

Attachment No. 13

Testimonial to the South Dakota PUC

Who am I

My name is **Dana (Slaathaug) Bosma**. I am a concerned **Lincoln County landowner**. I am a graduate of Augustana University, retired teacher, and mother of four. As an Environmental and Earth Science educator, **I oppose the state granting Navigator permission to build this CO2 pipeline.** I am concerned that Navigator has **NO previous experience** in either building or management of hazardous CO2 pipelines and I am very concerned with **the lack of PHMSA regulations.**

Why are our elected officials, our so called "servants of the people", neither representing landowners' rights nor public safety? This project is unproven, a waste of tax payers' money and basically land theft by a foreign-funded, for-profit private company which is being enabled by our government officials.

How long the land has been in my family, a little history of the land and its importance to me.

My family has a long history in this area. My ancestors homesteaded in the Colton area just after the Civil War and have owned many properties in both Minnehaha and Lincoln County. In fact, both my **great-great grandfathers, J.C. Eldridge and Levi LeRoy Willard, served on the Minnehaha Board of Commissioners at the same time during the 1890s** and were instrumental in the development of roads both counties.

In 1981, my parents, Duwayne and Donna (Eldridge) Slaathaug purchased my parcel of land in Lincoln County along with two others to counteract weather conditions on the ranch in Stanley County. Prior to this since 1901, the property was owned by the Sherman family. We were told at the time of the sale that Walter Sherman **ALWAYS MADE A PROFIT** on this land and that the **WATER FROM THE WELL in the middle of the property** located at the head of a **WATER PROTECTION AREA (Navigator map A5 #1)** was so pure that it was **SOLD FOR DRINKING WATER to neighbors** in the area. My brother Alfred Slaathaug, now living in Brandon, farmed and raised livestock on the property sometimes wintering ranch cattle there. The farmstead house along with 10 acres, is still there owned and lived in by my sister-in-law, Gail Tallaksen.

This was my inheritance so that I could move home. My entire extended family lives in the South Dakota. We all attended Augustana University. My husband's family lives in the Aberdeen area. South Dakota is home to us and with children on both Coasts and one in Sioux Falls, South Dakota is halfway in between.

Description of my property and land issues including building sites or improvements, and current uses of the property

My property consists of **127.53 acres** located five miles east of Lennox and one mile north along interstate 29 on the west in **Lincoln County** just off Exit 68 (**Navigator map #2**). There is a church and three acreage sites that are surveyed out of this quarter.

The predominant soil structure is Wentworth Silty Clay loam and Chancellor-Viborg silty Clay Loams with a 0-2% slopes. The Farm has a weighted **productivity index of 90.7** and is predominantly tillable.

Soil maps from both Lincoln County and Navigator's (**Navigator map A4 #3 &4**) show that my property is listed as **PRIME FARMLAND of STATEWIDE IMPORTANCE... high or moderately susceptible to rutting hazard compaction potential, and water erodibility**. It has a soil rating of **.904** among the highest in the state and sits on top of an aquifer.

The property has been tiled and retiled over the years to attain adequate drainage. It has no buildings at the moment, but I do have three building eligibilities and the adjacent property to the north is zoned commercial with two businesses located there.

The negative impacts and difficulties not only operationally and financially, but potentially safety wise as well that I have relative to my land's features as discussed above.

Navigator's proposed pipeline route basically cuts my property in half limiting not only crop yields, but also limiting any future development severely devaluating the property. Another access road will have to be built to cultivate two areas, tiling will have to be replaced and cultivation patterns will have to be modified to eliminate the need of crossing over the CO2 pipeline to prevent any damage caused by heavy equipment.

Water management is a problem on this property.

MY property is not only located on top of an aquifer with significant drainage on the east continuing down to Beaver Creek (**Lincoln County map of drainage #5**) but also there is significant drainage from a water source coming from the property north of mine requiring tiling. My property is very productive if the water issues are managed carefully.

Navigator's pipeline will cross tiling draining the field to the north of my property and continuing on through my property emptying into the creek at the north end of the grove. This is not my water but must be managed on my property. Breaks in the tiling became more common with the use of heavier equipment and constant vigilance is needed to make repairs.

New Drainage Issues (see Lincoln County Property map #5 for location and photographs of current erosion #6 & 7 taken 5/22/2023)

Currently **a new commercial business with a warehouse being built on the property to the north** of mine on the south east corner since Navigator made their maps. There is concern that **the project is not taking into consideration how the water will drain out of that property.** Right now, there is a **pool of water.** The drainage seems to be going to the road ditch at the southeast corner of that property which would direct the **drainage south along the west side of the road and under the road through a culvert very near where the current map shows the Navigator pipeline crossing the road.** **The included photos #6 & #7, taken 5/22/2023,** show significant deep erosion already occurring along the road (see Lincoln County map #4 for the approximant location) uprooting trees. The location characteristics are very similar to that of the Satartia, MS, accident (photo #8).

A break in tiling on my property make matters worse. It will cause a bog that will make the area very unstable. **Farm equipment has been stuck in tile breaks here that sunk the machine up to its belly.** Navigator proposes running their CO2 pipeline across this delicate area which we have finally been able to manage. **The existing tile would have to be put back exactly as it is now.** It must have a continuous slope as any low spot will fill with dirt and plug the tile causing water to push to the surface and continue downhill making an unwanted gully.

Safety concerns

The majority of my field slopes gently to the south. **Any break anywhere in the CO2 pipeline** on my property, depending on weather conditions, **would spread and move downhill to the south where people live to the south and southeast contaminating air, wind, and soil.** The aquifer under this property drifts southwards through my sister-in-law's property into Beaver Creek. According to Navigator's own map (**Navigator map A4 #9**), the proposed **setback comes within 1500 ft of my sister-in-law's house and others to the south east.**

I have three building eligibilities but, as you can see by looking at the maps, **any building site with road access puts me from 0 to 1400 ft from the proposed pipeline** as it does to the three acreages carved out of the south end of this section.

The property is relatively remote meaning that **any alert and response** to a breakage in the CO2 pipeline would take time which would require **anyone in the area to carry oxygen equipment and have electric vehicles.** **So far, first responders in the area say they are not coming.**

Future plans

My husband and I are planning to retire to this property. I have three building eligibilities. My daughter, an avid horsewoman who works at Dakota Large Animal Clinic in Harrisburg and I have planned to develop this property with two houses, barn, corrals and fields where our extended family can meet. Until that time, it will remain under cultivation.

