

August 2, 2016

Kathryn Catlin, Wastewater Systems Manager City of Harrison P.O. Box 1715 Harrison, AR 72602

**RE:** City of Harrison WWTP Inspections (Boone Co)

AFIN: 05-00054 Permit No.: AR0034321

ARR00C373 5158-W

Dear Ms. Catlin:

On July 20, 2016, I performed a Compliance Evaluation Inspection, a Collection System Inspection, a No-Exposure Stormwater Inspection, and a Biosolids Land Application 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. Copies of the inspection reports are enclosed for your records.

Please refer to the "Summary of Findings" section 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 <a href="Water-Inspection-Report@adeq.state.ar.us">Water-Inspection-Report@adeq.state.ar.us</a>. 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 <a href="August 16">August 16</a>, <a href="2016">2016</a>.

If I can be of any assistance, please contact me at <a href="wallace@adeq.state.ar.us">wallace@adeq.state.ar.us</a> or (870) 424-3322 extension 3.

Sincerely,

Cody Wallace

District 2 Field Inspector

ody Maller

Water Division

	<u>VDEO</u>		WATER	<b>DIVISION I</b>	NS	PEC	TION	I RE	PORT
	ADLU	AF	IN: <b>05-00054</b>	PERMIT #: AR0034	4321		]	DATE: <b>7/20/2016</b>	
ARKANSAS			DUNTY: 05 Boo	ne	PDS	#: <b>092</b>	065		MEDIA: WN
Dep	partment of Environmental Quality	GF	S LAT: <b>36.2372</b>	209 LONG: -93.077	7106	LOCAT	ION: <b>G</b>	eneral	Area
	FACILITY INFORMAT	ION		IN	ISPE	CTION	INFORI	MATION	ı
Cit	y of Harrison WWTP			FACILITY TYPE:  1 - Municipal	109	9962 S	- State		
	08 Silver Valley Rd			3 - Satisfactory	•				Evaluation
На	rrison, AR			(-)	NTRY TIME 8:27		TIME: :38		FECTIVE DATE:
	RESPONSIBLE OFFIC	CIAL		772072010	0.21	'-	.50	10/1/2 PERMIT EX	2007 PIRATION DATE:
NAME: / TITLE							9/30/2		
	thryn Catlin / Wastewater Syster	ns i	<i>i</i> lanager	FAYETTEVILLE	FAYETTEVILLE SHALE RELATED: N				
City of Harrison				FAYETTEVILLE SHALE VIOLATIONS: N					
	NG ADDRESS:  D. Box 1715				INSPECTION PARTICIPANTS				
	STATE, ZIP:			NAME/TITLE/PHONE/FAX/EMAIL/ETC.:					
Ha	rrison AR 72602			Kathryn Catlin		002003	/Waste	water S	Systems
	IE & EXT: / FAX:				Manager/870-741-				
6/U	)-741-5527 /			5527/kathryn.ca	5527/kathryn.catlin@cityofharrison.com				
	hryn.catlin@cityofharrison.com			Mike Crow Lic# 007153/870-741-					
	NTACTED DURING INSPECTION:	Ye	S		5527/michael.crow@cityofharrison.com				
			AREA EV	ALUATIONS		, c.i., c.i.			
				satisfactory, N=Not Applicable			DAMA/A	TED	
S	PERMIT	S	FLOW MEASU		N		RMWA		\/I=\//
S	RECORDS/REPORTS	S	LABORATORY	Y ECEIVING WATER	9			ITO DIN	
S	OPERATION & MAINTENANCE SAMPLING	S		IDLING/DISPOSAL			TREAT		G PROGRAM
**	OTHER:	3	SLUDGE HAN	DLING/DISPOSAL	.   N	I PRE	IKEAI	MENI	
	OTTEN.		SIIMMADV	OF FINDINGS					
Ru	ffer for the lab's pH meter was ex	nire			ection	1 B 1 A	of the	nermi	t Expired
	ffers will need to be replaced.	שווק	a. IIII3 I3 a VIO	iation of Fart II, of	CCLIOI		. Or tile	Perilli	i. Expired
มน	nera win need to be repidedu.								

