

## Thomas Harrington (adpce.ad)

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**From:** Terry Long <eswwtp@yahoo.com>  
**Sent:** Friday, February 9, 2024 4:09 PM  
**To:** Thomas Harrington (adpce.ad); Richard Healey (adpce.ad); Leslie Allen-Daniel (adpce.ad)  
**Cc:** Simon Wiley; Zane Lewis; Spencer Briggs  
**Subject:** AR0021865 UPDATE - February 9 2-24

Mr. Harrington,

Following is the update from the Eureka Springs wastewater treatment plant for Friday February 9 , 2024.

The effluent continues to look good, being clear and containing only very few solids particles with little to no discoloration as it should. Sludge wasting rates continue to be evaluated and adjusted to accommodate the decrease in both ambient temperature and the incoming BOD and TSS levels.

Concerning the status of the UV disinfection unit, no progress has been made this week. Both UV modules are still working although the communication between the control panel and one of the UV modules continues to be a problem. We will be in contact with the field service technician to get his advice on what we need to do next. We are still following our new SOP for SSOs at the wastewater treatment plant including notification of residents living downstream from the treatment plant as well as the general public and encouraging people to follow our Facebook page for further updates.

Concerning the overflow event at the main lift station that we experienced on Thursday January 11, 2024, we have placed on order enough seal sets to allow us to open each pump to inspect the impeller and evaluate the gap between the impeller and the pump housing to determine if the impeller needs to be replaced. We have also ordered several sets of shims so we can adjust the impeller gap if needed, as well as new air relief valves. We are hopeful that these items will arrive next week so we can get the pumps inspected and the lift station back on line. Air relief pumps in the lift station continue to be functional and operating as they should, so our wastewater influent continues to be again directed back through our Lakeside equipment as it should be. We are still not sure why or how the pumps lost prime, but we feel as though it was caused by one of two things, either old and cracked or dried out seals, or there is too much gap between the pump impeller and the pump housing. We have placed on order five(5) sets of O-Ring seals, one set for each of the four (4) pumps in the lift station and one set to hold in reserve as spare parts. When these parts arrive, we are going to have a service tech come in to check the alignment gap of the impeller for each pump, replace all the seals and replace the air relief valves.

We are continuing to collect samples from the creek three (3) times per week to monitor the fecal coliform levels in the creek upstream from our discharge, downstream from our discharge and at the point in the creek where our discharge enters the creek. So far we have collected and submitted samples on seven (7) days and have received results from five (5) of those days, with the results showing less than 100 colonies per 100 ml, both upstream from our discharge as well as at the point of confluence of our discharge and the creek with the results showing elevated levels of fecal coliform further down stream from our treatment plant. We will continue to collect samples and have them analyzed according to the procedures previously set forth until given permission to stop.

During the ZOOM meeting that was recently held with members of ADEQ and the city of Eureka Springs, it was requested that we also start sharing the results of our fecal coliform testing as well as

our Total Suspended Solids (TSS) in our weekly updates. Below are the test results for TSS and FECAL (both effluent and when our effluent mixes with the creek).

Parameter	Date	NPDES Test	Test Result
TSS	1/10/2024	YES	2.7 mg/L
TSS	1/14/2024	YES	< 2.5 mg/L
TSS	1/24/2024	YES	< 2.5 mg/L
FECAL	1/11/2024	YES	3.0/ 100 ml
FECAL	1/18/2024	YES	< 1.0/ 100 ml
FECAL	1/25/2024	YES	< 2.0/ 100 ml
FECAL	1/26/2024	NO	65.1/
100ml			
FECAL	1/29/2024	NO	64.4/ 100ml
FECAL	1/31/2024	NO	30.0/ 100 ml
FECAL	2/2/2024	NO	20.0 / 100 ml
FECAL	2/5/2024	NO	41.0 / 100 ml
FECAL	2/7/2024	NO	Awaiting results
FECAL	2/9/2024	NO	Awaiting results

I trust that I have provided all the information that was requested and needed. If you require any additional information, please feel free to reach out and I will provide that as quickly as possible. I have made a note to continue to update you with the progress being made and I will submit another report to you on Friday February 16, 2024.

Thank you,

Terry Long, Plant Manager  
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