

Evoqua Water Technologies Inc. 1828 METCALF AVE THOMASVILLE, GA 31792 TELEPHONE 229-227-8736 FACSIMILE 229-228-0312

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SUBJECT Wekiva WWTP Rehab

Note: The scope of supply and pricing are based on EVOQUA standard equipment selection, wage rates, standard terms of sale and warranty terms. Any variations from these standards may affect this budgetary proposal. Additionally, please note that this budgetary proposal is for review and informational purposes only and does not constitute an offer for acceptance.

Budget Price for Equipment/Materials, Demolition, Installation & Field Paint for Wekiva WWTP's #1, #2, & #3 F.O.B. Thomasville, Georgia. Freight allowed is **\$1,526,000.00.** Taxes not included.

General Description: Provide materials and equipment to rehab three (3) existing WWTP's. All WWTP's have a 116'-0" diameter outer wall and 60'-0" clarifier. Plants #1 & #3 have steel outer walls and Plant #2 is concrete. Components and materials will be delivered by Evoqua for installation by Evoqua. Evoqua is not responsible for the repair or structural design of the existing concrete.

SCOPE OF SUPPLY WWTP #3:

- Provide and install new drive assembly and controls to match what we furnished on Plant #1.
- Provide and install new steel weir trough and scum baffle assemblies with drop box and 1/8" thick 304SS weir plates, hardware and seal tape.
- Provide and install all new 2 ½" diameter 304SS diffusers drop pipe assemblies in the aeration zones and digester. Number drop pipes to be as are existing in Plant #2. Each diffuser drop pipe assembly shall consist of a union to allow ease of removal, a lever operated ball valve accessible from the walkway for the purpose of shut off and regulation of air supply, and the necessary pipe and fittings. The drop pipe assembly to be of sch 10 304SS with 304SS wide band coarse bubble diffusers.



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- Furnish and install new supernatant pump assembly on guide rails with pump hoist and flex hose discharge. A manual on / off switch to be included mounting on handrails near pump hoist.
- Furnish and install new 304SS Sludge return box with steel airlift pipe assembly, air supply valve hose etc...
- Furnish and install new 304SS Sludge waste box with steel airlift pipe assembly, air supply valve hose etc.
- Furnish and install new 304SS scum trough assembly with steel discharge piping, supports as required and auto scum. The new trough will not extend into the existing stilling well.
- Furnish and install new skimmer arm assembly for a 6" diameter center shaft.
- Furnish and install new aluminum handrails on outside of peripheral walkway.
- Provide and install 1/8" aluminum splash plate to go under the walkway.
- Furnish and install new effluent overflow weir box in CL2, 304SS construction.
- Furnish and install grating clips with self-tapping screws.
- Provide and install approx. 40' outer wall trim angle, 3/8" x 3" x 3", rolled leg in to replace existing as needed in aeration 1 zone.
- Furnish and install new 304SS unistruct to support water lines, chlorine lines conduit etc. as required.
- Furnish and install approx. 40' of 10" channel to replace channel on top of bulkhead as needed.
- Furnish and install bent plate 6" x 1 ¹/₂" to replace peripheral toe plates as required.
- Furnish and install 8" channel to replace existing peripheral walkway supports as needed.
- Furnish and install 3" x 2" x ¼" angle to replace existing peripheral walkway supports as needed.
- Furnish and install 2 1/2" steel pipe to replace existing air header supports as required.
- Furnish and install 2 plates to repair bulkhead wall where contact trough is removed.
- Furnish and install 2 light support brackets. Locate same location as existing lights.
- Furnish and install 27' long section of walkway to replace section from concrete structure to plant #3. Include 3' x 3' walkway off to side for accessing and cleaning influent bar screen to be included. Existing aluminum grating will be reused.
- Furnish and install approx. 200' of aluminum handrails and toe plates to run from plant #3 to walkway between plant #1 & #2.
- Replace 8" walkway beams on walkway that ties into concrete structure and runs to interconnecting walkway between plants #1 and #2.
- Furnish and install miscellaneous aluminum to replace plate where influent box ties into influent trough.
- Remove approx.100' of trough that was used in the contact stabilization mode. Patch holes in bulkheads where trough went thru.



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- Existing walkway grating and splash plates to be removed and re-installed for blasting and painting.
- Repair gaps between outer wall and outer wall trim channel. Approx. 20' of welding required.
- Furnish and install all new 2" sch 80 pvc wash down piping, fittings and hose bibs. Support with 304SS unistruct.
- Furnish and install all new 1" chlorine line.
- Remove any items on plant that are not being used, like old support brackets, piping etc.
- Remove 3 channels on walkway between plant 3# and interconnecting walkway between plant #1 & #2.
- Install 2 new LED double headed light assemblies. Same as ones on existing new EQ tank
- Sweep blast and paint interior with 16 mils coal tar epoxy.
- Sweep blast and paint all items above walkway and exterior of plant with 5 mils epoxy, color to match existing. Exterior will not be painted below grade.

