



ARKANSAS

ENERGY & ENVIRONMENT

November 15, 2021

Mr. David Vondran, General Manager
Benton Utilities
1827 Dale Ave.
Benton, AR 72015

RE: Benton Utilities - WTP Inspection
AFIN: 63-00063 Permit No.: AR0036498

Dear Mr. Vondran:

On August 20, 2021, 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 Bolenbaugh@adeq.state.ar.us or 501-682-0659.

Sincerely,

A handwritten signature in black ink, appearing to read 'Jason Bolenbaugh'.


Jason Bolenbaugh
Compliance Branch Manager, Office of Water Quality
5301 Northshore Drive, North Little Rock, AR, 72118

CC: Mr. David Vondran, General Manager, Benton Utilities, dvondran@bentonutilities.com
Mr. Greg Becker, Chief Operator, Benton Utilities, gbecker@bentonutilities.com

 <p>ENVIRONMENTAL QUALITY</p>	OFFICE OF WATER QUALITY INSPECTION REPORT				
	AFIN: 63-00063	PERMIT #: AR0036498	DATE: 8/20/2021		
	COUNTY: 63 Saline	PDS #: 118169	MEDIA: WN		
	GPS LAT: 34.551693 LONG: -92.593281 LOCATION: Outfall				
FACILITY INFORMATION		INSPECTION INFORMATION			
NAME: Benton Utilities - WTP LOCATION: 616 Hazel Rd. CITY: Benton		FACILITY TYPE: 1 - Municipal INSPECTOR ID#: 83321 S - State FACILITY EVALUATION RATING: *** INSPECTION TYPE: Compliance Evaluation			
RESPONSIBLE OFFICIAL		DATE(S): ENTRY TIME: EXIT TIME: PERMIT EFFECTIVE DATE: 8/20/2021 09:00 11:45 4/1/2021 PERMIT EXPIRATION DATE: 3/31/2026			
NAME: / TITLE Mr. David Vondran / General Manager COMPANY: Benton Utilities MAILING ADDRESS: 1827 Dale Ave. CITY, STATE, ZIP: Benton AR 72015 PHONE & EXT: / FAX: 501-766-5984 / EMAIL: dvondran@bentonutilities.com		FAYETTEVILLE SHALE RELATED: N FAYETTEVILLE SHALE VIOLATIONS: N			
CONTACTED DURING INSPECTION: No		INSPECTION PARTICIPANTS			
		NAME/TITLE/PHONE/FAX/EMAIL/ETC.: Mr. Greg Becker, WW Superintendent, Benton Utilities Mr. Tom Johnson, Chief Operator, Benton Utilities			
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
S	OPERATION & MAINTENANCE	S	EFFLUENT/RECEIVING WATER	S	SELF-MONITORING PROGRAM
S	SAMPLING	S	SLUDGE HANDLING/DISPOSAL	N	PRETREATMENT
**	OTHER:				
SUMMARY OF FINDINGS					
<p>No violations were noted at the time of the inspection. The following are observations made during the inspection.</p> <ul style="list-style-type: none"> The facility experiences overflows within the treatment plant from manholes 14 and 15. The manholes are only 5-6 feet below the ground surface. Overflows tend to settle within a grass area. Vac trucks are brought in to pump the overflow area and the area is disinfected. The overflows are reported. No further action is required. During the July 23, 2019 inspection the permittee was required to repair an impeller within an anaerobic zone of Oxidation Ditch #1. The permittee completed the project in a timely manner but a letter was not sent closing the inspection. All impellers were fully operational during this inspection and therefore the violation noted in the previous inspection is resolved. Facility personnel have developed more defined maintenance schedules for all equipment. Mr. Johnson and his staff maintain all of the treatment units very well but now they are completing maintenance activities according to specifications so that the treatment units are maintained on schedule but so that they also are not over-maintained (e.g. over greasing of bearings) which can be a waste of resources. For example, the fine screens are cleaned once a month on Tuesday and the clarifiers and UV system are cleaned on Thursday and Friday since the laboratory prefers to begin sampling during the beginning of the week. In the near future the permittee intends to replace both Waste Activated Sludge pumps as one pump currently can only be controlled manually. 					

GENERAL COMMENTS

- The facility's design flow is 8.3 MGD. The treatment type consists of fine screening, grit removal, activated sludge aeration, clarification, post aeration, and UV disinfection. Biosolids are either hauled to a Class I landfill or hauled, marketed, and distributed through a composting company. Biosolids may also be land applied under State No-Discharge Permit 4359-WR-4.
- This facility does not receive any process wastewater from Significant Industrial Users (SIU) and therefore is not required to develop an approved pretreatment program at this time.
- A Collection System Evaluation/Sanitary Sewer Overflow inspection was also conducted and the report will be emailed with this inspection report. No violations were noted during that inspection.
- DEQ appreciates the timely assistance by Mr. Becker and Mr. Johnson to provide a considerable amount of documentation for review.

