

February 5, 2016

Parnell Vann, Mayor City of Magnolia - Big Creek WWTP P.O. Box 666 Magnolia, AR 71753

RE: Big Creek WWTP Inspection (Columbia Co)

AFIN: 14-00059 NPDES Permit No.: AR0043613

Dear Mayor Vann:

On January 12, 2016, I performed a Compliance Evaluation Inspection of the above-referenced facility in accordance with the provisions of the Federal Clean Water Act, the Arkansas Water and Air Pollution Control Act, and the regulations promulgated thereunder. A copy of the inspection report is enclosed for your records.

Please refer to the "Summary of Findings" section of the attached inspection report 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 emailed to Water-Inspection-Report@adeq.state.ar.us. 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 February 19, 2016.

If I can be of any assistance, please contact me at youngm@adeq.state.ar.us or (501) 837-2073.

Sincerely,

Michael D. Young

District 8 Field Inspector

Water Division

WATER DIVISION INSPECTION REPORT AFIN: 14-00059 | PERMIT #: AR0043613 DATE: 1/12/2016 COUNTY: 14 Columbia PDS #: 088931 MEDIA: WN K A NDepartment of Environmental Quality GPS LAT: 33.266603 LONG: -93.265103 LOCATION: Entrance **FACILITY INFORMATION** INSPECTION INFORMATION FACILITY TYPE: INSPECTOR ID# **Big Creek WWTP** 101531 S - State 1 - Municipal LOCATION FACILITY EVALUATION RATING INSPECTION TYPE: 72 Colombia Road 300 1 - Unsatisfactory **Compliance Evaluation** DATE(S): ENTRY TIME: EXIT TIME PERMIT EFFECTIVE DATE: Magnolia, AR 71753 1/12/2016 09:00 13:15 12/31/2010 **RESPONSIBLE OFFICIAL** PERMIT EXPIRATION DATE: NAME: / TITLE 12/31/2015 Parnell Vann / Mayor FAYETTEVILLE SHALE RELATED: N City of Magnolia - Big Creek WWTP FAYETTEVILLE SHALE VIOLATIONS: N MAILING ADDRESS **INSPECTION PARTICIPANTS** P.O. Box 666 NAME/TITLE/PHONE/FAX/EMAIL/ET CITY, STATE, ZIP: Johnny Moore/Operator/870-234-2955 Magnolia AR 71753 Russell Thomas/Superintendent/870-234-2955 PHONE & EXT: / FAX: 870-234-1375 1 parnellvan2010@yahoo.com CONTACTED DURING INSPECTION: No

	AREA EVALUATIONS					
	(S=S	atisfac	tory, M=Marginal, U=Unsatisfactory, N=Not Applicable/Eva	luated		
S	PERMIT	S	FLOW MEASUREMENT	Ν	STORMWATER	
S	RECORDS/REPORTS	S	LABORATORY	M	FACILITY SITE REVIEW	
М	OPERATION & MAINTENANCE	M	EFFLUENT/RECEIVING WATER	U	SELF-MONITORING PROGRAM	
S	SAMPLING	S	SLUDGE HANDLING/DISPOSAL	U	PRETREATMENT	
**	OTHER:					

SUMMARY OF FINDINGS

- 1.) The facility accepts filter backwash wastewater from Magnolia Municipal Water System (ARG640069). The facility never formally notified ADEQ of this addition to the facility. This is a violation of permit condition Part III. (D.) (1.). Filter backwash wastewater is not domestic waste and has the potential to significantly change the influent quality and has the likelihood to cause violations of effluent limitations (SEE GENERAL COMMENTS).
- 2.) ADEQ was not notified that filter backwash wastewater from Magnolia Municipal Water System was being accepted by the treatment plant with no pretreatment. It is the duty of the permittee to notify the Department of any substantial change in the volume or character of pollutants being introduced into the treatment plant by a source. This is a violation of permit condition Part II. (8.) (C.) (SEE GENERAL COMMENTS).
- 3.) The facility has a discharge that shall be limited and monitored by the permittee from a treatment system consisting of a design flow of 2.5 MGD. The facility has had multiple months in 2015 in which the discharge from Outfall 001 had a monthly average of greater than 5.0 MGD. This is a violation of permit condition Part IA. Flows greater than the facility design on a consistent basis will cause hydraulic overloads and the inability to adequately treat wastewater causing effluent violations such as those experienced by the facility (SEE **GENERAL COMMENTS).**
- 4.) The facility has not taken all reasonable steps to minimize or prevent any discharge that has a reasonable likelihood of adversely affecting the environment of the water receiving the discharge. BOD and TSS loading effluent violations are consistently in excess of 300% of what is allowed to be discharged by the facility. This is a violation of permit condition Part III. (B.) (3.).

