

April 5, 2019

David Duch, Mayor City of Hazen P.O. Box 564 Hazen, AR 72064

RE: City of Hazen WWTP Inspection AFIN: 59-00029 Permit No.: AR0022411

Dear Mayor Duch:

On March 6 and 27, 2019, I performed a Compliance Sampling Inspection and a Collection System Evaluation 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 <u>Bolenbaugh@adeq.state.ar.us</u> or 501-682-0659.

Sincerely,

an Relation

Jason Bolenbaugh Compliance Branch Manager Office of Water Quality

Inspection Report: City of Hazen WWTP, AFIN: 59-00029, Permit #: AR0022411

					,	,	-				
		NEO		WATER	DIVISIC)N IN	NSP	ECTIC)N R	EPORT	
			AF	FIN: 59-00029 P	ERMIT #: A	R0022	411		DATE	E: 3/6/2019	
A	RK	ANSAS	CC	DUNTY: 59 Prairie	e		PDS #	#: 107298		MEDIA: WN	
Dep		of Environmental Quality	GF	PS LAT: 34.78888	LONG: -91	1.56194	LOC	CATION: 0	utfall	utfall	
		FACILITY INFORM	ATION			INS		TION INFO	RMAT	ION	
				FACILITY TYPE: 1 - Munici	-		1 S - State				
1789 Utility St.					FACILITY EVALUAT 4 - Satisfa	octory		Co	ECTION TYPE mplian	ce Sampling	
Hazen					DATE(S): 3/6/2019		RY TIME:	EXIT TIME: 10:50		PERMIT EFFECTIVE DATE:	
		RESPONSIBLE OF	FICIAL	_	3/27/2019		3:30	09:20		8/1/2014 PERMIT EXPIRATION DATE: 7/31/2019	
		L / Mayor			0/21/2010			VVV			
COM	PANY:	h / Mayor			FAYETTE	VILLE	SHAL	E RELATE	D: N		
	y of Haz	zen			FAYETTE					J	
	D. Box 5	64				INS	PECT	ION PAR			
	STATE, ZIP:	70064			NAME/TITLE/PHON			tor ADEC)		
	ZEN AR				Blain Sanders, Inspector, ADEQ Mason Martin, Class II Operator, City of Hazen						
	0-255-45	521 /			Drew Wat						
EMAI ha		@cityofhazen.org									
CC	ONTACT	ED DURING INSPECTIO) N: No	1							
					LUATIONS						
S	PERM		S=Satisfac	ctory, M=Marginal, U=Unsat	ntisfactory, N=Not Applicable/Evaluated) REMENT N STORMWATER						
S		RDS/REPORTS	N	LABORATORY			S				
S		ATION & MAINTENANCI		EFFLUENT/REG			S			RING PROGRAM	
S	SAMPI		Ν	SLUDGE HAND	LING/DISPOSAL		Ν	PRETRE	ATMEN	ATMENT	
**	OTHE	₹:		SUMMARY C		· C					
Th	e follow	ring results were obtain	ed fro				on Ma	rch 27, 20	19. All	parameters	
		n the permit effluent lin			-					purumotere	
-				• • • • • • • • • •	,			•••••			
		Mass (lbs/day)	Conce	entration (mg/L)	MGD						
F	low				0.377						
С	BOD5	4.06		1.29							
T	SS	27.51		8.75							
Ν	H3-N	1.45		0.46							
F	СВ		66	0 (col/100ml)							
D	0			7.95 (mg/L)							
р	Н			7.02 s.u.							

No violations were noted during the inspection. No further actions are required by the City of Hazen at this time. The Department appreciates the City of Hazen's cooperation during the site visits.

GENERAL COMMENTS

The type of treatment at the plant consist of sedimentation (primary clarification), extended aeration activated sludge, secondary clarification, and UV disinfection.

The design flow for the plant is 0.275 MGD. During a review of Discharge Monitoring Reports (DMRs) from January 1, 2016 through December 31, 2018, the city reported Daily Maximum Flows that exceeded the design flow for 32 of the 36 reporting months. Exceedances ranged from 0.278 MGD to 1.445 MGD. The City does have some problems with Inflow/Infiltration during rain events but the additional amount of water that enters the system is seen at the treatment plant. The additional flows have not resulted in increased Sanitary Sewer Overflows.

