ADEQ

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

May 4, 2018

Eugene Townsley, Plant Superintendent
Batesville Water Utilities
500 Riverbank Rd
Batesville, AR 72501

RE: Batesville WWTP Inspection (Independence Co)
AFIN: 32-00044 NPDES Permit No.: AR0020702

Dear Mr. Townsley:

On March 14, 2018, 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 attached inspection report for any comments.

If I can be of any assistance, please contact me at schlicks@adeq.state.ar.us or 870-424-3322 ext. 2.

Sincerely,

Skyler Schlick

Skyler Schlick
District 2 Field Inspector
Water Division

ADEQ
ARKANSAS
Department of Environmental Quality

WATER DIVISION INSPECTION REPORT

AFIN: **32-00044** | PERMIT #: **AR0020702** | DATE: **3/14/2018**

COUNTY: **32 Independence** | PDS #: **102691** | MEDIA: **WN**

GPS LAT: **35.750608** LONG: **-91.625178** LOCATION: **General Area**

FACILITY INFORMATION

NAME:
Batesville WWTP
LOCATION:
500 Riverbank Rd
CITY:
Batesville

RESPONSIBLE OFFICIAL

NAME: / TITLE
Eugene Townsley / Plant Superintendent
COMPANY:
Batesville Water Utilities
MAILING ADDRESS:
500 Riverbank Rd
CITY, STATE, ZIP:
Batesville AR 72501
PHONE & EXT: / FAX:
870-698-2442 /
EMAIL:
wwsuper@cityofbatesville.com

CONTACTED DURING INSPECTION: **Yes**

INSPECTION INFORMATION

FACILITY TYPE: **1 - Municipal**
INSPECTOR ID#: **117208 S - State**
FACILITY EVALUATION RATING: **5 - Satisfactory**
INSPECTION TYPE: **Compliance Evaluation**
DATE(S): **3/14/2018**
ENTRY TIME: **09:00**
EXIT TIME: **12:05**
PERMIT EFFECTIVE DATE: **1/1/2017**
PERMIT EXPIRATION DATE: **12/31/2021**

FAYETTEVILLE SHALE RELATED: **N**

FAYETTEVILLE SHALE VIOLATIONS: **N**

INSPECTION PARTICIPANTS

NAME/TITLE/PHONE/FAX/EMAIL/ETC.:
Eugene Townsley (Lic# 001160)/Plant Superintendent/ (870) 698-2442/ wwsuper@cityofbatesville.com
Michael McDaniel (Lic# 004654)/ Pretreatment/ (870) 698-2442 / wwinspector@cityofbatesville.com
Kerri McCabe ADEQ Inspector Supervisor

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	******	SELF-MONITORING PROGRAM
S	SAMPLING	**S**	SLUDGE HANDLING/DISPOSAL	**N**	PRETREATMENT
******	OTHER:				

SUMMARY OF FINDINGS

No violations were noted during the inspection.

GENERAL COMMENTS

On March 14, 2018 an inspection was conducted with the above-mentioned inspection participants. The inspection consisted of a records review and a site assessment.

Records review:

The records are well-maintained and organized. The records from June and October of 2017 were verified for accuracy.

Site assessment:

The treatment consists of preliminary (communitors), aerated lagoons (Cell A and B), Equalization basins (Cell C and D; can be aerated), Moving Bed Biofilm Reactor (MBBR), Dissolved Air Floatation (DAF), chlorine contact chamber, and Outfall 002. There are three auger screw pumps to lift wastewater to the comminutors. There is an overflow system at the communitors. There is a septic tank pump out station prior to Cell A. There are two weir crossovers and three concrete spillways between Cell A and B. There is one crossover and three spillways between Cell B and C. There are three spillways between Cell C and D. Wastewater can be sent from Cell C and D of the equalization basin back to Cell A and B for treatment. Wastewater is sent from Cell B to a wet well (Structure 6) where it's pumped up to the MBBR. There are two trains with two sections each in the MBBR, which is for BOD and ammonia removal. Wastewater goes through each respective train (in parallel) and connects to a trough where it goes to the DAF. The DAF skimmings are sent to the start of Cell A. Wastewater is sent to a two-section chlorine contact chamber.