INSPECTOR'S SIGNATURE:	←Click text to left to add signature	-Inspector Name	DATE:
SUPERVISOR'S SIGNATURE:			DATE: 11/12/2021
Jason Bolenbaugh			

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: Email address has changed since a change of authorization request was submitted on December 9, 2019. The cover letter has the correct email addresses for Mr. Vondran and Mr. Becker.	<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: Outfall 001	<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: Reviewed 4/6/21 COC	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
b. EXACT LOCATION(S) OF SAMPLING: Outfall 001	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
c. NAME OF INDIVIDUAL PERFORMING SAMPLING: A. Freeman (Benton Utilities)	<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: A. Freeman	<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 checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
3. STANDBY POWER OR OTHER EQUIVALENT PROVIDED: There are permanent backup generators on site.	<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: Treatment plant is on SCADA so all may be monitored but not controlled by SCADA.	<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: Spare parts list provided by Mr. Becker.	<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 type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input checked="" 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: The facility experiences overflows within the treatment plant from manholes 14 and 15. The manholes are only 5-6 feet below the ground surface. Overflows tend to settle within a grass area. Vac trucks are brought in to pump the overflow area and the area is disinfected.	<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: Outfall 001 on 4/6/21 @ 0853	<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? TYPE OF DEVICE: 3 ft. Parshall Flume	<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: Eastech Ultrasonic Vantage 2210.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
4. CALIBRATION FREQUENCY ADEQUATE: Last calibrated on March 10, 2021	<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: Upon request, Benton Utility provided requested laboratory documents to the Office of Water Quality for review of laboratory procedures.	
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 type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input checked="" type="checkbox"/> NE
5. DUPLICATE SAMPLES ARE ANALYZED \geq 10% OF THE TIME:	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input checked="" type="checkbox"/> NE
6. SPIKED SAMPLES ARE ANALYZED \geq 10% OF THE TIME:	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input checked="" type="checkbox"/> NE
7. COMMERCIAL LABORATORY USED: Benton Utilities samples and analyzes for CBOD₅, TSS, NH₃-N, FCB, DO, and pH	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
a. LAB NAME: American Interplex Corporation	
b. LAB ADDRESS: 8600 Kanis Rd., Little Rock, AR, 72204	
c. PARAMETERS PERFORMED: WET Testing, TP, NO₃+NO₂-N, TDS, Hardness	
8. BIOMONITORING PROCEDURES ADEQUATE: Reviewed 3rd Quarter 2021 report	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
a. PROPER ORGANISMS USED: Ceriodaphnia dubia and Pimephales promelas	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
b. PROPER DILUTION SERIES FOLLOWED: 32%, 42%, 56%, 75%, and 100% (Critical)	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
c. PROPER TEST METHODS AND DURATION: P. promelas (Test 1000.0), Sample Collection: , Test Initiated: 7/13 @ 1353 , Test Terminated: 7/20 @1445 C. dubia (Test 1002.0), Sample Collection , Test Initiated: 7/13 @ 1255, Test Terminated: 7/19 @1327	<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 type="checkbox"/> Y <input checked="" 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: The discharge and receiving stream was clear and did not have an odor.							
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						<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE	
DETAILS: Sludge disposal methods are landfill, composting contractor, or land application.							
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 type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input checked="" type="checkbox"/> NE	
3. FOR LAND APPLIED SLUDGE, TYPE OF LAND APPLIED TO: (E.G., FOREST, AGRICULTURAL, PUBLIC CONTACT SITE): Benton Utilities has a land application permit, 4359-WR-4. This permit was effective on January 1, 2021. No land application occurred in 2020 under the previous permit, 4359-WR-3.							
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: No samples were collected during this inspection.							
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 type="checkbox"/> NA <input checked="" type="checkbox"/> NE	
DETAILS: This facility has an Industrial General Stormwater Permit, ARR00C399. The compliance of permit conditions was not addressed during this inspection.							
1. SWPPP UPDATED AS NEEDED: DATE OF LAST UPDATE:						<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input checked="" type="checkbox"/> NE	
2. SITE MAP INCLUDING ALL DISCHARGES AND SURFACE WATERS:						<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input checked="" type="checkbox"/> NE	
3. POLLUTION PREVENTION TEAM IDENTIFIED:						<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input checked="" type="checkbox"/> NE	
4. POLLUTION PREVENTION TEAM PROPERLY TRAINED:						<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input checked="" type="checkbox"/> NE	
5. LIST OF POTENTIAL POLLUTANT SOURCES:						<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input checked="" type="checkbox"/> NE	
6. LIST OF POTENTIAL SOURCES AND PAST SPILLS AND LEAKS:						<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input checked="" type="checkbox"/> NE	
7. ALL NON-STORM WATER DISCHARGES ARE AUTHORIZED:						<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input checked="" type="checkbox"/> NE	
8. LIST OF STRUCTURAL BMPS:						<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input checked="" type="checkbox"/> NE	
9. LIST OF NON-STRUCTURAL BMPS:						<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input checked="" type="checkbox"/> NE	
10. BMPS PROPERLY OPERATED AND MAINTAINED:						<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input checked="" type="checkbox"/> NE	
11. INSPECTIONS CONDUCTED AS REQUIRED:						<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input checked="" type="checkbox"/> NE	