A review of Discharge Monitoring Reports (DMRs) from January 1, 2016 through December 31, 2018 revealed the city reported 6 effluent violations (4 TSS, 2 FCB). However, the Enforcement Branch reported the city has not submitted the necessary Non-Compliance Reports (NCR) as required under Part III, Section D7 of the permit. Please ensure the necessary NCR are submitted whenever a violation of the permits effluent limitations occurs.

The last Compliance Evaluation Inspection of the facility was conducted on January 31, 2012. The inspection noted an unpermitted outfall at the sludge wasting lagoon; the clarifier weirs needed cleaned; the city only had a Class I operator; and, regular calibration checks of the plants flow meter were not being conducted. The city submitted all corrective actions and the case were closed on March 23, 2012. The City currently has three Class II operators. The operations and maintenance of the plant were very good. We would like to thank Mr. Martin for his time and effort in maintaining the treatment plant.

INSPECTOR'S SIGNATURE:	←Click text to left to add signature	-Inspector Name	DATE:
	an Relation		
SUPERVISOR'S SIGNATURE		lason Bolenbaugh	DATE: 4/4/2019

Inspection Report: City of Hazen WWTP, AFIN: 59-00029, Permit #: AR0022411

Inspection Report: City of Hazen WWTP, AFIN: 59-00029, Permit #: AF SECTION A: PERMIT VERIFICATION	
PERMIT SATISFACTORILY ADDRESSES OBSERVATIONS	
DETAILS:	
1. CORRECT NAME AND MAILING ADDRESS OF PERMITTEE:	
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:	
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:	
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:	
5. EFFLUENT LOADINGS CALCULATED USING DAILY EFFLUENT FLOW AND DAILY ANALYTICAL DATA:	Øy 🗆n 🗆na 🗇ne
SECTION C: OPERATIONS AND MAINTENANCE	
TREATMENT FACILITY PROPERLY OPERATED AND MAINTAINED	
1. TREATMENT UNITS PROPERLY OPERATED:	
 TREATMENT UNITS PROPERLY MAINTAINED: STANDBY POWER OR OTHER EQUIVALENT PROVIDED: The plant does not have standby power. The city has one portable 	
generator. The plant is visited seven days a week by staff.	
 ADEQUATE ALARM SYSTEM FOR POWER OR EQUIPMENT FAILURES AVAILABLE: No alarms are at the plant. The plant is visited seven days a week and no failures have been reported. 	
5. ALL NEEDED TREATMENT UNITS IN SERVICE:	
 ADEQUATE NUMBER OF QUALIFIED OPERATORS PROVIDED: Phillip Foot, Chad Swaim, and Mason Martin all possess CI wastewater operator's licenses. 	^{Iass II} Øs ⊡m ⊡u ⊡na ⊡ne
7. SPARE PARTS AND SUPPLIES INVENTORY MAINTAINED:	Øs 🗆m 🗇u 🗇na 🗇ne
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:	
 HAVE BYPASSES/OVERFLOWS OCCURRED AT THE PLANT OR IN THE COLLECTION SYSTEM IN THE LAST YEAR: IF SO, HAS THE REGULATORY AGENCY BEEN NOTIFIED: 	Dy Dn Øna Dne
 PROCEDURES FOR EMERGENCY TREATMENT CONTROL ESTABLISHED: HAVE BYPASSES/OVERFLOWS OCCURRED AT THE PLANT OR IN THE COLLECTION SYSTEM IN THE LAST YEAR: IF SO, HAS THE REGULATORY AGENCY BEEN NOTIFIED: HAS CORRECTIVE ACTION BEEN TAKEN TO PREVENT ADDITIONAL BYPASSES/OVERFLOWS: HAVE ANY HYDRAULIC OVERLOADS OCCURRED AT THE TREATMENT PLANT: 	Y Øn Ona One Y On Øna One Y On Øna One Y Øn Ona One

