

We work for your water

# CIP Open House

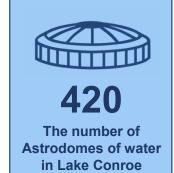
April 26, 2023

### Agenda

- Overview of SJRA
- Doing Business with SJRA
- Review of Project Opportunities
  - Lake Conroe
  - Bear Branch
  - Highlands
  - Flood Management
  - Raw Water Enterprise
  - GRP
  - Woodlands
- Questions
- Wrap Up



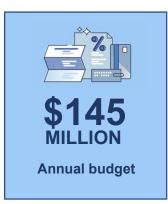


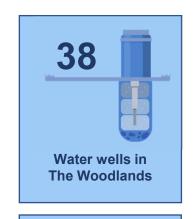




**Employees** 







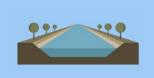




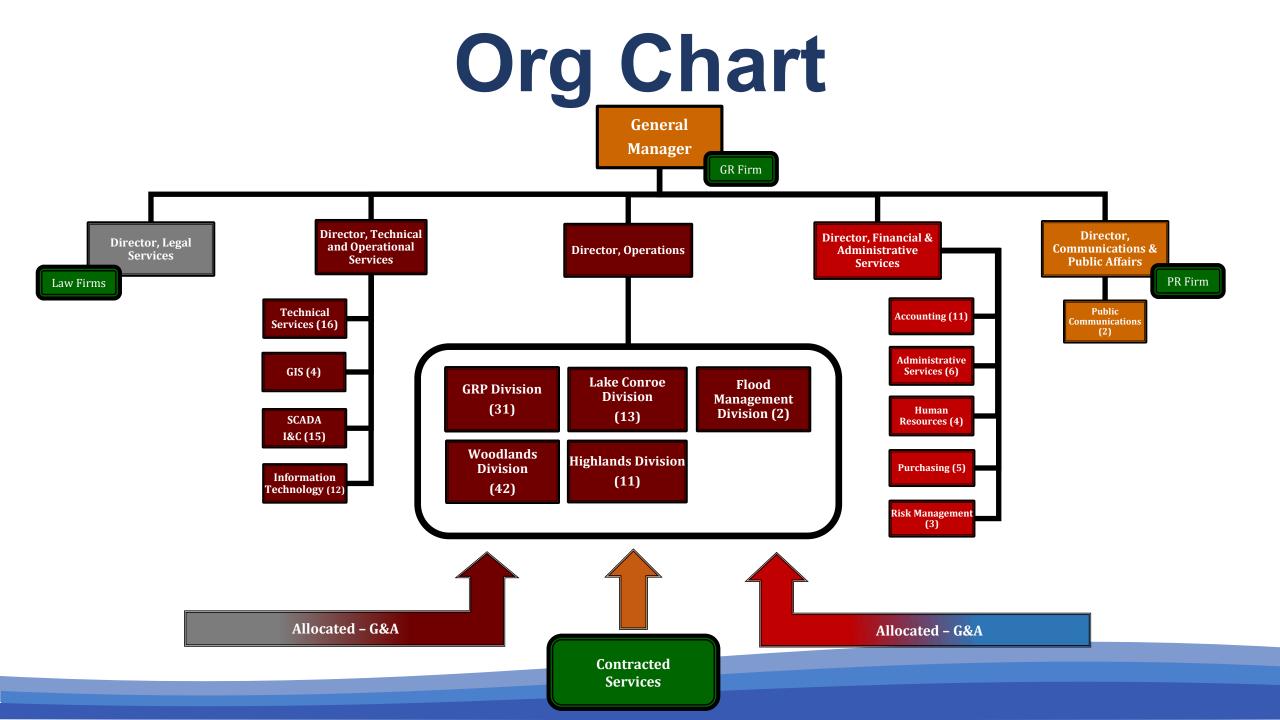


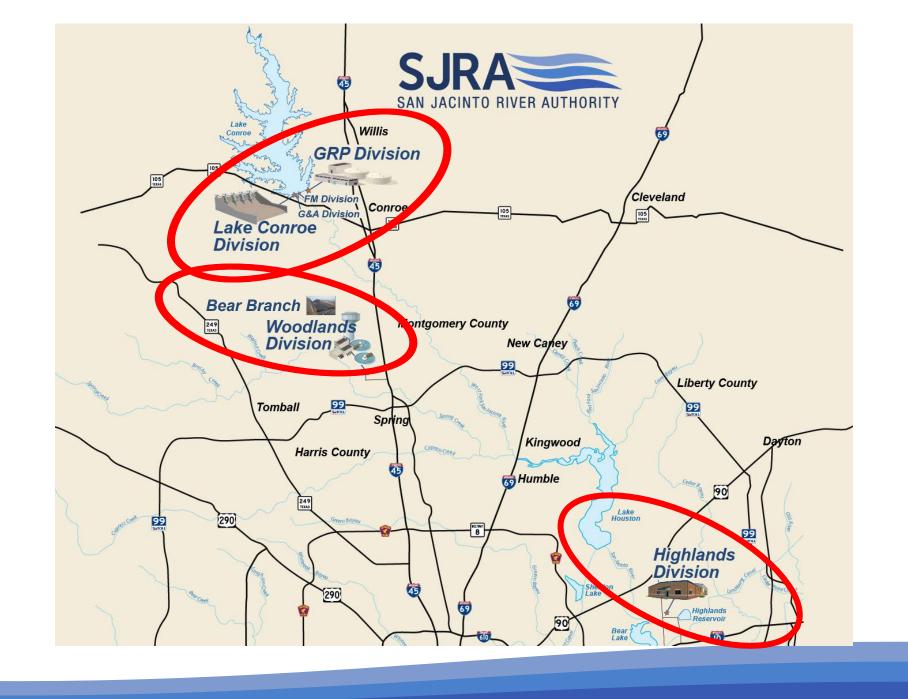






27
Miles of canal in the Highlands





• SJRA's Fiscal Year: **September 1**st – **August 31**st



• 10-Year Project Plans - <a href="https://www.sjra.net/about/financial/">https://www.sjra.net/about/financial/</a>



#### Lake Conroe Project Summary

Lake Conroe Division FY 2023 - FY 2032 Projects

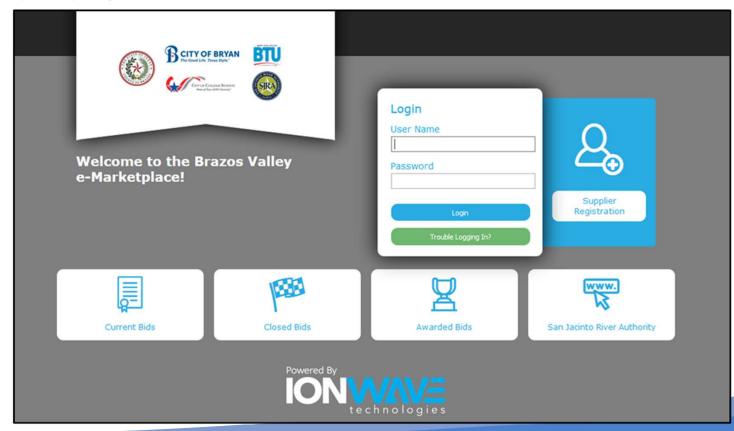
PAGE NO.	PROJECT ID	PROJECT NAME	EXPEN	MATED NDITURES GH END OF 2022	2023 ESTIMATE		024 IMATE	2025 ESTIMATE	2026 ESTIMATE	2027 ESTIMATE	2028 ESTIMATE	2029 ESTIMATE	2030 ESTIMATE	2031 ESTIMATE	2032 ESTIMATE	тот	TAL
4	LCSVC	Service Outlet Sluice Gate Rehabilitation	\$	107,500	\$ 203,500	5	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3	311,000
5	LCWEF	West End Facility Improvements	5	74,303	\$ 310,000	5	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3	384,303
6	LCMFI	Maintenance Facilities Improvements	5	650,419	\$ 3,150,000	5 1,0	,070,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,8	870,419
7	LCMON	Lake Conroe Dam Survey Monumentation	\$	- !	\$ 35,000	5	-	\$ -	\$ -	\$ -	5 -	\$ -	\$ -	\$ -	\$ -	\$	35,000
8	LCGHR	Lake Conroe Gate House Rehabilitation	\$	- !	\$ 57,000	5 2	216,000	\$ -	\$ -	\$ -	5 -	\$ -	\$ -	\$ -	\$ -	\$ 2	273,000
9	LCLWC	Low Water Crossing	5	- !	\$ 12,000	5	45,000	\$ -	\$ -	\$ -	5 -	\$ -	\$ -	\$ -	\$ -	\$	57,000
10	LCEAP	Lake Conroe Dam Emergency Action Plan	\$	- 5	\$ 50,000	5	-	\$ -	\$ -	\$ -	\$ 60,000	5 -	\$ -	\$ -	\$ -	\$ 1	110,000
11		Water Conservation and Drought Contingency Plans	\$	- !	\$ -	5	20,000	\$ -	\$ -	\$ -	5 -	\$ 30,000		\$ -	\$ -		50,000
12	LCPIZ	Piezometer Replacement	\$	· .	\$ -	5	-	\$ 80,000	\$ -	\$ -	\$ -	5 -	\$ 92,000	\$ -	\$ -		172,000
13	LCNBD	Lake Conroe Division Boat Dock	\$	- !	\$ -	5	-	\$ 100,000	\$ -	5 -	\$ -	\$ -	\$ -	\$ -	\$ -		100,000
14	LCEVL	Lake Conroe Dam Comprehensive Evaluation	5	- !	\$ -	\$	- 1	\$ -	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		200,000
15	LWEDR	West End Dock Replacement	\$	* 5	\$ -	5	-	\$ -	\$ -	\$ 310,000	5 -	\$ -	\$ -	\$ -	\$ -	\$ 3	310,000
16		Main Spillway Gate Rehabilitation	\$	* !	\$ -	5	-	\$ -	\$ -	\$ 432,000	\$ 2,394,000	\$ 1,197,000	5 -	\$ -	\$ -		023,000
17	LCDRR	Lake Conroe Dam Road Repair	\$	90,000	\$ -	5	-	\$ -	\$ -	\$ -	\$ 90,000	\$ 980,000	\$ -	\$ -	\$ -	\$ 1,10	160,000
18	LCSUR	Drainage System Rehabilitation	\$	- !	\$ -	5	-	\$ -	\$ -	\$ -	\$ -	\$ 170,000	\$ 1,320,000	\$ -	\$ -	\$ 1,49	490,000
19	LCWS2	Westside Diversion Channel Improvements	5	- !	\$ -	\$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 300,000	\$ 1,079,000	\$ 1,079,000	\$ 2,4	458,000
20	LCDMI	Lake Conroe Dam Inspection	\$	4 5	\$ -	\$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 80,000	\$ -	5	80,000
21	LCVOS	Lake Conroe Volumetric Survey	\$	76,100	\$ -	5	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 137,000	\$ -	\$ 2	213,100
	TOTALS	5	\$	998,322	\$ 3,817,500	\$ 1,3	351,000	\$ 180,000	\$ 200,000	\$ 742,000	\$ 2,544,000	\$ 2,377,000	\$ 1,712,000	\$ 1,296,000	\$ 1,079,000	\$ 16,29	.96,822
1																	