- 5.) The facility is using Magnesium Hydroxide solution from a dosing machine that is administered directly after grit screening and prior to entering the oxidation ditch (see Photo 5). There is no record of a 180-day notice to the Department of the planned physical alteration and addition to the plant. This is a violation of permit condition Part III. (D.) (1.) (EE GENERAL COMMENTS).
- 6.) There was foam of persistent nature in the manmade conveyance directly downstream of Outfall 001 (see Photos 1-4). This is a violation of permit condition Part IA (SEE GENERAL COMMENTS).
- 7.) Best Management Practices (BMPs) are not being utilized around the Magnesium Hydroxide tank to prevent spills and leaks (see Photo 5). This is a violation of permit condition Part II. (6.)
- 8.) The equalization basin has sludge in the southeast corner that is becoming vegetated and indicates that sludge depth may be excessive. This is a violation of permit condition Part III. (1.) (A.). The facility utilizes a 25-acre equalization basin that has never had the sludge measured or dredged (SEE GENERAL COMMENTS).
- 9.) Reporting of monitoring results on DMRs is being competed incorrectly. This is a violation of permit condition Part III. (C.) (5.). The facility is reporting the wrong number of excursions on their monthly DMRs. According to ADEQ's instructions for completing DMRs:
- "The column labeled NO. EX. indicates the number of times the maximum, minimum or 7-day average limit of a parameter is exceeded during a reporting period. This column is not used to indicate violations of the monthly average limits. Thus, the number of times an analysis shows an amount in excess of maximum, minimum or 7-day average limit in your permit it should be counted toward the number you indicate in the column NO. EX. If no maximum, minimum or 7-day average limit were exceeded, then place a zero in that column, even if an average limit is exceeded. (Note, in reporting pH both lows and highs must be counted. Also, a noncompliance report will be required even if only an average limit is exceeded.)"

GENERAL COMMENTS

Big Creek WWTP received a Consent Administrative Order (CAO) on December 15, 2015 for effluent violations and Sanitary Sewer Overflows (SSO). The inspection on January 12, 2016 identified several compliance issues that may be attributing to inadequate treatment and effluent violations. Big Creek WWTP is a once/week sample frequency for most of the parameters in Part IA of the permit. The frequency of violations for once/week sampling warrants a more detailed account of the effluent quality. It is a recommendation from the inspector that ADEQ increase the sampling frequency to collect additional effluent quality information prior to the renewal of the facility's permit. The frequency of water being discharged that is not meeting effluent limitations and the effect on the receiving stream is much greater than the information that is provided through once/week sampling.

Effluent Violations/Water Treatment Plant Filter Backwash:

The facility has had seventy (70) effluent violations from August 2012 to November 2015. In 2015, there were an excessive amount of effluent violations for BOD, Ammonia Nitrogen, and TSS. The facility has made an effort to identify what is causing the effluent violations and stated that the only practice they are unsure of causing issues in the WWTP is accepting the filter backwash wastewater from the Magnolia Municipal Water System (ARG640069). The facility did not inform ADEQ of the acceptance of filter backwash wastewater. The filter backwash wastewater is not domestic waste and the water treatment plant is permitted by ADEQ; therefore, meeting the 301 and 306 sections of the CWA. The potential for pollution and impaired influent quality is increased by accepting the filter backwash wastewater and may affect the activated sludge plant by causing slug loads of organics and other materials from the water treatment process. The drinking water source for the water treatment plant is Lake Columbia, which is a shallow manmade reservoir. The facility needs to assess the impact of accepting the filter backwash wastewater and decide if the system is capable of treating the waste properly. There are indications that the filter backwash wastewater may have toxic properties on the microorganisms in the oxidation ditch. The facility has the capability to run microtox scans and has information of a Priority Pollutant Scan (PPS) completed on the influent coming from the water treatment plant.

Flow:

The facility has a flow design of 2.5 MGD. During the inspection, the facility was discharging 3.5 MGD. An examination of flow records and DMRs indicate that this facility routinely discharges water that can be in excess of 300% of what the design flow is (some months average 6 MGD). The surplus of water that is coming into the WWTP may have an impact on treatment process by affecting the detention time in the oxidation ditch and not allowing for the microorganisms to adequately process the waste. The facility needs to assess the conditions that are causing the consistent increases in flow. The most recent permit renewal received by the Department listed the highest monthly average flow for the last two (2) years as 3.463 MGD. The DMR for April 2015 documented an average monthly flow of 3.959 MGD. I did not examine all the DMRs at the facility for 2015, but the spot check indicates that the facility submitted the wrong information for the highest average flow in the past two (2) years.