SECTION D: SAMPLING	
PERMITTEE SAMPLING MEETS PERMIT REQUIREMENTS	
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:	
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 REPO	DRTED ON THE DMR:
SECTION E: FLOW MEASUREMENT	
PERMITTEE FLOW MEASUREMENT MEETS PERMIT REQU	JIREMENTS ØS DM DU DNA DNE
DETAILS: Permit requires instantaneous flow measurement	
1. PRIMARY FLOW MEASUREMENT DEVICE PROPERLY INSTALLED AND MAINTAINED:	TYPE OF DEVICE: 6" Parshall Flume IV IN INA INE
2. FLOW MEASURED AT EACH OUTFALL AS REQUIRED:	
 SECONDARY INSTRUMENTS (TOTALIZERS, RECORDERS, ETC.) PROPERLY OPERAT SLT 32 Level & Flow Monitor 	ED AND MAINTAINED: Greyline Instruments,
4. CALIBRATION FREQUENCY ADEQUATE: Last calibrated by EPIC on October 5, 2018.	
5. RECORDS MAINTAINED OF CALIBRATION PROCEDURES:	
6. CALIBRATION CHECKS DONE TO ASSURE CONTINUED COMPLIANCE:	
7. FLOW ENTERING DEVICE WELL DISTRIBUTED ACROSS THE CHANNEL AND FREE OF	
8. FLOW MEASUREMENT EQUIPMENT ADEQUATE TO HANDLE EXPECTED RANGE OF F	LOW RATES: DY DN DNA DNE
9. HEAD MEASURED AT PROPER LOCATION:	
SECTION F: LABORATORY	
PERMITTEE LABORATORY PROCEDURES MEET PERMIT	REQUIREMENTS ØS DM DU DNA DNE
DETAILS:	
1. EPA APPROVED ANALYTICAL PROCEDURES USED (40 CFR 136.3 FOR LIQUIDS, 503.6	B(B) FOR SLUDGES) : $\square Y \square N \square NA \square NE$
2. IF ALTERNATIVE ANALYTICAL PROCEDURES ARE USED, PROPER APPROVAL HAS B	EEN OBTAINED:
3. SATISFACTORY CALIBRATION AND MAINTENANCE OF INSTRUMENTS AND EQUIPME	
4. QUALITY CONTROL PROCEDURES ADEQUATE:	
5. DUPLICATE SAMPLES ARE ANALYZED ≥10% OF THE TIME:	
6. SPIKED SAMPLES ARE ANALYZED >10% OF THE TIME:	
7. COMMERCIAL LABORATORY USED:	
a. LAB NAME: McClelland Consulting Engineers, Inc.	
b. LAB ADDRESS:	
c. PARAMETERS PERFORMED: NH3-N, CBOD, DO, FCB, pH, Temp, TSS	
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:	Dy Dn Øna Dne

