

Internal Memo

Office of Materials
Mailstop 645
1400 Gervais Avenue
Maplewood, MN 55109

DATE: December 9th, 2020

TO: Christian Lawien, Project Manager
District 1

FROM: Hossana Teklyes, Assistant Foundations Engineer
Geotechnical Engineering Section
Foundations Unit

CONCUR: Rich Lamb, Foundations Engineer
Geotechnical Engineering Section
Foundations Unit

SUBJECT: S.P.5880-198 (District 1)
I 35 HTCB (From Beroun to 0.3 mi. E. MN45 in Scanlon)
Subsurface Investigation & Soils Report

Project Description

This report provides a summary of the subsurface investigation and description of the soils that may be encountered when installing the anchors for the proposed cable median barrier system.

Field Investigation

Thirty nine Auger Borings were taken in August, September and November of 2020 by District One. The Auger borings were taken at designated termination points (anchors) of the guardrail. The attached map shows the location of the Auger Borings. A copy of the Auger Boring logs are included with this report.

Auger Borings

The Auger Borings were interpreted for a general soil behavior type and broken into significant soil layers by depth.

Please see the attached Auger Borings for a more detailed description of the soils.

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S.P. 5880-198, I 35 HTCB
Subsurface Investigation & Soil Description
December 9th, 2020

Attachments:

Google Earth Map of HTCB (Plan 1-11)

Auger Borings b200513– b200736 (b01-b39)

cc: B. Skow

A. Thorson

B. E. Welch

File

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SP5880-198 (HTCB)

I 35 (D1-Pine County)

Legend
📍 Auger Borings



↑
N
1000 ft

SP5880-198 (HTCB)

I 35 (D1-Pine County)


Legend
📍 Auger Borings

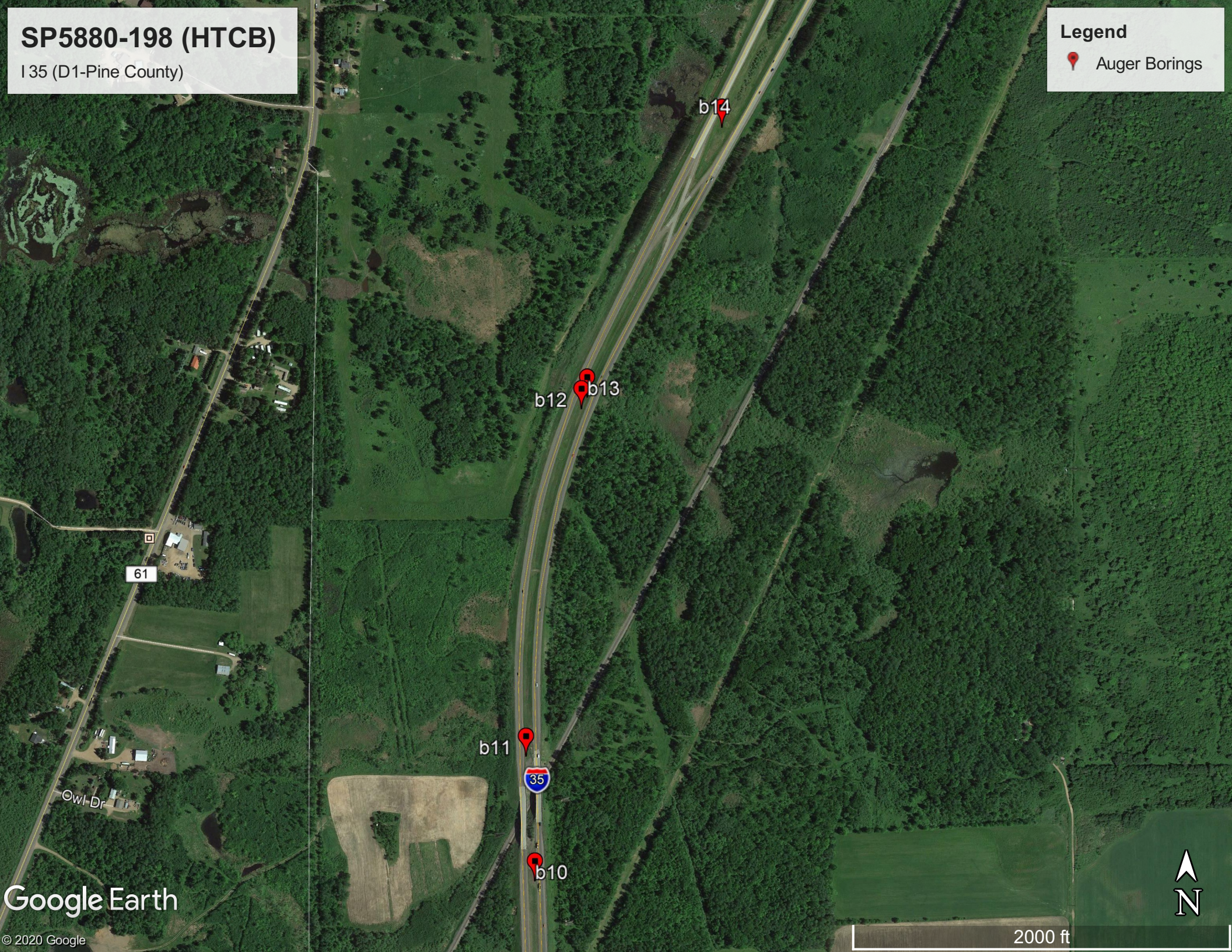


SP5880-198 (HTCB)