Brazos Valley e-Marketplace

Registration

**Steps to Register** 

Use of CIVCAST







#### **Procurement of Professional Services**

- Professional Services Agreement (PSA)
  - Project specific
- Master Professional Services Agreement (MPSA)
  - Specific to a certain type of services (survey, geotechnical, electrical, etc.)

Professional Services Procurement Tiers							
< \$25k	No formal or informal solicitation required						
>\$25k and ≤ \$75k	Informal RFQ or use MPSA						
>\$75k and construction estimated ≤ \$1M	Project Specific RFQ or MPSA						
>\$75k and construction estimated > \$1M	Project Specific RFQ						

#### **Procurement of Construction Services**

Construction Procurement Tiers						
Construction Estimated ≤ \$75k	<ul> <li>Request for Quotes (solicited from minimum 3 contractors)</li> <li>Minor Construction Services Agreement</li> </ul>					
Construction >\$75k	<ul> <li>Competitive Sealed Proposals</li> <li>Major Construction Services Agreement</li> <li>Minor Construction Services Agreement (≤\$400k)</li> </ul>					

### Request for Qualifications (RFQ)

(Professional Services)



## Competitive Sealed Proposals (CSP)

(Construction Services)

#### **CSP Typical Evaluation Criteria**

**Proposed Project Cost** 

Organization and Business Information

Experience/Past Performance w/ Similar Projects

Experience and Qualifications of Key Personnel

Project Approach

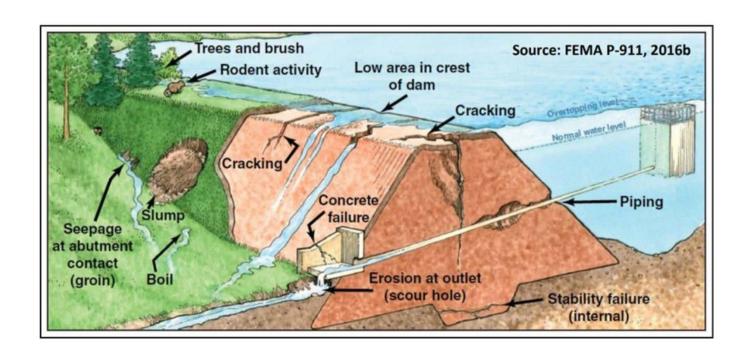
Safety Program

Litigation, Claims Compliance

**Potential Interviews** 

# **MPSA Opportunities**

#### Dam Safety





**Texas Dam Safety Program** 

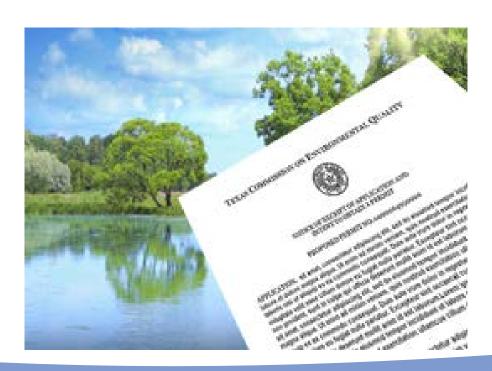
- Dam Safety
- Materials Testing

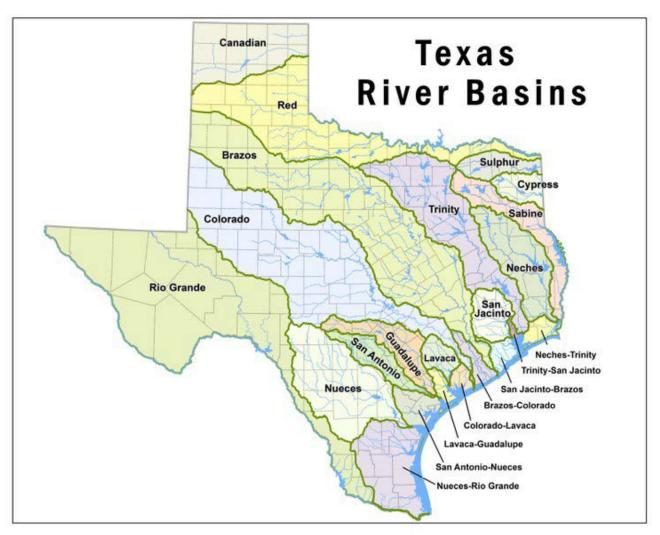






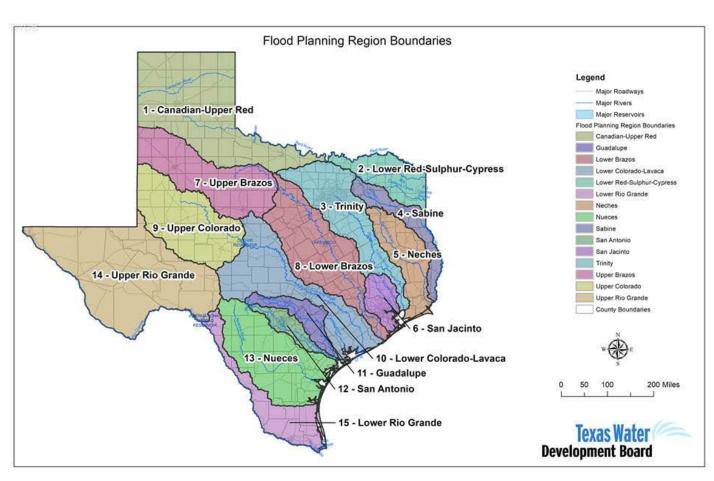
- Dam Safety
- Materials Testing
- Water Strategy





- Dam Safety
- Materials Testing
- Water Strategy
- Flood ManagementSupport Services





- Dam Safety
- Materials Testing
- Water Strategy
- Flood Management Support Services
- Industrial Pretreatment

