



ARKANSAS
Department of Environmental Quality

May 16, 2016

W.H. Calvin Murdock, Manager
Forrest City WWTP
303 North Rosser
Forrest City, AR 72336

RE: City of Forrest City Inspections (St. Francis Co)
AFIN: 62-00070 NPDES Permit No.: AR0020087
ARR000222

Dear Mr. Murdock:

On April 20, 2016, I conducted a Compliance Evaluation Inspection, a Sanitary Sewer Collection System, and an Industrial Stormwater 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.



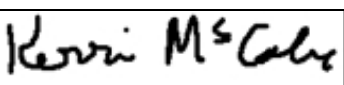
Please refer to the "Summary of Findings" section of each of the attached inspection reports and provide a written response for each violation that was noted. This case has been referred directly to the Water Division Enforcement Branch for further review. The facility should immediately initiate all actions necessary to resolve and correct the violations cited in the inspection report. Written notification of the corrective actions taken for the violations must be submitted within thirty (30) days from the receipt of this letter to the attention of Richard Healey, Water Division Enforcement Branch, (501) 682-0649 or healeyr@adeq.state.ar.us. This written notification should include; but not limited to, photographs and/or copies of other documentation.

If I can be of any assistance, please contact me at henderson@adeq.state.ar.us or (870) 247-5155.

Sincerely,

A handwritten signature in cursive script that reads "Steven L. Henderson".

Steven L. Henderson
District 6 Field Inspector
Water Division

 A R K A N S A S Department of Environmental Quality		WATER DIVISION INSPECTION REPORT							
		AFIN: 62-00070		PERMIT #: AR0020087		DATE: 4/20/2016			
		COUNTY: 62 St. Francis		PDS #: 090729		MEDIA: WN			
		GPS LAT: 34.997413 LONG: -90.835236 LOCATION: Entrance							
FACILITY INFORMATION				INSPECTION INFORMATION					
NAME: Forrest City WWTP LOCATION: Approximately 3 miles West of Forrest City, at the end of SFC 209 CITY: Forrest City, AR 72336				FACILITY TYPE: 1 - Municipal		INSPECTOR ID#: 26075 S - State			
RESPONSIBLE OFFICIAL NAME: / TITLE W. H. Calvin Murdock, / Manager COMPANY: Forrest City WWTP MAILING ADDRESS: 303 North Rosser, P.O. Box 1074 CITY, STATE, ZIP: Forrest City, AR 72336 PHONE & EXT: / FAX: 870-261- 1424 / EMAIL:				FACILITY EVALUATION RATING: 1 - Unsatisfactory		INSPECTION TYPE: Compliance Evaluation			
				DATE(S): 4/20/2016		ENTRY TIME: 09:00		EXIT TIME: 12:00	
				PERMIT EFFECTIVE DATE: 8/1/2012		PERMIT EXPIRATION DATE: 7/31/2017			
				FAYETTEVILLE SHALE RELATED: N					
FAYETTEVILLE SHALE VIOLATIONS: N				INSPECTION PARTICIPANTS					
CONTACTED DURING INSPECTION: No				NAME/TITLE/PHONE/FAX/EMAIL/ETC.: Joel Thetford, Class III Operator, # 05326, 870-270-0201					
AREA EVALUATIONS									
(S=Satisfactory, M=Marginal, U=Unsatisfactory, N=Not Applicable/Evaluated)									
S	PERMIT	S	FLOW MEASUREMENT	N	STORMWATER				
S	RECORDS/REPORTS	S	LABORATORY	U	FACILITY SITE REVIEW				
U	OPERATION & MAINTENANCE	S	EFFLUENT/RECEIVING WATER	U	SELF-MONITORING PROGRAM				
S	SAMPLING	S	SLUDGE HANDLING/DISPOSAL	N	PRETREATMENT				
N	OTHER:								
SUMMARY OF FINDINGS									
At the time of inspection, the follow violation was noted: 1. Part III, SECTION B, Item 1A; Inadequate Operation and Maintenance. Specifically, there was a significant amount of erosion on the levees of the North EQ Basin. This is a REPEAT violation cited during the April 2014 inspection.									
GENERAL COMMENTS									
This violation was also noted in an inspection conducted on April 17, 2014 and August 20, 2014. It appears that no action has been taken to correct the issue.									
INSPECTOR'S SIGNATURE: 						Steven L. Henderson			
SUPERVISOR'S SIGNATURE: 						Kerri McCabe			
						DATE: 4/29/2016			
						DATE: 5/16/2016			

