ADD-CHANGE FORM

New Project or Budget Change?	New Project	**Assigned Project #:**	2015155
Requested by:	Bryan K. Gongre *Project Manager / Area Manager*	**Date:**	10/1/2015
Project Name:	LG Splitter Box Replacement		
Company:	251 Lake Utility Services Inc		
Business Unit:	251103 LUSI South S		
Project Owner:	Bryan K. Gongre	**BU Type:**	SP
Project Manager:	Bryan K. Gongre	**Budget Owner / RVP:**	John Hoy 03
Start Date:	11/2/2015 Q4 2015	**Region:**	Florida 04
Estimated End Date:	2/28/2016 Q1 2016	**State:**	FL
Project Type:	Maintenance		
Will project replace/retire any assets:	Yes		

Previously Requested:	$0
This Request:	**$83,460**
Still to be Requested:	
Total Project Budget:	**$83,460**

Description:

The Lake Groves WWTF splitter box with a coarse bar screen that receives the influent flow from an upstream static bar screen was originally constructed and installed in 2001 and has reached the end of its service life. The splitter box divides the influent flow between the north and south treatment plants. The existing splitter box is constructed of sheet aluminum and has significant interior and exterior deterioration. The new splitter box will be a like for like replacement constructed of 316 SS.

Timeline Considerations:

There are no existing engineered plans for the existing splitter box as the box was custom built by US Filter when the south treatment plant was constructed. The new box will require engineering services that are expected to take 30 to 60 days to complete prior to manufacturing.

Inter-dependant Project Project Number: Project Name (If applicable)

Have engineering evaluations been performed? No Engineering project number (If applicable)

JUSTIFICATION / ALTERNATIVES

Justification and Benefits:

The existing splitter box is designed to divide the influent flow to each of the two treatment plants and allow excess flow to be diverted to each of the surge tanks. Currently the baffle wall inside of the splitter box has deteriorated to the point that the influent flow can no longer evenly be divided between the two treatment plants meaning one plant receives a greater portion of the flow decreasing the BOD loading to the other plant. With less BOD being received by the other treatment plant, nitrate levels become elevated and the wasting regimine becomes more challenging when considering the F/M ratio. The maximum permitted nitrate levels have been exceeded from time to time pointing to the splitter box deterioration as a contributing factor to the exceedences.

Risk Evaluation

Further degradation of the internal baffles and support beams will continue to create operational issues that will worsen over time leading to routine nitrate exceedences beyond permit limits and trigger a regulatory response. Bypass lines that allow the influent flow from the static screens directly to each of the surge tanks were installed in 2014 as a means to bypass the splitter box in the event of a full out failure or collapse; however, this is only a temporary measure as the surge tank pumps deliver approximately 1000 GPM of flow directly to the each of the treatment plants that may create excessive hydraulic loading and a rise in the clarifier blanket and potential wash outs of solids over the effluent weirs to the facility's filters.

Alternatives Considered:

The choice to construct the splitter box of 316 SS was determined as opposed to constructing the splitter box of aluminum. This component of the treatment plant is a required piece of equipment and replacement is unavoidable. Consideration was given toward constructing the splitter box of fiberglass; however, Florida's UV factor would degrade the fiberglass over time and not provide the same service life as 316 SS.

Technical Review Summary:

This project was reviewed by the CPRT on Thursday, 10/15/15. No comments were received that require further evaluation, explanation or consideration.

Financial and Regulatory Implications

Capital Plan	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
Proposed Project Spend	41,730	41,730			
Project Spend in Current Plan					
Variance	(41,730)	(41,730)	-	-	-
CIAC Collected					
Net Rate Base	**41,730**	**83,460**	**83,460**	**83,460**	**83,460**

(if applicable)

O&M Cost Impact B/(W)					

Financial Justification

Estimated Revenue Impact per Customer:	Served (2)	Rate Payers (2)
Number of Customers Impacted:	2,450	2,450

Utility Financial Impact	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
O&M Impact on EBITDA B/(W)		-	-	-	-
Depreciation Impact on EBIT B/(W)	(464)	(2,782)	(2,782)	(2,782)	(2,782)
Under-recovery on capital B/(W)	(774)	(2,886)	(2,678)	(2,469)	(2,260)
Net EBIT Impact B/(W)	**(1,237)**	**(5,668)**	**(5,460)**	**(5,251)**	**(5,042)**

Timing and Supporting Information on Rate Recovery

We are filing a consolidated rate case in 2016.

Regulatory Plan Implications

Assumptions

BID INFORMATION AND BUDGET BREAKDOWN

Have three bids been received? No

If not, why? List and provide amounts below

Bid	Company	Amount	Selected
1	Evoqua fka US Filter	$83,504	No
2	ECO 2000	$78,000	Yes
3			

Component:	Amount	
Value Bid Elements	78,000.00	should match selected bid(s) above
Engineering		
Direct Purchase of Parts / Materials		
Landscaping / Site Restoration		
Other Components (specify):		
Cap Time		
Tax @ 7.0%	5,460.00	

Total Project Budget **83,460.00** should match Total Budget on General Information

Object Account(s) to which project will be closed:

1410	Plant Sewers Trtmt Plt
	select from dropdown list
	select from dropdown list
	select from dropdown list
	select from dropdown list

Go to Reference List

General Comments:

The manufacturing of the replacement splitter box is a custom application and limits the number of qualified contractors to obtain bids from. Therefore only two bidders were solicited.

