
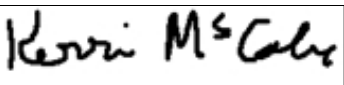
 A R K A N S A S Department of Environmental Quality		WATER DIVISION INSPECTION REPORT						
		AFIN: 26-00145		PERMIT #: AR0033880		DATE: 7/17/2017		
		COUNTY: 26 Garland			PDS #: 098723		MEDIA: WN	
		GPS LAT: 34.450316 LONG: -93.019033 LOCATION: General Area						
FACILITY INFORMATION				INSPECTION INFORMATION				
NAME: Hot Springs POTW LOCATION: 320 Davidson Drive CITY: Hot Springs, AR 71902				FACILITY TYPE: 1 - Municipal		INSPECTOR ID#: 34689 S - State		
RESPONSIBLE OFFICIAL NAME / TITLE: Mr. David Frasher / City Manager COMPANY: City of Hot Springs MAILING ADDRESS: 133 Convention Blvd. CITY, STATE, ZIP: Hot Springs AR 71901 PHONE & EXT: / FAX: 501-321-6811 / 501-321-6814 EMAIL: dfrasher@cityhs.net jsorrells@cityhs.net CONTACTED DURING INSPECTION: No				FACILITY EVALUATION RATING: 5 - Satisfactory		INSPECTION TYPE: Compliance Sampling		
				DATE(S): 7/17/2017		ENTRY TIME: 09:30	EXIT TIME: 13:30	PERMIT EFFECTIVE DATE: 2/1/2013
				7/18/2017		06:45	07:30	PERMIT EXPIRATION DATE: 1/31/2018
				FAYETTEVILLE SHALE RELATED: N				
FAYETTEVILLE SHALE VIOLATIONS: N				INSPECTION PARTICIPANTS				
				NAME/TITLE/PHONE/FAX/EMAIL/ETC.: Jim Sorrells/ C.O., Facility Operations Manager/ 501-262-1881 Harold Mauldin/ Lab/ 501-262-1881				
AREA EVALUATIONS								
(S=Satisfactory, M=Marginal, U=Unsatisfactory, N=Not Applicable/Evaluated)								
N	PERMIT	N	FLOW MEASUREMENT	N	STORMWATER			
N	RECORDS/REPORTS	N	LABORATORY	N	FACILITY SITE REVIEW			
N	OPERATION & MAINTENANCE	N	EFFLUENT/RECEIVING WATER	N	SELF-MONITORING PROGRAM			
S	SAMPLING	N	SLUDGE HANDLING/DISPOSAL	N	PRETREATMENT			
N	OTHER:							
SUMMARY OF FINDINGS								
No violation noted during the inspection. The facility was meeting permitted effluent limits (Daily Maximum/Minimum and Monthly Average) at the time of the CSI.								
GENERAL COMMENTS								
I collected grab samples (DO, pH, and TRC) July 17, 2017 and analyzed using Department field meters. Composite samples (CBOD5, TSS, NH3-N, TP, and NO3+NO2-N) were collected July 18, 2017 and delivered to the ADEQ laboratory for analysis. The flow rate during the compositing period was 8.67 MGD. Copies of the lab analysis report and the sample COC sheet are included.								
INSPECTOR'S SIGNATURE: 				Travis Harmon		DATE: 8/21/17		
SUPERVISOR'S SIGNATURE: 				Kerri McCabe		DATE: 8/23/2017		

Hot Springs POTW CSI Results

	D.O.	pH	TRC	CBOD	TSS	Amm-N	TP	NO3+N O2-N
Result	7.56		0.02	1.16		0.169	0.246	4.41
Daily	mg/l	6.69 s.u.	mg/l	mg/l	4.3 mg/l	mg/l	mg/l	mg/l
Max.	5.0 mg/l (min)	6-9 s.u.	0.1 mg/l	15 mg/l	22.5 mg/l	9 mg/l	Report	Report
Loading				83.9 lb	310.9 lb	12.2 lb	17.8 lb	318.9 lb
Load								
Limit				1000 lb	1500 lb	360.3 lb	100.1 lb	Report



5301 Northshore Drive
North Little Rock, AR 72118
Telephone: 501-682-0744

Client Report For: City of Hot Springs AR0033880 CSI (26-00145) 2017 2327
Attention:
Client Address:

Report Date: August 11, 2017
LAB ID: AR17JUL18-02
Comment:

A quality control excursion occurred during the CBOD analysis resulting in qualified data. According to method requirements, the average of the two Laboratory Control Sample (LCS) recoveries must be within method specified control limits of 84.5 – 115% recovery. The average recovery of the two LCS samples for this batch was 116%. As per lab QA protocol, the result was qualified as “estimated” due to this failure.