SECTION G: EFFLUENT/RECEIVING WATERS OBSERVATIONS									
BASED ON	VISUAL OBS		ØS OM OU ONA ONE						
DETAILS:									
OUTFALL #:	OIL SHEEN	GREASE	TURBIDITY	VISIBLE FOAM	FLOATING SOLIDS	COLOR	OTHER		
001	None	None	None	None	None	CLEAR			
						-			
SECTION H	SECTION H: SLUDGE DISPOSAL								
SLUDGE D	DISPOSAL MEI	ETS PERMIT F	REQUIREMEN	ГS			IU ⊡NA ØNE		
DETAILS:	There were no a	apparent issues	with sludge.						
1. SLUDGE M	ANAGEMENT ADEQU	ATE TO MAINTAIN EF	FLUENT QUALITY:			⊡s ⊡m			
2. SLUDGE R	ECORDS MAINTAINED	DAS REQUIRED BY 40) CFR 503:			⊡s ⊡m			
3. FOR LAND	APPLIED SLUDGE, T	PE OF LAND APPLIE	D TO: (E.G., FOREST,	AGRICULTURAL, PUE	BLIC CONTACT SITE):				
SECTION I:	SAMPLING IN	SPECTION PRO	CEDURES						
SAMPLE F	ESULTS WITH	HIN PERMIT R	EQUIREMENT	S		ØS 🗆 M 🗆	IU □NA □NE		
DETAILS:									
1. SAMPLES	OBTAINED THIS INSP	ECTION:				₽Y	🗆 n 🗆 na 🗆 ne		
2. TYPE OF S	AMPLE: 🗹 GRAB:		IETHOD: FREQUE	NCY: Once					
3. SAMPLES	PRESERVED: See atta	ched Chain-of-Custor	iy.			₽Y			
4. FLOW PRC	PORTIONED SAMPLE	S OBTAINED:				ΠY	⊠n ⊡na ⊡ne		
5. SAMPLE O	BTAINED FROM FACI	LITY'S SAMPLING DE	/ICE:			ΠY	🗹 n 🗆 na 🗆 ne		
6. SAMPLE R	EPRESENTATIVE OF	VOLUME AND NATUR	E OF DISCHARGE:			₽Y			
7. SAMPLE S	PLIT WITH PERMITTE	E:				ΠY	🗹 n 🗆 na 🗆 ne		
		RES EMPLOYED: Inclu							
9. SAMPLES collected fe		RDANCE WITH PERM	IT: Per requires samp	ling twice per month,	but only one sample wa	as □Y	⊠n ⊡na ⊡ne		
SECTION J	: STORM WAT	ER POLLUTION	PREVENTION	PLAN					
STORM W	ATER MANAG	EMENT MEET	S PERMIT RE	QUIREMENTS			U ØNA ⊡NE		
DETAILS:									
1. SWPPP UF	DATED AS NEEDED:	DATE OF LAST UP	DATE:			ΠY	□n Øna □ne		
2. SITE MAP I	NCLUDING ALL DISCH	HARGES AND SURFAC	CE WATERS:			ΠY	□n Øna □ne		
3. POLLUTIO	N PREVENTION TEAM	IDENTIFIED:				ΠY	□n Øna □ne		
4. POLLUTIO	4. POLLUTION PREVENTION TEAM PROPERLY TRAINED:								
5. LIST OF PC	5. LIST OF POTENTIAL POLLUTANT SOURCES:								
6. LIST OF PC	DTENTIAL SOURCES	AND PAST SPILLS AND	D LEAKS:				□n Øna □ne		
7. ALL NON-S	TORM WATER DISCH	ARGES ARE AUTHOR	IZED:			ΠY			
8. LIST OF ST	RUCTURAL BMPS:					ΠY			
9. LIST OF NO	ON-STRUCTURAL BMF	PS:				ΠY	□n Øna □ne		
10. BMPS PRC	PERLY OPERATED A	ND MAINTAINED:				ΔY	□n Øna □ne		
11. INSPECTIO	NS CONDUCTED AS	REQUIRED:					□n Øna □ne		

Inspection Report: City of Hazen WWTP, AFIN: 59-00029, Permit #: AR0022411

FLOW CALCULATION SHEET

Date: 3/2	7/2019	Time: ~()8:40							
	112013		0.40							
Head in Inc	hes: 5 "	Feet	: 0.42		= 0.33	80 N	/IGD			
Type & Size	e of Primary I	-low Measure	ment D	evice	: 6" Par	shal	l Flum	ie		
								• •		
Name & Mo	odel of Secor	idary Flow Me	asurem	ient D	evice:		-		ments S <u>[,] Monito</u>	
	<u> </u>					10.0.1				
Date of last	Calibration of	of Secondary	Flow De	evice:	10/5	/201	8			
Beeerded E	low at Data	& Time Listed	Abovo	0.3	10			(<u> </u>		
Recolded F	now at Date		Above.	0.3	10			(Facilit	ty Flow Me	ter)
Calculated	Flow at Date	& Time Lister	d Above	: 0 .	.3380					
(Flow is calculat	ed using flow cha	rts in: ISCO Open	Channel F	ow Mea	asurement	Hand	book-5 th	Edition)		
	T									
% Error =	Recorded \		lculated	l Valu	<u>e</u> χ⁄	100				
		Calculated Va	lue							
	0.318		0 338	20						
% Error =	0.310	0.3380	0.3380			─ X 100 └───				
		0.3300								
	-0.02									
% Error =	0.3380	X 100								
	010000									
% Error =	-0.059	X 100								
% Error =	-5.9	%								
Comments:	Comments Within the ±10% as outlined in Part III, Section C.2 of the permit.									
Comments.				, 0000	0.1 0.2 0					

DMR Calculation Check

Reporting Period:	From	<u> 18 </u> Year	<u> </u>	1 Day	_ To _	18 Year	<u> </u>	<u>31</u> Day
Parameter Checked:		TSS	-					
		Loading Mass				Concer Mon	ntration thly	
	Mo.	Avg Ibs/d	lay	Mo. A	Mo. Avg mg/l		7-day Avg	ı mg/l
Reported Value:		7.3			5.5		7	
Calculated Value:		7.34			5.5		7	
Permit Value:		45.9			20		30	

If calculated value does not equal reported value, explain: No errors found.

