

St. Bernard Parish Conformed Copy

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SHREAD KUYRKENDALL & ASSOCIATES INC

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AMENDMENT NO 1
TO AGREEMENT
BETWEEN
OWNER AND ENGINEER
FOR PROFESSIONAL DESIGN SERVICES

This is an Amendment No.1 attached to and made part of the Agreement dated November 9, 2015, between St. Bernard Parish (“Owner”) and Shread-Kuyrkendall & Associates, Inc. (“Engineer”) for professional services related to the Water Booster Station at the Reggio Water Tower (“The Project.”)

The November 9, 2015 Agreement is hereby amended as follows:

1. Under Exhibit A, 1.0 Engineer Services, Task 1 shall be replaced in its entirety to read as follows:

TASK 1 – Water Distribution Modeling

The existing St. Bernard water distribution system shall be modeled. Available models will be reviewed with the Parish prior to initiation of modeling efforts. Costs and capabilities of each model will be reviewed prior to model selection. Input of the existing distribution system in this area shall be updated from the Parish’s existing GIS system. The operational parameters for the existing water towers shall be assessed based upon interviews with existing staff and field visits to the towers. Costs for modeling efforts from the Violet Water Tower to Delacroix and Yscloskey will be tracked separately to allow reimbursement by grant funds. A separate Notice to Proceed may be issued by the Parish for the modeling of this portion of the system. Model will be based upon boundaries established at the Violet Water Tank. Available pressures and water quality at the Violet Tank will be based upon existing records. Demands within the existing system shall be updated based upon current records of active water meters and monthly usage for the last year south of Violet. Usage records will be cross-checked with a google earth (2013) review of existing properties. Records will be analyzed for variations in seasonal usage and differences between weekend and week day usage.

Model will be calibrated utilizing up to six fire hydrants tests. The tests will be performed by Parish staff, with engineering measuring associated changes in system pressures. Model runs shall be performed to assess overall travel times based upon weekend demands and weekday demands for both peak and low flow seasons. Methods to reduce overall travel times shall be assessed utilizing the model including:

- Insertion of artificial demand points (i.e. blowoff hydrants);
- Changes in existing storage tank operations including placing existing tanks off line;
- Addition of booster pumping at existing storage tanks and/or;
- Appropriate locations for addition of chlorine residual based upon estimated remaining transit time

Based upon modeling efforts, three alternatives shall be presented to the Parish to positively impact current water travel times and associated water quality issues. The proposed alternatives, estimated operational and construction costs, and advantages and disadvantages shall be detailed in a draft technical memorandum for discussion with St. Bernard Parish. A conceptual design workshop shall be provided to discuss the various alternatives and make revisions as required. Based upon this workshop, the technical memorandum will be finalized and include recommended alternative including operational changes, design and construction needs necessary to implement the alternative including an opinion of probable construction cost.

The remainder of the water distribution system in Arabi, Chalmette, Meraux and Violet shall also be modeled. Available models will be reviewed with the Parish prior to initiation of modeling efforts. Costs and capabilities of each model will be reviewed prior to model selection. Input of the existing distribution system in this area shall be

updated from the Parish's existing GIS system. It is presumed the Parish can provide GIS information in a format that can be utilized electronically for transfer to the model. Creation of the model will be based upon the assumption that the existing GIS system has all existing line locations and sizes. If the material types for the lines are not available it will be assumed that St. Bernard staff shall be able to mark-up existing GIS plans for input of material types.

The operational parameters for the existing water towers shall be assessed based upon interviews with existing staff and field visits to the towers. Available pressures and water quality at the water tanks will be based upon existing records. Demands within the existing system shall be updated based upon current records of active water meters and monthly usage. Usage records will be cross-checked with a google earth (2013) review of existing properties. Records will be analyzed for variations in seasonal usage and differences between weekend and week day usage.

Model will be calibrated utilizing up to six fire hydrants tests. The tests will be performed by Parish staff, including measurements of associated changes in system pressures. Model runs shall be performed to assess overall travel times based upon weekend demands and weekday demands for both peak and low flow seasons. Methods to reduce overall travel times shall be assessed utilizing the model including:

- Insertion of artificial demand points (i.e. blowoff hydrants);
- Changes in existing storage tank operations including placing existing tanks off line;
- Addition of booster pumping at existing storage tanks and/or;
- Appropriate locations for addition of chlorine residual based upon estimated remaining transit time

Modeling efforts shall also be compared to distribution sampling results for TRC, nitrite and other parameters to establish the correlation between model transit times and water quality parameters. Up to four separate sampling events will be reviewed to establish this correlation. Based upon this evaluation certain model parameters may be adjusted.

