

**Houston-Galveston Area Council
FY2016-2017 Clean Rivers Program
Contract No. 582-18-80290
Progress Report**

FY 2018 - Quarter 4: Covering June 1, 2018 through August 31, 2018

Deliverable		Due Date	Deliverable Status Date Submitted	Quarterly Activity And Summary
Task 1	Administration			
	General Information			
		12/15/17	12/15/17	Ranatunga, Lei, Sambidi, and Lee met with Hoffman, Wright, and Merrell to work on an SOP for updating the GIS databases and updating the WRIM data. Hoffman had found some sites to be missing and since there had been staff turn-over and reassignment of duties, all staff needed to know who was responsible for what actions.
		3/15/18	3/15/18	CRP staff met with Forecasting Staff Sungmin Lee and Thushara Ranatunga to discuss options for how to create an interactive web based, 2018 Basin Highlights Report. Ranatunga conducted analyses on land cover data for the BHR.
		6/15/18	6/14/18	CRP staff met with Forecasting Staff Lee, Zhou, and Sambidi to work through issues that were found while reviewing the interactive web based platform for the 2018 Basin Highlights Report. CRP has been short one full-time employee for approximately 5-6 months. Rachel Fields' time was split working between two projects at H-GAC. Very recently, Fields was officially transferred out of the Clean Rivers Program to the other project. Her vacancy will be temporarily filled by a college student intern for the summer while efforts are made to fill that full-time position.
		9/15/18	9/14/18	<i>Lei Zhou's last day at H-GAC was 8/16/18. Will Merrell's last day at H-GAC was 8/23/18.</i>
		12/15/18		
		3/15/19		
		6/15/19		
		8/31/19		
1A	Progress Reports			
		12/15/17	12/15/17	Majority of the 8 th Quarter of FY17 progress report was sent to TCEQ via e-mail on 10/17/17. The close-out progress report was sent via e-mail on 11/30/17.

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		3/15/18	3/15/18	The 1 st Quarter of FY18 progress report was sent to TCEQ via e-mail on 12/15/17.
		6/15/18	6/14/18	The 2 nd Quarter of FY18 progress report was sent to TCEQ via e-mail on 3/15/18.
		9/15/18	9/14/18	<i>The 3rd Quarter of FY18 progress report was sent to TCEQ via e-mail on 6/15/18.</i>
		12/15/18		
		3/15/19		
		6/15/19		
		8/31/19		
1Ai	Reimbursement Forms			
		12/31/17	12/31/17	The FY17Q4 voucher was sent to TCEQ on 10/25/17. The final voucher is expected to be sent before the end of December 2017.
		3/15/18	3/15/18	The 1 st Quarter FY18 voucher was sent to TCEQ on 12/29/17.
		6/15/18	6/14/18	The 2 nd Quarter of FY18 voucher was sent to TCEQ via e-mail on 3/28/18.
		9/15/18	9/14/18	<i>The 3rd Quarter of FY18 voucher was sent to TCEQ via e-mail on 6/28/18.</i>
		12/15/18		
		3/15/19		
		6/15/19		
		8/31/19		
1B	Annual Self Evaluation	8/31/18	8/30/18	<i>H-GAC's annual self-evaluation was submitted to TCEQ on 8/30/18.</i>
		8/31/19		
1B	Annual Subcontract Evaluations	8/31/18	8/30/18	<i>Annual self-evaluations were completed for all sub-contracted local partners – HHD, EIH, TRIES & Eastex Lab – and were submitted to TCEQ on 8/30/18.</i>
		8/31/19		
1C	Procurement Procedures Documentation – upon execution of the subcontracts	As Needed	3/15/18	H-GAC's Procurement Policy and Procedure Manual v2.18 was sent to TCEQ on 3/14/18.
1F	Participation at CRP Planning Meetings	As Needed	10/12/17	H-GAC staff participated in the state-wide CRP partners conference call with TCEQ.

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			11/6/17	H-GAC staff met with our TCEQ PM to review H-GAC's ideas and plans for the 2018 Basin Highlights Report.
			12/11/17	H-GAC participated in the state-wide CRP partners conference call with TCEQ.
1D	Submission of documents for Site Visit or Desk Review	Upon Request		
1H	Attendance at Training Events	As Needed	12/15/17	11/6--9/17 – Hoffman and Fields attended the 31 st Annual SWQM Workshop held at the Mayan Ranch, Bandera, TX.
			6/6/18	Running, Wright, Hoffman, and Begley attended the state-wide CRP meeting in Seguin, TX. Running and Begley gave presentations about 'Outreach Efforts and Messaging'.
1I	Financial Audit Letter	Within 270 days of end of H-GAC fiscal year		
Task 2	Quality Assurance			
2A	Laboratory/NELAP updates	12/15/17	12/15/17	Proficiency test samples were purchased for the City of Houston HHD, City of Houston DWO, and HCPCS laboratories on 9/19/17, at a total cost of \$1,393. H-GAC prepared a check in the amount of \$1265 for COH Drinking Water Operations NELAP accreditation renewal fees on 10/27/17.
		3/15/18	3/15/18	Proficiency test samples were purchased for the City of Houston HHD, City of Houston DWO, and HCPCS laboratories. The purchase order was issued by H-GAC 3/13/18, and the total cost of \$1,414. The vendor will not bill H-GAC until samples are shipped in April 2018.
		6/15/18	6/14//18	PT samples were sent out in early April. Local partner labs – Houston Health Department, Houston Drinking Water Operation, and Harris County Pollutions Control received their samples in early April. All lab passed.