In Conclusion

The PUC has an important opportunity to secure the future for landowners in Lincoln County by opposing the Navigator application to build a CO2 pipeline that would have dire consequences for my property in Lincoln County. As elected representatives, you are in a unique position to **protect your constituents from a project that only benefits private, for-profit business interests at a cost to landowners that is hard to calculate.**

A yes vote for this project represents a betrayal of those of us who have worked to build family businesses based on agriculture and paid taxes that have built and sustained our communities for generations.

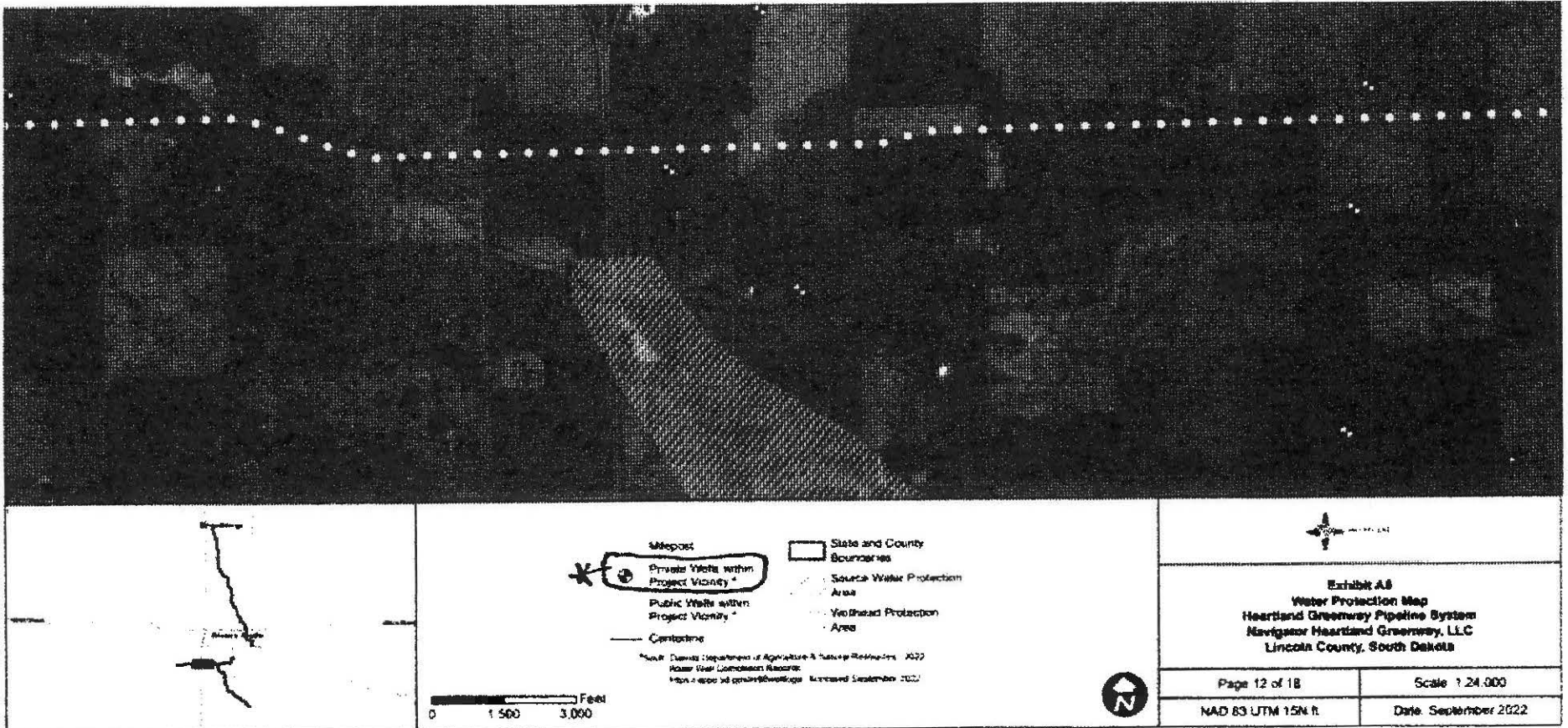
You can help us grow and improve our businesses by protecting the land and our communities by opposing CO2 pipeline applications for permits. **Don't turn your back on me and others in favor of what amounts to a land grab by private companies financed by our-of-state and foreign interests.**

Included materials

- #1. A5 Navigator Water Protection Map showing a private well and water protection area
- #2. Navigator map with proposed pipeline route
- #3 & #4. A4 Navigator Soils Map showing that my farmland is rated PRIME AND OF STATEWIDE IMPORTANCE that is high or moderately susceptible to rutting hazard, compaction potential, and water erodibility.
- #5. Lincoln County Property Map showing drainage to the east, proposed CO2 pipeline route, and circled erosion area in recently taken photos #5 & #6.
- #6 & #7. Erosion photos were taken 5/22/2023 of the drainage along the road east of my property. The approximate location of this erosion is circled on the Lincoln County map #4 along with its approximate location to the pipeline.
- #8. Photo of the Satartia, MS area affected by the CO2 explosion showing how similar the characteristics are to those along the road on the east side of my property.
- #9. A2 Navigator Areal Map Setback showing that the setback comes within 1500 ft of my family.
- #10. Lincoln County map showing my proposed pipeline route if it has to be on my property.

For many reasons discussed in the above testimonial as well as some not discussed, I don't want this project on my property, in my neighborhood nor state.

A5 Water Protection Map



This A5 map is from exhibits provided by Navigator Heartland Greenway

This map shows a private well and the proximity to source water protection area at about 2000 ft.



HEARTLAND GREENWAY

EXHIBIT A
Dana Bosma
HGS-SD-LI-1.2-037.000
Lincoln County, SD

This exhibit is a mapping sketch descriptive only of the size, shape and location of corridor and does not constitute a plat or survey of the tract shown. For informational purposes only.