SECTION A: PERMIT VERIFICATION

PERMIT SATISFACTORILY ADDRESSES OBSERVATIONS

☒S ☐M ☐U ☐NA ☐NE

DETAILS:

- | | |
|--|--|
| 1. CORRECT NAME AND MAILING ADDRESS OF PERMITTEE: | <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: | <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

☒S ☐M ☐U ☐NA ☐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: | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE |
| b. EXACT LOCATION(S) OF SAMPLING: | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE |
| c. NAME OF INDIVIDUAL PERFORMING SAMPLING: | <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: | <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

☐S ☐M ☒U ☐NA ☐NE

DETAILS: Significant erosion of lagoon levees in North EQ Basin.

- | | |
|---|---|
| 1. TREATMENT UNITS PROPERLY OPERATED: | <input type="checkbox"/> S <input type="checkbox"/> M <input checked="" type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE |
| 2. TREATMENT UNITS PROPERLY MAINTAINED: | <input type="checkbox"/> S <input type="checkbox"/> M <input checked="" type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE |
| 3. STANDBY POWER OR OTHER EQUIVALENT PROVIDED: | <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: | <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: | <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 checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE |
| 9. STANDARD OPERATING PROCEDURES AND SCHEDULES ESTABLISHED: | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input 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: | <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE |
| 12. IF SO, HAS THE REGULATORY AGENCY BEEN NOTIFIED: | <input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE |
| 13. HAS CORRECTIVE ACTION BEEN TAKEN TO PREVENT ADDITIONAL BYPASSES/OVERFLOWS: | <input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" 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:	<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: <u>12" Parshall flume</u>	<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:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
4. CALIBRATION FREQUENCY ADEQUATE:	<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:	
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 checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
5. DUPLICATE SAMPLES ARE ANALYZED $\geq 10\%$ OF THE TIME:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
6. SPIKED SAMPLES ARE ANALYZED $\geq 10\%$ OF THE TIME:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
7. COMMERCIAL LABORATORY USED:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
a. LAB NAME: <u>Environmental Services, Inc.</u>	
b. LAB ADDRESS: <u>13715 West Markham, Little Rock, AR 72211</u>	
c. PARAMETERS PERFORMED: <u>NH3-N, CBOD, FCB, TSS, Cu, NO3+NO2-N, TP</u>	
8. BIOMONITORING PROCEDURES ADEQUATE:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
a. PROPER ORGANISMS USED:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
b. PROPER DILUTION SERIES FOLLOWED:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
c. PROPER TEST METHODS AND DURATION:	<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 checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE

SECTION G: EFFLUENT/RECEIVING WATERS OBSERVATIONS

BASED ON VISUAL OBSERVATIONS ONLY

☒S ☐M ☐U ☐NA ☐NE

DETAILS:

OUTFALL #:	OIL SHEEN	GREASE	TURBIDITY	VISIBLE FOAM	FLOATING SOLIDS	COLOR	OTHER
001	None	None	None	None	None	Clear	None

SECTION H: SLUDGE DISPOSAL

SLUDGE DISPOSAL MEETS PERMIT REQUIREMENTS

☒S ☐M ☐U ☐NA ☐NE

DETAILS:

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):

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:

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:	4/20/2016	Time:	10:00	
Head in Inches:	11.52	Feet:	0.9600	
Type & Size of Primary Flow Measurement Device: 12" Parshall Flume				
Name & Model of Secondary Flow Measurement Device:				Greyline SLT32
Date of last Calibration of Secondary Flow Device:				8/4/2015
Recorded Flow at Date & Time Listed Above:				2.3140 (Facility Flow Meter)
Calculated Flow at Date & Time Listed Above:				2.3960
(Flow is calculated using flow charts in: <u>ISCO Open Channel Flow Measurement Handbook-5th Edition</u>)				
% Error =	Recorded Value	-	Calculated Value	
	Calculated Value		X 100	
% Error =	2.3140	-	2.3960	
	2.3960		X 100	
% Error =	-0.082	X 100		
	2.3960			
% Error =	-0.0342	X 100		
% Error =	-3.42	%		
Comments:	<u>Within acceptable range</u>			



DMR Calculation Check


Reporting Period:	From	<u>2016</u>	<u>01</u>	<u>01</u>	To	<u>2016</u>	<u>01</u>	<u>31</u>
		Year	Month	Day		Year	Month	Day

Parameter Checked: TSS

	Loading Mass Mo. Avg. - lbs/day	Concentration Monthly Mo. Avg. - mg/l	7-day Avg. - mg/l
Reported Value:	232.5	13.8	18.7
Calculated Value:	232.5	13.8	18.7
Permit Value:	353.6	20	30

If calculated value does not equal reported value, explain: EQUAL

Water Division Photographic Evidence Sheet					
Location:	Forrest City WWTP				
Photographer:	Steven L. Henderson	Date:	4/20/2016	Time:	10:33
Witness:	Joel Thetford, Class III Operator			Photo #:	1
Description:	Significant erosion of North EQ Basin levee.				
					
Photographer:	Steven L. Henderson	Date:	4/20/2016	Time:	10:33
Witness:	Joel Thetford, Class III Operator			Photo #:	2
Description:	Significant erosion of North EQ Basin levee.				
					

Water Division Photographic Evidence Sheet			
Location:	Forrest City WWTP		
Photographer:	Steven L. Henderson	Date:	4/20/2016
Witness:	Joel Thetford, Class III Operator	Time:	10:36
		Photo #:	3
Description:	Significant erosion of North EQ Basin levee.		
			
Photographer:	Steven L. Henderson	Date:	4/20/2016
Witness:	Joel Thetford, Class III Operator	Time:	10:36
		Photo #:	4
Description:	Significant erosion of North EQ Basin levee.		
			

Water Division Photographic Evidence Sheet

Location:	Forrest City WWTP		
Photographer:	Steven L. Henderson	Date:	4/20/2016
Witness:	Joel Thetford, Class III Operator	Time:	10:38
		Photo #:	5
Description:	Significant erosion of North EQ Basin levee.		



Photographer:	Steven L. Henderson	Date:	4/20/2016
Witness:	Joel Thetford, Class III Operator	Time:	10:39
		Photo #:	6
Description:	Significant erosion of North EQ Basin levee.		





FORREST CITY WATER UTILITY

303 NORTH ROSSER ST.

FORREST CITY, ARKANSAS 72335

870-633-2921

JUNE 20, 2016

Mr. Steven L. Henderson

Arkansas Department of Environmental Quality

District 6 Field Inspector

Water Division

RE: Response to Summary of Findings; April 20, 2016 Compliance Inspection

AFIN: 62-00070

NPDES Permit No: AR0020087 , ARR000222

1. Improper operation and maintenance

- a) Erosion of levees- The Levee erosion of the North EQ Basin is currently being addressed as a part of our ongoing facilities maintenance program. It may appear that nothing is being done, however subsequent to our April 2014 inspection we have been discharging from the north basin on a daily basis in excess of 1MGD. In order for repairs to be completed, it is necessary to drain the pond. We deployed a plug in the equalization pipe the end of April this year. We anticipate having a dry pond by mid-August which will give us a (60) sixty day window to complete work on the worst sections of the north banks of the north pond this season. (see enclosed photos) These Basins are approximately 160 acres containing more than 1/4billion gals. The original design of the pond system did not contemplate isolating the two structures therefore there was no valve installed.