Inspection Report: **Hot Springs POTW**, AFIN: **26-00145**, Permit #: **AR0033880**

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5301 Northshore Drive
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Laboratory Contact: Jeff Ruehr
Ruehr@adeq.state.ar.us
501-682-0955

Client:	All Sites	Client Sample ID:	HS Outfall 001
Lab ID:	2017-2327	Collection Date:	7/18/2017 7:09:00 AM
		Matrix:	Water

Analyses

Ammonia as Nitrogen

SM 4500-NH₃ H (20th)

Batch: 17072003 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>Qual</u>	<u>Unit</u>
Ammonia as N	0.169	0.03		mg/L
Dilution Factor	1			
Analyzed By	Patrick Rawhouser			
Analysis Date/Time	7/19/2017 12:05:58 PM			

Carb. Biochemical Oxygen Demand (CBOD) 5 Day

SM 5210-B

Batch: 17072801 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>Qual</u>	<u>Unit</u>
Carbonaceous BOD	1.16*	0.2	E*	mg/L
Analyzed By	Robert Graddy			
Analysis Date/Time	7-19-2017 16:09			

*E = Estimated result due to
LCS failure

Nitrate and Nitrite

SM 4500-NO₃ I (20th)

Batch: 17072005 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>Qual</u>	<u>Unit</u>
Nitrate/Nitrite as N	4.41	0.05		mg/L
Dilution Factor	1			
Analyzed By	Patrick Rawhouser			
Analysis Date/Time	7/19/2017 12:05:58 PM			

Total Dissolved Solids

EPA 160.1

Batch: 17072403 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>Qual</u>	<u>Unit</u>
Total Dissolved Solids	176	5.0		mg/L
Analyzed By	Katy Hattenhauer			
Analysis Date/Time	7/19/2017 11:30			

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Total Suspended Solids

EPA 160.2

Batch: 17072402 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>Qual</u>	<u>Unit</u>
Total Suspended Solids	4.3	1.0		mg/L
Analyzed By	Katy Hattenhauer			
Analysis Date/Time	7/19/2017 7:09			

Total Phosphorus

SM 4500-P J (20th)

Batch: 17072006 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>Qual</u>	<u>Unit</u>
Phosphorus-total	0.246	0.02		mg/L
Dilution Factor	1			
Analyzed By	Patrick Rawhouser			
Analysis Date/Time	7/20/2017 9:38:15 AM			

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Analytical Quality Control Results Report

Batch: 17072801	CBOD5 - water
HS Outfall 001	LIMS ID: 2017-2327

CBOD - water DUP

Run: 1

Parameter	Result	RL	Accuracy Control	Precision Control
Carbonaceous BOD	1.27 mg/L	0.2		
Carbonaceous BOD (RPD)	9.1 %			0 - 20
Analyzed By	Robert Graddy			
Analysis Date/Time	7-19-2017 16:09			

MB	LIMS ID: 17072801-MB-01
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CBOD - water MB

Run: 1

Parameter	Result	RL	Accuracy Control	Precision Control
Carbonaceous BOD	<0.2 mg/L	0.2		
Analyzed By	Robert Graddy			
Analysis Date/Time	7-19-2017 16:09			

LCS	LIMS ID: 17072801-LCS-01
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CBOD - water LCS

Run: 1

Parameter	Result	Qual	Accuracy Control	Precision Control
Carbonaceous BOD (% Recovery)	116 %	L	84.6 - 115	
Analyzed By	Robert Graddy			
Analysis Date/Time	7-19-2017 16:09			

L = LCS did not recover within method specified criteria

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Analytical Quality Control Results Report

Batch: 17072402	TSS - water
HS Outfall 001	LIMS ID: 2017-2327

Solids, Total Suspended - water DUP

Run: 1

<i>Parameter</i>	<i>Result</i>	<i>RL</i>	<i>Accuracy Control</i>	<i>Precision Control</i>
Total Suspended Solids	3.8 mg/L	1		
Total Suspended Solids (RPD)	12.3 %			0 - 20
Analyzed By	Katy Hattenhauer			
Analysis Date/Time	7/19/2017 7:09			

MB	LIMS ID: 17072402-MB-01
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Solids, Total Suspended - water MB

Run: 1

<i>Parameter</i>	<i>Result</i>	<i>RL</i>	<i>Accuracy Control</i>	<i>Precision Control</i>
Total Suspended Solids	<1 mg/L	1		
Analyzed By	Katy Hattenhauer			
Analysis Date/Time	7/19/2017 7:09			

LCS	LIMS ID: 17072402-LCS-01
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Solids, Total Suspended - water LCS

Run: 1

<i>Parameter</i>	<i>Result</i>	<i>RL</i>	<i>Accuracy Control</i>	<i>Precision Control</i>
Total Suspended Solids (% Recovery)	96.0 %		90 - 110	
Analyzed By	Katy Hattenhauer			
Analysis Date/Time	7/19/2017 7:09			

Inspection Report: **Hot Springs POTW**, AFIN: **26-00145**, Permit #: **AR0033880**

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Analytical Quality Control Results Report

Batch: 17072403	TDS - water
HS Outfall 001	LIMS ID: 2017-2327

Solids, Total Dissolved - water DUP

Run: 1

<i>Parameter</i>	<i>Result</i>	<i>RL</i>	<i>Accuracy Control</i>	<i>Precision Control</i>
Total Dissolved Solids (RPD)	2 %			0 - 20
Total Dissolved Solids	179 mg/L	5		
Analyzed By	Katy Hattenhauer			
Analysis Date/Time	7/19/2017 11:30			