Foam:

Big Creek WWTP is using the addition of Magnesium Hydroxide slurry following grit removal to adjust the pH of the influent prior to entering the oxidation ditch. The addition of this chemical additive to the treatment process was not properly notified to the Department per condition Part III. (D.) (1.). The use of this chemical additive may also be causing persistent foam in the receiving ditch of Outfall 001. The facility needs to take steps to identify the cause of the foam and eliminate the persistent foam in the receiving waters after receiving approval from the Department to use the chemical additive.

Sludge Depth in Equalization Basin:

During the inspection, I observed that the 25-acre stabilization basin has sludge exposed in the southeast corner and there is vegetation developing on a large area. Sludge depth has not been measured and sludge has never been removed from the equalization basin according to the plant superintendent. The plant is experiencing excessive flows as well as numerous effluent violations. It is necessary that the facility take all preventative actions to eliminate effluent violations, and the equalization basin may not be functioning appropriately if sludge depth is excessive.

Milas	
INSPECTOR'S SIGNATURE: Michael Young	DATE: 1/15/2016
Kerri McCaly	
SUPERVISOR'S SIGNATURE:Kerri McCabe	DATE: 2/4/2016

SECTION A: PERMIT VERIFICATION	
PERMIT SATISFACTORILY ADDRESSES OBSERVATIONS	⊠S □M □U □NA □NE
DETAILS:	
1. CORRECT NAME AND MAILING ADDRESS OF PERMITTEE:	⊠y □n □na □ne
2. NOTIFICATION GIVEN TO EPA/STATE OF NEW DIFFERENT OR INCREASED DISCHARGES:	□Y ☑N □NA □NE
3. NUMBER AND LOCATION OF DISCHARGE POINTS AS DESCRIBED IN PERMIT:	⊠y □n □na □ne
4. ALL DISCHARGES ARE PERMITTED:	⊠y □n □na □ne
SECTION B: RECORDKEEPING AND REPORTING EVALUATION	
RECORDS AND REPORTS MAINTAINED AS REQUIRED BY PERMIT	☑S □M □U □NA □NE
DETAILS:	
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:	Øs □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 ØM □U □NA □NE
DETAILS:	
1. TREATMENT UNITS PROPERLY OPERATED:	⊠s □m □u □na □ne
2. TREATMENT UNITS PROPERLY MAINTAINED:	☑S ☐M ☐U ☐NA ☐NE
3. STANDBY POWER OR OTHER EQUIVALENT PROVIDED:	☑S ☐M ☐U ☐NA ☐NE
4. ADEQUATE ALARM SYSTEM FOR POWER OR EQUIPMENT FAILURES AVAILABLE:	☑S ☐M ☐U ☐NA ☐NE
5. ALL NEEDED TREATMENT UNITS IN SERVICE:	☑S ☐M ☐U ☐NA ☐NE
6. ADEQUATE NUMBER OF QUALIFIED OPERATORS PROVIDED:	□S ☑M □U □NA □NE
7. SPARE PARTS AND SUPPLIES INVENTORY MAINTAINED:	☑S ☐M ☐U ☐NA ☐NE
8. OPERATION AND MAINTENANCE MANUAL AVAILABLE:	☑Y □N □NA □NE
9. STANDARD OPERATING PROCEDURES AND SCHEDULES ESTABLISHED:	☑Y □N □NA □NE
10. PROCEDURES FOR EMERGENCY TREATMENT CONTROL ESTABLISHED: Equalization basin has low storage capacity.	□y ☑n □na □ne
11. HAVE BYPASSES/OVERFLOWS OCCURRED AT THE PLANT OR IN THE COLLECTION SYSTEM IN THE LAST YEAR:	⊠y □n □na □ne
12. IF SO, HAS THE REGULATORY AGENCY BEEN NOTIFIED:	☑Y □N □NA □NE
13. HAS CORRECTIVE ACTION BEEN TAKEN TO PREVENT ADDITIONAL BYPASSES/OVERFLOWS:	☑Y □N □NA □NE
14. HAVE ANY HYDRAULIC OVERLOADS OCCURRED AT THE TREATMENT PLANT:	☑Y □N □NA □NE
15. IF SO, DID PERMIT VIOLATIONS OCCUR AS A RESULT:	□y □n □na ☑ne

