

San Jacinto River Authority

Board of Directors Meeting
December 13, 2018





AGENDA

**SAN JACINTO RIVER AUTHORITY
THURSDAY, DECEMBER 13, 2018 - 8:00 A.M.
GENERAL AND ADMINISTRATION BUILDING
1577 DAM SITE ROAD, CONROE, TEXAS**

- 1. CALL TO ORDER**
- 2. PLEDGES OF ALLEGIANCE**
- 3. PUBLIC COMMENTS** (3 minutes per speaker/10 minutes per topic)
- 4. DIVISION UPDATES** - Receive updates from Operational Divisions and General & Administration Division related to ongoing projects, staff reports, or items on the consent agenda.
 - a. G & A:** Jace Houston, General Manager
 - b. G & A:** Tom Michel, Director of Finance and Administration
 - c. Woodlands:** Chris Meeks, Woodlands Division Manager
 - d. GRP:** Mark Smith, GRP Division Manager
 - e. Lake Conroe:** Bret Raley, Lake Conroe Division Manager
 - f. Highlands:** Kimberly Wright, Highlands Division Manager
 - g. Flood Management:** Chuck Gilman, Director of Flood Management
- 5. CONSENT AGENDA** - This agenda consists of ministerial or "housekeeping" items required by law, such as routine bids, contracts, purchases, resolutions, and orders; items previously approved by Board action, such as adoption of items that are part of an approved budget or capital improvement projects, interlocal agreements, or action which is required by law or delegated to the General Manager; and items of a non-controversial nature. These items will be considered by a single motion unless removed and placed on the Regular Agenda for individual consideration at the request of any Director.

G&A

- a. Approval of Minutes** - Regular Meeting of October 25, 2018.
- b. Unaudited Financials for the Month of October, 2018**

Consider approval of the unaudited financials for the month of October, 2018.
- c. Quarterly Investment Report for the Quarter Ended November 30, 2018**

Consider approval of the Quarterly Investment Report for the quarter ended November 30, 2018.

RAW WATER ENTERPRISE

d. Construction Contract for Wallisville Road Siphon Improvements

Consider authorizing the General Manager to execute a construction contract for Wallisville Road Siphon Improvements in Highlands.

e. Work Order No. 4 for Construction Phase Services, Construction Management, and Inspection for Wallisville Road Siphon Improvements

Consider authorizing the General Manager to execute Work Order No. 4 for construction phase services, construction management, and inspection for Wallisville Road Siphon Improvements in Highlands.

f. Work Order No. 2 for Professional Consulting Services for the Highlands Division

Consider authorizing the General Manager to execute Work Order No. 2 for professional consulting services for the Highlands Division.

g. Lake Conroe Surplus Property

Declare to be surplus and authorize the disposal by sale of a 0.359 acre tract of real property located in the William Atkins Survey, A-3, near Montgomery, Texas, and authorize the General Manager to execute all necessary documents to complete the transaction.

6. REGULAR AGENDA – This agenda consists of items requiring individual consideration by the Board of Directors.

a. G&A

1. Work Order No. 5 for Preliminary Assessment and Final Design for Roof Replacement at the General and Administration Building

Consider authorizing the General Manager to execute Work Order No. 5 for preliminary assessment and final design for roof replacement at the San Jacinto River Authority General and Administration Building.

b. WOODLANDS

1. Change Order No. 2 for Lift Station No. 5 Rehabilitation

Consider authorizing the General Manager to execute Change Order No. 2 to the construction contract for Lift Station No. 5 Rehabilitation in The Woodlands.

2. Ratify Approval and Execution of Supplemental Agreements with The Woodlands Municipal Utility Districts ("MUDs") to Implement the Sixth and Final Accounting

Ratify approval and execution of Supplemental Agreements with The Woodlands Municipal Utility Districts ("MUDs") to implement the Sixth and Final Accounting, and authorize the General Manager to execute subsequent Supplemental Agreements with The Woodlands MUDs to sell existing surplus capacity in the water supply and waste disposal systems.

c. RAW WATER ENTERPRISE

1. Construction Contract for Lake Houston Pump Station Discharge Piping Rehabilitation

Consider authorizing the General Manager to execute a construction contract for Lake Houston Pump Station Discharge Piping Rehabilitation in Highlands.

2. Work Order No. 5 for Construction Phase Services, Construction Management, and Inspection for Lake Houston Pump Station Discharge Piping Rehabilitation

Consider authorizing the General Manager to execute Work Order No. 5 for construction phase services, construction management, and inspection for Lake Houston Pump Station Discharge Piping Rehabilitation in Highlands.

3. Work Order No. 5 for General Dam Safety Engineering and Operations and Maintenance Support Services at Lake Conroe Dam

Consider authorizing the General Manager to execute Work Order No. 5 for general dam safety engineering and operations and maintenance support services at Lake Conroe Dam.