### **GENERAL COMMENTS**

On Wednesday, July 20, 2016 an inspection was conducted with the above-mentioned inspection participants. The inspection included a facility assessment and records review.

#### Facility assessment:

The treatment system for the city consists of: collection system→bar screens→grit removal chamber→primary clarifier→oxidation ditches→secondary clarifiers→UV disinfection→cascade aeration. Trickling filters and chlorination/dechlorination are no longer used in the treatment process (i.e., trickling filters are not mentioned as a treatment phase in the permit, but chlorination/dechlorination are). Crooked Creek is the receiving stream for effluent generated from the WWTP.

Aerobic digesters, a belt press, and polymers are utilized for sludge handling and dewatering. Class B biosolids are generated at the facility and are land applied on agricultural land under permit number 5158-W. Mr. Mike Crow estimated that the facility has been using the digesters for approximately four (4) years, which allows nearly a 42% reduction in sludge produced. Currently, around six (6) tons of biosolids are produced per week at the plant according to Mr. Crow.

Sample types include 24-hr composites (CBOD, TSS, NH3-N, TP, WET), grab samples (DO, FCB, TRC, pH), and totalized (flow). 410 mL per sample per hour are collected over a 24-hr period for composite samples. Flow is currently being recorded prior to UV disinfection. The permit states, "Samples taken in compliance with the monitoring requirements specified above shall be taken at the following sampling location: immediately following the dechlorination unit for all parameters except DO and immediately following the cascade for DO." As noted, the chlorination/dechlorination unit is no longer employed and UV disinfection is now installed. Please note to the permit engineer in the renewal process that flow measurements are recorded prior to UV disinfection rather than post disinfection.

#### **Records Review:**

The permittee samples/analyzes flow, CBOD, TSS, NH3-N, TP, DO, FCB, TRC, and pH. Biomonitoring (i.e., WET testing) is completed by a contract lab. November 2015-present DMRs were reviewed. No exceedances were registered for the period observed. In-house lab and contracted lab records (i.e., chain of custody (COC) forms, lab analyses sheets, and DMRs) were thorough and complete.

In general, the treatment plant, facility lab, and records were well-maintained and orderly. Furthermore, recent and historical monitoring results suggest quality effluent is discharged from the plant.

Lody Adall		
INSPECTOR'S SIGNATURE:	Cody Wallace	DATE: <b>7/25/2016</b>
Kervi	M's Cali	
SUPERVISOR'S SIGNATURE:	Kerri McCabe	DATE: <b>8/2/2016</b>

SECTION A: PERMIT VERIFICATION	
PERMIT SATISFACTORILY ADDRESSES OBSERVATIONS	⊠S □M □U □NA □NE
DETAILS: Permit is expired; permittee is in the renewal process.	
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: Permittee samples/analyzes flow, CBOD, TSS, NH3-N, TP, DO, FCB, TRC, and p	H; contract lab completes
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: Trickling filters and chlorination/dechlorination system no longer in use.	
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: One stationary generator for WWTP, one stationary generator for Lift Station, and one portable generator for other lift stations.	Main ☑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:	Øs □m □u □na □ne
6. ADEQUATE NUMBER OF QUALIFIED OPERATORS PROVIDED: One operator with Class IV, multiple with Class III and lower	. ☑S ☐M ☐U ☐NA ☐NE
7. SPARE PARTS AND SUPPLIES INVENTORY MAINTAINED: valves, fuses, etc.	⊠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: Overflow collection system only.	<u>ws of</u> ☑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: Replacing and cleaning line	
14. HAVE ANY HYDRAULIC OVERLOADS OCCURRED AT THE TREATMENT PLANT:	□y Øn □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: <u>Permittee samples/analyzes flow, CBOD, TSS, NH3-N, TP, DO, FCB, TRC, and p</u> WET testing.	H; contract lab completes
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:	MY ON ONA ONE
4. SAMPLING AND ANALYSES COMPLETED ON PARAMETERS SPECIFIED IN PERMIT:	☑Y □N □NA □NE
5. SAMPLING AND ANALYSES PERFORMED AT FREQUENCY SPECIFIED IN PERMIT:	MY ON ONA ONE
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 Øna □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: 18" Parsha	all 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:	☑Y □N □NA □NE
4. CALIBRATION FREQUENCY ADEQUATE: Calibrated December 15, 2015	☑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	1
PERMITTEE LABORATORY PROCEDURES MEET PERMIT REQUIREMENTS	ØS OM OU ONA ONE
DETAILS: <u>Permittee samples/analyzes flow, CBOD, TSS, NH3-N, TP, DO, FCB, TRC, and WET testing.</u>	pH; contract lab completes
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: Waypoint Analytical	
b. LAB ADDRESS: 2790 Whitten Rd, Memphis, TN 38133	
c. PARAMETERS PERFORMED: Biomonitoring, sludge analyses, soil analyses	
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:	□Y □N ☑NA □NE
8. BIOMONITORING PROCEDURES ADEQUATE:  a. PROPER ORGANISMS USED:  b. PROPER DILUTION SERIES FOLLOWED:  c. PROPER TEST METHODS AND DURATION:	Øy □n □na □ne Øy □n □na □ne Øy □n □na □ne Øy □n □na □ne □y □n Øna □ne

