

ADEQ

A R K A N S A S
Department of Environmental Quality

June 30, 2017

Steve Mallett, Chief Executive Officer
City Corporation
P.O. Box 3186
Russellville, AR 72811

RE: Russellville City Corporation Inspections (Pope Co)
AFIN: 58-00105 **Permit No.: AR0021768**
AR0021768C3
5126-W

Dear Mr. Mallett:

On June 8 and 9, 2017, I performed inspections of the above-referenced permits in accordance with the provisions of the Federal Clean Water Act, the Arkansas Water and Air Pollution Control Act, and the regulations promulgated thereunder. Copies of the inspection reports are enclosed for your records.

Please refer to the "Summary of Findings" sections of each of the attached inspection reports and provide a written response for each violation that was noted. This response should be mailed to the attention of the Water Division Inspection Branch at the address at the bottom of this letter or e-mailed to Water-Inspection-Report@adeq.state.ar.us. This response should contain documentation describing the course of action taken to correct each item noted. This corrective action should be completed as soon as possible, and the written response with all necessary documentation (i.e., photos) is due by **July 14, 2017**.

If I can be of any assistance, please contact me at beck@adeq.state.ar.us or (479) 968-7339 ext. 16.

Sincerely,



Amy Beck
District 5 Field Inspector
Water Division

 A R K A N S A S Department of Environmental Quality		WATER DIVISION INSPECTION REPORT				
		AFIN: 58-00105		PERMIT #: AR0021768		DATE: 6/8/2017
		COUNTY: 58 Pope			PDS #: 097841	MEDIA: WN
		GPS LAT: 35.249132 LONG: -93.116114 LOCATION: Entrance				
FACILITY INFORMATION			INSPECTION INFORMATION			
NAME: Russellville City Corporation LOCATION: 404 Jimmy Lile Road CITY: Russellville			FACILITY TYPE: 1 - Municipal INSPECTOR ID#: 36537 S - State FACILITY EVALUATION RATING: 3 - Satisfactory INSPECTION TYPE: Compliance Evaluation			
RESPONSIBLE OFFICIAL			DATE(S): 6/8/2017 ENTRY TIME: 09:00 EXIT TIME: 16:00 PERMIT EFFECTIVE DATE: 9/1/2016 PERMIT EXPIRATION DATE: 8/31/2021			
NAME / TITLE: Steve Mallett / Chief Executive Officer COMPANY: City Corporation MAILING ADDRESS: P.O. Box 3186 CITY, STATE, ZIP: Russellville AR 72811 PHONE & EXT. / FAX: 479-968-2105 113 / 479-968-3265 EMAIL: smallett@citycorporation.com			FAYETTEVILLE SHALE RELATED: N FAYETTEVILLE SHALE VIOLATIONS: ***			
CONTACTED DURING INSPECTION: Yes			INSPECTION PARTICIPANTS			
			NAME/TITLE/PHONE/FAX/EMAIL/ETC.: Randy Bradley, Wastewater Operations Manager, 479-968-2080 ext. 224; rbradley@citycorporation.com; Ches Jackson, Operator; Tony Sanchez, City Corp. Lab			
AREA EVALUATIONS						
(S=Satisfactory, M=Marginal, U=Unsatisfactory, N=Not Applicable/Evaluated)						
S	PERMIT	S	FLOW MEASUREMENT	N	STORMWATER	
S	RECORDS/REPORTS	S	LABORATORY	S	FACILITY SITE REVIEW	
M	OPERATION & MAINTENANCE	S	EFFLUENT/RECEIVING WATER	S	SELF-MONITORING PROGRAM	
S	SAMPLING	S	SLUDGE HANDLING/DISPOSAL	N	PRETREATMENT	
**	OTHER:					
SUMMARY OF FINDINGS						
1. DMR review shows several exceedances of effluent limits listed in Part I, Section A of the permit. Non-compliance reports have been submitted and no further action is required at this time.						
2. Treatment components are not operating or not properly maintained as required by Part III, Section B. 1. of the permit. Specifically, neither the west grit remover nor the west primary clarifier is operational and algae need to be removed from secondary Clarifier 3.						
GENERAL COMMENTS						
The treatment system consists of bar screens, grit removal, primary clarifiers, activated sludge, secondary clarifiers, chlorine disinfection, and sulfur dioxide dechlorination. Sludge is aerobically digested, dewatered through a belt press, and then processed through the Schwing Bioset process.						
This inspection includes routine inspections of the treatment system, biosolids, lab, collection system, and construction project. I reviewed DMR from June 1, 2016 through May 31, 2017 with detailed record review for three months.						
INSPECTOR'S SIGNATURE: 			Amy Beck		DATE: 6/13/2017	
SUPERVISOR'S SIGNATURE: 			Kerri McCabe		DATE: 6/29/2017	

SECTION A: PERMIT VERIFICATION	
PERMIT SATISFACTORILY ADDRESSES OBSERVATIONS	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
DETAILS:	
1. CORRECT NAME AND MAILING ADDRESS OF PERMITTEE:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
2. NOTIFICATION GIVEN TO EPA/STATE OF NEW DIFFERENT OR INCREASED DISCHARGES:	<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE
3. NUMBER AND LOCATION OF DISCHARGE POINTS AS DESCRIBED IN PERMIT:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
4. ALL DISCHARGES ARE PERMITTED:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
SECTION B: RECORDKEEPING AND REPORTING EVALUATION	
RECORDS AND REPORTS MAINTAINED AS REQUIRED BY PERMIT	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
DETAILS:	
1. ANALYTICAL RESULTS CONSISTENT WITH DATA REPORTED ON DMRS:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
2. SAMPLING AND ANALYSES DATA ADEQUATE AND INCLUDE:	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
a. DATES AND TIME(S) OF SAMPLING:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
b. EXACT LOCATION(S) OF SAMPLING:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
c. NAME OF INDIVIDUAL PERFORMING SAMPLING:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
d. ANALYTICAL METHODS AND TECHNIQUES:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
e. RESULTS OF CALIBRATIONS:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
f. RESULTS OF ANALYSES:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
g. DATES AND TIMES OF ANALYSES:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
h. NAME OF PERSON(S) PERFORMING ANALYSES:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
3. LABORATORY EQUIPMENT CALIBRATION AND MAINTENANCE RECORDS ADEQUATE:	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
4. PLANT RECORDS INCLUDE SCHEDULES, DATES OF EQUIPMENT MAINTENANCE AND REPAIR:	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
5. EFFLUENT LOADINGS CALCULATED USING DAILY EFFLUENT FLOW AND DAILY ANALYTICAL DATA:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
SECTION C: OPERATIONS AND MAINTENANCE	
TREATMENT FACILITY PROPERLY OPERATED AND MAINTAINED	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
DETAILS:	
1. TREATMENT UNITS PROPERLY OPERATED:	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
2. TREATMENT UNITS PROPERLY MAINTAINED:	<input type="checkbox"/> S <input checked="" type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
3. STANDBY POWER OR OTHER EQUIVALENT PROVIDED:	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
4. ADEQUATE ALARM SYSTEM FOR POWER OR EQUIPMENT FAILURES AVAILABLE:	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
5. ALL NEEDED TREATMENT UNITS IN SERVICE:	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
6. ADEQUATE NUMBER OF QUALIFIED OPERATORS PROVIDED:	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
7. SPARE PARTS AND SUPPLIES INVENTORY MAINTAINED:	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
8. OPERATION AND MAINTENANCE MANUAL AVAILABLE:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
9. STANDARD OPERATING PROCEDURES AND SCHEDULES ESTABLISHED:	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input checked="" type="checkbox"/> NE
10. PROCEDURES FOR EMERGENCY TREATMENT CONTROL ESTABLISHED:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
11. HAVE BYPASSES/OVERFLOWS OCCURRED AT THE PLANT OR IN THE COLLECTION SYSTEM IN THE LAST YEAR:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
12. IF SO, HAS THE REGULATORY AGENCY BEEN NOTIFIED:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
13. HAS CORRECTIVE ACTION BEEN TAKEN TO PREVENT ADDITIONAL BYPASSES/OVERFLOWS:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
14. HAVE ANY HYDRAULIC OVERLOADS OCCURRED AT THE TREATMENT PLANT:	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
15. IF SO, DID PERMIT VIOLATIONS OCCUR AS A RESULT:	<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE

SECTION D: SAMPLING	
PERMITTEE SAMPLING MEETS PERMIT REQUIREMENTS	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
DETAILS:	
1. SAMPLES TAKEN AT SITE(S) SPECIFIED IN PERMIT:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
2. LOCATIONS ADEQUATE FOR REPRESENTATIVE SAMPLES:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
3. FLOW PROPORTIONED SAMPLES OBTAINED WHEN REQUIRED BY PERMIT:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
4. SAMPLING AND ANALYSES COMPLETED ON PARAMETERS SPECIFIED IN PERMIT:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
5. SAMPLING AND ANALYSES PERFORMED AT FREQUENCY SPECIFIED IN PERMIT:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
6. SAMPLE COLLECTION PROCEDURES ADEQUATE:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
a. SAMPLES REFRIGERATED DURING COMPOSITING:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
b. PROPER PRESERVATION TECHNIQUES USED:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
c. CONTAINERS AND SAMPLE HOLDING TIMES CONFORM TO 40 CFR 136:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
7. IF MONITORING IS PERFORMED MORE OFTEN THAN REQUIRED ARE RESULTS REPORTED ON THE DMR:	<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE
SECTION E: FLOW MEASUREMENT	
PERMITTEE FLOW MEASUREMENT MEETS PERMIT REQUIREMENTS	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
DETAILS:	
1. PRIMARY FLOW MEASUREMENT DEVICE PROPERLY INSTALLED AND MAINTAINED: <u>Y</u> TYPE OF DEVICE: <u>5 ft rectangular weir with end contractions</u>	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
2. FLOW MEASURED AT EACH OUTFALL AS REQUIRED:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
3. SECONDARY INSTRUMENTS (TOTALIZERS, RECORDERS, ETC.) PROPERLY OPERATED AND MAINTAINED:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
4. CALIBRATION FREQUENCY ADEQUATE:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
5. RECORDS MAINTAINED OF CALIBRATION PROCEDURES:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
6. CALIBRATION CHECKS DONE TO ASSURE CONTINUED COMPLIANCE:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
7. FLOW ENTERING DEVICE WELL DISTRIBUTED ACROSS THE CHANNEL AND FREE OF TURBULENCE:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
8. FLOW MEASUREMENT EQUIPMENT ADEQUATE TO HANDLE EXPECTED RANGE OF FLOW RATES:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
9. HEAD MEASURED AT PROPER LOCATION:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
SECTION F: LABORATORY	
PERMITTEE LABORATORY PROCEDURES MEET PERMIT REQUIREMENTS	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
DETAILS:	
1. EPA APPROVED ANALYTICAL PROCEDURES USED (40 CFR 136.3 FOR LIQUIDS, 503.8(B) FOR SLUDGES) :	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
2. IF ALTERNATIVE ANALYTICAL PROCEDURES ARE USED, PROPER APPROVAL HAS BEEN OBTAINED:	<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE
3. SATISFACTORY CALIBRATION AND MAINTENANCE OF INSTRUMENTS AND EQUIPMENT:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
4. QUALITY CONTROL PROCEDURES ADEQUATE:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
5. DUPLICATE SAMPLES ARE ANALYZED \geq 10% OF THE TIME:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
6. SPIKED SAMPLES ARE ANALYZED \geq 10% OF THE TIME:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
7. COMMERCIAL LABORATORY USED:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
a. LAB NAME: <u>Arkansas Analytical via EEG</u>	
b. LAB ADDRESS: <u>220 N. Knoxville, Russellville, AR</u>	
c. PARAMETERS PERFORMED: <u>Zn, Cu, Hg, As</u>	
8. BIOMONITORING PROCEDURES ADEQUATE: <u>WET test performed by PACE Analytical</u>	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
a. PROPER ORGANISMS USED:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
b. PROPER DILUTION SERIES FOLLOWED:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
c. PROPER TEST METHODS AND DURATION:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
d. RETESTS AND/OR TRE PERFORMED AS REQUIRED:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE

SECTION G: EFFLUENT/RECEIVING WATERS OBSERVATIONS							
BASED ON VISUAL OBSERVATIONS ONLY						<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE	
DETAILS:							
OUTFALL #:	OIL SHEEN	GREASE	TURBIDITY	VISIBLE FOAM	FLOATING SOLIDS	COLOR	OTHER
001	no	no	slight	not persistent	no	light brown	--
SECTION H: SLUDGE DISPOSAL							
SLUDGE DISPOSAL MEETS PERMIT REQUIREMENTS						<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE	
DETAILS: Facility is producing a Class A Exceptional Quality sludge. They are currently giving it to local farmers.							
1. SLUDGE MANAGEMENT ADEQUATE TO MAINTAIN EFFLUENT QUALITY:						<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE	
2. SLUDGE RECORDS MAINTAINED AS REQUIRED BY 40 CFR 503:						<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE	
3. FOR LAND APPLIED SLUDGE, TYPE OF LAND APPLIED TO: (E.G., FOREST, AGRICULTURAL, PUBLIC CONTACT SITE):							
SECTION I: SAMPLING INSPECTION PROCEDURES							
SAMPLE RESULTS WITHIN PERMIT REQUIREMENTS						<input type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
DETAILS:							
1. SAMPLES OBTAINED THIS INSPECTION:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
2. TYPE OF SAMPLE: <input type="checkbox"/> GRAB:__ <input type="checkbox"/> COMPOSITE:__ METHOD:__ FREQUENCY:							
3. SAMPLES PRESERVED:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
4. FLOW PROPORTIONED SAMPLES OBTAINED:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
5. SAMPLE OBTAINED FROM FACILITY'S SAMPLING DEVICE:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
6. SAMPLE REPRESENTATIVE OF VOLUME AND NATURE OF DISCHARGE:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
7. SAMPLE SPLIT WITH PERMITTEE:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
8. CHAIN-OF-CUSTODY PROCEDURES EMPLOYED:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
9. SAMPLES COLLECTED IN ACCORDANCE WITH PERMIT:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
SECTION J: STORM WATER POLLUTION PREVENTION PLAN							
STORM WATER MANAGEMENT MEETS PERMIT REQUIREMENTS						<input type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
DETAILS:							
1. SWPPP UPDATED AS NEEDED:__ DATE OF LAST UPDATE:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
2. SITE MAP INCLUDING ALL DISCHARGES AND SURFACE WATERS:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
3. POLLUTION PREVENTION TEAM IDENTIFIED:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
4. POLLUTION PREVENTION TEAM PROPERLY TRAINED:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
5. LIST OF POTENTIAL POLLUTANT SOURCES:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
6. LIST OF POTENTIAL SOURCES AND PAST SPILLS AND LEAKS:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
7. ALL NON-STORM WATER DISCHARGES ARE AUTHORIZED:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
8. LIST OF STRUCTURAL BMPS:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
9. LIST OF NON-STRUCTURAL BMPS:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
10. BMPS PROPERLY OPERATED AND MAINTAINED:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
11. INSPECTIONS CONDUCTED AS REQUIRED:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	