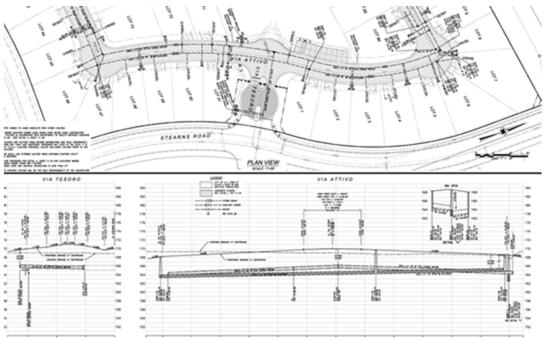




#### MPSAs - Wave 2 (June 2023)

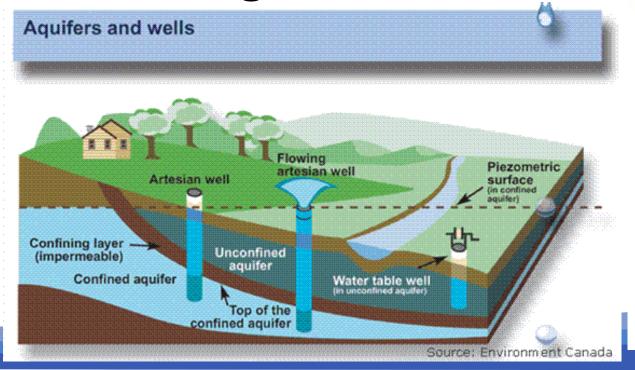
Civil Engineering Support

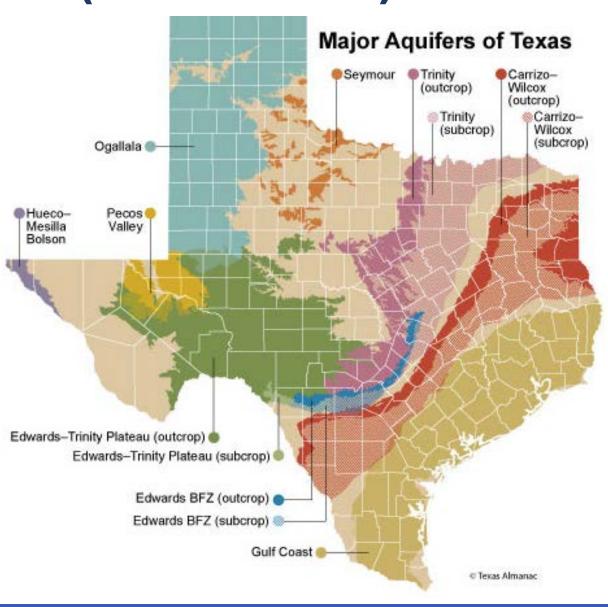




### MPSAs - Wave 2 (June 2023)

- Civil Engineering Support
- Hydrogeology and Groundwater Management





## MPSAs – Wave 3 (August 2023)

Electrical Engineering

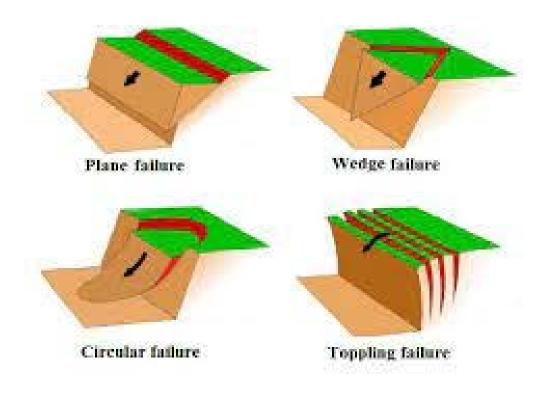




#### MPSAs – Wave 4 (September 2023)

#### Geotechnical Engineering





#### MPSAs – Wave 4 (September 2023)

- Geotechnical Engineering
- Regulatory Support Services





#### MPSAs – Future Waves (TBD 2024)

- MEP
- Structural
- CM&I
- W/WW Planning
- Staff Augmentation

#### **MPSA RFQ Summary**

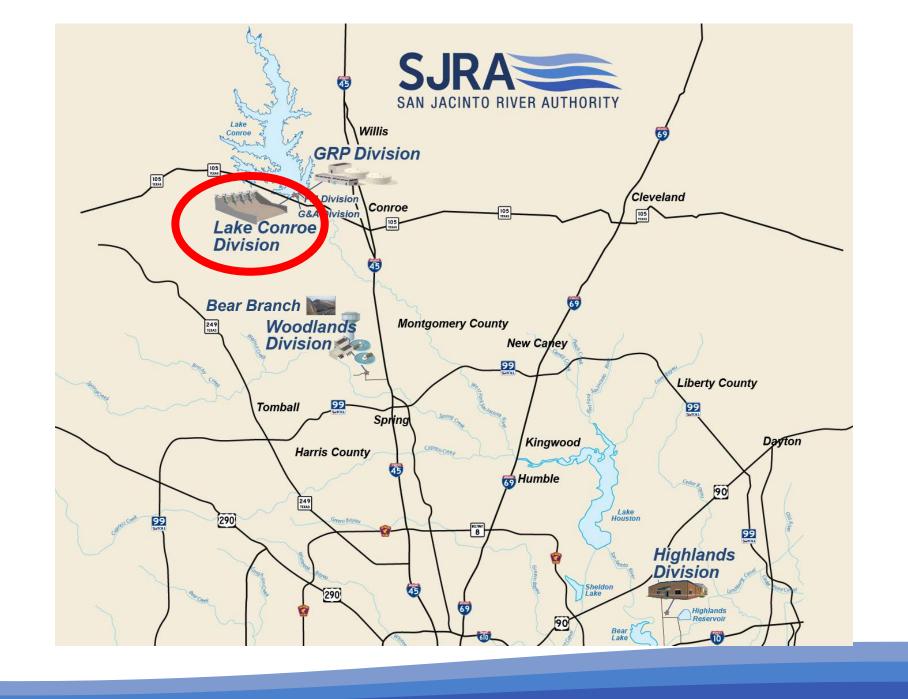








## **Project Opportunities**





# Professional Services Projects (Lake Conroe)

#### **STAY TUNED**



# Construction Services Projects (Lake Conroe)

#### **Service Outlet Electrical**

#### **Classification:**

Electrical

**Schedule:** 3<sup>rd</sup> Quarter 2023



**Construction Budget:** \$250,000

#### **Maintenance Facility Improvements**

#### **Classification:**

- Building Construction
- Utilities
- Earthwork

Schedule: 1st Quarter 2024

Construction Budget: \$5,640,000



#### **Lake Conroe Summary**

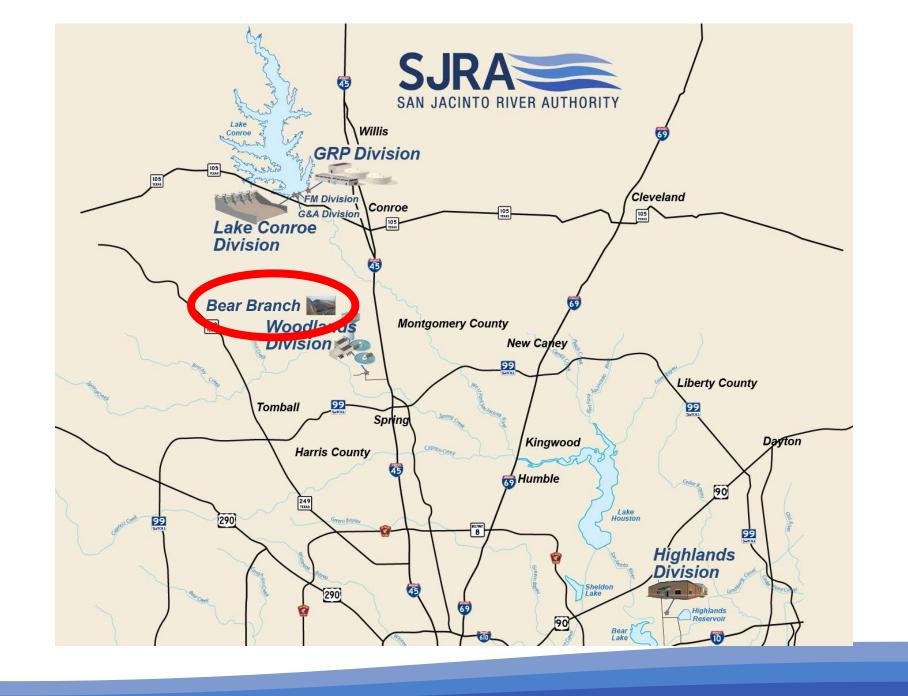
2 <sup>nd</sup> Q 2023	3 <sup>rd</sup> Q 2023	4 <sup>th</sup> Q 2023	1 <sup>st</sup> Q 2024	2 <sup>nd</sup> Q 2024	3 <sup>rd</sup> Q 2024			
	Se	ervice Outlet Ele						
			Maintena	Maintenance Facility Improvements				

