AGENDA DRAINAGE DISTRICT 121 MEETING Wednesday, September 1, 2021 10:00 AM Large Conference Room This meeting will be held electronically and in-person. To access the meeting call: 1-(312)-626-6799, when prompted enter meeting ID code: 820 7567 2007

You can also access the meeting online at:

https://us02web.zoom.us/j/82075672007

- 1. Open Meeting
- 2. Approve Agenda
- 3. Introductions/Attendance
- 4. DD 121 WO 295 Discuss W Possible Action Investigation Summary This informational meeting is to discuss the Investigation Summary findings of multiple issues and previous repair, CGA recommends replacement of 800' of tile with RCP, estimated costs are between \$40,000 to \$60,000. Landowner input and feedback is requested to discuss options and/or see if there is interest in this district project or repair to address these issues.

Documents:

DD 121 WO 295 - 6934.1 - INVESTIGATION SUMMARY 07_19_21.PDF

- 5. Comments/Discussion
- 6. Possible Action
- 7. Other Business
- 8. Adjourn Meeting

Drainage District:

#121

Investigation Summary:

- Due to the recommendations of the previous Investigation Summary, further investigation into the condition of the Main tile was pursued in the SW¼ SE¼ Section 30, Township 86 North, Range 20 West.
- Beginning with the blowout/sinkhole in the grassed swale, conducted exploratory excavations in the upstream and downstream directions to determine the general condition of the Main tile in this area. The initial excavation found a 15-inch single wall HDPE tile (downstream side) connected to a collapsed 14-inch clay tile that was backing up water into the upstream 15-inch rusty CMP tile. In this excavation, there was little to no cover over the Main tile.
- Excavating at a blowout/sinkhole further upstream found the 14-inch VCP to be fully plugged with tree roots, and further upstream found a 15-inch single wall HDPE tile. Upstream of that, the 14-inch VCP tile was found to be in round with greater soil cover.
- Conducted two exploratory excavations in the downstream direction and found the 15-inch VCP tile to be round with greater soil cover.

Contractor Time and Materials (spent while CGA was on-site):

See attached Tabulated Contractor Time and Materials Sheet.

Additional Actions Recommended:

With the poor physical condition of the tile, lack of soil cover, and multiple previous repairs that have taken place in the past, CGA recommends the Main tile be replaced between the excavations that showed the Main to be in adequate condition. Such a repair would correct the multiple issues found, repair the existing blowouts, and prevent the occurrence of more (given the tile has been repaired multiple times already). It is our opinion that this repair would consist of replacing approximately 800-feet of tile with RCP tile and would have a construction cost of approximately \$40K-60K.



Tabulated Contractor Time and Materials

Date	Totals	5/5/2021
Workman (hrs)	12	12
Mini Excavator (hrs)	6	6

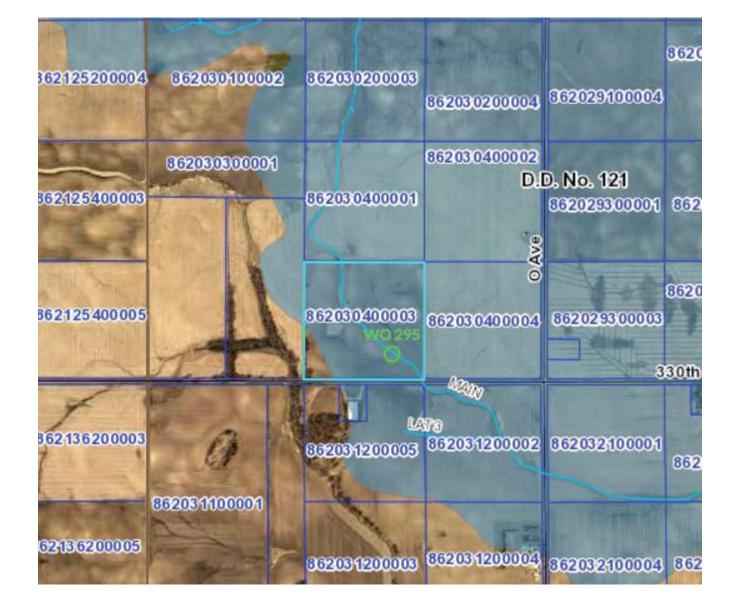


J:\6934.1-DD\04-Design-Project Management\Engineering Report\6934.1-Drainage Job Calcs