FLOW CALCULATION SHEET

Date: **06/08/2017** Time: **9:20**

Head in Inches: Feet: **0.78**

Type & Size of Primary Flow Measurement Device: **5 foot rectangular weir with end contractions**

Name & Model of Secondary Flow Measurement Device: **Eastech Badger**

Date of last Calibration of Secondary Flow Device: **Nov 10, 2016**

Recorded Flow at Date & Time Listed Above: **7.17 MGD** (Facility Flow Meter)

Calculated Flow at Date & Time Listed Above: **7.181 MGD**

(Flow is calculated using flow charts in: ISCO Open Channel Flow Measurement Handbook-5th Edition)

% Error =	Recorded Value	-	Calculated Value	X 100	
	Calculated Value				

% Error =	7.17	-	7.181	X 100	
	7.181				

% Error =	-0.11	X 100	
	7.181		

% Error =	-0.0015	X 100	
-----------	---------	-------	--

% Error =	-0.15	%	
-----------	--------------	---	--

Comments:

DMR Calculation Check

Reporting Period: From 2016 10 01 To 2016 10 31
 Year Month Day Year Month Day

Parameter Checked: CBOD5

	Loading Mass Mo. Avg. - lbs/day	Concentration Monthly Mo. Avg. - mg/l	7-day Avg. - mg/l
Reported Value:	<u>186.3</u>	<u>5.4</u>	<u>7.0</u>
Calculated Value:	<u>184.5</u>	<u>5.4</u>	<u>6.98</u>
Permit Value:	<u>608.8</u>	<u>10.0</u>	<u>15.0</u>

If calculated value does not equal reported value, explain:
Slight difference probably due to rounding error.

Water Division Photographic Evidence Sheet

Location:	Russellville City Corporation		
Photographer:	Amy Beck	Date:	06/08/2017
Witness:	Ches Jackson	Time:	
Description:	West grit remover is not operational.	Photo #:	1



Photographer:	Amy Beck	Date:	06/08/2017
Witness:	Ches Jackson	Time:	1026
Description:	West primary clarifier is not operational.	Photo #:	2



Water Division Photographic Evidence Sheet

Location:	Russellville City Corporation		
Photographer:	Amy Beck	Date:	06/08/2017
Witness:	Ches Jackson	Time:	1129
		Photo #:	3
Description:	Algae on weir plate of secondary Clarifier 3.		



From: [Randy Bradley](#)
To: [Water-Inspection-Report](#)
Cc: [Steve Mallett](#); [Larry Collins](#)
Subject: Permit AR0021768, AFIN 58-00105
Date: Thursday, July 13, 2017 1:22:33 PM
Attachments: [image001.png](#)
[Inspection response to ADEQ 2017.pdf](#)
[2015 Biosolids report to ADEQ.pdf](#)
[2016 Biosolids report to ADEQ.pdf](#)

Attached is the required response to the inspection of City Corporation on June 8 and 9, 2017.

Randy Bradley
Wastewater Operations Manager

City Corporation
Russellville Water & Sewer System
205 West Third Place
PO Box 3186
Russellville, AR 72811
www.citycorporation.com
Phone 479.968.2080 Ext. 224
Main 479.968.2105
Fax 479.968.3265



*Awarded 2016 People's Choice
"Best Drinking Water in North America"*



P. 479-968-2105
F. 479-968-3265

"Award Winning Water"

July 13, 2017

Kerri McCabe
Inspector Supervisor
Water Division/Field Services - Inspection Branch
Arkansas Department of Environmental Quality
5301 Northshore Dr.
North Little Rock, Arkansas 72118

RE: Russellville City Corporation Inspections (Pope Co) NPDES Permit No. AR0021768,
5126-W, AFIN 58-00105

Dear Kerri:

This letter shall serve as City Corporation's written response for the violations noted during the inspection performed by Amy Beck on June 8 and 9, 2017. .

Violations:

1. DMR review shows several exceedances of effluent limits listed in Part 1, section A of the permit. Non-compliance reports have been submitted and no further actions is required at this time.
2. Treatment components are not operating or not properly maintained as required by Part III, Section B.1. of the permit. Specifically, neither the west grit remover nor the west primary clarifier is operational and algae need to be removed from secondary clarifier 3.
3. Two electrical cabinets are not properly maintained as required by Part III, Section B.1. of the permit. Specifically, the Darling, Inc. station's cabinet is rusted and needs to be replaced, and the Lost Corner station's cabinet is rusted and also positioned so stormwater can enter the cabinet. It needs to be raised and replaced.
4. Annual reports have not been submitted for 2015 or 2016 as required by Part II.17 of the permit.
5. The permit Responsible Official has not been updated as required by Part III, 24 of the permit. Please submit a Change of Authorization form to update Official(s).

