

October 26, 2015

Larry Dunaway, Public Works Director City of Nashville 426 North Main St Nashville, AR 71852

RE: City of Nashville WWTP Inspection (Howard Co)

AFIN: 31-00036 NPDES Permit No.: AR0021776

Dear Mr. Dunaway:

On October 13, 2015, I performed a Reconnaissance Inspection of the above-referenced facility in accordance with the provisions of the Federal Clean Water Act, the Arkansas Water and Air Pollution Control Act, and the regulations promulgated thereunder. A copy of the inspection report is enclosed for your records.

No violations were noted at the time of the inspection. Please refer to the attached inspection report for any comments.

If I can be of any assistance, please contact me at mccabe@adeq.state.ar.us or (501) 682-0642.

Sincerely,

Kerri McCabe Inspector Supervisor

Kerri M'Caly

Water Division

cc: Larry Dunaway, City of Nashville, Public Works Director, larry19211@gmail.com

	V DEO	WATER DIVISION INSPECTION REPORT								
A R K A N S A S Department of Environmental Quality			AFIN: 31-00036 PERMIT #: AR0021776				DATE: 10/13/2015			
			DUNTY: 31 Howa	rd	PDS #: 087333		087333		MEDIA: WN	
			S LAT: 33.91993	8 LONG: LOCATION: Entra			ince			
	FACILITY INFORMAT	INSPECTION INFORMATION								
	EY of Nashville WWTP	FACILITY TYPE: 1 - Municipal	84	ECTOR ID#: 022 S - State						
	3 Hwy 27 South	FACILITY EVALUATION RATIN			Reconnaissance					
	shville, AR	(-)	NTRY TIM 19:30	E:	EXIT TIME: 10:30		FECTIVE DATE:			
	RESPONSIBLE OFFIC	10/13/2013	3.30		10.50	7/1/20)14 (PIRATION DATE:			
NAME: / TITLE							6/30/2	2019		
	rry Dunaway / Public Works Dire	FAYETTEVILLE SHALE RELATED: N								
	y of Nashville			FAYETTEVILLE SHALE VIOLATIONS: N						
	ing address: 6 North Main St			INSPECTION PARTICIPANTS						
	STATE, ZIP:			NAME/TITLE/PHONE/FAX/EMAIL/ETC.:						
	shville AR 71852			Larry Dunaway/Public Works Director/(870) 845-4015						
	NE & EXT: / FAX:	Chip Colston/WW Chief Operator/(870) 845-4522								
	0-845-4015 /									
lar	ry19211@gmail.com									
	NTACTED DURING INSPECTION:									
			AREA EVA	LUATIONS						
(S=Satisfactory, M=Marginal, U=Unsatisfactory, N=Not Applicable/Evaluated)										
N	PERMIT	N	FLOW MEASUR	REMENT		N STORMW				
N	RECORDS/REPORTS	Ν	LABORATORY			N FACILITY SITE REVIEW				
S	OPERATION & MAINTENANCE	Ν	EFFLUENT/REC	CEIVING WATER			SELF-MOI	ONITORING PROGRAM		
N	SAMPLING	N	N SLUDGE HANDLING/DISPOSAL			l F	PRETREA	TMENT		
**	** OTHER:									
	STIMMARY OF FINDINGS									

No violations were noted during the inspection.

City is currently under a CAO and must continue to work with the Water Division's Enforcement Branch to resolve the CAO.

Inspection Report: City of Nashville WWTP, AFIN: 31-00036, Permit #: AR0021776

GENERAL COMMENTS

On Tue October 13, 2015 a reconnaissance inspection was conducted on the City's WWTP in response to a complaint. The complainant was concerned for excessive algae and sludge noted in the plant's EQ basin.

The City recently brought new components of the WWTP online (July 2015). This included brand new components as well as converted components. The plant's three-cell facultative lagoon had been converted into two activated sludge basins and an EQ basin. In order to install the aeration system in the two converted activated sludge basins, the City has had to remove accumulated sludge from Pond #1 and Pond #2. The City diverted the excess sludge to the EQ basin. This resulted in sludge accumulating at the gates of the two ponds. Vegetation consisting of wetland species (i.e., rushes) had grown on the two sludge "islands" in the EQ basin. Water volume in the EQ basin was at a seasonal low, and this had increased the visibility of the sludge from the highway.

It is common for WWTP to store sludge in the EQ basin; however, it is designed to divert excess inflow during wet-weather and/or for emergency situations such as sludge management to maintain effluent quality. As allowed by their NPDES permit, the City is managing their sludge to maintain/improve effluent quality.

The City was working on resolving the sludge buildup when I arrived onsite. They stated that they would be removing the vegetation (mechanical means only; no pesticides in EQ basin) and utilizing a boat to break up the sludge islands, and that it would take a couple of days for each sludge island.

The City is still working on removing the accumulated sludge and excess vegetation in the converted aeration basins. This will ensure that sludge routed to the clarifiers is suitable for secondary treatment as well as sufficient for RAS back to the aeration basins. Pin floc (indicative of old sludge) is still present in both clarifiers. The sludge blankets in both clarifiers are increasing, but the City has not accumulated enough sludge to waste.

Excessive algae remain problematic. The City has started adding polymer prior to the clarifiers to control algae and settle sludge, and the City historically utilized DAF units prior to the plant conversion. City is looking at chemical (without Cu) and ultrasonic algae control.

Follow-up inspection to be conducted on Tue Oct 27, 2015.

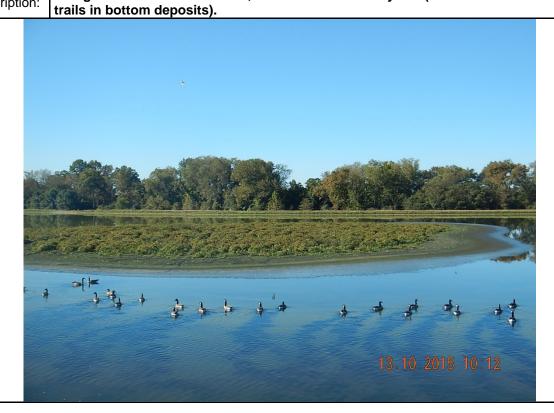
Kerri Mª Coly	
INSPECTOR'S SIGNATURE:Kerri McCabe	DATE: 10/26/2015
Jana Rellaborar	
SUPERVISOR'S SIGNATURE: / Jason Bolenbaugh	DATE: 10/26/2015

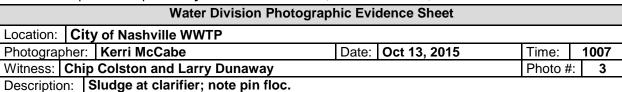
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Water Division Photographic Evidence Sheet								
Location:	City	of Nashville WWTP						
Photographer:		Kerri McCabe	Date:	Oct 13, 2015	Time:	1013		
Witness: Chip Colston and Larry Dunaway					Photo #:	1		
Description: Cludge island outside Band #1, vegetation consists of watland energies								



Photographer	: Kerri McCabe	Date:	Oct 13, 2015	Time:	1012
Witness: Chi	Photo #:	2			
Description:	Geese lea	ving			







Photographer:Kerri McCabeDate:Oct 13, 2015Time:1008Witness:Chip Colston and Larry DunawayPhoto #:4



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Figure 1. Google Earth image dated Nov 6, 2014 showing the converted three-cell lagoon into two aeration basins (Ponds #1 and #2) and EQ basin; approximate size and location of sludge islands.

