



August 28, 2023

Stephanie Orman, Mayor City of Bentonville 1000 SW 14th St Bentonville, AR 72712 Sent via email to: <u>sorman@bentonvillear.com</u>

# RE: City of Bentonville Inspection (Benton Co) AFIN: 04-00154 NPDES Permit No.: ARR0022403

Dear Honorable Mayor Orman:

On June 13, 2023, I performed a Compliance Evaluation 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 inspection report for any comments.

If I can be of any assistance, please contact me at <u>william.cody@adeq.state.ar.us</u> or (501) 944-2569.

Sincerely,

Will Cedy

William Cody Inspector, Office of Water Quality 5301 Northshore Drive, North Little Rock, AR, 72118

Cc: <u>chrise@bentonvillear.com</u>; <u>tmcgee@bentonvillear.com</u>; <u>cearl@bentonvillear.com</u>;

( state	ENVIRONMENTAL	OFFICE OF WATER QUALITY INSPECTION REPORT								
() ( ) ( )		AFIN: 04-00154 PERMIT #: ARR002			22403		DATE: 6/13/2023			
07	AND ENVIRON	COUNTY: 04 Bento			n P		#: <b>126310</b>		MEDIA: WN	
		GF	PS LAT: 36.390939 LONG: -94.203999 LOCATION: Entrance					e		
FACILITY INFORMATION					IN	SPEC	TION INFO	RMATIO	N	
	y of Bentonville	FACILITY TYPE: <b>1 - Municipal</b>								
LOCATION: <b>1901 NE A St.</b> CITY:					FACILITY EVALUATION RATING		Co	CTION TYPE: mpliance	Evaluation	
Bentonville					DATE(s):     ENTRY TIME:     EXIT TIME:     PERMIT EFFECTIVE DATE:       6/13/2023     09:11     11:11     2/1/2021					
RESPONSIBLE OFFICIAL									<b>JZ</b> KPIRATION DATE:	
NAME: / TITLE Stephanie Orman / Mayor								1/31/2026		
COMP	PANY:				FAYETTEVILLE SHALE RELATED: N					
	y of Bentonville				FAYETTEVILLE SHALE VIOLATIONS: N					
	00 SW 14 <sup>th</sup> St				INSPECTION PARTICIPANTS					
	STATE, ZIP:			ĺ	NAME/TITLE/PHONE/FAX/EMAIL/ETC.: Chris Earl, Manager					
	ntonville AR 72712				Matt Webster, Assistant Manager					
	9-271-3160 /				Kerri McCabe, Area I Inspector Supervisor					
EMAI					William Cody, Area I Inspector					
	rman@bentonvillear.com INTACTED DURING INSPECTION:	No			-					
			AREA E		LUATIONS sfactory, N=Not Applicable/	Evolution	d)			
S	PERMIT	S	FLOW MEAS			S	STORMV	/ATER		
S	RECORDS/REPORTS	Ν	LABORATOF	۲Y		S	FACILITY	SITE RE	VIEW	
S	<b>OPERATION &amp; MAINTENANCE</b>	S			CEIVING WATER	Ν	-		IG PROGRAM	
S	SAMPLING	S	SLUDGE HA	ND	LING/DISPOSAL	Ν	PRETRE	ATMENT		
**	OTHER:									
			SIIMMAD		F FINDINGS					
			JOWIWAR	10						

No violations were noted during the inspection.

#### GENERAL COMMENTS

On June 13, 2023, Inspector Supervisor Kerri McCabe and I conducted an inspection at the City of Bentonville Water Resource and Recovery Facility. The inspection consisted of a site evaluation, and records were reviewed after the inspection. Mr. Chris Earl, Manager, and Mr. Matt Webster, Assistant Manager, accompanied us during the inspection.

## **Records Review:**

I provided Mr. Earl the DEQ Laboratory Records Request sheet during the inspection. I then requested records for February and November of 2022 to review and conduct a DMR consistency check. No items were noted during the DMR consistency check.

## Site Evaluation:

The facility is in good condition overall and no items were noted. The treatment facility has three lines into the plant: two are force main lines; one is a gravity line. An automatic bar screen is properly functioning and a manual bar screen is available if needed. A new grit classifier has been installed this year. The grit chamber has new components as of 2021, and the solids from the chamber are routed back to the classifier.