SUMMARY






PROPOSED LENGTH

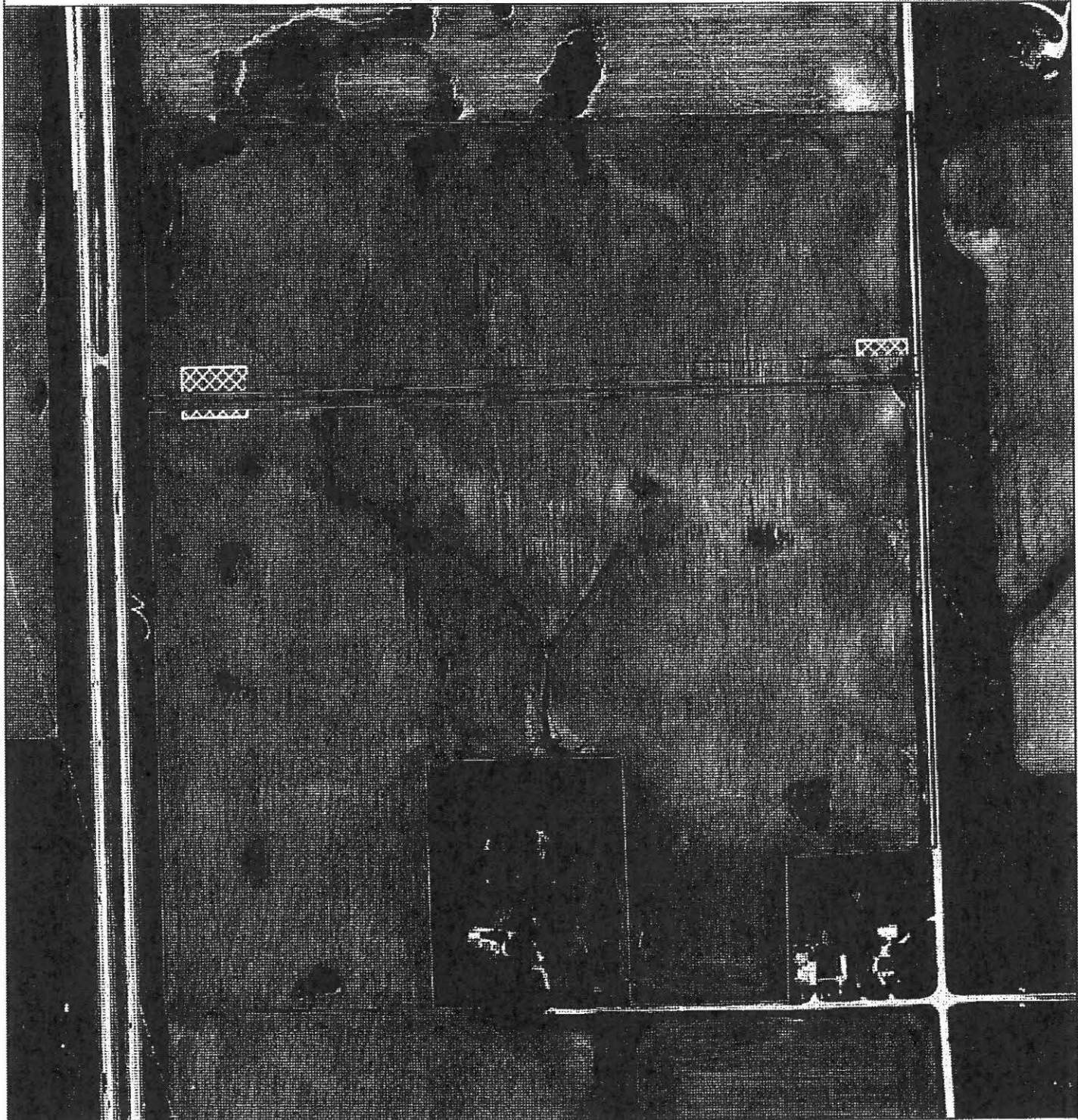
2335.84 Feet
141.57 Rods

PROPOSED ACREAGE

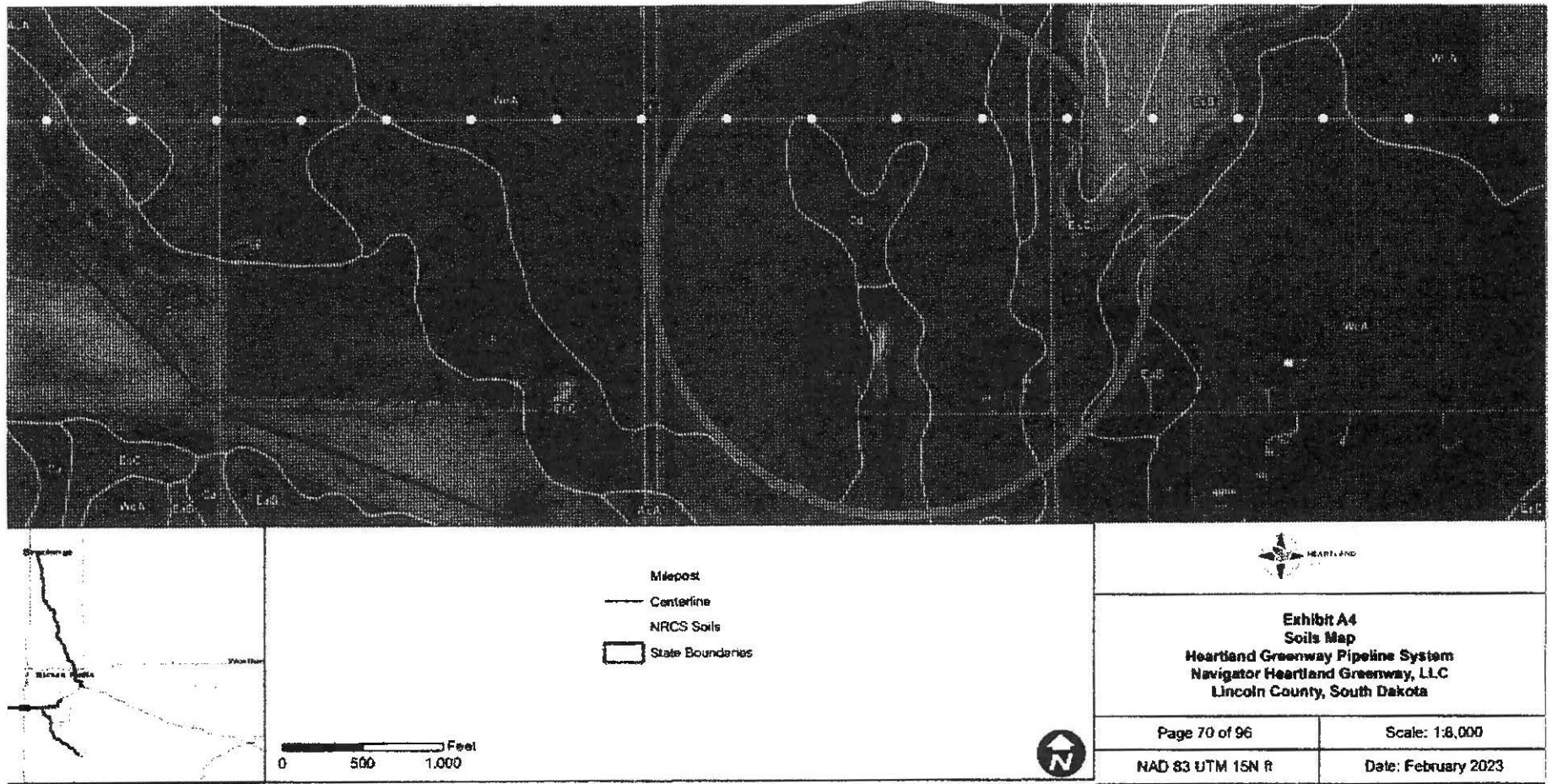
2.68 Permanent Easement Acres
2.33 Temp Workspace Acres
0.63 ATWS Acres

