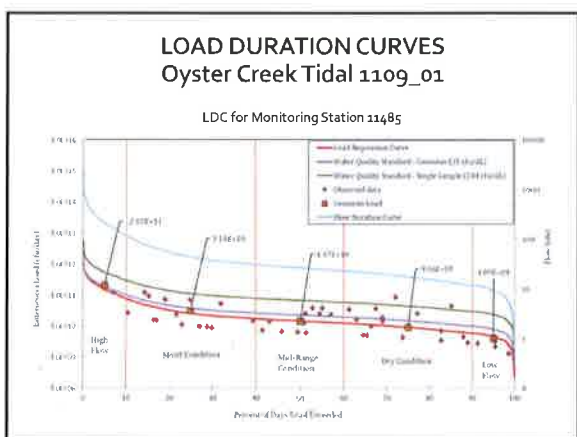
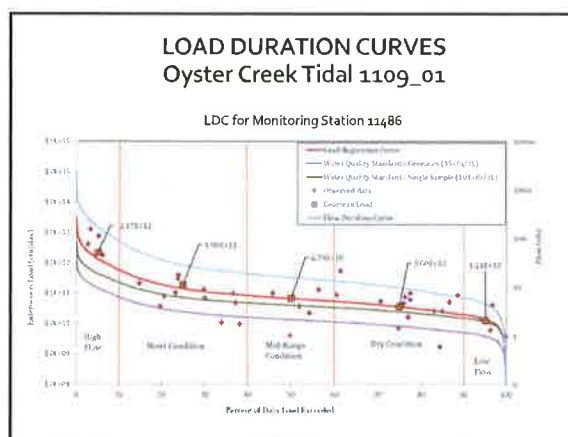
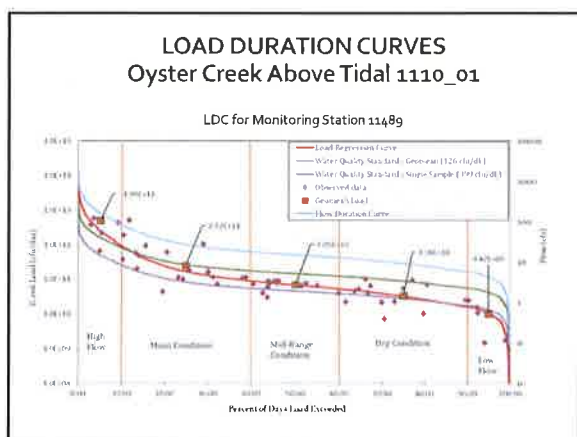


Determining Pollutant Loadings – LDC Approach

- Load Duration Curve (LDC) Method Used
- Method is widely accepted by EPA and Texas for development of bacteria WBPs
- Modification of LDCs for tidal streams pioneered by State of Oregon and being used in Texas for TMDL development.
- TMDLs adopted by TCEQ and approved by EPA in 2016 for Tidal segments of Mission & Aransas Rivers used Modified FDCs/LDCs

LDC Development Requires

- streamflow data
- bacteria (Enterococci & *E. coli*) data
- salinity data (for Modified Approach)
- the relevant bacteria criterion

BACTERIA REDUCTION

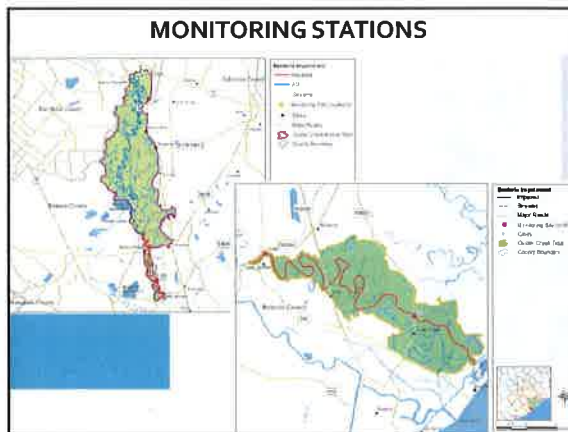
Flow Condition	Exceedance Range	1109		1101	
		Enterococci		<i>E. coli</i>	
		35 MPN/100mL	125 MPN/100mL		
		Geometric Mean (MPN/100mL)	Required Percent Reduction	Geometric Mean (MPN/100mL)	Required Percent Reduction
High Flow	10-10%	333.33	89.49%	679.66	81.46%
Most	10-50%	209.76	81.33%	170.61	53.44%
Mid-Range	10-50%	171.88	80.01%	149.01	33.34%
Dry	10-99%	151.77	77.09%	144.67	12.91%
Low Flow	10-100%	118.98	70.58%	89.50	0.00%

TMDL

TMDL = WLA (WLA_{10/27} and WLA_{5/2}) + LA + FG + MOS

Draft TMDL TSD – (Preliminary)

PH	TR	TMDL ¹ (lb/day NH ₃ -N)	NDS ² (lb/day NH ₃ -N)	WLA _{10/27} ³ (lb/day NH ₃ -N)	WLA _{5/2} ⁴ (lb/day NH ₃ -N)	LA ⁵ (lb/day NH ₃ -N)	FG ⁶ (lb/day NH ₃ -N)
WRLM	Estimate	344.68	1.69	9.19	1.87	116.83	5.50
HRM	E. Coli	495.79	24.79	33.15	19.06	399.01	19.76





San Jacinto – Brazos Coastal Basin: Public Outreach Report

Oyster Creek Coordination Committee Meeting

May 23, 2019

TABLE OF CONTENTS

I.	OVERVIEW	2
II.	PURPOSE	2
III.	APPROACH	3
IV.	NOTIFICATION	3
V.	MATERIALS	3
VI.	MEETING SYNOPSIS	3
VII.	NEXT MEETING	5



I. OVERVIEW

Per Umbrella Contract 582-18-81222-04, the Texas Commission on Environmental Quality (TCEQ) requested Public Outreach support from the Houston-Galveston Area Council (H-GAC) for Basin 11, with activities for all elements of Public Outreach including, but not necessarily limited to:

- Identifying and Reserving Facilities for Meetings and / or Events;
- Providing a Facilitator for Any Meetings (As Needed);
- Providing Support for Organizing and Advertising Meetings and / or Events;
- Distribution and Posting of Meeting Agenda(s);
- Preparation of Meeting and / or Event Summaries;
- Preparation of Printed or Other Presentation Materials in Support of a Meeting and / or Event;
- Use of the H-GAC Website for Posting Meeting and / or Event Information; and
- Any Other Necessary Support Activities.

On May 23, 2019 (Oyster Creek Coordination Committee (CC) Meeting), H-GAC conducted a meeting in the City of Angleton to discuss Oyster Creek water quality data; review and discuss elements of a bacteria reduction plan; and discussed next steps. H-GAC provided a bacteria reduction best practice questionnaire for the attendees to take and discuss.

II. PURPOSE

Oyster Creek, a waterbody within Basin 11, which originates in Fort Bend County, transverses the middle of Brazoria before entering the Gulf of Mexico by way of Intra Coastal Water Way and the Freeport Channel. Portions of the waterbody do not meet the state's contract recreation standards due to elevated levels of fecal bacteria. The Oyster Creek CC is meeting with the purpose of developing a bacteria reduction plan.

The Oyster Creek CC met to discuss the following:

1. Review Oyster Creek water quality;
2. Review and discuss water quality management opportunities;
3. Take a management measure questionnaire; and



4. Discuss next steps.

III. **APPROACH and NOTIFICATION**

A list of stakeholders and interested parties was generated based on the attendance at previous public and watershed stakeholder meetings, efforts to contact organizations, interest groups and private individuals directly and word of mouth through attendees and via the Brazoria County Facts newspaper. Identified stakeholders were contacted directly via e-mail, phone and/or letter to notify them of the second CC meeting. The meeting announcement was placed on the H-GAC website. Additional meeting details; and meeting reminders were sent to the identified list of stakeholders.

IV. **MATERIALS**

The following materials were made available for the meeting:

1. Sign-In Sheet(s)
2. Meeting Presentation/Agenda
3. Example Approved Regional Bacteria Reduction Plans
4. Management Measure Survey

V. **MEETING SYNOPSIS**

Location

Brazoria County Public Library in Angleton
401 E. Cedar Street
Angleton, TX 77515

When

Thursday, May 23, 2019
3 PM – 5 PM



Attendees

NAME	ORGANIZATION REPRESENTED	ASSUMED COUNTY?
Debbie Webb	City of Lake Jackson	Brazoria
Cathy Sweet	Texas Master Naturalists	Brazoria
Chip Sweet	Texas Master naturalists	Brazoria
Mike Mullenweg	Brazoria County Parks	Brazoria
Travis Walthall	Self	Brazoria
Brian Koch	TSSWCB	Wharton
Amy Condon	Integrity Mortgage Group	Brazoria
Aleisha Pander	Alvin Community College	Brazoria
Bryan Frazier	Brazoria County Parks	Brazoria
Kent Evans	Self	Brazoria
Jazmyn Milford	TCEQ	Brazoria
Becki Begley	H-GAC	Harris

Meeting Summary

Mr. Steven Johnston from H-GAC provided a presentation that included an agenda, a summary of data specific to the Oyster Creek watershed and information contained in the draft Oyster Creek Technical Support Document. Mr. Johnston reviewed potential fecal bacteria sources and potential solutions. The group then took a management measure questionnaire and discussed potential bacteria reduction measures.


VI. NEXT MEETING

To Be Determined.

OYSTER CREEK WATERSHED TMDL PROJECT

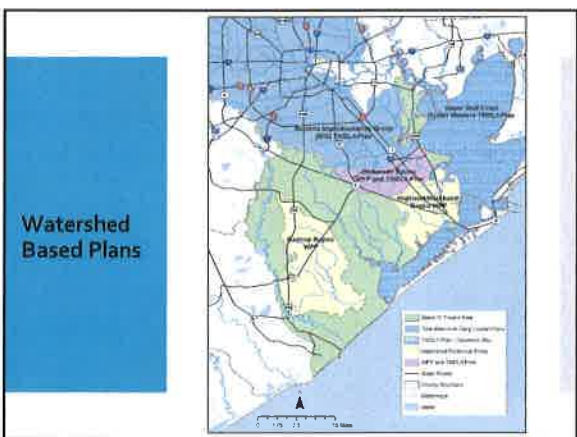
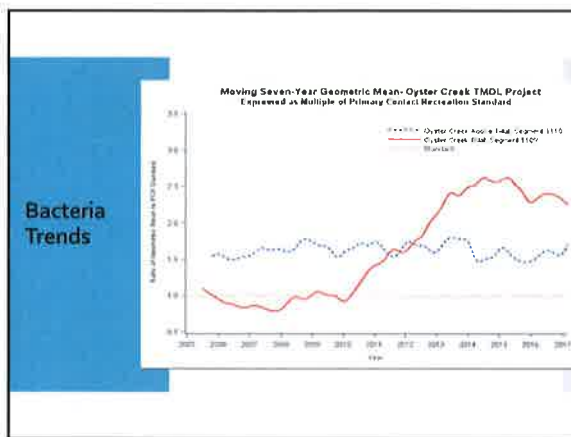
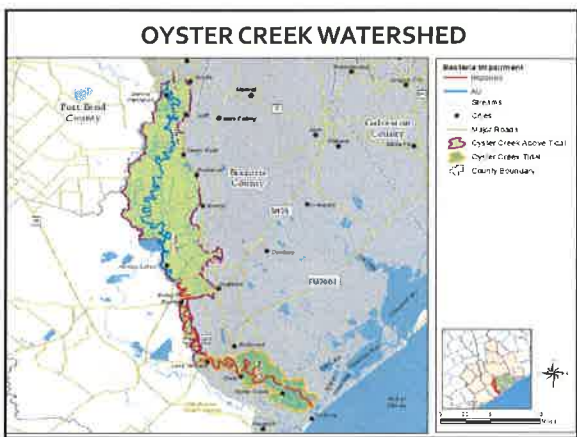
May 23, 2019

Stevan Johnston






Meeting Agenda

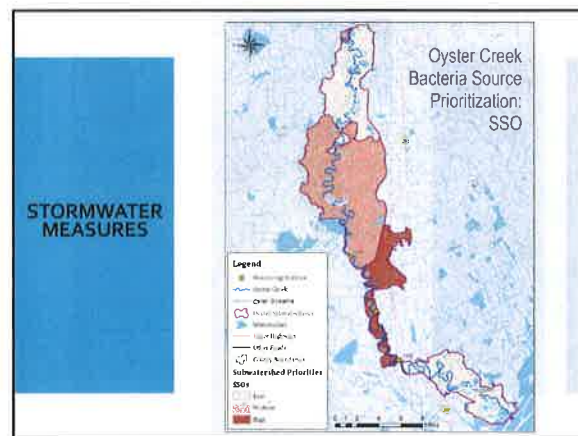
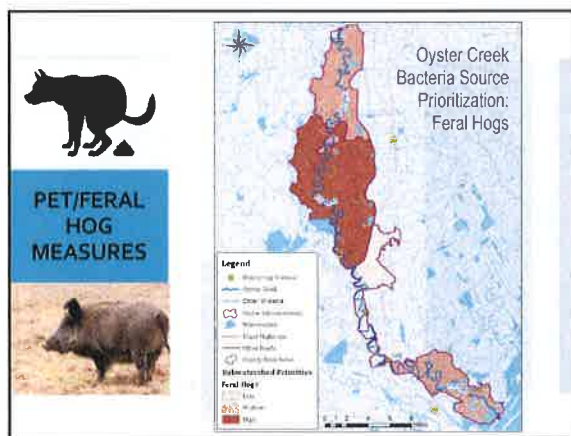
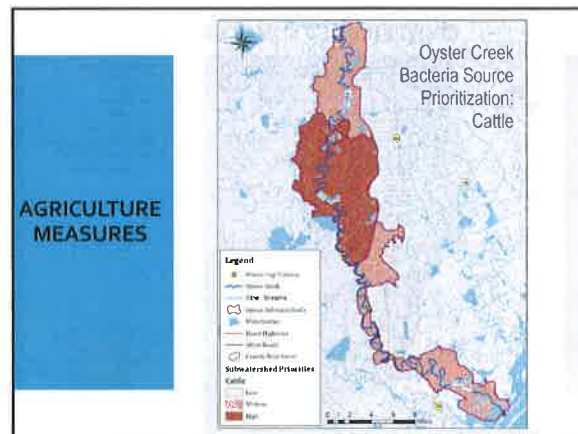
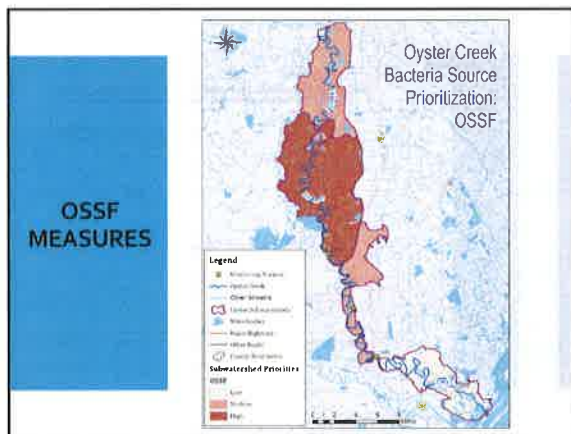
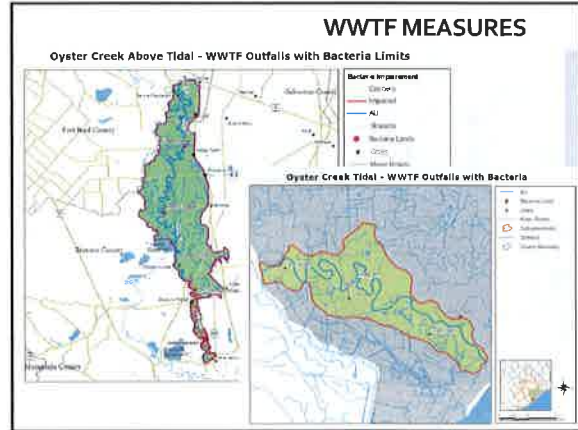
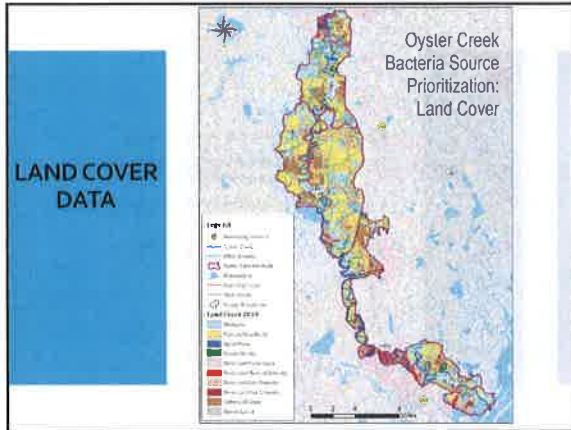
- * 3:00 – 3:05 Welcome - Open Meeting
- * 3:05 – 3:35 Coordination Committee Roles and Responsibilities
- * 3:35 – 4:45 Watershed Based Planning/Bacteria Reduction
- * 4:45 – 5:00 Wrap Up and Next Steps
- * Adjourn



Management Measures Address

- Common Bacteria Sources
- Domestic pets (dogs, cats)
- Leaking wastewater infrastructure
- Wildlife (feral hogs, deer, bird, raccoon, etc.)
- Cosite Sewage Treatment
- Urban lawns and landscaping
- Agriculture/Pasture



Implementation: Workshops, Training and Resources



Texas Stream Team Training - February 2018



Texas Watershed Stewards Training/July 11, 2017

Implementation: Outreach and Education





<https://coastalcommunitiesTX.com>

BMP Survey/Discussion Management Measures

Step 1: Review Sample Watershed-based Plans
(Break into groups, if possible)

- Highlight key measures or areas
- Consider Oyster Creeks Sources (i.e. are sample measures practical here)

Step 2: Complete BMP Survey

- Recommend measures (consider potential implementers)
- Prioritize

Step 3: Discussion

- Report findings to the Committee

Next Steps in the TMDL/I-Plan and/or WPP Process



- CC – Reviews and Selects Draft Measures (May 23, 2019)
- H-GAC Drafts Reduction Measures (May/June 2019)
- Basin 11 Leadership Forum (June 13, 2019)
- TMDL/I-Plan Draft Submitted to TCEQ (June 2019)
- H-GAC Drafts TMDL /I-Plan (Aug-Nov. 2019)
- CC – Reviews Draft Plan (Jan. 2020)
- Submit Draft Plan TCEQ (July 2020)

Thank You!

Basin 11 Committee
409.285.2124
Committee@basin11.org





Do Watershed Plans Work?