					0034, Permit #. A	KUU34321						
SECTION G: EFFLUENT/RECEIVING WATERS OBSERVATIONS												
BASED ON VISUAL OBSERVATIONS ONLY												
DETAILS: Observed at primary flow measuring device prior to UV disinfection and cascade aeration.  OUTFALL #: OIL SHEEN GREASE TURBIDITY VISIBLE FOAM FLOATING SOLIDS COLOR OTHER												
OUTFALL #:	OIL SHEEN	GREASE	TURBIDITY	VISIBLE FOAM	FLOATING SOLIDS	COLOR	OTHER					
001	NO	NO	NO	NO	NO	CLEAR	N/A					
SECTION H	I: SLUDGE DIS	POSAL										
	DISPOSAL ME		PEQUIREMENT	rs.		MS DM D	U DNA DNE					
					ed and polymers							
	ewatered biosc				ca ana polymers	arca added to r	<u>caacc</u>					
<u>'</u>	IANAGEMENT ADEQU					⊠s □m	□U □NA □NE					
2. SLUDGE R	ECORDS MAINTAINED	O AS REQUIRED BY 40	) CFR 503:			⊠s □m	□U □NA □NE					
3. FOR LAND	APPLIED SLUDGE, TY	PE OF LAND APPLIE	TO: (E.G., FOREST,	AGRICULTURAL, PUE	BLIC CONTACT SITE): Ag							
			<u>-</u>		<u></u>							
SECTION I:	SAMPLING IN:	SPECTION PRO	CEDURES									
	RESULTS WITH			S		ПЅ ПМ П	U ⊠NA □NE					
DETAILS:												
	OBTAINED THIS INSPI	ECTION:				ПΥ	□n Øna □ne					
2. TYPE OF S												
4. FLOW PRO	PORTIONED SAMPLE	S OBTAINED:				□Y	□N ØNA □NE					
5. SAMPLE O	BTAINED FROM FACIL	LITY'S SAMPLING DEV	/ICE:			□Y	□n Øna □ne					
6. SAMPLE R	EPRESENTATIVE OF	VOLUME AND NATUR	E OF DISCHARGE:			□Y	□n Øna □ne					
7. SAMPLE S	PLIT WITH PERMITTER	E:				□Y	□n Øna □ne					
8. CHAIN-OF-	CUSTODY PROCEDU	RES EMPLOYED:				□Y	□n Øna □ne					
9. SAMPLES	COLLECTED IN ACCO	RDANCE WITH PERM	IT:			□Y	□n Øna □ne					
SECTION J	: STORM WATE	ER POLLUTION	PREVENTION	PLAN								
STORM W	ATER MANAG	EMENT MEET	S PERMIT RE	QUIREMENTS	}	□S ☑M □	U □NA □NE					
DETAILS:	No-Exposure in	spected under	ARR00C373.									
1. SWPPP UP	PDATED AS NEEDED:	_ DATE OF LAST UP	DATE:			□Y	□n Øna □ne					
2. SITE MAP	INCLUDING ALL DISCH	HARGES AND SURFAC	CE WATERS:			□Y	□n Øna □ne					
3. POLLUTIO	N PREVENTION TEAM	IDENTIFIED:				□Y	□n Øna □ne					
4. POLLUTIO	N PREVENTION TEAM	PROPERLY TRAINED	):			□Y	□n Øna □ne					
5. LIST OF PO	OTENTIAL POLLUTANT	Γ SOURCES:				□Y	□n Øna □ne					
6. LIST OF PO	OTENTIAL SOURCES A	AND PAST SPILLS AND	D LEAKS:			□Y	□n ☑na □ne					
7. ALL NON-S	STORM WATER DISCH	ARGES ARE AUTHOR	IZED:			□Y	□n ☑na □ne					
8. LIST OF ST	RUCTURAL BMPS:					□Y	□n Øna □ne					
9. LIST OF NO	ON-STRUCTURAL BMF	PS:				□Y	□n Øna □ne					
10. BMPS PRO	PERLY OPERATED A	ND MAINTAINED:				□Y	□n Øna □ne					
11. INSPECTIO	ONS CONDUCTED AS I	REQUIRED:				□Y	□n Øna □ne					