Response:

1. City Corporation is committed to correcting the issues with permit non-compliance. In 2016, we completed \$18 million+ of improvements at the wastewater plant to address primarily Nitrates, TSS and Total Residual Chlorine as mandated in a 2009 Consent Administrative Order. While these improvements addressed the items noted and perform well to this point, the plant capacity with regards to design flow and loading was not addressed. We are two years into a \$40 million+, 6 year plan to reduce peak flows at the plant, with the expectations that the plant will treat the projected, decreased wet weather flows. What we did not expect nor anticipate was a substantial increase in BOD loading to the plant, which has been documented as slowly and steadily increasing since 2014. We have determined that this increase in BOD loading well above our design loading is very likely the reason we are unable to effectively treat and meet our permit limits on a consistent basis. Understanding that an expansion of our plant and/or construction of site specific pretreatment facilities at our major BOD contributors is likely the solution to this issue, we have entered into a contract with Garver Engineers to evaluate the wastewater treatment plant and develop a computer model of the treatment process to be used as a diagnostic and predictive tool. We have met with our Board of Directors to discuss this item and all have agreed that this is our top priority and projected 2018 bond funds will be re-prioritized as necessary to fund such an expansion. We will keep ADEQ informed of each step along the way to receive necessary approvals and/or permit modifications
2. The West grit removal equipment has failed and due to old age, it is difficult to locate repair parts. City Corporation has in the 2018 capital budget to replace both the East and West grit removal equipment with new equipment. Staff is currently getting quotes for the new equipment and it will be ordered by the end of 2017. The West primary clarifier gear drive failed and a new one had to be ordered. The new unit arrived the week of June 19, 2017 and on June 29, 2017 the West primary was put in service. The algae noted in the secondary clarifiers has been removed and new procedures put in place to ensure the clarifiers are operated correctly.
3. Both cabinets noted in the inspection have been identified as needing replacement by our maintenance staff and are budgeted for repairs/replacement in this year's capital improvements. Repairs/replacement are schedule to be completed by January 2018.
4. Annual biosolids reports have been completed and submitted to ADEQ and copies are attached to this report.
5. The Request for Change of Authorization has been completed and submitted to ADEQ on June 26, 2017.



P. 479-968-2105
F. 479-968-3265

"Award Winning Water"

Should you have any questions or need other info please contact Larry Collins, Chief Operations Officer at 479-968-2080 ext. 222.

Sincerely,

Steve Mallett
Chief Executive Officer

cc: Larry Collins
Randy Bradley
File



P. 479-968-2105
F. 479-968-3265

"Award Winning Water"

July 13, 2017

Arkansas Department of Environmental Quality
Water Division, No-Discharge Section
5301 Northshore Dr.
North Little Rock, Arkansas 72118

RE: Permit No. 5126-W, AFIN 58-00105,

To whom it may concern:

This letter shall serve as City Corporation's Annual Biosolids Report for 2015 as required by permit listed above permit. During this reporting year City Corporation did not land apply any biosolids produced at our facility. City Corporation produced 470.93 dry metric ton of biosolids in 2015, 61.4 MT were disposed in landfill and 409.5 MT remaining were Class A EG. The required soil and waste analyses are enclosed.

Should you have any questions or need other info please contact Larry Collins, Chief Operations Officer at 479-968-2080 ext. 222.

Sincerely,


Steve Mallett
Chief Executive Officer

cc: Larry Collins
Randy Bradley
File

2015 Bio Solids Production

	Lbs (Dry weight)		
Jan	9,959	1st Qtr	Total lbs
Feb	44,869		85,753
Mar	30,925		Total Tons
Apr	115,908	2nd Qtr	42.9
May	134,490		Total M/Ton
Jun	103,313		39.0
Jul	102,446	3rd Qtr	
Aug	113,318		Total lbs
Sep	85,248		353,711
Oct	108,150	4th Qtr	Total Tons
Nov	81,016		176.9
Dec	106,408		Total M/Ton
From 2012			160.8
Total lbs	1,036,050		Total lbs
Total Tons	518.0		301,012
Total M/Ton	470.93		Total Tons
			150.5
			Total M/Ton
			136.8
			Total lbs
			295,574
			Total Tons
			147.8
			Total M/Ton
			134.4

67.5 ton (61.4MT) went to landfill
 450.5 Ton (409.5 MT) class A

Dates bio-solids applied to:

Site 1 (City Corporation)	Total amount applied: Total acres = 47.4 Total tons/acres Total M/Ton/acre
Site 2 (Baker land)	Total amount applied: 0 lbs Total acres = 56.7 total ton/acres total M/Ton/Acre

Received
4/9/15/17

April 2, 2015
Control No. 188888
Page 3 of 5

City Corporation
Post Office Box 3186
Russellville, AR 72811-3186

ANALYTICAL RESULTS

AIC No. 188888-1

Sample Identification: L246-049555 0315152 Field # ¹/₂ 24-Mar-2015 1345

Analyte	Result	RL	Units	Qualifier
Electrical Conductivity Mod. EPA 9050A Prep: 31-Mar-2015 0930 by 93	82	2	umho/cm	
	Analyzed: 31-Mar-2015 1500 by 93		Batch: W51406	
Cation-Exchange Capacity Mod. EPA 9080	8.3	0.2	meq/100g	
	Analyzed: 01-Apr-2015 0857 by 308		Batch: W51416	
Total Solids SM 2540 G 1997 Prep: 27-Mar-2015 1444 by 271	68	0.01	wt %	
	Analyzed: 30-Mar-2015 1041 by 271		Batch: W51378	
Calcium EPA 3051A, 6010C Prep: 30-Mar-2015 1030 by 315	9400	10	mg/Kg	
	Analyzed: 02-Apr-2015 1149 by 302		Batch: S38584	
Magnesium EPA 3051A, 6010C Prep: 30-Mar-2015 1030 by 315	1800	3	mg/Kg	
	Analyzed: 02-Apr-2015 1149 by 302		Batch: S38584	
Phosphorus EPA 3051A, 6010C Prep: 30-Mar-2015 1030 by 315	8700	10	mg/Kg	
	Analyzed: 02-Apr-2015 1149 by 302		Batch: S38584	
Potassium EPA 3051A, 6010C Prep: 30-Mar-2015 1030 by 315	550	100	mg/Kg	
	Analyzed: 02-Apr-2015 1149 by 302		Batch: S38584	
Sodium EPA 3051A, 6010C Prep: 30-Mar-2015 1030 by 315	130	100	mg/Kg	
	Analyzed: 02-Apr-2015 1149 by 302		Batch: S38584	
Sodium Absorption Ratio EPA 3051A, 6010C	0.32			
	Analyzed: 30-Mar-2015 1030 by 302		Batch: S38584	
Nitrate as N EPA 9056A Prep: 26-Mar-2015 1647 by 07	9.1	0.8	mg/Kg	
	Analyzed: 26-Mar-2015 1850 by 07		Batch: C17566	

Cooperative Extension Service
Soil Testing And Research Laboratory
Marianna, AR 72360
<http://soiltest.uaex.edu>

The University of Arkansas is an equal opportunity/affirmative action institution.

RANDY BRADLEY/CITY CORP 404 JIMMY LILE RD RUSSELLVILLE	Client ID: 4799685797 AR 72801
Date Processed: Field ID: Acres: Lime Applied in the last 4 years: Leveled in past 4 years: Irrigation:	4/10/2015 1 43 Yes No Unknown
County: Lab Number: Sample Number:	Pope 54849 3461182

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	751	1502	Above Optimum
K	82	164	Low
Ca	1882	3764	--
Mg	163	326	--
SO4-S	60	120	--
Zn	76.3	152.6	--
Fe	272	544	--
Mn	100	200	--
Cu	18	36	--
B	0.4	0.8	--
NO3-N			--

2. Soil Properties

Property	Value	Units		
Soil pH (1:2 soil-water)	5.4	--		
Soil EC (1:2 soil-water)		umhos/cm		
Soil Estimated CEC	17.07	cmolc/kg		
Organic Matter (Loss on Ignition)		%		
Estimated Soil Texture	Silty Clay Loam - Clay Loam			
Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
64.85	55.13	7.96	1.23	0.53

3. Recommendations

(Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Crop	N	P2O5	K2O	SO4-S	Zn	B	Lime
Last Crop	Pasture (212)						
	----- lb/acre -----						
Crop 1	60	0	100	0	0	0	6000
Crop 2							
Crop 3							

4. Crop 1 Notes:

To favor cool-season grasses, apply N in late winter. To favor warm-season grasses, do not apply N until May 1. For higher production, topdress 50 lb N/Acre after every 4-6 weeks of grazing or as needed.