Based upon modeling efforts, alternatives shall be presented to the Parish to positively impact current water travel times and associated water quality issues. The proposed alternatives, estimated operational and construction costs (if applicable), and advantages and disadvantages shall be detailed in a draft technical memorandum for discussion with St. Bernard Parish. Included in the alternatives will be adjustment in operational procedures such as manual flushing locations and procedures. A workshop shall be provided to discuss the various alternatives and make revisions as required. Based upon this workshop, the technical memorandum will be finalized and include recommended alternatives including operational changes, design and construction needs necessary to implement the alternatives including an opinion of probable construction cost (if applicable).

St. Bernard Parish staff has SOPs for the monitoring and sampling of water quality in the distribution system, determination of the need to "burn" the system with free chlorine, flushing operations and other procedures. All existing SOPs will be reviewed and assessed for potential necessary changes. The need for additional SOPs will be assessed as well. Included will be an assessment of the need for St. Bernard Parish to sample prior to DHH for the presence of the amoeba, naegleria fowleri and/or the ability to provide confirmatory samples during DHH sampling events. Upon initial review of existing SOPs, a meeting will be held with St. Bernard staff to discuss the implementation of existing SOPs and any potential changes. A technical memorandum shall be issued detailing recommended changes to the existing SOPs.

After the completion of the model and recommendations there may be a continued need to maintain the model and change it as system changes are implemented. It may also be utilized to continue to evaluate the impacts of flushing efforts and additional operational changes as an overall operational tool. This may be provided by in house staff or contract staff dependent on the Parish's needs.

2. Under Exhibit A, 3.0 the time period for performance shall be replaced in its entirety to read as follows:

3.0 TIME PERIOD FOR PERFORMANCE

The time periods for the performance of ENGINEER's services as set forth in Article 2 of said Agreement are as follows:

Upon execution of this Agreement by the Owner, he may issue the Notice to Proceed for Task 1. No work shall take place without a written Notice to Proceed from the OWNER. Task 1 shall be completed within twenty-four (24) weeks from Notice to Proceed. Task 2 shall be initiated upon completion and acceptance of Task 1 and shall be completed within twelve (12) weeks. Task 3 shall be completed within sixteen (16) weeks of Owner approval and acceptance of the preliminary design report under Task 2. Task 1 and 2 shall be exclusive of OWNER review. Task 5 shall be initiated upon receipt of approval from the OWNER to initiate bidding services. Task 6 shall be initiated upon acceptance of the low bidder and shall be based upon a six (6) month construction time. Tasks 4, 7 and 8 shall be initiated upon acceptance of a separate scope of services proposal by the OWNER.

3. Under Exhibit A, 4.0 Method of Payment shall be replaced in its entirety to read as follows:

4.0 METHOD OF PAYMENT

The method of payment for Services rendered by ENGINEER shall be as set forth below:

<u>Task</u>	<u>Form of Payment</u>	<u>Amount</u>
1.0	Lump Sum	\$150,000
2.0	Lump Sum	\$54,409
3.0	Lump Sum	\$72,546
4.0	Not to Exceed	\$15,000
5.0	Lump Sum	\$9,068
6.0	Lump Sum	\$45,341
7.0	Not to Exceed	\$50,379
8.0	Not to Exceed	\$110,000

All lump sum tasks shall be billed at an estimated percent of completion on a monthly basis. Funding allocations are provided for tasks that allow a future scope of services approval to be submitted to the OWNER for approval. For the purposes of this contract the OWNER'S Director of Public Works shall be allowed to provide approval of the scope of services proposals for these tasks.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement to be effective as of the date first above written:

OWNER:



By: Guy McInnis 

Title: Parish President

Date: 6/27/10

ENGINEER:



By: Richard R. Shread

Title: President

Date: 6/24/10

Address for giving notices:

8201 West Judge Perez Drive

Chalmette, LA 70043

Address for giving notices:

Shread-Kuyrkendall & Associates, Inc.

13016 Justice Avenue

Baton Rouge, LA 70816