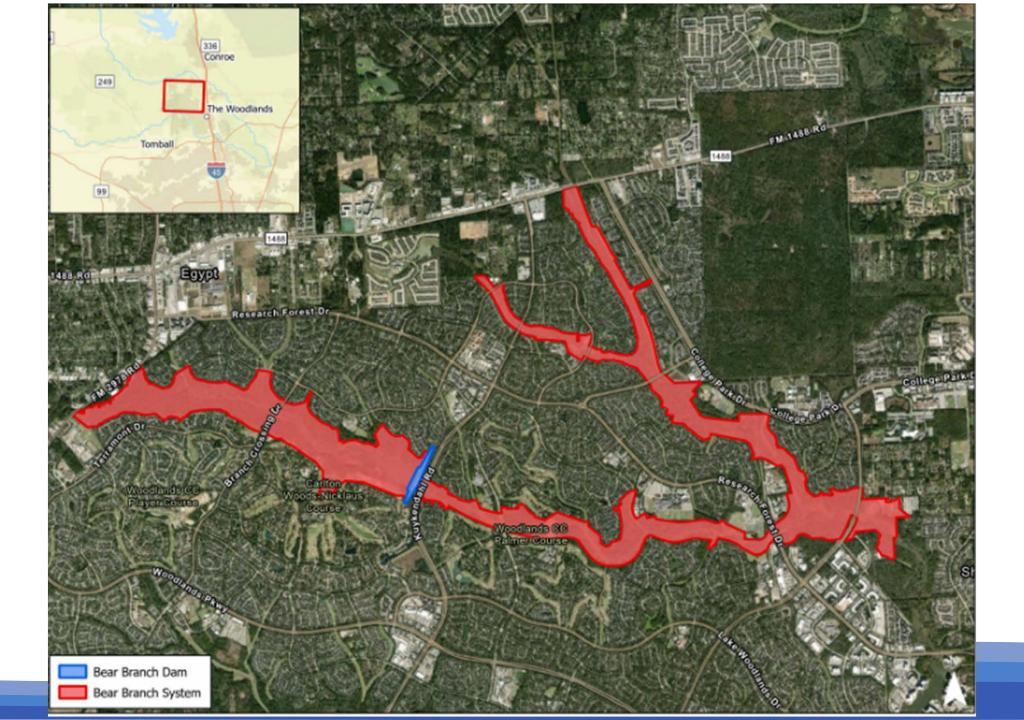
Engineering

Construction



★- Issue RFQ or CSP





## Professional Services Projects (Bear Branch)

## Spillway and Soil Cement Replacement

#### **Classification:**

- Dam Engineering
- Hydraulic Modeling
- USACE Experience

Schedule: 3rd Quarter 2023

**Total Project Budget:** \$5,050,000



## Construction Services Projects (Bear Branch)

### **STAY TUNED**



### **Bear Branch Summary**

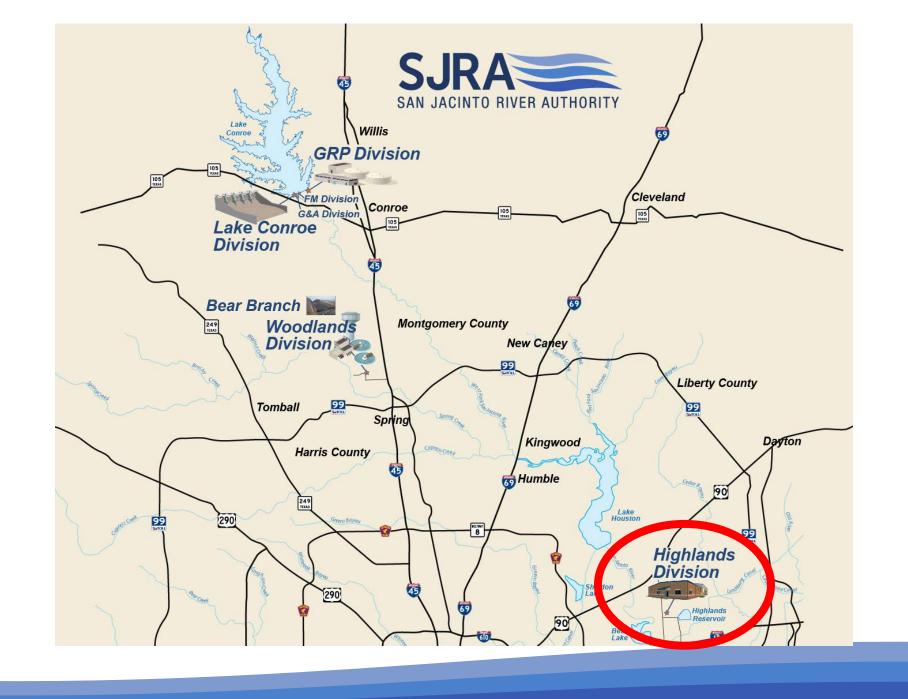
2<sup>nd</sup> Q 2023 3<sup>rd</sup> Q 2023 4th Q 2023 1st Q 2024 2<sup>nd</sup> Q 2024 3<sup>rd</sup> Q 2024 Spillway and Soil Cement Replacement

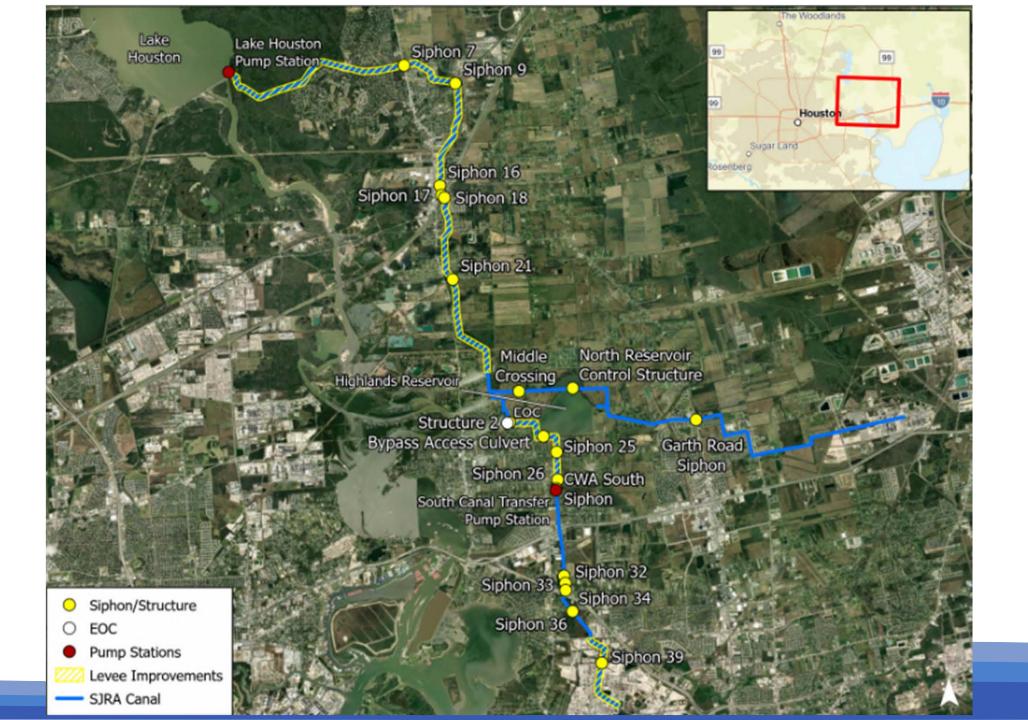
Engineering

Construction



- Issue RFQ or CSP





## Professional Services Projects (Highlands)

## Lake Houston Pump Station Pumps/Motors

#### **Classification:**

- Pump Stations
- Electrical
- Mechanical



Schedule: 2<sup>nd</sup> Quarter 2023

**Total Project Budget:** \$5,022,000



## Structure 2 and Levee Improvements

#### **Classification:**

- Siphons/Culverts
- Canal Levees

**Schedule:** 4<sup>th</sup> Quarter 2023

**Total Project Budget:** \$4,500,000



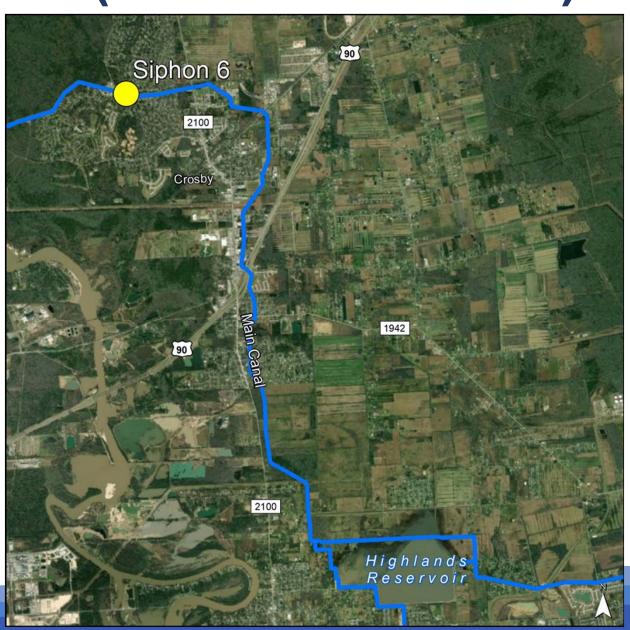
## Levee Improvements (S-6 to Reservoir)