4. Work Order No. 6 for Final Design Services for Repairs at the Lake Conroe Division Office

Consider authorizing the General Manager to execute Work Order No. 6 for final design services for repairs at the Lake Conroe Division Office.

5. Work Order No. 7 for Final Design Services for Repairs at the Lake Conroe Operator's Residence

Consider authorizing the General Manager to execute Work Order No. 7 for final design services for repairs at the Lake Conroe operator's residence.

6. Work Order No. 6 for Update and Calibration of the Hydrologic and Hydraulic Model at the Lake Conroe Westside Diversion Channel

Consider authorizing the General Manager to execute Work Order No. 6 for update and calibration of the hydrologic and hydraulic model at the Lake Conroe Westside Diversion Channel.

7. EXECUTIVE SESSION (if applicable)

Closed Meeting-Executive Session regarding one or more of the topics below:

- a. Consultation with attorney, pursuant to Texas Government Code 551.071*
- b. Deliberation regarding real property, pursuant to Texas Government Code 551.072*
- c. Deliberation regarding prospective gift, pursuant to Texas Government Code 551.073*
- d. Deliberation regarding personnel matters, pursuant to Texas Government Code 551.074*
- e. Deliberation regarding security devices, pursuant to Texas Government Code 551.076*

8. RECONVENE IN OPEN SESSION FOR ACTION FOLLOWING EXECUTIVE SESSION, IF NECESSARY

9. ANNOUNCEMENTS / FUTURE AGENDA

Next San Jacinto River Authority Board Meeting - January 24, 2019

10. ADJOURN

All items on the agenda are for discussion and/or action. The Board of Directors reserves the right to adjourn into executive session at any time during the course of this meeting to discuss any of the matters listed above, as authorized by Texas Government Code Sections 551.071 (Consultation with Attorney), 551.072 (Real Property), 551.073 (Prospective Gifts), 551.074 (Personnel Matters), and 551.076 (Security Devices).

Persons with disabilities who plan to attend this meeting and would like to request auxiliary aids or services are requested to contact Cynthia Bowman at (936) 588-3111 at least three business days prior to the meeting so that appropriate arrangements can be made.



San Jacinto River Authority

Board Communication

Item No.	Agenda Item	Date
4	Receive updates from Operational Divisions and General & Administration Division related to ongoing projects, staff reports, or items on the consent agenda.	12/13/2018

BACKGROUND INFORMATION

FUNDING SOURCE: N/A

ATTACHMENTS: N/A

RECOMMENDED ACTION

No action required.



San Jacinto River Authority

Board Communication

Item No.	Agenda Item	Date
5a	Consider approval of minutes from the Board of Directors meeting of October 25, 2018.	12/13/2018

BACKGROUND INFORMATION

FUNDING SOURCE: N/A

ATTACHMENTS: Minutes

RECOMMENDED ACTION

Approve the minutes of the October 25, 2018, Board of Directors meeting.



San Jacinto River Authority

Board Communication

Item No.	Agenda Item	Date
5b	Consider approval of the unaudited financials for the month of October, 2018.	12/13/2018

BACKGROUND INFORMATION

The monthly unaudited financial statements are intended to keep the Board of Directors apprised of the ongoing financial condition of the Authority.

The monthly statements include Financial Highlights, Schedules of Revenues and Expenses (Actual and Budget), Unaudited Balance Sheet, Unaudited Statement of Revenues and Expenses (Summary), and Schedule of Investments.

FUNDING SOURCE: N/A

ATTACHMENTS: Unaudited Financials

RECOMMENDED ACTION

Approve the unaudited financial statements for the month of October, 2018.



San Jacinto River Authority Board Communication

Item No.	Agenda Item	Date
5c	Consider approval of the Quarterly Investment Report for the quarter ended November 30, 2018.	12/13/2018

BACKGROUND INFORMATION

The Quarterly Investment Report presents the investment balances and activity for San Jacinto River Authority funds, including investment strategy for each fund, in compliance with the provisions of the San Jacinto River Authority Investment Policy and the Public Funds Investment Act (Chapter 2256, Government Code).

FUNDING SOURCE: N/A

ATTACHMENTS: Quarterly Investment Report

RECOMMENDED ACTION

Approve the Quarterly Investment Report for the quarter ended November 30, 2018.