Bacteria Trend in BIO Project Area, 2006-2016

Y-axis: Bacteria (Colony Forming Units per 100 ml)

X-axis: Year


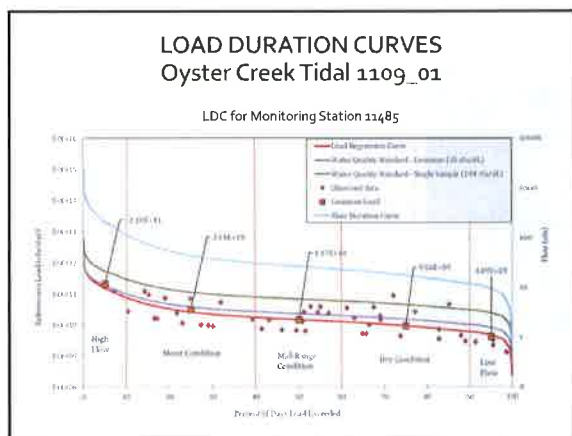
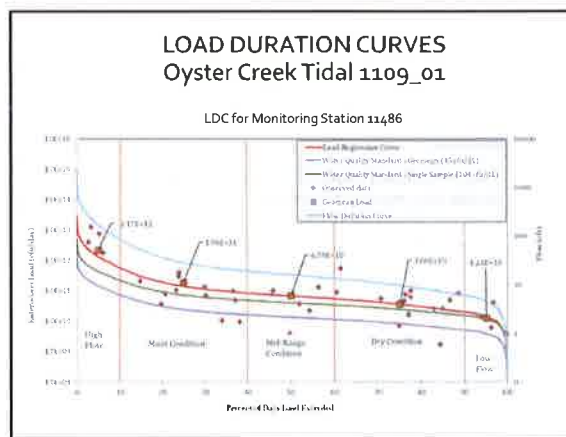
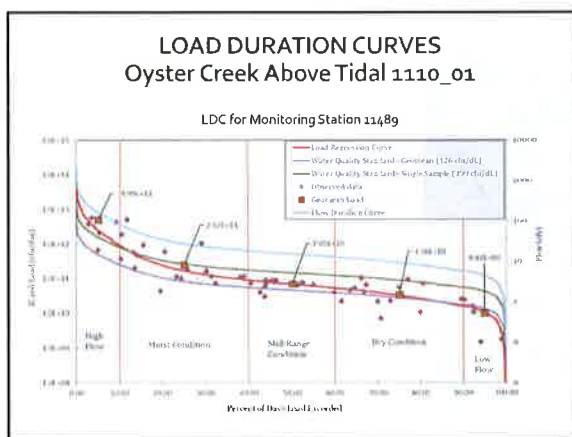
Dashed Red Line represents the Primary Contact Recreation Standard

Determining Pollutant Loadings - LDC Approach

- Load Duration Curve (LDC) Method Used
- Method is widely accepted by EPA and Texas for development of bacteria WBPs
- Modification of LDCs for tidal streams pioneered by State of Oregon and being used in Texas for TMDL development.
- TMDLs adopted by TCEQ and approved by EPA in 2016 for Tidal segments of Mission & Aransas Rivers used Modified FDCs/LDCs

LDC Development Requires

- streamflow data
- bacteria (*Enterococci* & *E. coli*) data
- salinity data (for Modified Approach)
- the relevant bacteria criterion

BACTERIA REDUCTION

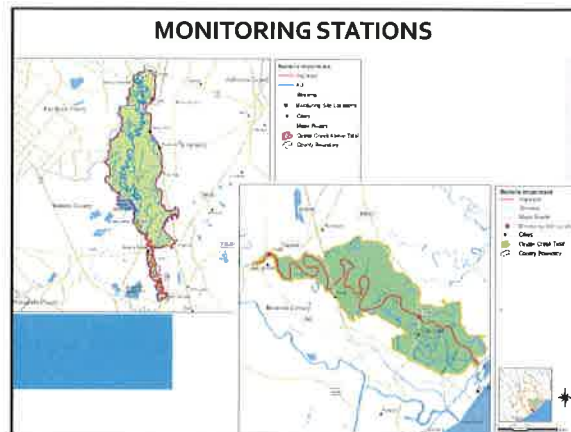
Flow Condition	Enterococcus Range	1109		1110	
		Enterococci		E. coli	
		35 MPN/100mL	115 MPN/100 mL		
	Geometric Mean (MPN/100mL)	Required Percent Reduction	Geometric Mean (MPN/100mL)	Required Percent Reduction	
High Flow	89-1091	333.88	59.43%	579.44	81.46%
Mean	115-3476	109.78	83.31%	170.63	53.44%
Mid Range	110-5046	179.24	80.01%	189.01	33.34%
Dry	160-9274	354.77	77.09%	144.67	11.91%
Low Flow	190-10270	118.98	70.58%	89.50	0.00%

TMDL

TMDL = WLA (WLA_{sed} and WLA_{org}) + LA + FG + MOS

Draft TMDL TSD - (Preliminary)

WLA	LA	FG	MOS	TMDL
WLA _{sed}	166.68	1.69	9.39	177.76
WLA _{org}	695.79	14.79	33.15	743.73



STRATEGY AREA	FECAL BACTERIA SOURCE	WATERSHED CONCERN	Rank	BEST PRACTICE	Description	Rank	COMMENTS
Agriculture		Circle answer	High, Medium or Low				Provide any addition thoughts or information. Is there anything missing?
				Water Quality Management Plans	A plan coordinated with assistance from the TSSWCB and local Soil and Water Conservation District installing water quality best practices.		
				Conservation Plans	A plan coordinated with assistance from the Natural Resource Conservation Service installing water quality best practices.		
	Animal Husbandry (Cattle, Sheep and Goats, Horses)	Y	N	Riparian/Vegetative Buffers	A best practices that can be initiated by agriculture producers and land owners. Can include designating areas for conservation easement purposes.		
				Technical Assistance/Workshops	Focus specifically on encouraging voluntary implementation of best practices. Bring owners and operators together with Federal, State and local partners for technical exchange. Exchange ideas for increasing yields while reducing wastes reaching waterways.		
				Water Quality Management Plans	Might not be applicable.		
				Comprehensive Nutrient Management Plans	A plan coordinated with assistance from the Natural Resource Conservation Service installing water quality best practices.		
	CAFO	Y	N	Riparian/Vegetative Buffers	A best practices that can be initiated by agriculture producers and land owners. Can include designating areas for conservation easement purposes.		
				Operation-Community Exchange	Stakeholder outreach to exchange ideas between CAFO operator and community to encourage watershed stewardship.		
				Water Quality Management Plans	A plan coordinated with assistance from the TSSWCB and local Soil and Water Conservation District installing water quality best practices.		
	Manure Application	Y	N	Conservation Plans	A plan coordinated with assistance from the Natural Resource Conservation Service installing water quality best practices.		
				Riparian/Vegetative Buffers	A best practices that can be initiated by agriculture producers and land owners. Can include designating areas for conservation easement purposes.		
			Technical Assistance/Workshops	Focus specifically on encouraging voluntary implementation of best practices. Bring owners and operators together with Federal, State and local partners for technical exchange. Exchange ideas for increasing yields while reducing soil erosion and applied fertilizer/wastes reaching waterways.			

STRATEGY AREA	FECAL BACTERIA SOURCE	WATERSHED CONCERN	Rank	BEST PRACTICE	Description	Rank	COMMENTS
Instruction Septic Systems and Illegal Dumping		Circle answer	High, Medium or Low	Identify and Prioritize Areas	Develop a Plan. Work with Authorized Agents to identify all systems within the watershed. Prioritize those areas with high system densities, failures or citations, and proximity to waterways.	High, Medium or Low	Provide any additional thoughts or information. Is there anything missing?
	Septic Systems (OSSFs)	Y	N	Bring Systems into Compliance	Working from plan, bring financial and technical assistance to address failures (i.e. pump-out, maintenance, repairs, and replace.) When functioning properly, septic systems should not contribute bacteria. In some cases and under the right conditions there is sufficient density, insufficient lot sizes, proximity to centralized waster water treatment, and/or community support to connect to a centralized system.		
				Convert to Sanitary Sewer (where applicable)	Workshops and community events that support the provisioning of technical and financial assistance.		
	Dumping of Animal Carcasses and sanitary wastes	Y	N	Reduction Plan	Responsible parties identify causes and solutions. Solutions can include strengthening and expanding existing rules and regulations; identifying partnerships; identifying dump areas and using cameras for enforcement; ensuring adequate locations for legal dumping (WWTF do not always except pump-outs); local official education and other solutions.		
			Community Outreach and Education	Host community events that include outreach and education, trash clean-ups, etc.			

STRATEGY AREA	FECAL BACTERIA SOURCE	WATERSHED CONCERN	Rank	BEST PRACTICE	Description	Rank	COMMENTS
<i>Instruction</i>		<i>Circle answer</i>	<i>High, Medium or Low</i>			<i>High, Medium or Low</i>	<i>Provide any addition thoughts or information. Is there anything missing?</i>
Feral Populations and Pet Wastes	Feral Hogs	Y N	<i>High, Medium or Low</i>	Management Controls	Trapping, hunting and baiting have all been used to control feral hog populations. Some counties have provided bounties to encourage feral hog controls. TPWD has designated the animal as an invasive species and they can be hunted year round.		
				Technical Assistance and Education	Activities to target priority areas where landowners should be contacted to discuss the economic savings of removing feral hogs, methods for removal, and available programs that can assist with removal.		
				Install Pet Waste Stations in public areas	Installing pet waste stations in high public areas and apartment complexes can assist in limiting pet wastes and provide educational opportunities.		
	Pet Wastes (for census designated places and MS4)	Y N		Evaluate Feral Populations and consider spay/neuter clinics Community Outreach	Determine if feral pet populations are a problem for the watershed. Provide free clinics to address if this is a problem. During community events, provide pet waste education.		

STRATEGY AREA	FECAL BACTERIA SOURCE	WATERSHED CONCERN	Rank	BEST PRACTICE	Description	Rank	COMMENTS
<i>Instruction</i>		<i>Circle answer</i>	<i>High, Medium or Low</i>			<i>High, Medium or Low</i>	<i>Provide any addition thoughts or information. If there anything missing?</i>
Waste Water Management and Sanitary Sewer Collection System				Maintain WWTF Operation	When operating as designed, WWTF are not considered a source of bacteria. However, plants can reach the end of their operational age, have equipment and infrastructure failures, and other operational needs. This practice would seek to identify with assistance from operators, plants that could enhance operations, maintenance, and processes to improve effluent.		
	Waste Water Management	Y N		Wastewater Reuse	TCEQ guidance allows for WWTFs to divert all or part of their effluent for a reuse purpose, including irrigation, community water features, and in some instances when meeting the standards, drinking water. Plant operators and the community could consider whether reuse is an option.		
				Technical Assistance	Workshops and other technical assistance would be provided to the watershed to improve operations and training.		
				Maintain Collection System	Work with WWTF operators to identify and prioritize aging infrastructure and problem areas with the collection system. Enhance ability to detect by purchasing cameras and telescoping probes to inspect the system. Repair and replace aging and failing segments and develop a routine schedule of maintenance and plan for eventual replacement.		
	Sanitary Sewer Collection System	Y N		Maintain Lift Stations	If lift stations are in use, ensure that all lift stations have sufficient backup capacity to allow for continual operation. Disruptions due to a lack of alternative power generation, bypass pumps, etc. can cause failures.		
				Community Outreach and Education	Use community events and utility mailers to present facts, oils, grease, and wipe education as causes for sanitary sewer overflows.		

STRATEGY AREA	FECAL BACTERIA SOURCE	WATERSHED CONCERN	Rank	BEST PRACTICE	Description	Rank	COMMENTS
Instruction		Circle answer	High, Medium or Low			High, Medium or Low	Provide any additional thoughts or information. Is there anything missing?
Stormwater Management	Urban Sources	Y		Investigate Drainage Channels	This measure would work with MS4 (a requirement) and the other census designated communities, utility districts, ISDs, and industry to survey drainage channels to identify illicit discharges and investigate sources of bacteria. Any sources found would be addressed appropriately.		
		N		Urban Riparian Buffers	Maintaining vegetative strips and other riparian buffers maintains channel stability and offers the potential for stormwater quality enhancement. Local governments and drainage districts can look for opportunities to enhance the buffer areas, stabilize eroding segments and consider other watershed enhancements.		
				Technical Assistance and Community Outreach	Use the bacteria reduction plan to coordinate technical assistance workshops and community outreach watershed wide. This measure would support successful implementation of the MS4 permit. Note that some funding sources limit use of funds to non-permit requirements.		
				Land Management	In the rural portions of the watershed, maintaining the drainage system for flood management is the primary focus of Drainage Districts. For this best practice, one found in urban and agriculture areas, would allow for managing the drainage area buffer zone. Enhance the vegetative structure of the zone to stabilize the banks and enhance the water quality within the zone.		
	Rural Stormwater	Y		Voluntary Conservation Technical Assistance and Community Outreach	Dedicating land for conservation purposes has grown in the region and within the state. The practice would look for opportunities to repair and enhance riparian zones and adjacent uplands by seeking funding to establish conservation easements and restoration of vegetative structure.		
		N			Use the bacteria reduction plan to coordinate technical assistance workshops and community outreach watershed wide.		



Houston-Galveston Area Council

July 17, 2019

Jazmin Milford (MC 203)
TMDL Project Manager
Water Quality Division
Texas Commission on Environmental Quality
12100 Park 35 Circle, Bldg. F
Austin, Texas 78753

RE: July 2019 Progress Report for Contract 582-18-81222, Work Order 4, Basin 11.

Dear Ms. Milford:

Enclosed is one (1) copy of the FY 2019 4th Progress Report for Contract No. 582-18-81222-4. It covers all deliverable/task activities for the project period June 1, 2019 through June 30, 2019. Financial Statements, HUB report and Voucher will be submitted separately.

Included in this Report are:

1. One copy of the progress report for June 1, 2019 thru June 30, 2019.
2. Copies of meeting summaries and other pertinent materials from project related meetings.

We hope you find the quarterly report satisfactory. Any comments you have will be appreciated. If you have any questions, please contact me by phone (713-993-4549) or E-mail (todd.running@h-gac.com).

Sincerely,

A handwritten signature in blue ink, appearing to read 'Todd Running', is written over a light blue horizontal line.

Todd Running
Water Resources Program Manager
Community & Environmental Planning Dept.

CC Jason Leifester
Chis Loft

TR/srj
Enclosures

**TMDL Program
FY 2019 Progress Report 4**

Date: July 17, 2019

Time Period Covered: 6/01/2019 – 06/30/2019

Name of Project: Basin Approach to Address Bacterial Impairments in the San Jacinto – Brazos Coastal Basin (Basin 11)

Contract No./Work Order 582-18-81222-04

TASK #1. PROJECT ADMINISTRATION

Deliverable(s)	Due Date	Status
List all deliverables under the task described above	List the due dates for each deliverable	If the deliverable has been completed, enter the date submitted to the TCEQ. If the deliverable has not been completed, briefly describe the status of each deliverable.
Quarterly/Monthly Progress Report	July 15, 2019	Monthly report for Work Order submitted electronically on July 17, 2019
Invoice	July 15, 2019	Invoices will be submitted under another cover.
Project Updates	Weekly	Provided for June 2019.

Work Performed This Period – detail all activities for this task and briefly describe the progress on each deliverable:

Work performed for this task during this period included writing and assembling the monthly report. Copies of weekly emails are attached.

TASK #2. PUBLIC EDUCATION AND OUTREACH

Deliverable(s)	Due Date	Status
List all deliverables under the task described above	List the due dates for each deliverable	If the deliverable has been completed, enter the date submitted to the TCEQ. If the deliverable has not been completed, briefly describe the status of each deliverable.
Development of meeting materials (Task 2.1)	Invitation letters, emails, press releases, and informational materials announcing meeting/event.	Oyster Creek CC meetings were held on March 12 th and May 23 rd . Meeting announcements, press releases, and emails were prepared within a month prior to meeting. Materials shared with TCEQ prior to the meeting. Leadership Forum #1 and Chocolate Bayou CC #2 were held on June 13, 2019. Meeting announcements, press releases, and emails were prepared within a month prior to meeting. Materials shared with TCEQ prior to the meeting.
Host two or more watershed stakeholder meetings (Task 2.2)	As needed	<ul style="list-style-type: none"> • A public meeting was held on November 14, 2018. • Oyster Creek stakeholder meeting was held on January 29, 2019. • Oyster Creek CC meeting was held on March 12, 2019. • Oyster Creek CC meeting was held on May 23, 2019 • Basin 11 Leadership Forum was held June 13, 2019 • Chocolate Bayou CC meeting was held June 13, 2019.
Copies of agendas and presentations for meetings (Task 2.3)	Due 2 weeks before distribution	An Agenda was incorporated within each presentation. A draft presentation for both meetings were shared on 6/7/2019.
Summary of meetings (Task 2.4)	Within 2 weeks after meetings	A brief summary was included with the weekly report. Full summary is included for each meeting with this report.
List of general stakeholders (Task 2.5)	Maintain and update as appropriate. Provide to TCEQ when requested.	Maintained and updated as needed.
Facilitate delivery of Education programs (Task 2.6)	One or more during work order period.	No Update.

Public participation/outreach summaries (Task 2.7)	With PRs	Provided in discussion below.
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Work Performed This Period – detail all activities for this task and briefly describe the progress on each deliverable:

Work related to this task focused on planning for the Basin 11 Leadership Forum meeting held on June 13, 2019 at Nolan Ryan Center Alvin, TX and the Chocolate Bayou CC meeting held on June 13 at the Brazoria Co. Public Library in Alvin, TX. This included: (Copies of the meeting materials and meeting summary are attached to this report)

- Updating potential stakeholder contact information
- Identifying and scheduling a meeting location
- Drafting meeting announcement and press release
- Emailing meeting announcement and press release and follow-up
- Creating the meeting agenda and presentation

June 13, 2019 – Basin 11 Leadership Forum, Alvin Community College (Nolan Ryan Center) 10:00 AM-12:00 PM. Twelve local government and permit holders were in attendance, including representatives from Galveston and Brazoria County and three cities: Lake Jackson, Clute, and Hillcrest Village. H-GAC provided a high-level presentation on Basin 11 water quality and watershed-based planning efforts. A facilitated discussion followed centering on plans currently being developed and future efforts to implement and how a regional group like the Forum might assist in those efforts.

June 13, 2019 – Chocolate Bayou CC and public meeting was held at the Alvin Public Library from 4-6 PM. Four stakeholders, including a reporter from The Facts, were present. H-GAC provided a presentation covering background information on water quality in Chocolate Bayou, changes to the TSD and TMDL document, and an update on the Chocolate Bayou I-Plan.

TASK #3 DEVELOP OR UPDATE QAPPs FOR ACQUIRED DATA AND MONITORING DATA

Deliverable(s)	Due Date	Status
List all deliverables under the task described above	List the due dates for each deliverable	If the deliverable has been completed, enter the date submitted to the TCEQ. If the deliverable has not been completed, briefly describe the status of each deliverable.
Acquired Data QAPP Amendments (Task 3.1)	As needed.	None required.
Acquired Data QAPP Update (Task 3.2)	As needed	Annual update for FY2018 submitted to TCEQ in early September. Approval made in October.
QAPP CARs (Task 3.3)	As needed	None required.
Quality assurance audits (Task 3.4)	Will participate as needed	None required for the quarter.

Work Performed This Period

Received a copy of the QAPP update shell. The QAPP update will begin in July.