DMR Calculation Check

Reporting Period:	From	<u> 18 </u> Year	5 Month	1 Day	_ To	18 Year	5 Month	<u>31</u> Day
Parameter Checked:		NH3-N	-					
		Loading Mass					ntration hthly	
	Mo.	Avg Ibs/c	lay	Mo. A	Mo. Avg mg/l		7-day Avg mg/	
Reported Value:		1.5			0.5		0.5	
Calculated Value:		1.47		0.46			0.46	
Permit Value:		11.5			5		7.	5

If calculated value does not equal reported value, explain: No errors found.







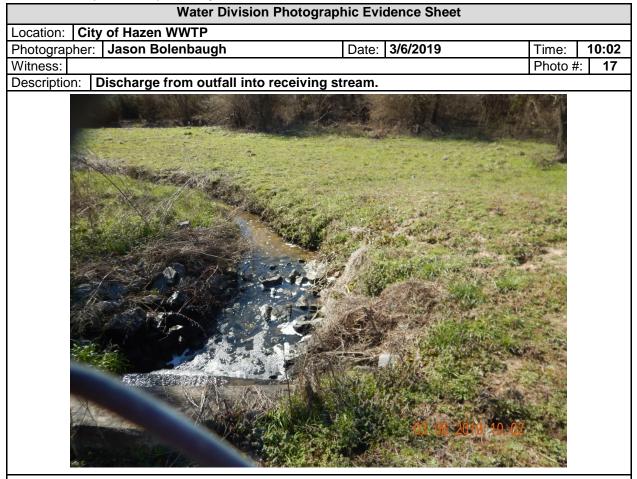








		ographic Evidence Sheet	
	of Hazen WWTP		
Photographer: Witness:	Jason Bolenbaugh	Date: 3/6/2019	Time: 09:42 Photo #: 15
	low records being maintained fo	r the month of March.	
	It 743980510 Day Flow 1 744102550 2 74446640 3 744740780 4 745152170 5 745346410 6 7 8 9	<u>CIPTAILL FIOW</u> - 153,160 <u>Gallons Treated</u> <u>Rainfall</u> - 122,040 - 364,090 - 364,090 - 364,090 - 204,140 - 411,390 - 194,240 - 194,240 03.06.2019 09:42	2
Photographer:	10 Jason Bolenbaugh	Date: 3/6/2019	Time: 10:12
Witness:	bacon bolonbadgi		Photo #: 16
Description: 6	-inch Parshall Flume.		



Analytical Results

Report Date: April 4, 2019

Lab Contact Info:

ADEQ Laboratory and Monitoring Services
 \$301 Northshore Drive, North Little Rock, AR 72118
 www.adeq.state.ar.us
 Collector: Bolenbaugh, Jason
 Project Description:
 City of Hazen WWTP CSI 2019 0999
 Date and Time Received:
 03/27/2019 12:05
 Work Order Number:
 WO-190327-06

Sample Receipt Conditions:

Condition	Response	Comment
Is the COC completed properly?	Yes	
Temperature on Receipt	1.8°C	
Received on Ice	Yes	
Containers are Correct	Yes	
Custody Seals	Yes	
COC/Labels Agree	Yes	