2. Inadequate Operation and Maintenance

- a) The Turner Pump Station: Please review the attached report.
- b) The Mallory Pump Station: Please review the attached report.
- c) The Prison Pump Station: Please review the attached report.
- d) The Prison Pump Station has major issue with the character of items deposited into the system. We are currently working with The Prison and our engineers to develop a solution to an increasing problem. (please see attached photos)

Please review our response to prior inspections as to the reason for the pond erosion issue.

The Utility now has an I/I implementation plan with the approved budget to formally engage our consultant.

Sincerely,

Forrest City Water Utility

W.H. Calvin Murdock, Utility Manager

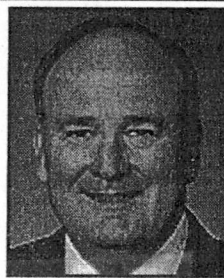
(870)261-2849 -Whcm2@aol.com



Ingram

View from the Senate

*With State Senators
Keith Ingram and Ronald Caldwell*



Caldwell

Murdock to give council itemized list of improvements for sewer ponds

Forrest City Water Utility Manager Calvin Murdock has agreed to present city council members with a list itemizing equipment and repairs needed at the city's sewer ponds.

Discussion of the conditions at the ponds was held during last Tuesday's council meeting. Murdock presented the council with a packet of information, including a list of Arkansas water utilities facing open formal enforcement actions from the National Pollutant Discharge Elimination System. While the local utility is not listed, Murdock said action needs to be taken on the system to address infiltration issues which could lead to problems with the sewer ponds.

"There are 54 municipalities (in Arkansas) that are operating under consent decrees for facilities that have overflow issues or have exceeded their discharge permits," said Murdock. "The reason I really wanted to bring this item to your attention is that we have significant equipment that we need to purchase. We need to purchase our camera equipment, we need to purchase our vehicle, because we need to be focusing on our I and I (Infiltration and Inflow) assessment so we can make the needed repairs to our sanitation system. We need to act expeditiously to put us in a position to purchase that equipment so we can begin the work that is absolutely crucial to us so we don't end up on this list."

Councilman Roger Breeding asked if the city currently has employees who could operate the equipment, if purchased.

"We have proposals, that I think I presented in the past, from a firm in Dallas that has

We have got to have people who can do all of the things we need to do. We need to start I and I, we need to start line replacement as well as continue with the things we've been doing, historically, just repair," said Murdock.

"We have a monumental amount of work to do, but we can't train the people if we don't have the equipment on hand to train them on," said Murdock.

Breeding asked if the city should contract the repairs rather than wait for employees to be trained.

"Rather than trying to buy equipment and bring someone in and train them on this equipment to deal with this problem, wouldn't it be quite a bit more expeditious and probably less expensive to hire an engineering firm through a bid?" asked Breeding.

Murdock told the council the city currently has a study outlining the work that needs to be done to replace the ponds but said repair is what is needed.

Mayor Larry Bryant asked Murdock if he could present the council with a detailed abstract outlining what equipment and repairs are needed along with information regarding the anticipated costs to repair the system.

Council members also heard

reports from several department heads, including interim Police Chief Deon Lee. Lee updated the council on vacancies within the department and presented them with a report comparing January incidents for 2015 and 2016. According to the report, there were 42 incidents reported in January this year, down from 58 incidents reported last January.

Bryant also updated the council on construction at the new fire department substation, in the absence of fire chief Johnny Ruffin, and gave a report on public works due to an absence by public works department assistant director George Rooks.

The council also received a brief update on plans for the new city hall. Bryant asked the council if the new facility should include small offices for each of the eight council members.