TASK #4 TECHNICAL SUPPORT DOCUMENT FOR HALLS BAYOU

Deliverable(s)	Due Date	Status
List all deliverables under the task described above	List the due dates for each deliverable	If the deliverable has been completed, enter the date submitted to the TCEQ. If the deliverable has not been completed, briefly describe the status of each deliverable.
Draft TSD for Halls Bayou (Task 4.1)	January 15, 2019	Staff completed the draft TSD and submitted to the TCEQ on 1/15/2019.
Final TSD for Halls Bayou	Within two weeks of receipt of TCEQ comments on draft.	Received comments on 2/28/2019.

Work Performed This Period – detail all activities for this task and briefly describe the progress on each deliverable:

H-GAC completed revisions to the draft Halls Bayou TSD. The document was resubmitted to TCEQ in May.

TASK #5 TMDL SUPPORT FOR CHOCOLATE BAYOU ADOPTION

Deliverable(s)	Due Date	Status
List all deliverables under the task described above	List the due dates for each deliverable	Final progress report and evaluation submitted to TCEQ
TMDL support (Task 5.1)	As needed	TSD and TMDL document were revised and submitted in May 2019.

Work Performed This Period – detail all activities for this task and briefly describe the progress on each deliverable:

The TMDL document and TSD were resubmitted in May.

H-GAC staff prepared stakeholders for the eventual TMDL document and I-Plan. Staff held a Chocolate Bayou TMDL CC meeting for June 13, 2019. Meeting reviewed changes to the TSD and TMDL. H-GAC also reviewed best practices identified in the plan development process and review source priority maps with the attendees.

TASK #6 WATERSHED CHARACTERIZATION REPROT FOR MUSTANG BAYOU

Deliverable(s)	Due Date	Status
List all deliverables under the task described above	List the due dates for each deliverable	Final progress report and evaluation submitted to TCEQ
Draft Characterization Report (Task 6.1)	June 15, 2019	Document was still being drafted in June
Final Characterization Report (Task 6.2)	Within two weeks of receipt of TCEQ comments on draft.	No progress.

Work Performed This Period – detail all activities for this task and briefly describe the progress on each deliverable:

Staff began drafting the document in June. There was a delay as several projects were held up due to the length in time to revise watershed boundaries, naturalize streamflow, update LDCs and TMDL calculations. The late start delayed delivery in June. The document will be delivered in July.

TASK #7 TMDL AND DEVELOPMENT OF SPECIFIC KEY ELEMENTS FOR A WPP FOR OYSTER CREEK

Deliverable(s)	Due Date	Status
List all deliverables under the task described above	List the due dates for each deliverable	Final progress report and evaluation submitted to TCEQ
Draft Oyster Creek TMDL (Task 7.1)	June 1, 2019	TMDL document was still being drafted in June.
Oyster Creek Work Group Meetings (Task 7.2)	One to four, as needed.	Coordination committee meetings – March 12, 2019 and May 23, 2019.
Final Oyster Creek TMDL and Key Elements WPP	Two weeks after receipt of TCEQ comments.	No progress reported.

Work Performed This Period – detail all activities for this task and briefly describe the progress on each deliverable:

Staff revised the LDCs using updated flow for Chocolate Bayou in May. The draft Oyster Creek TMDL document was started during in the previous quarter but was slowed due to delays in completing the LDCs. The TMDL calculations were made in June. The draft TMDL was submitted on June 22, 2019.

The revised TMDL was not submitted. In the process of reaching out to local governments and elected officials for the Basin 11 Leadership Forum, the town of Oyster Creek contacted H-GAC. The city manager talked about stormwater and where all stormwater from the town leaves. There is a levy built up around the town. Due to the levy, all stormwater is captured in a canal. The canal flows to a pump station that then pumps the water into a marsh adjacent to the ICWW. Stormwater from the town of Oyster Creek does not flow to Oyster Creek. H-GAC will need to remove this area of the watershed and recalculate the LDCs and TMDL along with adjusting other datasets (i.e. population, land cover, etc.). H-GAC expects to do this in August and will seek to complete the revised TSD, TMDL and WPP by August 31, 2019.

The key elements of a WPP were also started. Source load calculations were completed, and source reduction values were estimated. The Oyster Creek CC meeting on May 23, 2019 included a source survey that will be incorporated into the WPP document. The change in watershed boundary also affects this deliverable.

TASK #8 SUPPORT OF TEXAS STREAM TEAM PROGRAMS

Deliverable(s)	Due Date	Status
List all deliverables under the task described above	List the due dates for each deliverable	Final progress report and evaluation submitted to TCEQ
Organize trainings and provide monitoring kits (Task 8.1)	Provide summaries with PRs	A training event was scheduled for May 11, 2019. The event was canceled due to the threat of hazardous weather.
Target volunteer efforts (Task 8)	Provide summaries with PRs	No progress in this quarter.

Work Performed This Period – detail all activities for this task and briefly describe the progress on each deliverable:

H-GAC scheduled a TST training event at Brazosport College on May 11, 2019. The event was cancelled due to the threat of hazardous weather conditions. The event is being rescheduled for September, based on meeting space availability at the college.

PROJECT RELATED MEETINGS, WORKSHOPS, TRAINING OR EVENTS

- 1) Presentations:
 - a. June 12, 2019 – staff presented on LID to attendees of the Green Infrastructure for Texas conference in Pearland.
- 2) Meetings, Events and Conferences:
 - a. June 21, 2019 - Staff attended the GBEP Water and Sediment Quality Subcommittee and provided TMDL project updates.
- 3) Associated Implementation Projects and Programs
 - a. H-GAC's OSSF SEP is continues to work in the area. Two repair/replace projects are planned for the community of Holiday Lakes on Oyster Creek.
 - b. Staff are coordinating with a Coastal Communities project supported by the TCEQ 319 Program. Focus of the project is to provide stormwater outreach materials to local governments/political subdivisions in the coastal zone that do not have a MS4 permit. Work under this grant has led to coordination with Brazosport College to bring TST and OSSF training and outreach to the communities in south Brazoria County. Also, H-GAC has received local contributions from DOW and Olin companies to support this effort. This resulted in the purchase of 25 pet waste stations for Lake Jackson (15) and Brazosport College (10) for community parks. Additional funds will be spent on OSSF repair/replace and pump outs.

BRIEF DESCRIPTION OF OVERALL FINDINGS:

Work for this period focused on hosting the Basin 11 Leadership Forum and the Chocolate Bayou CC. Both meetings were held on June 13, 2019. The Leadership Forum was attended by a broad group of stakeholders, from elected officials, local governments and permit holders/consultants. The effort to complete this was extensive and included over 300 mail outs and select calls. Attendees suggest that identifying the meeting as a "Basin" meeting did not resonate with them. A different approach, one that is clearer and focuses on the opportunities that are present by attending would potential assist with a better turnout. Chocolate Bayou CC meeting was lightly attended. This was likely due to the delay in getting back to the group. For the next meeting, H-GAC will need to cast a new net to attract more stakeholders to attend. This will likely happen with the roll out of the I-Plan.

The Oyster Creek TMDL and the Chocolate Bayou I-Plan (under WO1) were delivered to TCEQ in June. There were delays as previously mentioned. H-GAC is working to catch up. More discussion on Oyster Creek and the need to revise the information again is discussed below.

Significant Problems (describe any scheduling shortfalls, detail significant problems and how these problems were resolved, etc.):

H-GAC is working to get caught up. One issue the developed and was mentioned briefly above, is the need to revise the draft Oyster Creek TMDL that was submitted in June. While reaching out to stakeholders in May and making targeted calls in early June, the city manager for the town of Oyster Creek contact H-GAC. H-GAC has previously reached out to the town in the past prior to the start of CC meetings (January 2019). The town has not participated. H-GAC discussed at length the topic of stormwater with the city manager and where the stormwater leaves the town of Oyster Creek. The city manager stated that stormwater does not enter Oyster Creek but is bypassed through a pump station to a marsh southwest of the town. A levy had been built around most of the town and stormwater collects in a channel and drains to the pump station. This information was verified by looking closely to the aerials for the town and Oyster Creek.

Having received this information in June and considering the size of the town, removing this part of the watershed is needed. It likely has a role to plan in why the downstream station just northeast of the town is not impaired. As the LDCs and TMDL are based on watershed area, they will need to be revised. Also, data that is based on the watershed size, like population, will need to be updated. This will delay the revision to the TSD,

require a revision to the draft TMDL document and update the recently developed bacteria source priority maps and loadings. H-GAC will try to update these in the month of August.

Johnston, Steven

From: Johnston, Steven
Sent: Wednesday, June 12, 2019 11:23 AM
To: 'Jazmyn Milford'
Cc: Jason Leifester (Jason.leifester@tceq.texas.gov); Chris Loft
Subject: FY 19 WO #4 Weekly Report (June 3 - June 7)

Good Morning, Jazmyn – Below you will find the weekly report for Work Order #4 under 582-18-81222. Please let me know if you have any questions.

June 3rd – June 7th:

Task 1 Project Administration

- **Anticipate Spend Down August 2019?:** Yes.
- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$180,000
- **Total Spent to Date: (May 31, 2019)** \$156,442.18 **Remaining Budget Amount:** \$23,557.82

Task 2 Public Education and Outreach Activities

- June 13, 2019 - Basin 11 Leadership Forum, Alvin Community College (Nolan Ryan Center) 10:00 AM-12:00 PM. Presentation submitted to TCEQ PM.
- June 13, 2019 – Chocolate Bayou CC and public meeting is scheduled at the Alvin Public Library from 4-6 PM. Presentation submitted to the TCEQ PM.
- June 12, 2019 Green Infrastructure workshop in Pearland. Registration open - <https://agrilife.org/gift/>. Staff will provide a presentation at the workshop.

Task 3 Quality Assurance

- No updates.

Task 4 TSD for Halls Bayou Tidal

- Staff resubmitted TSD on Friday, May 10, 2019.

Task 5 TMDL Support for Chocolate Bayou Adoption

- TMDL document and TSD were revised and documents submitted to the TCEQ PM.
- Chocolate Bayou stakeholder meeting is scheduled for June 13, 2019. Presentation submitted to the TCEQ PM.

Task 6 Watershed Characterization Report for Mustang Bayou

- Data gathering was completed.
- GIS maps are completed and under review.
- Text being drafted.

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- Oyster Creek LDCs were revised and TMDL calculations are now being revised. TSD is being updated (**revised anticipate resubmit June 18, 2019**) and **TMDL on June 18, 2019**.
- Source contribution/reduction estimates are under review for the WPP elements.

Task 8 Support of Texas Stream Team Programs

TST training was planned for Basin 11 on May 11 at Brazosport College – event has been rescheduled to September.

Thanks,

Steve

Steven Johnston
Senior Planner
Community & Environmental Department | Houston-Galveston Area Council
3555 Timmons, Suite 120 Houston, TX 77027 | www.h-gac.com
832.681.2579 | 713.627.3200 | fax: 713.993.4503
steven.johnston@h-gac.com
<http://h-gac.com/community/water/tmdl/big/default.aspx>

Johnston, Steven

From: Johnston, Steven
Sent: Wednesday, June 19, 2019 3:50 PM
To: 'Jazmyn Milford'
Cc: Jason Leifester (Jason.leifester@tceq.texas.gov); Chris Loft
Subject: FY 19 WO #4 Weekly Report (June 10 - June 14) and PR#3
Attachments: PR3_18Jun2019.pdf; IMG_20190613_1304522.jpg

Good Afternoon, Jazmyn – Below you will find the weekly report for Work Order #4 under 582-18-81222. I have also attached the 3rd Progress Report. Photo is of Mustang Bayou at National Oak Park in Alvin taken on June 13, 2019. Please let me know if you have any questions.

June 10th – June 14th:

Task 1 Project Administration

- ***Anticipate Spend Down August 2019?:*** Yes.
- ***Is spending by categories going as expected?:*** Yes at this time.
- ***Last Invoice:*** N/A.
- ***Original Budget Amount:*** \$180,000
- ***Total Spent to Date: (May 31, 2019)*** \$156,442.18 ***Remaining Budget Amount:*** \$23,557.82

Task 2 Public Education and Outreach Activities

- June 13, 2019 - Basin 11 Leadership Forum, Alvin Community College (Nolan Ryan Center) 10:00 AM-12:00 PM. Twelve local government and permit holders were in attendance, including representatives from Galveston and Brazoria County and three cities: Lake Jackson, Clute, and Hillcrest Village. H-GAC provided a high-level presentation on Basin 11 water quality and watershed-based planning efforts. A facilitated discussion followed centering on plans currently being developed and future efforts to implement and how a regional group like the Forum might assist in those efforts.
- June 13, 2019 – Chocolate Bayou CC and public meeting was held at the Alvin Public Library from 4-6 PM. Four stakeholders, including a reporter from The Facts, were present. H-GAC provided a presentation covering background information on water quality in Chocolate Bayou, changes to the TSD and TMDL document, and an update on the Chocolate Bayou I-Plan.
- June 12, 2019 Green Infrastructure workshop in Pearland. Registration open - <https://agriflife.org/gift/>. Staff provided a presentation at the workshop.

Task 3 Quality Assurance

- No updates.

Task 4 TSD for Halls Bayou Tidal

- Staff resubmitted TSD on Friday, May 10, 2019.

Task 5 TMDL Support for Chocolate Bayou Adoption

- TMDL document and TSD were revised and documents submitted to the TCEQ PM.
- Chocolate Bayou stakeholder meeting was held June 13, 2019. Attendees reviewed progress on documents for the Chocolate Bayou Adoption process.

Task 6 Watershed Characterization Report for Mustang Bayou

- Text being drafted.

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- Oyster Creek LDCs were revised and TMDL calculations are now being revised. TSD is being updated (**revised anticipate resubmit week of June 18, 2019) and TMDL week of June 18, 2019.**
- Source contribution/reduction estimates are finalized for the WPP elements. Drafting WPP elements. **Anticipate the WPP elements in early July.** Will incorporate the management measure prioritization questionnaire given on May 23, 2019 to the Oyster Creek CC members.

Task 8 Support of Texas Stream Team Programs

TST training was planned for Basin 11 on May 11 at Brazosport College – event has been rescheduled to September.

Thanks,

Steve

Steven Johnston
Senior Planner
Community & Environmental Department | Houston-Galveston Area Council
3555 Timmons, Suite 120 Houston, TX 77027 | www.h-gac.com
832.681.2579 | 713.627.3200 | fax: 713.993.4503
steven.johnston@h-gac.com
<http://h-gac.com/community/water/tmdl/big/default.aspx>

Johnston, Steven

From: Johnston, Steven
Sent: Saturday, June 22, 2019 2:54 PM
To: 'Jazmyn Milford'
Cc: Jason Leifester (Jason.leifester@tceq.texas.gov); Chris Loft
Subject: FY 19 WO #4 Weekly Report (June 17 - June 21)
Attachments: Oyster_TMDL_ver1.docx

Good Afternoon, Jazmyn – Below you will find the weekly report for Work Order #4 under 582-18-81222. I have also attached the first draft of the Oyster Creek TMDL. Please let me know if you have any questions.

June 17th – June 21st:

Task 1 Project Administration

- **Anticipate Spend Down August 2019?:** Yes.
- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$180,000
- **Total Spent to Date: (May 31, 2019) \$156,442.18 Remaining Budget Amount: \$23,557.82**
- Submitted 3rd Progress Report on June 19, 2019.

Task 2 Public Education and Outreach Activities

- None held or scheduled.

Task 3 Quality Assurance

- No updates.

Task 4 TSD for Halls Bayou Tidal

- Staff resubmitted TSD on Friday, May 10, 2019.

Task 5 TMDL Support for Chocolate Bayou Adoption

- Draft Chocolate Bayou I-Plan was submitted on 6/21/2019 under WO#1.

Task 6 Watershed Characterization Report for Mustang Bayou

- Text being drafted. **Anticipate delivery on July 9, 2019.**

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- Oyster Creek LDCs were revised and TMDL calculations are now being revised. TSD is being updated (**revised anticipate resubmit week of June 18, 2019) and TMDL week of June 18, 2019.**
- Source contribution/reduction estimates are finalized for the WPP elements. Drafting WPP elements. **Anticipate the WPP elements in early July.** Will incorporate the management measure prioritization questionnaire given on May 23, 2019 to the Oyster Creek CC members.

Task 8 Support of Texas Stream Team Programs

TST training was planned for Basin 11 on May 11 at Brazosport College – event has been rescheduled to September.

Thanks,

Steve

Steven Johnston
Senior Planner
Community & Environmental Department | Houston-Galveston Area Council
3555 Timmons, Suite 120 Houston, TX 77027 | www.h-gac.com
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steven.johnston@h-gac.com
<http://h-gac.com/community/water/tmdl/big/default.aspx>

Johnston, Steven

From: Johnston, Steven
Sent: Sunday, July 7, 2019 5:28 PM
To: 'Jazmyn Milford'
Cc: Jason Leifester (Jason.leifester@tceq.texas.gov); Chris Loft
Subject: FY 19 WO #4 Weekly Report (June 24 - June 28) and (July 1 - July 5)

Good Afternoon, Jazmyn – Below you will find the weekly report for Work Order #4 under 582-18-81222. Please let me know if you have any questions.

June 24th – June 28th:

Task 1 Project Administration

- **Anticipate Spend Down August 2019?:** Yes.
- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$180,000
- **Total Spent to Date: (May 31, 2019)** \$156,442.18 **Remaining Budget Amount:** \$23,557.82

Task 2 Public Education and Outreach Activities

- None held or scheduled.

Task 3 Quality Assurance

- No updates.

Task 4 TSD for Halls Bayou Tidal

- Staff resubmitted TSD on Friday, May 10, 2019.

Task 5 TMDL Support for Chocolate Bayou Adoption

- Draft Chocolate Bayou I-Plan was submitted on 6/21/2019 under WO#1.

Task 6 Watershed Characterization Report for Mustang Bayou

- Text being drafted. **Anticipate delivery on July 9, 2019.**

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- Draft Oyster Creek TMDL was submitted week of June 18, 2019.
- Source contribution/reduction estimates are finalized for the WPP elements. Drafting WPP elements. **Anticipate the WPP elements in early July.** Will incorporate the management measure prioritization questionnaire given on May 23, 2019 to the Oyster Creek CC members.

Task 8 Support of Texas Stream Team Programs

TST training planned for Basin 11 on May 11 at Brazosport College – event has been rescheduled to September.

July 1st – July 5th:

Task 1 Project Administration

- **Anticipate Spend Down August 2019?:** Yes.
- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$180,000
- **Total Spent to Date: (May 31, 2019)** \$156,442.18 **Remaining Budget Amount:** \$23,557.82

Task 2 Public Education and Outreach Activities

- None held or scheduled.

Task 3 Quality Assurance

- No updates.

Task 4 TSD for Halls Bayou Tidal

- Staff resubmitted TSD on Friday, May 10, 2019.

Task 5 TMDL Support for Chocolate Bayou Adoption

- Draft Chocolate Bayou I-Plan was submitted on 6/21/2019 under WO#1.