Analytical Results

Laboratory Name: Contact Name: Lab Address:	ADEQ Laboratory ar Bolenbaugh, Jason 5301 Northshore Dri	Р	Email: Bolenbaugh@adeq.state.ar.us Phone: 501-682-0659 Fax:						
Collector: Bolenba	ugh, Jason	Site: Hazen - Outfall (001	Work	Work Order Number: WO-190327-06				
Sample Classificat Matrix: Water Sample Barcode:	-				ect: ected: le Number:	CSI 3/27/2019 8:55 2019-0999			
5 Day Carbonaced Demand	ous Biochemical Oxy	vgen Metho	d: SM 5210 E	8, 2011		Analyst: RG			
Aliquot #: 2019-09	999-1-01	Batch	Number: AB	-190327-0)19				
Analyte(s)		Result	Units	Q	Reporting Limit	Dilution	Analysis Date and Time		
Carbonaceous Bio Demand	logical Oxygen	1.29	mg/L		0.20	1	3/27/2019 13:39		
Total Suspended	Solids	Metho	Method: SM 2540 D, 2011				Analyst: KH		
Aliquot #: 2019-09	999-1-02	Batch	Number: AB	-190327-0	013				
Analyte(s)		Result	Units	Q	Reporting Limit	Dilution	Analysis Date and Time		
Total Suspended S	Solids	8.75	mg/L		2.00	1	3/27/2019 13:00		
Dissolved Oxyger	ı	Metho	Method: SM 4500-O G, 20			011 Analyst: JB			
Aliquot #: 2019-09	999-1-03	Batch	Batch Number: AB-190401-012						
Analyte(s)		Result	Units	Q	Reporting Limit	Dilution	Analysis Date and Time		
Dissolved Oxygen		7.95	mg/L			1	3/27/2019 9:00		
рН		Metho	d: SM 4500-H	l+ B, 200	0		Analyst: JB		
Aliquot #: 2019-09	999-1-04	Batch	Number: AB	-190401-0	013				
Analyte(s)		Result	Units	Q	Reporting Limit	Dilution	Analysis Date and Time		
рН		7.02	units			1	3/27/2019 9:00		
Water Temperatu	re	Metho	d: SM 2550 E	3, 2000			Analyst: JB		
Aliquot #: 2019-09	999-1-05	Batch	Number: AB	-190401-0)14				
Analyte(s) Water Temperature	e	Result 14.0	Units °C	Q	Reporting Limit	Dilution 1	Analysis Date and Time 3/27/2019 9:00		
						_	/ /		

Analytical Results

Collector: Bolenbaugh, Jason	Site: Hazen - Outfall 001 Work (Order Number: WO-190327-06		
Sample Classification: CSI Matrix: Water Sample Barcode:			Project: Collected: Sample Number:		CSI 3/27/2019 8:55 2019-0999	
Ammonia Dist	Metho	d: SM 4500-NI	13 H, 20	11	Analyst: JR	
Aliquot #: 2019-0999-2-01	Batch	Batch Number: AB-190403-032				
Analyte(s)	Result	Units	Q	Reporting Limit	Dilution	Analysis Date and Time
Ammonia as Nitrogen	0.46	mg/L		0.03	1	3/28/2019 15:24
Fecal Coliform	Method: SM 9222 D, 2006				Analyst: KH	
Aliquot #: 2019-0999-3-01	Batch Number: AB-190327-040					
Analyte(s)	Result	Units	Q	Reporting Limit	Dilution	Analysis Date and Time
Fecal Coliform by MF	~660	cfu/100ml		10.00	10	3/27/2019 13:18

QUALITY CONTROL REPORT

Project: City of Hazen WWTP CSI 2019 0999

Date and Time Received: 03/27/2019 12:05

Analyte	Units	Method Blank	Reporting Limit	% Recovery LCS/LCSD	Limits	% RPD	Lab Dup Result	Limits	% RPD	% Recovery MS/MSD	Limits	% RPD	Limits	Qualifiers
Total Suspended So	olids	SM 2540	D, 2011				Batch #:	AB-190	0327-013	P	arent Sample	:		
Total Suspended Solids	mg/L	<2.00	2.00	96.0 /	90-110			-		/	-		-	
5 Day Carbonaceou Biochemical Oxyge Demand		SM 5210	B, 2011				Batch #:	AB-190)327-019	P	arent Sample	:		
CBOD	mg/L	<0.20	0.20	105.1 /	85-115			-		/	-		-	1
Fecal Coliform		SM 9222	D, 2006				Batch #:	AB-190	327-040	P	arent Sample	:		
Fecal Coliform by MF	cfu/100m	l <1.00	1.00	Pass	-		l	-		/	-		-	
Ammonia Dist		SM 4500	-NH3 H, 201	11			Batch #:	AB-190	0403-032	P	arent Sample	: 201	9-0999	
Ammonia Dist as Nitrogen	mg/L	<0.03	0.03	97.0 /	80-120			-		106.0 / 106.0	80-120	0.0	0-20	