The aeration system was under construction, but is expected to be done prior to the summer months. Sludge is removed from Cell A and B and land applied under State permit 5099-W-1.

The city samples influent for process control daily and samples three non-categorical Industrial Users (IUs) at auto-samplers at the facilities and two other IUs self-sample and reports are sent to ADEQ.

The in-house lab was clean and organized and overview of methods of analysis was demonstrated.

INSPECTOR'S SIGNATURE: Skyler Schlick **Skyler Schlick**	DATE: **4/10/2018**
SUPERVISOR'S SIGNATURE: Kerri McCabe **Kerri McCabe**	DATE: **5/3/2018**

SECTION A: PERMIT VERIFICATION

PERMIT SATISFACTORILY ADDRESSES OBSERVATIONS	☑S ☐M ☐U ☐NA ☐NE
DETAILS:	
1. CORRECT NAME AND MAILING ADDRESS OF PERMITTEE:	☑Y ☐N ☐NA ☐NE
2. NOTIFICATION GIVEN TO EPA/STATE OF NEW DIFFERENT OR INCREASED DISCHARGES:	☐Y ☐N ☑NA ☐NE
3. NUMBER AND LOCATION OF DISCHARGE POINTS AS DESCRIBED IN PERMIT:	☑Y ☐N ☐NA ☐NE
4. ALL DISCHARGES ARE PERMITTED:	☑Y ☐N ☐NA ☐NE

SECTION B: RECORDKEEPING AND REPORTING EVALUATION

RECORDS AND REPORTS MAINTAINED AS REQUIRED BY PERMIT	☑S ☐M ☐U ☐NA ☐NE
DETAILS: **In-house lab conducts sampling; contract lab TP, NO3+ NO2-N, and WET testing.**	
1. ANALYTICAL RESULTS CONSISTENT WITH DATA REPORTED ON DMRS:	☐Y ☐N ☐NA ☐NE
2. SAMPLING AND ANALYSES DATA ADEQUATE AND INCLUDE:	☐S ☐M ☐U ☐NA ☐NE
a. DATES AND TIME(S) OF SAMPLING:	☐Y ☐N ☐NA ☐NE
b. EXACT LOCATION(S) OF SAMPLING:	☐Y ☐N ☐NA ☐NE
c. NAME OF INDIVIDUAL PERFORMING SAMPLING:	☐Y ☐N ☐NA ☐NE
d. ANALYTICAL METHODS AND TECHNIQUES:	☐Y ☐N ☐NA ☐NE
e. RESULTS OF CALIBRATIONS:	☐Y ☐N ☐NA ☐NE
f. RESULTS OF ANALYSES:	☐Y ☐N ☐NA ☐NE
g. DATES AND TIMES OF ANALYSES:	☐Y ☐N ☐NA ☐NE
h. NAME OF PERSON(S) PERFORMING ANALYSES:	☐Y ☐N ☐NA ☐NE
3. LABORATORY EQUIPMENT CALIBRATION AND MAINTENANCE RECORDS ADEQUATE:	☐S ☐M ☐U ☐NA ☐NE
4. PLANT RECORDS INCLUDE SCHEDULES, DATES OF EQUIPMENT MAINTENANCE AND REPAIR:	☐S ☐M ☐U ☐NA ☐NE
5. EFFLUENT LOADINGS CALCULATED USING DAILY EFFLUENT FLOW AND DAILY ANALYTICAL DATA:	☐Y ☐N ☐NA ☐NE