Task 6 Watershed Characterization Report for Mustang Bayou

- Draft report has been completed and is under review. Document will be delivered the week of July 8th.

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- Draft Oyster Creek TMDL was submitted week of June 18, 2019.
- Source contribution/reduction estimates are finalized for the WPP elements. Drafting WPP elements. **Anticipate the WPP elements in early July.** Will incorporate the management measure prioritization questionnaire given on May 23, 2019 to the Oyster Creek CC members.

Task 8 Support of Texas Stream Team Programs

TST training planned for Basin 11 on May 11 at Brazosport College – event has been rescheduled to September.

Thanks,

Steve

Steven Johnston
Senior Planner
Community & Environmental Department | Houston-Galveston Area Council
3555 Timmons, Suite 120 Houston, TX 77027 | www.h-gac.com
832.681.2579 | 713.627.3200 | fax: 713.993.4503
steven.johnston@h-gac.com
<http://h-gac.com/community/water/tmdl/big/default.aspx>

Search H-GAC

Search

San Jacinto-Brazos Coastal Basin Bacteria Reduction Project

The Houston-Galveston Area Council is developing a partnership with local governments and community organizations in the San Jacinto-Brazos Coastal Basin to better understand the sources of bacteria and develop cost-effective voluntary solutions.

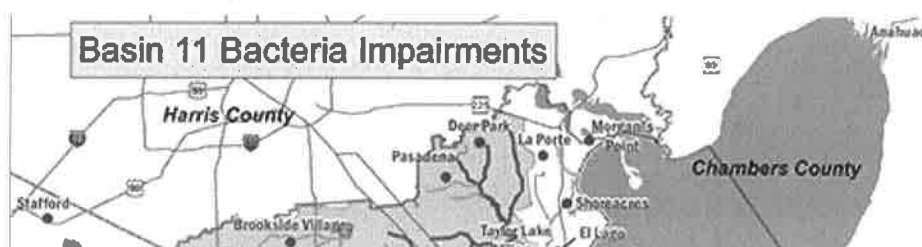
Watershed Characteristics

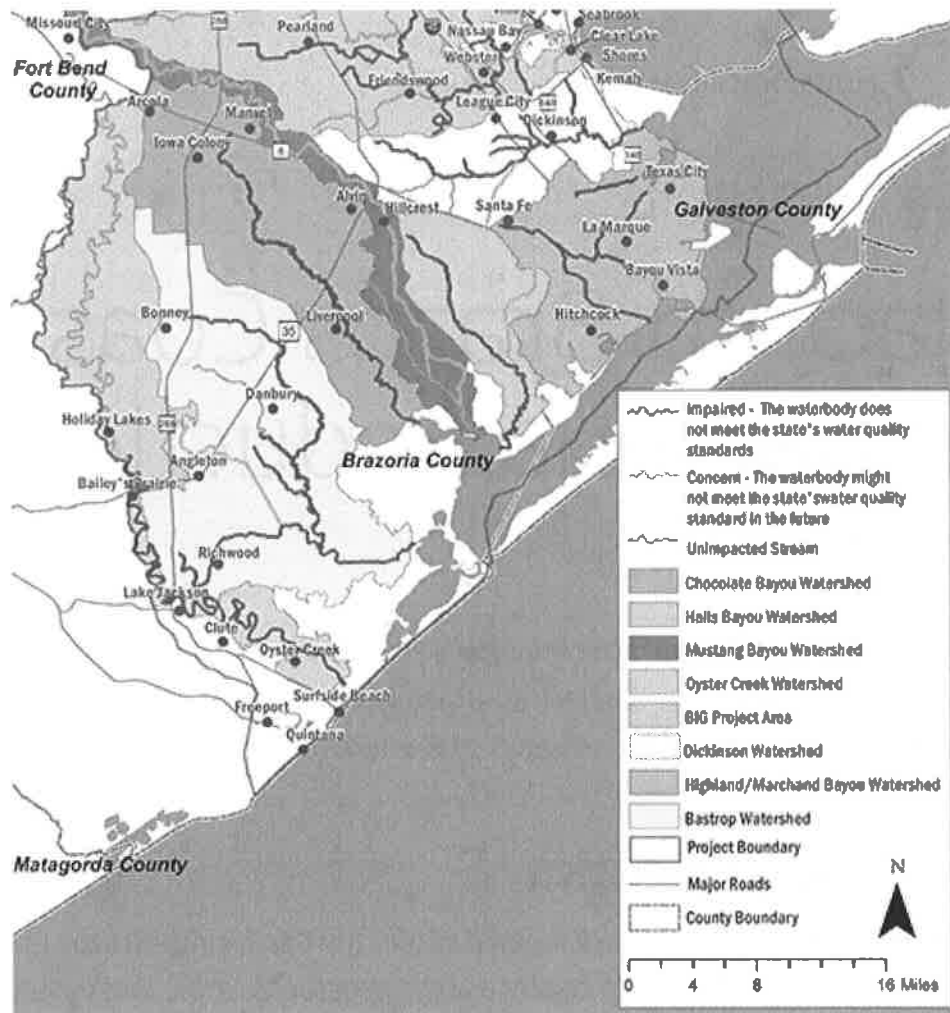
The streams addressed by this project are located within the San Jacinto-Brazos Coastal Basin, referred to as Basin 11. The Basin covers a large geographic area, and includes all or a portion of 50 cities, villages, and census-designated places and four counties: Brazoria, Fort Bend, Galveston and Harris.

About the Project

This will be a multi-year process to identify, plan, and address bacteria impairments across the basin in coordination with local stakeholders. The entire basin will be reviewed, with the each watershed addressed individually based on water quality data and stakeholder feedback. Watersheds with common issues may be grouped together for implementation efforts to encourage collaboration between stakeholders.

Executive Summary





Click on the image above for a full size version.

Characterization Report

Download Basin Characterization Reports for the San Jacinto-Brazos Coastal Basin for Indicator Bacteria.

[Download Year One's Report](#)

[Download Year Two's Report](#)

Get Involved - Be A Part of the Conversation

The input of local stakeholders will be crucial to this plan's success. Here's how you can help.

Delve into the data driving the creation of the bacteria reduction plans, attend a Coordination Committee meeting.

Oyster Creek

Meeting 1

[Presentation \(November 8, 2018\)](#)

Meeting 2

[Presentation \(January 29, 2019\)](#)

Meeting 3

[Presentation \(March 12, 2019\)](#)

Meeting 4

Thursday, May 23

3 to 5 p.m.

[Brazoria County Public Library](#)

[401 E. Cedar St., Angleton](#)

Chocolate Bayou

Meeting 1

[Presentation \(December 6, 2016\)](#)

Meeting 2

[Presentation \(August 10, 2017\)](#)

Meeting 3

[Presentation \(November 14, 2017\)](#)

Meeting 4

Chocolate Bayou Coordination Committee Meeting

[Presentation \(January 10, 2018\)](#)

Meeting 5

Thursday, June 13, 2019

4 to 6 p.m.

Brazoria County Public Library

105 S Gordon St., Alvin

Work Group Meetings

- Nonpoint Source Work Group (March 28, 2018)
- Outreach Work Group (April 5, 2018)
- Point Source Work Group (April 5, 2018)

Please email Steven Johnston at Steven.Johnston@h-gac.com for more information.

Attend the Leadership Forum 

Twice a year, local elected officials and community leaders will come together to discuss the progress made within the basin and provide crucial feedback on the bacteria reduction plans being developed.

Participate in an Established Bacteria Reduction Plan 

Several plans to address bacteria reduction are ongoing in Dickinson Bayou, Highland Bayou, Clear Creek, Armand Bayou, and Bastrop Bayou.

Bacteria Implementation Group

Bastrop Bayou

Dickinson Bayou

Galveston Bay

Highland Bayou

Total Maximum Daily Loads and Implementation Plans (TMDL)

TMDL Frequently Asked Questions

Brazos-Colorado Coastal Basin Bacteria Reduction Project

East and West Forks of the San Jacinto River TMDL and Implementation Plan

Houston Ship Channel and Galveston Bay TMDL and Implementation Plan

San Jacinto-Brazos Coastal Basin Bacteria Reduction Project

Upper Oyster Creek TMDL and Implementation Plan

Contact

Steven Johnston

Senior Planner

(832)-681-2579

steven.johnston@h-gac.com

TMDL Study Resources

[TMDL Frequently Asked Questions](#)

H-GAC News & Events

There are no news items at this time.

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**San Jacinto – Brazos Coastal Basin:
Public Outreach Report**

Leadership Forum Meeting 1

June 13, 2019

TABLE OF CONTENTS

I. OVERVIEW	2
II. PURPOSE	2
III. APPROACH	3
IV. NOTIFICATION	3
V. MATERIALS	3
VI. MEETING SYNOPSIS	3
VII. NEXT MEETING	5

DRAFT



I. OVERVIEW

Per Umbrella Contract 582-18-81222-04, the Texas Commission on Environmental Quality (TCEQ) requested Public Outreach support from the Houston-Galveston Area Council (H-GAC) for Basin 11, with activities for all elements of Public Outreach including, but not necessarily limited to:

- Identifying and Reserving Facilities for Meetings and / or Events;
- Providing a Facilitator for Any Meetings (As Needed);
- Providing Support for Organizing and Advertising Meetings and / or Events;
- Distribution and Posting of Meeting Agenda(s);
- Preparation of Meeting and / or Event Summaries;
- Preparation of Printed or Other Presentation Materials in Support of a Meeting and / or Event;
- Use of the H-GAC Website for Posting Meeting and / or Event Information; and
- Any Other Necessary Support Activities.

On June 13, 2019 (Leadership Forum Meeting #1), H-GAC conducted a meeting to review watershed planning efforts in the Basin 11 watershed. This meeting specifically targeted elected officials, local governments and wastewater permit holders.

II. PURPOSE

The water bodies included in this analysis are all within Basin 11, which originates in Fort Bend and Harris Counties, transverses Harris, Brazoria and Galveston Counties before entering the Gulf of Mexico by way of Galveston Bay.

The Purpose of this Leadership Forum was to discuss the following:

1. Review Basin 11 water quality,
2. Discuss water quality planning efforts,
3. Review opportunities for input and potential roles, and
4. Consider basin needs and how H-GAC can help.



III. APPROACH and NOTIFICATION

H-GAC used its extensive list of elected and local government officials as the beginning point to building the Forum's stakeholder list. H-GAC compiled a list of wastewater permit holders and their addresses. H-GAC sent direct mail to over 300 stakeholders on the list announcing the meeting. H-GAC then followed up the letters with direct phone calls, targeting those stakeholders within current watershed planning projects.

IV. MATERIALS

The following materials were made available for the meeting:

1. Sign-In Sheet(s)
2. Meeting Presentation
3. Watershed Plans
4. Water Quality Success Stories
5. Other water quality outreach materials

V. MEETING SYNOPSIS

Location

Nolan Ryan Center
Alvin Community College
2925 S. Hwy 35
Alvin, TX 77511

When

Thursday, June 13, 2019
10 AM – 12 PM



Attendees

NAME	ORGANIZATION REPRESENTED	ASSUMED COUNTY?
Michael Shannon	Galveston County	Galveston
Debbie Webb	City of Lake Jackson	Brazoria
Neisha Pander	Alvin Community College	Brazoria
Tom Wilson	Mayor, Hillcrest Village	Brazoria
Michael McCabe	Ineos Chocolate Bayou	Brazoria
Kelli Smith	Brazoria County Pct. 1	Brazoria
Michelle Rice	HC Manvel	Brazoria
Jaimie Tobien	HC Manvel	Brazoria
Lee Hendricks	Wood	Brazoria
Stacy L. Adams	Brazoria County Commissioner	Brazoria
Lloyd Cox	Citizen	Brazoria
John W. Wilkinson	City of Clute	Brazoria

To view the sign-in sheet in its entirety, please see Attachment A.

Meeting Summary

Mr. Jeff Taebel from H-GAC provided opening remarks and asked for introductions. Ms. Andrea Tantillo from H-GAC reviewed the meeting agenda and set the meetings goals. Mr. Steven Johnston from H-GAC provided a presentation that provided a review of Basin 11 water quality impairments, presented watershed-based planning initiatives in the basin, including the efforts that have begun in Chocolate Bayou, Oyster Creek, Halls Bayou and Mustang Bayou. Mr. Johnston also reviewed implementation management measures that are used typically to address bacteria impairments. Ms. Tantillo then facilitated a discussion on what the Leadership Forum could do to support watershed-based planning in the four counties that make up Basin 11 and asked attendees what that thought they could get out of participating in future meetings. The group particularly discussed how to address failing onsite sewage facilities. Participants left the impression that future Forums could be a benefit for the area.

VI. NEXT MEETING

To Be Determined.

Working Together to Protect Our Waterways


Basin 11 Leadership Forum

June 13, 2019
Steven Johnston & Andrea Tantillo



Agenda

- 10:00 – 10:05 Welcome – Opening Remarks
- 10:05 – 10:35 Review Basin 11 Project Area
- 10:35 – 11:25 Group Housekeeping
- 11:25 – 11:45 Implementation Activities
- 11:45 – 12:00 Wrap Up and Next Steps
- 12:00 Adjourn



Why Are We Here?

The Purpose of the Leadership Forum:

- ✓ Receive Updates & Provide Input
- ✓ Collaboration on Implementation Activities



H-GAC Water Quality Monitoring



www.h-gac.com/go/wrim



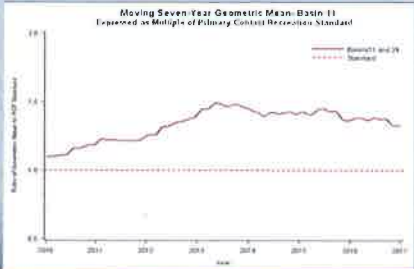

Water Quality in Basin 11

Most of the bayous and streams in the Basin 11 have high fecal bacteria levels.




Indicator Bacteria Trends

Moving Seven-Year Geometric Mean: Basin 11
(Expressed as Multiple of Primary Control Recreation Standard)

Possible Bacteria Sources

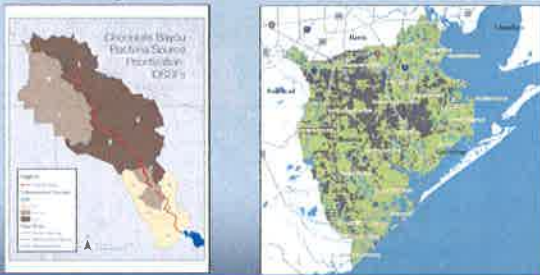
- Domestic pets (dogs, cats)
- Wastewater infrastructure
- Wildlife (deer, bird, raccoon, etc.)
- Concentrated Animal Feeding Operation
- Feral Hogs
- Onsite Sewage Treatment
- Agriculture/Pasture



Source Contributions



Septic System Measures



Potential Ag Source Measures



Feral Hog Source Measures



Wastewater Measures




Types of Watershed-based Plans

Total Maximum Daily Load / Implementation Plans

- ▶ Mostly Voluntary
- ▶ Single Pollutant
- ▶ Mostly Urban Watersheds
- ▶ Short Time-Frame
- ▶ Permittees can be ahead of the curve

Watershed Protection Plans

- ❖ Voluntary
- ❖ Typically Address multiple concerns
- ❖ Mostly Rural Watersheds
- ❖ Longer Time-Frame
- ❖ Not typically used by State Permit Process
- ❖ 319 Funding Source



Watershed-based Plans




Composition of Leadership Forum

<ul style="list-style-type: none"> • Cities <ul style="list-style-type: none"> • Elected Officials • Designated Staff 	<ul style="list-style-type: none"> • Counties <ul style="list-style-type: none"> • Elected Officials • Designated Staff 	<ul style="list-style-type: none"> • Permittees
---	---	--





Defining Our Goals

Tell me what you want to get out of the Basin 11 Leadership Forum.



Implementation Activities

What current or ongoing activities are happening in your communities?



Available H-GAC Resources



www.h-gac.com/interactive-web-applications



www.coastalcommunities.tx.com

H-GAC 2018 Setting Tables • Planning for Tomorrow 




Steven Johnson
832.681.2579
Steven.Johnson@h-gac.com

Aydesa Landillo
832.681.2507
Aydesa.Landillo@h-gac.com






**San Jacinto – Brazos Coastal Basin:
Public Outreach Report**

Coordination Committee Meeting 2

June 13, 2019

TABLE OF CONTENTS

I.	OVERVIEW	2
II.	PURPOSE	2
III.	APPROACH	3
IV.	NOTIFICATION	3
V.	MATERIALS	3
VI.	MEETING SYNOPSIS	3
VII.	NEXT MEETING	5

DRAFT



I. **OVERVIEW**

Per Umbrella Contract 582-18-81222-04, the Texas Commission on Environmental Quality (TCEQ) requested Public Outreach support from the Houston-Galveston Area Council (H-GAC) for Basin 11, with activities for all elements of Public Outreach including, but not necessarily limited to:

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- Distribution and Posting of Meeting Agenda(s);
- Preparation of Meeting and / or Event Summaries;
- Preparation of Printed or Other Presentation Materials in Support of a Meeting and / or Event;
- Use of the H-GAC Website for Posting Meeting and / or Event Information; and
- Any Other Necessary Support Activities.

On June 13, 2019 (Coordination Committee Meeting #2), H-GAC conducted a Chocolate Bayou committee meeting to review the Chocolate Bayou water quality data, revisions to the Chocolate Bayou Technical Support Document (TSD) and draft TMDL, and the latest developments and information on the Chocolate Bayou Implementation Plan (I-Plan).

II. **PURPOSE**

The water bodies included in this analysis are all within Basin 11, which originates in Fort Bend and Harris Counties, transverses Harris, Brazoria and Galveston Counties before entering the Gulf of Mexico by way of Galveston Bay.

The Purpose of this committee meeting was to discuss the following:

1. Review Chocolate Bayou water quality,
2. Discuss revisions to the TSD and TMDL Document, and
3. Present development of the Chocolate Bayou I-Plan.



III. **APPROACH and NOTIFICATION**

A list of stakeholders and interested parties was generated based on a survey initiated in FY 2016. The list has been augmented following over the course of several years due to hosting public and watershed specific meetings. Identified Chocolate Bayou stakeholders were contacted directly via e-mail and phone to notify them of the planned coordination meeting. Announcement was placed on the H-GAC website. Additional meeting details; and meeting reminders were sent to the identified list of stakeholders.

IV. **MATERIALS**

The following materials were made available for the meeting:

1. Sign-In Sheet(s)
2. Meeting Presentation
3. TSD
4. Priority Source Management Map Set

V. **MEETING SYNOPSIS**

Location
Brazoria County Public Library
105 South Gordon St.
Alvin TX

When
Thursday, June 13, 2019
4 PM – 6 PM



Attendees

NAME	ORGANIZATION REPRESENTED	ASSUMED COUNTY?
Christian Rines	GBEP	Regional
Valerie Lara	EHRA	Regional
Lisa Brady	Alvin ISD	Brazoria
Courtney Blackann	The Facts	Brazoria

To view the sign-in sheet in its entirety, please see Attachment A.