SCOPE OF SUPPLY WWTP #2:

- Provide and install new drive assembly and controls to match what we furnished on Plant #1.
- Provide and install new steel weir trough and scum baffle assemblies with drop box and 1/8" thick 304SS weir plates, hardware and seal tape.
- Provide and stall all new 2 ½" diameter 304SS diffusers drop pipe assemblies in the aeration zones and digester. Number drop pipes to be as are existing in Plant #2. Each diffuser drop pipe assembly shall consist of a union to allow ease of removal, a lever operated ball valve accessible from the walkway for the purpose of shut off and regulation of air supply, and the necessary pipe and fittings. The drop pipe assembly to be of sch 10 304SS with 304SS wide band coarse bubble diffusers.
- Furnish and install new supernatant pump assembly on guide rails with pump hoist and flex hose discharge. A manual on / off switch to be included mounting on handrails near pump hoist.
- Furnish and install new 304SS Sludge return box with steel airlift pipe assembly, air supply valve hose etc.
- Furnish and install new 304SS Sludge waste box with steel airlift pipe assembly, air supply valve hose etc.
- Furnish and install new 304SS scum trough assembly with steel discharge piping, supports as required and auto scum. The new trough will not extend into the existing stilling well.
- Furnish and install new skimmer arm assembly for a 4" diameter center shaft.
- Provide and install 1/8" aluminum splash plate to go under the peripheral walkway.



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- Furnish and install new effluent overflow weir box in CL2, 304SS construction.
- · Furnish and install grating clips with self-tapping screws.
- Furnish and install 304SS unistruct to support water lines, chlorine lines conduit etc. as required.
- Furnish and install material to replace top 48" of two bulkheads, one between digester & aeration 3 and one between aeration 2 & 3.
- Furnish and install bent plate 6 1/2" x 1 ¹/₂" to replace peripheral toe plates as required.
- Furnish and install 4" channel to replace existing peripheral walkway supports as needed.
- Furnish and install 2"x 2" x ¼" angle to replace existing peripheral walkway supports as needed.
- Furnish and install 2 ¹/₂" pipe to replace existing air header supports as required.
- Furnish and install 2 plates to repair bulkhead wall where contact trough is removed.
- Furnish and install 1 light support bracket. Locate same location as existing light.
- Furnish and install 3 new support brackets for aluminum influent trough where original brackets were installed.
- Furnish and install miscellaneous aluminum to replace plate where influent box ties into influent trough.
- Remove approx.100' of trough that was use in the contact stabilization mode.
- Existing walkway grating and splash plates to be removed and re-installed for blasting and painting.
- Furnish and install all new 2" sch 80 pvc wash down piping, fittings and hose bibs. Support with 304SS unistruct.
- Furnish and install all new 1" chlorine line.
- Remove any items on plant that are not being used, like old support brackets, piping etc.
- Remove 10' pipe that is not being used in the CL2 zone.
- Install 1 new LED double headed light assembly. Same as on exiting new EQ tank.
- Sweep blast and paint interior with 16 mils coal tar epoxy. Paint top 4' of the interior concrete outer wall.
- Sweep blast and paint all items above walkway and exterior of plant with 5 mils epoxy, color to match existing. Exterior will not be painted below grade.

SCOPE OF SUPPLY WWTP #1:

- Provide and install new steel weir trough and scum baffle assemblies with drop box and 18" thick 304SS weir plates, hardware and seal tape.
- Provide and stall all new 2 ½" diameter 304SS diffusers drop pipe assemblies in the aeration zones and digester. Number drop pipes to be as are existing in Plant #2. Each diffuser drop pipe assembly shall consist of a union to allow ease of removal, a lever



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operated ball valve accessible from the walkway for the purpose of shut off and regulation of air supply, and the necessary pipe and fittings. The drop pipe assembly to be of sch 10 304SS with 304SS wide band coarse bubble diffusers.