LEGEND

-  Easement Centerline
-  Permanent Easement
-  TWS
-  ATWS
-  Tracts



A4 Soils Map



Soil types: EsC Cd WeA

This A4 map is from exhibits provided by Navigator Heartland Greenway

This is a soil map of my property with the supplemental soil characteristics of the soil on my land highlighted in red. This shows that my land is **PRIME farmland** or farmland of **STATEWIDE IMPORTANCE** that is high or moderately susceptible to rutting hazard, compaction potential, and water erodibility.

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**Navigator Heartland Greenway, LLC
Navigator Heartland Greenway Pipeline System
Exhibit C**

Table C-1 Soils Characteristics of Soil Map Units Crossed by the Heartland Greenway Pipeline System Centerlines											
Map Unit Name	Map Unit Symbol	Pipeline Crossing Length (miles)	Prime Farmland *	Hydric Soils *	Soil Ruiding Hazard *	Compaction Potential	Water Erodibility Potential **	Wind Erodibility Potential **	Steep Slopes **	Shallow Bedrock **	Re-vegetation Potential
FOET Hudson Lateral											
Lincoln County											
Alcester silty clay loam, 0 to 2 percent slopes	AcA	0.76	Prime Farmland	No	High	Moderate	High	Low	No	No	High
Alcester silty clay loam, 2 to 6 percent slopes	AcB	0.49	Prime Farmland	No	High	Moderate	High	Low	No	No	High
Alcester silty clay	Ac	0.18	Not Prime Farmland	No	High	Moderate	Moderate	Low	No	No	Moderate
Chancellor-Tetonka complex, 0 to 2 percent slopes	Ca	0.93	Prime Farmland if Drained	No	High	Moderate	Moderate	Low	No	No	High
Chancellor-Viborg silty clay loams	Cd	0.31	Prime Farmland if Drained	Yes	High	High	Moderate	Low	No	No	High
Chancellor-Wakonda-Tetonka complex	Ch	0.03	Farmland of Statewide Importance	Yes	High	High	Moderate	Low	No	No	High
Crofton-Nora complex, 11 to 17 percent slopes, eroded	CpD2	1.68	Not Prime Farmland	No	High	Moderate	High	Moderate	Yes	No	Moderate
Delmont loam, 0 to 2 percent slopes	DeA	0.16	Prime Farmland if Irrigated	No	High	Moderate	Moderate	Low	No	No	High
Egan silty clay loam, 3 to 6 percent slopes	EaB	2.49	Prime Farmland	No	High	Moderate	Moderate	Low	No	No	High
Egan-Shindler complex, 2 to 6 percent slopes	EsB	0.13	Prime Farmland	No	High	Moderate	Moderate	Low	No	No	High
Egan-Shindler complex, 6 to 9 percent slopes	EsC	0.73	Farmland of Statewide Importance	No	High	Moderate	Moderate	Low	Yes	No	High
Graceville silty clay loam	Gr	0.83	Prime Farmland	No	High	Moderate	Moderate	Low	No	No	High
Lamo silty clay loam, cool, 0 to 2 percent slopes, occasionally flooded	La	0.46	Prime Farmland if Drained	Yes	High	High	Moderate	Low	No	No	High
Moody silty clay loam, 0 to 2 percent slopes	MoA	0.21	Prime Farmland	No	High	Moderate	High	Low	No	No	High
Moody silty clay loam, 2 to 6 percent slopes	MoB	2.39	Prime Farmland	No	High	Moderate	High	Low	No	No	High
Moody-Nora complex, warm, 2 to 6 percent slopes	MpB	0.31	Prime Farmland	No	High	Moderate	High	Low	No	No	High

**Table C-1
Soils Characteristics of Soil Map Units Crossed by the Heartland Greenway Pipeline System Centerlines**

Map Unit Name	Map Unit Symbol	Pipeline Crossing Length (miles)	Prime Farmland ^a	Hydric Soils ^b	Soil Ruiting Hazard ^c	Compaction Potential	Water Erodibility Potential ^{d, e}	Wind Erodibility Potential ^{d, e}	Steep Slopes ^{d, e}	Shallow Bedrock ^{d, e}	Re-vegetation Potential
Mooody-mora silty clay loams, 6 to 10 percent slopes, eroded	MpC2	3.09	Farmland of Statewide Importance	No	High	Moderate	High	Low	Yes	No	High
Sahno silty clay loam, very wet	Sa	0.15	Not Prime Farmland	Yes	High	High	Moderate	Moderate	No	No	Low
Shindler clay loam, 9 to 15 percent slopes	ShD	0.15	Not Prime Farmland	No	High	Moderate	Moderate	Low	Yes	No	Moderate
Shindler clay loam, 25 to 40 percent slopes	ShF	0.02	Not Prime Farmland	No	High	Moderate	Moderate	Low	Yes	No	Moderate
Shindler and Talno soils, 6 to 30 percent slopes	ShD	0.02	Not Prime Farmland	No	High	Moderate	Moderate	Low	Yes	No	Moderate
Tetonka silt loam, 0 to 2 percent slopes, frequently ponded	Te	0.40	Prime Farmland if Drained	Yes	High	High	High	Low	No	No	High
Wentworth silty clay loam, 0 to 2 percent slopes	WeA	2.20	Prime Farmland	No	High	Moderate	High	Low	No	No	High
Wentworth-Chancellor silty clay loams, 0 to 2 percent slopes	WhA	7.55	Prime Farmland if Drained	No	High	Moderate	Moderate	Low	No	No	High

Note: Areas classified by the Natural Resources Conservation Services as "Water" are not included in this table.
Source: USDA-Natural Resources Conservation Service Web Soil Survey, 2021

^a As designated by the Natural Resources Conservation Service.