SECTION D: SAMPLING	
PERMITTEE SAMPLING MEETS PERMIT REQUIREMENTS	☑S □M □U □NA □NE
DETAILS:	E3 LIM LO LINA LINE
	ØY □N □NA □NE
2. LOCATIONS ADEQUATE FOR REPRESENTATIVE SAMPLES:	ØY □N □NA □NE
3. FLOW PROPORTIONED SAMPLES OBTAINED WHEN REQUIRED BY PERMIT:	ØY □N □NA □NE
4. SAMPLING AND ANALYSES COMPLETED ON PARAMETERS SPECIFIED IN PERMIT:	ØY □N □NA □NE
5. SAMPLING AND ANALYSES PERFORMED AT FREQUENCY SPECIFIED IN PERMIT:	ØY □N □NA □NE
6. SAMPLE COLLECTION PROCEDURES ADEQUATE:	Øy □n □na □ne
a. SAMPLES REFRIGERATED DURING COMPOSITING:	ØY □N □NA □NE
b. PROPER PRESERVATION TECHNIQUES USED:	✓Y □N □NA □NE
c. CONTAINERS AND SAMPLE HOLDING TIMES CONFORM TO 40 CFR 136:	ØY □N □NA □NE
7. IF MONITORING IS PERFORMED MORE OFTEN THAN REQUIRED ARE RESULTS REPORTED ON THE DMR:	□y □n ☑na □ne
SECTION E: FLOW MEASUREMENT	
PERMITTEE FLOW MEASUREMENT MEETS PERMIT REQUIREMENTS	☑S □M □U □NA □NE
DETAILS:	
1. PRIMARY FLOW MEASUREMENT DEVICE PROPERLY INSTALLED AND MAINTAINED: TYPE OF DEVICE: 18" Parshal	
2. FLOW MEASURED AT EACH OUTFALL AS REQUIRED:	⊠y □n □na □ne
3. SECONDARY INSTRUMENTS (TOTALIZERS, RECORDERS, ETC.) PROPERLY OPERATED AND MAINTAINED: Totalizer	☑Y □N □NA □NE
4. CALIBRATION FREQUENCY ADEQUATE:	☑Y □N □NA □NE
5. RECORDS MAINTAINED OF CALIBRATION PROCEDURES:	☑y □n □na □ne
6. CALIBRATION CHECKS DONE TO ASSURE CONTINUED COMPLIANCE:	☑Y □N □NA □NE
7. FLOW ENTERING DEVICE WELL DISTRIBUTED ACROSS THE CHANNEL AND FREE OF TURBULENCE:	⊠y □n □na □ne
8. FLOW MEASUREMENT EQUIPMENT ADEQUATE TO HANDLE EXPECTED RANGE OF FLOW RATES:	⊠y □n □na □ne
9. HEAD MEASURED AT PROPER LOCATION:	☑y □n □na □ne
SECTION F: LABORATORY	
PERMITTEE LABORATORY PROCEDURES MEET PERMIT REQUIREMENTS	☑S □M □U □NA □NE
DETAILS:	
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: <u>Yes</u>	☑y □n □na □ne
a. LAB NAME: Ana-Lab/Bio-Analytical	
b. LAB ADDRESS: P.O. Box 9000 Kilgore, TX 75663/ 3240 Spurgin Road Doyline, LA 71023	
c. PARAMETERS PERFORMED: <u>All/Biomonitoring</u>	
8. BIOMONITORING PROCEDURES ADEQUATE:	☑Y □N □NA □NE
a. PROPER ORGANISMS USED:	☑Y □N □NA □NE
b. PROPER DILUTION SERIES FOLLOWED:	☑Y □N □NA □NE
c. PROPER TEST METHODS AND DURATION:	☑Y □N □NA □NE
d. RETESTS AND/OR TRE PERFORMED AS REQUIRED:	☑Y □N □NA □NE

