

# 2025 BIG Implementation Status

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## Responsible Parties and Common Abbreviations

A&M - TX AgriLife, Texas Water Research Institute, Extension, Forest Service

AA - TCEQ Designated Authorized Agent for OSSF Management

BMPs - Best Management Practices

COH - City of Houston

GBF - Galveston Bay Foundation

HARC - Houston Advanced Research Center

HC - Harris County

HCFCDD - Harris County Flood Control District

H-GAC - Houston-Galveston Area Council

JTF - Joint Task Force (HC, HCFCDD, COH)

MS4 - Municipal Separate Storm Sewer System (Phase I and II)

NRCS - Natural Resource Conservation Service

OSSF - Onsite Sewage Facilities

SSO - Sanitary Sewer Overflows

TCEQ - Texas Commission on Environmental Quality

TPWD - Texas Parks and Wildlife Department

TSSWCB - Texas State Soil and Water Conservation Board

WISE - Water Innovation Strategy of Excellence Awards

WWTFs - Wastewater Treatment Facilities

## Management Measures

### Implementation Strategy 1: Wastewater Treatment Facilities

Responsible Party	Implementation Measure	Metric	Implementation Milestone	Status
H-GAC	1.1. More Rigorous Monitoring	<ul style="list-style-type: none"> <li>Track frequencies observed by DMRs and evaluate effectiveness.</li> <li>Host WWTF workshop annually</li> </ul>	<ul style="list-style-type: none"> <li>Annual WWTF DMR Assessment</li> <li>Number of attendees; 1 workshop per year.</li> </ul>	
H-GAC	1.2. Track Use of Strict Bacteria Limit	<ul style="list-style-type: none"> <li>Track #WWTFs with a permit limit of 63 cfu/100 mL.</li> </ul>	<ul style="list-style-type: none"> <li>Annual WWTF DMR Assessment</li> </ul>	

TMDL Implementation Status

Responsible Party	Implementation Measure	Metric	Implementation Milestone	Status
H-GAC, HC Pollution Control	1.3. Enhance WWTF Compliance	<ul style="list-style-type: none"> <li>▪ Track WWTF compliance through their DMRs and Harris County Pollution Control Inspections</li> <li>▪ Host WWTF workshop annually</li> </ul>	<ul style="list-style-type: none"> <li>▪ Annual WWTF DMR/HC data Assessment</li> <li>▪ Number of attendees; 1 workshop per year.</li> </ul>	
H-GAC, HC	1.4. Improve Design and Operation Criteria	<ul style="list-style-type: none"> <li>▪ Capture HC Design Criteria Review. Review of TCEQ Central Registry</li> <li>▪ Host WWTF workshop annually</li> </ul>	<ul style="list-style-type: none"> <li>▪ Annual Assessment of HC and Central Registry</li> <li>▪ Number of attendees; 1 workshop per year.</li> </ul>	
H-GAC, HC	1.5. Upgrade Facilities	<ul style="list-style-type: none"> <li>▪ Capture HC Design Criteria Review. Review of TCEQ Central Registry</li> <li>▪ Host WWTF workshop annually</li> </ul>	<ul style="list-style-type: none"> <li>▪ Annual Assessment of HC and Central Registry</li> <li>▪ Number of attendees; 1 workshop per year.</li> </ul>	
H-GAC, HC, COH	1.6. Consider Regionalization of WWTFs.	<ul style="list-style-type: none"> <li>▪ Track reported plant consolidation - HC, City of Houston</li> <li>▪ Host WWTF workshop annually</li> </ul>	<ul style="list-style-type: none"> <li>▪ Annual Assessment of plant consolidations</li> <li>▪ Number of attendees; 1 workshop per year</li> </ul>	
H-GAC	1.7. Use of Treated Effluent	<ul style="list-style-type: none"> <li>▪ Track the # of applications via TCEQ Central Registry and/or via Monitoring Effluent Reports</li> <li>▪ Host WWTF workshop annually</li> </ul>	<ul style="list-style-type: none"> <li>▪ Annual Assessment of applications and/or reports</li> <li>▪ Number of attendees; 1 workshop per year</li> </ul>	