San Jacinto River Authority

Board Communication

Item No.	Agenda Item	Date
5d	Consider authorizing the General Manager to execute a construction contract for Wallisville Road Siphon Improvements in Highlands.	12/13/2018

BACKGROUND INFORMATION

Firm Name:	Lecon, Inc.
Project:	Wallisville Road Siphon Improvements
Type of Services:	Construction Contract
Type of Agreement:	Standard Construction Agreement (Contract No. 18-0111)
Project Description:	<p>Improvements to the Wallisville Road Siphon are required in order to accommodate future road widening proposed by Harris County. An Interlocal Agreement between SJRA and Harris County was executed on August 28, 2018 which requires Harris County to pay for 50% of the total actual costs of construction, up to \$1,259,375.00. The construction contract provides for all of the labor, materials, and equipment required to construct the proposed Wallisville Road Siphon Improvements. The proposed improvements consist of the construction of new dual 48-inch diameter siphon pipes, intake/discharge structures, water control gates, and other related appurtenances, and the abandonment of the existing single 48-inch diameter siphon pipe. In addition to the project being required to accommodate Harris County's road widening, the improvements will help ensure reliable conveyance and hydraulic capacity in the East Canal to meet the contracted raw water demand of SJRA's East Canal industrial customer.</p> <p>No. Proposals Received/Proposal Receipt Date: Five (5) / November 1, 2018</p> <p>Highest Ranked Offeror / Proposed Cost: Lecon, Inc. / \$2,298,987.00 (93.8 Pts.) Second Ranked Offeror / Proposed Cost: Boyer, Inc. / \$2,444,800.00 (92.5 Pts.) Third Ranked Offeror / Proposed Cost: BRH-Garver Construction, L.P. / \$2,495,600.00 (88.6 Pts.)</p> <p>Engineer/ Engineer's Estimate: Texas Water Engineering, PLLC/ \$2,517,925.00</p> <p>Proposal Amount: \$2,298,987.00 (\$1,149,493.50 to be funded by Interlocal Agreement)</p> <p>Contract Days: 270 Calendar Days</p>

FUNDING SOURCE: Bonds, Interlocal Agreement

ATTACHMENTS: Map, Summary, Proposal Form, and Agreement

RECOMMENDED ACTION

Authorize the General Manager to execute a construction contract in the amount of \$2,298,987.00 with Lecon, Inc., for Wallisville Road Siphon Improvements in Highlands, and contract modifications up to \$75,000.00.



San Jacinto River Authority

Board Communication

Item No.	Agenda Item	Date
5e	Consider authorizing the General Manager to execute Work Order No. 4 for construction phase services, construction management, and inspection for Wallisville Road Siphon Improvements in Highlands.	12/13/2018

BACKGROUND INFORMATION

Firm Name:	Texas Water Engineering, PLLC.
Project:	Wallisville Road Siphon Improvements
Type of Services:	Professional Engineering Services
Type of Agreement:	Professional Services Work Order Agreement (Contract No. 18-0022-4)
Project Description:	<p>Work Order No. 4 includes all labor, materials, and expenses required to perform construction phase services, construction management, and inspection for the improvements to the Wallisville Road Siphon. Current SJRA construction support staff are not available to provide construction management and inspection services on this project. Therefore, these services are provided by the Consultant. The proposed improvements consist of the construction of new dual 48-inch diameter siphon pipes, intake/discharge structures, water control gates, and other related appurtenances, and the abandonment of the existing single 48-inch diameter siphon pipe. The siphon improvements are required to accommodate the upcoming widening of Wallisville Road by Harris County, and will help ensure reliable conveyance and hydraulic capacity in the East Canal to meet contracted raw water demand of SJRA's East Canal industrial customer.</p>
Key Deliverable(s):	Due Date(s):
Responses to Submittals	Within 7 Calendar Days of Receipt of Submittal
Responses to RFIs	Within 3 Calendar Days of Receipt of RFI
Record Drawings	Within 45 Calendar Days of Final Completion
Type of Compensation (WO No. 4)/Amount:	Cost Plus Multiplier with Not-to-Exceed/\$250,971.85 (Up to \$109,881.50 to be funded by Interlocal Agreement)
Previous Authorized Work Orders (1-3):*	\$290,971.96
Work Order No. 4:	<u>\$250,971.85</u>
Total Amount:	\$541,943.81
Construction Cost:	\$2,298,987.00
Anticipated Completion Date:	November 13, 2019

*See attached Exhibit 1 for information on previous authorized work orders.

FUNDING SOURCE:	Bonds, Interlocal Agreement
ATTACHMENTS:	Exhibit 1, Work Order No. 4, Scope, Level of Effort, Schedule, Business Justification
RECOMMENDED ACTION	

Authorize the General Manager to execute Work Order No. 4 in an amount not to exceed \$250,971.85 with Texas Water Engineering, PLLC, for construction phase services, construction management, and inspection for Wallisville Road Siphon Improvements in Highlands.