CECTION C		· · · · · · · · · · · · · · · · · · ·			9, Pellill #. ARU	043013			
	SECTION G: EFFLUENT/RECEIVING WATERS OBSERVATIONS BASED ON VISUAL OBSERVATIONS ONLY □S ☑M □U □NA □NE								
							U DNA DNE		
DETAILS:	DETAILS: Persistent and visible foam at Outfall 001 and in Big Creek (receiving stream)								
OUTFALL #:	OIL SHEEN	GREASE	TURBIDITY	VISIBLE FOAM	FLOATING SOLIDS	COLOR	OTHER		
001	N	N	N	Y	N	Colorless			
SECTION H	I: SLUDGE DIS	POSAL							
SLUDGE D	DISPOSAL ME	ETS PERMIT F	REQUIREMENT	ΓS		⊠s □m □	U □NA □NE		
DETAILS:	Thermoflyte dri	ier after fan bel	t dewaters slud	ge. Final produ	uct given to Magn	olia residents f	or soil		
amendmen	ts.								
1. SLUDGE M	IANAGEMENT ADEQU	ATE TO MAINTAIN EF	FLUENT QUALITY:			⊠s □m	□U □NA □NE		
2. SLUDGE R	ECORDS MAINTAINED	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):				
SECTION I:	SAMPLING IN	SPECTION PRO	CEDURES						
SAMPLE F	RESULTS WITH	HIN PERMIT R	EQUIREMENT	S			U ⊠NA □NE		
DETAILS:									
1. SAMPLES	OBTAINED THIS INSPE	ECTION:				□Y	□n ☑na □ne		
2. TYPE OF S	2. TYPE OF SAMPLE: GRAB: GCOMPOSITE: METHOD: FREQUENCY:								
3. SAMPLES									
4. FLOW PRO									
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 PROCEDUI	RES EMPLOYED:				□Y	□N ☑NA □NE		
9. SAMPLES	COLLECTED IN ACCO	RDANCE WITH PERM	IT:				□N ☑NA □NE		
SECTION J	: STORM WATE	ER POLLUTION	PREVENTION	PLAN					
	ATER MANAG						U □NA ☑NE		
DETAILS:	711211111111111111		0 : 2 : (<u> </u>					
	PDATED AS NEEDED:_	DATE OF LAST UP	DATE:			Пү	□N □NA ☑NE		
	INCLUDING ALL DISCH						□N □NA ☑NE		
	N PREVENTION TEAM		-				□N □NA ☑NE		
	N PREVENTION TEAM		·				□N □NA ☑NE		
	OTENTIAL POLLUTANT		•				□N □NA ☑NE		
	OTENTIAL FOLLOTANI) LEAKS:				□N □NA ☑NE		
	STORM WATER DISCH						ON ONA MINE		
		ANGEO ANE AUTHOR	<u></u>				□N □NA ☑NE		
	RUCTURAL BMPS:	ne.							
	ON-STRUCTURAL BMF						ON ONA MINE		
	PERLY OPERATED AN						□N □NA ☑NE		
11. INSPECTIO	ONS CONDUCTED AS I	KEQUIRED:				⊔Y	□N □NA ☑NE		

	FLOW CALCULATION SHEET						
Doto: 1	12 2016	Time: 12.19					
Date: 1	-12-2016	Time: 12:18					
			1				
Head in I	nches:	Feet: 0.93					
Type & S	ize of Primary Flo	ow Measurement Device	: 18" Pa	rshall Flume			
71							
Name of the	Madal of Casasala		\	Ciara ana Illudra Dan an an 200			
ivame & i	viodel of Seconda	ary Flow Measurement D	evice:	Siemens HydroRanger 200			
			1	-			
Date of la	st Calibration of	Secondary Flow Device:	4/15/	15			
Recorded	I Flow at Date & 7	Time Listed Above: 24	15 GPM	(Facility Flow Meter)			
Calculate	d Flow at Date &	Time Listed Above: 2	409 GP	М			
(Flow is calcu	liated using now charts	in: ISCO Open Channel Flow Mea	asurement	Handbook-5 Edition)			
	December 1/o	Lua Calaulatad Valu					
% Error =		lue - Calculated Valu	<u>le</u> Х 1	00			
70 LITOI -	Ca	alculated Value					
			'				
	2415	- 2409					
% Error =	:	2409	<u> </u>	00			
		2409					
% Error =	. 6	X 100					
/6 LIIOI –	2409						
% Error =	0.002	X 100					
70 LIIOI -	0.002	X 100					
0/ [0.0	0/					
% Error =	0.2	%					
Comments: Totalizer is very accurate. During the inspection, the plant was							
	discharging 3.5 MGD. This flow is 1 MGD higher than the design of						
		nt plant as according to					
	the treatile	in plant as according to	o une ia				

DMR Calculation Check

01

27.63

27.63

15

To 2015

04

	Year	Month	Day	Year	Month	Day
Parameter Checked:	TSS					
	Loading			Concen	tration	
	Mass			Mont	hly	
	Mo. Avg Ibs/da	ay	Mo. Avg	mg/l	7-day Avg	j mg/l

If calculated value does not equal reported value, explain:

2015

936.5

936.5

313

From

Equal.

Reporting Period:

Reported Value:

Calculated Value:

Permit Value:

<u>Facility had effluent violations for Loading and Concentration.</u> The loading on the sampling event for April 28, 2015 was 1, 751.32 lbs/day which is 550% higher than what is allowed in the permit.

