

## **Thomas Harrington (adpce.ad)**

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**From:** Terry Long <eswwtp@yahoo.com>  
**Sent:** Friday, February 23, 2024 4:00 PM  
**To:** Thomas Harrington (adpce.ad); Richard Healey (adpce.ad); Leslie Allen-Daniel (adpce.ad)  
**Cc:** Simon Wiley; Zane Lewis; Spencer Briggs  
**Subject:** AR 0021865 UPDATE - February 23, 2024

Mr. Harrington,

Following is the update from the Eureka Springs wastewater treatment plant for Friday February 23 , 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 received all the parts ordered and are currently waiting of the service technician to arrive to install these parts. At this time all the 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 any dried out seals, or there is too much gap between the pump impeller and the pump housing. Additionally, the O-ring seals ordered have now been received so they can be replaced as well when the service technician arrives.

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 a total of nineteen(19) days and have received results from sixteen (16) of those days. The test results from those fifteen (15) of those sixteen (16) days show a test result of less than 100 colonies per 100 ml. Additionally, we have sampled upstream from our discharge on thirteen (13) days having received results from eleven (11) with nine (9) of those eleven days showing a test result of greater than 100 colonies per 100 ml.. 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
TSS	2/7/2024	YES	2.5 mg/L
TSS	2/14/2024	YES	2.5 mg/L
TSS	2/21/2024	YES	Awaiting Results
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	< 10.0 / 100 ml
FECAL	2.8.2024	YES	1.0/ 100 ml
FECAL	2/9/2024	NO	< 10.0/ 100 ml
FECAL	2/12/2024	NO	41.0/ 100 ml
FECAL	2/14/2024	NO	211.0/ 100 ml
FECAL	2/15/20224	YES	< 1.0/ 100 ml
FECAL	2/16/2024	NO	17.3/ 100 ml
FECAL	2/19/2024	NO	1173.0/ 100 ml
FECAL	2/21/2014	NO	Awaiting Results
FECAL	2/22/2024	YES	Awaiting Results
FECAL	2/23/2023	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 March 1, 2024.

Thank you,

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