FIELD QUALITY CONTROL REPORT

Work O	rder #	WO-190327-06		Pare	ent Samp	le 2019-099	99
Analyte(s)			Field Dup Result	Units	% RPD	Limits	Batch Number
Aliquot #	AB-190327	7-013 Dup - Field 1		Parent	Aliquot	2019-0999-	1-02
Total Suspended Solids	;		9.00	mg/L	2.82	0 - 5	AB-190327-013
Aliquot #	AB-190327	7-019 Dup - Field 1		Parent	Aliquot	2019-0999-	1-01
Carbonaceous Biologica	al Oxygen De	ər	1.18	mg/L	8.91	0 - 20	AB-190327-019
Aliquot #	AB-190327	7-040 Dup - Field 1		Parent	Aliquot	2019-0999-	3-01
Fecal Coliform by MF			~710	cfu/100ml	7.30	0 - 20	AB-190327-040
Aliquot #	AB-19040 ²	1-012 Dup - Field 1		Parent	Aliquot	2019-0999-	1-03
Dissolved Oxygen			8.02	mg/L	0.88	0 - 20	AB-190401-012
Aliquot #	AB-19040 ²	1-013 Dup - Field 1		Parent	Aliquot	2019-0999-	1-04
рН			7.05	units	0.43	0 - 20	AB-190401-013
Aliquot #	AB-19040 ²	1-014 Dup - Field 1		Parent /	Aliquot	2019-0999-	1-05
Temperature		-	14.0	°C	0.00	0 - 20	AB-190401-014
Aliquot #	AB-190403	3-032 Dup - Field 1		Parent /	Aliquot	2019-0999-	2-01
Ammonia Dist as Nitrog	len		0.49	mg/L	5.45	0 - 20	AB-190403-032

4		ú	10-1	90327-06	0	
	Arkansas De	PARTMENT OF ENVIRO CHAIN-OF-CUSTOI	ONMEN	-		
Date	3/27/2019	Sampler (print)	ason I	Bolenbaugh		
Site Identification	City of Hazen Waste	Water Treatment Pla	nt			
Site Address	1789 Utility St., Hazer	n, AR 72064			1	
Sample ID	Sample Remarks	Time (hl	nmm)	Latitude	Longitude	Lab ID
Outfall 001		085	5	34.78888	-91.56194	2019-0999
Outfall 001 Dup		085		34.78888	-91.56194	L-0999D
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				14	1.21	
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	stody seal on each con	tainer?: (YES) NO	A REAL PROPERTY AND A REAL	els/COC agi	ree?:(YES	NO
Date/Time	Relinquished By Name/Title			eived By	,	
3-27-2019		JGH MANAGER	Name/		arrigton	Ici.t
Time	Signature	DOH / MANOR	Signatu	ITE I O	Aringtio	[Chemil
1205	1ml Balm	had a second	C	101	15	-
Date	Name/Title		Name/	Title	8	
Time	Signature	1. 2.	Signatu	ıre		
Date	Name/Title		Name/	Title		
Time	Signature		Signati	ure		
Date	Name/Title		Name/	Title		
Time	Signature		Signat	ure		

Legal COC Form Revision 001

1.8%

Effective Date: 04/16/2018



Arkansas Department of Environmental Quality for Compliance, Enforcement, or Emergency Samples