04

46.00

46.00

22.5

30

DMR Calculation Check

Reporting Period:	From	2015	11	01	_ To	2015	11	30
		Year	Month	Day		Year	Month	Day
Parameter Checked:		BOD	_					
		Loading				Concer	ntration	
		Mass				Mon	thly	
	Mo.	Avg Ibs/	day	Mo. A	vg ı	mg/l	7-day Avç	g mg/l
Reported Value:		337.34		2	22.80		17.8	35
Calculated Value:		337.24		2	22.80		17.8	35
Permit Value:		209			10		15	

If calculated value does not equal reported value, explain:

Equal.

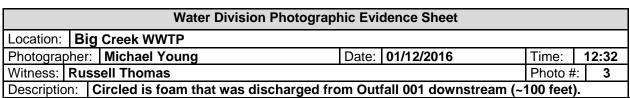
Water Division Photographic Evidence Sheet								
Location: B	ig Creek WWTP							
Photographe	Photographer: Michael Young Date: 01/12/2016 Time: 12:29							
Witness: Ru	Witness: Russell Thomas Photo #: 1							
Description:	Persistent form in manmade conveyance that discharges to Rig Creek from Outfall							



Photographer:Michael YoungDate:01/12/2016Time:12:29Witness:Russell ThomasPhoto #:2

Description: Persistent foam in manmade conveyance that discharges to Big Creek from Outfall 001.







Photographer:Michael YoungDate:01/12/2016Time:12:32Witness:Russell ThomasPhoto #:4



Inspection Report: Big Creek WWTP, AFIN: 14-00059, Permit #: AR0043613

Water Division Photographic Evidence Sheet							
Location:	Big	Creek WWTP					
Photographer:		Michael Young	Date:	01/12/2016	Time:	12:03	
Witness:	Witness: Russell Thomas; Johnny Moore Photo #: 3						
December		Tault and daalne nume far n		da Nata anilla a	marinal tambe		



From: Wastewater System Magnolia
To: Water-Inspection-Report

Subject: NPDES No. AR0043613 AFIN No. 14-00059 City of Magnolia Big- Creek WWTP

 Date:
 Wednesday, February 17, 2016 7:13:57 AM

 Attachments:
 Responselettermichealyoung2016.docx

Dear Sir,

Attached you find the City of Magnolia - Big Creek WWTP response to the inspections findings. If you have any problems with the attachments or have any questions, feel free in contacting me at 870-904-1694.

Thank you,

Russell Thomas City of Magnolia- Big Creek WWTP NPDES No. AR0043613 AFIN # 14-00059

CITY OF MAGNOLIA WASTEWATER SYSTEM

P.O. BOX 666

MAGNOLIA, ARKANSAS 71754-066

(870) 234-2955

mwws@sbcglobal.net

NPDES PERMIT No.- AR0043613

AFIN No.- 14-00059

RESPONSE TO SUMMARY OF FINDINGS

FROM ADEQ COMPLIANCE EVALUATION INSPECTION ON JANUARY 12, 2016

February 16, 2016

1.& 2.

On February 16, 2016 Mayor Parnell Vann, Robert Baxley(Magnolia Water) and myself met to discuss corrective measures to take concerning the Sludge from the Water treatment plant. We will have a better response after meeting with Andy Franks with A.L. engineering on February 18, 2016. *Note: The prior superintendent made the agreement to accept sludge from the water treatment plant sometime before 2003, I do not know if ADEQ was ever notified.*

- 3. This will be addressed with A.L. Franks when he forms a CAP for the proposed CAO.
- **4.** We will do everything possible to correct this situation.
- **5.** The Magnesium Hydroxide has been discontinued and we are waiting for the chemical company to remove their equipment. There is no magnesium Hydroxide on site. *Note: In 1988 the Department of Pollution & Control approved the plant design for chemical pumping to the Oxidation ditch. See exhibit 1-A & 1-B.*
- **6.** We feel confident that the foam was magnesium hydroxide residue.
- 7. Again the Magnesium Hydroxide has been discontinued and area has been cleaned up.



CITY OF MAGNOLIA WASTEWATER SYSTEM

P.O. BOX 666 MAGNOLIA, ARKANSAS 71754-066 (870) 234-2955

mwws@sbcglobal.net

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- **8**. This was addressed in the meeting with the Mayor on February 16, 2016. I am to find out from ADEQ what procedures most be followed to clean the southeast corner of the equalization pond. This also will be addressed with A.L. Franks Engineering.
- **9.** The reporting of excursions will be reported correctly from now on.

