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FORREST CITY WATER UTILITY

303 NORTH ROSSER ST.

FORREST CITY, ARKANSAS 72335

870-633-2921

JUNE 20, 2016

POST
JUN 24 2016
MARKED

RECEIVED
JUN 29 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.

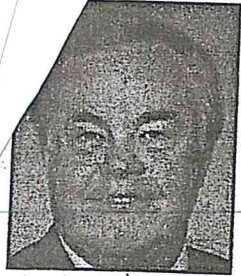
Sincerely,

Forrest City Water Utility

W.H. Calvin Murdock, Utility Manager

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

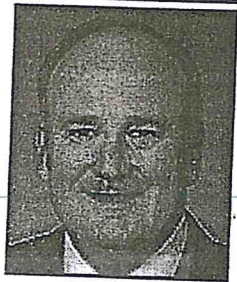
A handwritten signature in blue ink, appearing to read "W.H. Calvin Murdock", is written over the typed name.



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.

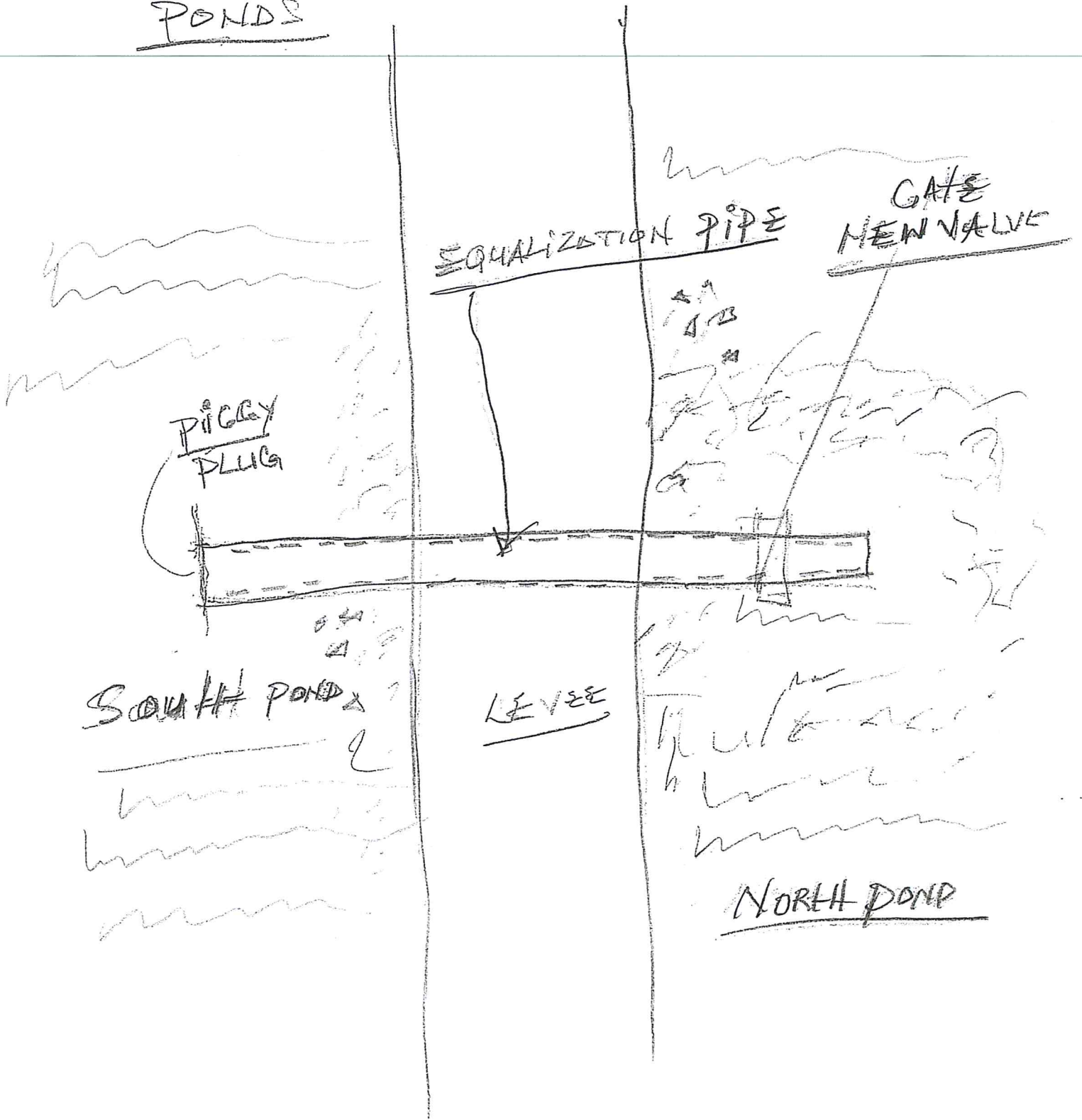
"I had someone ask if that was going to be included, so I thought I would ask before we had it included in any plans. The building will have a large foyer so people can have receptions and so forth, along with meeting rooms, but nothing as large as we have at the Civic Center," said Bryant.

