

NON-COMPLIANCE REPORT

Arkansas Department of Environmental Quality
Office of Water Quality – Enforcement Branch
5301 Northshore Drive
North Little Rock, AR 72118

RE: Permit No: AR0020010 Discharge Number: Outfall 001

Facility: Paul R. Noland Waste Water Treatment Facility

Address: 1400 N Fox Hunter Road

City: Fayetteville State: Arkansas Zip: 72701

Contact: Thom Vinson Phone: 479-443-3292

Date of Non-Compliance	Parameter Exceeded	Quantity or Loading	Quality or Concentration	Permit Limits
9/27/2022	Fecal Coliform 7-day Maximum		>519.57 MPN/100mL	400

We feel this problem was due to:

On 9/27/2022 at 9.12 am, it was discovered that the MLSS (Mixed Liquor Suspended Solids) concentration was below target in both east & west aeration basins at Paul R Noland WWTF (AR0020010) in Fayetteville, AR, which was brought on by a solids control failure. At 9.59 am, RAS (Returned Activated Sludge) pumps were placed in hand to get the MLSS back on target. At 11.00 am the RAS pump for the west aeration basin faulted & was taken out of service. At 11.55 am all flow to the west aeration basin was stopped & all flow was diverted to the east aeration basin with target RAS. On 9/28/2022 at 5.23 am, a failure with the RAS control PLC (Programmable Logic Controller) shut down & output faulty run signals to the SCADA system. At 6.46 am, Lab read the fecal coliform grab results from previous day (collected at 11.05 am, f. coliform set up at 11.19, 9/27/2022) which resulted in a >12098.0 MPN/100 mL on a 1:5 dilution of Outfall 001 grab sample. The decrease in MLSS had reduced biological removal, which increased ozone demand & hindered disinfection. Discharge to the White Rivers was halted at 7.32 am (9/28/2022) and process was diverted to holding pond.

We plan on correcting the problem in this manner:

Discharge to the White Rivers was halted at 7.32 am (9/28/2022) and process was diverted to holding pond; RAS PLC Control failure was corrected & RAS flow was resumed to the east basin; Additionally alarms have been added to SCADA to add lead time on equipment failure detection; RAS pump replacement for west aeration basin has been placed in service; Additional lab TSS (Total Suspended Solids) tests are being done to ensure all MLSS monitoring & control equipment is operating correctly; Ozone dose increased to handle spike in Fecal Coliform population.

Time estimated that it will take to correct problem:

Problem was corrected within 33 hrs of initial sampling reading (6.46am 9/28/2022). On 9/29/2022 at 3.18 pm, operation process lab results indicated the biological treatment had recovered & discharge to the White River was resumed.

Sincerely,



Submitted By:

13 Oct 2022
Date

Submitted electronically via NetDMR

Certification Statement: I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. (Revised March 2016)