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	Laboratory/NELAP updates. <i>(continued)</i>	9/15/18	9/14/18	<i>A purchase request was submitted for the October round of proficiency test samples. NSI Lab Solutions will ship samples to City of Houston HHD, City of Houston DWO, and Harris County Pollution Control at a total cost of \$1414</i> <i>City of Houston DWO provided their most recent TCEQ TNI audit to Hoffman upon his request, following notification of findings related to analyses performed for CRP. Evaluation of the impact on data quality is pending.</i>
		12/15/18		
		3/15/19		
		6/15/19		
		8/31/19		
2A	Basin Wide QAPP Receipt and Commitment Letters	10/15/17	10/2/17	These letters are not required because all partners signed the QAPP. Electronic copies of the QAPP were distributed immediately after approval back on October 2, 2017. I have electronic responses of them receiving the electronic version. Hard copies of the entire QAPP, including the map, were passed out at the Regional Monitoring Workgroup meeting on 12/12/17. Partners signed a form indicating they had received the hard copy.
2A	Draft FY 2020-21 Basin-wide QAPP	6/15/19		
2A	Final FY 2020-21 Basin-wide QAPP	8/15/19		
2B	Specified Sections of the Regional QAPP posted to the Web	10/31/17	12/14/17	Hard copy document was scanned and posted to the website along with the last appendices from the previous QAPP.
2C	Draft QAPP Appendix B amendment for FY2019 Monitoring	6/15/18	6/15/18	<i>The draft of Amendment No. 1 (Appendix B) was submitted to TCEQ on 6/14/18. At the PM's request, it was combined into 1 version (a PDF version) and resubmitted on 6/18/18.</i>
2D	Final QAPP Appendix B amendment for FY2019 Monitoring	8/15/18	8/15/18	<i>Multiple versions of the 'final' Appendix B were submitted to TCEQ beginning 7/31/18. After several reiterations, the document was approved signed off as approved by TCEQ on 8/31/18.</i>
2E	Planning meeting for special studies or permit support monitoring -- (90 days prior to the planned sampling date)	As Needed	9/11/18	<i>PM Rodibaugh met with H-GAC staff and Jenny Oakley, EIH partner representative, to discuss the flow ratings curve project that CRP was funding during FY2019. PM will present information to TCEQ to determine whether the flow ratings curve maintenance will require a QAPP amendment or not.</i>

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2F	Planning meeting notes for special studies or permit support monitoring	Within two weeks of meeting		
2G	QAPP Appendices for special studies	As Needed, within 30 days of planning meeting		
2H	QAPP Amendments & Revisions to Appendices	As needed, if applicable		
2I	QAPP Appendix and Amendment QAPP receipt and commitment letters	As needed, if applicable	9/11/18	<i>The approved QAPP Amendment No. 1 was sent out via e-mail to all local partners on 8/31/18. Hard copies were passed out to all partners, except SJRA which will be sent via mail, on 9/11/18. Representatives from all local partners signed for their copies at the Regional Monitoring Workgroup meeting.</i>
2J	Participate in TCEQ Monitoring Systems Audit and Respond to Comments	As Needed		
2K	Conduct on-site oversight assessments of sub-participants once during each project or once during the contact cycle	Once During Contract 8/31/19	11/15—16/17	Wright and Hoffman conducted an on-site field audit and data processing audit on the SJRA water monitoring program. The report is still being finalized and will be sent to TCEQ as soon as it is finished. There were several issues that are going to need to be addressed in the coming months before H-GAC is totally satisfied that improvements have been made and fully incorporated into the program.
2L	On-site Project Assessment Report and Response	With Progress Report 8/31/19		
2M	Corrective Action Report status	With Progress Reports	12/15/17	There is nothing new to report on Corrective Action Reports. Only CRP 17-003 is still pending. Have not finished dealing with all the SJRA issues.
			3/15/18	CRP 17-003 is still pending.
			6/14/18	CRP 17-003 is still pending. One more data submission will be evaluated before this Corrective Action Plan is closed.
2N	Summary of training for local agencies	As needed, if applicable	3/15/18	The 12/12/17 RMW meeting is used as the annual re-training/review of the SWQM procedures. Representatives from both field staff and lab staff are

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		with Progress Reports		requested to be in attendance. Only SJRA was missing from that meeting.
Task 3	Water Quality Monitoring			
3A	Conduct Water Quality Monitoring and Summarize Activities	With Progress Reports	12/15/17	<p>The quarterly CRP Regional Monitoring Workgroup meeting was held on Tuesday, 9/12/17, at H-GAC. Verbal reports about local monitoring programs were given. Wright led a discussion about reporting Flow Severity with field data. TCEQ Project manager attended meeting to help with discussion about changing duties and responsibilities section in the QAPP. After much discussion, the topic was set aside pending specific changes needed to approve draft QAPP. H-GAC will revisit this issue in the future. Meeting summary notes attached.</p> <p>As of the end of November 2017, H-GAC's routine ambient monitoring program is up-to-date. All sites were monitored and samples collected as planned. Six out of six 24-hr DO sondes were deployed during the quarter as planned. See H-GAC's monitoring tracking sheets attached for complete number of H-GAC's monitoring efforts. Tracking sheets include both ambient monitoring and 24-hour DO.</p> <p>All local partners continued to conduct regular water quality monitoring programs. Local partner also collected TKN samples and Chlorophyll a samples but not as planned. The DWO Laboratory moved locations between September and November. As a result, samples were not collected from Lake Conroe, Lake Houston, nor the Lake Houston watershed sites. SJRA also had equipment issues which resulted in lost DO data. See attached Percent Complete report and separate tracking sheets for TKN and chlorophyll a tracking sheets. Because TRIES collect neither TKN nor Chlorophyll a samples, a routine monitoring tracking sheet is also included for review.</p>
	Conduct Water Quality Monitoring and Summarize Activities (continued)	3/15/18	3/15/18	The quarterly CRP Regional Monitoring Workgroup meeting was held on Tuesday, 12/12/17, at H-GAC. Verbal reports about local monitoring programs were given by all local monitoring programs except SJRA and USGS. Wright