FLOW CALCULATION SHEET

FLOW CALCULATION SHEET				
Date:	8/20/2021	Time:	10:21	
Head in Inches:		Feet:	0.7	
Type & Size of Primary Flow Measurement Device: 3 ft. Parshall Flume				
Name & Model of Secondary Flow Measurement Device: Eastech Vantage 2210 Ultrasonic Flow/Level Meter				
Date of last Calibration of Secondary Flow Device: 3/10/2021				
Recorded Flow at Date & Time Listed Above:	4.4 MGD	(Facility Flow Meter)		
Calculated Flow at Date & Time Listed Above:	4.437 MGD			
<small>(Flow is calculated using flow charts in: <u>ISCO Open Channel Flow Measurement Handbook-5th Edition</u>)</small>				
% Error =	Recorded Value	-	Calculated Value	X 100
	Calculated Value			
% Error =	4.4	-	4.437	X 100
	4.437			
% Error =	-0.037	X 100		
	4.437			
% Error =	-0.00833	X 100		
% Error =	-0.83	%		
Comments: Flow meter is within ± 10% of the expected flow.				

DMR Calculation Check

Reporting Period: From 2021 05 01 To 2021 05 31
 Year Month Day Year Month Day

Parameter Checked: NH₃-N

	Loading Mass Mo. Avg. - lbs/day	Concentration Monthly	
		Mo. Avg. - mg/l	7-day Avg. - mg/l
Reported Value:	<u><2.73</u>	<u><0.05</u>	<u>0.06</u>
Calculated Value:	<u><2.7</u>	<u><0.046</u>	<u>0.06</u>
Permit Value:	<u>103.8</u>	<u>1.5</u>	<u>2.3</u>

If calculated value does not equal reported value, explain:

Office of Water Quality Photographic Evidence Sheet

Location:	Benton Utilities - WTP		
Photographer:	Jason Bolenbaugh	Date:	8/20/2021
Witness:		Time:	09:35
		Photo #:	1
Description:	DSCN3109: Fine Screens 3 & 4.		



Photographer:	Jason Bolenbaugh	Date:	8/20/2021
Witness:		Time:	09:34
		Photo #:	2
Description:	DSCN3107: Fine Screen #3.		



Office of Water Quality Photographic Evidence Sheet

Location:	Benton Utilities - WTP				
Photographer:	Jason Bolenbaugh	Date:	8/20/2021	Time:	09:37
Witness:				Photo #:	3
Description:	DSCN3112: Fine Screen #2.				



Photographer:	Jason Bolenbaugh	Date:	8/20/2021	Time:	09:37
Witness:				Photo #:	4
Description:	DSCN3113: Fine Screen #2.				



Office of Water Quality Photographic Evidence Sheet

Location:	Benton Utilities - WTP		
Photographer:	Jason Bolenbaugh	Date:	8/20/2021
Witness:		Time:	09:38
		Photo #:	5
Description:	DSCN3114: Fine Screen #2 waste removed during treatment.		



Photographer:	Jason Bolenbaugh	Date:	8/20/2021
Witness:		Time:	09:42
		Photo #:	6
Description:	DSCN3117: Waste Activated Sludge pumps to be replaced.		



Office of Water Quality Photographic Evidence Sheet

Location:	Benton Utilities - WTP		
Photographer:	Jason Bolenbaugh	Date:	8/20/2021
Witness:		Time:	09:59
		Photo #:	7
Description:	DSCN3123: Anaerobic zone in Oxidation Ditch #1.		