MB	LIMS ID: 17072403-MB-01
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Solids, Total Dissolved - water MB

Run: 1

<i>Parameter</i>	<i>Result</i>	<i>RL</i>	<i>Accuracy Control</i>	<i>Precision Control</i>
Total Dissolved Solids	<5.0 mg/L	5		
Analyzed By	Katy Hattenhauer			
Analysis Date/Time	7/19/2017 11:30			

LCS	LIMS ID: 17072403-LCS-01
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Solids, Total Dissolved - water LCS

Run: 1

<i>Parameter</i>	<i>Result</i>	<i>RL</i>	<i>Accuracy Control</i>	<i>Precision Control</i>
Total Dissolved Solids (% Recovery)	102 %		90 - 110	
Analyzed By	Katy Hattenhauer			
Analysis Date/Time	7/19/2017 11:30			

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Analytical Quality Control Results Report

Batch: 17072003	Lachat - Ammonia (water)
HS Outfall 001	LIMS ID: 2017-2327

Ammonia as N - water DUP

Run: 1

Parameter	Result	RL	Accuracy Control	Precision Control
Ammonia as N (RPD)	2.3 %			0 - 20
Ammonia as N	0.173 mg/L	0.03		
Dilution Factor	1			
Analyzed By	Patrick Rawhouser			
Analysis Date/Time	7/19/2017 12:07:09 PM			

MB	LIMS ID: 17072003-MB-01
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Ammonia as N - water MB

Run: 1

Parameter	Result	RL	Accuracy Control	Precision Control
Ammonia as N	<0.03 mg/L	0.03		
Dilution Factor	1			
Analyzed By	Patrick Rawhouser			
Analysis Date/Time	7/19/2017 11:39:56 AM			

LCS	LIMS ID: 17072003-LCS-01
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Ammonia as N - water LCS

Run: 1

Parameter	Result	RL	Accuracy Control	Precision Control
Ammonia as N (% Recovery)	107 %		80 - 120	
Dilution Factor	1			
Analyzed By	Patrick Rawhouser			
Analysis Date/Time	7/19/2017 11:41:08 AM			

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Analytical Quality Control Results Report

Batch: 17072005	Lachat - NO3+NO2 (water)
HS Outfall 001	LIMS ID: 2017-2327

Nitrate and Nitrite - water DUP**Run: 1**

Parameter	Result	RL	Accuracy Control	Precision Control
Nitrate/Nitrite as N	4.39 mg/L	0.05		
Nitrate/Nitrite as N (RPD)	0.5 %			0 - 20
Dilution Factor	1			
Analyzed By	Patrick Rawhouser			
Analysis Date/Time	7/19/2017 12:07:09 PM			

MB	LIMS ID: 17072005-MB-01
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Nitrate and Nitrite - water MB**Run: 1**

Parameter	Result	RL	Accuracy Control	Precision Control
Nitrate/Nitrite as N	<0.05 mg/L	0.05		
Dilution Factor	1			
Analyzed By	Patrick Rawhouser			
Analysis Date/Time	7/19/2017 11:39:56 AM			

LCS	LIMS ID: 17072005-LCS-01
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Nitrate and Nitrite - water LCS**Run: 1**

Parameter	Result	RL	Accuracy Control	Precision Control
Nitrate/Nitrite as N (% Recovery)	96.7 %		80 - 120	
Dilution Factor	1			
Analyzed By	Patrick Rawhouser			
Analysis Date/Time	7/19/2017 11:41:08 AM			

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Analytical Quality Control Results Report

Batch: 17072006	Lachat - TP (water)
HS Outfall 001	LIMS ID: 2017-2327

TP (Total Phosphorus) - water DUP

Run: 1

Parameter	Result	RL	Accuracy Control	Precision Control
Phosphorus-total	0.23 mg/L	0.02		
Phosphorus-total (RPD)	6.7 %			0 - 20
Dilution Factor	1			
Analyzed By	Patrick Rawhouser			
Analysis Date/Time	7/20/2017 9:39:21 AM			

MB	LIMS ID: 17072006-MB-01
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TP (Total Phosphorus) - water MB

Run: 1

Parameter	Result	RL	Accuracy Control	Precision Control
Phosphorus-total	<0.02 mg/L	0.02		
Dilution Factor	1			
Analyzed By	Patrick Rawhouser			
Analysis Date/Time	7/20/2017 8:50:58 AM			

LCS	LIMS ID: 17072006-LCS-01
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TP (Total Phosphorus) - water LCS

Run: 1

Parameter	Result	RL	Accuracy Control	Precision Control
Phosphorus-total (% Recovery)	108 %		80 - 120	
Dilution Factor	1			
Analyzed By	Patrick Rawhouser			
Analysis Date/Time	7/20/2017 8:52:05 AM			

Use back for additional notes and remarks