- Furnish and install new supernatant pump assembly on guide rails with pump hoist and flex hose discharge. A manual on / off switch to be included mounting on handrails near pump hoist.
- Furnish and install new 304SS Sludge return box with steel airlift pipe assembly, air supply valve hose etc.
- Furnish and install new 304SS Sludge waste box with steel airlift pipe assembly, air supply valve hose etc.
- Furnish and install new 304SS scum trough assembly with steel discharge piping, supports as required and auto scum. The new trough will not extend into the existing stilling well.
- Furnish and install new skimmer arm assembly for a 6" diameter center shaft.
- Furnish and install all new aluminum grating, handrails and toe plates on peripheral walkway.
- Furnish and install 3" x 3" x ¹/₄" angle for center support on peripheral walkway grating.
- Provide and install aluminum splash plate to go under the walkway.
- Furnish and install new effluent overflow weir box in CL2, 304SS construction.
- Furnish and install grating clips with self-tapping screws.
- Provide and install approx. 100' outer wall trim angle, 3/8" x 3" x 3" angle rolled leg in to replace existing as needed in aeration 1 zone.
- Furnish and install approx. 100' of 18" x ¼" steel plate to replace top of outer wall in aeration zone 1.
- Furnish and install 304SS unistruct to support water lines, chlorine lines conduit etc. as required.
- Furnish and install approx. 40' of 10" channel to replace channel on top of bulkhead as needed.
- Furnish and install bent plate 8" x 3" to replace peripheral toe plates as required.
- Furnish and install 2 plates to repair bulkhead wall where contact trough is removed.
- Furnish and install 2 light support brackets. Locate same location as existing lights.
- Furnish and install 34' long section of walkway to replace section from Plant 2 to Plant 1.
- Furnish and install aluminum handrails and toe plates for bridge walkway across clarifier and part of walkway to outer wall.
- Furnish and install new aluminum grating for bridge walkway across clarifier and part of walkway to outer wall.
- Furnish and install 3" x 2" x ¼" angle to support aluminum grating as required.
- Furnish and install 3 new support brackets for aluminum influent trough.



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- Furnish and install additional support channels and kicker on bulkhead between aeration 3 and digester consisting of two 15" channels x 30' long and 20' of 12" I-beam to be used as a kicker. Plate and anchors to be included.
- Furnish and install new aluminum handrails on existing stairway.
- Furnish and install new aluminum grating and required support steel for 36" x 36" stairway landing.
- Furnish and install miscellaneous aluminum to replace plate where influent box ties into influent trough.
- Remove approx.100' of trough that was use in the contact stabilization mode.
- Furnish and install all new 2" sch 80 pvc wash down piping, fittings and hose bibs. Support with 304SS unistruct.
- Furnish and install all new 1" chlorine line.
- Remove any items on plant that are not being used, like old support brackets, piping etc.
- Remove 54" x 54" opening rails and grating on walkway between plant and close walkway opening with new handrails.
- Install 2 new LED double headed light assemblies. Same as ones on existing new EQ tank
- Sweep blast and paint interior with 16 mils coal tar epoxy.
- Sweep blast and paint all items above walkway and exterior of plant with 5 mils epoxy, color to match existing. Exterior will not be painted below grade.

GUARANTEE:

• One (1) year from date of acceptance not to exceed eighteen (18) month from date of shipment.

ERECTION SCOPE:

Evoqua proposes to furnish labor, equipment and expendable materials to erect the equipment purchased on Evoqua Proposal Number 160124-A0.

- Customer is responsible to having the tanks drained and clean before Evoqua arrives on site.
- Evoqua is responsible for offloading the equipment supplied by Evoqua.
- All materials and equipment being removed by Evoqua during demolition to be disposed of on site.
- Evoqua is responsible for installing supplied accessories and/or equipment by normal fabrication and welding procedures.



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- Evoqua is responsible for providing the necessary construction equipment for erection (crane, welding machines, cutting equipment, etc.).
- 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.

FIELD CORROSON PROTECTION NOTES:

- 1. Field painting cannot be performed in inclement weather or when temperatures are below 45° F. Evoqua will not be responsible for delays in the project due to the weather conditions.
- 2. Due to the unknown integrity of the existing coating, and should additional blasting other than sweep blasting on existing steel be required, the customer will be responsible for any additional cost. The additional cost will be approved by customer before work is done.

ADDITIONAL REPAIR NOTE:

1. There may be other items in need of repair that are not known at this time. Evoqua will give customer a quote for any additional repairs before work is to be done.

NOT BY EVOQUA:

- Concrete or grout work
- Submittals
- · Start-up
- Bypassing of plants during rehab
- Interconnection field piping of any kind
- Drain valves
- Any work on blowers
- · Draining and cleaning of tanks
- · Disinfection equipment



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- Any items not attached to the plant
- · Taxes, Permits, Bonds
- · Any other equipment or items not expressly mentioned in this proposal