

# **Amendment #6 to the Houston-Galveston Area Council Clean Rivers Program FY 2016/2017 Quality Assurance Project Plan**

## ***Biological Monitoring at Selected Locations in the H-GAC Region***

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**Prepared by the Houston-Galveston Area Council  
(H-GAC) in cooperation with the Texas Commission on  
Environmental Quality (TCEQ)**

**Effective: Immediately upon approval by all parties**

**Questions concerning this QAPP should be directed to:**

**Jean Wright (H-GAC Representative)**

**Quality Assurance Officer**

**P.O. Box 22777**

**Houston, Texas 77227-2777**

**(713) 499-6660**

**[jean.wright@h-gac.com](mailto:jean.wright@h-gac.com)**

## **SS-A1 Approval Page**

### ***Texas Commission on Environmental Quality***

### **Water Quality Planning Division**

***Electronically signed 8/1/2017***

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Sarah Eagle, Work Leader Clean Rivers Program	Date
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***Electronically signed 8/1/2017***

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Kelly Rodibaugh Project Manager & Project Quality Assurance Specialist Clean Rivers Program	Date
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***Electronically signed 8/1/2017***

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Cathy Anderson Team Leader Data Management and Analysis Team	Date
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### **Monitoring Division**

***Electronically signed 8/1/2017***

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Sharon Coleman Acting Lead CRP Quality Assurance Specialist Laboratory and Quality Assurance Section	Date
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## ***Houston-Galveston Area Council (H-GAC)***

***Electronically signed 8/1/2017***

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Todd Running  
H-GAC Project Manager

Date

***Electronically signed 8/1/2017***

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Jean Wright  
H-GAC Quality Assurance Officer

Date

The H-GAC will secure written documentation from each sub-tier project participant (e.g., subcontractors, other units of government) stating the organization's awareness of and commitment to requirements contained in this quality assurance project plan and any amendments or added appendices of this plan. Alternatively, additional signature blocks for primary sub-tier participants have been added to section A1. Signatures in section A1 will eliminate the need to adherence letters to be maintained. The H-GAC will maintain this documentation as part of the project's quality assurance records, and will ensure the documentation is available for review.

**ENVIRONMENTAL INSTITUTE OF HOUSTON –  
UNIVERSITY OF HOUSTON CLEAR LAKE (EIH)**

***Electronically signed 8/1/2017***

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Dr. George Guillen  
EIH CRP Project Manager

Date

***Electronically signed 8/1/2017***

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Jenny Oakley  
EIH Field Quality Assurance Officer

Date

## **SS-A3 Distribution List**

**Texas Commission on Environmental Quality  
P.O. Box 13087  
Austin, Texas 78711-3087**

Kelly Rodibaugh, Project Manager  
Clean Rivers Program  
MC-234  
(512) 239-1739

Sharon Coleman  
Acting Lead CRP Quality Assurance Specialist  
MC-165  
(512) 239-6340

Cathy Anderson  
Team Leader, Data Management and Analysis Team  
MC-234  
(512) 239-1805

**Houston-Galveston Area Council  
3555 Timmons Lane, Suite 120  
Houston, Texas 77027**

Todd Running, Project Manager  
(713) 993-4549

Jean Wright, Quality Assurance Officer  
(713) 499-6660

The Houston-Galveston Area Council will provide copies of this project plan and any amendments or appendices of this plan to each person on this list and to each sub-tier project participant, e.g., subcontractors, other units of government. H-GAC will document distribution of the plan and any amendments and appendices, maintain this documentation as part of the project's quality assurance records, and will ensure the documentation is available for review.

Sub-Tier Participating Organizations to receive copies of the Appendix include: The Environmental Institute of Houston and Eastex Environmental Laboratory

## **SS-A4 PROJECT/TASK ORGANIZATION**

### **Description of Responsibilities**

#### **TCEQ**

**Sarah Eagle**

**CRP Work Leader**

As described in the FY2016-2017 basin-wide QAPP, Section A4.

**Sharon R. Coleman**

**Acting Lead CRP Quality Assurance Specialist**

As described in the FY2016-2017 basin-wide QAPP, Section A4.

**Kelly Rodibaugh**

**CRP Project Manager & Project Quality Assurance Specialist**

As described in the FY2016-2017 basin-wide QAPP, Amendment #1.

**Peter Bohls**

**CRP Data Manager**

As described in the FY2016-2017 basin-wide QAPP, Section A4.