San Jacinto River Authority

Board Communication

Item No.	Agenda Item	Date
5f	Consider authorizing the General Manager to execute Work Order No. 2 for professional consulting services for the Highlands Division.	12/13/2018

BACKGROUND INFORMATION

Firm Name:	Texas Water Engineering, PLLC
Project:	Highlands Professional Consulting Services
Type of Services:	Professional Engineering Services
Type of Agreement:	Professional Services Work Order Agreement (Contract No. 18-0080-2)
Project Description:	

Texas Water Engineering, PLLC (“TWE”) has and currently provides professional engineering consulting services for Capital Improvement Projects (CIP) and non-CIP efforts to the Highlands Division as an extension of SJRA staff. This partnership provides benefit to the SJRA in that it allows for greater efficiency and lower cost consulting services than a traditional consultant relationship in which the consultant performs the services with significantly less involvement by SJRA staff. In order to continue this relationship and take advantage of TWE’s expertise and knowledge of SJRA’s projects, it is proposed to enter into a new work order with TWE for professional consulting services required in calendar year 2019.

Work is anticipated to include, but is not necessarily limited to professional engineering and design support for renewal, rehabilitation, replacement, and improvements to various components of the Highlands Canal System; technical review, evaluation, analysis, and other consulting activities; small project/contract management assistance; and technical training of SJRA Technical Services Department (TSD) engineering and construction management staff.

Key Deliverable(s):	Due Date(s):
Technical Memoranda, Engineering Reports, Design/Procurement Documents	As Directed by SJRA
Type of Compensation/Amount:	Cost Plus Multiplier with Not-to-Exceed/\$64,000.00
Previous Authorized Work Order (1):*	\$ 54,500.00
Work Order No. 2:	<u>\$ 64,000.00</u>
Total Amount:	\$118,500.00
Anticipated Completion Date:	December 31, 2019

*See attached Exhibit 1 for information on previous authorized work order.

FUNDING SOURCE: Cash, Bonds

ATTACHMENTS: Exhibit 1, Map, Work Order No. 2, Scope, Level of Effort, Schedule, Business Justification

RECOMMENDED ACTION

Authorize the General Manager to execute Work Order No. 2 in an amount not to exceed \$64,000.00 with Texas Water Engineering, PLLC, for professional consulting services for the Highlands Division.



San Jacinto River Authority Board Communication

Item No.	Agenda Item	Date
5g	Declare to be surplus and authorize the disposal of a 0.359 acre tract of real property located in the William Atkins Survey, A-3, near Montgomery, Texas, and authorize the General Manager to execute all necessary documents to complete the transaction.	12/13/2018

BACKGROUND INFORMATION

The Authority has received a request from a landowner along the shores of Lake Conroe to purchase a small tract of SJRA property that is adjacent to the landowner's tract. Staff has processed the request in accordance with the Board-approved guidance memo and recommends that the Board declare the tract surplus and dispose of it via sale to the adjacent landowner as outline below.

- Buyer: Tow Family Partners LTD
- Description: A 0.359 acre parcel in the William Atkins Survey, A-3
- Location: 1 Harbor Drive Montgomery, TX 77356 (Survey and legal description attached)
- MCAD Land Value: \$883,050 / 441,524 sq. ft. = \$2.00 sq. ft.
- SJRA Tract Value: (\$2.00 X 15,638sq. ft.) / (0.8 factor) = \$39,095.00
- Attorney Closing Cost: \$2,000.00
- Disposal Sale Price: \$41,095.00

FUNDING SOURCE: N/A

ATTACHMENTS: MCAD Data Sheet, Metes and Bounds Survey

RECOMMENDED ACTION

Declare to be surplus and authorize the disposal by sale of a 0.359 acre tract of real property located near Montgomery, Texas, at a price of \$41,095.00, and authorize the General Manager to execute all necessary documents to complete the transaction.



San Jacinto River Authority

Board Communication

Item No.	Agenda Item	Date
6a1	Consider authorizing the General Manager to execute Work Order No. 5 for preliminary assessment and final design for roof replacement at the San Jacinto River Authority General and Administration Building.	12/13/2018

BACKGROUND INFORMATION

Firm Name:	L Squared Engineering, LLC
Project:	General and Administration Building Roof Replacement
Type of Services:	Professional Engineering Services
Type of Agreement:	Professional Services Work Order Agreement (Contract No. 18-0097-5)
Project Description:	<p>The San Jacinto River Authority's (SJRA) General and Administration (G&A) Building roof has experienced substantial leaking. The existing 5,700 square foot roof system is a PVC membrane system with PVC-60 thermoplastic membrane surface over rigid polystyrene roof board insulation. The roof is in need of replacement with a different material and roofing system.</p> <p>Work includes the identification and assessment of alternative roofing systems and then the final design of the selected replacement roofing system.</p>
Key Deliverable(s):	Due Date(s):
Final Technical Memorandum	February 5, 2019
100% Design Documents	March 25, 2019
Conformed Documents	May 6, 2019
Type of Compensation (WO No. 5)/Amount:	Cost Plus Multiplier with Not-to-Exceed/\$39,191.93
Previous Authorized Work Orders (1-4):*	\$ 63,700.80
Work Order No. 5:	\$ 39,191.93
Total Amount:	\$102,892.73
Construction Cost (est.):	\$200,000.00
Anticipated Completion Date:	May 6, 2019
<p>* See attached Exhibit 1 for information on previous authorized work orders. Work Order Nos. 6 and 7 are also under consideration during this December 13, 2018 Board Meeting.</p>	