5. Crop 2 Notes:

6. Crop 3 Notes:



Environmental Enterprise Group, Inc.

received 4/13/15

220 North Knoxville Russellville, Arkansas 72801
Phone (479) 968-6767 Fax (479) 968-1956
www.eegonline.com

1st Qtr
Bio Solids

April 6, 2015
Control No. 188958R
Page 3 of 8

City Corporation
Post Office Box 3186
Russellville, AR 72811-3186

ANALYTICAL RESULTS

AIC No. 188958-1

Sample Identification: L246-049564 0315167 PCW Bio-Solids 25-Mar-2015 1400

Analyte	Result	RL	Units	Qualifier
Total Solids SM 2540 G 1997	14	0.01	wt %	
Prep: 02-Apr-2015 1535 by 271	Analyzed: 03-Apr-2015 1658 by 271		Batch: W51439	
Volatile Solids SM 2540 G 1997	76	0.01	wt %	
Prep: 02-Apr-2015 1658 by 271	Analyzed: 03-Apr-2015 1658 by 271		Batch: W51439	
Ammonia as N SM 4500-NH3 B,G 1997	3100	400	mg/Kg	
Prep: 30-Mar-2015 1520 by 93	Analyzed: 31-Mar-2015 2002 by 93		Batch: W51393	
Total Kjeldahl Nitrogen SM 4500-Norg D 1997	58000	20000	mg/Kg	
Prep: 30-Mar-2015 1649 by 308	Analyzed: 01-Apr-2015 1219 by 308		Batch: W51397	
Arsenic EPA 3051A, 6010C	5.9	5	mg/Kg	
Prep: 30-Mar-2015 1031 by 315	Analyzed: 02-Apr-2015 1209 by 302		Batch: S38584	
Cadmium EPA 3051A, 6010C	1.3	0.4	mg/Kg	
Prep: 30-Mar-2015 1031 by 315	Analyzed: 02-Apr-2015 1209 by 302		Batch: S38584	
Calcium EPA 3051A, 6010C	7600	10	mg/Kg	
Prep: 30-Mar-2015 1031 by 315	Analyzed: 02-Apr-2015 1209 by 302		Batch: S38584	
Copper EPA 3051A, 6010C	250	0.6	mg/Kg	
Prep: 30-Mar-2015 1031 by 315	Analyzed: 02-Apr-2015 1209 by 302		Batch: S38584	
Lead EPA 3051A, 6010C	52	4	mg/Kg	
Prep: 30-Mar-2015 1031 by 315	Analyzed: 02-Apr-2015 1209 by 302		Batch: S38584	
Magnesium EPA 3051A, 6010C	3000	3	mg/Kg	
Prep: 30-Mar-2015 1031 by 315	Analyzed: 02-Apr-2015 1209 by 302		Batch: S38584	
Molybdenum EPA 3051A, 6010C	12	0.8	mg/Kg	
Prep: 30-Mar-2015 1031 by 315	Analyzed: 02-Apr-2015 1209 by 302		Batch: S38584	
Nickel EPA 3051A, 6010C	35	1	mg/Kg	
Prep: 30-Mar-2015 1031 by 315	Analyzed: 02-Apr-2015 1209 by 302		Batch: S38584	
Phosphorus EPA 3051A, 6010C	23000	100	mg/Kg	
Prep: 30-Mar-2015 1031 by 315	Analyzed: 02-Apr-2015 1202 by 302		Batch: S38584	
Potassium EPA 3051A, 6010C	4700	100	mg/Kg	
Prep: 30-Mar-2015 1031 by 315	Analyzed: 02-Apr-2015 1209 by 302		Batch: S38584	
Selenium EPA 3051A, 6010C	< 7	7	mg/Kg	
Prep: 30-Mar-2015 1031 by 315	Analyzed: 02-Apr-2015 1209 by 302		Batch: S38584	
Sodium EPA 3051A, 6010C	910	100	mg/Kg	
Prep: 30-Mar-2015 1031 by 315	Analyzed: 02-Apr-2015 1209 by 302		Batch: S38584	
Sodium Absorption Ratio EPA 3051A, 6010C	2.2			
Prep: 30-Mar-2015 1031 by 315	Analyzed: 02-Apr-2015 1209 by 302		Batch: S38584	
Zinc EPA 3051A, 6010C	900	0.2	mg/Kg	
Prep: 30-Mar-2015 1031 by 315	Analyzed: 02-Apr-2015 1209 by 302		Batch: S38584	

analytical services provided by:





**E n v i r o n m e n t a l
E n t e r p r i s e G r o u p , I n c .**

220 North Knoxville Russellville, Arkansas 72801
Phone (479) 968-6767 Fax (479) 968-1956
www.eegonline.com

April 6, 2015
Control No. 188958R
Page 4 of 8

City Corporation
Post Office Box 3186
Russellville, AR 72811-3186

ANALYTICAL RESULTS

AIC No. 188958-1 (Continued)

Sample Identification: L246-049564 0315167 PCW Bio-Solids 25-Mar-2015 1400

Analyte	Result	RL	Units	Qualifier
Mercury EPA 7471B Prep: 31-Mar-2015 1202 by 313	0.92 Analyzed: 31-Mar-2015 1409 by 302	0.1	mg/Kg Batch: S38601	
Nitrate as N EPA 9056A Prep: 27-Mar-2015 1643 by 07	< 4 Analyzed: 27-Mar-2015 2215 by 07	4	mg/Kg Batch: C17570	H
Nitrite as N EPA 9056A Prep: 27-Mar-2015 1643 by 07	< 4 Analyzed: 27-Mar-2015 2215 by 07	4	mg/Kg Batch: C17570	H
Polychlorinated Biphenyls (PCBs) By EPA 3550C, 8082A				
PCB 1016 EPA 3550C, 8082A Prep: 31-Mar-2015 1618 by 285	< 0.095 Analyzed: 02-Apr-2015 1110 by 306	0.095	mg/Kg Batch: G10072	
PCB 1221 EPA 3550C, 8082A Prep: 31-Mar-2015 1618 by 285	< 0.095 Analyzed: 02-Apr-2015 1110 by 306	0.095	mg/Kg Batch: G10072	
PCB 1232 EPA 3550C, 8082A Prep: 31-Mar-2015 1618 by 285	< 0.095 Analyzed: 02-Apr-2015 1110 by 306	0.095	mg/Kg Batch: G10072	
PCB 1242 EPA 3550C, 8082A Prep: 31-Mar-2015 1618 by 285	< 0.095 Analyzed: 02-Apr-2015 1110 by 306	0.095	mg/Kg Batch: G10072	
PCB 1248 EPA 3550C, 8082A Prep: 31-Mar-2015 1618 by 285	< 0.095 Analyzed: 02-Apr-2015 1110 by 306	0.095	mg/Kg Batch: G10072	
PCB 1254 EPA 3550C, 8082A Prep: 31-Mar-2015 1618 by 285	< 0.095 Analyzed: 02-Apr-2015 1110 by 306	0.095	mg/Kg Batch: G10072	
PCB 1260 EPA 3550C, 8082A Prep: 31-Mar-2015 1618 by 285	< 0.095 Analyzed: 02-Apr-2015 1110 by 306	0.095	mg/Kg Batch: G10072	
Surrogate: Decachlorobiphenyl (32.6-141%) EPA 3550C, 8082A Prep: 31-Mar-2015 1618 by 285	82.0 Analyzed: 02-Apr-2015 1110 by 306		% Batch: G10072	