Drainage Work Order Request For Repair Hardin County

Date:	6/3/2020		
Work Order #:	WO00000295		
Drainage District:	DDs\DD 121 (51136)		
Sec-Twp-Rge:	30-86-20	Qtr Sec:	
Location/GIS:	86-20-30-400-003		
Requested By:	Tom Gilmore		
Contact Phone:	(515) 450-1942		
Contact Email:			
Landowner(if different):	George C Fagg Heirs		
Description: Repair labor, materia	the field on parcel #8		ed tile and water running across
Repaired By:			Date:
Please reference wo	rk order # and send st	atement for services to:	Hardin County Auditor's Office Attn: Drainage Clerk 1215 Edgington Ave, Suite 1 Eldora, IA 50627 Phone (641) 939-8111 Fax (641) 939-8245
For Office Use Only			
Approved:			Date:



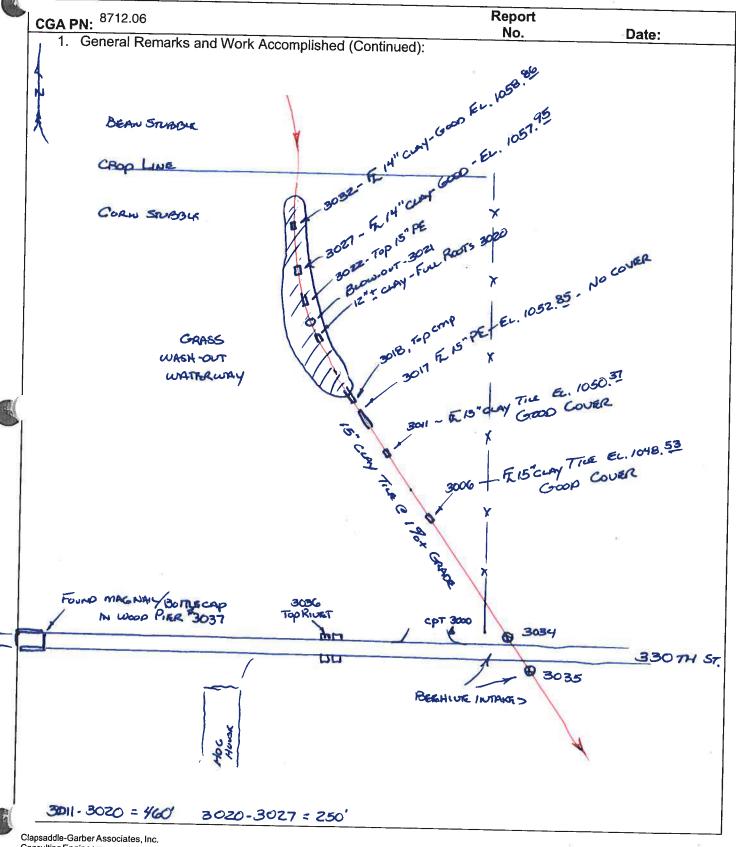
Project Diary

Project: DD 121 HARDIN			
CGA PN: 6934.1	Days	Report	Proj. Mgr. √
Contractor:	Charged:	No.	_
Superintendent:	Weather Conditions:	Date: 5/5/2	
·	in outlion o on unions.	Precip.:	Temp. Hi: ° Temp. Low: °
NSPECTOR:	Contracto		remp. Low:
Time Arrived: 9:00 Time I	_eft 3:00 Time Arriv		Time Left 12:00 No
1. General Remarks and Work Acco	pmplished		
HRRIURD @ JOB	SITE 9:00; ADAM	AND HELPER	ON SITK
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10- 15"0		un upsiker	
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WITH 15" HOPE duar war.	NEED TO EAT (-20	00. T 00 -	
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R SHIFT ALIGNMENT TO NE	To GET MONTE COURT.	GISTING HALL	15 8' = 1% G
3. Test Samples Taken			
4. Visitors to Site:			
5. Other Work Crews or Project (utiliti	es. subcontractors. etc.) and	Nork Done:	
- 10			
6. Attachments (total sheets attached	()		
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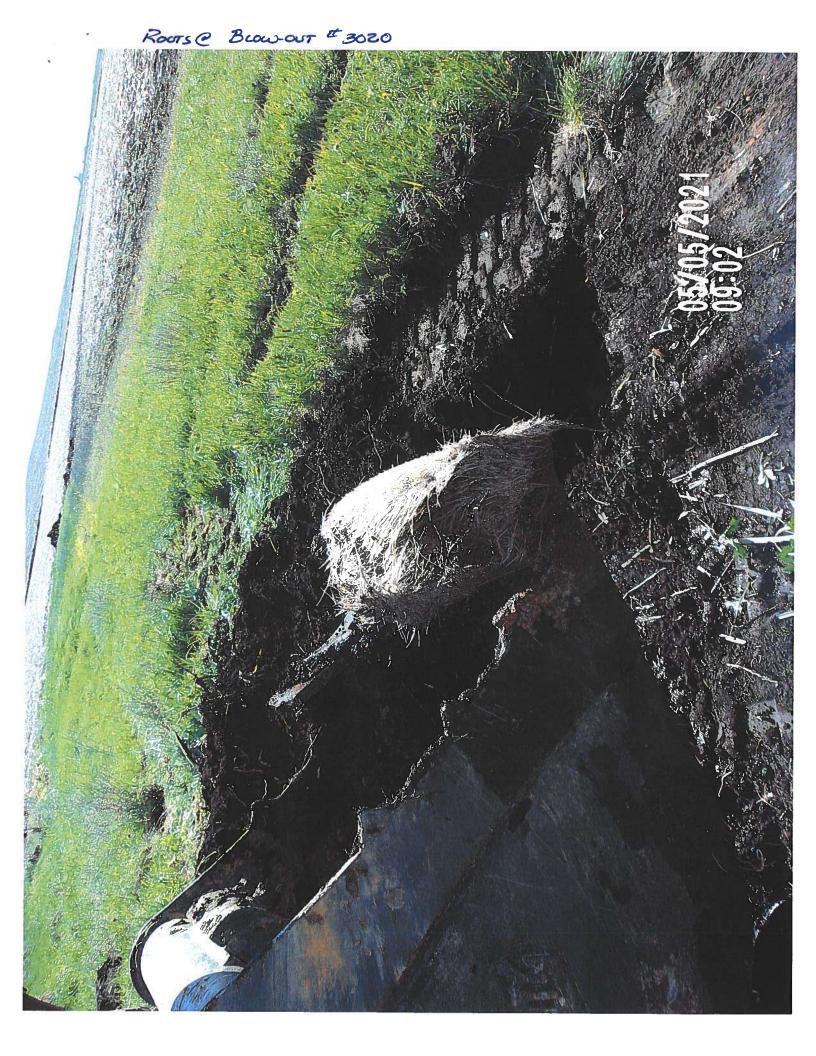
Clapsadole-Garber Associates Inc. Consulting Engineers P.O. Box 754 Marshalltown: IA 50158 Ву_____

Inspector Distribution: Project Mgr. (Original). Inspector (Copy) Form 9753

Inspector's Project Diary (continued)



