



LEMONS ENGINEERING CONSULTANTS, INC.

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## MONTHLY PROGRESS REPORT

### Ward Wastewater Treatment Facility Improvements - Ward, Arkansas

February 20, 2019

Construction Period January 16, 2019 – February 15, 2019

On January 16, 2019 Haren Construction completed cutting and removing walls from old wastewater plant, new sludge digester. Bill's Fencing started placing fence around site. On January 17 contractor core drilled east side wall on south end of new sludge digester for 2 - 4" and 1 - 6" pipes. They completed placing air lines to the post aeration tank on January 21, 2019. On January 22, they placed sludge waste line, 4", placed piping for 6" telescopic valve and 4" sludge draw off line. On January 23, contractor placed 6" telescopic valve, cut slots in north side wall of old chlorination tank (2-12" x 36" & 1-18" x 36"). They also pulled air line in for actuator valve for the new digester. On January 24, 2019 Haren placed top on vault at wet well, formed & poured supports in vault for pipes & valves, formed & poured supports for 6" discharge pipe from belt press, temped outfall lines from old weir to new weir. On January 25 contractor received gravel for slabs at the press plant and head works. On January 28, 2019 water was pumped out of new post aeration tanks. Aeromod reps (Marvin & Ben) were on-site on January 29 to do start up on sludge digesters. Contractor worked on forming dumpster slab at headworks and slab in front of press plant on January 30<sup>th</sup>. On the 31<sup>st</sup> they poured the slab at the press plant & dumpster pad at headworks, for a total of 19 yards of concrete. Walk through was performed with Haren Construction, City of Ward, and Lemons Engineering on this day as well. On February 4 they removed forms from slabs poured at press plant & headworks, started placing forms for sidewalks around press plant building, placed rip rap around culverts and at outfall. On February 5, 2019 they completed placing air lines and defusers in post aeration tank. RBE checked directions of pumps in wet well. 118 LF of Sidewalks were poured around press plant building on February 6. On February 7, 2019 forms were removed from sidewalks, formed & poured supports for air line at digester tank (2-8") and post aeration tank (1-4"). On February 8 contractor worked on gates at headworks. The City of Ward discovered that the nuts that hold the tube for the UV were missing. On February 11 Haren met with Tony (City of Ward) about pumps in wet well (high volume lights stay on). Pumps do not appear to keep up with the flow when the plant is wasting. Rodney Cowart (Inspector for Lemons Engineering) called Steve Kirby (Haren) & informed him about the missing nuts from the tube holders and concerns about the pumps in wet well. Steve said they would address these issues. On February 12, Tim Lemons and Rodney (Lemons Engineering) met with Bruce and Tony (City of Ward) about UV problems and wet well pumps. On February 13, 2019 Rodney met with Phillip Weston (Mr. Canopy, Inc.) about cover for UV and blowers. Bruce, Tony, Calvin (New Water Systems), & Rodney met about missing nuts on UV and pump in wet well. Contractor met with Eugene (American Inteplex) to pull first sample at outfall. On February 14 they met with Bruce, Tony, & James (representative for Jack Tyler Engineering) to check out pump in wet well, tested pumps and switches and adjusted floats.

Ten (10) rain days were experienced during this construction period. The total number of rain days to date stands at ninety two (92).

At present, the project appears to be 99% complete, as per this request dated February 20, 2019.

582 days have elapsed in the contract as of the date of this Progress Report.

Work has been suspended due to weather.

Problems encountered during this construction period have been as follows:

- Weather (can not complete dirt work);
- UV tube holder nuts missing;
- Pumps in wet well.

The anticipated next month's schedule consists of: Completion Project, weather permitting.

Report prepared by:

A handwritten signature in black ink, appearing to read 'Tim Lemons', written in a cursive style.

Tim Lemons, PE, President