Department of Environmental Quality	uality		548			┝									┢	-	/ _	
Facility or Project Name		AFIN # / County	1	Sample	e		å	ramete	rs Req	Parameters Requested	T		ainer I	Container 1 ype Code	+	Media Code	Preserv	Preservation Code
			Сh Сh	Characteristics	ristics	_	Ţ	Total No. of Containers	of Con	tainers		P = Polye	ethylene	Polyethylene/Plastic	3	= water	A = Cool to ≤ 6°C	:o ≤ 6°C
City of Hazen WWTP CSI		59-00029	(2) €									G = Glass A = Ambei	Glass Amber Glass		<u>ت</u> ی	G = groundwater L = liquid (not water)	er) B = Sulfuric Acid C = Nitric Acid	ic Acid Acid
Printed Name of Sampler			etieoq									"	Other (Specify)	ífy)	ů N	S = soil or solid		
Jason Bolenbaugh) or Com	er Type	-	qVT noitev	ИН3-И L22' СВ	LCB				Instantaneous Flow	SI I	0.377		E = edible tissue F = whole fish B = other		E = Sodium Thiosulfate F = Other (specify)
Sample ID Date	Date Collected	Time Collected	רא) (ז) sibeN							Fi Time Analyzed	ield Mea	Field Measurements	ts Temp (°C)	Latitude (dd.ddddd)	Longitude (dd.ddddd)	Lab # 2019
Outfall 001 03/	03/27/2019	08:55) -				-	-				09:00	7.02	7.95	14.0	34.78888	-91.56194	6660-
Outfall 001 03/	03/27/2019	08:55	÷	۵.	M N	AB		1										
Outfall 001 03/	03/27/2019	08:55		٩	W A	AE		-										
Outfall 001 Dup 03/	03/27/2019	55:80	~	٩	M	, A	+					06:00	7.05	8.02	14.0	34.78888	-91.56194	-0999 b
Outfall 001 Dup 03/	03/27/2019	08:55	.	L ط	W A	AB		1								2 - 2		
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SAMPLE CONDITION UPON RECEIPT IN LAB	PT IN LAB	5.7		1		ц <u>к</u>	EMAR	(S / SA	MPLE	REMARKS / SAMPLE COMMENTS	ENTS							
1. Containers Correct V 2. COC & Labels Agree V		PRIMARY FLOW DEVICE:	w D.	4NIC	· ·	5"	K A	NESE DR	Me	THESE MEASUREME	aen De la	454	WERE ALI BR	מכורב דאו בת מיו BRATIN	er	Field TRC N Time Collected:	Field TRC Measurement (mg/L) me Collected:	ient (mg/L)
		No TotALIZER FLOW: 0.	- no-		318		CHE	CHECK.	Aci	ACTUAL	R	FLOW DURING-SAM,	SNI	New S-	Jano	TRC Result	zed:	
4. Temp (°C) Upon Receipt / / /							IS I	Vote	0	NOTED ABOVE	શં					TRC Dup Result:	tesult:	
FOR COMPLETION BT LAB ONLT	NLI												÷					

Water Quality Monitoring Dissolved Oxygen and pH Field Meters Calibration Sheet (YSI Meters ONLY)

Sampling Event Name: CITY OF HAZEN CSI	Sample Collector: JASON BOLENBAUGH	
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Calibration Check		
3/27/2019	Date	
8280	Time	

	<u>На</u>	Dissolved Oxygen
Meter Model	PH 1004	5504
Meter Serial Number	JC03315	08M100456

Compliance Branch procedures require pH probes be change Record maintenance records below and in your field logbook	Calibration Check			립	ł	
ocedures require pH acords below and in	7.07	Initial Reading	Buffer Temp. (°C):	Lot #: 86C117	Expiration Date: 3/2020	7.0 Buffe
probes be changed i your field logbook.	88.9	Calibrated Reading (STAND)	17.5	17	3/2020	7.0 Buffer Solution
Compliance Branch procedures require pH probes be changed if probe efficiency is less than 90%. Record maintenance records below and in your field logbook.	4.00	Calibrated Reading (SLOPE)	Buffer Temp. (°C): 17.5	Lot #: 86C347	Expiration Date: 3/2020	4.0 Buffer Solution
		Calibrated Reading (SLOPE)	Buffer Temp. (°C):	Lot #:	Expiration Date:	10.0 Buffer Solution
≥90% YES or NO	99.0	Efficiency %				
	6,88	7.0 Buffer Confirmation Check				

maintenance records below and in your field logbook.	Review operators manual if you circled "NO" for either accuracy check.	Calibration Check 0730 0828	Dissolved Oxygen
elow and in your	al if you circled .	0730	Warm-up Start Warm-up Time End Time
field logbook.	"NO" for either a		Warm-up End Time
	iccuracy check.	008	Altitude (Feet)
	Record	7.9	Temperature (°C)
YES	¹ Calibrated % Within ± 2% of Expected	98.9	Altitude (Feet) Temperature (°C) Expected % Saturation
ES or NO	1 ± 2% of Expected	98.9	Calibrated % Saturation
YES	² Calibrated Within ± 0.3 of Expected	11.77	Expected Calibrated Concentration (mg/L) Concentration (mg/L)
YES or NO	± 0.3 of Expected	/1.75	Calibrated Concentration (mg/L)

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²Review Table 2 to find the Expected Concentration at your given Elevation and Meter Temperature (i.e. at 300 feet elevation and 10°C, the Expected Concentration is 11.18 mg/L) ¹Peview Table 1 to find the Expected Saturation (Correction Factor) at your given Elevation (i.e. at 300 feet elevation the Expected Saturation is 98.9%).

Last Revision Date: October 17, 2018