**Implementation Strategy 2: Sanitary Sewer Service**

Responsible Party	Implementation Measure	Metric	Implementation Milestone	Status
H-GAC, Utility Districts	2.1. Utility Asset Management Programs	<ul style="list-style-type: none"> <li>▪ If data is available, track # WWTFs reporting life-cycle management</li> <li>▪ Host WWTF workshop annually</li> </ul>	<ul style="list-style-type: none"> <li>▪ Number of attendees; 1 workshop per year</li> </ul>	
H-GAC, MS4s	2.2. Address Fats, Oils, Grease, and Wipes	<ul style="list-style-type: none"> <li>▪ Track # of MS4 programs addressing</li> <li>▪ Track # SSOs</li> <li>▪ Host WWTF workshop annually</li> </ul>	<ul style="list-style-type: none"> <li>▪ Measure activities - # programs, residents, etc.</li> <li>▪ #SSOs</li> <li>▪ Number of attendees; 1 workshop per year</li> </ul>	
H-GAC, Utility Districts	2.3. Maintenance of Lift Stations	<ul style="list-style-type: none"> <li>▪ Track # SSOs at lift stations</li> <li>▪ Host WWTF workshop annually</li> </ul>	<ul style="list-style-type: none"> <li>▪ #SSOs</li> <li>▪ Number of attendees; 1 workshop per year</li> </ul>	
H-GAC	2.4. Improve Reporting of SSOs	<ul style="list-style-type: none"> <li>▪ Track # SSOs - Electronic Reporting of SSOs</li> <li>▪ Host WWTF workshop annually</li> </ul>	<ul style="list-style-type: none"> <li>▪ #SSOs</li> <li>▪ Number of attendees; 1 workshop per year</li> </ul>	
H-GAC	2.5. Strengthen Controls of Subscriber Systems	<ul style="list-style-type: none"> <li>▪ Track # SSOs</li> <li>▪ Host WWTF workshop annually</li> </ul>	<ul style="list-style-type: none"> <li>▪ #SSOs</li> <li>▪ Number of attendees; 1 workshop per year</li> </ul>	

**Implementation Strategy 3: OSSF**

Responsible Party	Implementation Measure	Metric	Implementation Milestone	Status
H-GAC, AA	3.1. Identify and Address Failing Systems	<ul style="list-style-type: none"> <li>Completed Map; #OSSFs by Segment and AU; Regional Plan</li> </ul>	<ul style="list-style-type: none"> <li>Annual OSSFs map update; Annual # of OSSFs pumped out, repaired, replaced, or abandoned; Grimes and San Jacinto County data year 2; Regional Plan - year 3; Re-evaluate Regional Plan - year 10</li> </ul>	
H-GAC, AA	3.2. Address Inadequate Maintenance of OSSFs	<ul style="list-style-type: none"> <li>Updated website; Real Estate/Inspector Workshop; Homeowner Workshop</li> </ul>	<ul style="list-style-type: none"> <li>Update website annually, Real Estate/Inspector Workshop biennially; Homeowner Workshop annually</li> </ul>	
H-GAC, AA	3.3. Legislation and Other Regulatory Actions	<ul style="list-style-type: none"> <li>Identification and evaluation of legislative rule changes and other regulatory actions.</li> </ul>	<ul style="list-style-type: none"> <li>Annual Report, workshop, website update</li> </ul>	

**Implementation Strategy 4: Stormwater**

Responsible Party	Implementation Measure	Metric	Implementation Milestone	Status
H-GAC; MS4 Programs	4.1. Continue Existing MS4 Programs	<ul style="list-style-type: none"> <li>Track implementation of existing programs</li> <li>Host Stormwater Workshop annually</li> </ul>	<ul style="list-style-type: none"> <li>Assess MS4 programs - Review of TCEQ Electronic System</li> <li>Number of attendees; 1 workshop per year</li> </ul>	
H-GAC, HCFC, COH, HARC, HARC, TX AgriLife	4.2. Model BMPs	<ul style="list-style-type: none"> <li>LID Tracker</li> <li>WISE Awards</li> <li>Host Stormwater Workshop annually</li> </ul>	<ul style="list-style-type: none"> <li>Update Tracker Annually</li> <li>Annual WISE Awards</li> <li>Number of attendees; 1 workshop per year</li> </ul>	