## pН

Sample Dates: Yes Times: Yes Exact Location: Yes

Analysis Dates: Yes Times: Yes Analyst: Yes Method Numbers: Yes Are method numbers EPA approved: Yes

**Are grab samples being obtained?** Yes

**Holding Time:** Yes, analyzes immediately within 15 minutes after the time of sample collection.

pH meter: pH meter observed is adequate for analyses

- a. must have a potentiometer, electrode, and a temperature compensating device
- b. must be accurate and reproducible to 0.1 pH unit with a range of 0-14

How many buffers do you use for calibration of the pH meter? 2 buffers---4 pH and 7 pH

Do you date the buffer solutions? Yes

How often do you replace the buffer solutions? Daily

Do you maintain a logbook on the calibration and maintenance of the pH meter and is it available for review? Yes

Does the pH meter have a temperature compensator? Yes

Do you record the temperature? No

**Is duplicate analysis conducted?** Yes

Have you established control limits for duplicate analysis? Yes, based on standard methods for parameter monitored

**Do the duplicate analysis fall within the control limits?** Yes, permittee commented they have not had trouble with differences in duplicate analyses.

Do you have QA/QC charts for us to review? Yes, QA/QC completed yearly

FLOW CALCULATION SHEET										
Date: July 20, 2016 Time: 8:51										
Head in Inches: 9" Feet: 0.75'										
Type & Size of Primary Flow Measurement Device: 18" Parshall Flume										
Name & Mo	odel of Seconda	ary Flow Mea	surement	Device:	Honey	well DR4300				
Date of last	Calibration of	Secondary F	low Device	: Dec	ember 1	5, 2015				
Recorded F	Flow at Date &	Time Listed A	Above: 2.	50 MGD		(Facility Flow Meter)				
	Flow at Date &			2.491 MC						
(Flow is calcula	ted using flow charts	in: <u>ISCO Open C</u>	hannel Flow Me	asurement	Handbook-5	<sup>oth</sup> Edition)				
% Error =	Recorded Va	lue - Caldalculated Val	culated Value	ue X 1	100					
% Error =	2.50	-	2.491	X 1	100					
		2.491								
% Error =	0.009 2.491	X 100								
% Error =	0.0036	X 100								
% Error =	% Error = <b>0.36</b> %									
Comments: OK; measurement within plus or minus 10%.										