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				<p>passed out the hard copies of the FY18-19 QAPP to supplement the electronic version sent out in early October 2017. Certified, traceable thermometers were given out to several monitoring programs since they do not have a lab on-site and the data sondes are to be checked on monthly or bi-monthly basis. Since this meeting is primarily used as a re-training/review meeting of all SWQM procedures, H-GAC put the review questions in the form of a Jeopardy game and all persons attending the meeting participated in the game and multiple discussions about the correct answers. Meeting summary notes attached.</p> <p>During the second quarter, no monitoring was conducted by H-GAC. Rather the sampling schedule was put off until early March 2018. All sampling was conducted before the 15th and will be reported in the next report.</p> <p>All local partners continued to conduct regular water quality monitoring programs. Local partner also collected TKN samples and Chlorophyll <i>a</i> samples during the quarter including all missed samples not collected during the 1st quarter. See attached Percent Complete report and separate tracking sheets for TKN and chlorophyll a tracking sheets. Because TRIES collect neither TKN nor Chlorophyll a samples, a routine monitoring tracking sheet is also included for review.</p>
	Conduct Water Quality Monitoring and Summarize Activities (continued)	6/15/18	6/14/18	<p>There was no CRP Regional Monitoring Workgroup meeting this quarter. Instead, local partners attended the annual CMM. Partner information needed for the TCEQ quarterly report was collected via e-mail and phone solicitation. Next meeting is scheduled for Tuesday, 6/12.</p> <p>Fields research and help develop safety protocols to create an in-house Safety SOP to cover all field work at H-GAC. Once it is finalized, it will be shared with other local partners. A few other CRP state-wide partners have asked for a copy as well.</p> <p>During the third quarter, H-GAC conducted an entire round of monitoring that was held over from the 2nd quarter. Limited 3rd quarter monitoring was</p>

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				<p>conducted by H-GAC in May. Monitoring was scheduled at the beginning of the month, however, heavy rainfall in the area during the previous two evenings where 24-hour sondes were planned to be deployed, prevented their deployment. All four locations were found to be in flood stage so the deployment was postponed. The next day, the field crew was able to deploy one sonde in the northeast area of the region where less than a quarter of an inch of rainfall occurred during the same time period. See attached tracking sheets for H-GAC's routine monitoring and 24-hour DO.</p> <p>All local partners continued to conduct regular water quality monitoring programs. Local partner also collected TKN samples and Chlorophyll a samples during the quarter including any missed samples not collected during the 2nd quarter. See attached Percent Complete report and separate tracking sheets for TKN and chlorophyll a. Because TRIES collect neither TKN nor Chlorophyll a samples, a routine monitoring tracking sheet is also included for review.</p>
	Conduct Water Quality Monitoring and Summarize Activities (continued)	9/15/18	9/14/18	<p><i>The quarterly CRP Regional Monitoring Workgroup meeting was held on Tuesday, 9/11/18, at H-GAC. Verbal reports about local monitoring programs were given by all local monitoring programs except SJRA and USGS. Wright passed out the hard copies of the FY18-19 QAPP Amendment No. 1 to supplement the electronic version sent out on 8/31/18. Two presentations were given at the meeting: an update on Watershed Protection Plans in the greater H-GAC region and Galveston Bay Foundation Water Quality Program and Projects. Meeting summary notes attached.</i></p> <p><i>All local partners continued to conduct regular water quality monitoring programs. Local partner also collected TKN samples and Chlorophyll a samples during the quarter including any missed samples not collected during the previous quarter. See attached Percent Complete report and separate tracking sheets for TKN and chlorophyll a. Because TRIES collect neither TKN nor Chlorophyll a samples, a routine monitoring tracking sheet is also included for review.</i></p>

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				<i>During the fourth quarter, H-GAC conducted an entire round of monitoring plus caught up on monitoring missed from previous quarter. The M-9 River Surveyor flow board was finally repaired during July/early August and the crew was able to use it late in August. All 24-Hr DO sites were at normal flow stage so sondes could be deployed. All missed deployments were also picked up during this quarter. See attached tracking sheets for H-GAC's routine monitoring and 24-hour DO.</i>
3C	Coordinated Monitoring Meeting	4/3/18	4/3/18	The annual Coordinated Monitoring Meeting (CMM) was conducted on Tuesday, 4/3, at H-GAC. Representatives from all local partners, except SJRA, attended during the day. SJRA called and discussed their monitoring plans with H-GAC's QAO two weeks prior due to the potential of SJRA staff being out on paternity leave. It was well planned since the paternity leave started the weekend prior to the CMM.
		4/??/19		
3D	Coordinated Monitoring Meeting Summary of Changes	2 weeks after CM meeting or 5/15/18	4/16/18	A summary of changes from the CMM was submitted to TCEQ Project Manager on 4/16, one day before the deadline. A complete meeting summary packet is attached.
		2 weeks after CM meeting or 5/15/19		
3E	Email Notification to CRP Manager that statewide CMS update has been completed	5/31/18	5/31/18	E-mail notification of the CMS being updated was completed on 5/31. H-GAC did not receive HHD site recon information until the end of May. Hoffman has submitted SLOC requests and is waiting for approval from TCEQ. Subsequently, there are a few sites that do not have SLOCs so the CMS must be revisited as soon as the SLOC IDs are issued and TCEQ has submitted a new master list to LCRA. After that, LCRA must update the CMS list of stations on the web site. Sequences!
		5/31/19		
3E	Special Study Status Reports	Quarterly after start of project		