Approvals

EAM Prime Review

Review Completed by: Nate Carver Date: 10/15/2015

Does project align with utility plan and meet technical requirements? **Yes** ☑ **No** ☐

Comments

Technical Peer Review

Review Sponsored by: Patrick Flynn Date Held: 10/15/2015

Approval to proceed **Yes** ☐ **No** ☐

Comments (note if feedback received in review incorporated)

None.

FP&A Review

Review Completed by: Christie Kincaid Date: 10/15/2015

Does Project comply with current Utility Rate and Regulatory Plan? **Yes** ☑ **No** ☐

Comments

Approvals				Applicable?
Regional Manager:	Bryan K. Gongre	Date:	10/15/2015	☑
VP Operations:	Patrick C. Flynn	Date:	10/15/2015	☑
President:	John P. Hoy	Date:	10/15/2015	☑

Approval or Re-Direction Comments

Evoqua Water Technologies LLC
EQUIPMENT AND INSTALLATION PROPOSAL

Project Name
LAKE GROVES WWTP
INFLUENT BOX REPLACEMENT

Proposal Date
March 24, 2015

Proposal Number
150121-A0

Representative

Heyward Inc.
Tommy Tyson
208 Crescent Lake Ct.
Lakeland, FL 33813-4644
Tel 863-646-7694
ttyson@heywardfl.com

Proposal Submitted by:

Bill Knisely
Evoqua Water Technologies LLC
1828 Metcalf Avenue
Thomasville, GA 31792
Phone: 229-226-5733
Fax: 229-228-0312

Evoqua is pleased to provide a proposal for the **Lake Groves WWTP Influent Splitter Box Replacement** project. Equipment and services are outlined below and furnished upon acceptance of this proposal.

General Description: Provide a replacement WWTP Influent Splitter Box. Two (2) options to be provided. One (1) 304 stainless steel construction and one (1) 316 stainless steel construction. The box is to include bar screen, top cover, 12" discharge piping, two (2) new 12" plug valves, and required connection for interface with existing 4" RAS piping and 2" odor control piping. The existing influent box and WWTP were provided by Evoqua under old job number D10319ES. The Influent splitter box and piping will be delivered by Evoqua for installation by Evoqua.

SCOPE OF SUPPLY:

- Influent splitter box, 14'-0" long x 4'-9" wide x 3'-8" high (nominal). Box to be 3/16" thick stainless steel construction and to include:
  - 36" long section of 16" sch 10 stainless steel inlet pipe.
  - 45º bar screen constructed from ¼" thick x 1" wide stainless steel bars on 1" centers.
  - Adjustable over flow broad weirs, stainless steel
  - Stainless steel hinged covers over top of box. An 18" section of one of the covers to be welded where the odor control pipe attaches.
  - 12" sch 20 stainless steel discharge piping terminating at the existing control valves.
  - (2) 12" replacement plug valves with gaskets, and stainless steel hardware.
  - 4" RAS connection as required to interface with existing piping.
  - 2" odor control connection as required to interface with existing piping.

- **GUARANTEE:** One (1) year from date of acceptance not to exceed eighteen (18) month from date of shipment.

ITEMS NOT INCLUDED BY EVOQUA:

1. Submittals
2. Start-up
3. By-passing of flow while box is being replaced
4. Electrical
5. Permits, taxes and bonds
6. Any items/equipment not specifically listed in this proposal

Erection Proposal

Evoqua proposes to furnish labor, equipment and expendable materials to install the equipment purchased on Evoqua Proposal Number 150121-A0.

The scope of work and responsibilities for the work is as defined below:

The customer is responsible for site ready for rehab before Evoqua arrives on site to start work.

Evoqua is responsible for demolition with disposal of removed equipment and materials on site.

Evoqua is responsible for offloading the equipment supplied by Evoqua.

Evoqua is responsible for installing supplied accessories and/or equipment mounted on the tank or attached to the interior of the tank by normal fabrication procedures.

Evoqua is responsible for providing the necessary construction equipment for installation.

Work hours by Evoqua Water Technologies LLC at the site shall be as determined by Evoqua Water Technologies LLC. The purchaser shall not define working hours, number of work days per week or prohibit Evoqua Water Technologies LLC from working evenings, weekends, holidays, etc., when deemed to be advisable by Evoqua Water Technologies LLC General Terms and Conditions for Erection Work document is included as part of this proposal.

304SS Option PRICE for Demolition, Equipment and Installation: $76,922.00. Taxes not included. F.O.B. Thomasville, Georgia, Freight allowed.

316SS Option PRICE for Demolition, Equipment and Installation: $83,504.00. Taxes not included. F.O.B. Thomasville, Georgia, Freight allowed.

