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June 3, 2013

Mr. Kevin Suel
Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118-5317

Re: City of Walnut Ridge
NPDES Permit No. AR0046566
CAO LIS No.: 10-156
CAO Quarterly Report – 1st Quarter 2013

Dear Mr. Suel:

The City of Walnut Ridge is permitted to discharge treated effluent from their wastewater treatment plant (WWTP) under National Pollutant Discharge Elimination System (NPDES) Permit No. AR0046566. Walnut Ridge and the Arkansas Department of Environmental Quality (ADEQ) entered into a Consent Administrative Order on April 8, 2011 (CAO LIS 10-156). Requirements in this CAO state that Walnut Ridge must submit periodic reports to document ongoing and future activities. Garver, LLC would like to submit this 2013 1st Quarter Report on behalf of the City of Walnut Ridge to meet this requirement. Listed below are activities that the City of Walnut Ridge has performed in the 1st quarter of 2013 and activities to be completed in the 2nd Quarter of 2013. The next report to be submitted will be the final compliance report on or before August 31, 2013.

Activity

During the 1st Quarter of 2013 Walnut Ridge and Garver completed the following items to both improve WWTP performance and comply with requirements stated in NPDES Permit No. AR0046566. Top priorities for the year were to establish a healthy biomass for treatment in the aeration basin and to determine the source of toxicity. Garver has provided WWTP operational recommendations to assist the staff in developing a more effective treatment biomass by increasing sludge wasting and reducing air flow to diffusers after significant rainfall events to retain the existing biomass.

Garver has recommended that Walnut Ridge initiate a Sanitary Sewer Evaluation Survey to locate and quantify inflow and infiltration (I/I). During periods of heavy rainfall the WWTP experiences a spike in influent volume that hydraulically overloads the treatment system. Hydraulic overloading can dilute the biomass thus reducing the treatment efficiency of the WWTP. By identifying areas in the collection system with high I/I the City can develop a prioritized sewer rehabilitation program to repair or replace pipeline and manholes that are contributing to the increased WWTP loading after rainfall events. Listed below are repairs, WWTP improvement recommendations, and other activities completed by the Walnut Ridge WWTP personnel and Garver during the 1st Quarter of 2013.

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1. Reviewed monthly Discharge Monitoring Reports (DMR's). Information is being analyzed for trends.
2. Reviewed WWTP flow data compared to precipitation to determine if infiltration and inflow to the collection system is occurring. Infiltration and inflow are contributing to large flows at the WWTP. This hydraulically overloads the WWTP, which in turn prohibits the retention of the biomass within the aeration basin. A collection system flow study has been proposed and is awaiting approval from the City of Walnut Ridge.
3. WWTP staff performed settling tests in-house to identify general age of sludge through visual inspection.
4. Collected effluent ammonia samples daily, and mixed liquor samples twice per week.
5. Submitted Final TRE report.

Listed below are tasks to be completed in the 2nd quarter of 2013:

1. Continue sampling to meet permit requirements and to provide data necessary to determine the treatment efficiency of the WWTP.
2. Continue to perform MLSS tests.
3. Obtain funding for flow study.

We appreciate your time in reviewing this document. Please call me at (501) 376-3633 if you have any questions.

Sincerely,

GARVER, LLC



Digitally Signed
2013-06-03 14:16:05:00

Aaron Stallmann, P.E.
Project Manager

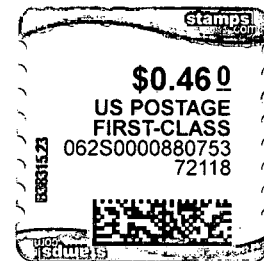
CC: Jon Kopp – Walnut Ridge

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