FUNDING SOURCE: Cash

ATTACHMENTS: Exhibit 1, Map, Work Order No. 5, Scope, Level of Effort, Schedule, Business Justification

RECOMMENDED ACTION

Authorize the General Manager to execute Work Order No. 5 in an amount not to exceed \$39,191.93 with L Squared Engineering, LLC, for preliminary assessment and final design for roof replacement at the San Jacinto River Authority General and Administration Building.



San Jacinto River Authority

Board Communication

Item No.	Agenda Item	Date
6b1	Consider authorizing the General Manager to execute Change Order No. 2 to the construction contract for Lift Station No. 5 Rehabilitation in The Woodlands.	12/13/2018

BACKGROUND INFORMATION

Firm Name:	Black Castle General Contractors
Project:	Lift Station No. 5 Rehabilitation
Type of Services:	Standard Construction Agreement
Type of Agreement:	Standard Construction Agreement (Contract No. 17-080)

Project Description:

The original scope of work for the Lift Station No. 5 Rehabilitation project included rehabilitation of the existing lift station wet well with the installation of a corrosion-resistant wall liner, replacement of approximately 35 linear feet of 24-inch sanitary sewer force main, a new 24-inch magnetic flow meter, replacement of two existing lift station pumps, installation of one additional lift station pump, and replacement of associated pipe, valves, and appurtenances. For a description of previously approved Change Order No. 1, see attached Exhibit 1. Change Order No. 2 provides for 17 additional days of diversion pumping required by the Contractor. The initial wet well coating test results showing non-compliance were disputed by the Contractor. Tests were properly re-performed according to industry standards and resulted in acceptance of the material.

Original Contract Amount:	\$751,643.00
Previously Approved Change Order No. 1:	\$ 50,799.55
<u>Proposed Change Order No. 2:</u>	<u>\$ 34,295.15</u>
Total Revised Contract Amount:	\$836,737.70

Original Contract Days:	300
<u>Previously Approved Change Order No. 1:</u>	<u>30</u>
Total Revised Contract Days: (Calendar Days)	330

FUNDING SOURCE: R&R

ATTACHMENTS: Map, Exhibit 1, Change Order, Justification Forms, Parallel Estimate

RECOMMENDED ACTION

Authorize the General Manager to execute a Change Order No. 2 in the amount of \$34,295.15 with Black Castle General Contractors for Lift Station No. 5 Rehabilitation in The Woodlands.



San Jacinto River Authority

Board Communication

Item No.	Agenda Item	Date
6b2	Ratify approval and execution of Supplemental Agreements with The Woodlands Municipal Utility Districts ("MUDs") to implement the Sixth and Final Accounting, and authorize the General Manager to execute subsequent Supplemental Agreements with The Woodlands MUDs to sell existing surplus capacity in the water supply and waste disposal systems.	12/13/2018

BACKGROUND INFORMATION

Background:

- The Sixth and Final Accounting was presented to the SJRA Board of Directors on May 25, 2017.
- The reconciliation of capacity in the Water Supply and Waste Disposal Systems, and the amounts to be paid for same, per the Sixth and Final Accounting is memorialized in a Supplemental Agreement between the Authority and each of The Woodlands MUDs.
- All of the Supplemental Agreements needed to implement the Sixth and Final Accounting have been drafted and executed at this time, and the Board is requested to ratify the same.
- The Board is also requested to authorize the General Manager to negotiate and execute subsequent Supplemental Agreements to sell existing, surplus capacity in said Systems to The Woodlands MUDs on a first-come, first-served basis, at the rates reflected in the Sixth and Final Accounting, in accordance with the additional terms and conditions set forth in the Supplemental Agreements presented to the Board at this meeting

FUNDING SOURCE: NA

ATTACHMENTS: Board Presentation May 2017, Supplemental Agreements

RECOMMENDED ACTION

Ratify approval and execution of Supplemental Agreements with The Woodlands Municipal Utility Districts ("MUDs") to implement the Sixth and Final Accounting, and authorize the General Manager to execute subsequent Supplemental Agreements with The Woodlands MUDs to sell existing surplus capacity in the water supply and waste disposal systems.