# **DMR Calculation Check**

Reporting Period:	From	2015	11	1	_ To _	2015	11	30
		Year	Month	Day		Year	Month	Day

	Loading Mass	Concentration  Monthly				
	Mo. Avg Ibs/day	Mo. Avg mg/l	7-day Avg mg/l			
Reported Value:	42.3	2.95	5.6			
Calculated Value:	42.3	2.95	5.6			
Permit Value:	217	10	15			

If calculated value does not equal reported value, explain:

<u>Values are the same. See Figure 2 for calculations.</u>

CBOD5

Parameter Checked:

# **DMR Calculation Check**

Reporting Period:	From	2016	04	1	_ To	2016	04	30
		Year	Month	Day		Year	Month	Day
Parameter Checked:		NH3-N	_					
		Loading				Concer		
		Mass				Mon	tnıy	
	Mo.	Avg Ibs/d	day	Mo. A	vg r	ng/l	7-day Avç	g mg/l
Reported Value:		1.0			0.07		0.1	4
Calculated Value:		1.0			0.07		0.1	4

1.8

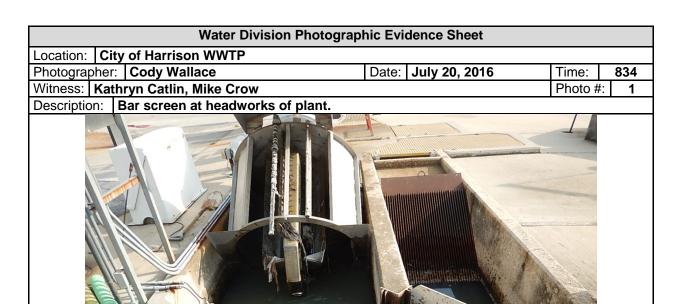
If calculated value does not equal reported value, explain:

<u>Values are the same. See Figure 3 for calculations.</u>

39

**Permit Value:** 

4.6



Photographer: Cody Wallace	Date: July 20, 2016	Time:	836
Witness: Kathryn Catlin, Mike Crow		Photo #:	2



# Water Division Photographic Evidence Sheet Location: City of Harrison WWTP Photographer: Cody Wallace Date: July 20, 2016 Time: 837 Witness: Kathryn Catlin, Mike Crow Photo #: 3 Description: Primary clarifier for treatment plant.



Photographer:	Cody Wallace	Date:	July 20, 2016	Time:	841
Witness: Kath	ryn Catlin, Mike Crow			Photo #	: 4





	Water Division Photographic Evidence Sheet									
Location: Ci	ty of Harrison WWTP									
Photographe	Cody Wallace	Date:	July 20, 2016	Time:	842					
Witness: Ka	Witness: Kathryn Catlin, Mike Crow Photo #: 5									
Description:	1 of 2 secondary clarifiers fol clarifiers.	llowing oxidation	ditches. Site has t	wo (2) secor	ndary					



Photographer: Cody Wallace	Date: July 20, 2016	Time:	844
Witness: Kathryn Catlin, Mike Crow			6

Description: 2 of 2 secondary clarifiers following oxidation ditches. Site has two (2) secondary clarifiers.





# Water Division Photographic Evidence Sheet Location: City of Harrison WWTP Photographer: Cody Wallace Date: July 20, 2016 Time: 847 Witness: Kathryn Catlin, Mike Crow Photo #: 9 Description: UV disinfection units.



Photographer:Cody WallaceDate:July 20, 2016Time:849Witness:Kathryn Catlin, Mike CrowPhoto #:10





# Water Division Photographic Evidence Sheet Location: City of Harrison WWTP Photographer: Cody Wallace Date: July 20, 2016 Time: 849 Witness: Kathryn Catlin, Mike Crow Photo #: 11

Description: Cascade aeration leading to Outfall 001.



Photographer:Cody WallaceDate:July 20, 2016Time:850Witness:Kathryn Catlin, Mike CrowPhoto #:12

Description: Continued cascade aeration leading to Outfall 001.