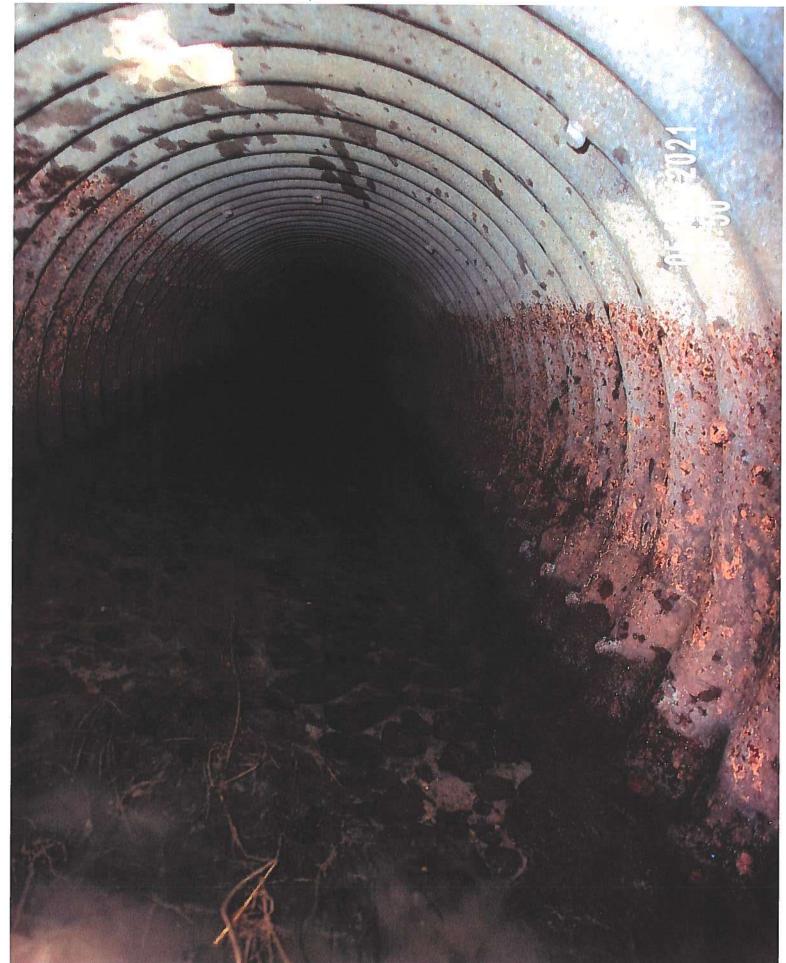
Consulting Engineers P.O. Box 754 Marshalltown, IA 50158