If you have any questions, feel free in calling me at 870-904-1694.

Thank you,

Russell W. Thomas
City of Magnolia – Big Creek WWTP

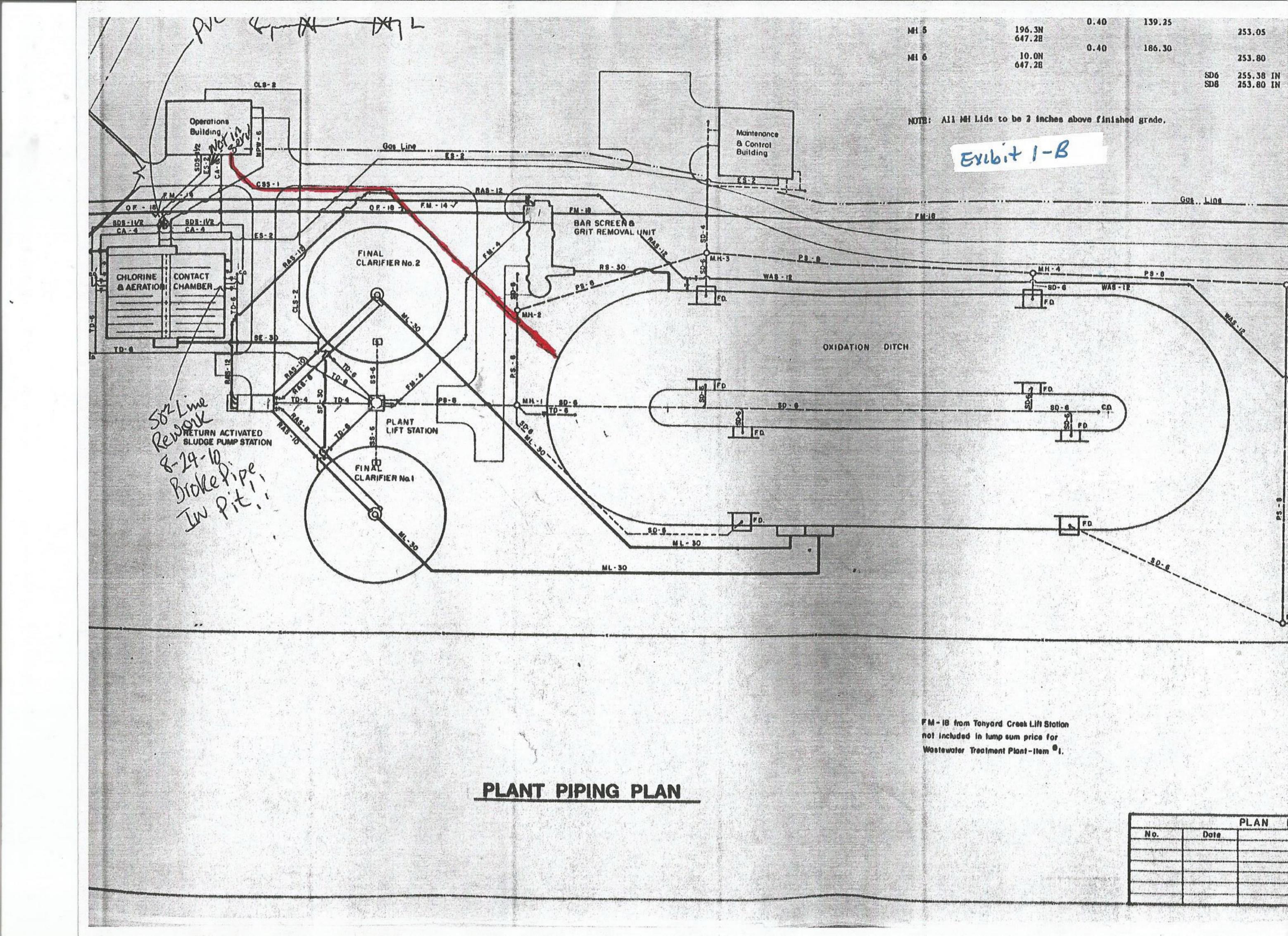
CITY OF MAGNOLIA WASTEWATER SYSTEM

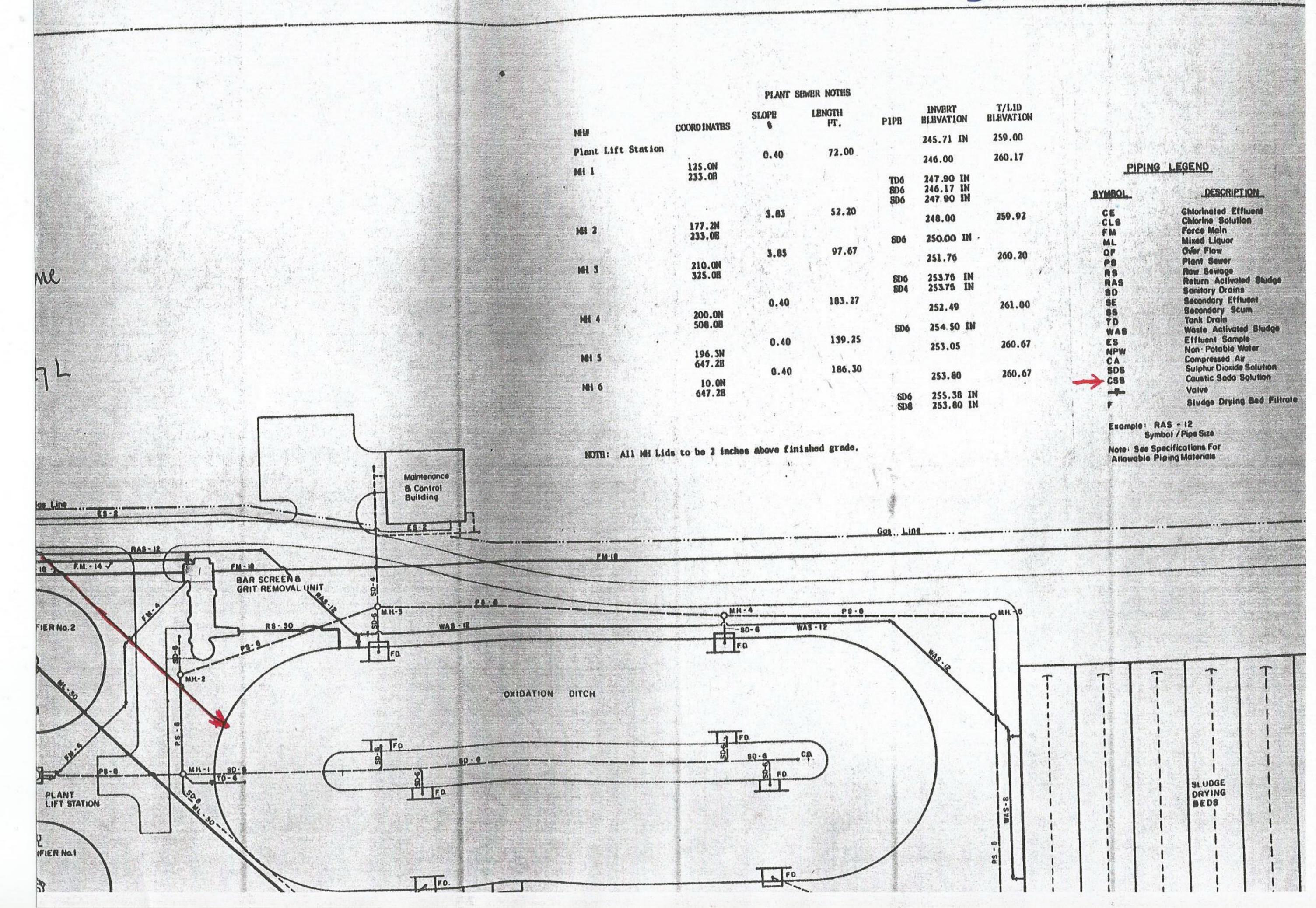
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March 15, 2016

Parnell Vann, Mayor City of Magnolia - Big Creek WWTP P.O. Box 666 Magnolia, AR 71753

RE: Response to Inspection (Columbia Co)

AFIN: 14-00059 NPDES Permit No.: AR0043613

Dear Mayor Vann:

I have reviewed the response pertaining to my January 12, 2016 inspection of the Big Creek WWTP. 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.

Additionally, be advised that the 1988 approval of the plant design, which indicates chemical dosing, does not preclude you from informing ADEQ Water Division Permits Branch from obtaining permission to change or alter plant design. Prior to using a chemical additive, you must inform ADEQ Water Division Permits Branch and obtain approval for that individual chemical additive (i.e., caustic, flocculent, algaecide, etc.).

If we need further information concerning these matters, we will contact you. Thank you for your attention to this matter. Should you have any questions, feel free to contact me at (501) 837-2073 or you may e-mail me at youngm@adeq.state.ar.us.

Sincerely,

Michael D. Young

District 8 Field Inspector

Water Division