

Anderson, Alan

From: Jennifer <jenos@springdalewater.com>
Sent: Monday, September 17, 2018 10:08 AM
To: Healey, Richard; Pemberton, Layne; Johnson, Miles; Anderson, Alan
Cc: Heath; Brad; Loren; Shannon; Tiffany
Subject: RE: NPDES Permit No. AR0022063 - Springdale WWTF plant upset

All:

Please allow this to serve as an update to the original email sent out last Monday.

Springdale's WWTF has experienced a third 7 day average NH₃-N excursion. For the week of September 9 – 15, the average was 4.36 mg/L, well above the permit limitation of 2.3 mg/L. Operations staff continue to check the receiving stream with no apparent environmental impact observed.

We do not believe that there has been any overt toxicity since the original event, although a less severe toxicity affecting nitrifiers but not indicator microorganisms cannot be ruled out. Repeated microscopic examination of the mixed liquor yields excellent results. However, the facilities have been hit with excessive organic loading the last three weeks on top of the original toxicity. Source confirmation is underway, and it is believed that organic loading will be addressed through pretreatment processes that are currently under construction within our system. This excess loading has made recovery extremely difficult. In response to that loading, staff has put the fourth and final process train in service effective September 14, 2018. This new train was fully operational with good ammonia removal within 48 hours of going into service. The current plan is to continue to run all four trains as long as the facility is organically loaded above the design capacity of three trains. (Note: hydraulic design is 24 MGD, with an average of around 14 MGD coming into the plant, so the additional train is being used strictly for treatment of organics.)

Effluent NH₃-N for yesterday, September 16, 2018 was 0.12 mg/L. Results later this week will show whether the additional biomass and aeration afforded by the fourth train is sufficient to maintain low ammonia results for the rest of the week.

As before, please do not hesitate to call/email me if you have any questions concerning this event or our actions to monitor and mitigate.

Sincerely yours,

Jennifer E. Enos
Wastewater Facilities Director
Springdale Water Utilities
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Springdale, AR 72765-0769
jenos@springdalewater.com

From: Jennifer
Sent: Monday, September 10, 2018 5:55 PM
To: 'Healey, Richard' ; 'pemberton@adeq.state.ar.us' ; 'Johnson, Miles' ;
'anderson@adeq.state.ar.us'
Cc: Heath ; Brad ; Loren ; Shannon ; Tiffany
Subject: NPDES Permit No. AR0022063 - Springdale WWTF plant upset

All:

Per my conversation with Mr. Richard Healey, ADEQ, on September 7, 2018, attached is a timeline of events and actions taken over the last two weeks as they pertain to a plant upset originally reported to ADEQ by Springdale Water Utilities on August 31, 2018. This report will be refined, revised, and updated during the month of September, and a finalized version will be sent to each of you and attached to Springdale's September 2018 DMR. Verbal reports will also be made if this event continues past this date.

Please do not hesitate to email or call me at 479-756-3657 if you have any questions concerning this preliminary report or the actions taken. Springdale Water Utilities is proud of its long-standing record of compliance prior to this upset and is making every effort to identify the source(s) of toxicity and prevent any future excursions.

Sincerely yours,

Jennifer E. Enos
Wastewater Facilities Director
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