analytical services provided by:



City Corporation Pretreatment Program

Record of pH

pH Method: SM 18th 4500-H + B Electronic Method

Facility Name: Bio-solids First Quarter

Date / Time Sample Collected: 3/25/15 @ 8-1400 Collected by: CJ

Date / Time Sample Analyzed: 3/25/15 @ 1410 Analyzed by: CJ

pH value sample: 7.05

Temp: 21.7C

pH value duplicate: —

Abs. Diff. (sample duplicate): —

pH meter # H-160

pH meters used are calibrated each morning - record of calibration on file in the PCW lab.



P. 479-968-2105
F. 479-968-3265

"Award Winning Water"

July 13, 2017

Arkansas Department of Environmental Quality
Water Division, No-Discharge Section
5301 Northshore Dr.
North Little Rock, Arkansas 72118

RE: Permit No. 5126-W, AFIN 58-00105,

To whom it may concern:

This letter shall serve as City Corporation's Annual Biosolids Report for 2016 as required by permit listed above permit. During this reporting year City Corporation did not land apply any biosolids produced at our facility. City Corporation produced 848.61 dry metric ton of biosolids in 2016, all of which were Class A EG. The required soil and waste analyses are enclosed.

Should you have any questions or need other info please contact Larry Collins, Chief Operations Officer at 479-968-2080 ext. 222.

Sincerely,

Steve Mallett
Chief Executive Officer

cc: Larry Collins
Randy Bradley
File

2016 Bio Solids Production

	Lbs (Dry weight)			
Jan	108,454	1st Qtr	Total lbs	504,173
Feb	155,051		Total Tons	252.1
Mar	240,668		Total M/Ton	229.2
Apr	187,719	2nd Qtr		
May	256,855		Total lbs	590,401
Jun	145,827		Total Tons	295.2
Jul	129,540	3rd Qtr	Total M/Ton	268.4
Aug	112,631			
Sep	136,089		Total lbs	378,260
Oct	169,656	4th Qtr	Total Tons	189.1
Nov	178,269		Total M/Ton	171.9
Dec	46,191			
			Total lbs	394,116
Total lbs	1,866,950		Total Tons	197.1
Total Tons	933.5		Total M/Ton	179.1
Total M/Ton	848.61			

Dates bio-solids applied to:

Site 1 (City Corporation)

Total amount applied:
 Total acres = 47.4
 Total tons/acres
 Total M/Ton/acre

Site 2 (Baker land)

Total amount applied: 0 lbs
 Total acres = 56.7
 total ton/acres
 total M/Ton/Acre

received
6/6/16

June 1, 2016
Control No. 202242
Page 3 of 6

City Corporation
Post Office Box 3186
Russellville, AR 72811-3186

ANALYTICAL RESULTS

AIC No. 202242-1

Sample Identification: L246-051144 0516132 Field #2 13-May-2016 1303

Analyte	Result	RL	Units	Qualifier
Electrical Conductivity (1:1 ratio) Mod. EPA 9050A	280	3	umho/cm	
Prep: 19-May-2016 1356 by 308	Analyzed: 19-May-2016 1515 by 308		Batch: W55982	
Cation-Exchange Capacity Mod. EPA 9080	42	0.2	meq/100g	
	Analyzed: 19-May-2016 0756 by 308		Batch: W55971	
Total Solids SM 2540 G 1997	68	0.01	wt %	
Prep: 18-May-2016 1343 by 100	Analyzed: 19-May-2016 1032 by 100		Batch: W55961	
Arsenic EPA 3051A, 6010C	5.1	5	mg/Kg	
Prep: 19-May-2016 0923 by 313	Analyzed: 20-May-2016 1159 by 317		Batch: S41159	
Calcium EPA 3051A, 6010C	8500	10	mg/Kg	
Prep: 19-May-2016 0923 by 313	Analyzed: 20-May-2016 1159 by 317		Batch: S41159	
Copper EPA 3051A, 6010C	130	0.6	mg/Kg	
Prep: 19-May-2016 0923 by 313	Analyzed: 20-May-2016 1159 by 317		Batch: S41159	
Lead EPA 3051A, 6010C	39	4	mg/Kg	
Prep: 19-May-2016 0923 by 313	Analyzed: 20-May-2016 1159 by 317		Batch: S41159	
Magnesium EPA 3051A, 6010C	2500	3	mg/Kg	
Prep: 19-May-2016 0923 by 313	Analyzed: 20-May-2016 1159 by 317		Batch: S41159	
Molybdenum EPA 3051A, 6010C	6.7	0.8	mg/Kg	
Prep: 19-May-2016 0923 by 313	Analyzed: 20-May-2016 1159 by 317		Batch: S41159	
Nickel EPA 3051A, 6010C	20	1	mg/Kg	
Prep: 19-May-2016 0923 by 313	Analyzed: 20-May-2016 1159 by 317		Batch: S41159	
Phosphorus EPA 3051A, 6010C	6400	10	mg/Kg	
Prep: 19-May-2016 0923 by 313	Analyzed: 20-May-2016 1159 by 317		Batch: S41159	
Potassium EPA 3051A, 6010C	910	100	mg/Kg	
Prep: 19-May-2016 0923 by 313	Analyzed: 20-May-2016 1159 by 317		Batch: S41159	
Selenium EPA 3051A, 6010C	< 7	7	mg/Kg	
Prep: 19-May-2016 0923 by 313	Analyzed: 20-May-2016 1159 by 317		Batch: S41159	
Sodium EPA 3051A, 6010C	110	100	mg/Kg	
Prep: 19-May-2016 0923 by 313	Analyzed: 20-May-2016 1159 by 317		Batch: S41159	
Sodium Absorption Ratio EPA 3051A, 6010C	0.27			
	Analyzed: 19-May-2016 0924 by 317		Batch: S41159	
Zinc EPA 3051A, 6010C	220	0.2	mg/Kg	
Prep: 19-May-2016 0923 by 313	Analyzed: 20-May-2016 1159 by 317		Batch: S41159	
Mercury EPA 7471B	1.4	0.1	mg/Kg	
Prep: 20-May-2016 1044 by 313	Analyzed: 27-May-2016 1702 by 313		Batch: S41167	
Nitrate as N EPA 9056A	9.2	0.8	mg/Kg	H
Prep: 17-May-2016 1517 by 07	Analyzed: 17-May-2016 1755 by 07		Batch: C18833	

Cooperative Extension Service
 Soil Testing And Research Laboratory
 Marianna, AR 72360
<http://soiltest.uark.edu>

The University of Arkansas is an equal opportunity/affirmative action institution.