^b Water Erodibility Potential - Based on the K-Factor which indicates the susceptibility of a soil to sheet and rill erosion by water: High (0.48-0.69), Moderate (0.25-0.47), Low (0.02-0.24)

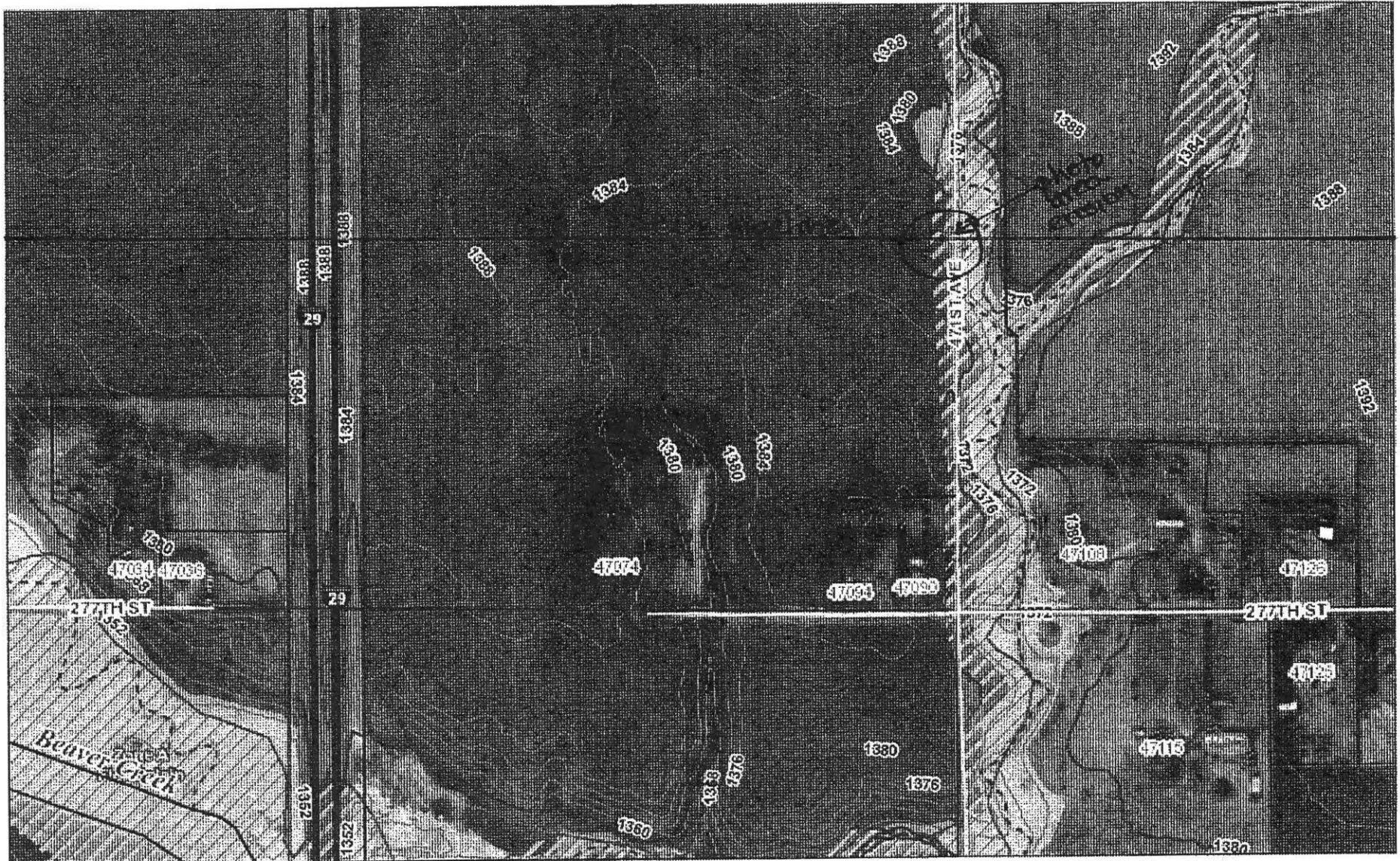
^c Wind Erodibility Potential - Based on wind erodibility group classification: High (1.0-2.0), Moderate (3.0-4.0), Low (≥ 5.0)

^d Steep Slopes - Represents soils with slopes greater than 8 percent.

^e Shallow bedrock - Represents soils with unconsolidated rock 60 inches or less from the surface.

Lincoln County Property Map

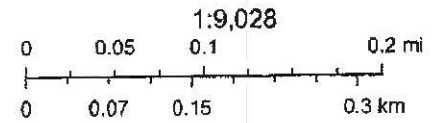
N▲



5/6/2023, 10:24:31 AM

- Town Border - - - Intermittent □ Town □ Floodway
- Watercourse Plat —+— Railroad 2017 FIRM Floodplain
- Perennial □ Parcel ● 1% - A, AE Zone 100yr ▨ A

approx. CO2 pipeline location
following photographs
of current erosion



This map shows that a pipeline leak would funnel through my property, then my sister-in-law's property drifting to lower ground until it bottoms out at Beaver Creek.