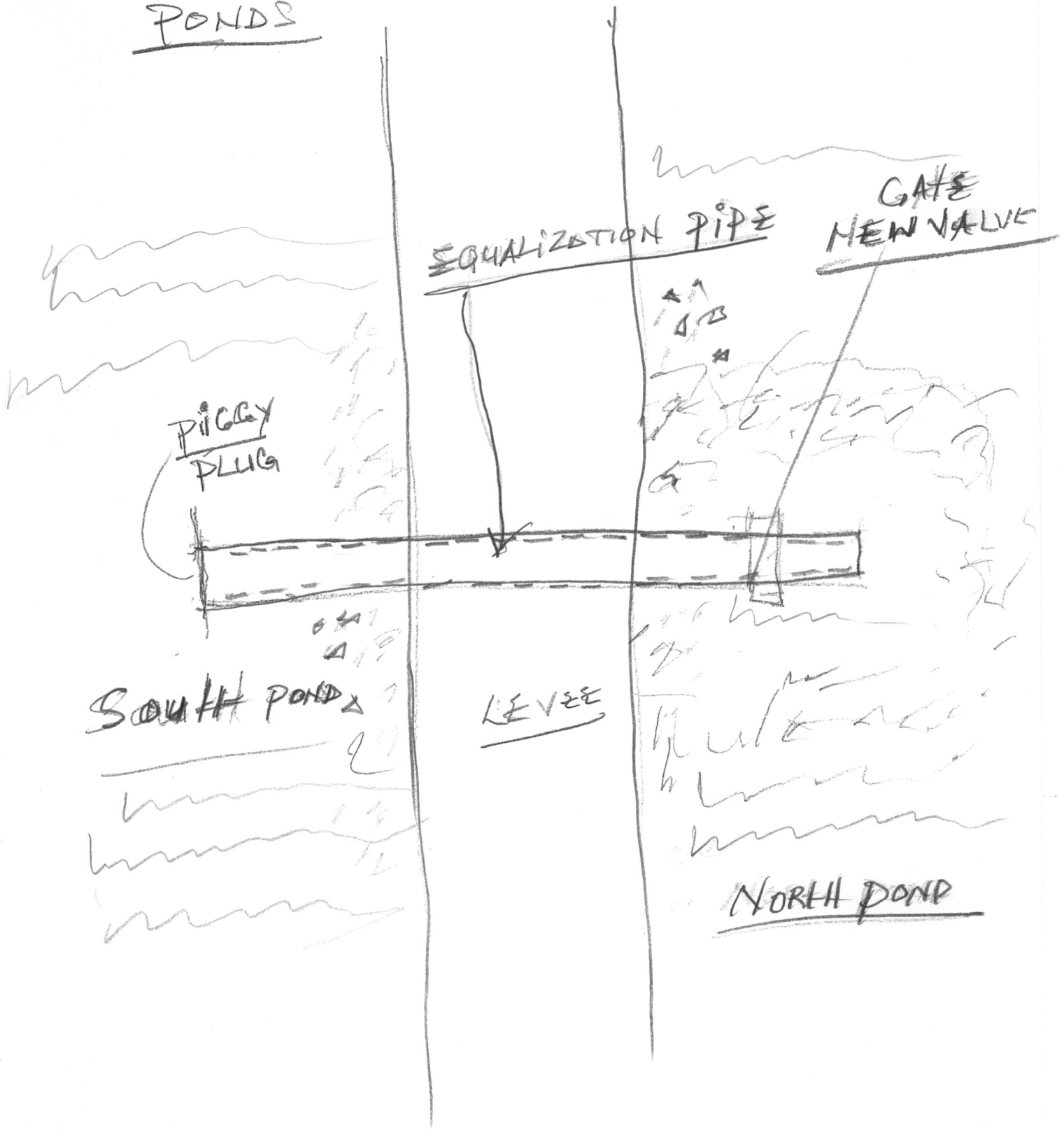
"I had someone ask if that was going to be included, so I thought I would ask before we had it included in any plans. The building will have a large foyer so people can have receptions and so forth, along with meeting rooms, but nothing as large as we have at the Civic Center," said Bryant.

Without taking a vote, council members rejected the idea of including offices in the plans.