The facility's wastewater treatment process involves four fermentation cells where the wastewater flows through each cell by means of a gate. The wastewater then proceeds to the first oxidation ditch where rollers are used to provide oxygen and promote mixing. The wastewater then proceeds to the second oxidation ditch for further processing. Wastewater is then routed to a splitter box, which routes the water through four anoxic cells. Once the wastewater has been processed in the anoxic cells, it is re-routed to the second oxidation ditch for "polishing" or to be processed a second time. Mr. Earl mentioned that they hope to change from the rollers in the oxidation ditches to another method of supplying oxygen by this time next year. There are D.O. and phosphorus meters at each end of both oxidation ditches, which are checked every four hours. Mr. Earl explained they try to achieve a more anaerobic condition in Oxidation Ditch #2 before the wastewater goes to the anoxic cells, while Oxidation Ditch #1 is maintained for aerobic conditions and a slightly higher D.O. level.

Wastewater from Oxidation Ditch #2 proceeds to a splitter box by means of a weir, which distributes the water to two clarifiers. The concrete in the clarifiers have been coated and new components were installed in 2019. The second clarifier's floor is uneven, and Mr. Earl stated they are planning to have a third clarifier built and in operation in the future. Mr. Earl also mentioned they will be changing to DAS once approved.

Wastewater then proceeds to UV disinfection where there are 96 bulbs. Each bulb is checked every two weeks, and Mr. Earl mentioned they would like to implement a more robust UV system and essentially double the amount of bulbs that they currently use. Post-aeration and UV disinfection occurs under metal coverings. The effluent flow is measured by means of an 18" Parshall Flume with an ISCO 3010 Ultrasonic Flow Transmitter as the secondary measurement device. The effluent is discharged over a weir into Town Branch Creek. The effluent is clear.

The facility has five aerated digesters that receive the WAS from the thickeners. A Volute Dewatering Press is used for solids and it was installed in January 2019. Solids are hauled off via 18-wheeler trailers. Old sludge drying beds are now used as solids storage.

Will Cert	
INSPECTOR'S SIGNATURE: William Cody	DATE: 7/10/2023
Kerri MS Cale	
SUPERVISOR'S SIGNATURE:Kerri McCabe	DATE: 8/17/2023

Inspection Report: City of Bentonville, AFIN: 04-00154, Permit #: ARR0022403

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

SECTION D: SAMPLING	
PERMITTEE SAMPLING MEETS PERMIT REQUIREMENTS	⊠S ⊡M ⊡U ⊡NA ⊡NE
DETAILS:	
1. SAMPLES TAKEN AT SITE(S) SPECIFIED IN PERMIT:	
2. LOCATIONS ADEQUATE FOR REPRESENTATIVE SAMPLES:	
3. FLOW PROPORTIONED SAMPLES OBTAINED WHEN REQUIRED BY PERMIT:	DY DN DNA ØNE
4. SAMPLING AND ANALYSES COMPLETED ON PARAMETERS SPECIFIED IN PERMIT:	
5. SAMPLING AND ANALYSES PERFORMED AT FREQUENCY SPECIFIED IN PERMIT:	
6. SAMPLE COLLECTION PROCEDURES ADEQUATE:	
a. SAMPLES REFRIGERATED DURING COMPOSITING:	
b. PROPER PRESERVATION TECHNIQUES USED:	
c. CONTAINERS AND SAMPLE HOLDING TIMES CONFORM TO 40 CFR 136:	
7. IF MONITORING IS PERFORMED MORE OFTEN THAN REQUIRED ARE RESULTS REPORTED ON THE DMR:	
SECTION E: FLOW MEASUREMENT	
PERMITTEE FLOW MEASUREMENT MEETS PERMIT REQUIREMENTS	ØS OM OU ONA ONE
DETAILS:	
1. PRIMARY FLOW MEASUREMENT DEVICE PROPERLY INSTALLED AND MAINTAINED: TYPE OF DEVICE: 18" Parshall Flume	Øy 🛛 n 🖓 na 🖓 ne
2. FLOW MEASURED AT EACH OUTFALL AS REQUIRED:	Øy 🛛 n 🖓 na 🖓 ne
3. SECONDARY INSTRUMENTS (TOTALIZERS, RECORDERS, ETC.) PROPERLY OPERATED AND MAINTAINED:	
4. CALIBRATION FREQUENCY ADEQUATE:	
5. RECORDS MAINTAINED OF CALIBRATION PROCEDURES:	Øy 🛛 n 🖾 na 🖾 ne
6. CALIBRATION CHECKS DONE TO ASSURE CONTINUED COMPLIANCE:	Øy 🛛 n 🖾 na 🖾 ne
7. FLOW ENTERING DEVICE WELL DISTRIBUTED ACROSS THE CHANNEL AND FREE OF TURBULENCE:	Øy 🛛 n 🗆 na 🖾 ne
8. FLOW MEASUREMENT EQUIPMENT ADEQUATE TO HANDLE EXPECTED RANGE OF FLOW RATES:	
9. HEAD MEASURED AT PROPER LOCATION:	Øy 🛛 n 🖾 na 🖾 ne
SECTION F: LABORATORY	
PERMITTEE LABORATORY PROCEDURES MEET PERMIT REQUIREMENTS	OS OM OU ONA ØNE
1. EPA APPROVED ANALYTICAL PROCEDURES USED (40 CFR 136.3 FOR LIQUIDS, 503.8(B) FOR SLUDGES) :	
2. IF ALTERNATIVE ANALYTICAL PROCEDURES ARE USED, PROPER APPROVAL HAS BEEN OBTAINED:	
SATISFACTORY CALIBRATION AND MAINTENANCE OF INSTRUMENTS AND EQUIPMENT:	
QUALITY CONTROL PROCEDURES ADEQUATE: DUDUCATE SAMPLES ARE ANALYZED \$40% OF THE TIME:	
5. DUPLICATE SAMPLES ARE ANALYZED ≥10% OF THE TIME:	DY DN DNA ØNE
6. SPIKED SAMPLES ARE ANALYZED ≥10% OF THE TIME:	
7. COMMERCIAL LABORATORY USED: a. LAB NAME:	
b. LAB ADDRESS:	
c. PARAMETERS PERFORMED:	
8. BIOMONITORING PROCEDURES ADEQUATE:	
a. PROPER ORGANISMS USED:	
b. PROPER DILUTION SERIES FOLLOWED:	
c. PROPER TEST METHODS AND DURATION:	
d. RETESTS AND/OR TRE PERFORMED AS REQUIRED:	