Lincoln County GIS
 Lincoln County GIS ©

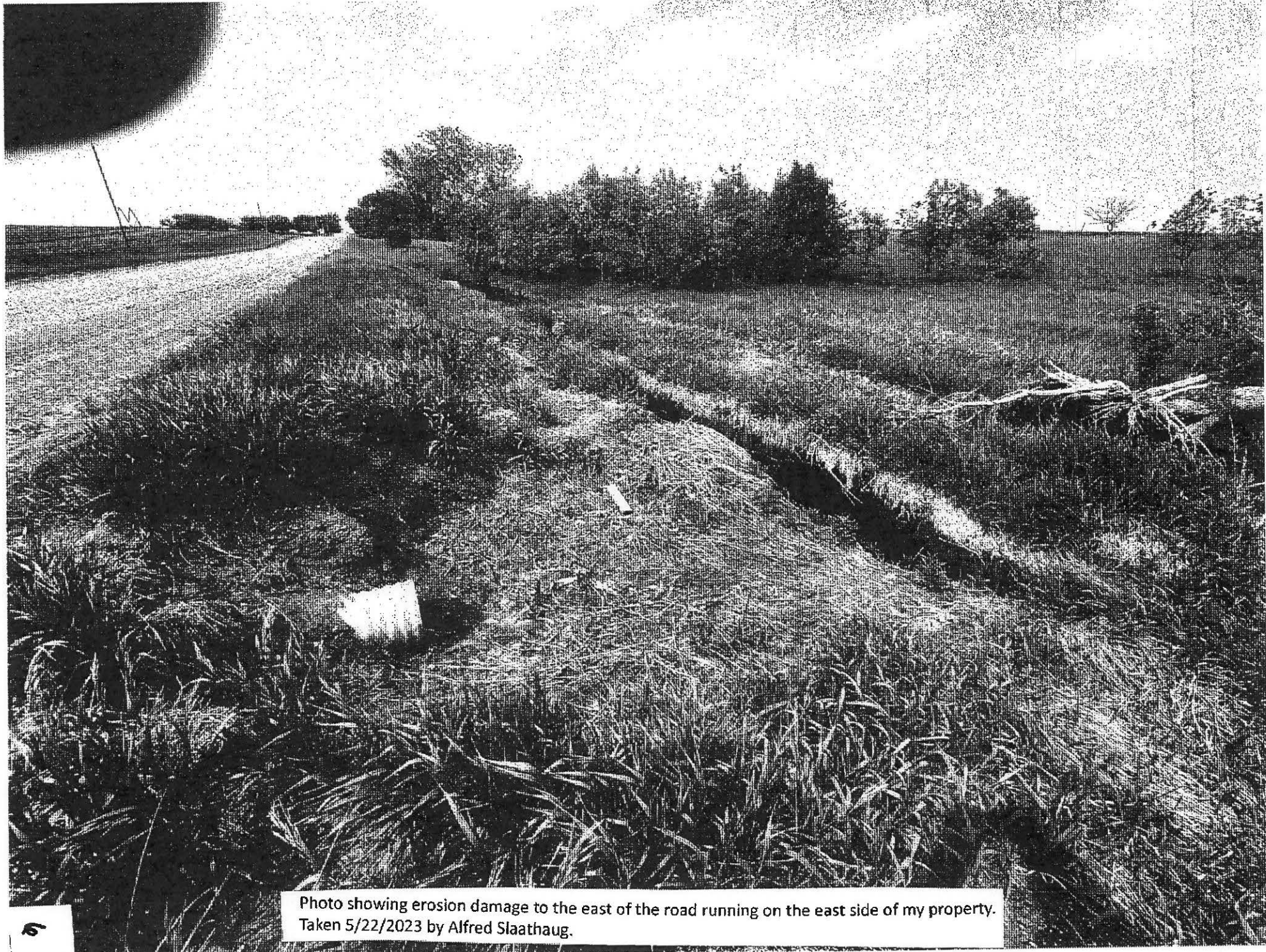


Photo showing erosion damage to the east of the road running on the east side of my property.
Taken 5/22/2023 by Alfred Slaathaug.

6

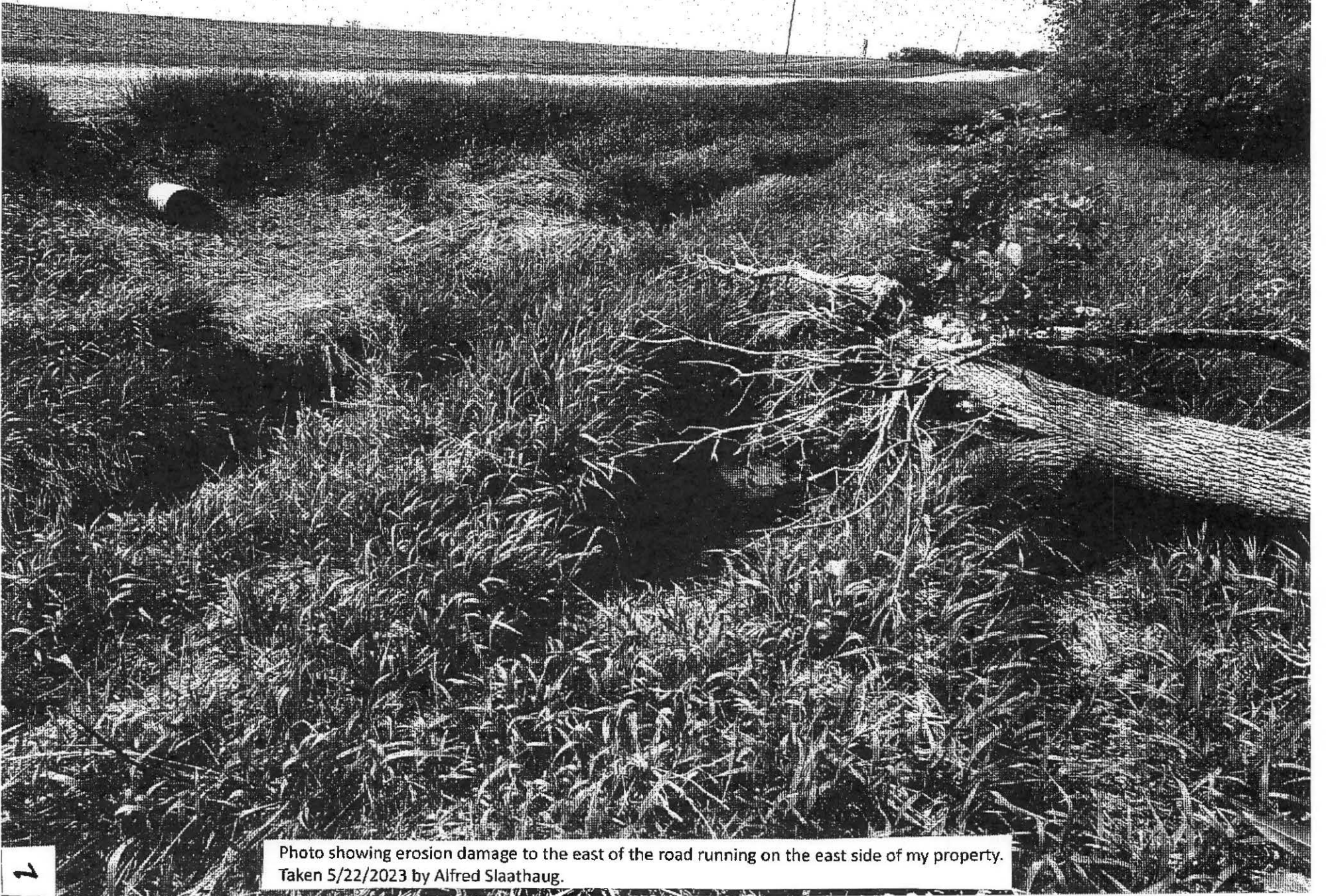


Photo showing erosion damage to the east of the road running on the east side of my property.
Taken 5/22/2023 by Alfred Slaathaug.