San Jacinto River Authority

Board Communication

Item No.	Agenda Item	Date
6c1	Consider authorizing the General Manager to execute a construction contract for Lake Houston Pump Station Discharge Piping Rehabilitation in Highlands.	12/13/2018
BACKGROUND INFORMATION		
Firm Name:	Boyer, Inc.	
Project:	Lake Houston Pump Station Discharge Piping Rehab	
Type of Services:	Construction Contract	
Type of Agreement:	Standard Construction Agreement (Contract No. 18-0112)	
Project Description:	<p>The Lake Houston Pump Station (LHPS) was originally constructed in the early 1950s and has remained in service since. A comprehensive inspection of the interior of the discharge piping was conducted in 2017 which revealed significant deterioration of the steel portions of the discharge piping. Alternatives for repair and rehabilitation were identified and evaluated. The installation of a fiberglass reinforced polymer was selected as the proper repair/rehabilitation method to help ensure reliable operation of the LHPS to meet contracted raw water demands. The construction contract provides for all of the labor, materials, and equipment required to construct the proposed repair/rehabilitation work. Due to the configuration of the discharge piping header, three of the LHPS pumps will be out of service during the work. Only Pump No. 4 which has a capacity of approximately 30 MGD will be available for providing raw water from Lake Houston. Pumping capacity at the East and South Canal Pump Stations is available to provide raw water from Trinity River sources to customers downstream of these facilities. This project also includes temporary diversion pumping capacity to provide additional raw water from Lake Houston, as required.</p>	
No. Proposals Received/Proposal Receipt Date:	Two (2) / November 8, 2018	
Highest Ranked Offeror / Proposed Cost:	Boyer Inc. / \$1,441,778.00 (98.0 Pts.)	
Second Ranked Offeror / Proposed Cost:	BRH-Garver Construction L.P. / \$1,846,580.00 (80.1 Pts.)	
Engineer:	Texas Water Engineering, PLLC	
Total Base Items:	\$ 991,810.00	
Total Extra Unit Price Items:	\$ 439,968.00	
Cash Allowance:	<u>\$ 10,000.00</u>	
Total Proposal Amount:	\$1,441,778.00	
Engineer's Estimate:	\$893,067.00 (Base Items Only)	
Contract Days:	90 Calendar Days	
FUNDING SOURCE: Cash		
ATTACHMENTS: Map, Summary, Proposal Form, and Agreement		
RECOMMENDED ACTION		
<p>Authorize the General Manager to execute a construction contract in the amount of \$1,441,778.00 with Boyer, Inc., for Lake Houston Pump Station Discharge Piping Rehabilitation in Highlands, and contract modifications up to \$75,000.00.</p>		



San Jacinto River Authority

Board Communication

Item No.	Agenda Item	Date
6c2	Consider authorizing the General Manager to execute Work Order No. 5 for construction phase services, construction management, and inspection for Lake Houston Pump Station Discharge Piping Rehabilitation in Highlands.	12/13/2018

BACKGROUND INFORMATION

Firm Name:	Texas Water Engineering, PLLC.
Project:	Lake Houston Pump Station Discharge Piping Rehab
Type of Services:	Professional Engineering Services
Type of Agreement:	Professional Services Work Order Agreement (Contract No. 18-0022)
Project Description:	<p>The Lake Houston Pump Station (LHPS) was originally constructed in the early 1950s and has remained in service since. A comprehensive inspection of the interior of the discharge piping was conducted in 2017 which revealed significant deterioration of the steel portions of the discharge piping. Alternatives for repair and rehabilitation were identified and evaluated. The installation of a fiberglass reinforced polymer was selected as the proper repair/rehabilitation method to help ensure reliable operation of the LHPS to meet contracted raw water demands. Work Order No. 5 includes all labor, materials, and expenses required to perform construction phase services, construction management, and inspection. Current SJRA construction support staff are not available to provide construction management and inspection services on this project. Therefore, these services are to be provided by the Consultant.</p>
Key Deliverable(s):	Due Date(s):
Responses to Submittals	Within 7 Calendar Days of Receipt of Submittal
Responses to RFIs	Within 3 Calendar Days of Receipt of RFI
Record Drawings	Within 45 Calendar Days of Final Completion
Type of Compensation (WO No. 5)/Amount:	Cost Plus Multiplier with Not-to-Exceed/\$108,103.53
Previous Authorized and Pending Work Orders (1-4):*	\$541,943.81
Work Order No. 5:	<u>\$108,103.53</u>
Total Amount:	\$650,047.34
Construction Cost:	\$1,441,778.00
Anticipated Completion Date:	April 23, 2019

*See attached Exhibit 1 for information on previous authorized work orders. Work Order No. 4 is also under consideration during this December 13, 2018 Board Meeting.