<b>Responsible Party</b>	<b>Implementation Measure</b>	<b>Metric</b>	<b>Implementation Milestone</b>	<b>Status</b>
H-GAC; MS4 Programs	4.3. Encourage Expansion of Stormwater Programs	<ul style="list-style-type: none"> <li>▪ Track Programs</li> <li>▪ Host Stormwater Workshop annually</li> </ul>	<ul style="list-style-type: none"> <li>▪ Review of TCEQ Electronic System</li> <li>▪ Annual WISE Awards</li> <li>▪ Number of attendees; 1 workshop per year</li> </ul>	
H-GAC; MS4 Programs	4.4. Promote Recognition Programs	<ul style="list-style-type: none"> <li>▪ WISE Awards</li> <li>▪ Other Programs</li> </ul>	<ul style="list-style-type: none"> <li>▪ Promote WISE Awards</li> <li>▪ Promote Other Programs</li> </ul>	
H-GAC; MS4 Programs	4.5. Programmatic Outreach	<ul style="list-style-type: none"> <li>▪ Track Programs establishing outreach and incentives</li> <li>▪ Host Stormwater Workshop annually</li> </ul>	<ul style="list-style-type: none"> <li>▪ Document and promote incentive programs</li> <li>▪ Number of attendees; 1 workshop per year</li> </ul>	
H-GAC; MS4 Programs	4.6. Establish BMP Incentive Programs	<ul style="list-style-type: none"> <li>▪ Track Programs establishing outreach and incentives</li> <li>▪ Host Stormwater Workshop annually</li> </ul>	<ul style="list-style-type: none"> <li>▪ Document and promote incentive programs</li> <li>▪ Number of attendees; 1 workshop per year</li> </ul>	

**Implementation Strategy 5: Construction**

<b>Responsible Party</b>	<b>Implementation Measure</b>	<b>Metric</b>	<b>Implementation Milestone</b>	<b>Status</b>
H-GAC; MS4 Programs	5.1. Encourage Increased Compliance and Enforcement of Stormwater Permits	<ul style="list-style-type: none"> <li>▪ Track implementation of existing programs</li> <li>▪ Host Stormwater Workshop annually</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assess MS4 programs - Review of TCEQ Electronic System</li> <li>▪ Number of attendees; 1 workshop per year</li> </ul>	

**Implementation Strategy 6: Illicit Discharges and Dumping**

Responsible Party	Implementation Measure	Metric	Implementation Milestone	Status
H-GAC, Bayou Preservation Association, local jurisdictions, MS4s	6.1. Encourage Local Jurisdictions to Detect and Eliminate Illicit Discharges	<ul style="list-style-type: none"> <li>Local Reports; Meetings and Workshops</li> </ul>	<ul style="list-style-type: none"> <li>Local Reports - annually; Meetings - minimum 5 per year; Workshops - minimum annually</li> </ul>	
H-GAC, MS4s	6.2. Improve Regulation and Enforcement of Illicit Discharges	<ul style="list-style-type: none"> <li>Environmental Enforcement Workshop</li> </ul>	<ul style="list-style-type: none"> <li>Workshop - annually</li> </ul>	
H-GAC, MS4s	6.3. Monitor and Control Waste Hauler Activities	<ul style="list-style-type: none"> <li>Track MS4 programs</li> </ul>	<ul style="list-style-type: none"> <li>Annually report on MS4 waste hauler programs</li> </ul>	
H-GAC, GBF	6.4. Boater Wastes	<ul style="list-style-type: none"> <li># Outreach Events, # Pump Stations</li> </ul>	<ul style="list-style-type: none"> <li>Annually report on efforts to address boater wastes</li> </ul>	

**Implementation Strategy 7: Agriculture, Animal, and Silviculture Sources**

Responsible Party	Implementation Measure	Metric	Implementation Milestone	Status
H-GAC, TSSWCB, Texas A&M Forest Service, NRCS, Texas A&M AgriLife Extension Service	7.1. Promote Increased Participation in Existing Programs for Erosion Control, Nutrient Reduction, and Livestock Management	<ul style="list-style-type: none"> <li>Program Outreach, BMP projects, Area under a program (WQMP, CAP, EQIP, etc.).</li> </ul>	<ul style="list-style-type: none"> <li>Annual workshop</li> </ul>	
H-GAC, Texas AgriLife Extension Service	7.2. Promote the Management of Feral Hog Populations	<ul style="list-style-type: none"> <li>Program Outreach, Removal projects, changes to control measures</li> </ul>	<ul style="list-style-type: none"> <li>Annual workshop</li> </ul>	