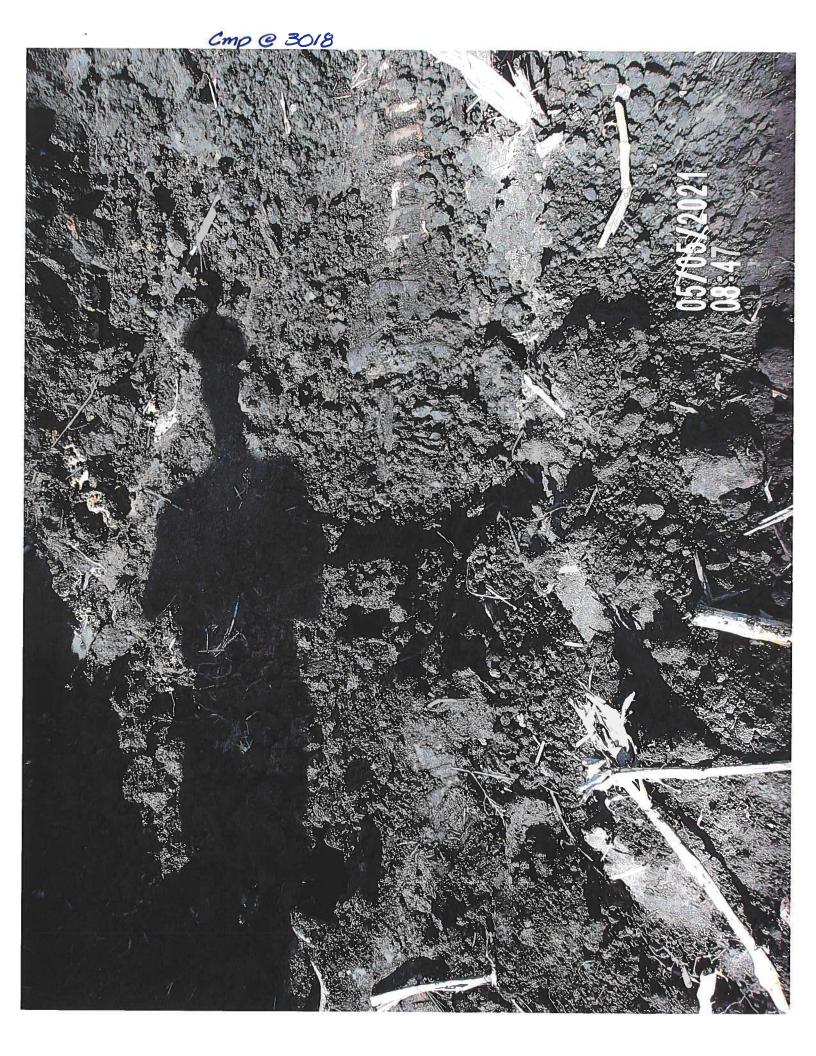


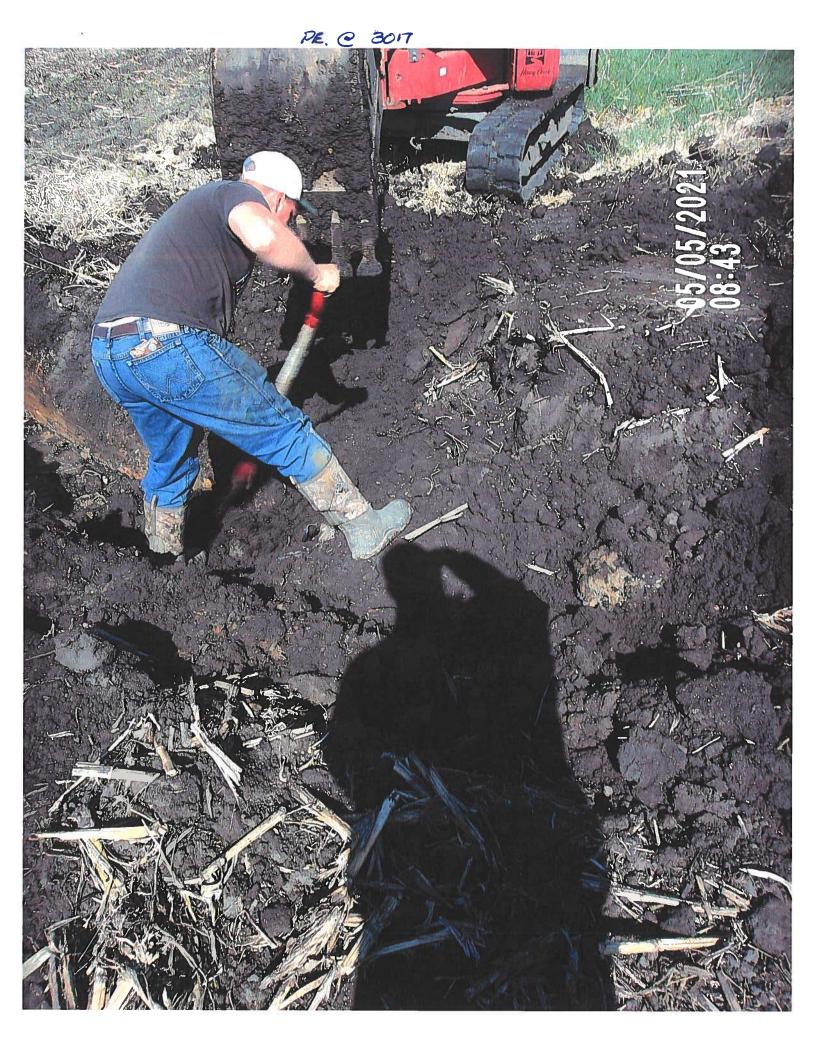
PE-CLAY COURPSE