SECTION G: EFFLUENT/RECEIVING WATERS OBSERVATIONS										
BASED ON VISUAL OBSERVATIONS ONLY										
DETAILS:					·					
OUTFALL #:	OIL SHEEN	GREASE	TURBIDITY	VISIBLE FOAM	FLOATING SOLIDS	COLOR	OTHER			
001	None	None	None	None	None	Clear				
SECTION H: SLUDGE DISPOSAL										
SLUDGE DISPOSAL MEETS PERMIT REQUIREMENTS										
DETAILS:										
1. SLUDGE M	ANAGEMENT ADEQU	ATE TO MAINTAIN EF	FLUENT QUALITY:			⊠s ⊡m				
2. SLUDGE R	ECORDS MAINTAINED	AS REQUIRED BY 40	) CFR 503:			⊠s ⊡m	DU DNA ØNE			
3. FOR LAND	APPLIED SLUDGE, TY	PE OF LAND APPLIE	D TO: (E.G., FOREST,	AGRICULTURAL, PUE	BLIC CONTACT SITE):					
SECTION I:	SAMPLING IN	SPECTION PRO	CEDURES							
SAMPLE F	RESULTS WITH	HIN PERMIT R	EQUIREMENT	S			U ⊠NA ⊡NE			
DETAILS:										
1. SAMPLES	OBTAINED THIS INSPE	ECTION:				ΠY	On Øna One			
2. TYPE OF S	AMPLE: GRAB:		IETHOD: FREQUE	NCY:						
3. SAMPLES I	PRESERVED:					ΠY	□n Øna □ne			
4. FLOW PRC	PORTIONED SAMPLE	S OBTAINED:				ΠY	On Øna One			
5. SAMPLE O	BTAINED FROM FACIL	LITY'S SAMPLING DEV	/ICE:			ΠY	On Øna One			
6. SAMPLE R	EPRESENTATIVE OF	VOLUME AND NATUR	E OF DISCHARGE:			ΠY	On Øna One			
7. SAMPLE SI	PLIT WITH PERMITTE	E:				ΠY	□n Øna □ne			
8. CHAIN-OF-	CUSTODY PROCEDU	RES EMPLOYED:				ΠY	□n Øna □ne			
9. SAMPLES	COLLECTED IN ACCO	RDANCE WITH PERM	IT:			ΠY	□n Øna □ne			
	: STORM WAT									
	ATER MANAG	EMENT MEET	S PERMIT RE	QUIREMENTS			U ⊡NA ØNE			
DETAILS:										
1. SWPPP UP	DATED AS NEEDED:	_ DATE OF LAST UP	DATE:				□n □na Øne			
2. SITE MAP I	NCLUDING ALL DISCH	HARGES AND SURFAC	CE WATERS:				On Ona Øne			
3. POLLUTIO	N PREVENTION TEAM	IDENTIFIED:					On Ona Øne			
4. POLLUTIO	N PREVENTION TEAM	PROPERLY TRAINED	):			ΠY	⊡n ⊡na Øne			
5. LIST OF PC	DTENTIAL POLLUTANT	SOURCES:								
6. LIST OF PC	DTENTIAL SOURCES A	AND PAST SPILLS AND	D LEAKS:							
7. ALL NON-S	TORM WATER DISCH	ARGES ARE AUTHOR	IZED:							
8. LIST OF ST	RUCTURAL BMPS:									
9. LIST OF NO	ON-STRUCTURAL BMF	PS:								
10. BMPS PRO	PERLY OPERATED A	ND MAINTAINED:								
11. INSPECTIC	ONS CONDUCTED AS I	REQUIRED:				ΠY	□n □na Øne			