#### **Classification:**

Canal Levees

**Schedule:** 1st Quarter 2024

**Total Project Budget:** \$1,060,000



### **Garth Road Siphon Improvements**

#### **Classification:**

- Siphons/Culverts
- Canal Levees



Schedule: 2<sup>nd</sup> Quarter 2024



**Total Project Budget:** \$4,830,000

## Construction Services Projects (Highlands)

### **Structure 5 Improvements**

#### **Classification:**

- Earthwork/Grading
- Culvert Installation
- SCADA
- Electrical

**Schedule:** 2<sup>nd</sup> Quarter 2023







**Construction Budget:** \$500,000

## Siphon 7 Improvements

#### **Classification:**

- Earthwork/Grading
- Siphon Removal/Abandonment

Schedule: 3<sup>rd</sup> Quarter 2023

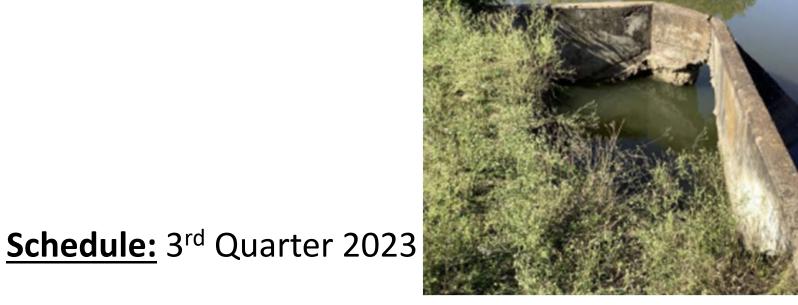


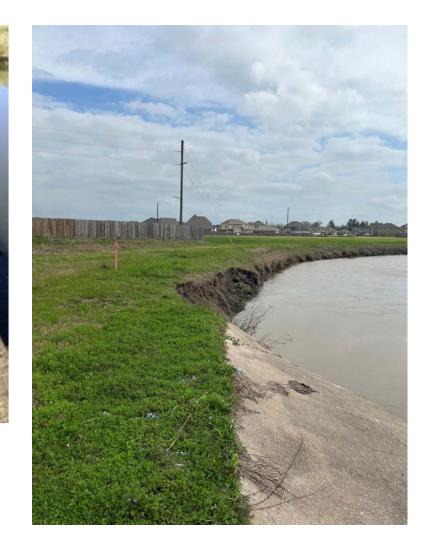
**Construction Budget:** \$718,000

## Siphon 16, 17, and 18 Erosion Repairs

#### **Classification:**

Earthwork/Grading





**Construction Budget:** \$603,000

## **Culvert Replacements**

#### **Classification:**

- Earthwork/Grading
- Concrete Structures

**Schedule:** 3<sup>rd</sup> Quarter 2023





**Construction Budget:** \$200,000

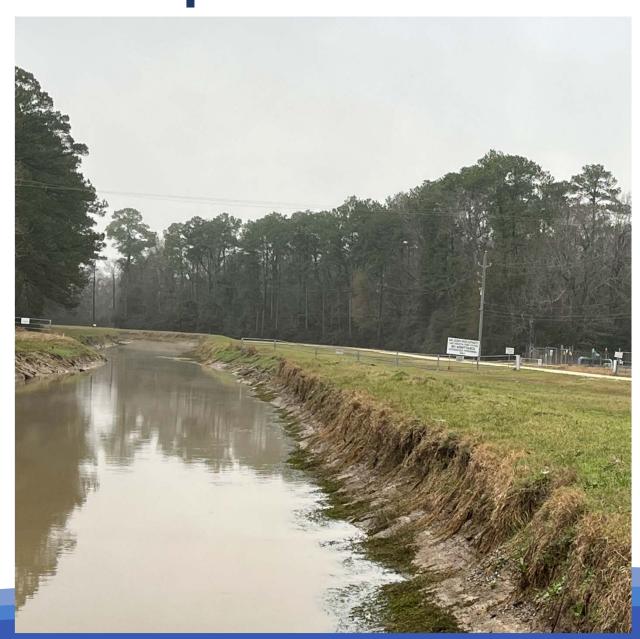
## **Main Canal Levee Improvements**

#### **Classification:**

Earthwork/Grading

Schedule: 2<sup>nd</sup> Quarter 2024

**Construction Budget:** \$6,211,000



Siphon 39/South Canal Levee Improvements

#### **Classification:**

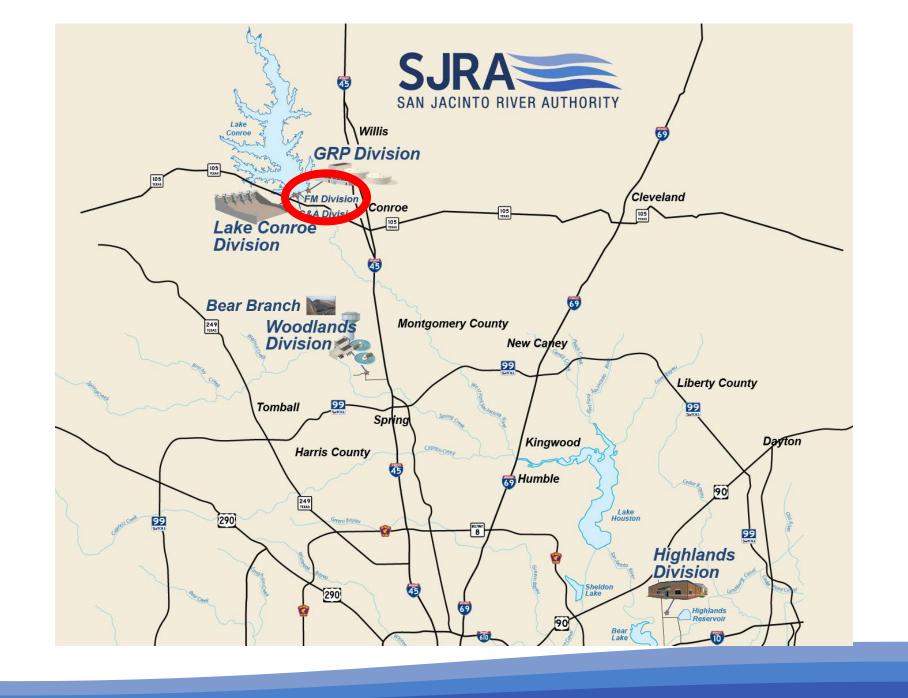
- Earthwork/Grading
- Siphons
- Concrete Structures
- Tunneling Construction