Payment terms:
10% with signed agreement (Net 30 days from invoice date)
90% based on progressive payments as project progress (Net 30 days from invoice date)

Price and delivery estimate valid only for 60 days from date of this proposal. The described equipment is subject to the approval of the customer.

Shipment estimated 12-14 weeks after receipt of signed contract.

Equipment installation estimated at 5-7 days.

There are attachments to this proposal and they are part of the contact. Evoqua is not responsible for the installation or warranty of any item not furnished by Evoqua.

The above equipment is offered to meet the intent of the project and to the extent that they relate to the equipment as detailed and offered herein. Any items not specifically included are not covered under the scope of this proposal.

Note: The scope of supply and pricing are based on EVOQUA' standard equipment selection, standard terms of sale and warranty terms. Any variations from these standards may affect this proposal.

PROPOSAL AND ORDER FORM

NOTE: Any order resulting from this proposal is subject to the terms and conditions attached and acceptance by Evoqua. Purchaser's acceptance of this offer is expressly limited to such terms and conditions without change or addition.

Accepted by Buyer:	Acknowledged by Seller: Evoqua Water Technologies, LLC
_____	_____
Signed	Signed
_____	_____
Printed Name	Printed Name
_____	_____
Title	Title
_____	_____
Date	Date

<u>CONTRACTOR NOTE:</u> This Bid by Evoqua Water Technologies LLC (Evoqua) is further contingent upon such things as: (i) resolution of mutually acceptable payment terms; (ii) Evoqua's satisfactory completion of an anti-corruption due diligence review; and (iii) written agreement specifically acknowledging acceptance of terms and conditions mutually agreed upon by parties.

ECO-2000, Inc.
P.O. Box 2275
Bushnell, FL 33513
Phone #352-793-5060

Estimate

Account #	Date	Estimate #
LC103	6/5/2015	ECO-3076

Name / Address
Lake Utility Services, Inc. Attn: Domenic/Chuck

Description	Qty	Rate	Total
LAKE GROVES WWTP SPLITTER BOX/MANUAL BAR SCREEN 1. Furnish and replace the 3/16" thick, 14' long X 4' 9" wide X 3'8" high Wastewater Treatment Plant Splitter Box/Manual Bar screen with 316 S.S. metal. 2. The Splitter box will be constructed according to the approved engineered plans. 3. All metals inside and outside of the Splitter Box/Manual Bar screen will be 316 Stainless Steel. 4. Replace all Metal pipes with 316 S.S. Pipe between splitter box and surge tank. 5. The Splitter Box lids will be constructed of aluminum 6. Reconnect the 4" Odor Control Pipe where opening the top door do not affect the pipe or door. 7. All Piping and gasket kits below splitter box will be Stainless Steel (inlet and outlet pipe) 8. The box will be constructed according to the original splitter box plans. 9. Includes startup by the engineer; verify equipment is operable and the same as original design. 10. A full set of detailed engineered blueprints 11. Warranty: One year from the date of operations. Includes all labor, materials and equipment necessary to complete the job.		78,000.00	78,000.00

Total $78,000.00

3006123
PO# 199033 / Req# 213057

Invoice

ECO-2000, Inc.
P.O. Box 2275
Bushnell, FL 33513
Phone: (352) 793-5060
Fax: (352) 793-9074

Account #	Date	Invoice #
LC103	5/4/2015	15-7270

Bill To
Lake Utility Services, Inc. Attn: Chuck

Job #

P.O. No.	Business Unit No.	Terms
		Due on receipt

Description	Qty	Rate	Total
LAKE GROVES WWTP SPLITTER BOX/MANUAL BAR SCREEN 1. Furnish and replace the 3/16" thick, 14' long X 4' 9" wide X 3'8" high Wastewater Treatment Plant Splitter Box/Manual Bar screen with 316 S.S. metal. 2. The Splitter box will be constructed according to the approved engineered plans. 3. All metals inside and outside of the Splitter Box/Manual Bar screen will be 316 Stainless Steel. 4. Replace all Metal pipes with 316 S.S. Pipe between splitter box and surge tank. 5. The Splitter Box lids will be constructed of aluminum 6. Reconnect the 4" Odor Control Pipe where opening the top door do not affect the pipe or door. 7. All Piping and gasket kits below splitter box will be Stainless Steel (inlet and outlet pipe) 8. The box will be constructed according to the original splitter box plans. 9. Includes startup by the engineer; verify equipment is operable and the same as original design. 10. A full set of detailed engineered blueprints 11. Warranty: One year from the date of operations.		78,000.00	78,000.00

	Total

ECO-2000, Inc.
P.O. Box 2275
Bushnell, FL 33513
Phone: (352) 793-5060
Fax: (352) 793-9074

Invoice

Account #	Date	Invoice #
LC103	5/4/2015	15-7270

Bill To
Lake Utility Services, Inc. Attn: Chuck

Job #

P.O. No.	Business Unit No.	Terms
		Due on receipt

Description	Qty	Rate	Total
Includes all labor, materials and equipment necessary to complete the job.			
		Total	$78,000.00