Photographer:	Jason Bolenbaugh	Date:	8/20/2021
Witness:		Time:	10:00
		Photo #:	8
Description:	DSCN3125: Anoxic zone of Oxidation Ditch #1.		



Office of Water Quality Photographic Evidence Sheet

Location:	Benton Utilities - WTP		
Photographer:	Jason Bolenbaugh	Date:	8/20/2021
Witness:		Time:	10:02
		Photo #:	9
Description:	DSCN3128: Aeration side of Oxidation Ditch #1.		



Photographer:	Jason Bolenbaugh	Date:	8/20/2021
Witness:		Time:	10:05
		Photo #:	10
Description:	DSCN3130: Discharge from Oxidation Ditch #2.		



Office of Water Quality Photographic Evidence Sheet

Location:	Benton Utilities - WTP		
Photographer:	Jason Bolenbaugh	Date:	8/20/2021
Witness:		Time:	10:08
		Photo #:	11
Description:	DSCN3131: Clarifier #3.		



Photographer:	Jason Bolenbaugh	Date:	8/20/2021
Witness:		Time:	10:08
		Photo #:	12
Description:	DSCN3132: Another view of Clarifier #3.		



Office of Water Quality Photographic Evidence Sheet

Location:	Benton Utilities - WTP		
Photographer:	Jason Bolenbaugh	Date:	8/20/2021
Witness:		Time:	10:13
		Photo #:	13
Description:	DSCN3134: Clarifiers #2 (foreground) and #1 (background).		



Photographer:	Jason Bolenbaugh	Date:	8/20/2021
Witness:		Time:	10:17
		Photo #:	14
Description:	DSCN3139: UV channel.		



Office of Water Quality Photographic Evidence Sheet

Location:	Benton Utilities - WTP		
Photographer:	Jason Bolenbaugh	Date:	8/20/2021
Witness:		Time:	10:19
		Photo #:	15
Description:	DSCN3141: Post aeration basin.		



08.20.2021 10:19

Photographer:	Jason Bolenbaugh	Date:	8/20/2021
Witness:		Time:	10:19
		Photo #:	16
Description:	DSCN3144: Post aeration blowers.		



08.20.2021 10:19

Office of Water Quality Photographic Evidence Sheet

Location:	Benton Utilities - WTP		
Photographer:	Jason Bolenbaugh	Date:	8/20/2021
Witness:		Time:	10:21
		Photo #:	17
Description:	DSCN3146: Effluent flow totalizing meter reading 4.4 MGD.		



Photographer:	Jason Bolenbaugh	Date:	8/20/2021
Witness:		Time:	10:21
		Photo #:	18
Description:	DSCN3147: Staff gauge on 3' Parshall Flume reading approximately .7 feet of head.		



Office of Water Quality Photographic Evidence Sheet

Location:	Benton Utilities - WTP		
Photographer:	Jason Bolenbaugh	Date:	8/20/2021
Witness:		Time:	10:22
		Photo #:	19
Description:	DSCN3149: Effluent discharge through the Parshall Flume.		



Photographer:	Jason Bolenbaugh	Date:	8/20/2021
Witness:		Time:	10:22
		Photo #:	20
Description:	DSCN3150: Effluent discharge to the receiving stream.		



Office of Water Quality Photographic Evidence Sheet

Location:	Benton Utilities - WTP		
Photographer:	Jason Bolenbaugh	Date:	8/20/2021
Witness:		Time:	10:26
		Photo #:	21
Description:	DSCN3155: Sludge Press.		



Photographer:	Jason Bolenbaugh	Date:	8/20/2021
Witness:		Time:	10:27
		Photo #:	22
Description:	DSCN3157: Top of the sludge press where dewatering begins.		



Office of Water Quality Photographic Evidence Sheet

Location:	Benton Utilities - WTP		
Photographer:	Jason Bolenbaugh	Date:	8/20/2021
Witness:		Time:	10:29
		Photo #:	23
Description:	DSCN3161: Sludge Feed Hopper thence to Sludge Dryer.		



Photographer:	Jason Bolenbaugh	Date:	8/20/2021
Witness:		Time:	10:28
		Photo #:	24
Description:	DSCN3160: Sludge Dryer.		



Office of Water Quality Photographic Evidence Sheet

Location:	Benton Utilities - WTP		
Photographer:	Jason Bolenbaugh	Date:	8/20/2021
Witness:		Time:	10:40
		Photo #:	25
Description:	DSCN3164: Digester #1.		



Photographer:	Jason Bolenbaugh	Date:	8/20/2021
Witness:		Time:	10:42
		Photo #:	26
Description:	DSCN3165: Digester #3.		