Schedule: 3<sup>rd</sup> Quarter 2024

**Construction Budget:** \$6,003,000







## Flood Management Division

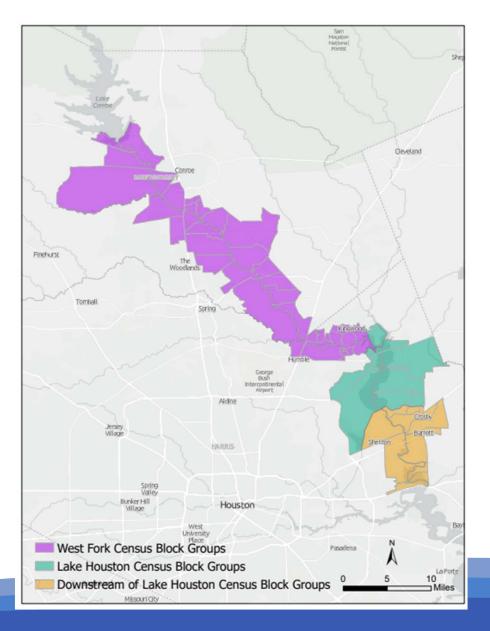
#### **STAY TUNED – SEDIMENT TRAPS**

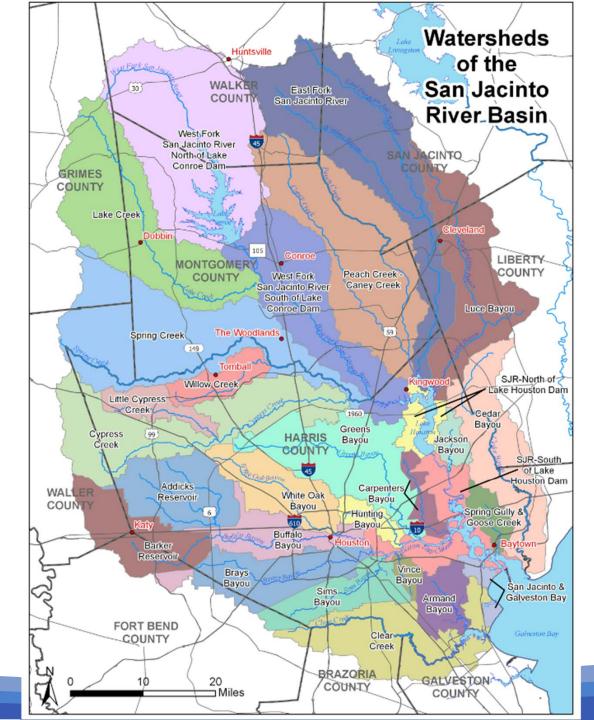


## Flood Management Division

STAY TUNED –

LAKE HOUSTON JOINT RESERVOIR OPERATION STUDY

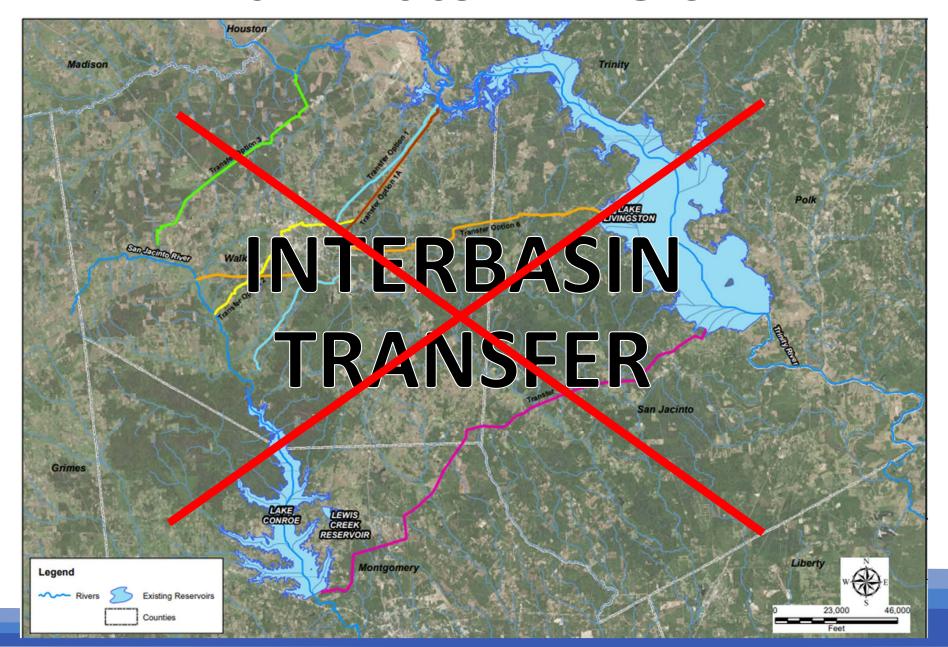


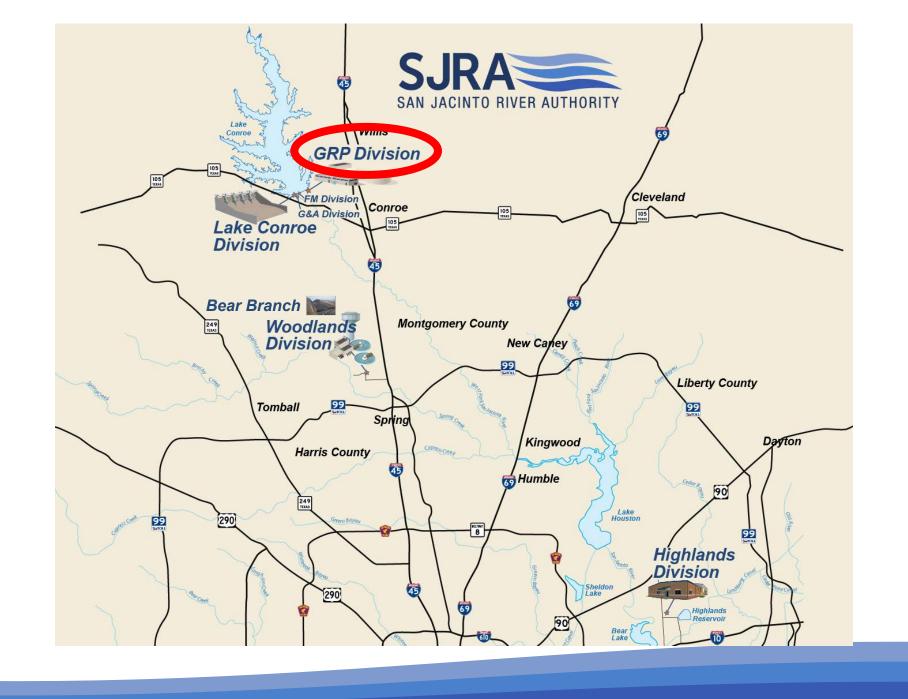


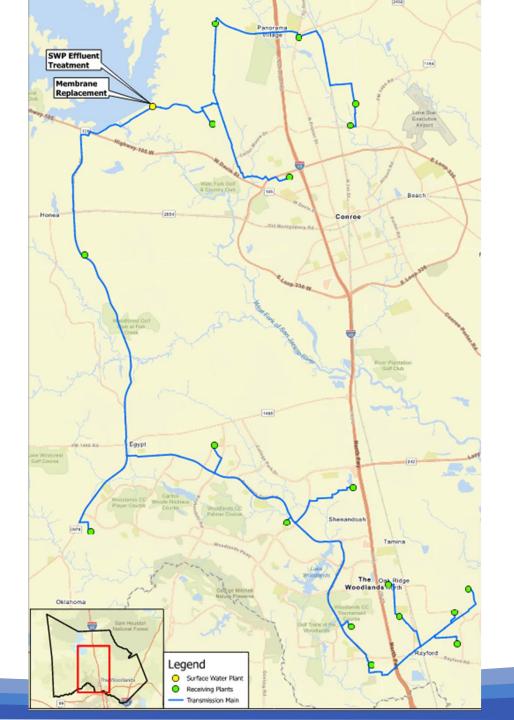
# Flood Management Division



### **Raw Water Division**









# Professional Services Projects (GRP)

## **Process Water Discharge Optimization**

#### **Classification:**

- Wastewater Planning
- Wastewater Treatment

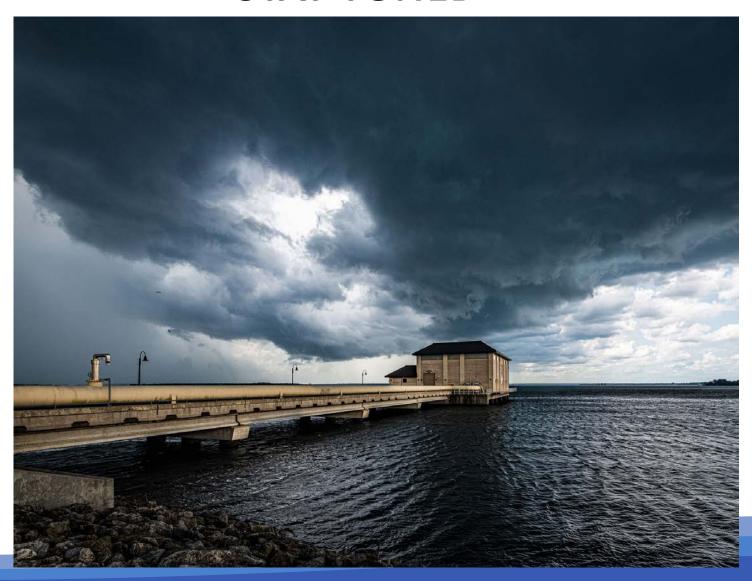
**Schedule:** 1st Quarter 2024



**Total Project Budget:** \$2,929,000

# Construction Services Projects (GRP)

### **STAY TUNED**



## **GRP Summary**

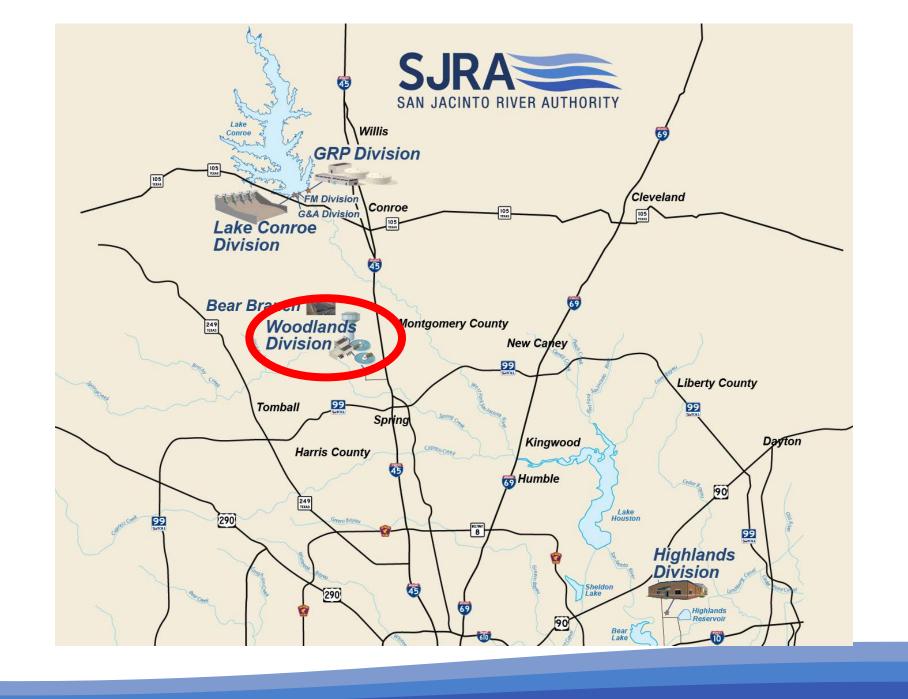
2 <sup>nd</sup> Q 2023	3 <sup>rd</sup> Q 2023	4 <sup>th</sup> Q 2023	1 <sup>st</sup> Q 2024	2 <sup>nd</sup> Q 2024	3 <sup>rd</sup> Q 2024
		•	Process Water Optimization		