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3F	Special Study – Site Characterization – DRAFT Report(s)	5/1/19		
3H	Special Study – Site Characterization – FINAL Report(s)	8/1/19		
Task 4	Data Management			
4A	Surface Water Quality Monitoring data files, SWQMIS Validator Report and Data Summary Report	12/1/17	12/1/17	<p>Harris County PCS data for June 2017 through September 2017 were submitted to TCEQ on 11/28/17. Data were accepted by TCEQ 2/1/18.</p> <p>SJRA data for January through June 2017 were submitted to TCEQ on 11/22/17. There were 347 events and 3,280 results. Revised data were submitted 3/5/18. Data are under review at TCEQ.</p> <p>City of Houston DWO data for June 2017 through September 2017 were submitted to TCEQ on 11/28/17. There were 36 events and 917 results. Data were accepted by TCEQ 2/1/18.</p> <p>Environmental Institute of Houston data for July 2017 were submitted to TCEQ on 11/30/17. There were 155 events and 2,278 results. Data were accepted by TCEQ 2/1/18.</p> <p>City of Houston HHD data for June 2017 through August 2017 were submitted to TCEQ on 11/30/17. There were 399 events and 9,545 results. Data were accepted by TCEQ 2/1/18.</p> <p>H-GAC ambient monitoring data for June 2017 through August 2017 were submitted to TCEQ on 11/30/17. There were 22 events and 612 results. Data were accepted by TCEQ 2/1/18.</p>

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				<p>H-GAC 24-Hour DO data for June 2017 through August 2017 were submitted to TCEQ on 11/30/17. There were 6 events and 90 results. Data were accepted by TCEQ 2/1/18.</p> <p>TRIES data for June and August 2017 were submitted to TCEQ on 11/28/17. There were 20 events and 540 results. Data were accepted 2/18/18 by TCEQ.</p>
	Surface Water Quality Monitoring data files, SWQMIS Validator Report and Data Summary Report (continued)		<p>3/1/17 Due Date Extended to 3/22/18</p>	<p>HHS data for October and November 2017 were submitted to TCEQ on 3/13/18. There were 266 events and 6219 results. <i>Data were accepted by TCEQ 6/14/18.</i></p> <p>COH DWO data for December 2017 were submitted to TCEQ on 3/12/18. There were 21 events and 528 results. <i>Data were accepted by TCEQ 6/14/18.</i></p> <p>TRIES data for October 2017 were submitted to TCEQ on 3/6/18. There were 9 events and 234 results. <i>Data were accepted 4/18/18 by TCEQ.</i></p> <p>EIH data for November 2017 were submitted to TCEQ on 3/12/18. There were 151 events and 2027 results. <i>Data were accepted by TCEQ 6/14/18.</i></p> <p>HCPC data for October-December 2017 were submitted to TCEQ on 3/6/18. There were 160 events and 2041 results. <i>Data were accepted by TCEQ 6/14/18.</i></p> <p>H-GAC ambient data for October 2017 were submitted to TCEQ on 3/7/18. There were 21 events and 551 results. <i>Data were accepted by TCEQ 6/14/18.</i></p>

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				<p>H-GAC 24-hour DO data for October 2017 were submitted to TCEQ on 3/7/18. There were 6 events and 90 results. <i>Data were accepted by TCEQ 6/14/18.</i></p> <p>SJRA data is being processed. It was received late and had many questions and formatting issues to deal with. It will be submitted as soon as the final review is completed.</p>
	Surface Water Quality Monitoring data files, SWQMIS Validator Report and Data Summary Report (continued)	6/15/18	6/15/18	No data was submitted during this period.
		9/15/18	9/14/18	<p><i>SJRA data for October – December 2017 were submitted to TCEQ on 8/1/18. There were 186 events and 1377 results. Data are under review at TCEQ.</i></p> <p><i>SJRA data for January-May 2018 were submitted to TCEQ on 8/1/18, but at the request of the TCEQ PM the data was separated into Lake Conroe and Lake Woodlands datasets and resubmitted 9/10/18.</i></p> <p><i>SJRA Woodlands data for January-May 2018 were submitted to TCEQ on 9/10/18. There were 79 events and 809 results. Data are under review at TCEQ.</i></p> <p><i>SJRA Lake Conroe data for January-May 2018 were submitted to TCEQ on 9/10/18. There were 209 events and 1698 results. Data are under review at TCEQ.</i></p> <p><i>EIH data for January and April 2018 were submitted to TCEQ on 8/1/18 and resubmitted with corrections 9/10/18. There were 282 events and 3647 results. Data are under review at TCEQ.</i></p> <p><i>HCPC data for January-May 2018 were submitted to TCEQ on 7/25/18. There were 233 events and 2935 results. Data are under review at TCEQ.</i></p>

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				<p><i>H-GAC data for January-May 2018 were submitted to TCEQ on 7/30/18. There were 36 events and 832 results. Data are under review at TCEQ.</i></p> <p><i>City of Houston HHD data for January-April 2018 were submitted to TCEQ on 7/25/18. There were 532 events and 11,360 results. Data are under review at TCEQ.</i></p> <p><i>City of Houston DWO data for January-May 2018 were submitted to TCEQ on 7/25/18. There were 79 events and 1797 results. Data are under review at TCEQ.</i></p> <p><i>TRIES data for January and April 2018 were submitted to TCEQ on 7/25/2018. There were 20 events and 520 results. Data are under review at TCEQ.</i></p>
4B	Surface Water Quality monitoring data updates posted to the web or link to TCEQ water quality data.	2/1/18	2/1/18	Updated Access databases were added to the H-GAC CRP website on 1/18/18.
		8/1/18	8/1/18	Updated Access databases were added to the H-GAC CRP website on 7/18/18.
		2/1/19		
		8/1/19		
4C	Provide Summary of Database and GIS Upgrades	2/1/18	2/1/18	Data and station pages on the WRIM were updated 11/15/17.
		8/1/18	8/1/18	Data and station pages on the WRIM were updated 1/19/18 and 3/5/18.
		2/1/19		Data and station pages on the WRIM were updated 6/16/2018.
		8/1/19		
4	Data Correction Request Forms	As Needed	12/15/17	Hoffman submitted a DCR to TCEQ 10/4/17 to correct 34 flow values reported previously by SJRA. TCEQ completed the corrections 10/18/17.
			8/14/18	Hoffman submitted a data resubmittal form for TRIES data on 6/25/18. During the annual TNI audit, a TSS method deviation was noted and documented as a