## Inspection Report: City of Bentonville, AFIN: 04-00154, Permit #: ARR0022403

# FLOW CALCULATION SHEET

Date: 6/1	3/2023	Time: 10:	32		
Head in Inc	ches: <b>8.75</b>	Feet:	0.729		
Tupo & Siz	o of Primary Floy	Moosuror	nont Dovice	· 18" Darch	all Elumo
i ype a Siz	e of Primary Flow			. IO Faisii	
Name & Mo	odel of Secondar	ry Flow Mea	asurement [	Device: <b>ISC</b>	CO 3010
Date of las	t Calibration of S	econdary F		3/21/202	2
		econdary i		J/2 1/202	.0
Recorded I	Flow at Date & Ti	ime Listed A	Above: 2.3	340	(Facility Flow Meter)
	Flow at Data 9 7		Above	200	
-	Flow at Date & 1 ted using flow charts in			.390 asurement Hand	book 5 <sup>th</sup> Edition)
					UUUK-D EUHUHI
, <u></u>	1				
	Recorded Valu	ie - Calo	culated Valu		
	Recorded Valu		culated Valu		
% Error =	Recorded Valu Cal	ie - Calo	culated Valuue	x 100	
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% Error = % Error = % Error = % Error =	Recorded Valu       Cal       2.340       0.05       2.390	ue - Calo culated Val 2.390 X 100	culated Valuue	x 100	
% Error = % Error = % Error =	Recorded Valu     Cal     2.340     0.05     2.390     .0209     2.09	ue - Calo culated Val 2.390 - X 100 X 100	culated Valuue	x 100	

### **DMR Calculation Check**

Reporting Period:	From	2022 Year	02 Month	01 Day	_ To _	2022 Year	02 Month	<u>28</u> Day
Parameter Checked:		CBOD5	-					
		Loading Mass					ntration	
	Mo.	Avg Ibs/c	lay	Mo. A	vg r	ng/l	7-day Avg	g mg/l
Reported Value:		45.2			2.0		2.0	)
Calculated Value:		45.2			2.0		2.(	)
Permit Value:		333.6			10		15	;

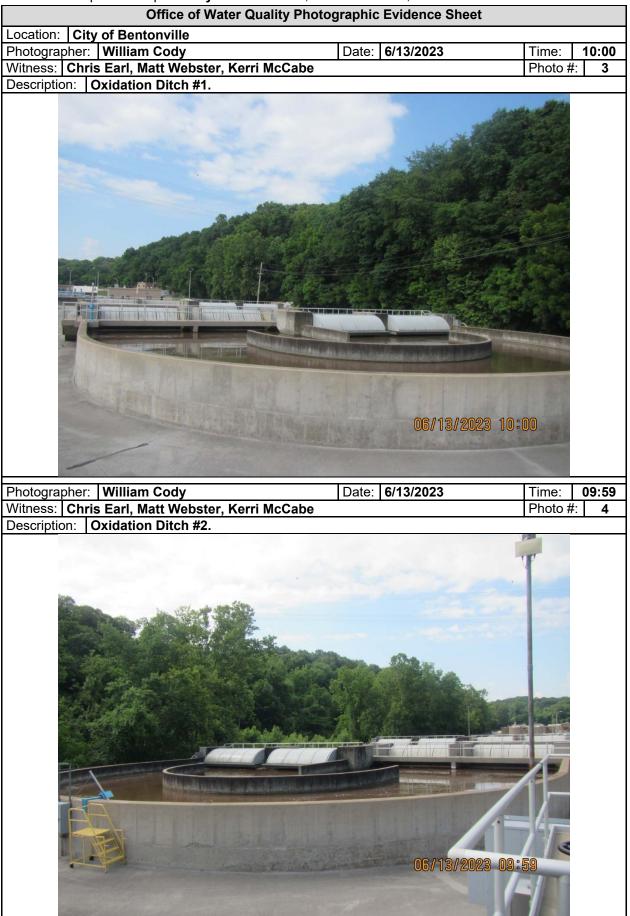
If calculated value does not equal reported value, explain:

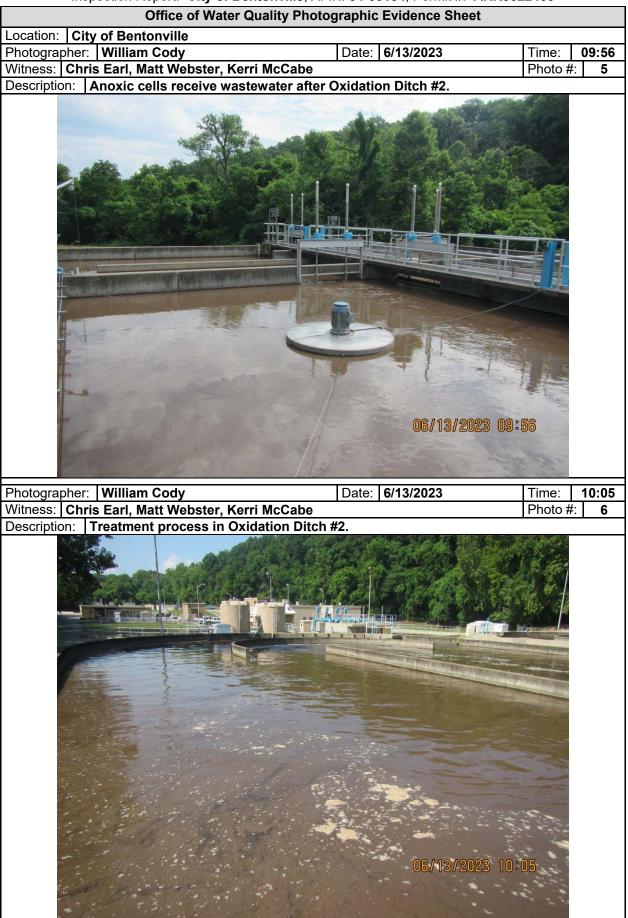
## **DMR Calculation Check**

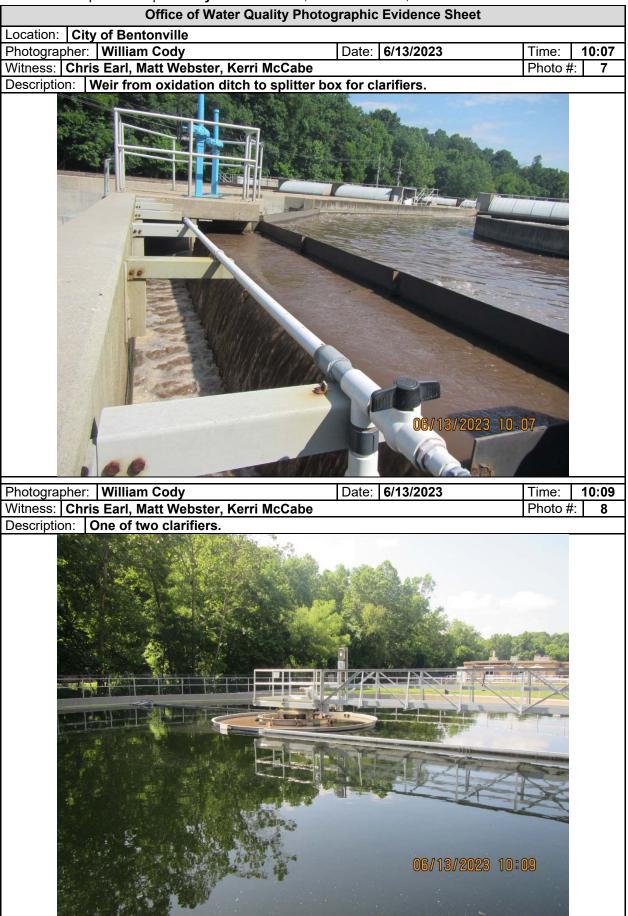
Reporting Period:	From	2022 Year	<u>11</u> Month	01 Day	_ To _	2022 Year	11 Month	<u>30</u> Day
Parameter Checked:		TSS	-					
		Loading Mass				Concer Mon		
	Mo.	Avg Ibs/c	lay	Mo. A	vg r	ng/l	7-day Avg	J mg/l
Reported Value:		67.7	·		2.9		4.2	2
Calculated Value:		67.7	·		2.9		4.2	
Permit Value:		500			15		22.	5