WASTEWATER TREATMENT

1/13/16

PONDS



















CURRENT NORTH POND BANK

6/20/16

PLUG DEPLOYED ON 5/16/16 9:00 AM

To ADEQ

Attn: Steven Henderson

From: City of Forrest City

This report is in response to the findings of your inspection that was done on 04/20/2016. The inspections were performed at Turner Pump station, and the Federal prison Pump station, which are currently assigned to the collections department.

The findings were as follows the Turner station was found to have heavy amounts of grease and floating solids as well as debris. The station was treated and cleaned within the week of the findings; there has been an ongoing process of working with the local housing authority which the station is on their property, and owned by the housing authority as well. There is an ongoing problem with the large amounts of grease and debris that is produced from the housing complex that inadvertently flows into the lift station. Different measures are constantly taken to try and prevent the large amounts of grease and foreign materials from entering the pump station. When available a private contractor suctions the debris and grease out of the pit.

The other station in question is the Prison station, the issue arose due to both of the primary submersible pumps were damaged and inoperable about the same time period, due the heavy amounts of bed sheets, blankets, batteries that are being processed through the system. The primary pumps are in the process of being repaired and will be placed back in service once they are repaired, to help alleviate the overflow issue. The Federal Bureau of Prisons owns the facility, not the water utility. There is an ongoing issue with the prison providing replacement parts for the facility. There is a 6" backup pump that is currently being used to keep the system operational. At the time of the inspection the system was inundated with a lot of bedsheets and the grinder couldn't handle the load, and some of the material clogged the backup pump. The system was brought back up to working order within the hour of the system failure. The area was then cleaned and disinfected the same day as the overflow. The system is monitored every day, and at night during the peak use hours and as well as the off peak hours to help prevent any future incidents.

Attachments:

Photos Turner Lift station Prison Lift station



Forrest City Water Utility

303 NORTH ROSSER ST.

FORREST CITY, ARKANSAS 72335

870-633-2921

NON-COMPLIANCE REPORT

Facility Name: Forrest City Wastewater Treatment Plant

NPDES Permit: AR0020087

Inspection Date 4/20/16

VIOLATION Inadequate Operation and Maintenance - Mallory Pump Station

CORRECTIVE ACTION/PREVENTIATIVE MEASURES/OTHER NARRATIVE:

At time of inspection, Pump #1 was operational. Pump #2 was Out of Service due to bearing failure and was waiting for repair/replacement pump. Pump #3 was Out of Service due to unknown blockage and could not be clear until repairs on Pump #2 were completed. Pump # 2 parts arrived on 5/12/2016 and were installed 5/16/2016 but, could not be completed because the pump shims were not shipped with the parts. During this time we were able to clear the blockage from Pump #3. As of 5/18/2016 Mallory Station has 2 operational pumps. (Pumps #1 & #3). We will have pump #2 operational as soon as the shims arrive.