1

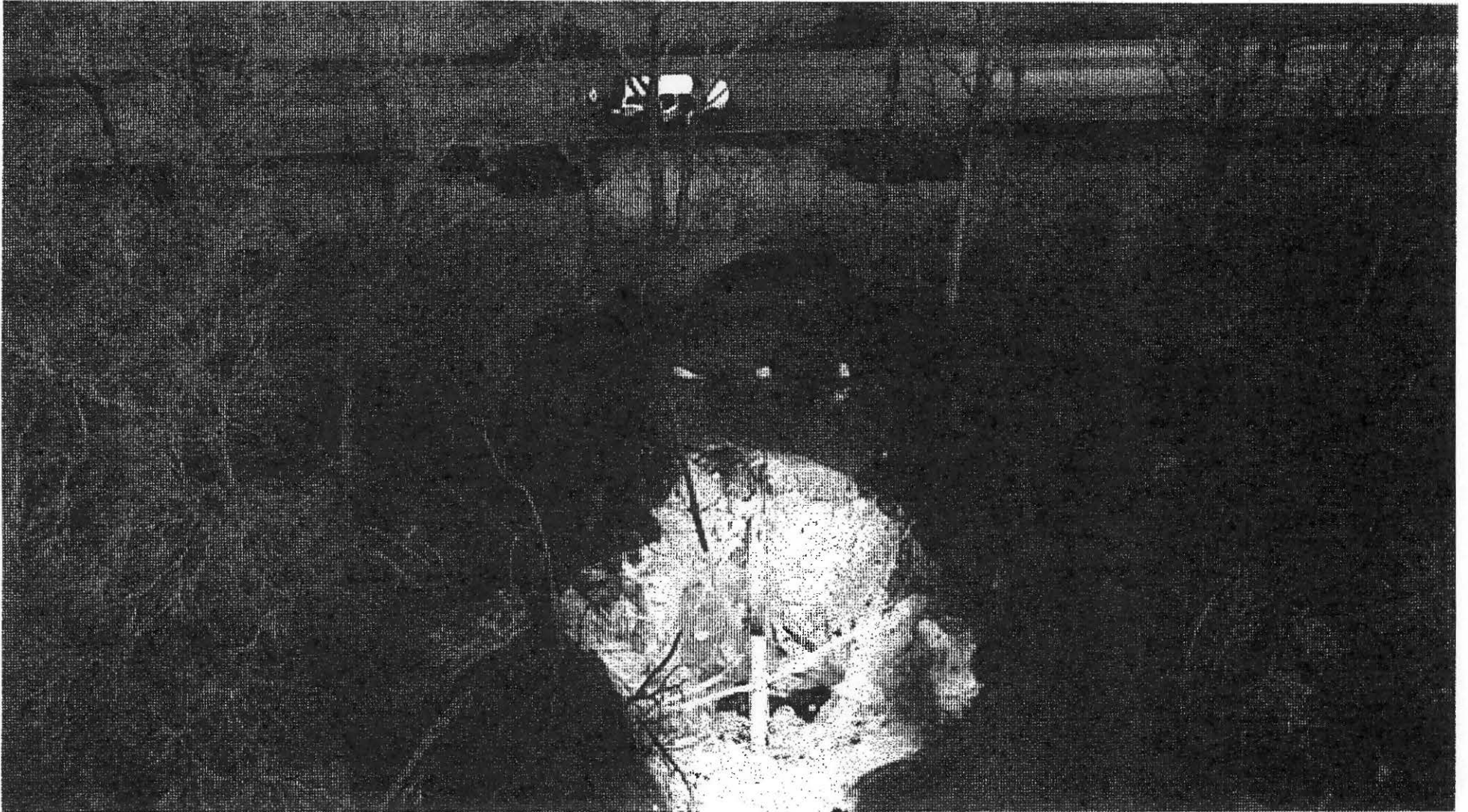
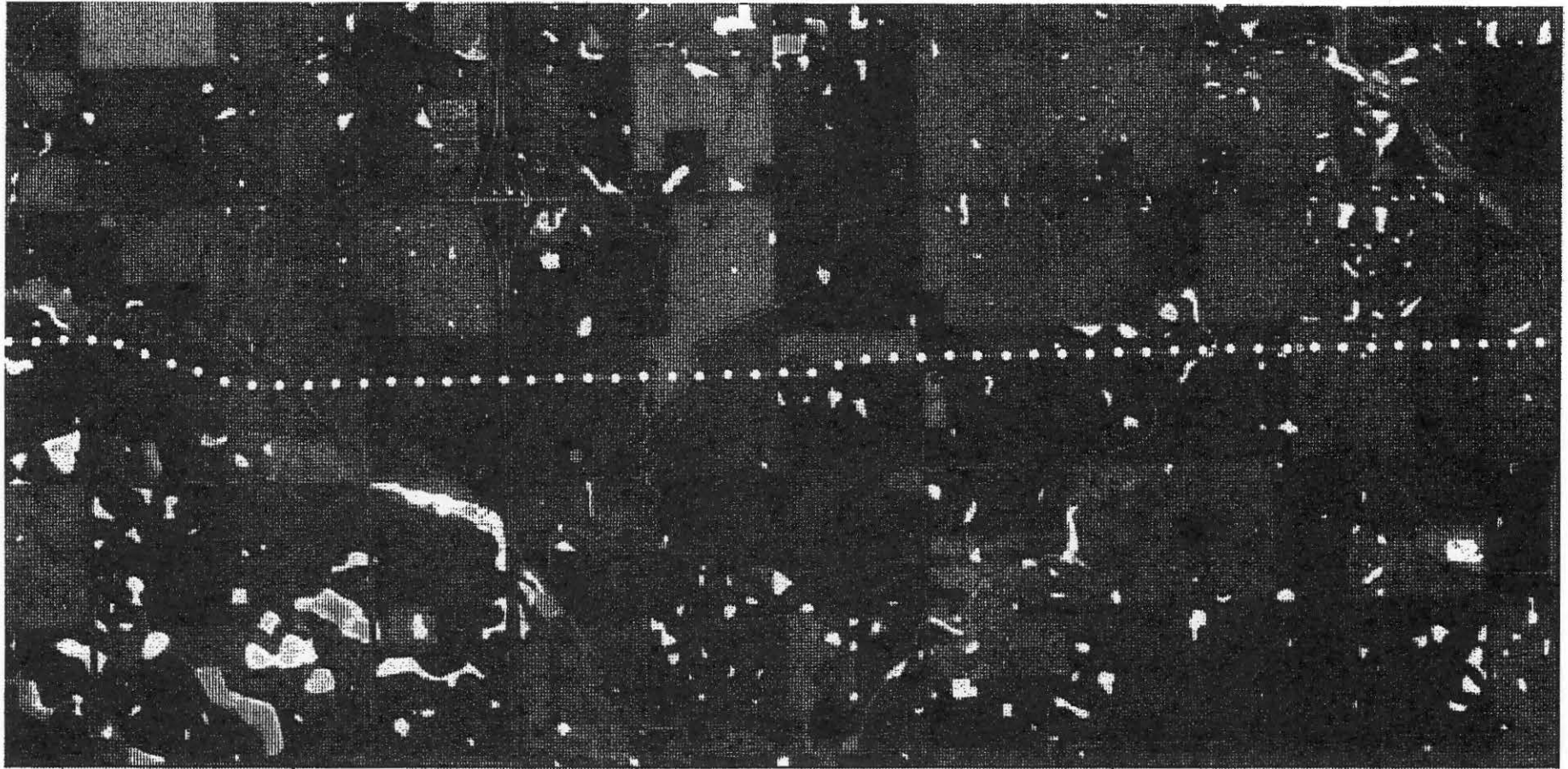
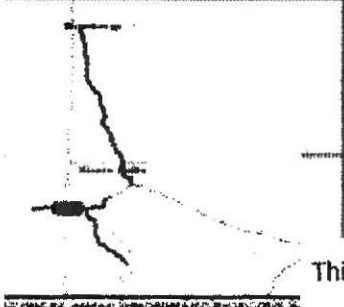