Meeting Summary

Mr. Steven Johnston from H-GAC provided a presentation that included an agenda, reviewed of the Chocolate Bayou water quality and information contained in the Chocolate Bayou TSD and draft TMDL. Mr. Johnston reviewed the revisions that were made to the load duration curves and TMDL calculations due to changes to the hydrologic boundary and efforts to naturalize the flow. He provided additional background information as a member of the Facts was present. A bacteria source priority map set was handed out to discuss best management practices and efforts to best direct those practices to specific areas of the watershed. Mr. Johnston reviewed how the priority maps and management measure will fit into the larger Chocolate Bayou I-Plan. Mr. Johnston wrapped up the meeting by reviewing the anticipated timeline to complete the I-Plan and what happens after it is delivered to the TCEQ, particularly where the group will have an opportunity to review the document.

VI. NEXT MEETING

To Be Determined.



AGENDA

- Welcome/Introductions
- TMDL Update
- Implementation Plan Update
- Implementation
- Adjourn

Why Are We Here?

Basin 11 Bacteria Impairments

Chocolate Bayou TMDL Update

- Technical Support Document Revised
 - Submitted in 2017
 - Resubmitted to TCEQ for review May 2019
- TMDL Document Revised
 - Submitted in 2018
 - Resubmitted to TCEQ for review May 2019

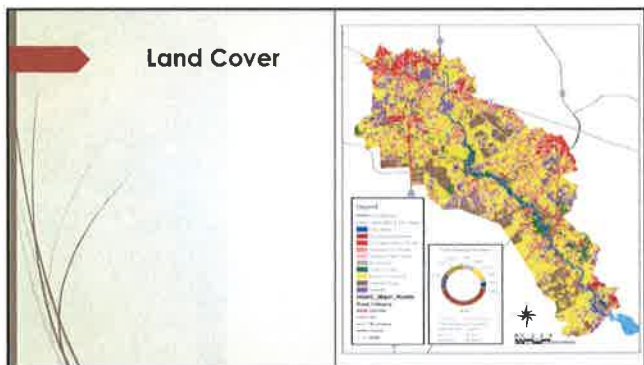
Technical Support Document for Total Maximum Daily Loads for Indicator Bacteria in the Chocolate Bayou Watershed
Segments: 1107 and 1108

May 2019

Watershed Boundary Adjustment

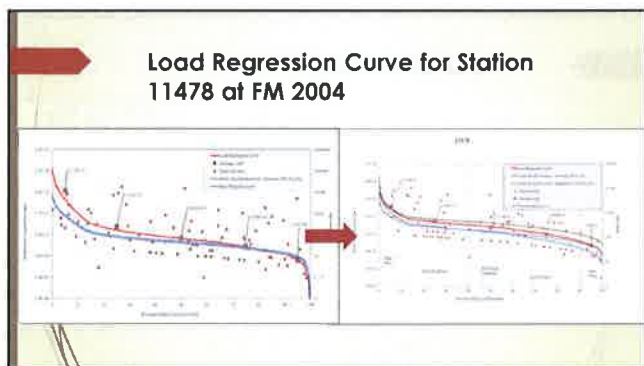
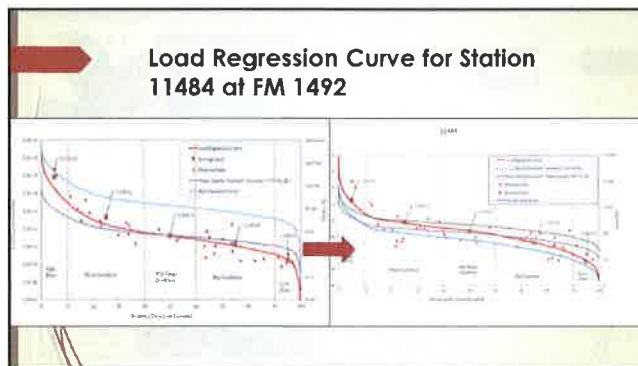
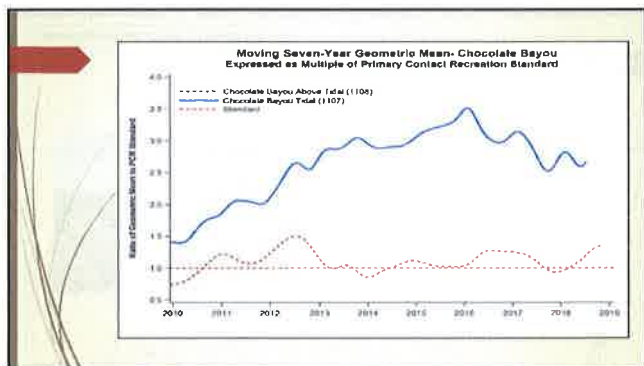
"Naturalized Flow"

- External Sources
 - Brazos River
 - Trinity River
- Internal Sources
 - Irrigation
 - Industrial



Population Adjustment

Segment	Y2015	Y2040	Change	Segment	Y2016	Y2040	Change
1107	1,278	686	-46.31%	1107	939	504	-46.31%
1108	29,552	88,231	198.56%	1108	41,963	125,284	198.56%




Load Reductions

Flow Condition	Recorded Mean (CUU/100mi)	Required Reduction	Geometric Mean (CUU/100mi)	Required Reduction
High Flow	113.25	49.29%	283.96	90.14%
Mid Range	73.14	33.42%	292.15	58.87%
Mid Range	62.92	44.27%	171.48	24.57%
Low Flow	32.72	33.41%	76.27	0.00%
Low Flow	37.9	7.61%	27.54	0.00%

Revised TMDL

Watershed	Segment	TMDL (lb/day 5-day avg)	WLA (lb/day 5-day avg)	WLA _{max} (lb/day 5-day avg)	WLA _{min} (lb/day 5-day avg)	LA (lb/day 5-day avg)
Chocolate Bayou Total	1107	124.00	11.00	44.20	33.80	819.75
Chocolate Bayou Above Road	1108	1,334.00	66.00	340.40	57.96	1,067.60

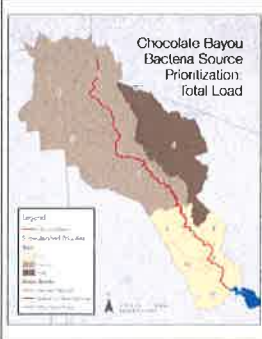
AV	Collection (lb/day 5-day avg)	TMDL (lb/day 5-day avg)	WLA (lb/day 5-day avg)	WLA _{max} (lb/day 5-day avg)	WLA _{min} (lb/day 5-day avg)	LA (lb/day 5-day avg)
1107 (lb)	38	90.60	20.32	47.89	44.21	799.29
1108 (lb)	126	1,300.00	78.28	186.53	113.73	1,147.81

- ### Chocolate Bayou I-Plan Update
- Summary of TMDL/TSD
 - Prioritizes Sources
 - Identifies Management Measures
 - Identifies Implementing Partners
 - Identifies Potential Funding Sources
- 

Priorities and Subwatersheds

- Divided 1107 and 1108 watersheds into Subwatersheds
- Weighted each Fecal Bacteria Sources within subwatershed
- Calculate source load

ID	Source Name
1	2740-HB
2	1117-HB
3	6012-HB
4	2740-HB
5	8002-HB
6	138-HB
7	1002-HB
8	1202-HB
9	4002-HB
10	5002-HB
11	1102-HB



- ### Management Measures
- Management Measure 1: Support Rural Land Management Initiatives
 - Management Measure 2: Promote Safe OSSF Use and Maintenance
 - Management Measure 3: Improve Wastewater Facility and Collection System Function
 - Management Measure 4: Address Fecal Deposition of Fecal Populations
 - Management Measure 5: Address Fecal Deposition of Dog Waste
 - Management Measure 6: Support Urban Stormwater Management

Management Measure 1: Support Rural Land Management Initiatives



Management Measure 2: Promote Safe OSSF Use and Maintenance



Management Measure 3: Improve Wastewater Facility and Collection System Function



Management Measure 4: Address Fecal Deposition of Feral Populations



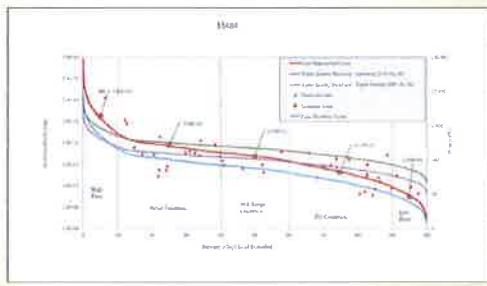
Management Measure 5: Address Fecal Deposition of Dog Waste



Management Measure 6: Support Urban Stormwater Management



Source Reductions



Source Reductions

Load Reduction by Source and Assessment DOP								
Assessment DOP	CS	CSIS	CSIS	Street Clean	Roofs	Seal	Leaf Bags	Other
1106_05	920.21	3,321.24	916.43	17.68	86.67	1,66.29	0.62	10,655.69
1107_01	143.71	1,478.47	345.74	6.72	36.88	44.44	0.00	495.14
Total	1,063.93	4,800.71	1,262.17	24.40	123.54	210.73	0.62	11,150.83

Source Reductions

Representative Unit to Address Impairments				
Business Source	Representative Unit	Equivalent to Unit Daily Load	1787-01	1788-01
OSSE	1 Failing OSSE	3.70E+09	39	249
SSO	1 SSO	4.93E+09	1	1
Cattle	1 Cattle	2.70E+09	548	1452
Sheep/Goats	1 Sheep/Goat	2.10E+08	1651	4364
Horse	1 Horse	9.00E+09	1	2
Deer	1 Deer	1.75E+08	211	552
Feral Hogs	1 Feral Hog	4.45E+09	15	37
Dogs	1 Dog	2.50E+09	198	4242

NEXT STEPS

- Draft I-Plan Stakeholder Review (July 1-31, 2019)
- Begin Agency Review (August 15, 2019)
- CC Review Revision (Nov. 2019)



Future Work

- Halls Bayou
- Mustang Bayou



Wynny Johnson
638.601.2579
Wynny.Johnson@tpac.com



Native Plants



Rain Gardens



Stormwater Wetlands

Managing Our Stormwater
From Gutter to Stream

June 12, 2019
1 - 4 pm

A workshop on natural techniques to clean and conserve stormwater for humans and wildlife, at any scale



Delores Fenwick Nature Center
5750 Magnolia Parkway
Pearland, TX 77584



These events are funded in part by a Texas Coastal Management Program Grant approved by the Texas Land Commissioner pursuant to National Oceanic and Atmospheric Administration Award No. NA18NOS4190153.

Agenda

Speaker Contacts

- 12:30 pm Registration
- 1:00 - 1:10 Welcome
- 1:10 - 2:00 **Charriss York** on capturing and cleansing stormwater runoff at homes, businesses and in the neighborhood.
- 2:00 - 2:20 **Steven Johnston** on implementing and incentivizing Low Impact Development
- 2:00 - 2:35 Break
- 2:35 - 3:15 **Christie Taylor** on changing the way we design flood control basins, using stormwater wetlands.
- 3:15 - 4:00 **John Jacob** on large scale restoration of natural areas to promote water quality benefits.
- 4:00pm Concluding Remarks

Green Infrastructure for Texas (GIFT)
GIFT.tamu.edu

Charriss York, cyork@tamu.edu
Green Stormwater Infrastructure
Texas A&M Agrilife Extension Program Specialist

Christie Taylor, cctaylor@tamu.edu
Stormwater Wetlands
Texas A&M Agrilife Extension Program Specialist

John Jacob, jjacob@tamu.edu
Texas A&M Agrilife Extension, Professor and Specialist

Houston Galveston Area Council
www.h-gac.com

Steven Johnston, Steven.Johnston@h-gac.com
Senior Planner

Notes



The Texas Community Watershed Partners is a part of the Texas A&M Agrilife Extension Service
For more information, visit us at: TCWP.tamu.edu

BARRIERS & SOLUTIONS

PERCEPTUAL BARRIERS

<p>BARRIER Cost Prohibitive Difficult to Maintain Clay & Mosquito Myth</p>		<p>SOLUTION Demonstrate Costs & Added Value LID Maintenance Agreements Information Sharing & Education</p>
--	---	--

REGULATORY & TECHNICAL BARRIERS

<p>BARRIER Curb & Gutter Excessive Impervious Cover Maintenance</p>		<p>SOLUTION Flexible Curb And Gutter Requirement Efficient Site Design Technical Training</p>
---	---	---



BARRIERS & SOLUTIONS

REGULATORY BARRIERS

- Identify Barriers In Ordinances & Development Code
- Recommend Code/process Modifications
- Maintenance Agreements
- Ordinance Adoption


TECHNICAL BARRIERS

- Installation Checklists
- Maintenance Schedules
- Implementation Workshop

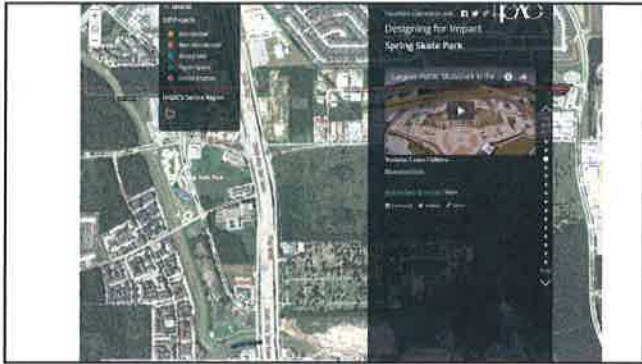


ONLINE INTERACTIVE MAP

- LOCAL EXAMPLES
- TYPE OF LID APPLICATION
- PROJECT PICTURES
- GOALS & METHODS
- LOCATION







Houston-Galveston Area Council

August 15, 2019

Jazmyn Milford (MC 203)
TMDL Project Manager
Water Quality Division
Texas Commission on Environmental Quality
12100 Park 35 Circle, Bldg. F
Austin, Texas 78753

RE: August 2019 Progress Report for Contract 582-18-81222, Work Order 4, Basin 11.

Dear Ms. Milford:

Enclosed is one (1) copy of the FY 2019 5th Progress Report for Contract No. 582-18-81222-4. It covers all deliverable/task activities for the project period July 1, 2019 through July 31, 2019. Financial Statements, HUB report and Voucher will be submitted separately.

Included in this Report are:

1. One copy of the progress report for July 1, 2019 thru July 31, 2019.
2. Copies of meeting summaries and other pertinent materials from project related meetings.

We hope you find the quarterly report satisfactory. Any comments you have will be appreciated. If you have any questions, please contact me by phone (713-993-4549) or E-mail (todd.running@h-gac.com).

Sincerely,

Todd Running
Water Resources Program Manager
Community & Environmental Planning Dept.

CC Jason Leifester
Chis Loft

TR/srj
Enclosures

**TMDL Program
FY 2019 Progress Report 5**

Date: August 15, 2019

Time Period Covered: 07/01/2019 – 07/31/2019

Name of Project: Basin Approach to Address Bacterial Impairments in the San Jacinto – Brazos Coastal Basin (Basin 11)

Contract No./Work Order 582-18-81222-04

TASK #1. PROJECT ADMINISTRATION

Deliverable(s)	Due Date	Status
List all deliverables under the task described above	List the due dates for each deliverable	If the deliverable has been completed, enter the date submitted to the TCEQ. If the deliverable has not been completed, briefly describe the status of each deliverable.
Quarterly/Monthly Progress Report	August 15, 2019	Monthly report for Work Order submitted electronically on August 15, 2019
Invoice	August 15, 2019	Invoices will be submitted under another cover.
Project Updates	Weekly	Provided for July 2019.

Work Performed This Period – detail all activities for this task and briefly describe the progress on each deliverable:

Work performed for this task during this period included writing and assembling the monthly report. Copies of weekly emails are attached.

TASK #2. PUBLIC EDUCATION AND OUTREACH

Deliverable(s)	Due Date	Status
List all deliverables under the task described above	List the due dates for each deliverable	If the deliverable has been completed, enter the date submitted to the TCEQ. If the deliverable has not been completed, briefly describe the status of each deliverable.
Development of meeting materials (Task 2.1)	Invitation letters, emails, press releases, and informational materials announcing meeting/event.	Oyster Creek CC meetings were held on March 12 th and May 23 rd . Meeting announcements, press releases, and emails were prepared within a month prior to meeting. Materials shared with TCEQ prior to the meeting. Leadership Forum #1 and Chocolate Bayou CC #2 were held on June 13, 2019. Meeting announcements, press releases, and emails were prepared within a month prior to meeting. Materials shared with TCEQ prior to the meeting.
Host two or more watershed stakeholder meetings (Task 2.2)	As needed	<ul style="list-style-type: none"> • A public meeting was held on November 14, 2018. • Oyster Creek stakeholder meeting was held on January 29, 2019. • Oyster Creek CC meeting was held on March 12, 2019. • Oyster Creek CC meeting was held on May 23, 2019 • Basin 11 Leadership Forum was held June 13, 2019 • Chocolate Bayou CC meeting was held June 13, 2019.
Copies of agendas and presentations for meetings (Task 2.3)	Due 2 weeks before distribution	No meetings held this month.
Summary of meetings (Task 2.4)	Within 2 weeks after meetings	No meetings held this month.
List of general stakeholders (Task 2.5)	Maintain and update as appropriate. Provide to TCEQ when requested.	Maintained and updated as needed.
Facilitate delivery of Education programs (Task 2.6)	One or more during work order period.	July 18, 2019 – hosted a table at the Olin Corporation-take you child to work day event held at Brazosport College, Lake Jackson. Picture of table-top education included with report.

		Education on pet waste, LID and general water quality (OSSF) was provided to area residents. July 18, 2019 – Presented to the Bailey’s Prairie town council on Oyster Creek, water quality concerns and opportunities to address poor water quality. Scheduled two events in September (Flyer Attached): <ul style="list-style-type: none"> September 14, 2019 – rescheduled (May 2019) Texas Stream Team training September 26, 201 – OSSF Homeowner Education
Public participation/outreach summaries (Task 2.7)	With PRs	Provided in discussion below.

Work Performed This Period – detail all activities for this task and briefly describe the progress on each deliverable:

No meetings were held during this reporting period. Staff did participate in two outreach efforts which are detailed below:

- July 18, 2019 – Staff was invited to host a table at the Olin Corporation take your child to work day event held at the Brazosport College, Lake Jackson. Over 50 families attended the event and were encouraged to visit all table-top vendors. H-GAC provided water quality education that included watershed information and pet waste, low impact practices, fats, oils and grease, and trash education.
- July 18, 2019 – Initial outreach to local communities was beneficial in that the town of Bailey’s Prairie asked to H-GAC to attend their town council meeting to provide a water quality update and discuss opportunities. The town was receptive to the information and a future conference call revealed interest in developing an OSSF program for the town. The town is completely on OSSFs and believe there are numerous failing systems.