SECTION C: OPERATIONS AND MAINTENANCE

TREATMENT FACILITY PROPERLY OPERATED AND MAINTAINED	☑S ☐M ☐U ☐NA ☐NE
DETAILS:	
1. TREATMENT UNITS PROPERLY OPERATED:	☑S ☐M ☐U ☐NA ☐NE
2. TREATMENT UNITS PROPERLY MAINTAINED:	☑S ☐M ☐U ☐NA ☐NE
3. STANDBY POWER OR OTHER EQUIVALENT PROVIDED:	☑S ☐M ☐U ☐NA ☐NE
4. ADEQUATE ALARM SYSTEM FOR POWER OR EQUIPMENT FAILURES AVAILABLE:	☑S ☐M ☐U ☐NA ☐NE
5. ALL NEEDED TREATMENT UNITS IN SERVICE:	☑S ☐M ☐U ☐NA ☐NE
6. ADEQUATE NUMBER OF QUALIFIED OPERATORS PROVIDED: **Two (2) Class IV, four (4) Class III, one (1) Class II, and three (3) Class I.**	☑S ☐M ☐U ☐NA ☐NE
7. SPARE PARTS AND SUPPLIES INVENTORY MAINTAINED:	☑S ☐M ☐U ☐NA ☐NE
8. OPERATION AND MAINTENANCE MANUAL AVAILABLE:	☑Y ☐N ☐NA ☐NE
9. STANDARD OPERATING PROCEDURES AND SCHEDULES ESTABLISHED:	☑Y ☐N ☐NA ☐NE
10. PROCEDURES FOR EMERGENCY TREATMENT CONTROL ESTABLISHED:	☑Y ☐N ☐NA ☐NE
11. HAVE BYPASSES/OVERFLOWS OCCURRED AT THE PLANT OR IN THE COLLECTION SYSTEM IN THE LAST YEAR:	☑Y ☐N ☐NA ☐NE
12. IF SO, HAS THE REGULATORY AGENCY BEEN NOTIFIED:	☑Y ☐N ☐NA ☐NE
13. HAS CORRECTIVE ACTION BEEN TAKEN TO PREVENT ADDITIONAL BYPASSES/OVERFLOWS:	☑Y ☐N ☐NA ☐NE
14. HAVE ANY HYDRAULIC OVERLOADS OCCURRED AT THE TREATMENT PLANT:	☐Y ☑N ☐NA ☐NE
15. IF SO, DID PERMIT VIOLATIONS OCCUR AS A RESULT:	☐Y ☐N ☑NA ☐NE

SECTION D: SAMPLING	
PERMITTEE SAMPLING MEETS PERMIT REQUIREMENTS	☑S ☐M ☐U ☐NA ☐NE
DETAILS: **In-house lab conducts sampling; contract lab TP, NO3+ NO2-N, and WET testing.**	
1. SAMPLES TAKEN AT SITE(S) SPECIFIED IN PERMIT:	☑Y ☐N ☐NA ☐NE
2. LOCATIONS ADEQUATE FOR REPRESENTATIVE SAMPLES:	☑Y ☐N ☐NA ☐NE
3. FLOW PROPORTIONED SAMPLES OBTAINED WHEN REQUIRED BY PERMIT:	☑Y ☐N ☐NA ☐NE
4. SAMPLING AND ANALYSES COMPLETED ON PARAMETERS SPECIFIED IN PERMIT:	☑Y ☐N ☐NA ☐NE
5. SAMPLING AND ANALYSES PERFORMED AT FREQUENCY SPECIFIED IN PERMIT:	☑Y ☐N ☐NA ☐NE
6. SAMPLE COLLECTION PROCEDURES ADEQUATE:	☑Y ☐N ☐NA ☐NE
a. SAMPLES REFRIGERATED DURING COMPOSITING:	☑Y ☐N ☐NA ☐NE
b. PROPER PRESERVATION TECHNIQUES USED:	☑Y ☐N ☐NA ☐NE
c. CONTAINERS AND SAMPLE HOLDING TIMES CONFORM TO 40 CFR 136:	☑Y ☐N ☐NA ☐NE
7. IF MONITORING IS PERFORMED MORE OFTEN THAN REQUIRED ARE RESULTS REPORTED ON THE DMR:	☐Y ☐N ☑NA ☐NE