If calculated value does not equal reported value, explain:



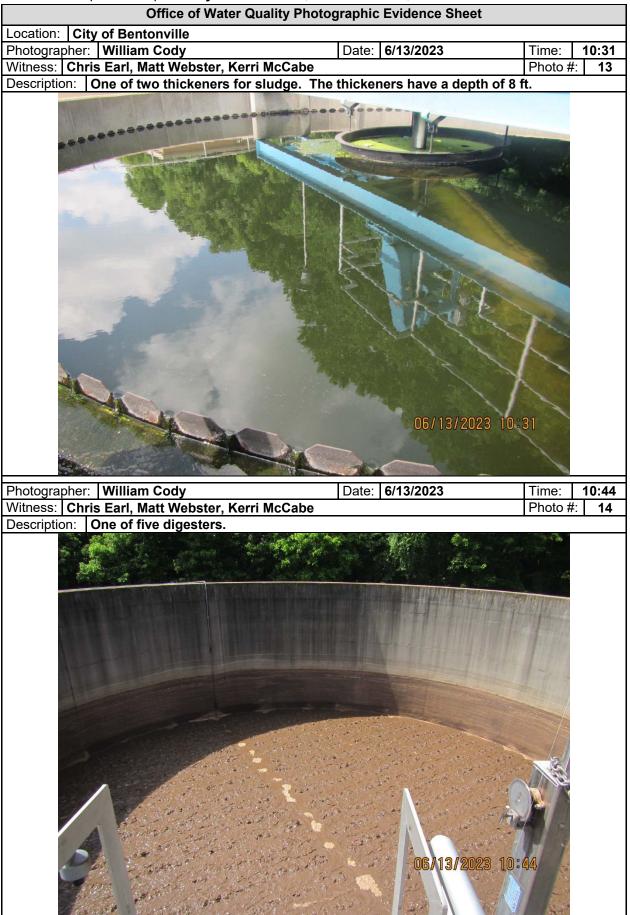




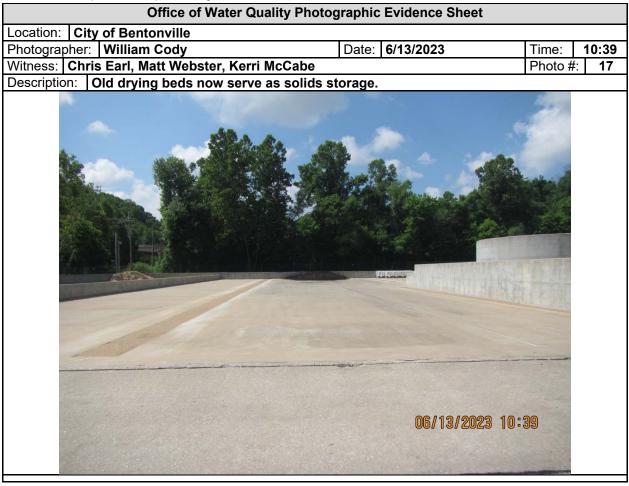




Office of Water Quality Photo	ographic Evidence Sheet	
Location: City of Bentonville		
Photographer: William Cody	Date: 6/13/2023	Time: 10:29
Witness: Chris Earl, Matt Webster, Kerri McCabe		Photo #: 11
Description: 18" Parshall Flume for effluent.		
	06/13/2023 10:	29
Photographer: William Cody	Date: 6/13/2023	Time: 10:22
Witness: Chris Earl, Matt Webster, Kerri McCabe		Photo #: <b>12</b>
Description: Outfall 001 to Town Branch Creek.		









Attachment 1. Google Earth imagery for the City of Bentonville Wastewater Treatment Facility.