RANDY BRADLEY CITY CORPS	Client ID: 4799685747
404 JIMMY LILE RD	
RUSSELLVILLE	AR 72801
Date Processed:	5/24/2016
Field ID:	NA
Acres:	10
Lime Applied in the last 4 years:	Yes
Leveled in past 4 years:	No
Irrigation:	Unknown
County:	Pope
Lab Number:	70110
Sample Number:	3464119

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	723	1446	Above Optimum
K	85	170	Low
Ca	3935	7870	--
Mg	196	392	--
SO4-S	63	126	--
Zn	89.3	178.6	--
Fe	245	490	--
Mn	67	134	--
Cu	25.4	50.8	--
B	1.1	2.2	--
NO3-N			--

2. Soil Properties

Property	Value	Units		
Soil pH (1:2 soil-water)	5.9	--		
Soil EC (1:2 soil-water)		umhos/cm		
Soil Estimated CEC	25.60	cmolc/kg		
Organic Matter (Loss on Ignition)		%		
Estimated Soil Texture	Clay			
Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
84.38	76.84	6.38	0.85	0.31

3. Recommendations (Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Crop		N	P2O5	K2O	SO4-S	Zn	B	Lime
Last Crop	Hay (142)	----- lb/acre -----						
Crop 1	Mixed Cool and Warm Season Grasses 2 ton (142)	80	0	150	0	0	0	0
Crop 2								
Crop 3								

4. Crop 1 Notes:

To favor cool-season grasses, apply fertilizer in late winter. To favor warm-season grasses, do not apply N until May 1.

5. Crop 2 Notes:

6. Crop 3 Notes:



Environmental
Enterprise Group, Inc.

220 North Knoxville Russellville, Arkansas 72801
Phone (479) 968-6767 Fax (479) 968-1956
www.eegonline.com

200 of 2016
Bio Solids

received
Monday 5-2-16
CYP

April 25, 2016
Control No. 201292
Page 3 of 10

City Corporation
Post Office Box 3186
Russellville, AR 72811-3186

ANALYTICAL RESULTS

AIC No. 201292-1

Sample Identification: L246-051020 0416111 PCW Bio-Solids 13-Apr-2016 1345

Analyte	Result	RL	Units	Qualifier
TCLP: Solids EPA 1311	100 Analyzed: 18-Apr-2016 1559 by 100	0.5	% Batch: S40995	
TCLP: Arsenic EPA 3010A, 6010C Prep: 20-Apr-2016 1002 by 317	< 0.3 Analyzed: 20-Apr-2016 1342 by 317	0.3	mg/l Batch: S41004	D Dil: 5
TCLP: Barium EPA 3010A, 6010C Prep: 20-Apr-2016 1002 by 317	0.35 Analyzed: 20-Apr-2016 1342 by 317	0.01	mg/l Batch: S41004	D Dil: 5
TCLP: Cadmium EPA 3010A, 6010C Prep: 20-Apr-2016 1002 by 317	0.022 Analyzed: 20-Apr-2016 1342 by 317	0.02	mg/l Batch: S41004	D Dil: 5
TCLP: Chromium EPA 3010A, 6010C Prep: 20-Apr-2016 1002 by 317	0.045 Analyzed: 20-Apr-2016 1342 by 317	0.04	mg/l Batch: S41004	D Dil: 5
TCLP: Lead EPA 3010A, 6010C Prep: 20-Apr-2016 1002 by 317	< 0.2 Analyzed: 20-Apr-2016 1342 by 317	0.2	mg/l Batch: S41004	D Dil: 5
TCLP: Selenium EPA 3010A, 6010C Prep: 20-Apr-2016 1002 by 317	< 0.4 Analyzed: 20-Apr-2016 1342 by 317	0.4	mg/l Batch: S41004	D Dil: 5
TCLP: Silver EPA 3010A, 6010C Prep: 20-Apr-2016 1002 by 317	< 0.04 Analyzed: 20-Apr-2016 1342 by 317	0.04	mg/l Batch: S41004	D Dil: 5
TCLP: Mercury EPA 7470A Prep: 20-Apr-2016 0807 by 313	< 0.008 Analyzed: 21-Apr-2016 1121 by 313	0.008	mg/l Batch: S41002	D Dil: 40
Total Solids SM 2540 G 1997 Prep: 18-Apr-2016 1041 by 100	28 Analyzed: 19-Apr-2016 0921 by 100	0.01	wt % Batch: W55621	
Volatile Solids SM 2540 G 1997 Prep: 18-Apr-2016 1041 by 100	22 Analyzed: 19-Apr-2016 0921 by 100	0.01	wt % Batch: W55621	
Ammonia as N SM 4500-NH3 B,G 1997 Prep: 18-Apr-2016 0953 by 319	1600 Analyzed: 18-Apr-2016 1320 by 319	200	mg/Kg Batch: W55619	
Total Kjeldahl Nitrogen SM 4500-Norg D 1997 Prep: 15-Apr-2016 1324 by 319	23000 Analyzed: 18-Apr-2016 1526 by 319	2000	mg/Kg Batch: W55609	
Arsenic EPA 3051A, 6010C Prep: 21-Apr-2016 1419 by 313	< 5 Analyzed: 21-Apr-2016 1743 by 317	5	mg/Kg Batch: S41013	
Cadmium EPA 3051A, 6010C Prep: 21-Apr-2016 1419 by 313	< 0.4 Analyzed: 21-Apr-2016 1743 by 317	0.4	mg/Kg Batch: S41013	
Calcium EPA 3051A, 6010C Prep: 21-Apr-2016 1419 by 313	270000 Analyzed: 22-Apr-2016 1132 by 317	1000	mg/Kg Batch: S41013	
Copper EPA 3051A, 6010C Prep: 21-Apr-2016 1419 by 313	71 Analyzed: 21-Apr-2016 1743 by 317	0.6	mg/Kg Batch: S41013	
Lead EPA 3051A, 6010C Prep: 21-Apr-2016 1419 by 313	4.6 Analyzed: 21-Apr-2016 1743 by 317	4	mg/Kg Batch: S41013	

analytical services provided by:



April 25, 2016
Control No. 201292
Page 4 of 10

City Corporation
Post Office Box 3186
Russellville, AR 72811-3186

ANALYTICAL RESULTS

AIC No. 201292-1 (Continued)