TASK #3 DEVELOP OR UPDATE QAPPs FOR ACQUIRED DATA AND MONITORING DATA

Deliverable(s)	Due Date	Status
List all deliverables under the task described above	List the due dates for each deliverable	If the deliverable has been completed, enter the date submitted to the TCEQ. If the deliverable has not been completed, briefly describe the status of each deliverable.
Acquired Data QAPP Amendments (Task 3.1)	As needed.	None required.
Acquired Data QAPP Update (Task 3.2)	As needed	Annual update for FY2018 submitted to TCEQ in early September. Approval made in October.
QAPP CARs (Task 3.3)	As needed	None required.
Quality assurance audits (Task 3.4)	Will participate as needed	None required for the quarter.

Work Performed This Period

Received a copy of the QAPP update shell. The QAPP update will begin in August.

TASK #4 TECHNICAL SUPPORT DOCUMENT FOR HALLS BAYOU

Deliverable(s)	Due Date	Status
List all deliverables under the task described above	List the due dates for each deliverable	If the deliverable has been completed, enter the date submitted to the TCEQ. If the deliverable has not been completed, briefly describe the status of each deliverable.
Draft TSD for Halls Bayou (Task 4.1)	January 15, 2019	Staff completed the draft TSD and submitted to the TCEQ on 1/15/2019.
Final TSD for Halls Bayou	Within two weeks of receipt of TCEQ comments on draft.	Received comments on 2/28/2019. Document resubmitted in May 2019.

Work Performed This Period – detail all activities for this task and briefly describe the progress on each deliverable:

H-GAC completed revisions to the draft Halls Bayou TSD. The document was resubmitted to TCEQ in May.

TASK #5 TMDL SUPPORT FOR CHOCOLATE BAYOU ADOPTION

Deliverable(s)	Due Date	Status
List all deliverables under the task described above	List the due dates for each deliverable	Final progress report and evaluation submitted to TCEQ
TMDL support (Task 5.1)	As needed	TSD and TMDL document were revised and submitted in May 2019.

Work Performed This Period – detail all activities for this task and briefly describe the progress on each deliverable:

The TMDL document and revised TSD were resubmitted in May.

TASK #6 WATERSHED CHARACTERIZATION REPROT FOR MUSTANG BAYOU

Deliverable(s)	Due Date	Status
List all deliverables under the task described above	List the due dates for each deliverable	Final progress report and evaluation submitted to TCEQ
Draft Characterization Report (Task 6.1)	June 15, 2019	Document was submitted to TCEQ on July 31, 2019.
Final Characterization Report (Task 6.2)	Within two weeks of receipt of TCEQ comments on draft.	No progress.

Work Performed This Period – detail all activities for this task and briefly describe the progress on each deliverable:

The characterization report was completed in July. The document was submitted to the TCEQ PM on July 31, 2019.

TASK #7 TMDL AND DEVELOPMENT OF SPECIFIC KEY ELEMENTS FOR A WPP FOR OYSTER CREEK

Deliverable(s)	Due Date	Status
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List all deliverables under the task described above	List the due dates for each deliverable	Final progress report and evaluation submitted to TCEQ
Draft Oyster Creek TMDL (Task 7.1)	June 1, 2019	TMDL document was submitted on June 18, 2019 .
Oyster Creek Work Group Meetings (Task 7.2)	One to four, as needed.	Coordination committee meetings – March 12, 2019 and May 23, 2019.
Final Oyster Creek TMDL and Key Elements WPP	Two weeks after receipt of TCEQ comments.	No progress reported.

Work Performed This Period – detail all activities for this task and briefly describe the progress on each deliverable:

The draft TMDL document was submitted on June 18, 2019. The TSD was not revised at that time as a key stakeholder made H-GAC aware that the town of Oyster Creek does not drain to Oyster Creek but rather to the ICWW. H-GAC started to revise the tidal watershed to remove the town of Oyster Creek from the AU. The revision will require revisions to the LDC and TMDL and other data points – population figures, land cover, OSSFs, etc. The document will be revised in August and the TMDL document updated.

The key elements of a WPP are still being written. The document will include the revisions mentioned above.

TASK #8 SUPPORT OF TEXAS STREAM TEAM PROGRAMS

Deliverable(s)	Due Date	Status
List all deliverables under the task described above	List the due dates for each deliverable	Final progress report and evaluation submitted to TCEQ
Organize trainings and provide monitoring kits (Task 8.1)	Provide summaries with PRs	September 14, 2019 – rescheduled (May 2019) Texas Stream Team training
Target volunteer efforts (Task 8)	Provide summaries with PRs	No progress in this quarter.

Work Performed This Period – detail all activities for this task and briefly describe the progress on each deliverable:

H-GAC has scheduled a TST training event at Brazosport College on September 14, 2019.

PROJECT RELATED MEETINGS, WORKSHOPS, TRAINING OR EVENTS

- 1) Presentations:
 - a. July 18, 2019 – staff presented to the town of Bailey’s Prairie on Oyster Creek water quality and the TMDL project.
- 2) Meetings, Events and Conferences:
 - a. July 18, 2019 - Staff hosted a table at the Olin Corporation’s bring your child to work event. Staff provided water quality education.
 - b. July 31, 2019 – Staff hosted the Coastal Communities Water Quality Outreach Workgroup meeting at the Brazoria County Library in Alvin, TX. The group is working on a Fats, Oils and Grease program targeting multifamily housing. Cities participating include the Cities of Pearland and Alvin and Brazoria County.
- 3) Associated Implementation Projects and Programs
 - a. H-GAC’s OSSF SEP is continues to work in the area. Two repair/replace projects are planned for the community of Holiday Lakes on Oyster Creek.

- b. Staff are coordinating with a Coastal Communities project supported by the TCEQ 319 Program. Focus of the project is to provide stormwater outreach materials to local governments/political subdivisions in the coastal zone that do not have a MS4 permit. Work under this grant has led to coordination with Brazosport College to bring TST and OSSF training and outreach to the communities in south Brazoria County. Also, H-GAC has received local contributions from DOW and Olin companies to support this effort. This resulted in the purchase of 25 pet waste stations for Lake Jackson (15) and Brazosport College (10) for community parks. Additional funds will be spent on OSSF repair/replace and pump outs (see work with the town of Bailey's Prairie).

BRIEF DESCRIPTION OF OVERALL FINDINGS:

H-GAC completed and submitted the draft Mustang Bayou Characterization Report. In addition, staff were successfully able to provide outreach to the community of Bailey's Prairie. This town along with Holiday Lakes, sits on the banks of Oyster Creek. Both communities only use OSSF for waste treatment. Repairing failing systems will provide direct fecal bacteria reductions. The town is receptive to H-GAC providing OSSF homeowner education. Current funding levels will allow for some pump-outs to those residents that meet the income requirements. H-GAC will also seek to evaluate the systems to determine if future replacement is needed. Additionally, H-GAC will work with the town to determine if a centralized system or hook-up to a current WWTF is feasible.

Significant Problems (describe any scheduling shortfalls, detail significant problems and how these problems were resolved, etc.):

H-GAC worked to get caught up on its deliverables. As mentioned in previous reports, a revision to the Oyster Creek watershed will be needed which will require changes to current documents in review. H-GAC will work to address this soon.

Johnston, Steven

From: Johnston, Steven
Sent: Sunday, July 7, 2019 5:28 PM
To: 'Jazmyn Milford'
Cc: Jason Leifester (Jason.leifester@tceq.texas.gov); Chris Loft
Subject: FY 19 WO #4 Weekly Report (June 24 - June 28) and (July 1 - July 5)

Good Afternoon, Jazmyn – Below you will find the weekly report for Work Order #4 under 582-18-81222. Please let me know if you have any questions.

June 24th – June 28th:

Task 1 Project Administration

- **Anticipate Spend Down August 2019?:** Yes.
- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$180,000
- **Total Spent to Date: (May 31, 2019)** \$156,442.18 **Remaining Budget Amount:** \$23,557.82

Task 2 Public Education and Outreach Activities

- None held or scheduled.

Task 3 Quality Assurance

- No updates.

Task 4 TSD for Halls Bayou Tidal

- Staff resubmitted TSD on Friday, May 10, 2019.

Task 5 TMDL Support for Chocolate Bayou Adoption

- Draft Chocolate Bayou I-Plan was submitted on 6/21/2019 under WO#1.

Task 6 Watershed Characterization Report for Mustang Bayou

- Text being drafted. **Anticipate delivery on July 9, 2019.**

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- Draft Oyster Creek TMDL was submitted week of June 18, 2019.
- Source contribution/reduction estimates are finalized for the WPP elements. Drafting WPP elements. **Anticipate the WPP elements in early July.** Will incorporate the management measure prioritization questionnaire given on May 23, 2019 to the Oyster Creek CC members.

Task 8 Support of Texas Stream Team Programs

TST training planned for Basin 11 on May 11 at Brazosport College – event has been rescheduled to September.

July 1st – July 5th:

Task 1 Project Administration

- **Anticipate Spend Down August 2019?:** Yes.
- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$180,000
- **Total Spent to Date: (May 31, 2019)** \$156,442.18 **Remaining Budget Amount:** \$23,557.82

Task 2 Public Education and Outreach Activities

- None held or scheduled.

Task 3 Quality Assurance

- No updates.

Task 4 TSD for Halls Bayou Tidal

- Staff resubmitted TSD on Friday, May 10, 2019.

Task 5 TMDL Support for Chocolate Bayou Adoption

- Draft Chocolate Bayou I-Plan was submitted on 6/21/2019 under WO#1.

Task 6 Watershed Characterization Report for Mustang Bayou

- Draft report has been completed and is under review. Document will be delivered the week of July 8th.

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- Draft Oyster Creek TMDL was submitted week of June 18, 2019.
- Source contribution/reduction estimates are finalized for the WPP elements. Drafting WPP elements. **Anticipate the WPP elements in early July.** Will incorporate the management measure prioritization questionnaire given on May 23, 2019 to the Oyster Creek CC members.

Task 8 Support of Texas Stream Team Programs

TST training planned for Basin 11 on May 11 at Brazosport College – event has been rescheduled to September.

Thanks,

Steve

Steven Johnston

Senior Planner

Community & Environmental Department | Houston-Galveston Area Council

3555 Timmons, Suite 120 Houston, TX 77027 | www.h-gac.com

832.681.2579 | 713.627.3200 | fax: 713.993.4503

steven.johnston@h-gac.com

<http://h-gac.com/community/water/tmdl/big/default.aspx>

Johnston, Steven

From: Johnston, Steven
Sent: Wednesday, July 17, 2019 10:19 PM
To: 'Jazmyn Milford'
Cc: Jason Leifester (Jason.leifester@tceq.texas.gov); Chris Loft
Subject: FY 19 WO #4 Weekly Report (July 8 - July 12)
Attachments: PR4_July2019.pdf

Good evening, Jazmyn – Below you will find the weekly report for Work Order #4 under 582-18-81222. PR#4 is attached to this report. Please let me know if you have any questions.

July 8th – July 12th:

Task 1 Project Administration

- **Anticipate Spend Down August 2019?:** Yes.
- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$180,000
- **Total Spent to Date: (June 30, 2019)** \$168,524.81 **Remaining Budget Amount:** \$11,475.19

Task 2 Public Education and Outreach Activities

- July 18, 2019 - Olin Corporation Employee Event: Staff will provide environmental outreach activities to employees and their families.
- July 18, 2019 – town of Bailey’s Prairie Meeting – Staff presenting on Oyster Creek water quality.

Task 3 Quality Assurance

- Received QAPP update shell.

Task 4 TSD for Halls Bayou Tidal

- Staff resubmitted TSD on Friday, May 10, 2019.

Task 5 TMDL Support for Chocolate Bayou Adoption

- Draft Chocolate Bayou I-Plan was submitted on 6/21/2019 under WO#1.

Task 6 Watershed Characterization Report for Mustang Bayou

- Draft report has been completed and is under review. Identified some additional revisions. Anticipate delivery the week of July 22nd.

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- Draft Oyster Creek TMDL was submitted week of June 18, 2019.
- Source contribution/reduction estimates are finalized for the WPP elements. Drafting WPP elements. **Anticipate the WPP elements in July.** Will incorporate the management measure prioritization questionnaire given on May 23, 2019 to the Oyster Creek CC members.

Task 8 Support of Texas Stream Team Programs

TST training planned for Basin 11 on May 11 at Brazosport College – event has been rescheduled to September.

Thanks,

Steve

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Senior Planner
Community & Environmental Department | Houston-Galveston Area Council
3555 Timmons, Suite 120 Houston, TX 77027 | www.h-gac.com
832.681.2579 | 713.627.3200 | fax: 713.993.4503
steven.johnston@h-gac.com
<http://h-gac.com/community/water/tmdl/big/default.aspx>

Johnston, Steven

From: Johnston, Steven
Sent: Sunday, July 21, 2019 2:36 PM
To: 'Jazmyn Milford'
Cc: Jason Leifester (Jason.leifester@tceq.texas.gov); Chris Loft
Subject: FY 19 WO #4 Weekly Report (July 15 - July 19)
Attachments: IMG_20190718_0857242.jpg; CC Outreach Summer 2019 Update.pdf

Good Afternoon, Jazmyn – Below you will find the weekly report for Work Order #4 under 582-18-81222. Please let me know if you have any questions.

July 15th – July 19th:

Task 1 Project Administration

- **Anticipate Spend Down August 2019?:** Yes.
- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$180,000
- **Total Spent to Date: (June 30, 2019) \$168,524.81 Remaining Budget Amount: \$11,475.19**
- Prepared and submitted Progress Report 4 for the period of June 1, 2019 – June 30, 2019.

Task 2 Public Education and Outreach Activities

- July 18, 2019 - Olin Corporation Employee Event: Staff provided environmental outreach activities (pet wastes, Fats, Oils, Grease and Wipes, LID and trash) to employees and their families (attached photo).
- July 18, 2019 – town of Bailey's Prairie Meeting – Staff presented on Oyster Creek water quality. Staff will have a follow-up conference call with the town on Monday, July 22, 2019.
- July 31, 2019 - Fats, Oils, and Grease Multi-Family Education Project subcommittee (see flyer).
- Sept. 26 2019 and Oct. 12, 2019 – OSSF Homeowner training course at Brazosport College. H-GAC is teaming up with the college to work through their adult education program in hope of reaching more residents.

Task 3 Quality Assurance

- Received QAPP update shell.

Task 4 TSD for Halls Bayou Tidal

- Staff resubmitted TSD on Friday, May 10, 2019.

Task 5 TMDL Support for Chocolate Bayou Adoption

- Draft Chocolate Bayou I-Plan was submitted on 6/21/2019 under WO#1.

Task 6 Watershed Characterization Report for Mustang Bayou

- Draft report has been completed and is under review. Identified some additional revisions. Anticipate delivery the week of July 22nd.

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- Draft Oyster Creek TMDL was submitted week of June 18, 2019.
- Source contribution/reduction estimates are finalized for the WPP elements. Drafting WPP elements. **Anticipate the WPP elements in July.** Will incorporate the management measure prioritization questionnaire given on May 23, 2019 to the Oyster Creek CC members.

Task 8 Support of Texas Stream Team Programs

- TST training planned for Basin 11 on May 11 at Brazosport College – event has been rescheduled to September 14th.

Thanks,

Steve

Steven Johnston
Senior Planner
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steven.johnston@h-gac.com
<http://h-gac.com/community/water/tmdl/big/default.aspx>

Johnston, Steven

From: Johnston, Steven
Sent: Wednesday, July 31, 2019 5:13 PM
To: 'Jazmyn Milford'
Cc: Jason Leifester (Jason.leifester@tceq.texas.gov); Chris Loft
Subject: FY 19 WO #4 Weekly Report (July 22 - July 26)
Attachments: DRAFT_Mustang Characterization Report.docx

Good Afternoon, Jazmyn – Below you will find the weekly report for Work Order #4 under 582-18-81222. I have also attached the draft Mustang Bayou Characterization Report. Please let me know if you have any questions.

July 22nd – July 26th:

Task 1 Project Administration

- **Anticipate Spend Down August 2019?:** Yes.
- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$180,000
- **Total Spent to Date: (June 30, 2019)** \$168,524.81 **Remaining Budget Amount:** \$11,475.19.

Task 2 Public Education and Outreach Activities

- July 31, 2019 - Fats, Oils, and Grease Multi-Family Education Project subcommittee (see flyer).
- Sept. 26 2019 and Oct. 12, 2019 – OSSF Homeowner training course at Brazosport College. H-GAC is teaming up with the college to work through their adult education program in hope of reaching more residents.

Task 3 Quality Assurance

- Received QAPP update shell.

Task 4 TSD for Halls Bayou Tidal

- Staff resubmitted TSD on Friday, May 10, 2019.

Task 5 TMDL Support for Chocolate Bayou Adoption

- Draft Chocolate Bayou I-Plan was submitted on 6/21/2019 under WO#1.

Task 6 Watershed Characterization Report for Mustang Bayou

- Making final revisions. Delivery will be the week of July 29th.

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- Draft Oyster Creek TMDL was submitted week of June 18, 2019.
- Town of Oyster Creek is being removed from the watershed. Making revisions to the data and maps based on the excision.

Task 8 Support of Texas Stream Team Programs

- TST training planned for Basin 11 at Brazosport College – event has been scheduled to September 14th.

Thanks,

Steve

Steven Johnston

Senior Planner

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steven.johnston@h-gac.com

<http://h-gac.com/community/water/tmdl/big/default.aspx>

Johnston, Steven

From: Johnston, Steven
Sent: Wednesday, August 14, 2019 1:10 PM
To: Jazmyn Milford
Subject: RE: FY 19 WO #4 Weekly Report (July 29 - August 2)

The report is correct, not the statement about Mustang Bayou. Corrected below...

Good Afternoon, Jazmyn – Below you will find the weekly report for Work Order #4 under 582-18-81222. Please let me know if you have any questions.

July 29th – Aug. 2nd:

Task 1 Project Administration

- **Anticipate Spend Down August 2019?:** Yes.
- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$180,000
- **Total Spent to Date: (June 30, 2019)** \$168,524.81 **Remaining Budget Amount:** \$11,475.19.

Task 2 Public Education and Outreach Activities

- July 31, 2019 - Fats, Oils, and Grease Multi-Family Education Project subcommittee met. Group includes the cities of Pearland, Alvin, and Clute along with Brazoria County and GBEP. Eight stakeholders were present. There will be a webinar on Aug. 22nd. Planning study on apartment and multi-family homes.
- Sept. 26 2019 and Oct. 12, 2019 – OSSF Homeowner training course at Brazosport College. H-GAC is teaming up with the college to work through their adult education program in hope of reaching more residents.
- Working with Bailey's Prairie to provide OSSF homeowner training and pump-out program using local industry foundation grant. Trying to set up for late August.

Task 3 Quality Assurance

- Received QAPP update shell.

Task 4 TSD for Halls Bayou Tidal

- Staff resubmitted TSD on Friday, May 10, 2019.

Task 5 TMDL Support for Chocolate Bayou Adoption

- Draft Chocolate Bayou I-Plan was submitted on 6/21/2019 under WO#1.

Task 6 Watershed Characterization Report for Mustang Bayou

- Draft Characterization was submitted to TCEQ on 7/31/2019.

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- Draft Oyster Creek TMDL was submitted week of June 18, 2019.
- Town of Oyster Creek is being removed from the watershed. Making revisions to the data and maps based on the excision.