**Implementation Strategy 8: Residential**

Responsible Party	Implementation Measure	Metric	Implementation Milestone	Status
H-GAC, MS4 Programs, GBF, Texas AgriLife, JTF	8.1. Expand Homeowner Education Efforts Throughout the BIG Project Area	<ul style="list-style-type: none"> <li>Program Outreach and Event Tracking; Review MS4 Activities</li> </ul>	<ul style="list-style-type: none"> <li>Annual workshop</li> </ul>	

**Implementation Strategy 9: Monitoring and I-Plan Revision**

Responsible Party	Implementation Measure	Metric	Implementation Milestone	Status
H-GAC	9.1. Continue to Utilize Ambient Water Quality Monitoring and Data Analysis	<ul style="list-style-type: none"> <li>Data and graphical analysis, including AU level, assessing ambient data for use in decision making and within the Annual Report and/or Regional Implementation Database.</li> </ul>	<ul style="list-style-type: none"> <li>Data analysis completed annually</li> </ul>	
H-GAC, HCFCs, HARC, TX AgriLife, Academia, COH	9.2. Conduct and Coordinate Non-Ambient Water Quality Monitoring	<ul style="list-style-type: none"> <li>Annually assess Targeted Monitoring Programs, encourage uploading to HCFCD Stormwater Database, Create the H-GAC Targeted Monitoring Database</li> </ul>	<ul style="list-style-type: none"> <li># and Type of Targeted Monitoring Programs/year; # of Uploads to databases</li> </ul>	
H-GAC, HARC	9.3. Create and Maintain a Regional Implementation Activity Database	<ul style="list-style-type: none"> <li>Updates to the Regional Implementation Activity Database</li> </ul>	<ul style="list-style-type: none"> <li>Annual update to the Regional Implementation Activity Database</li> </ul>	
H-GAC	9.4. Assess Monitoring Results and Modify I Plan	<ul style="list-style-type: none"> <li>Reportable Actions; Annual Report; Review I-Plan for Updates</li> </ul>	<ul style="list-style-type: none"> <li># of actions reported and assess/year; Annual Report</li> </ul>	

**Implementation Strategy 10: Research**

Responsible Party	Implementation Measure	Metric	Implementation Milestone	Status
H-GAC, COH, HCFC, HARC, TX AgriLife	10.1. Evaluate the Effectiveness of Stormwater Implementation Activities	<ul style="list-style-type: none"> <li>Completed Effectiveness Studies</li> </ul>	<ul style="list-style-type: none"> <li>Effectiveness Studies - minimum of 1 every five years</li> </ul>	
H-GAC	10.2. Further Evaluate Bacteria Persistence and Regrowth	<ul style="list-style-type: none"> <li>N/A</li> </ul>	<ul style="list-style-type: none"> <li>N/A</li> </ul>	Complete
H-GAC, Academia, TCEQ, EPA	10.3. Determine Appropriate Indicators	<ul style="list-style-type: none"> <li>Topic related workshop; review of indicator research</li> </ul>	<ul style="list-style-type: none"> <li>Workshop - minimum of 2 every five years</li> </ul>	
H-GAC, Academia, TCEQ, EPA	10.4. Additional Research Topics	<ul style="list-style-type: none"> <li>Topic related workshop; review of research; maintained prioritized list</li> </ul>	<ul style="list-style-type: none"> <li>Workshop - minimum of 2 every five years; Annual research priority list</li> </ul>	

**Implementation Strategy 11: Geographic Priority Framework**

Responsible Party	Implementation Measure	Metric	Implementation Milestone	Status
H-GAC, Project Area Stakeholders	11.1. Consider recommended criteria when selecting geographic locations for projects	<ul style="list-style-type: none"> <li>Completed Geometric Mean List</li> </ul>	<ul style="list-style-type: none"> <li>Annually prepare geometric mean list</li> </ul>	

## Control Actions – None at this time

### Control Action 1: **Name of Action**

Responsible Party	Control Action	Implementation Milestone	Status
	1.1.		
	1.2.		
	1.3.		

## Summary of Implementation