SECTION E: FLOW MEASUREMENT	
PERMITTEE FLOW MEASUREMENT MEETS PERMIT REQUIREMENTS	☑S ☐M ☐U ☐NA ☐NE
DETAILS:	
1. PRIMARY FLOW MEASUREMENT DEVICE PROPERLY INSTALLED AND MAINTAINED: **Yes** TYPE OF DEVICE: **36" Parshall flume**	☑Y ☐N ☐NA ☐NE
2. FLOW MEASURED AT EACH OUTFALL AS REQUIRED:	☑Y ☐N ☐NA ☐NE
3. SECONDARY INSTRUMENTS (TOTALIZERS, RECORDERS, ETC.) PROPERLY OPERATED AND MAINTAINED: **Teledyne ISCO Signature Ultra Sonic (totalizer)**	☑Y ☐N ☐NA ☐NE
4. CALIBRATION FREQUENCY ADEQUATE: **Last calibration Sept 28, 2017**	☑Y ☐N ☐NA ☐NE
5. RECORDS MAINTAINED OF CALIBRATION PROCEDURES:	☑Y ☐N ☐NA ☐NE
6. CALIBRATION CHECKS DONE TO ASSURE CONTINUED COMPLIANCE:	☐Y ☐N ☐NA ☑NE
7. FLOW ENTERING DEVICE WELL DISTRIBUTED ACROSS THE CHANNEL AND FREE OF TURBULENCE:	☑Y ☐N ☐NA ☐NE
8. FLOW MEASUREMENT EQUIPMENT ADEQUATE TO HANDLE EXPECTED RANGE OF FLOW RATES:	☑Y ☐N ☐NA ☐NE
9. HEAD MEASURED AT PROPER LOCATION:	☑Y ☐N ☐NA ☐NE

SECTION F: LABORATORY	
PERMITTEE LABORATORY PROCEDURES MEET PERMIT REQUIREMENTS	☑S ☐M ☐U ☐NA ☐NE
DETAILS: **In-house lab conducts sampling; contract lab TP, NO3+ NO2-N, and WET testing.**	
1. EPA APPROVED ANALYTICAL PROCEDURES USED (40 CFR 136.3 FOR LIQUIDS, 503.8(B) FOR SLUDGES) :	☑Y ☐N ☐NA ☐NE
2. IF ALTERNATIVE ANALYTICAL PROCEDURES ARE USED, PROPER APPROVAL HAS BEEN OBTAINED:	☐Y ☐N ☑NA ☐NE
3. SATISFACTORY CALIBRATION AND MAINTENANCE OF INSTRUMENTS AND EQUIPMENT:	☑Y ☐N ☐NA ☐NE
4. QUALITY CONTROL PROCEDURES ADEQUATE:	☑Y ☐N ☐NA ☐NE
5. DUPLICATE SAMPLES ARE ANALYZED ≥10% OF THE TIME:	☑Y ☐N ☐NA ☐NE
6. SPIKED SAMPLES ARE ANALYZED ≥10% OF THE TIME:	☑Y ☐N ☐NA ☐NE
7. COMMERCIAL LABORATORY USED:	☐Y ☐N ☑NA ☐NE
a. LAB NAME: **Arkansas Testing Laboratories**	
b. LAB ADDRESS: **3301 Langley Drive, Searcy, AR 72143**	
c. PARAMETERS PERFORMED: **NO3+NO2-N and Total P**	
8. BIOMONITORING PROCEDURES ADEQUATE: **American Interplex Corporation Laboratories, 8600 Kanis Road Little Rock, AR 72204**	☑Y ☐N ☐NA ☐NE
a. PROPER ORGANISMS USED:	☑Y ☐N ☐NA ☐NE
b. PROPER DILUTION SERIES FOLLOWED:	☑Y ☐N ☐NA ☐NE
c. PROPER TEST METHODS AND DURATION:	☑Y ☐N ☐NA ☐NE
d. RETESTS AND/OR TRE PERFORMED AS REQUIRED:	☐Y ☐N ☑NA ☐NE

SECTION G: EFFLUENT/RECEIVING WATERS OBSERVATIONS

BASED ON VISUAL OBSERVATIONS ONLY — ☑S ☐M ☐U ☐NA ☐NE

DETAILS: **Observed at Parshall flume and Outfall 002 at receiving stream.**

OUTFALL #:	OIL SHEEN	GREASE	TURBIDITY	VISIBLE FOAM	FLOATING SOLIDS	COLOR	OTHER
002	No	No	No	No	No	Clear	--

SECTION H: SLUDGE DISPOSAL

SLUDGE DISPOSAL MEETS PERMIT REQUIREMENTS — ☑S ☐M ☐U ☐NA ☐NE

DETAILS: **Land application under State No-Discharge 5099-W-1**

1. SLUDGE MANAGEMENT ADEQUATE TO MAINTAIN EFFLUENT QUALITY: ☑S ☐M ☐U ☐NA ☐NE
2. SLUDGE RECORDS MAINTAINED AS REQUIRED BY 40 CFR 503: ☑S ☐M ☐U ☐NA ☐NE
3. FOR LAND APPLIED SLUDGE, TYPE OF LAND APPLIED TO: (E.G., FOREST, AGRICULTURAL, PUBLIC CONTACT SITE): **Agricultural (city-owned)**