Calvin Murdock

TURNER PUMP STATION



TURNER PUMP STATION





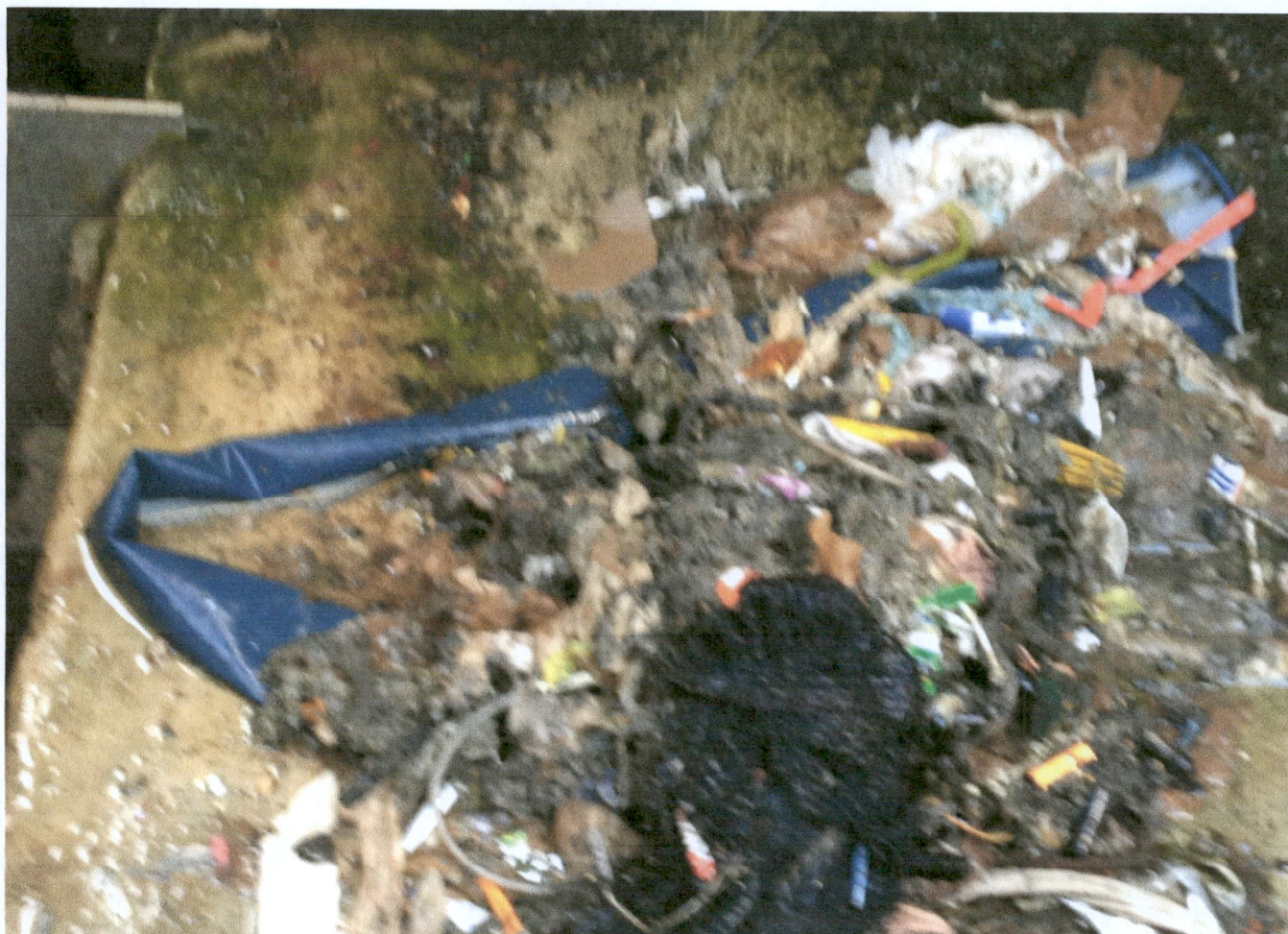
F&D. PRISON



FED PRISON



FED. PRISON



FED. PRISON



FED. PRISON





FEDERAL PRISON



FORREST CITY WATER UTILITY

303 NORTH ROSSER ST.

FORREST CITY, ARKANSAS 72335

870-633-2921

October 30, 2014

ADEQ

certified mail #7013-3020-0001-6983-4780

5301 Northshore Dr.

North Little Rock, AR. 72118-5317

ATTN: Michael Greenway- District 3 Field Inspector-Water Division

Dear Sir:

RE: Response to Summary of Findings; August 20, 2014 Compliance Inspection

1. Improper operation and maintenance

- a) Erosion of levees- Please be reminded that the ponds have been utilized for the past (15) years for overflow. The current condition of lost freeboard was created by an extreme rain event on June 29th of this year, approximately 14" within twelve hours. Please review your photos of April of this year and there was 18"-24" freeboard. We recognize the problem and we are working very diligently to develop both a short term and long term solution. We are of course now into the rainy season so we don't anticipate being able to perform any work on the ponds until late spring at best.
- b) We are currently discharging approx.. 1.00MGD from the ponds
- c) Please find attached for your records our accepted proposal from Bryan Locke, LLC to perform Chemical injection for the cracks in our UV Structure. This work should be completed by November 20, 2014

Thank you for your continued supports. If there are further questions or concerns please contact me at your earliest opportunity.