Task 8 Support of Texas Stream Team Programs

- TST training planned for Basin 11 at Brazosport College – event has been scheduled to September 14th.

Thanks,

Steve

Steven Johnston

Senior Planner

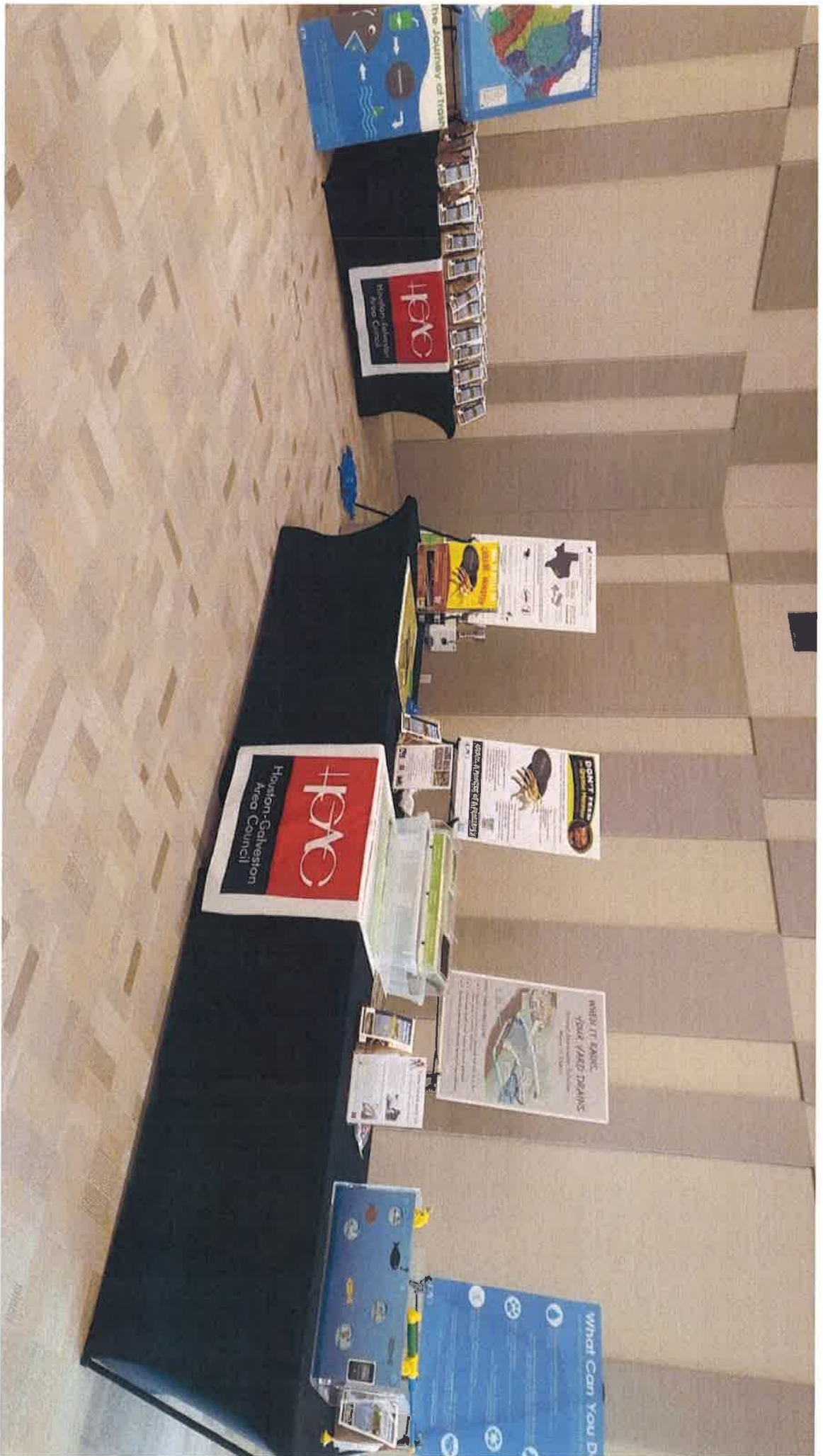
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steven.johnston@h-gac.com


<http://h-gac.com/community/water/tmdl/big/default.aspx>



Working Together to Protect Our Waterways

Bailey's Prairie

July 18, 2019
Steven Johnston



H-GAC Water Quality Monitoring



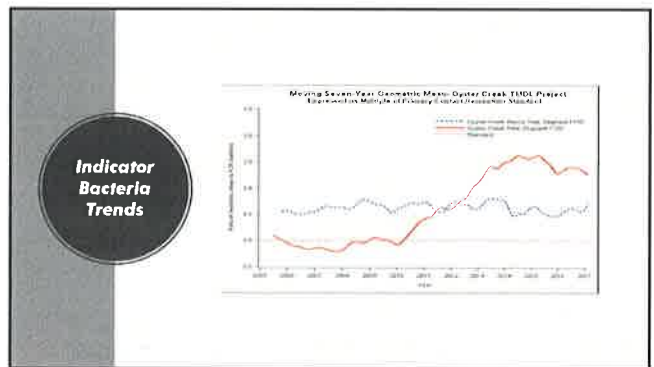
www.h-gac.com/go/wrim



Water Quality in Basin 11

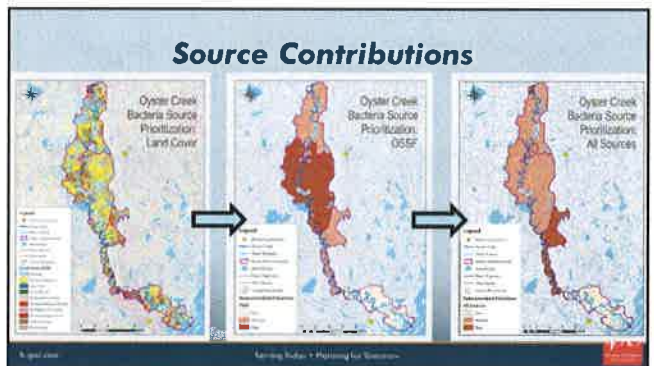
Most of the bayous and streams in the Basin 11 have high fecal bacteria levels.

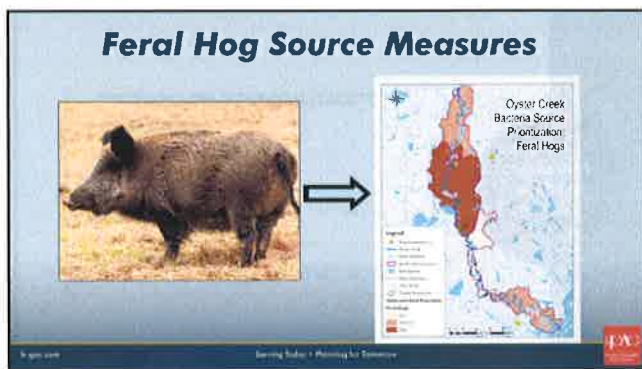
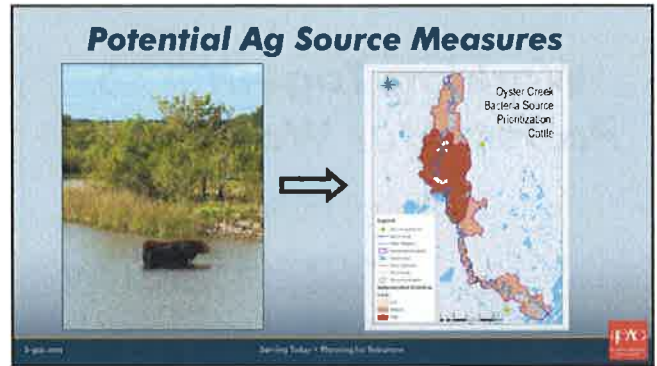
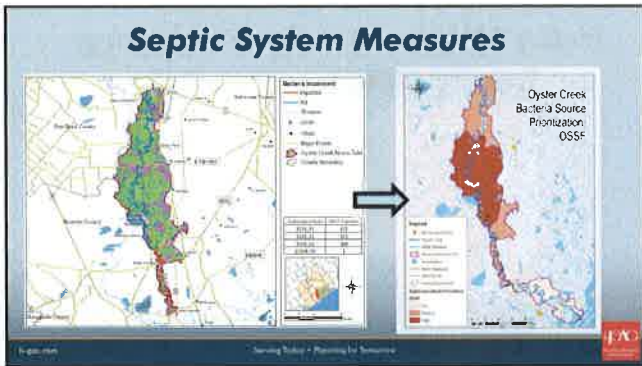





Possible Bacteria Sources

- Domestic pets (dogs, cats)
- Wastewater in infrastructure
- Wildlife (deer, bird, raccoon, etc.)
- Concentrated Animal Feeding Operation
- Feral Hogs
- Onsite Sewage Treatment
- Agriculture/Pasture



Types of Watershed-based Plans

Total Maximum Daily Load / Implementation Plans	Watershed Protection Plans
<ul style="list-style-type: none"> ▶ Mostly Voluntary ▶ Single Pollutant ▶ Mostly Urban Watersheds ▶ Short Time-Frame ▶ Permittees can be ahead of the curve 	<ul style="list-style-type: none"> ❖ Voluntary ❖ Typically Address multiple concerns ❖ Mostly Rural Watersheds ❖ Longer Time-Frame ❖ Not typically used by State Permit Process ❖ 319 Funding Source



Composition of Leadership Forum

- Cities
 - Elected Officials
 - Designated Staff
- Counties
 - Elected Officials
 - Designated Staff
- Permittees

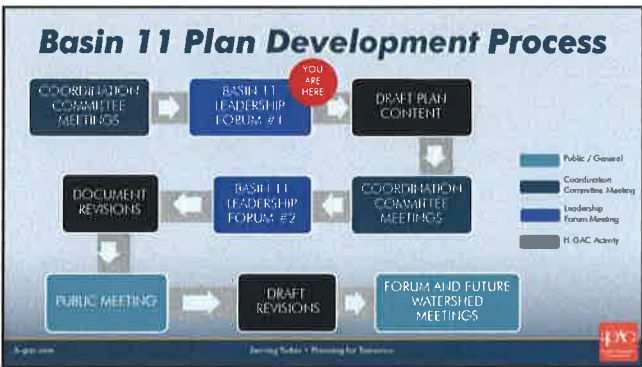
H-gac.com Serving Today • Planning for Tomorrow

Available H-GAC Resources

www.h-gac.com/interactive-web-applications

www.coastalcommunitytrust.com

H-gac.com Serving Today • Planning for Tomorrow



Sharon Johnson
832.681.2579
Sharon.Johnson@h-gac.com

Becki Pegley
832.681.2110
Becki.Pegley@h-gac.com

H-gac.com Serving Today • Planning for Tomorrow



The Houston-Galveston Area Council's (H-GAC) Coastal Communities program is designed to help small, coastal communities prevent water pollution by providing resources to identify needs, locate funding opportunities, and promote education and outreach to residents. Visit CoastalCommunitiesTX.com, email becki.begley@h-gac.com, or call 713-993-2410 to learn more.



PHARMACEUTICAL KIOSKS

For a short time, H-GAC can offer funding for law enforcement to place **MedSafe drug take-back systems** in your community. Safe disposal of unused and expired medications protectst your residents and our waterways.



PET WASTE STATIONS

H-GAC has funding available to provide **pet waste stations** for parks and public areas in your community. We also offer **leash bag dispensers and refill rolls** for your shelter or apartment complexes.



DEFEAT THE GREASE MONSTER

If you have areas of town with SSOs related to fats, oils, and grease (FOG), H-GAC can supply your residents with **cooking oil funnels** and **plate/pan scrapers** to keep FOG out of the sanitary sewer system.

COASTAL COMMUNITIES WATER QUALITY OUTREACH WORKGROUP MEETING

Join the Houston-Galveston Area Council and the Save Water Texas Coalition for a field trip to learn more about the coalition's programs and tour its brand new Water Quality Mobile Teaching Lab from **10 a.m. to noon, Thursday, August 8**, at the North Harris County Regional Water Authority, 3648 Cypress Creek Parkway, Houston. [Registration](#) is requested.

Please dress in cool, comfortable, casual clothing appropriate for outdoor weather. Parking is available but carpooling would be helpful if several folks from one organization are attending. Transportation *will not be provided* to the meeting location.

The Save Water Texas Coalition focuses include water conservation, water reuse, and water pollution education and outreach. Examples of resources include PattyPotty.com, SunflowerSuzie.com, and TexasWaterHog.com. Learn more at SaveWaterTexas.org.

WANT TO GET MORE INVOLVED?

Join our Fats, Oils, and Grease Multi-Family Education Project Subcommittee

The Coastal Communities Work Group is beginning a pilot project to work with residents of multi-family housing complexes to encourage the proper disposal of fats, oils, and grease to reduce sanitary sewer blockages, overflows, and malfunctioning septic systems. The first meeting will be at **1:30 p.m. Wednesday, July 31**, at the Alvin Library, 105 S Gordon St, Alvin. If you would like your community to be included, please contact us at waterresources@h-gac.com for more information.





Come Learn with Us

Houston-Galveston Area Council & Brazosport College

Fall Community Education Offerings

Texas Stream Team

Volunteer Water Quality Monitoring

Saturday, Sept. 14 9 am to 3 pm

In Phase I and II sessions, learn the process to sample a waterway and become part of a statewide network of volunteers providing valuable data about water quality on a monthly basis. Phase III of the training is scheduled on an individual basis at a specific waterway.



On-site Sewage System Homeowner Education

Thursday, Sept. 26 6 to 8 pm

Saturday, Oct. 12 9 to 11 am

Participants will receive an overview of the two types of systems, information on system maintenance and inspection, and details on available resources to maintain, repair and replace aging systems. This course is designed to instruct and educate homeowners on the basics of septic system and onsite sewage facility (OSSF) maintenance and visual inspection. It does not provide for or allow homeowners to inspect their own aerobic system in place of a maintenance contract.





Houston-Galveston Area Council

September 14, 2019

Jazmyn Milford (MC 203)
TMDL Project Manager
Water Quality Division
Texas Commission on Environmental Quality
12100 Park 35 Circle, Bldg. F
Austin, Texas 78753

RE: September 2019 Progress Report for Contract 582-18-81222, Work Order 4, Basin 11.

Dear Ms. Milford:

Enclosed is one (1) copy of the FY 2019 6th Progress Report for Contract No. 582-18-81222-4. It covers all deliverable/task activities for the project period August 1, 2019 through August 31, 2019. Financial Statements, HUB report and Voucher will be submitted separately.

Included in this Report are:

1. One copy of the progress report for August 1, 2019 thru August 31, 2019.
2. Copies of meeting summaries and other pertinent materials from project related meetings.

We hope you find the quarterly report satisfactory. Any comments you have will be appreciated. If you have any questions, please contact me by phone (713-993-4549) or E-mail (todd.running@h-gac.com).

Sincerely,

Todd Running
Water Resources Program Manager
Community & Environmental Planning Dept.

CC Jason Leifester
Chis Loft

TR/srj
Enclosures

**TMDL Program
FY 2019 Progress Report 6**

Date: September 14, 2019

Time Period Covered: 08/01/2019 – 08/31/2019

Name of Project: Basin Approach to Address Bacterial Impairments in the San Jacinto – Brazos Coastal Basin (Basin 11)

Contract No./Work Order 582-18-81222-04

TASK #1. PROJECT ADMINISTRATION

Deliverable(s)	Due Date	Status
List all deliverables under the task described above	List the due dates for each deliverable	If the deliverable has been completed, enter the date submitted to the TCEQ. If the deliverable has not been completed, briefly describe the status of each deliverable.
Quarterly/Monthly Progress Report	September 15, 2019	Monthly report for Work Order submitted electronically on September 14, 2019
Invoice	September 15, 2019	Invoices will be submitted under another cover.
Project Updates	Weekly	Provided for August 2019.

Work Performed This Period – detail all activities for this task and briefly describe the progress on each deliverable:

Work performed for this task during this period included writing and assembling the monthly report. Copies of weekly emails are attached.

TASK #2. PUBLIC EDUCATION AND OUTREACH

Deliverable(s)	Due Date	Status
List all deliverables under the task described above	List the due dates for each deliverable	If the deliverable has been completed, enter the date submitted to the TCEQ. If the deliverable has not been completed, briefly describe the status of each deliverable.
Development of meeting materials (Task 2.1)	Invitation letters, emails, press releases, and informational materials announcing meeting/event.	Oyster Creek CC meetings were held on March 12 th and May 23 rd . Meeting announcements, press releases, and emails were prepared within a month prior to meeting. Materials shared with TCEQ prior to the meeting. Leadership Forum #1 and Chocolate Bayou CC #2 were held on June 13, 2019. Meeting announcements, press releases, and emails were prepared within a month prior to meeting. Materials shared with TCEQ prior to the meeting.
Host two or more watershed stakeholder meetings (Task 2.2)	As needed	<ul style="list-style-type: none"> • A public meeting was held on November 14, 2018. • Oyster Creek stakeholder meeting was held on January 29, 2019. • Oyster Creek CC meeting was held on March 12, 2019. • Oyster Creek CC meeting was held on May 23, 2019 • Basin 11 Leadership Forum was held June 13, 2019 • Chocolate Bayou CC meeting was held June 13, 2019.
Copies of agendas and presentations for meetings (Task 2.3)	Due 2 weeks before distribution	No meetings held this month.
Summary of meetings (Task 2.4)	Within 2 weeks after meetings	No meetings held this month.
List of general stakeholders (Task 2.5)	Maintain and update as appropriate. Provide to TCEQ when requested.	Maintained and updated as needed.
Facilitate delivery of Education programs (Task 2.6)	One or more during work order period.	Scheduled two events in September: <ul style="list-style-type: none"> • September 14, 2019 – rescheduled (May 2019) Texas Stream Team training • September 26, 2019 – OSSF Homeowner Education

Public participation/outreach summaries (Task 2.7)	With PRs	Provided in discussion below.
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Work Performed This Period – detail all activities for this task and briefly describe the progress on each deliverable:

No meetings were held during this reporting period. Staff coordinated with work under the 319 Coastal Communities grant to develop an OSSF program for the town of Bailey’s Prairie. The town is 100% on onsite wastewater and is situated right on Oyster Creek in the impaired AU, 1110_01. The OSSF homeowner workshop will be on October 3, 2019. Additionally, staff is coordinating with our OSSF SEP program to provided pump-outs and OSSF assessments to the town for residents that qualify. Staff are also working to address solid waste concerns.

TASK #3 DEVELOP OR UPDATE QAPPs FOR ACQUIRED DATA AND MONITORING DATA

Deliverable(s)	Due Date	Status
List all deliverables under the task described above	List the due dates for each deliverable	If the deliverable has been completed, enter the date submitted to the TCEQ. If the deliverable has not been completed, briefly describe the status of each deliverable.
Acquired Data QAPP Amendments (Task 3.1)	As needed.	None required.
Acquired Data QAPP Update (Task 3.2)	As needed	Annual update for FY2018 submitted to TCEQ in early September. Approval made in October.
QAPP CARs (Task 3.3)	As needed	None required.
Quality assurance audits (Task 3.4)	Will participate as needed	None required for the quarter.