Inspection Report: City of Harrison WWTP, AFIN: 05-00054, Permit #: AR0034321

Water Division Photographic Evidence Sheet					
Location: City of Harrison WWTP					
Photographer: Cody Wallace	Date: July 20, 2016	Time:	857		
Witness: Kathryn Catlin, Mike Crow Photo #: 1					



Photographer: Cody Wallace	Date: <b>July 20, 2016</b>	Time:	900
Witness: Kathryn Catlin, Mike Crow		Photo #	: 14



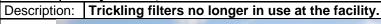


Inspection Report: City of Harrison WWTP, AFIN: 05-00054, Permit #: AR0034321

Water Division Photographic Evidence Sheet							
Location:	City	of Harrison WWTP					
Photograph	er:	Cody Wallace	Date	<b>:</b> :	July 20, 2016	Time:	902
Witness: Kathryn Catlin, Mike Crow Photo #:			#: <b>15</b>				
Description	: B	Belt press for dewatering sludge.	1				



Photogra	oher: Cod	y Wallac	Э		Date:	July 20, 2016	Time:	859
Witness:	Kathryn C	atlin, Mil	ce Crow				Photo #	: 16





# Water Division Photographic Evidence Sheet Location: City of Harrison WWTP Photographer: Cody Wallace Date: July 20, 2016 Time: 847 Witness: Kathryn Catlin, Mike Crow Photo #: 17

Description: Chlorination unit and chamber no longer in use at the facility.



	Time:	924
Witness: Kathryn Catlin, Mike Crow	Photo #	<b>#</b> : <b>18</b>

Description: Facility flow meter.

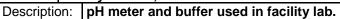


Inspection Report: City of Harrison WWTP, AFIN: 05-00054, Permit #: AR0034321

Water Division Photographic Evidence Sheet					
Location: City of Harrison WWTP					
Photographer: Cody Wallace Date: July 20, 2016 Time: 926					926
Witness: Kathryn Catlin, Mike Crow Photo #: 19					
Description: Meter was last calibrated on December 15, 2015.					



Photographer:Cody WallaceDate:July 20, 2016Time:930Witness:Kathryn Catlin, Mike CrowPhoto #:20



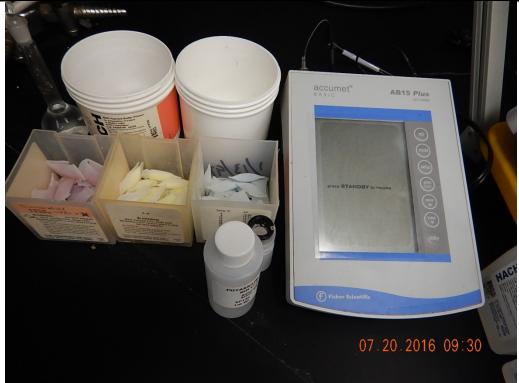


Figure 1. Aerial view of City of Harrison WWTP and associated components (Google Earth: imagery date April 24, 2014). Note trickling filters and chlorination unit/chamber are no longer utilized in the treatment process.



Figure 2. November 2015 Outfall 001 CBOD calculations.

November 2015 Outfall 001 CBOD calculations						
Date	Concentration	7-day Average	Daily Flow (MGD)	Mass (lbs/day)		
4	4.575	4.575	1.267	48.3		
12	5.6	5.6	1.553	72.5		
18	1.275	1.275	4.041	43.0		
24	0.33	0.33	1.891	5.2		
MAX	5.6		MAX	72.5		
MIN	0.33		MIN	5.2		
MEAN	2.95		MEAN	42.3		

Figure 3. April 2016 Outfall 001 NH3-N calculations.

April 2016 Outfall 001 NH3-N calculations							
Date	Concentration	7-day Average	Daily Flow (MGD)	Mass (lbs/day)			
6	0.07	0.07	1.646	1.0			
12	0.045	0.045	1.737	0.7			
18	0.025	0.025	1.742	0.4			
25	0.14	0.14	1.612	1.9			
MAX	0.14		MAX	1.9			
MIN	0.03		MIN	0.4			
MEAN	0.07		MEAN	1.0			

From: <u>Kathryn Catlin</u>

To: <u>Water-Inspection-Report</u>

Subject: RE: Response to 2016 Inspection Report City of Harrison AR0034321, ARR00C373, 5158-W

Date: Tuesday, August 02, 2016 3:10:29 PM
Attachments: 2016 Response to ADEQ Inspection.pdf

Attached please find the <u>revised</u> response to the Inspections report dated August 2, 2016 for the City of Harrison. If you have any questions, or require any additional information please feel free to contact me.