Sincerely,

Forrest City Water Utility

W. H. Calvin Murdock, Manager

Whcm2@forrestcitywater.com

(870)261-2849 cell

Enclosures

BEFORE





[Download](#)

MAJOR WASHOUT ACCESS ROAD TO WELL FIELD.

6/29/14

AFTER THE FLOOD



Download

From: Stephen Jeffus <sjeffus@rjnmail.com>

To: Calvin Murdock <whcm2@aol.com>

Subject: Revised field training scope and additional info on Mapping and Asset Management

Date: Mon, Apr 13, 2015 3:20 pm

Attachments: Asset Management Program Development for Forrest City.docx (48K),
Field Inspection Training for Forrest City Draft 04092015.docx (43K),
Overall Wastewater System Maps Inventory and Map Development.docx (43K)

Mr. Murdoch,

As per our discussion recently I've compiled some additional information for your review and consideration. I've revised the training scope and added a scope on mapping and one covering the development of an asset management program.

I revised the training scope to provide some clarification and to add content based on feedback we received from other clients that have gone through a training program with us. The mapping scope includes the development of an asset ID and naming protocol along with the development of an asset database that facilitates GIS and compilation of a digital map of the sewer system. This can be done whether the surveying is completed by RJN or by Forrest City Water Utility. The Asset Management scope includes the development of the standards and protocol for listing and naming of water and sewer assets. There is some potential overlap between some areas of each scope. Each scope is designed to stand-alone but can easily be meshed with any of the others.

TRAINING

One change to the training scope based on the feedback from our clients is the addition of an initial workshop to go over the Forrest City Water Utility's goals and discuss the resources needed to meet those goals. The training modules can then be selected that best the Utility's goals and available resources. For example, dyed water testing involves a considerable amount of equipment that might only serve that one purpose. If the Utility doesn't want to tie up the resources in a dye trailer there is no needed to include training on dyed water inspections. Each investigation technique, and its resource requirement, will be evaluated in terms of the expected resources and capital to implement and sustain.

We also recommend that consideration be given to developing a field manager or "champion" that can take the lead in the Utility's efforts in developing a sustainable sewer evaluation practice. It is also recommended that the Utility consider and implement a proactive training cycle to keep all of the Utility apprised of enhancements in sewer evaluation techniques and technology.

MAPPING

This scope includes developing digital maps for the Utility. It starts by working with the Utility to develop a naming protocol and then collecting survey data. This can be done by RJN or the Utility.

ASSET MANAGEMENT

This scope is for developing a long term asset management plan that can be used by the Utility for both water and sewer assets. It is designed to develop the foundation of an asset management plan first and then proceed, as resources allow, into condition assessment and then proactive, predictive care of the Utility's assets. The assessments can be done by RJN or the Utility.

Conclusion

I would appreciate a chance to meet with you to further discuss these scopes. Would you be available for lunch or dinner one day during the Arkansas Water show in Hot Springs?

I am working on budget pricing for the training scope. I hope to have that to you in a few days. I'll also compile a list of references as requested.

Thanks,



CERTIFIED MAIL®



Forrest City Water Utility
303 N. Rosser/P.O. Box 816
Forrest City, AR 72336



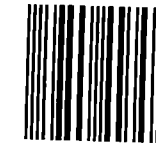
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ADEQ
Steven L. Henderson
District 6 Field Inspector
Water Division
5301 Noershore Drive North Little Rock,
AR 72118-5317



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Forrest City, AR 72336



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ADEQ
Layne Pemberton
Enforcement Analyst
ADEQ Water Division
5301 Northshore Drive
North Little Rock, AR 72118



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