Engineering

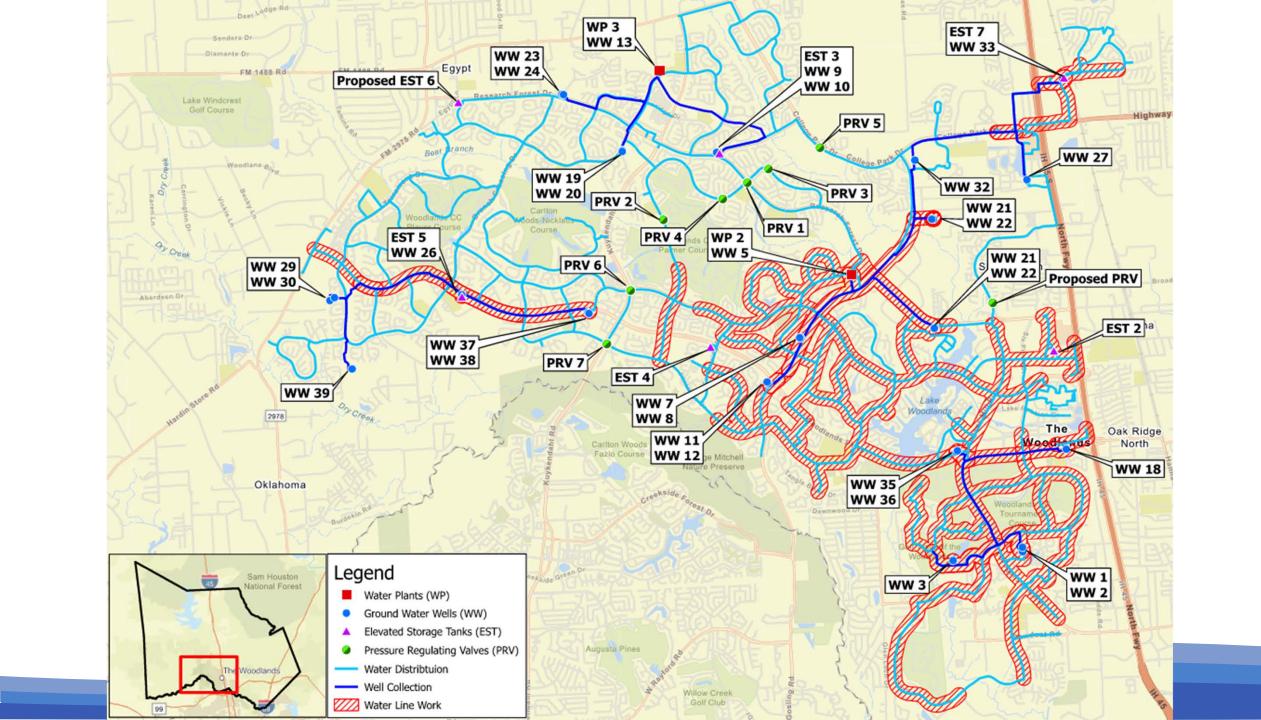
Construction



★- Issue RFQ or CSP



# Woodlands Division Water



# Professional Services Projects (Woodlands Water)

# **Elevated Storage Tank No. 6**

## **Classification:**

 1.0 MG Elevated Storage Tank Design

**Schedule:** 2<sup>nd</sup> Quarter 2023

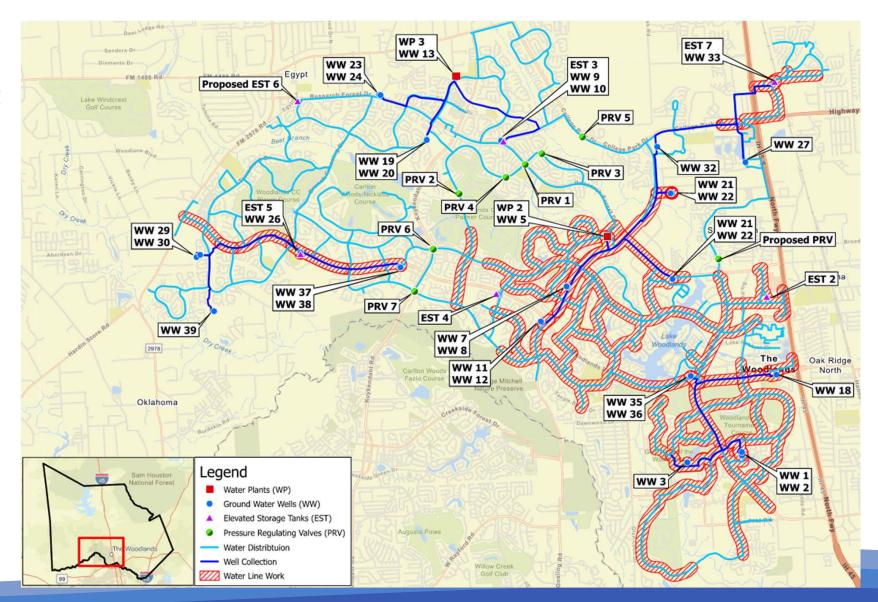


**Total Project Budget:** \$8,083,000

# **AC Water Line Program**

## **Projects:**

- 1. Program Management
- 2. North Town Center
- 3. Panther Creek



# **AC Water Line Program Management**

### **Classification:**

- Water Line Design
- Scheduling
- Program Management

**Schedule:** 3<sup>rd</sup> Quarter 2023



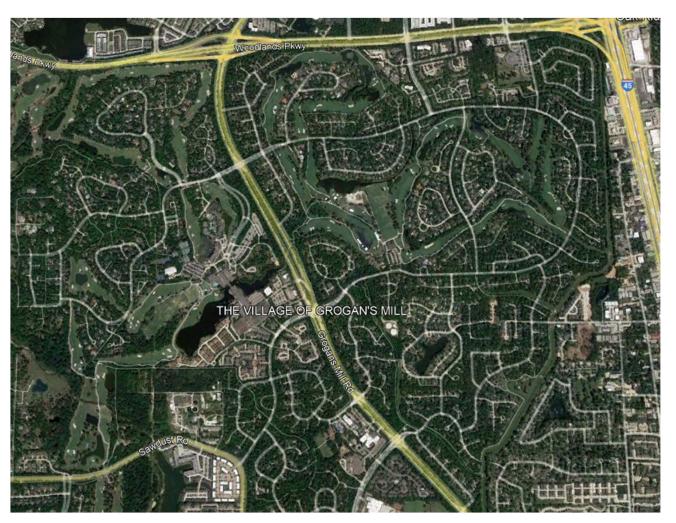
**Total Project Budget: TBD** 

# **North Town Center Water Line**

### **Classification:**

- Water Line Design
- Trenchless Design

**Schedule:** 4<sup>th</sup> Quarter 2023



Total Project Budget: ~\$22,035,000

# **Panther Creek Water Line**

### **Classification:**

- Water Line Design
- Trenchless Design

**Schedule:** 1st Quarter 2024



Total Project Budget: ~\$28,809,000

# Construction Services Projects (Woodlands Water)

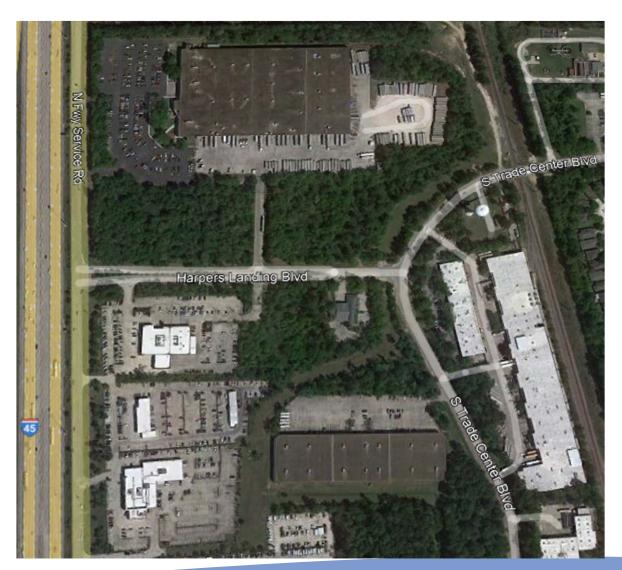
# Harper's Landing Water Line

## **Classification:**

Water Line Construction

Schedule: 2<sup>nd</sup> Quarter 2023

**Construction Budget:** \$428,000



# Grogan's Mill PRV

### **Classification:**

 PRV between WP No. 5 and WP No. 1

**Schedule:** 3<sup>rd</sup> Quarter 2023

**Construction Budget:** \$80,000

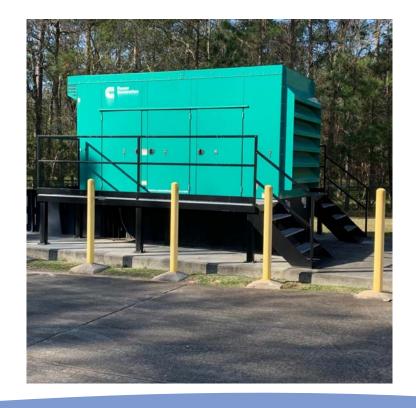


# Water Plants 2 and 3 Generators

## **Classification:**

- Generator Replacement
- SJRA Pre-Purchase Generators and ATS

**Schedule:** 2<sup>nd</sup> Quarter 2024



**Construction Budget:** \$2,000,000

# **Elevated Storage Tank No. 6**

## **Classification:**

 1.0 MG Elevated Storage Tank Construction

**Schedule:** 3<sup>rd</sup> Quarter 2024



Total Project Budget: \$8,083,000

# **Town Center Water Line**

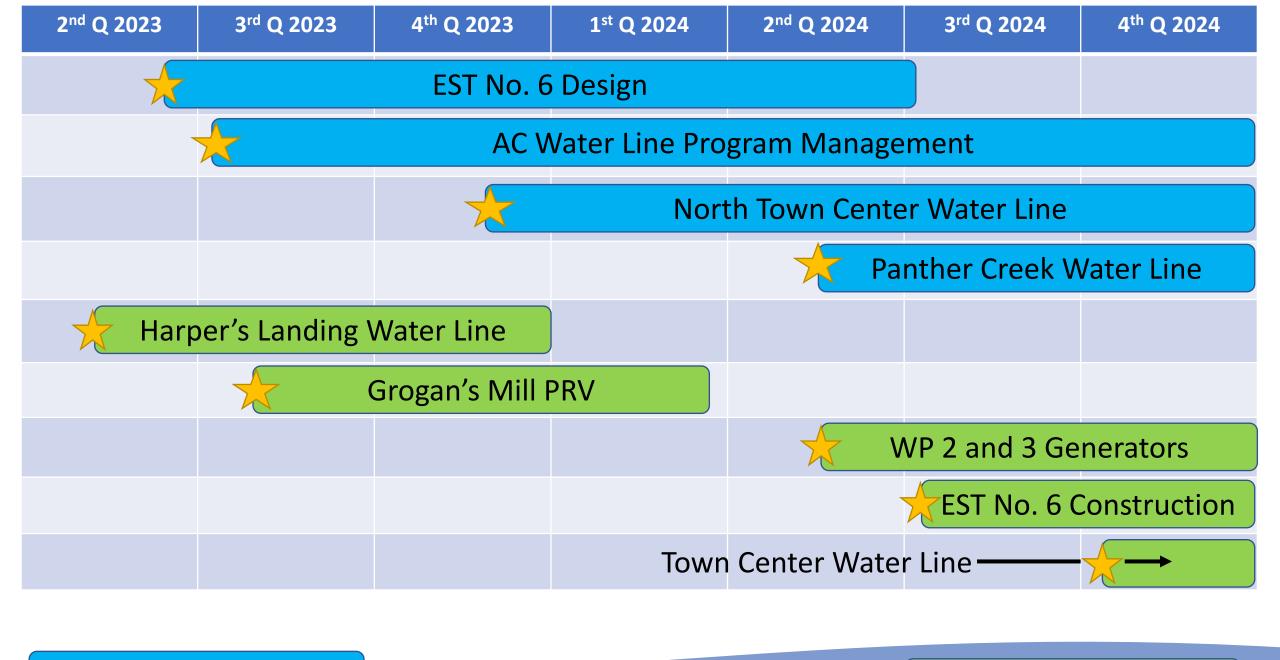
### **Classification:**

- 12-inch and 16-inch Water Line
- HDD
- Pipe Bursting
- Open Cut
- Boring

Schedule: 4<sup>th</sup> Quarter 2024

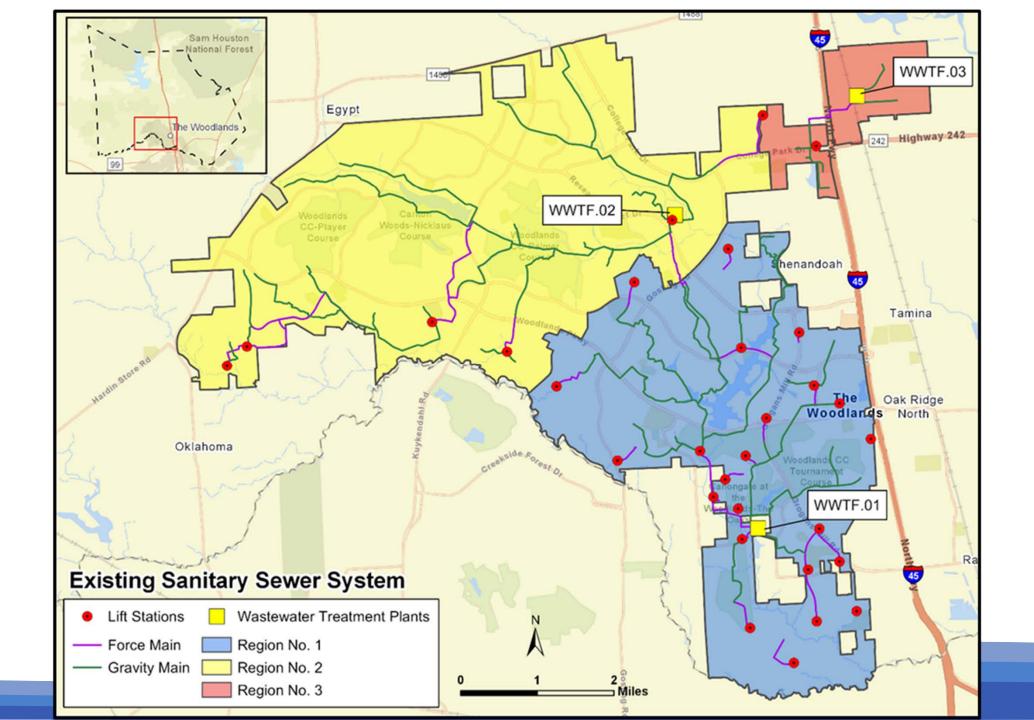


**Construction Budget:** \$10,944,000





# Woodlands Division Wastewater



# Wastewater Strategic Plan

#### **Outcome of Phase 1**

- Proceed with Phase 2
  - Further refine selected alternative (New MBR Treatment Facility)
  - Consolidation deferred
- Land Acquisition
  - Proceed with land needed for selected alternative
- Conveyance Optimization
  - Proceed with preliminary design to remove up to 5 lift stations