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				<i>finding in the audit report. H-GAC did not believe data quality was compromised.</i>
4	Station Location Request Forms	As Needed	12/15/17	Two SLOC requests to create a station were requested and approved in this period (9/22/17 and 9/28/17).
			8/14/18	Eight SLOC change requests were made 10/23/17. All have been approved. <i>There were no SLOC requests during this quarter.</i>
Task 5	Data Analysis and Reporting			
	General Data Analysis Activities	12/15/17	12/15/17	Hoffman conducted preliminary data analysis and revised SAS code in preparation for the 2018 Basin Highlights Report.
	(Continued) General Data Analysis Activities	3/15/18	3/15/18	Hoffman conducted extensive data analysis and prepared multiple tables and 1,104 graphs/charts for the 2018 Basin Highlights Report.
		6/15/18	6/14/18	Hoffman conducted additional data analysis for the 2018 Basin Highlights Report. Fields conducted some data analysis on CRP and Texas Stream Team data to be used in several watershed reports.
			8/14/18	<i>There was no general data analysis conducted during this quarter.</i>
5A	Preparation meeting for Basin Highlights Report	12/15/17	11/6/17	This meeting was not required but Clean Rivers Program staff met with TCEQ PM on 11/6/2017 at the Annual SWQM Conference to discuss the outline for the upcoming 2018 Basin Highlights Report (BHR).
		12/15/18		
5A	Draft 2018 Basin Highlights Report – Watershed Characterizations	2/15/18	2/15/18 Due Date Extended to 2/22/18	Draft text, tables, graphs, and pictures were submitted to TCEQ in WORD format for review and track change comments. Extensive data analysis was conducted by Hoffman and Ranatunga conducted extensive analysis on land cover data and change in land cover data.
5A	Draft 2019 Basin Highlights Report (BHR) – Standard	2/15/19		

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5B	FINAL 2018 Basin Highlights Report – Watershed Characterizations	5/15/18 6/30/18	6/14/18	Received final comments back from TCEQ in May. There were enough edits needed/recommended that some major section re-writes were necessary. Couple with that were the challenges of getting the report web application working correctly. As a result, H-GAC requested a long enough extension to allow for a TCEQ review of the web application before it is launched to the public. Once TCEQ approves the report in the web application, screen shots of the report will be provided to TCEQ as hard-copy documentation of the deliverable.
		6/30/18 7/6/18	7/6/18	<i>The web-based report was 'launched' to the public on 6/30/18. A hard copy print-out was made of all the screen shots to provide TCEQ with a file copy of the BHR.</i>
5B	FINAL 2019 Basin Highlights Report - Standard	5/15/19		
5C	Post 2018 Basin Highlights Report to the Web	6/30/18	6/30/18	<i>The final web-based 2018 BHR was launched to the public on 6/30/18.</i>
5C	Post 2019 Basin Highlights Report to the Web	6/30/19		
Task 6	Stakeholder Participation and Public Outreach			
6A	Document & notify TCEQ that website meets outlined Web Site Requirements	12/15/17	12/15/17	Website meets TCEQ's website requirements with required links. Updates have been posted to the H-GAC website for the past quarter.
		12/15/18		
6B	Provide summary of updates and/or copies of revised website pages in Progress Report	12/15/17	12/15/17	Copies of revised pages are attached to this report. Specifically, changes have been made to the following pages: <ul style="list-style-type: none"> • Regional FY18-19 QAPP, • Regional QAPP appendices for FY 16-17 (not previously loaded), • updated Water Resources Interactive Map (WRIM) monitoring sites, • Water Resources Publications pages.

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		3/15/18	3/15/18	Copies of revised pages are attached to this report. Specifically, changes have been made to the following pages: <ul style="list-style-type: none"> • Basin Steering Committee Roster • Water quality data accessible through the H-GAC web site • Updated Water Resources Interactive Map (WRIM) monitoring sites,
		6/15/18	6/14/18	Copies of revised pages are attached to this report. Specifically, changes have been made to the following pages: <ul style="list-style-type: none"> • Basin Steering Committee meeting summary • Updated Water Resources Interactive Map (WRIM) Texas Stream Team html pages on 3/20/18, 4/16/18, and 5/15/18.
		9/15/18	9/14/18	Copies of revised pages are attached to this report. Specifically, changes have been made to the following pages: <ul style="list-style-type: none"> • <i>Posted link to 2018 Basin Highlights Report under Clean Rivers Program page followed by the open link (cover page) to the report.</i> • <i>Surface Water Monitoring Data page has newly uploaded data from SWQMIS. Shown by basin and by local partner.</i> • <i>Data on WRIM was updated.</i> • <i>Another link to 2018 BHR on the Water Resources Publications page.</i>
		12/15/18		
		3/15/19		
		6/15/19		
		8/31/19		
6C	Contact Steering Committee Members to promote/confirm participation and review response against membership guidelines, distribute Pre Meeting Questionnaire	45 days prior to meeting	3/19/18	In late January, H-GAC began updating the BSC membership list with inquiries about continued participation on the committee. During those phone calls, members were asked for input to the meeting agenda. The first meeting