SECTION I: SAMPLING INSPECTION PROCEDURES

SAMPLE RESULTS WITHIN PERMIT REQUIREMENTS — ☐S ☐M ☐U ☑NA ☐NE

DETAILS:

1. SAMPLES OBTAINED THIS INSPECTION: ☐Y ☐N ☑NA ☐NE
2. TYPE OF SAMPLE: ☐GRAB:__ ☐COMPOSITE:__ METHOD:__ FREQUENCY:
3. SAMPLES PRESERVED: ☐Y ☐N ☑NA ☐NE
4. FLOW PROPORTIONED SAMPLES OBTAINED: ☐Y ☐N ☑NA ☐NE
5. SAMPLE OBTAINED FROM FACILITY'S SAMPLING DEVICE: ☐Y ☐N ☑NA ☐NE
6. SAMPLE REPRESENTATIVE OF VOLUME AND NATURE OF DISCHARGE: ☐Y ☐N ☑NA ☐NE
7. SAMPLE SPLIT WITH PERMITTEE: ☐Y ☐N ☑NA ☐NE
8. CHAIN-OF-CUSTODY PROCEDURES EMPLOYED: ☐Y ☐N ☑NA ☐NE
9. SAMPLES COLLECTED IN ACCORDANCE WITH PERMIT: ☐Y ☐N ☑NA ☐NE

SECTION J: STORM WATER POLLUTION PREVENTION PLAN

STORM WATER MANAGEMENT MEETS PERMIT REQUIREMENTS — ☑S ☐M ☐U ☐NA ☐NE

DETAILS: **Part II, Condition 4 requires BMPs for stormwater protection; no issues noted during inspection.**

1. SWPPP UPDATED AS NEEDED:__ DATE OF LAST UPDATE: ☐Y ☐N ☑NA ☐NE
2. SITE MAP INCLUDING ALL DISCHARGES AND SURFACE WATERS: ☐Y ☐N ☑NA ☐NE
3. POLLUTION PREVENTION TEAM IDENTIFIED: ☐Y ☐N ☑NA ☐NE
4. POLLUTION PREVENTION TEAM PROPERLY TRAINED: ☐Y ☐N ☑NA ☐NE
5. LIST OF POTENTIAL POLLUTANT SOURCES: ☐Y ☐N ☑NA ☐NE
6. LIST OF POTENTIAL SOURCES AND PAST SPILLS AND LEAKS: ☐Y ☐N ☑NA ☐NE
7. ALL NON-STORM WATER DISCHARGES ARE AUTHORIZED: ☐Y ☐N ☑NA ☐NE
8. LIST OF STRUCTURAL BMPS: ☐Y ☐N ☑NA ☐NE
9. LIST OF NON-STRUCTURAL BMPS: ☐Y ☐N ☑NA ☐NE
10. BMPS PROPERLY OPERATED AND MAINTAINED: ☐Y ☐N ☑NA ☐NE
11. INSPECTIONS CONDUCTED AS REQUIRED: ☐Y ☐N ☑NA ☐NE

FLOW CALCULATION SHEET

Date: **March 14,2018** Time: **11:56**

Head in Inches: Feet: **0.94**

Type & Size of Primary Flow Measurement Device: **36" Parshall flume**

Name & Model of Secondary Flow Measurement Device: **Teledyne ISCO Signature Ultra Sonic (totalizer)**

Date of last Calibration of Secondary Flow Device: **September 28, 2017**

Recorded Flow at Date & Time Listed Above: **7.62** (Facility Flow Meter)

Calculated Flow at Date & Time Listed Above:

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

$$\% \text{ Error} = \frac{\text{Recorded Value} - \text{Calculated Value}}{\text{Calculated Value}} \times 100$$

$$\% \text{ Error} = \frac{7.62 - 7.040}{7.040} \times 100$$

$$\% \text{ Error} = \frac{0.58}{7.040} \times 100$$

% Error = 0.0823 X 100

% Error = **8.23** %

Comments: **Within +/- 10% range; totalizer is reporting over.**

DMR Calculation Check

Reporting Period:	**From**	**2017**	**06**	**01**	**To**	**2017**	**06**	**30**
		Year	**Month**	**Day**		**Year**	**Month**	**Day**

Parameter Checked: **CBOD5**

	Loading	**Concentration**	
	Mass	**Monthly**	
	Mo. Avg. - lbs/day	**Mo. Avg. - mg/l**	**7-day Avg. - mg/l**
Reported Value:	**163.02**	**3.35**	**3.76**
Calculated Value:	**163.02**	**3.35**	**3.76**
Permit Value:	**1876.5**	**25**	**40**

If calculated value does not equal reported value, explain:

Values are the same; see Table 1 for calculations.

DMR Calculation Check

Reporting Period:	**From**	**2017** (Year)	**11** (Month)	**01** (Day)	**To**	**2017** (Year)	**11** (Month)	**30** (Day)

Parameter Checked: TSS

	Loading Mass Mo. Avg. - lbs/day	Concentration Monthly Mo. Avg. - mg/l	Concentration Monthly 7-day Avg. - mg/l
Reported Value:	200.47	5.85	7.0
Calculated Value:	200.47	5.85	7.0
Permit Value:	2251.8	30	45

If calculated value does not equal reported value, explain:

Values are the same; see Table 2 for calculations.

Water Division Photographic Evidence Sheet					
Location:	**Batesville WWTP**				
Photographer:	**Skyler Schlick**	Date:	**3/14/2018**	Time:	**0914**
Witness:	**Kerri McCabe**			Photo #:	**1**
Description:	**Bottom of influent screw pumps.**				

Photographer:	**Skyler Schlick**	Date:	**3/14/2018**	Time:	**0913**
Witness:	**Kerri McCabe**			Photo #:	**2**
Description:	**Top of three influent screw pumps.**				

Water Division Photographic Evidence Sheet					
Location:	**Batesville WWTP**				
Photographer:	**Skyler Schlick**	Date:	**3/14/2018**	Time:	**0925**
Witness:	**Kerri McCabe**			Photo #:	**3**
Description:	**Three communitors with overflow bypass.**				

Photographer:	**Skyler Schlick**	Date:	**3/14/2018**	Time:	**0932**
Witness:	**Kerri McCabe**			Photo #:	**4**
Description:	**Septic tank cleanout area.**				

Water Division Photographic Evidence Sheet					
Location:	**Batesville WWTP**				
Photographer:	**Skyler Schlick**	Date:	**3/14/2018**	Time:	**0935**
Witness:	**Kerri McCabe**			Photo #:	**5**
Description:	**Aeration pumps currently under repair.**				

Photographer:	**Skyler Schlick**	Date:	**3/14/2018**	Time:	**0934**
Witness:	**Kerri McCabe**			Photo #:	**6**
Description:	**View of Cell A and influent pipes.**				

Water Division Photographic Evidence Sheet					
Location:	**Batesville WWTP**				
Photographer:	**Skyler Schlick**	Date:	**3/14/2018**	Time:	**0945**
Witness:	**Kerri McCabe**			Photo #:	**7**
Description:	**Example of aeration diffusers on the bottom of the lagoon.**				

Photographer:	**Skyler Schlick**	Date:	**3/14/2018**	Time:	**0937**
Witness:	**Kerri McCabe**			Photo #:	**8**
Description:	**DAF return pipe.**				

Water Division Photographic Evidence Sheet					
Location:	**Batesville WWTP**				
Photographer:	**Skyler Schlick**	Date:		Time:	**0940**
Witness:	**Kerri McCabe**			Photo #:	**9**
Description:	**Generator.**				

Photographer:	**Skyler Schlick**	Date:	**3/14/2018**	Time:	**0950**
Witness:	**Kerri McCabe**			Photo #:	**10**
Description:	**Levee between Cell A and B.**				