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.

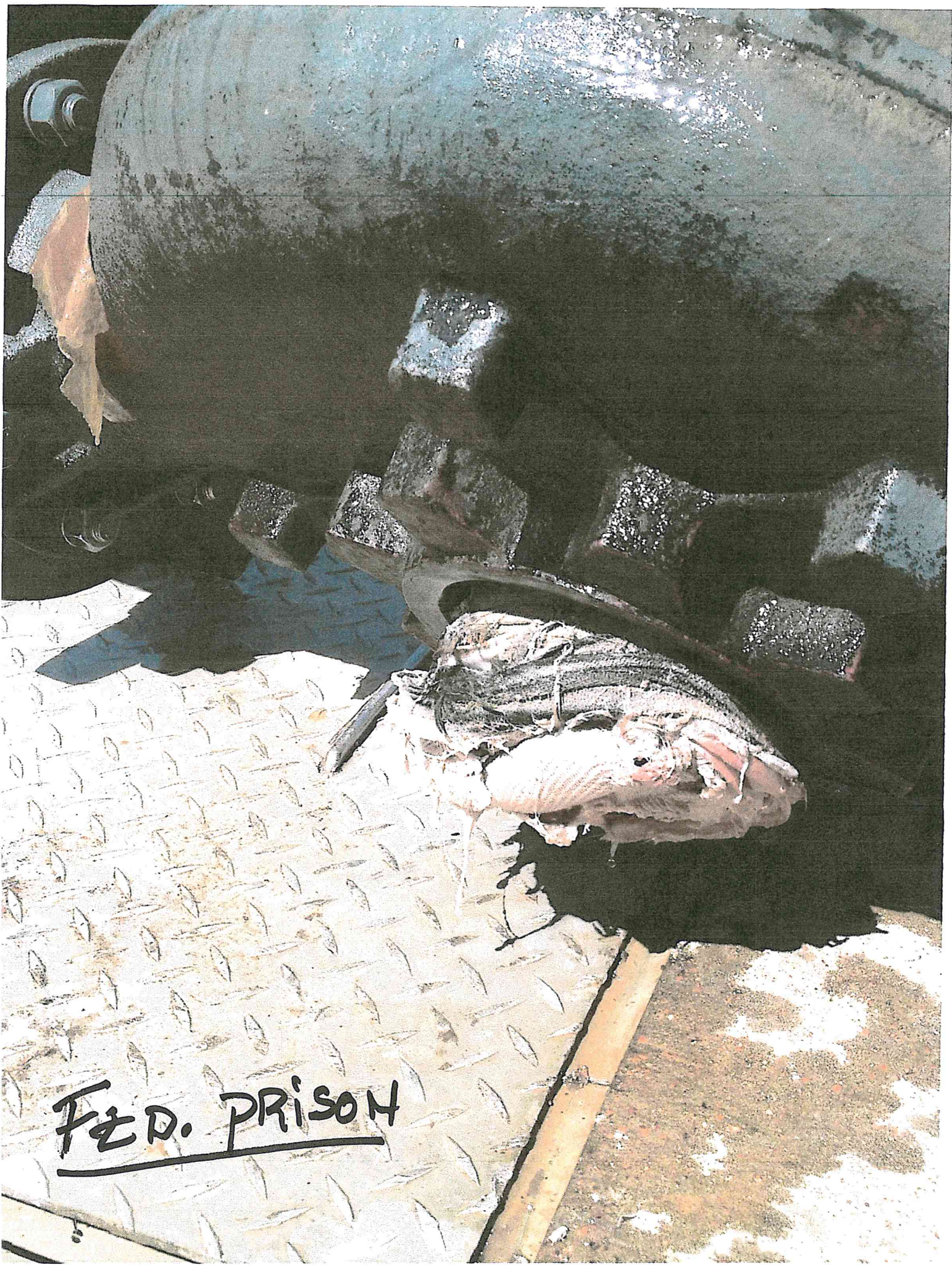
Calvin Murdock

TURNER PUMP STATION



TURNER PUMP STATION

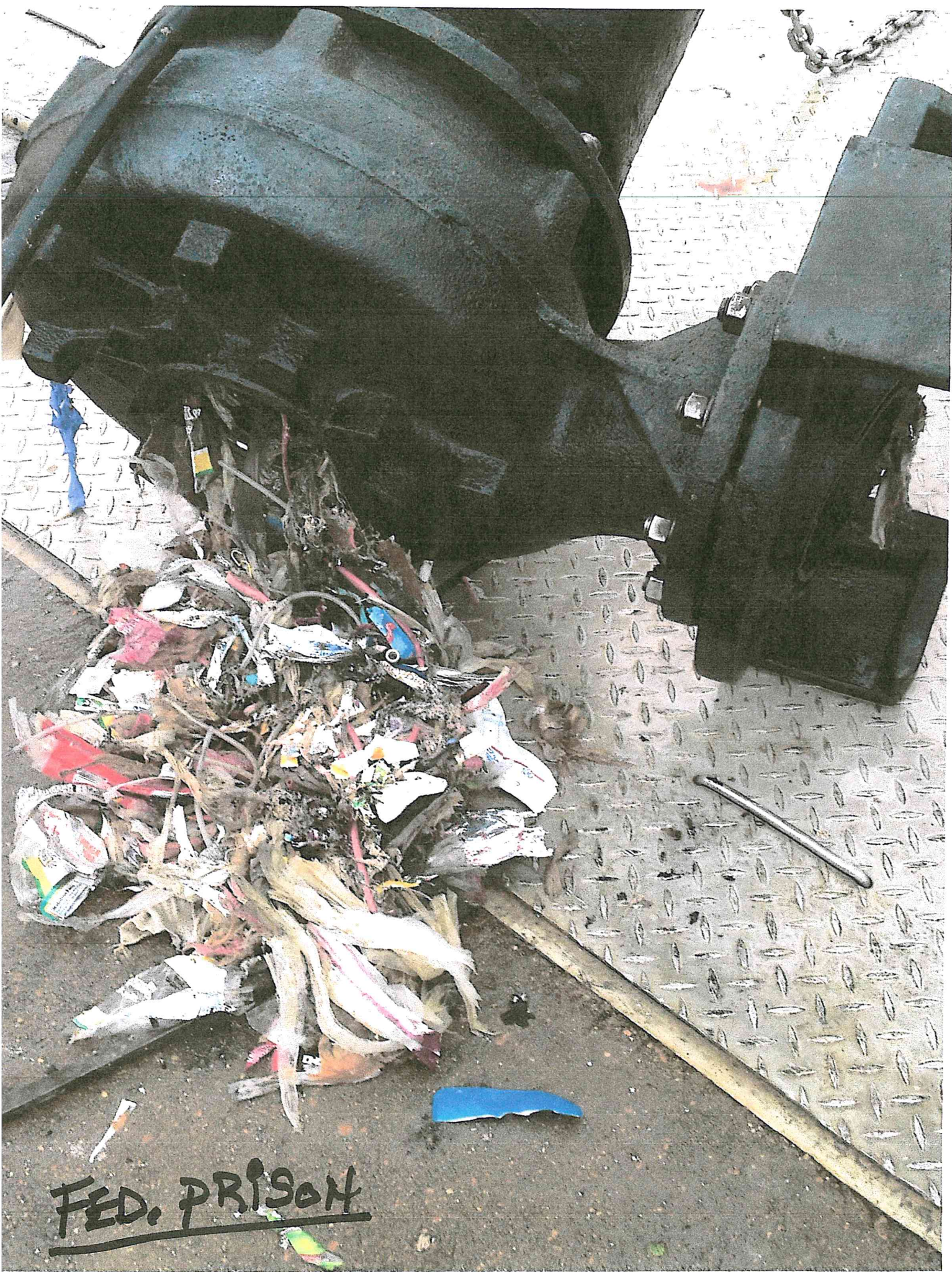




F&D. PRISON



FED PRISON