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				announcement was sent 3/19/18. Additional meeting announcements were sent on 4/19/18, 4/23/18, and 4/30/18.
6D	Distribute/Post final meeting announcements and final agenda for steering committee meetings	As Needed 15 days prior to meetings	4/19/18 and 4/23/18	The final agenda was attached to the 4/19/18 meeting announcement but still included the 'draft' watermark. A corrected meeting announcement with the watermark removed was resent on 4/23/18.
6E	Conduct Basin Steering Committee Meetings (Before August 31, 2016)	As Needed 1 in latter half of fiscal year	5/1/18	The annual BSC meeting was conducted on Tuesday, 5/1/18, at Trini Mendenhall Community Center, Houston.
6F	Steering Committee Meeting materials	As Needed, with PR	5/11/18	The BSC meeting summary packet was assembled and finished within two weeks of the meeting. See attachment.
6G	Steering Committee Summary posted to web	45-60 days after meeting	6/12/18	The meeting summary was posted to H-GAC's web pages 6/12/18.
6H	Materials from education and outreach activities including description of & materials from.	12/15/17	12/15/17	<p>MEETING AGENDAS & EVENT FLYERS ATTACHED TO THIS REPORT.</p> <p>9/26/17 – Janhsen facilitated the Clean Water Initiative Workshop. Topic of workshop was using watershed-based plans to improve water quality. Johnston presented about ongoing TMDL and WPP projects at H-GAC. Begley presented about a new coastal communities' water quality outreach and education grant program. Registration was 37 and 22 attended.</p> <p>10/03/17 – Begley attended the Bayou Preservation Association Nonpoint Source Pollution Prevention Committee meeting.</p> <p>10/05/17 – Begley attended the CITCO Employee Volunteer Fair. Booth included information on Texas Stream Team Volunteer Monitoring Program, Water Resources Information Map, and River, Lakes, Bays 'N Bayous Trash Bash.</p> <p>10/12/17 – Janhsen attended the Trash Summit 2017 half-day workshop on behalf of CRP.</p> <p>10/18/17 - Running attended the Galveston Bay Council meeting to participate</p>

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			<p>in lightning talks about Hurricane Harvey.</p> <p>10/19/17 – Begley, Bower, Janhsen, Johnston, Merrell, Running, and Wright attended the full-day Bayou Preservation Symposium. H-GAC sponsored an educational exhibit booth containing information about the Clean Rivers program, Texas Stream Team, Trash Bash, and water quality projects that use CRP monitoring.</p> <p>10/24/17 – Janhsen facilitated the Clean Water Initiative Workshop. Topic of workshop was better public engagement practices. Registration was 48 and 24 attended.</p> <p>11/07/17 – Begley attended the Bayou Preservation Association Nonpoint Source Pollution Prevention Committee meeting.</p> <p>11/28/17 - Janhsen facilitated the Clean Water Initiative Workshop. Topic of workshop was freshwater inflows. Registration was 59 and 40 attended.</p> <p><u>Texas Stream Team outreach activities included:</u></p> <ul style="list-style-type: none"> • 10/12/17 – Fields and Merrell attended the Carnegie Vanguard HS Student Environmental Fair. CRP manned two tables, one about Texas Stream Team and one about general storm water protection strategies for residents at home using the LID interactive game. • 10/21/17 – A Texas Stream Team Phase I and II training was held in The Woodlands Township. 30 trainees attended and a high school class observed. • 11/8/17 – Begley published the Texas Stream Team quarterly newsletter for Nov 2017-January 2018. The newsletter goes to approximately 400

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				<p>subscribers. The open rate for the newsletter was 40 percent with the most click-throughs to the H-GAC Stream Team web page.</p> <ul style="list-style-type: none"> 11/8/17 – Merrell attended a Carnegie-Vanguard HS Student Environmental Field Trip. With assistance from active Texas Stream Team volunteer monitors, 50 students received an overview of all the monitoring parameters of the Stream Team program in two 1.5-hour session. 11/10/17 – Merrell conducted a Texas Stream Team Phase III training at Woodson’s Gully in Montgomery County. 11/27/17 - Merrell conducted a Texas Stream Team Phase III training at Sims Bayou in Harris County. 11/28/17 – Merrell and Fields attended a Carnegie-Vanguard HS Student Environmental Field Trip. With assistance from active Texas Stream Team volunteer monitors, 50 students received an overview of all the monitoring parameters of the Stream Team program in two 1.5-hour session.
	Materials from education and outreach activities including description of & materials from. <i>(continued)</i>	3/15/18	3/15/18	<p>MEETING AGENDAS & EVENT FLYERS ATTACHED TO THIS REPORT.</p> <ul style="list-style-type: none"> 01/09/18 – Staff manned a table at the H-GAC Employee Health and Wellness Fair. Theme of educational materials was how to reduce water pollution with easy behavior changes at home. 01/10/18 – Begley facilitated a steering committee planning meeting for the River, Lakes, Bays ‘N Bayous Trash Bash.

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				<ul style="list-style-type: none"> 01/10 – 01/31/18 – Begley participated in a series of seven action plan goal setting conference calls for the regional Marine Debris Reduction Action Plan (www.donttrashagoodthing.org). 01/31/18 – Begley attended the North Houston Association Meeting. Networked with Greens Bayou Coalition about Texas Stream Team and Trash Bash participation. 1/31/18 – Running attended the Galveston Bay Council meeting as the representative for Jeff Taebel who is a voting member of the council. 02/06/18 – Stormwater quality brochure (250) and Trash Bash brochure (100) provided for Friends of the River San Bernard school outreach program. 02/10/18 – Outreach display materials borrowed for Houston ISD school fair event. Provided 50 Trash Bash brochures, 50 stormwater quality brochures, and 25 pet waste bag dispensers. 02/14/18 – Begley facilitated a steering committee planning meeting for the River, Lakes, Bays ‘N Bayous Trash Bash. 02/19/18 – Provided 26 pet waste bag dispensers, 26 pet waste brochures, and 1,260 pet waste bag refill rolls for a Girl Scout Silver Award project with the Citizens for Animal Protection program. 02/27/18 – Begley participated in a planning session with the regional Marine Debris Reduction Action Plan steering committee to consider next steps in finishing the plan and the next summit meeting.