Photo showing damage done by the rupture and explosion of the CO2 pipeline in Satartia, MS 2020.

A2 Aerial Map my property



S. 34th



Milepost	Delineated Features
Centerline	Stream
NHD Waterbody	Open Water
NHD Fwatline	PEM Wetland
NW1 Wetland	PFO Wetland
	PSS Wetland



Exhibit A2
Aerial Map
Heartland Greenway Pipeline System
Navigator Heartland Greenway, LLC
Lincoln County, South Dakota

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Scale: 1:24,000

NAD 83 UTM 15N 1E

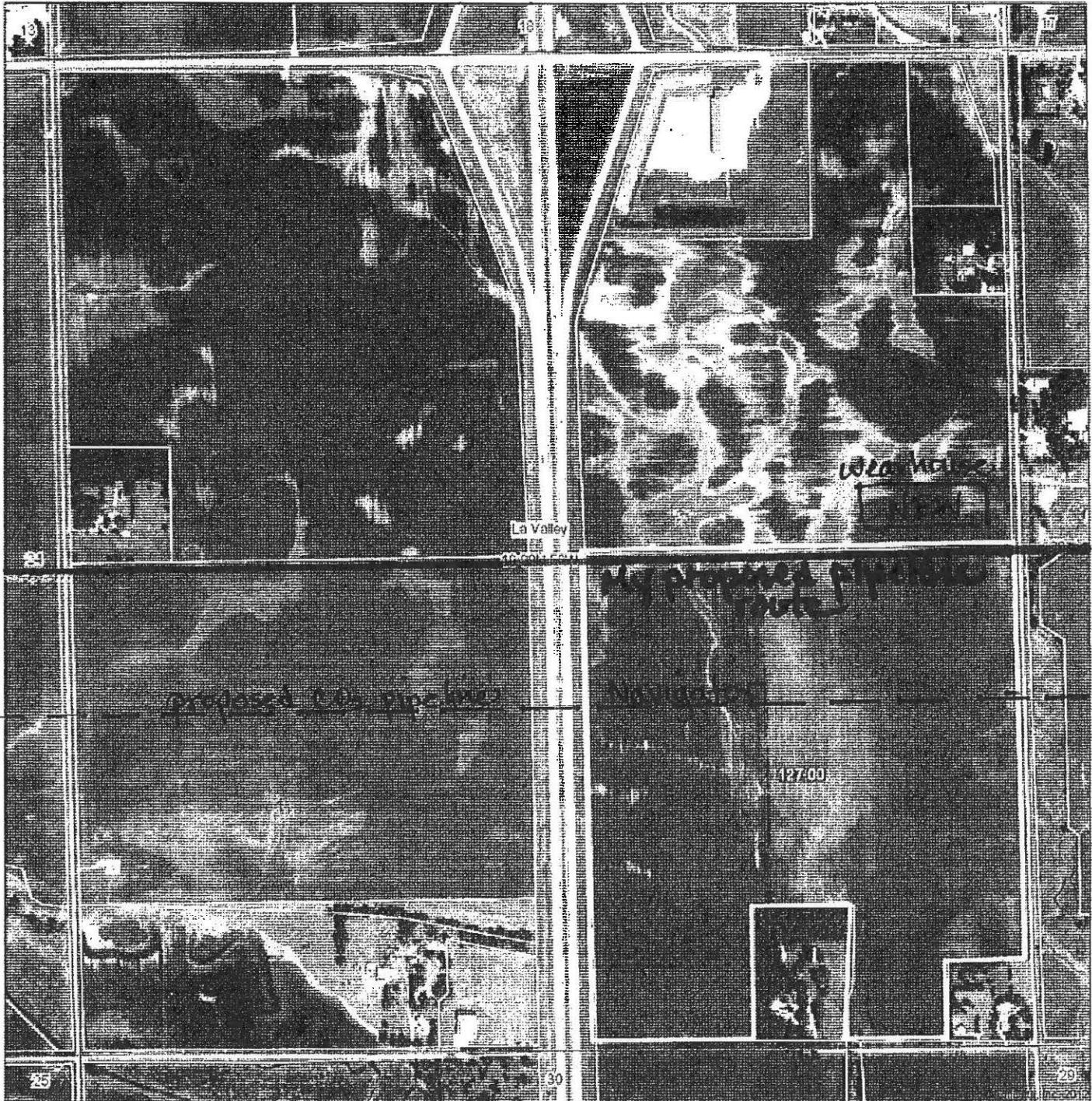
Date: September 2022

This A5 map is from exhibits provided by Navigator Heartland Greenway

This map shows that a setback of 1500ft from my sister-in-law's house. (red dot)

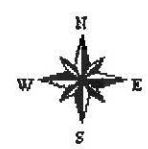
Farm I

Aerial Map



map center: 43° 22' 51.85, 96° 47' 47.89
 scale: 8847

19-99N-50W
Lincoln County
South Dakota



12/11/2012

Maps provided by:



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Field borders provided by Farm Service Agency as of 5/21/2008. Aerial photography provided by Aerial Photography Field Office.