Sample Identification: L246-051020 0416111 PCW Bio-Solids 13-Apr-2016 1345

Analyte	Result	RL	Units	Qualifier
Magnesium EPA 3051A, 6010C	3500	3	mg/Kg	
Prep: 21-Apr-2016 1419 by 313	Analyzed: 21-Apr-2016 1743 by 317		Batch: S41013	
Molybdenum EPA 3051A, 6010C	3.7	0.8	mg/Kg	
Prep: 21-Apr-2016 1419 by 313	Analyzed: 21-Apr-2016 1743 by 317		Batch: S41013	
Nickel EPA 3051A, 6010C	9.4	1	mg/Kg	
Prep: 21-Apr-2016 1419 by 313	Analyzed: 21-Apr-2016 1743 by 317		Batch: S41013	
Phosphorus EPA 3051A, 6010C	7300	10	mg/Kg	
Prep: 21-Apr-2016 1419 by 313	Analyzed: 21-Apr-2016 1743 by 317		Batch: S41013	
Potassium EPA 3051A, 6010C	1700	100	mg/Kg	
Prep: 21-Apr-2016 1419 by 313	Analyzed: 21-Apr-2016 1743 by 317		Batch: S41013	
Selenium EPA 3051A, 6010C	< 7	7	mg/Kg	
Prep: 21-Apr-2016 1419 by 313	Analyzed: 21-Apr-2016 1743 by 317		Batch: S41013	
Sodium EPA 3051A, 6010C	340	100	mg/Kg	
Prep: 21-Apr-2016 1419 by 313	Analyzed: 21-Apr-2016 1743 by 317		Batch: S41013	
Sodium Absorption Ratio EPA 3051A, 6010C	0.18			
	Analyzed: 21-Apr-2016 1419 by 317		Batch: S41013	
Zinc EPA 3051A, 6010C	160	0.2	mg/Kg	
Prep: 21-Apr-2016 1419 by 313	Analyzed: 21-Apr-2016 1743 by 317		Batch: S41013	
Mercury EPA 7471B	0.50	0.1	mg/Kg	
Prep: 18-Apr-2016 1408 by 313	Analyzed: 19-Apr-2016 1248 by 313		Batch: S40994	
Density at 23 deg.C ASTM D854-83	4.03	0		
	Analyzed: 18-Apr-2016 1207 by 93		Batch: C18737	
Nitrate as N EPA 9056A	31	2	mg/Kg	
Prep: 15-Apr-2016 1325 by 07	Analyzed: 16-Apr-2016 0256 by 07		Batch: C18732	
Nitrite as N EPA 9056A	3.6	2	mg/Kg	
Prep: 15-Apr-2016 1325 by 07	Analyzed: 16-Apr-2016 0256 by 07		Batch: C18732	
Polychlorinated Biphenyls (PCBs) By EPA 3550C, 8082A				
PCB 1016 EPA 3550C, 8082A	< 0.047	0.047	mg/Kg	
Prep: 20-Apr-2016 1601 by 306	Analyzed: 22-Apr-2016 1824 by 306		Batch: G10476	
PCB 1221 EPA 3550C, 8082A	< 0.047	0.047	mg/Kg	
Prep: 20-Apr-2016 1601 by 306	Analyzed: 22-Apr-2016 1824 by 306		Batch: G10476	
PCB 1232 EPA 3550C, 8082A	< 0.047	0.047	mg/Kg	
Prep: 20-Apr-2016 1601 by 306	Analyzed: 22-Apr-2016 1824 by 306		Batch: G10476	
PCB 1242 EPA 3550C, 8082A	< 0.047	0.047	mg/Kg	
Prep: 20-Apr-2016 1601 by 306	Analyzed: 22-Apr-2016 1824 by 306		Batch: G10476	
PCB 1248 EPA 3550C, 8082A	< 0.047	0.047	mg/Kg	
Prep: 20-Apr-2016 1601 by 306	Analyzed: 22-Apr-2016 1824 by 306		Batch: G10476	



**E n v i r o n m e n t a l
E n t e r p r i s e G r o u p , I n c .**

220 North Knoxville Russellville, Arkansas 72801
Phone (479) 968-6767 Fax (479) 968-1956
www.eegonline.com

April 25, 2016
Control No. 201292
Page 5 of 10

City Corporation
Post Office Box 3186
Russellville, AR 72811-3186

ANALYTICAL RESULTS

AIC No. 201292-1 (Continued)

Sample Identification: L246-051020 0416111 PCW Bio-Solids 13-Apr-2016 1345

<u>Analyte</u>	<u>Result</u>	<u>RL</u>	<u>Units</u>	<u>Qualifier</u>
Polychlorinated Biphenyls (PCBs) By EPA 3550C, 8082A (Continued)				
PCB 1254	< 0.047	0.047	mg/Kg	
EPA 3550C, 8082A	Prep: 20-Apr-2016 1601 by 306	Analyzed: 22-Apr-2016 1824 by 306	Batch: G10476	
PCB 1260	< 0.047	0.047	mg/Kg	
EPA 3550C, 8082A	Prep: 20-Apr-2016 1601 by 306	Analyzed: 22-Apr-2016 1824 by 306	Batch: G10476	
Surrogate: Decachlorobiphenyl (50.3-164%)	87.2		%	
EPA 3550C, 8082A	Prep: 20-Apr-2016 1601 by 306	Analyzed: 22-Apr-2016 1824 by 306	Batch: G10476	

analytical services provided by:



City Corporation Pretreatment Program

Record of pH

pH Method: SM 18th 4500-H + B Electronic Method

Facility Name: Second Quarter Sludge

Date / Time Sample Collected: 4/13/16 @ 1345 Collected by: AJ

Date / Time Sample Analyzed: 4/13/16 @ 1350 Analyzed by: TS

pH value sample: 12.02

Temp: 34.1

pH value duplicate: 12.00

Abs. Diff. (sample duplicate): 0.02

pH meter # H-160

pH meters used are calibrated each morning - record of calibration on file in the PCW lab.



A R K A N S A S
Department of Environmental Quality

July 25, 2017

Steve Mallett, Chief Executive Officer
City Corporation
P.O. Box 3186
Russellville, AR 72811

RE: Russellville City Corporation - Response to Inspections (Pope Co)
AFIN: 58-00105 **Permit No.: AR0021768**
AR0021768C3
5126-W

Dear Mr. Mallett:

I have reviewed the response pertaining to my June 8 and 9, 2017 inspections of the City Corp's wastewater permits. The information provided sufficiently addresses the violations referenced in my inspection reports. At this time, the Department has no further comment concerning these particular inspections. Acceptance of this response by the Department does not preclude any future enforcement action deemed necessary at this site or any other site.

If we need further information concerning this matter, we will contact you. Thank you for your attention to this matter. Should you have any questions, feel free to contact me at (479) 968-7339 ext. 15 or you may e-mail me at beck@adeq.state.ar.us.

Sincerely,

Amy Beck
District 5 Field Inspector
Office of Water Quality