### Kathryn Catlin

From: Kathryn Catlin [mailto:kathryn.catlin@cityofharrison.com]

**Sent:** Tuesday, August 02, 2016 2:51 PM **To:** 'Water-Inspection-Report@adeq.state.ar.us'

Subject: Response to 2016 Inspection Report City of Harrison AR0034321, ARR00C373, 5158-W

Attached please find the response to the Inspections report dated August 2, 2016 for the City of Harrison WWTP. If you have any questions, or require any additional information please feel free to contact me.

Kathryn Catlin

Wastewater Systems Manager

PO Box 1715

Harrison, Arkansas 72601 Office: 870.741.5527 Fax: 870.741.0318

kathryn.catlin@cityofharrison.com



# Department of Public Works

8/2/2016

Cody Wallace
District 2 Field Inspector
ADEQ – Water Division
5301 Northshore Drive
North Little Rock, AR 72118-5317

Wastewater Department
Kathryn Catlin
Wastewater Systems Manager
1508 Silver Valley Road
Harrison, Arkansas 72601
Office: 870.741.5527
Fax: 870.741.0318
www.cityofharrison.com

kathryn.catlin@cityofharrison.com

RE: City of Harrison WWTP Inspections (Boone Co)

AFIN: 05-00054 Permit No.: AR0034321

ARR00C373 5158-W

Dear M. Wallace:

In response to your reports on the Compliance Evaluation Inspection, Collections System Inspection, and No-Exposure Stromwater Inspection conducted on July 20, 2016; the following corrective actions have been taken:

**AR0034321** – New pH buffers were ordered July 20, 2016. Until the new buffers arrive, the laboratory used non-expired buffers borrowed from the City's Pretreatment Coordinator. The laboratory technician is now writing the expiration date on all chemical bottles and containers.

**AR0034321 Collection System** – Emergency contact signs were posted at all of the lift stations on Thursday August 29, 2016 (see Attachment A for examples). Accumulated solids and grease were removed from the Meyers Lift Station and the Forest Heights Lift Station on Friday, July 22, 2016.

**ARROOC37** – All items listed in the Summary of Findings have been addressed (see attached pictures in Attachment B). Fluid containers and waste materials (e.g., piles of scrap metal) have been removed. Spills have been cleaned up and/or sealed.

**5158-W** – When the biosolids sample was sent to the laboratory in October 2015 the second page of the Chain of Custody was not documented by the receiving personnel. All missing parameters were on the second page of the Chain of Custody. A biosolids sample was collected on July 29, 2016 and sent to Waypoint Analytical for analysis of Molybdenum, Selenium, Zinc, Polychlorinated Biphenyls (PCBs), Magnesium, Sodium, Calcium, and Sodium Absorption Ration (SAR). Once the City receives the results we will revise our 2015 Land Application Report and Biosolids DMRs to reflect the new data.

If you have any questions or require any additional information, please feel free to contact me at 870-741-5527 or Kathryn.catlin@cityofharrison.com.

Sincerely,

Kathryn Catlin

Wastewater Systems Manager

PO Box 1715 Harrison, AR 72602 Phone: (870) 741-3434 Fax: (870) 741-0318

### **ATTACHMENT A**





# **ATTACHMENT B**



Photo #1 Barrels & buckets unsealed and residuals from spills exposed to stormwater – **AFTER** Barrels & buckets remove, soil removed, & gravel added.



Photo #2 Unsealed barrels and spill/leak constituents exposed to stormwater – **AFTER** Asphalt sealent used to seal oil stains.