#### **Houston-Galveston Area Council (H-GAC)**

**Todd Running**

**H-GAC Project Manager**

As described in the FY2016-2017 basin-wide QAPP, Section A4.

**Jean Wright**

**H-GAC Quality Assurance Officer**

As described in the FY2016-2017 basin-wide QAPP, Section A4.

**Bill Hoffman**

**H-GAC Data Manager**

As described in the FY2016-2017 basin-wide QAPP, Section A4.

## **Environmental Institute of Houston (EIH) University of Houston Clear Lake (UHCL)**

**Dr. George Guillen**

**EIH CRP Project Manager, Field Supervisor and CRP Quality Assurance Officer**

As described in the FY2016-2017 basin-wide QAPP, Section A4.

**Jenny Oakley**

**CRP Data Manager & Field QAO**

As described in the FY2016-2017 basin-wide QAPP, Section A4.

## **Justification**

This document details the changes made to H-GAC's multi-basin Quality Assurance Project Plan (QAPP) to change Appendix B and Appendix K for one of the biological monitoring events of fiscal year 2017. During the first sampling event at Monitoring Station 11148, EIH (a contractor for H-GAC), identified unsafe conditions at the station. This amendment replaces station 11148 and drops the unsafe station from the monitoring schedule. The new monitoring site will provide valuable monitoring data without endangering the health and safety of monitoring staff.

## **Summary of Changes**

One monitoring site location in the FY2017 Coordinated Monitoring Schedule was sampled once by EIH and subsequently determined by EIH to be unsafe. The unsafe station will be dropped from the Coordinated Monitoring Schedule and a replacement station will be added to the monitoring schedule. These changes will be effective for samples being collected in FY2017.

The following information in Appendix B is amended to reflect changes to:

- Monitoring Sites table B1.1
- Map of sampling sites
- Appendix K of the FY16-17 H-GAC CRP QAPP

## **Detail of Changes**

### ***Sample Design Rationale FY 2017***

The following items were changes made to the Houston-Galveston Area Council (HG) monitoring schedule:

- ADD biological monitoring site 11331 – CYPRESS CREEK AT SH 249

The following items were changes made to the Houston-Galveston Area Council (H-GAC) monitoring

schedule:

- DROP biological monitoring site 11148 – LITTLE WHITE OAK BAYOU AT TRIMBLE STREET/NORTH EDGE OF HOLLYWOOD CEMETERY IN HOUSTON

There will be no changes in frequency of sample collection or parameters analyzed.

The removed site was sampled one time during FY2017. Therefore, the new site will be monitored and sampled 1 time during the remainder of FY2017. All other partner sites, monitoring frequencies, and parameters collected will remain the same.



## Monitoring Sites Table

The data collection design is summarized in Table B1.1 (Sample Design and Schedule) and Figure SS-B1 (Sample Site Maps). See Table A7.1 for a list of all parameters being collected under each category.

## Sample Design Rationale and Site Selection Criteria

Biological sampling will be conducted twice during the Index/Critical Period of 2017 at two monitoring sites located on Assessment Units (AU) that are on the 303d List for concerns or impairments of one or more aquatic life use category. Each of these locations has been identified as needing additional or more current information to reassess the AU. Each of the locations selected will have field, flow, bacteria, and conventional lab parameters collected plus diel monitoring conducted along with habitat, microbenthic community and fish community assessments.

**Table B1.1 Sample Design and Schedule, Remainder of FY 2017**

Site Description	Station ID	Waterbody ID	Region	SE	CE	MT	24 hr DO	AqHab	Benthics	Nekton	Metal Water	Organic Water	Metal Sed	Organic Sed	Conventional Lab	Amb Tox Water	Amb Tox Sed	Bacteria	Flow	Fish Tissue	Field	Comments	
MILL CREEK AT FM 149, NORTH OF TOMBALL	21957	1008A	12	HG	UI	BS	1	1	1	1					1			1	1			1	This special project is for FY2017 only
LITTLE WHITE OAK BAYOU AT TRIMBLE STREET/NORTH EDGE OF HOLLYWOOD CEMETERY IN HOUSTON	11148	1013A	12	HG	UI	BS	2	2	2	2					2			2	2			2	This special project is for FY2017 only
CYPRESS CREEK AT SH 249	11331	1009	12	HG	UI	BS	1	1	1	1					1			1	1			1	This special project is for FY2017 only

# Maps

The attached map will replace the previous map in Appendix C.

**Figure SS-B1b.** Sampling Station 11331 located on Cypress Creek at FM 249.