FUNDING SOURCE: Cash

ATTACHMENTS: Exhibit 1, Work Order No. 5, Scope, Level of Effort, Schedule, Business Justification

RECOMMENDED ACTION

Authorize the General Manager to execute Work Order No. 5 in an amount not to exceed \$108,103.53 with Texas Water Engineering, PLLC, for construction phase services, construction management, and inspection for Lake Houston Pump Station Discharge Piping Rehabilitation in Highlands.



San Jacinto River Authority

Board Communication

Item No.	Agenda Item	Date
6c3	Consider authorizing the General Manager to execute Work Order No. 5 for general dam safety engineering and operations and maintenance support services at Lake Conroe Dam.	12/13/2018

BACKGROUND INFORMATION

Firm Name:	Freese and Nichols, Inc.
Project:	General Dam Safety Engineering and Operations and Maintenance Support Services at Lake Conroe Dam
Type of Services:	Professional Engineering Services
Type of Agreement:	Professional Services Work Order Agreement (Contract No. 18-0098-5)
Project Description:	<p>SJRA's Lake Conroe Division operates and maintains the Lake Conroe Dam and associated facilities. Throughout the year, there is potential for dam safety considerations and/or operations and maintenance questions/concerns that require professional engineering assistance to address. Work Order No. 5 provides for the labor and materials necessary to conduct general dam safety engineering and operations and maintenance support services for the Lake Conroe Dam and associated raw water assets as directed by SJRA for the remainder of Fiscal Year 2019. Work Order No. 5 also provides for specific efforts required for completion of design and procurement services, as well as performance of construction phase services, for the Lake Conroe Dam Crest Road Repairs project.</p>
Key Deliverable(s):	Due Date(s):
Draft Technical Memoranda	As Directed by SJRA
Final Technical Memoranda	As Directed by SJRA
Dam Crest Road Procurement Documents	As Directed by SJRA
Dam Crest Road Record Drawings	Within 45 calendar days of Final Completion
Type of Compensation (WO No. 5)/Amount:	Cost Plus Multiplier with Not-to-Exceed/\$60,678.00
Previous Authorized Work Orders (1-4):*	\$ 96,873.00
Work Order No. 5:	<u>\$ 60,678.00</u>
Total Amount:	\$157,551.00
Anticipated Completion Date:	August 31, 2019
* See attached Exhibit 1 for information on previous authorized work orders. Work Order No. 6 is also under consideration during this December 13, 2018 Board Meeting.	

FUNDING SOURCE: Cash

ATTACHMENTS: Exhibit 1, Map, Work Order No. 5, Scope, Level of Effort, Schedule, Business Justification

RECOMMENDED ACTION

Authorize the General Manager to execute Work Order No. 5 in an amount not to exceed \$60,678.00 with Freese and Nichols, Inc., for general dam safety engineering and operations and maintenance support services at Lake Conroe Dam.



San Jacinto River Authority

Board Communication

Item No.	Agenda Item	Date
6c4	Consider authorizing the General Manager to execute Work Order No. 6 for final design services for repairs at Lake Conroe Division Office.	12/23/2018

BACKGROUND INFORMATION

Firm Name:	L Squared Engineering, LLC
Project:	Lake Conroe Division Office Remediation and Repair
Type of Services:	Professional Engineering Services
Type of Agreement:	Professional Services Work Order Agreement (Contract No. 18-0097-6)
Project Description:	<p>The San Jacinto River Authority's (SJRA) Lake Conroe Division Office (the facility) serves as a critical facility for Lake Conroe administration, permitting and operations staff who operate and maintain existing infrastructure associated with the Lake Conroe Dam and Reservoir, and Bear Branch Dam. Preliminary assessments performed in previous work orders have confirmed numerous building issues including, but not limited to the presence of mold, active water and animal intrusions, and required electrical and HVAC repairs.</p> <p>The Work generally includes the efforts associated with final design services and procurement assistance for repairs at the Lake Conroe Division Office to address the identified issues.</p>
Key Deliverable(s):	Due Date(s):
100% Design Documents	February 19, 2019
Conformed Documents	April 11, 2019
Type of Compensation (WO No. 6/Amount):	Lump sum/\$29,099.63
Previous Authorized Work Orders (1-5): *	\$ 102,892.73
Work Order No. 6	\$ <u>29,099.63</u>
Total Amount	\$ 131,992.07
Construction Cost	\$ 460,500.00 (est.)
Anticipated Completion Date:	April 11, 2019
<p>*See attached Exhibit 1 for information on previous authorized work orders. Work Order Nos. 5 & 7 are also under consideration during this December 13, 2018 Board Meeting.</p>	

FUNDING SOURCE: Cash

ATTACHMENTS: Exhibit 1, Map, Work Order No. 6, Scope, Level of Effort, Schedule, Business Justification

RECOMMENDED ACTION

Authorize the General Manager to execute Work Order No. 6 in the amount of \$29,099.63 with L Squared Engineering, LLC, for final design services for repairs at Lake Conroe Division Office.