Work Performed This Period

Staff began work on the QAPP update for FY20.

TASK #4 TECHNICAL SUPPORT DOCUMENT FOR HALLS BAYOU

Deliverable(s)	Due Date	Status
List all deliverables under the task described above	List the due dates for each deliverable	If the deliverable has been completed, enter the date submitted to the TCEQ. If the deliverable has not been completed, briefly describe the status of each deliverable.
Draft TSD for Halls Bayou (Task 4.1)	January 15, 2019	Staff completed the draft TSD and submitted to the TCEQ on 1/15/2019.
Final TSD for Halls Bayou	Within two weeks of receipt of TCEQ comments on draft.	Received comments on 2/28/2019. Document resubmitted in May 2019.

Work Performed This Period – detail all activities for this task and briefly describe the progress on each deliverable:

H-GAC completed revisions to the draft Halls Bayou TSD. The document was resubmitted to TCEQ in May. No additional work was performed on this document in August.

TASK #5 TMDL SUPPORT FOR CHOCOLATE BAYOU ADOPTION

Deliverable(s)	Due Date	Status
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List all deliverables under the task described above	List the due dates for each deliverable	Final progress report and evaluation submitted to TCEQ
TMDL support (Task 5.1)	As needed	TSD and TMDL document were revised and submitted in May 2019. Comments to the Caney Creek (Basin 13) TMDL and TSD were received. Staff in August, revised the Chocolate Bayou TSD and TMDL to adjust for the comments.

Work Performed This Period – detail all activities for this task and briefly describe the progress on each deliverable:

H-GAC submitted the TMDL and TSD revisions in May. Staff received comments to the Caney Creek TMDL and TSD in late July. Based on those comments, staff revised the Chocolate Bayou TMDL and TSD in August.

TASK #6 WATERSHED CHARACTERIZATION REPROT FOR MUSTANG BAYOU

Deliverable(s)	Due Date	Status
List all deliverables under the task described above	List the due dates for each deliverable	Final progress report and evaluation submitted to TCEQ
Draft Characterization Report (Task 6.1)	June 15, 2019	Document was submitted to TCEQ on July 31, 2019.
Final Characterization Report (Task 6.2)	Within two weeks of receipt of TCEQ comments on draft.	No progress.

Work Performed This Period – detail all activities for this task and briefly describe the progress on each deliverable:

The characterization report was completed in July. The document was submitted to the TCEQ PM on July 31, 2019. No additional work was performed on this document in August.

TASK #7 TMDL AND DEVELOPMENT OF SPECIFIC KEY ELEMENTS FOR A WPP FOR OYSTER CREEK

Deliverable(s)	Due Date	Status
List all deliverables under the task described above	List the due dates for each deliverable	Final progress report and evaluation submitted to TCEQ
Draft Oyster Creek TMDL (Task 7.1)	June 1, 2019	TMDL document was submitted on June 18, 2019 .
Oyster Creek Work Group Meetings (Task 7.2)	One to four, as needed.	Coordination committee meetings – March 12, 2019 and May 23, 2019.
Final Oyster Creek TMDL and Key Elements WPP	Two weeks after receipt of TCEQ comments.	No progress reported.

Work Performed This Period – detail all activities for this task and briefly describe the progress on each deliverable:

Staff began to revise the TMDL and TSD to remove the city and its watershed from Oyster Creek, 1109_01, as the city stated that their runoff does not go to the creek but rather to an off channel that takes the flow to the

Intercoastal Waterway. The document should be ready in September. This will also include the three elements to a WPP.

TASK #8 SUPPORT OF TEXAS STREAM TEAM PROGRAMS

Deliverable(s)	Due Date	Status
List all deliverables under the task described above	List the due dates for each deliverable	Final progress report and evaluation submitted to TCEQ
Organize trainings and provide monitoring kits (Task 8.1)	Provide summaries with PRs	September 14, 2019 – rescheduled (May 2019) Texas Stream Team training
Target volunteer efforts (Task 8)	Provide summaries with PRs	No progress in this quarter.

Work Performed This Period – detail all activities for this task and briefly describe the progress on each deliverable:

H-GAC has scheduled a TST training event at Brazosport College on September 14, 2019.

PROJECT RELATED MEETINGS, WORKSHOPS, TRAINING OR EVENTS

- 1) Presentations:
 - a. No project related presentations given during the reporting period.
- 2) Meetings, Events and Conferences:
 - a. No related meetings/events/or conferences held during the reporting period.
- 3) Associated Implementation Projects and Programs
 - a. H-GAC’s OSSF SEP is continues to work in the area. Two repair/replace projects are planned for the community of Holiday Lakes on Oyster Creek.
 - b. Staff are coordinating with a Coastal Communities project supported by the TCEQ 319 Program. Focus of the project is to provide stormwater outreach materials to local governments/political subdivisions in the coastal zone that do not have a MS4 permit. Work under this grant has led to coordination with Brazosport College to bring TST and OSSF training and outreach to the communities in south Brazoria County. Also, H-GAC has received local contributions from DOW and Olin companies to support this effort. This resulted in the purchase of 25 pet waste stations for Lake Jackson (15) and Brazosport College (10) for community parks. Additional funds will be spent on OSSF repair/replace and pump outs (see work with the town of Bailey’s Prairie.

BRIEF DESCRIPTION OF OVERALL FINDINGS:

Staff were successfully able to provide outreach to the community of Bailey’s Prairie. This town along with Holiday Lakes, sits on the banks of Oyster Creek. Both communities only use OSSF for waste treatment. Repairing failing systems will provide direct fecal bacteria reductions. The town is receptive to H-GAC providing OSSF homeowner education and a workshop will be held on Oct. 3, 2019. Current funding levels will allow for some pump-outs to those residents that meet the income requirements. H-GAC will also seek to evaluate the systems to determine if future replacement is needed. Additionally, H-GAC will work with the town to determine if a centralized system or hook-up to a current WWTF is feasible.

Staff revised the Chocolate Bayou TMDL and TSD to address comments that were made for the Caney Creek TMDL and TSD. Both documents were resubmitted in August. Staff also completed revisions to the Oyster Creek maps to remove the town of Oyster Creek. Other watershed related analysis was performed.

Significant Problems (describe any scheduling shortfalls, detail significant problems and how these problems were resolved, etc.):

Staff began to revise the Oyster Creek watershed, completed adjustment to the map set and data analysis. H-GAC will complete revisions in September.

Johnston, Steven

From: Johnston, Steven
Sent: Wednesday, August 14, 2019 1:10 PM
To: Jazmyn Milford
Subject: RE: FY 19 WO #4 Weekly Report (July 29 - August 2)

The report is correct, not the statement about Mustang Bayou. Corrected below...

Good Afternoon, Jazmyn – Below you will find the weekly report for Work Order #4 under 582-18-81222. Please let me know if you have any questions.

July 29th – Aug. 2nd:

Task 1 Project Administration

- ***Anticipate Spend Down August 2019?:*** Yes.
- ***Is spending by categories going as expected?:*** Yes at this time.
- ***Last Invoice:*** N/A.
- ***Original Budget Amount:*** \$180,000
- ***Total Spent to Date: (June 30, 2019)*** \$168,524.81 ***Remaining Budget Amount:*** \$11,475.19.

Task 2 Public Education and Outreach Activities

- July 31, 2019 - Fats, Oils, and Grease Multi-Family Education Project subcommittee met. Group includes the cities of Pearland, Alvin, and Clute along with Brazoria County and GBEP. Eight stakeholders were present. There will be a webinar on Aug. 22nd. Planning study on apartment and multi-family homes.
- Sept. 26 2019 and Oct. 12, 2019 – OSSF Homeowner training course at Brazosport College. H-GAC is teaming up with the college to work through their adult education program in hope of reaching more residents.
- Working with Bailey's Prairie to provide OSSF homeowner training and pump-out program using local industry foundation grant. Trying to set up for late August.

Task 3 Quality Assurance

- Received QAPP update shell.

Task 4 TSD for Halls Bayou Tidal

- Staff resubmitted TSD on Friday, May 10, 2019.

Task 5 TMDL Support for Chocolate Bayou Adoption

- Draft Chocolate Bayou I-Plan was submitted on 6/21/2019 under WO#1.

Task 6 Watershed Characterization Report for Mustang Bayou

- Draft Characterization was submitted to TCEQ on 7/31/2019.

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- Draft Oyster Creek TMDL was submitted week of June 18, 2019.
- Town of Oyster Creek is being removed from the watershed. Making revisions to the data and maps based on the excision.

Task 8 Support of Texas Stream Team Programs

- TST training planned for Basin 11 at Brazosport College – event has been scheduled to September 14th.

Thanks,

Steve

Steven Johnston
Senior Planner
Community & Environmental Department | Houston-Galveston Area Council
3555 Timmons, Suite 120 Houston, TX 77027 | www.h-gac.com
832.681.2579 | 713.627.3200 | fax: 713.993.4503
steven.johnston@h-gac.com
<http://h-gac.com/community/water/tmdl/big/default.aspx>

Johnston, Steven

From: Johnston, Steven
Sent: Thursday, August 15, 2019 4:51 PM
To: 'Jazmyn Milford'
Cc: Jason Leifester (Jason.leifester@tceq.texas.gov); Chris Loft
Subject: FY 19 WO #4 Weekly Report (Aug 5 - Aug 9)
Attachments: PR5_15Aug2019.pdf

Good Afternoon, Jazmyn – Below you will find the weekly report for Work Order #4 under 582-18-81222. I have also attached PR5 for your review. Please let me know if you have any questions.

Aug. 5th – Aug. 9th:

Task 1 Project Administration

- **Anticipate Spend Down August 2019?:** Yes.
- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$180,000
- **Total Spent to Date: (July 31, 2019)** \$174,788.65 **Remaining Budget Amount:** \$5,211.35.

Task 2 Public Education and Outreach Activities

- Sept. 26 2019 and Oct. 12, 2019 – OSSF Homeowner training course at Brazosport College. H-GAC is teaming up with the college to work through their adult education program in hope of reaching more residents.
- Working with Bailey's Prairie to provide OSSF homeowner training and pump-out program using local industry foundation grant. Looking at September/October dates.

Task 3 Quality Assurance

- Received QAPP update shell.

Task 4 TSD for Halls Bayou Tidal

- Staff resubmitted TSD on Friday, May 10, 2019.

Task 5 TMDL Support for Chocolate Bayou Adoption

- Draft Chocolate Bayou I-Plan was submitted on 6/21/2019 under WO#1.
- Revising TSD/TMDL to address comments received to the Caney Creek TSD/TMDL.

Task 6 Watershed Characterization Report for Mustang Bayou

- Draft Characterization was submitted to TCEQ on 7/31/2019.

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- Draft Oyster Creek TMDL was submitted week of June 18, 2019.
- Town of Oyster Creek is being removed from the watershed. Revisions to the data and maps based on the excision are complete. Will begin to revise TSD/TMDL with the new information.
- Drafting the WPP elements now that the maps/data have been revised.

Task 8 Support of Texas Stream Team Programs

- TST training planned for Basin 11 at Brazosport College – event has been scheduled to September 14th.

Thanks,

Steve

Steven Johnston
Senior Planner
Community & Environmental Department | Houston-Galveston Area Council
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832.681.2579 | 713.627.3200 | fax: 713.993.4503
steven.johnston@h-gac.com
<http://h-gac.com/community/water/tmdl/big/default.aspx>

Johnston, Steven

From: Johnston, Steven
Sent: Wednesday, August 21, 2019 7:22 PM
To: 'Jazmyn Milford'
Cc: Jason Leifester (Jason.leifester@tceq.texas.gov); Chris Loft
Subject: FY 19 WO #4 Weekly Report (Aug 12 - Aug 16)
Attachments: ChocolateBayou_TMDL_20Aug2019.docx; TSD_Chocolate_Bayou_20Aug2019.docx

Good Evening, Jazmyn – Below you will find the weekly report for Work Order #4 under 582-18-81222. I have also the Chocolate Bayou TSD and TMDL document for your review. Please let me know if you have any questions.

Aug. 12th – Aug. 16th:

Task 1 Project Administration – Received executed 2020 WOs, started working on Work Plans.

- **Anticipate Spend Down August 2019?:** Yes.
- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$180,000
- **Total Spent to Date: (July 31, 2019)** \$174,788.65 **Remaining Budget Amount:** \$5,211.35.

Task 2 Public Education and Outreach Activities

- Sept. 26, 2019 and Oct. 12, 2019 – OSSF Homeowner training course at Brazosport College. H-GAC is teaming up with the college to work through their adult education program in hope of reaching more residents.
- August 16, 2019: Held a call with Bailey's Prairie to discuss coordination of OSSF outreach. Discuss potential times and possible dates. H-GAC will be working with Bailey's Prairie to provide OSSF homeowner training and pump-out program using local industry foundation grant. Looking at September/October dates.

Task 3 Quality Assurance

- Received QAPP update shell.

Task 4 TSD for Halls Bayou Tidal

- Staff resubmitted TSD on Friday, May 10, 2019.

Task 5 TMDL Support for Chocolate Bayou Adoption

- Draft Chocolate Bayou I-Plan was submitted on 6/21/2019 under WO#1.
- Revising TSD/TMDL to address comments received to the Caney Creek TSD/TMDL.

Task 6 Watershed Characterization Report for Mustang Bayou

- Draft Characterization was submitted to TCEQ on 7/31/2019.

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- Draft Oyster Creek TMDL was submitted week of June 18, 2019.
- Town of Oyster Creek is being removed from the watershed. Revisions to the data and maps based on the excision are complete. Will begin to revise TSD/TMDL with the new information.
- Drafting the WPP elements now that the maps/data have been revised.

Task 8 Support of Texas Stream Team Programs

- TST training planned for Basin 11 at Brazosport College – event has been scheduled to September 14th.

Thanks,

Steve

Steven Johnston
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steven.johnston@h-gac.com
<http://h-gac.com/community/water/tmdl/big/default.aspx>

Johnston, Steven

From: Johnston, Steven
Sent: Friday, August 23, 2019 3:15 PM
To: 'Jazmyn Milford'
Cc: Jason Leifester (Jason.leifester@tceq.texas.gov); Chris Loft
Subject: RE: FY 19 WO #4 Weekly Report (Aug 12 - Aug 16)

Good Afternoon, Jazmyn – Below you will find the weekly report for Work Order #4 under 582-18-81222. Please let me know if you have any questions.

Aug. 19th – Aug. 23rd:

Task 1 Project Administration – Received executed 2020 WO, started working on Work Plan and budget.

- **Anticipate Spend Down August 2019?:** Yes.
- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$180,000
- **Total Spent to Date: (July 31, 2019)** \$174,788.65 **Remaining Budget Amount:** \$5,211.35.

Task 2 Public Education and Outreach Activities

- Sept. 26, 2019 and Oct. 12, 2019 – OSSF Homeowner training course at Brazosport College. H-GAC is teaming up with the college to work through their adult education program in hope of reaching more residents.
- August 16, 2019: Held a call with Bailey's Prairie to discuss coordination of OSSF outreach. Discuss potential times and possible dates. H-GAC will be working with Bailey's Prairie to provide OSSF homeowner training and pump-out program using local industry foundation grant. Looking at September/October dates.

Task 3 Quality Assurance

- Received QAPP update shell.

Task 4 TSD for Halls Bayou Tidal

- Staff resubmitted TSD on Friday, May 10, 2019.

Task 5 TMDL Support for Chocolate Bayou Adoption

- Draft Chocolate Bayou I-Plan was submitted on 6/21/2019 under WO#1.
- Revised and resubmitted TSD/TMDL.

Task 6 Watershed Characterization Report for Mustang Bayou

- Draft Characterization was submitted to TCEQ on 7/31/2019.

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- Draft Oyster Creek TMDL was submitted week of June 18, 2019.
- Town of Oyster Creek is being removed from the watershed. Revisions to the data and maps based on the excision are complete. Will begin to revise TSD/TMDL with the new information.
- Drafting the WPP elements.

Task 8 Support of Texas Stream Team Programs

- TST training planned for Basin 11 at Brazosport College – event has been scheduled to September 14th.

Thanks,

Steve

Steven Johnston
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steven.johnston@h-gac.com
<http://h-gac.com/community/water/tmdl/big/default.aspx>

Johnston, Steven

From: Johnston, Steven
Sent: Wednesday, September 11, 2019 6:22 PM
To: 'Jazmyn Milford'
Cc: Jason Leifester (Jason.leifester@tceq.texas.gov); Chris Loft
Subject: FY 19 WO #4 Weekly Report (Aug 26 - Aug 30)

Good Afternoon, Jazmyn – Below you will find the weekly report for Work Order #4 under 582-18-81222. Any outstanding deliverables will be included with the weekly reports to 582-19-95487-01. Please let me know if you have any questions.

Aug. 26th – Aug. 30th:

Task 1 Project Administration – Received executed 2020 WO. Submitted Work Plan and budget.

- **Anticipate Spend Down August 2019?:** Yes.
- **Is spending by categories going as expected?:** Yes at this time.
- **Last Invoice:** N/A.
- **Original Budget Amount:** \$180,000
- **Total Spent to Date: (July 31, 2019)** \$174,788.65 **Remaining Budget Amount:** \$5,211.35.

Task 2 Public Education and Outreach Activities

- Sept. 26, 2019 and Oct. 12, 2019 – OSSF Homeowner training course at Brazosport College. H-GAC is teaming up with the college to work through their adult education program in hope of reaching more residents.
- October 3, 2019: OSSF homeowner maintenance workshop. H-GAC is working with Bailey's Prairie to provide OSSF homeowner training and pump-out program using local industry foundation grant.
- H-GAC is working with the cities of Pearland, Alvin and Bay City on multi-family property FOG program pilot project as part of the Coastal Community 319 grant.

Task 3 Quality Assurance

- Received QAPP update shell.

Task 4 TSD for Halls Bayou Tidal

- Staff resubmitted TSD on Friday, May 10, 2019.

Task 5 TMDL Support for Chocolate Bayou Adoption

- Draft Chocolate Bayou I-Plan was submitted on 6/21/2019 under WO#1.
- Revised and resubmitted TSD/TMDL based on comments received to the Caney Creek TSD/TMDL.

Task 6 Watershed Characterization Report for Mustang Bayou

- Draft Characterization was submitted to TCEQ on 7/31/2019.

Task 7 TMDL and Development of Specific Key Elements for a WPP for Oyster Creek

- Draft Oyster Creek TMDL was submitted week of June 18, 2019.
- Town of Oyster Creek is being removed from the watershed. Revisions to the data and maps based on the excision are complete. Will begin to revise TSD/TMDL with the new information. Anticipate delivery the third week of September.
- Drafting the WPP elements. Anticipate delivery the third week of September.

Task 8 Support of Texas Stream Team Programs

- TST training planned for Basin 11 at Brazosport College – event has been scheduled for September 14th.

Thanks,

Steve

Steven Johnston
Senior Planner
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<http://h-gac.com/community/water/tmdl/big/default.aspx>