TO COMP @ 3017-3018

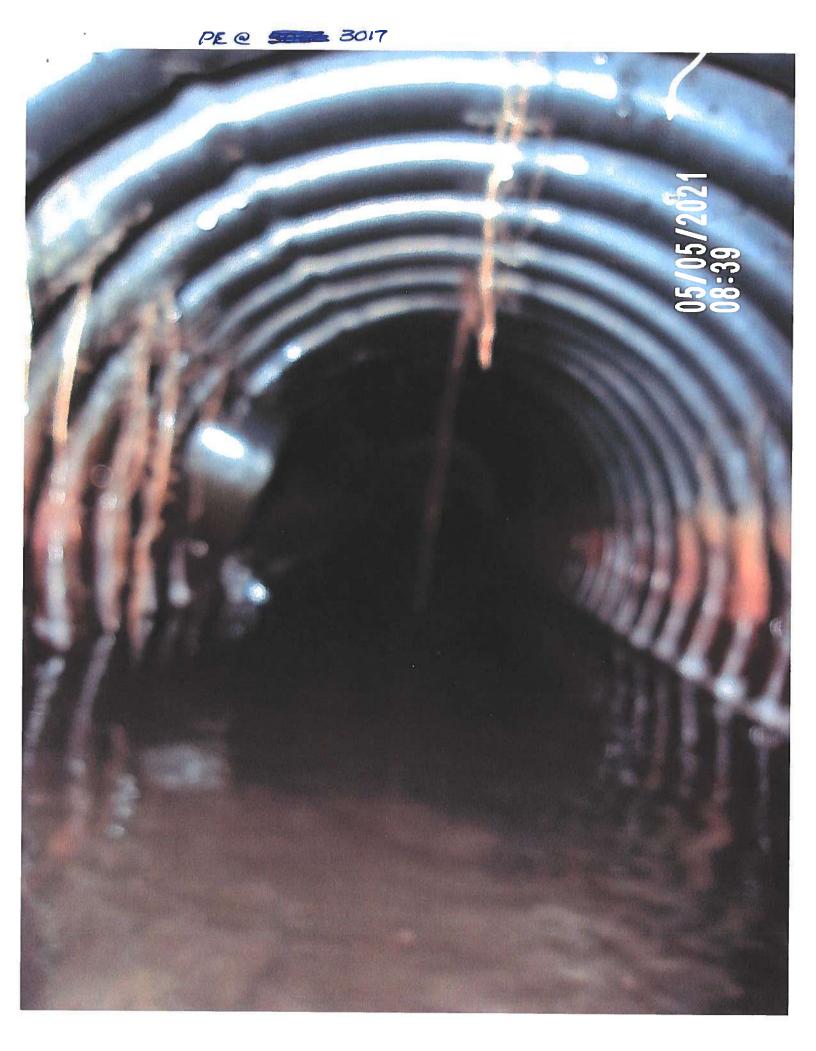


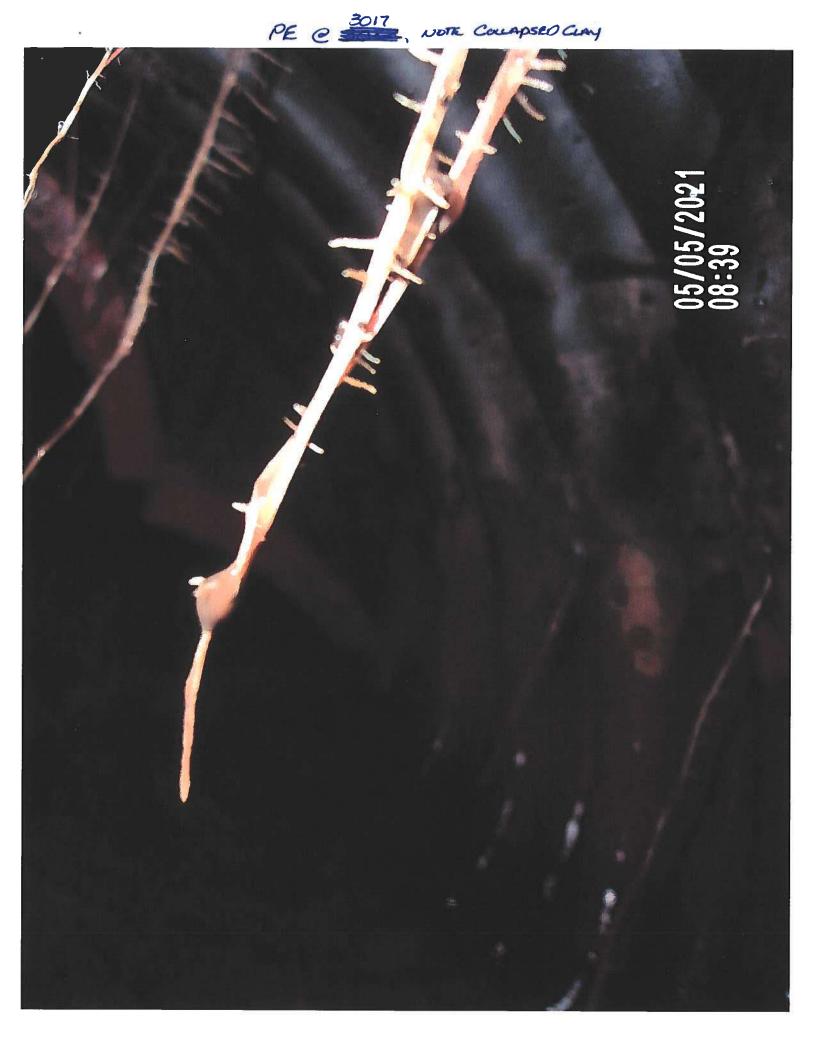