Water Division Photographic Evidence Sheet					
Location:	**Batesville WWTP**				
Photographer:	**Skyler Schlick**	Date:	**3/14/2018**	Time:	**0951**
Witness:	**Kerri McCabe**			Photo #:	**11**
Description:	**Crossover between Cell A and B.**				

Photographer:	**Skyler Schlick**	Date:	**3/14/2018**	Time:	**0957**
Witness:	**Kerri McCabe**			Photo #:	**12**
Description:	**Example of a spillway and crossover between Cell A and B.**				

Water Division Photographic Evidence Sheet					
Location:	**Batesville WWTP**				
Photographer:	**Skyler Schlick**	Date:	**3/14/2018**	Time:	**1004**
Witness:	**Kerri McCabe**			Photo #:	**13**
Description:	**Levee between Cell B and C.**				

Photographer:	**Skyler Schlick**	Date:	**3/14/2018**	Time:	**1006**
Witness:	**Kerri McCabe**			Photo #:	**14**
Description:	**Cell C.**				

Water Division Photographic Evidence Sheet					
Location:	**Batesville WWTP**				
Photographer:	**Skyler Schlick**	Date:	**3/14/2018**	Time:	**1008**
Witness:	**Kerri McCabe**			Photo #:	**15**
Description:	**Levee between Cell C and D.**				

Photographer:	**Skyler Schlick**	Date:	**3/14/2018**	Time:	**1021**
Witness:	**Kerri McCabe**			Photo #:	**16**
Description:	**Wet well for Structure 6.**				

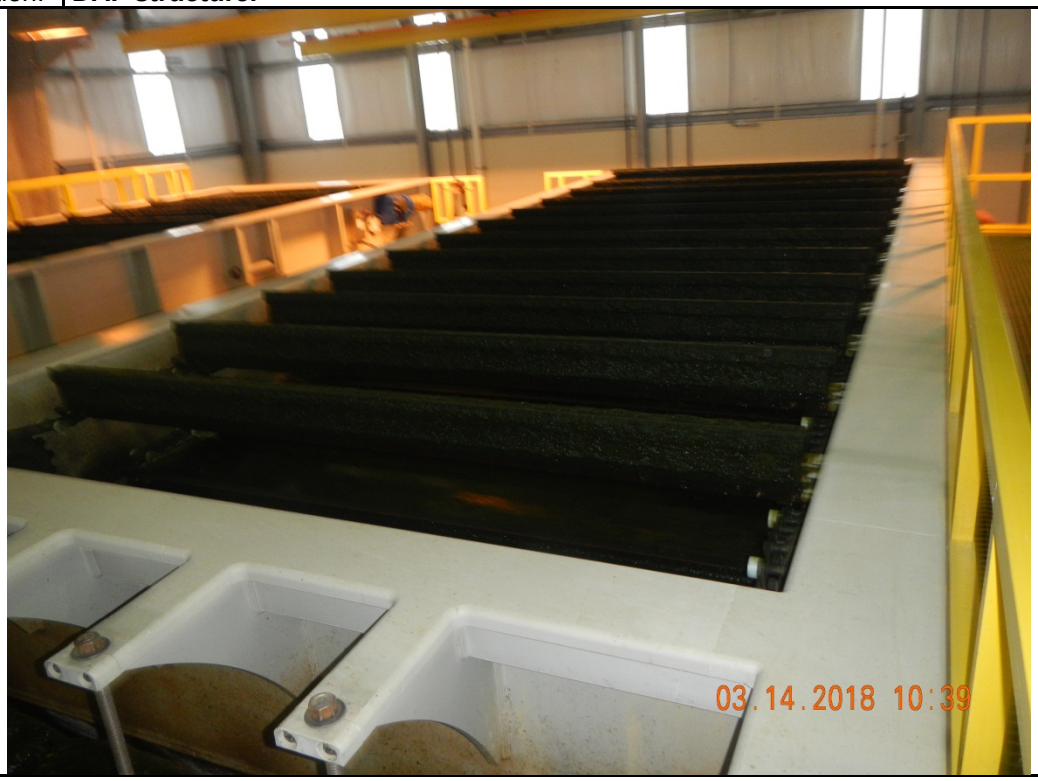
Water Division Photographic Evidence Sheet					
Location:	**Batesville WWTP**				
Photographer:	**Skyler Schlick**	Date:	**3/14/2018**	Time:	**1025**
Witness:	**Kerri McCabe**			Photo #:	**17**
Description:	**Structure 6 lift station.**				