#### **Ongoing Phase 2**

- Refine selected alternative
- Right-size capacity of new treatment facility

# Professional Services Projects (Woodlands Wastewater)

**Conveyance Optimization** 

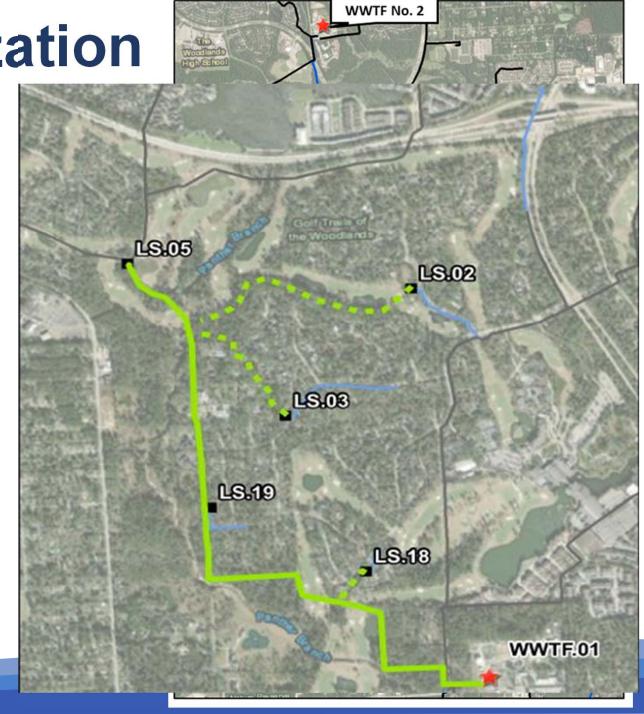
### **Classification:**

- Wastewater Planning
- Route Study
- Lift Stations
- Gravity Lines

**Schedule:** 2<sup>nd</sup> Quarter 2023 (Study)

1<sup>st</sup> Quarter 2024 (Design)

**Total Project Budget:** \$47,160,000



# **Proposed Wastewater Treatment Facility**

### **Classification:**

- Treatment Facility Design
- Membranes
- Electrical
- Mechanical

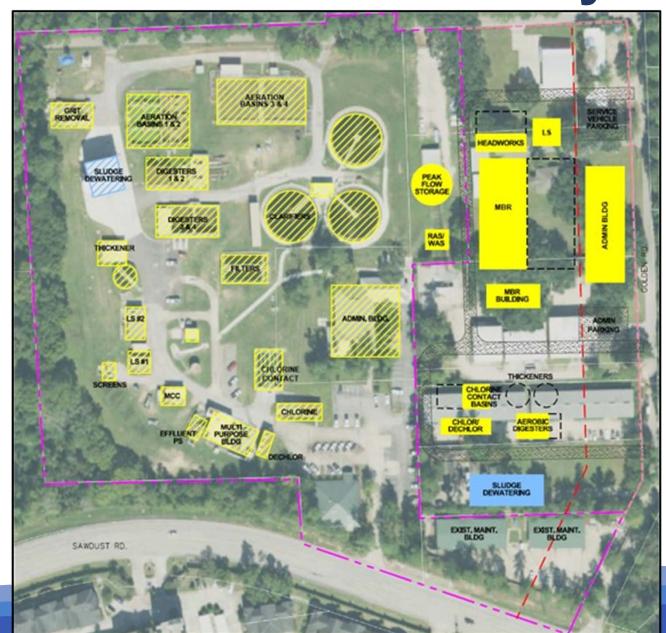
### **Schedule:**

4<sup>th</sup> Quarter 2023 (Owner's Advisor)

1<sup>st</sup> Quarter 2024 (Design)

1<sup>st</sup> Quarter 2027 Construction

Total Project Budget: \$226,170,000



# Lift Station No. 1

## **Classification:**

- Gravity Line
- Lift Station Abandonment

**Schedule:** 3<sup>rd</sup> Quarter 2023



**Total Project Budget:** \$1,000,000

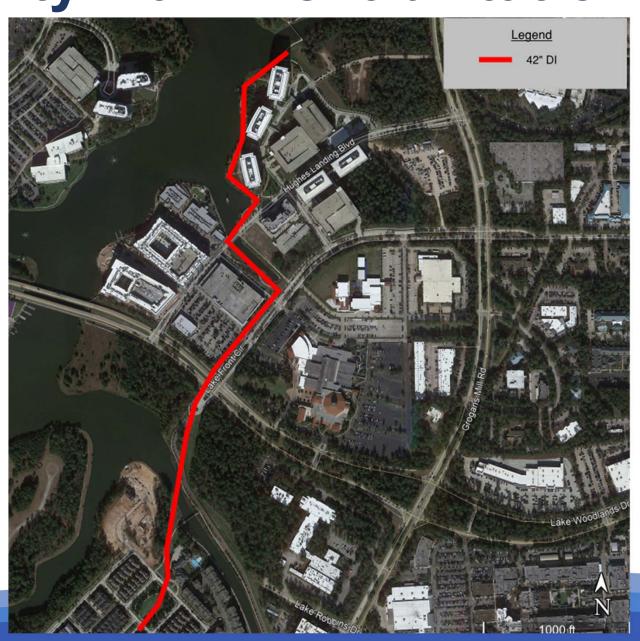
# **Hughes Landing Gravity Main Rehabilitation**

### **Classification:**

- Gravity Line Rehab
- Cured-in-place-pipe (CIPP)

Schedule: 3<sup>rd</sup> Quarter 2024

**Total Project Budget:** \$7,662,000



# Construction Services Projects (Woodlands Wastewater)

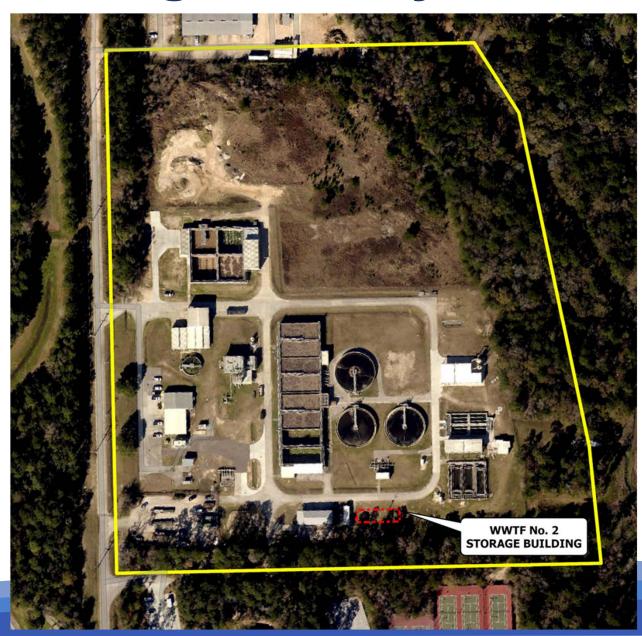
# WWTF No. 2 Storage Facility

### **Classification:**

 Metal Building Construction

Schedule: 3rd Quarter 2023

**Construction Budget:** \$410,000



# WWTF No. 2 Tertiary Filter Replacement

## **Classification:**

- Wastewater Facilities
- Filters

Schedule: 4<sup>th</sup> Quarter 2023

**Construction Budget:** \$5,203,000



Southshore Gravity Main Rehabilitation

### **Classification:**

- Gravity Main Rehab
- Cured-in-place-pipe (CIPP)
- Bypass Systems

**Schedule:** 2<sup>nd</sup> Quarter 2024

**Construction Budget:** \$9,533,500



# **Woodlands Wastewater Summary**



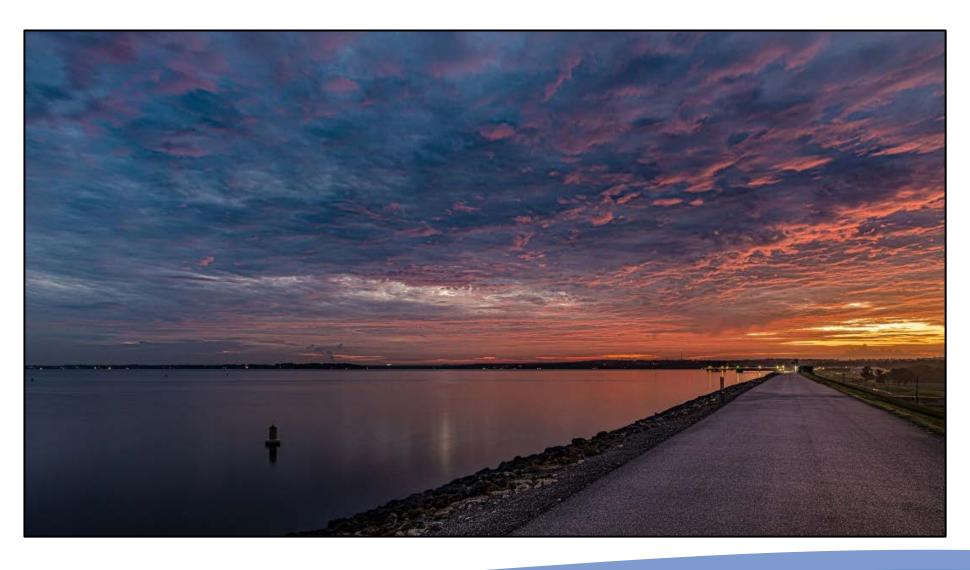
Engineering



- Issue RFQ or CSP

Construction

# Questions



# **Thank You**

## Daniel Hilderbrandt, PE

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**Justin Ford** 

Procurement Manager purchasing@sjra.net