cmp @ 3018





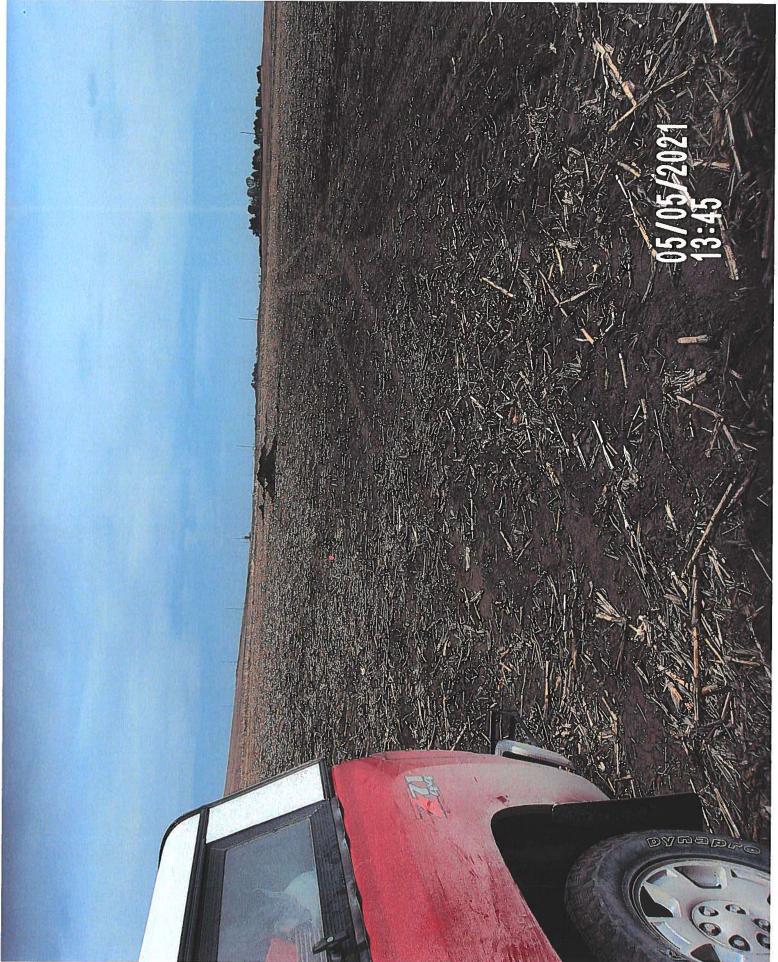


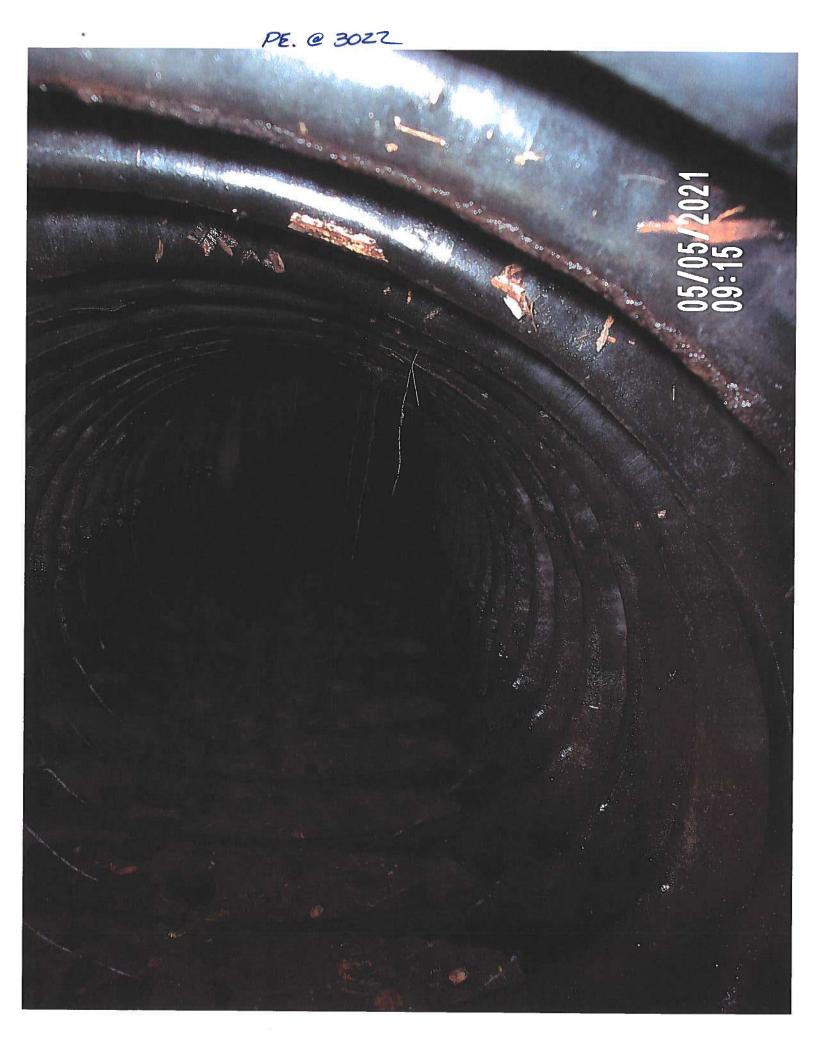






LOOKINC SouNSTREAM @ 3017









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