San Jacinto River Authority

Board Communication

Item No.	Agenda Item	Date
6c5	Consider authorizing the General Manager to execute Work Order No. 7 for final design services for repairs at Lake Conroe operator's residence.	12/23/2018

BACKGROUND INFORMATION

Firm Name:	L Squared Engineering, LLC
Project:	Lake Conroe Facilities Remediation and Repair
Type of Services:	Professional Engineering Services
Type of Agreement:	Professional Services Work Order Agreement (Contract No. 18-0097-7)
Project Description:	<p>The San Jacinto River Authority's (SJRA) Lake Conroe operator's residence (the residence) serves as a residence for one of the Lake Conroe Division operations staff member to live on SJRA owned property. Preliminary assessments performed in previous work orders have confirmed the presence of mold as well as active water intrusions in the residence. Repairs associated with remediation and prevention of reoccurrence of mold, elimination of water intrusions, as well as sealing the exterior envelope, and electrical repairs are necessary.</p> <p>The Work generally includes the efforts associated with final design services and procurement assistance for repairs at the Lake Conroe operator's residence to address the identified issues.</p>
Key Deliverable(s):	Due Date(s):
100% Design Documents	February 19, 2019
Conformed Documents	April 11, 2019
Type of Compensation (WO No. 7/Amount):	Lump sum/\$12,264.66
Previous Authorized Work Orders (1-6): *	\$ 131,992.07
Work Order No. 7	\$ <u>12,264.66</u>
Total Amount	\$ 144,256.73
Construction Cost	\$ 85,500.00 (est.)
Anticipated Completion Date:	April 11, 2019
*See attached Exhibit 1 for information on previous authorized work orders. Work Orders Nos. 5 & 6 are also under consideration during this December 13, 2018 Board Meeting.	

FUNDING SOURCE: Cash

ATTACHMENTS: Exhibit 1, Map, Work Order No. 7, Scope, Level of Effort, Schedule, Business Justification

RECOMMENDED ACTION

Authorize the General Manager to execute Work Order No. 7 in the amount of \$12,264.66 with L Squared Engineering, LLC, for final design services for repairs at Lake Conroe operator's residence.



San Jacinto River Authority

Board Communication

Item No.	Agenda Item	Date
6c6	Consider authorizing the General Manager to execute Work Order No. 6 for update and calibration of the hydrologic and hydraulic model at the Lake Conroe Westside Diversion Channel.	12/13/2018

BACKGROUND INFORMATION

Firm Name:	Freese & Nichols, Inc.
Project:	Lake Conroe Westside Diversion Channel Improvements
Type of Services:	Professional Engineering Services
Type of Agreement:	Professional Services Work Order Agreement (Contract No. 18-0098-6)
Project Description:	

The Westside Diversion Channel (the channel) is a critical component of the Lake Conroe Dam’s west side embankment underdrain and relief well drainage system. Existing channel slopes have eroded, jeopardizing functionality of the system and threatening damage to adjacent private property. Repairs to channel slopes are necessary to provide adequate drainage and efficient operation of the drainage system, provide accessibility for maintenance, and protect slopes and adjacent properties from further erosion. Failure of the channel could cause dam relief wells to backup, which could create increased pore pressures in the dam and threaten its stability. Evaluation of the existing hydrologic and hydraulic conditions of the channel is necessary to identify appropriate channel repairs. The existing hydrologic and hydraulic model is outdated (2008) due to increased development within the contributing drainage area, as well as recently updated values published in “NOAA Atlas 14 Volume 11 Precipitation-Frequency Atlas of the US.,” which include increased rainfall amounts for 100-year storm events. Work Order No. 6 includes all labor, materials, and expenses required to update and calibrate the model for the Lake Conroe Westside Diversion Channel.

Key Deliverable(s):	Due Date(s):
Draft Technical Memorandum and Model	April 2, 2019
Final Technical Memorandum and Model	April 30, 2019
Type of Compensation (WO No. 6)/Amount:	Lump sum/\$43,552.00
Previous Authorized Work Orders (1-5):*	\$157,551.00
Work Order No 6. :	<u>\$ 43,552.00</u>
Total Amount:	\$201,103.00
Anticipated Completion Date:	April 30, 2019

*See attached Exhibit 1 for information on previous authorized work orders. Work Order No. 5 is also under consideration during this December 13, 2018 Board Meeting.

FUNDING SOURCE: Cash

ATTACHMENTS: Exhibit 1, Map, Work Order No. 6, Scope, Level of Effort, Schedule, Business Justification

RECOMMENDED ACTION

Authorize the General Manager to execute Work Order No. 6 in the amount of \$43,552.00 with Freese & Nichols, Inc., for update and calibration of the hydrologic and hydraulic model at the Lake Conroe Westside Diversion Channel.