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				<ul style="list-style-type: none"> 02/28/18 – Begley presented on the River, Lakes, Bays ‘N Bayous Trash Bash at the H-GAC Agency Staff Meeting. 02/28/18 – Wright attended the Galveston County Post-Harvey Community Open House representing the Clean Rivers Program. <p><u>Texas Stream Team outreach activities included:</u></p> <ul style="list-style-type: none"> 02/16/18- Begley and Fields taught a Texas Stream Team Phase I and II training in Lake Jackson. There were 11 trainees and 1 trainer-in-training in attendance.
	Materials from education and outreach activities including description of & materials from. <i>(continued)</i>	6/15/18	6/14/18	<p>Meeting Agendas & Event Flyers are attached to this report.</p> <p>Begley and Fields prepared, conducted training, and distributed supplies and material for watershed education. Those Education and Outreach materials were borrowed for use by 10 organizations during the quarter; Citizens for Animal Protection (CAP), Bayou Preservation Association, Galveston Bay Foundation, Galveston Bay Estuary Program, Student Conservation Association, Sam Houston Council of Boy Scouts, Girl Scouts of San Jacinto, University of Houston-Downtown, Greater Northside Management District, KPFT 90.1FM.</p> <p>Outreach materials trainings were held for the Student Conservation Association, Bayou Preservation Association, and Trash Bash site coordinators.</p> <p>03/01/18 – Running attended the North Houston Association meeting and gave an update on ambient monitoring in the area.</p> <p>03/03/18 – Begley and Merrell attended Nature Fest at Jesse H. Jones Park & Nature Center. The exhibit focused on common causes of water pollution, using the Common Causes Quiz Poster and the LID stormwater exhibit. Materials distributed included Trash Bash brochures, stormwater quality brochures, LID</p>

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			<p>brochures, West Fork WPP flyer, 2017 BHR flyer, pet waste bag dispensers. Displays included a poster quiz about the common causes of water pollution, What Watershed Do You Live In map, and the pledges for Pet Waste, FOG, and LID. H-GAC's booth was part of a Bingo game. Kids had to earn their stickers by answering a question from the stormwater quiz card collection.</p> <p>03/05/18 – Running attended the Galveston Bay Plan Update Open House in LaMarque. He was representing H-GAC to answer any questions about CRP monitoring in the Galveston Bay watershed.</p> <p>03/08/18-Running and Begley attended the Southeast and South-Central Texas Regional Watershed Coordination Steering Committee Meeting to participation in a group discussion on addressing pollution from trash and littering.</p> <p>03/08/18 – Running and Begley attended the Lower Colorado River Authority Water Quality Steering Committee Meeting to observe and discuss common issues.</p> <p>03/09/18 – Janhsen and Running attended the H-GAC Board of Directors Annual Dinner to man an exhibit on the River, Lakes, Bays 'N Bayous Trash Bash 25th anniversary.</p> <p>03/09/18 – Tantillo presented on proper pet waste disposal to the Boeing Toastmasters Club #4908, including a “pitch the poop” interactive display. Attendees with dogs were given pet waste bag dispensers and bookmarks.</p> <p>03/14/18 – Begley facilitated a steering committee planning meeting for the River, Lakes, Bays 'N Bayous Trash Bash.</p> <p>03/24/18 – Begley, Running, Bower, Wright, Johnston, and Fields participated in the River, Lakes, Bays 'N Bayous Trash Bash. 3,591 volunteers picked up</p>

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			<p>85.5 tons of trash, .94 tons of recycling, and 356 tires while cleaning 158.5 miles of shoreline. All 14 sites had educational exhibit areas that focused on reducing bacteria through proper pet waste disposal, proper handling of fats, oils, grease, preventing runoff pollution from your property, and sorting trash for a zero-waste experience.</p> <p>03/28/18 – A Clean Waters Initiative workshop was held at H-GAC with CRP staff in attendance. The topic was Transportation Projects and Water Quality.</p> <p>04/03/18 – Begley attended the Bayou Preservation Association Nonpoint Source Pollution Prevention Committee (BPANPSPPC) meeting. Trash was the main topic. Begley presented preliminary Trash Bash results.</p> <p>04/14/18 – Wright and Running attended the Sam Houston Area Council Boy Scout Fair at NRG Arena. The exhibit focused on common causes of water pollution, using the LID stormwater exhibit and pledge. Materials distributed included Trash Bash brochures, stormwater quality brochures, and pet waste bag dispensers. Displays included a What Watershed Do You Live In map where visitors pinned their watershed. H-GAC's booth was part of a Bingo game. Kids had to earn their stickers by answering a question from the stormwater quiz card collection. Additional educational materials were loaned to the Galveston Bay Estuary Program for this event.</p> <p>04/14/18 – Bower attended the Baytown Nature Center Nurture Nature Festival. The exhibit focused on common causes of bacteria in water, using the Pitch the Poop materials. Materials distributed included Trash Bash brochures, stormwater quality brochures, and pet waste bag dispensers. watershed. Other items of discussion included OSSF SEP funds, WPPs, FOG issues in Baytown, general water quality, and NRCS/SWCD-TSSWCB landowner programs. Additional educational materials were loaned to the Galveston Bay Estuary Program for this event.</p>

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			<p>04/21/18 – Wright and Johnston attended the Galveston Bay Foundation Bay Day Festival in Kemah. The exhibit focused on common causes of water pollution, using the LID stormwater exhibit and pledge. Materials distributed included Trash Bash brochures, stormwater quality brochures, and pet waste bag dispensers. Displays included a ‘What Watershed Do You Live In?’ map where visitors pinned their watershed. H-GAC’s booth was part of a Bingo game. Kids had to earn their stickers by answering a question from the stormwater quiz card collection. Educational materials were also loaned to the Galveston Bay Estuary Program and KPFT Radio for this event.</p> <p>04/25/18 – Sent 100 pet waste bag dispensers to the Pearland RV Park used for Hurricane Harvey temporary housing in Pearland. The park is located very close to Mustang Bayou.</p> <p>04/25/18 – Begley presented on regional litter projects (Trash Bash, Trash Summit, Trash Free Waters Adopt-a-Spot, BPANPSPPC End of Parade) at the H-GAC Solid Waste Management Committee meeting.</p> <p>05/01/18 – Running, Bower, Johnston, Janhsen, Merrell, and Begley presented project updates at the CRP Steering Committee Annual Meeting. Wright facilitated the meeting. The meeting was also attended by Hoffman and Sims.</p> <p>05/02/18 – The quarterly Texas Stream Team Newsletter was distributed via email to 773 recipients.</p> <p>05/02/18 – Begley participated in a Trash Summit Conference Call on 5/9/18.</p> <p>05/05/18 – Merrell taught and Bower attended an OSSF Homeowner Education Workshop in Mont Belvieu. Two residents attended the workshop.</p> <p>05/09/18 – Begley attended the third regional Trash Summit as a facilitator and presenter. The purpose of the meeting was to get consensus on the goals</p>