Photo #3 Unsealed/deteriorating bucket and barrel exposed to stormwater – **AFTER**Barrel & bucket removed, there were no signs of leakage on soil.



Photo #4 Scrap waste on ground exposed to stormwater – **AFTER** Scrap metal & bucket removed.

From: <u>Kathryn Catlin</u>

To: Wallace, Cody; Water-Inspection-Report

Subject: RE: Response to 2016 Inspection Report City of Harrison AR0034321, ARR00C373, 5158-W

Date: Wednesday, August 03, 2016 7:27:11 AM

Attachments: image004.png

2016 Response to Inspections lift stations.pdf

### Cody,

Per your request, attached find pictures of Meyers Lift Station and Forest Height Lift Station after they were cleaned out. If you have any questions or require any additional information please feel free to contact me.

Kathryn Catlin

Wastewater Systems Manager

Harrison

PO Box 1715

Harrison, Arkansas 72601 Office: 870.741.5527 Fax: 870.741.0318

kathryn.catlin@cityofharrison.com

**From:** Wallace, Cody [mailto:wallace@adeq.state.ar.us]

Sent: Tuesday, August 02, 2016 3:17 PM

**To:** Kathryn Catlin

Subject: RE: Response to 2016 Inspection Report City of Harrison AR0034321, ARR00C373, 5158-W

### Kathryn,

Can you please provide photos of the wet wells that were cleaned out? Once those are received that will take care of everything.

Thanks,

**Cody Wallace** 

Inspector---Water Division District 2 Arkansas Department of Environmental Quality Office---(870) 424-3322 ext. 3 Cell---(501) 837-2074 From: McCabe, Kerri

Sent: Tuesday, August 02, 2016 3:03 PM

**To:** Kathryn Catlin **Cc:** Wallace, Cody

Subject: RE: Response to 2016 Inspection Report City of Harrison AR0034321, ARR00C373, 5158-W

Ms. Catlin,

You have an August 29, 2016 date in the response. I assume this is July 29, 2016. This email confirms we have received your responses to Inspector Wallace's inspections, and he will determine adequacy of the responses. Thank you.

### Kerri McCabe

Inspector Supervisor

ADEQ – Water Division

Field Services – Inspection Branch

Office – (501) 682-0642 Work Cell – (501) 352-5641 Fax – (501) 682-0880 5301 Northshore Drive North Little Rock, AR 72118-5317



From: Kathryn Catlin [mailto:kathryn.catlin@cityofharrison.com]

Sent: Tuesday, August 02, 2016 2:51 PM

**To:** Water-Inspection-Report

Subject: Response to 2016 Inspection Report City of Harrison AR0034321, ARR00C373, 5158-W

Attached please find the response to the Inspections report dated August 2, 2016 for the City of Harrison WWTP. If you have any questions, or require any additional information please feel free to contact me.

Kathryn Catlin

Wastewater Systems Manager

Harrison

PO Box 1715 Harrison, Arkansas 72601 Office: 870.741.5527 Fax: 870.741.0318

kathryn.catlin@cityofharrison.com



Photo #4 Wet well of Meyers Lift Station; solids/grease high. AFTER



Photo # 12 Wet well of Forest Heights Lift Station; solids/grease moderate. **AFTER** 



August 8, 2016

Kathryn Catlin, Wastewater Systems Manager City of Harrison P.O. Box 1715 Harrison, AR 72602

**RE:** Response to City of Harrison WWTP Inspections (Boone Co)

AFIN: 05-00054 Permit No.: AR0034321

ARR00C373 5158-W

Dear Ms. Catlin:

I have reviewed the response pertaining to my July 20, 2016 inspections of the abovereferenced facility. The information provided sufficiently addresses the violations referenced in my inspection report. At this time, the Department has no further comment concerning this particular inspection. 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 (870) 424-3322 ext. 3 or you may e-mail me at <a href="mailto:wallace@adeq.state.ar.us">wallace@adeq.state.ar.us</a>.

Sincerely,

Cody Wallace

District 2 Field Inspector

Cody Adallac

Water Division