FED. PRISON



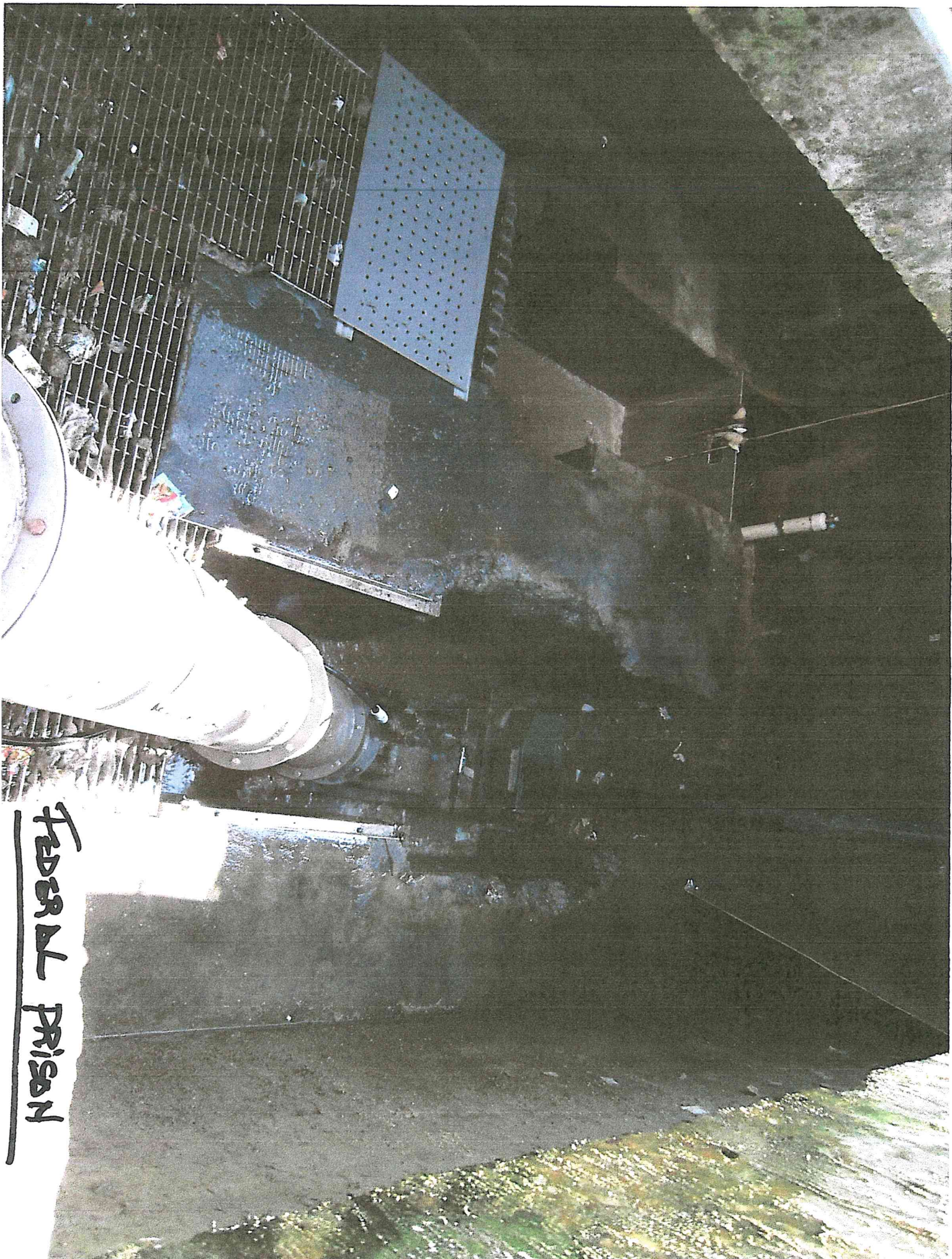
FED. PRISON



FED. PRISON

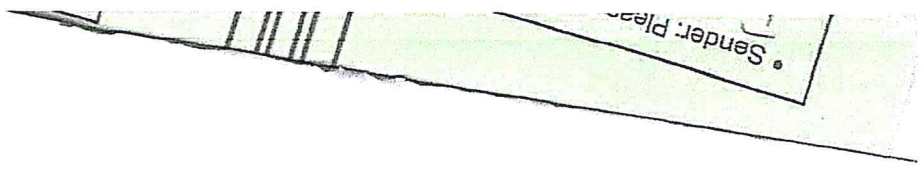
FEDERAL PRISON





FEDERAL PRISON

Mail
Mail
Mail of Priority Mail
- Mail for two years



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

REFORSE





[Download](#)

MAJOR WASHOUT ACCESS ROAD TO WELL FIELDS

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 need 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,