Photographer:	**Skyler Schlick**	Date:	**3/14/2018**	Time:	**1029**
Witness:	**Kerri McCabe**			Photo #:	**18**
Description:	**MBBR (2A and 2B)**				

Water Division Photographic Evidence Sheet					
Location:	**Batesville WWTP**				
Photographer:	**Skyler Schlick**	Date:	**3/14/2018**	Time:	**1031**
Witness:	**Kerri McCabe**			Photo #:	**19**
Description:	**MBBR (1A) for BOD removal.**				

Photographer:	**Skyler Schlick**	Date:	**3/14/2018**	Time:	**1032**
Witness:	**Kerri McCabe**			Photo #:	**20**
Description:	**MBBR (1A) for NH3 removal and trough.**				

Water Division Photographic Evidence Sheet					
Location:	**Batesville WWTP**				
Photographer:	**Skyler Schlick**	Date:	**3/14/2018**	Time:	**21**
Witness:	**Kerri McCabe**			Photo #:	**1039**
Description:	**DAF structure.**				



Photographer:	**Skyler Schlick**	Date:	**3/14/2018**	Time:	**22**
Witness:	**Kerri McCabe**			Photo #:	**1037**
Description:	**DAF skimmings.**				

Water Division Photographic Evidence Sheet					
Location:	**Batesville WWTP**				
Photographer:	**Skyler Schlick**	Date:	**3/14/2018**	Time:	**23**
Witness:	**Kerri McCabe**			Photo #:	**1039**
Description:	**Effluent after DAF structure.**				

Photographer:	**Skyler Schlick**	Date:	**3/14/2018**	Time:	**24**
Witness:	**Kerri McCabe**			Photo #:	**1052**
Description:	**Chlorine contact chamber.**				

Water Division Photographic Evidence Sheet					
Location:	**Batesville WWTP**				
Photographer:	**Skyler Schlick**	Date:	**3/14/2018**	Time:	**25**
Witness:	**Kerri McCabe**			Photo #:	**1056**
Description:	**36” Parshall flume.**				

Photographer:	**Skyler Schlick**	Date:	**3/14/2018**	Time:	**26**
Witness:	**Kerri McCabe**			Photo #:	**118**
Description:	**Outfall 002.**				

Figure 1. General overview of the site with major components labeled (Google Earth: imagery date March 4, 2016).

Figure 2. General overview of the site after lagoon with major components labeled (Google Earth: imagery date March 4, 2016).

Table 1. June 2017 CBOD5 calculations for the City of Batesville.

Date	Concentration (mg/L)	7-day Average (mg/ L)	Daily Flow (MGD)	Mass (lbs/day)
5	2.81	2.76	6.36	149.05
6	2.80		6.63	154.82
7	2.67		7.61	169.46
12	4.04	3.15	8.46	285.05
13	2.92		8.30	202.13
14	2.48		8.33	172.29
19	4.52	3.72	3.80	143.25
20	1.96		3.68	60.15
21	4.67		3.88	151.12
26	3.90	3.76	4.96	161.33
27	3.38		4.97	140.10
28	4.00		5.02	167.47
Min	1.96	-	-	60.15
Max	4.67	-	-	285.05
Average	3.35	-	-	163.02

Table 2. November 2017 TSS calculations for the City of Batesville.

Date	Concentration (mg/L)	7-day Average (mg/ L)	Daily Flow (MGD)	Mass (lbs/day)
1	4.00		3.56	118.76
6	4.00	4.33	2.76	92.07
7	5.00		2.84	118.43
8	4.00		3.10	103.42
13	6.00	5.67	3.74	187.15
14	4.00		3.72	124.10
15	7.00		4.43	258.62
20	8.00	7.00	4.90	326.93
21	7.00		4.99	291.32
22	6.00		4.96	248.20
27	7.00	7.00	4.52	263.88
28	8.00		4.04	269.55
29	6.00		4.07	203.66
Min	4.00	-	-	92.07
Max	8.00	-	-	326.93
Average	5.85	-	-	200.47