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			<p>and strategies of the draft Marine Debris Aquatic Trash Action Plan and consider next steps.</p> <p>05/15/18 – Begley, Fields, and Running attended the Trash Bash Appreciation Luncheon, celebrating 25 years of events and the 2018 TEEA award in the civic/community category.</p> <p>05/15/18 – Begley and Running presented on water quality programs, including CRP, at the Danbury City Council meeting.</p> <p>05/16/18 – A Clean Waters Initiative workshop was held at H-GAC with CRP staff in attendance. The topic was MS4 BMPS and Minimum Control Measures.</p> <p>05/19/18 – Merrell taught and Begley attended an OSSF Homeowner Education Workshop in Bayou Vista. Seven residents attended the workshop.</p> <p>05/24/18 – Begley presented on water quality programs, including CRP, at the Double Bayou WPP annual stakeholder meeting.</p> <p>05/29/18 – Begley participated in a post-summit wrap-up and next steps conference call for Trash Summit.</p> <p>05/30/18 – Wright attended the Galveston County Coalition of Watersheds meeting.</p> <p>05/30/18 – Running attended a meeting about PCBs/Dioxins at the University of Houston.</p> <p><u>Texas Stream Team outreach activities included:</u></p>

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				<ul style="list-style-type: none"> 05/04/18 – Merrell and Begley taught and Sims attended a Texas Stream Team Phase I/II training at the Buffalo Bayou Partnership. Nine volunteer monitors completed both phases.
	Materials from education and outreach activities including description of & materials from. <i>(continued)</i>	9/15/18	9/14/18	<p><i>Meeting Agendas, Event Flyers, & Newsletter are attached.</i></p> <p><i>06/02/18</i> – A silver award Girl Scout candidate (Charlotte Charlton) used the ‘Pitch the Poop’ interactive game and posters and distributed pet waste bag dispensers at a <i>Citizens for Animal Protection</i> event.</p> <p><i>06/06/18</i> – Running, Wright, Hoffman, and Begley attended the state-wide CRP meeting in Seguin. Running and Begley presented on H-GAC’s public engagement efforts.</p> <p><i>06/07/18</i> – Sims attended the GBEP Water & Sediment Quality Sub-committee meeting.</p> <p><i>06/08/18</i> – Begley and Fields attended <i>World Oceans Day</i> event in Galveston, sponsored by Artist Boat. Materials used focused on proper disposal of fats, oils, and grease. Ancillary materials focused on pet waste disposal. Approximately 400 people attended the event. Distributed pet waste bag dispensers, fat funnels, and pan scrapers.</p> <p><i>06/11/18</i> – Begley and Johnston attended the <i>Bayou Preservation Association Watershed Meeting</i> to discuss bacteria in area bayous and outreach opportunities related to bacteria. Distributed pet waste bag dispensers, fat funnels, and pan scrapers.</p> <p><i>06/12/18</i> – Wright facilitated the <i>CRP Regional Monitoring Workgroup Meeting</i>. Running, Hoffman, and Merrell attended.</p> <p><i>06/15/18</i> – Running distributed pet waste bag dispensers for the water quality</p>

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			<p>curriculum unit at the University of Houston Engineering Camp.</p> <p>06/19/18 – Johnston and Begley attended the City of Holiday Lakes city council meeting to discuss water quality projects and programs, including the Clean Rivers Program, for the Brazoria County region.</p> <p>06/23/18 – Citizens for Animal Protection used the Pitch the Poop interactive game and posters and distributed pet waste bag dispensers at their booth at the 2018 Houston Pride Festival.</p> <p>06/23/18 – Begley attended the Brazoria County Hurricane Preparedness Expo. Materials used focused on stormwater prevention pollution, using the LID demonstration and FOG disposal. The EPA After the Storm, H-GAC Separating Debris, and H-GAC general stormwater brochures were distributed, along with pet waste bag dispensers, fat scrapers, and fat funnels.</p> <p>07/18/18 – Begley attended the Schlumberger Health, Safety, and Environment Day at the Houston Ardmore Facility. Materials focused on volunteer activities with Trash Bash and Texas Stream Team, as well as behavior changes focused on reducing bacteria levels in waterway by picking up pet waste and proper disposal of fats, oils, and grease.</p> <p>07/18/18 – Running attended the Galveston Bay Council meeting at the Harris Galveston Subsidence District office.</p> <p>08/23/18 – Begley, Wright, Running, Janhsen, and Johnston attended the Coastal Communities Outreach Open House in Alvin. General stormwater pollution prevention information was disseminated, including the stormwater quality brochure, Trash Bash materials, and pet waste bag dispensers.</p> <p><u>Texas Stream Team outreach activities included:</u> 07/10/18 – Phase III certifications were completed by Pete and Peggy Romfh</p>

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				<p><i>for two monitors for two Brazoria County sites in Bastrop Bayou.</i></p> <p><i>07/28/18 – Begley did a “trainer” certification for Texas Stream Team and a Phase III certification.</i></p> <p><i>08/08/18 – Begley published the Texas Stream Team Newsletter. It was sent via email to 389 and opened by 141. It is also posted to the H-GAC website.</i></p> <p><i>08/12/18 – Phase III certifications were completed by Steve and Lisa Murray for two monitors for two Panther Branch sites.</i></p>
		12/15/18		
		3/15/19		
		6/15/19		
		8/31/19		
Task 7	Special Projects (N/A)	N/A	N/A	N/A