I 35 (D1-Pine County)

Legend

-  Auger Borings



b14

b12 b13

b11

b10

61

35

Owl-Dr

Google Earth

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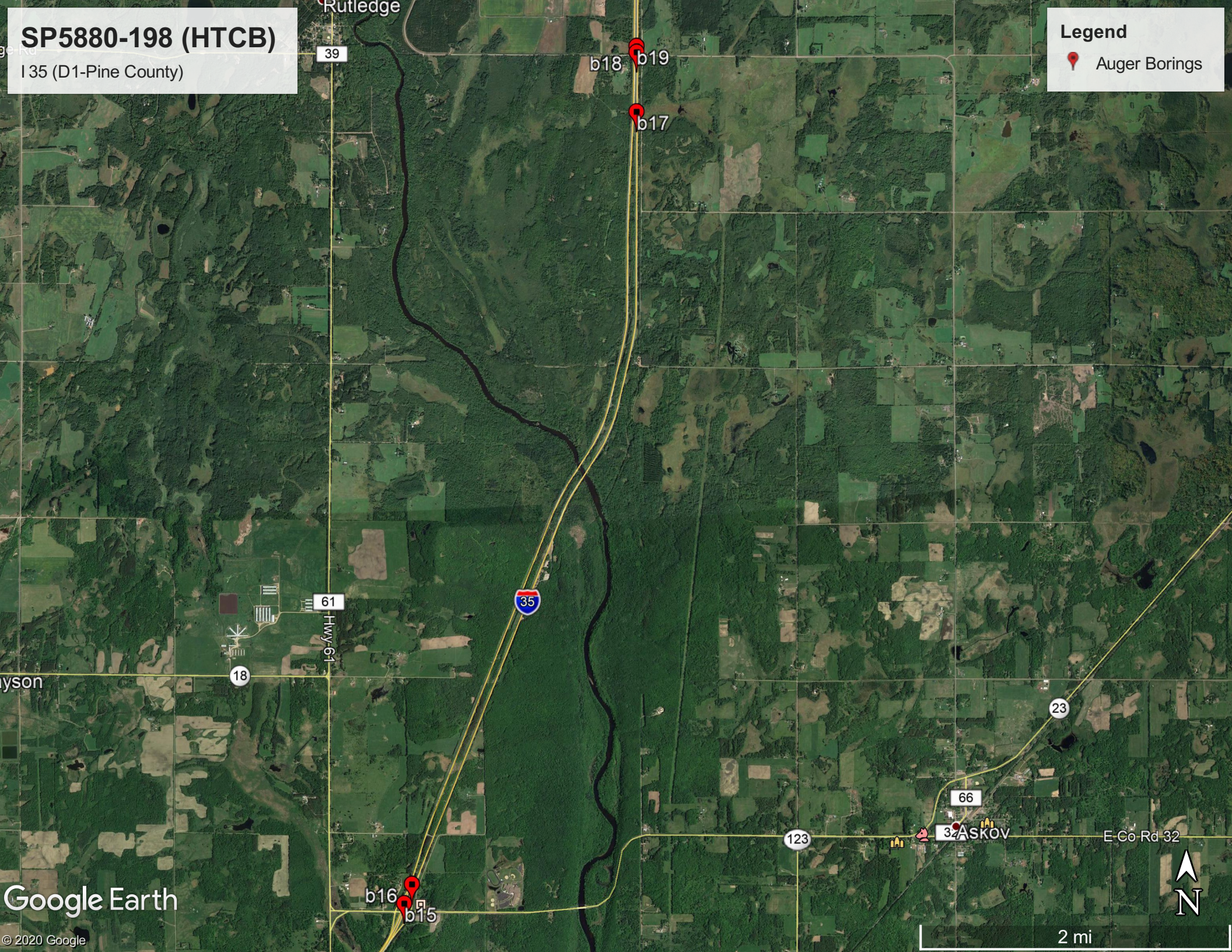
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SP5880-198 (HTCB)

I 35 (D1-Pine County)

Legend


-  Auger Borings



SP5880-198 (HTCB)

I 35 (D1-Pine County)

Legend

-  Auger Borings



b21

b20


Cane Creek Rd

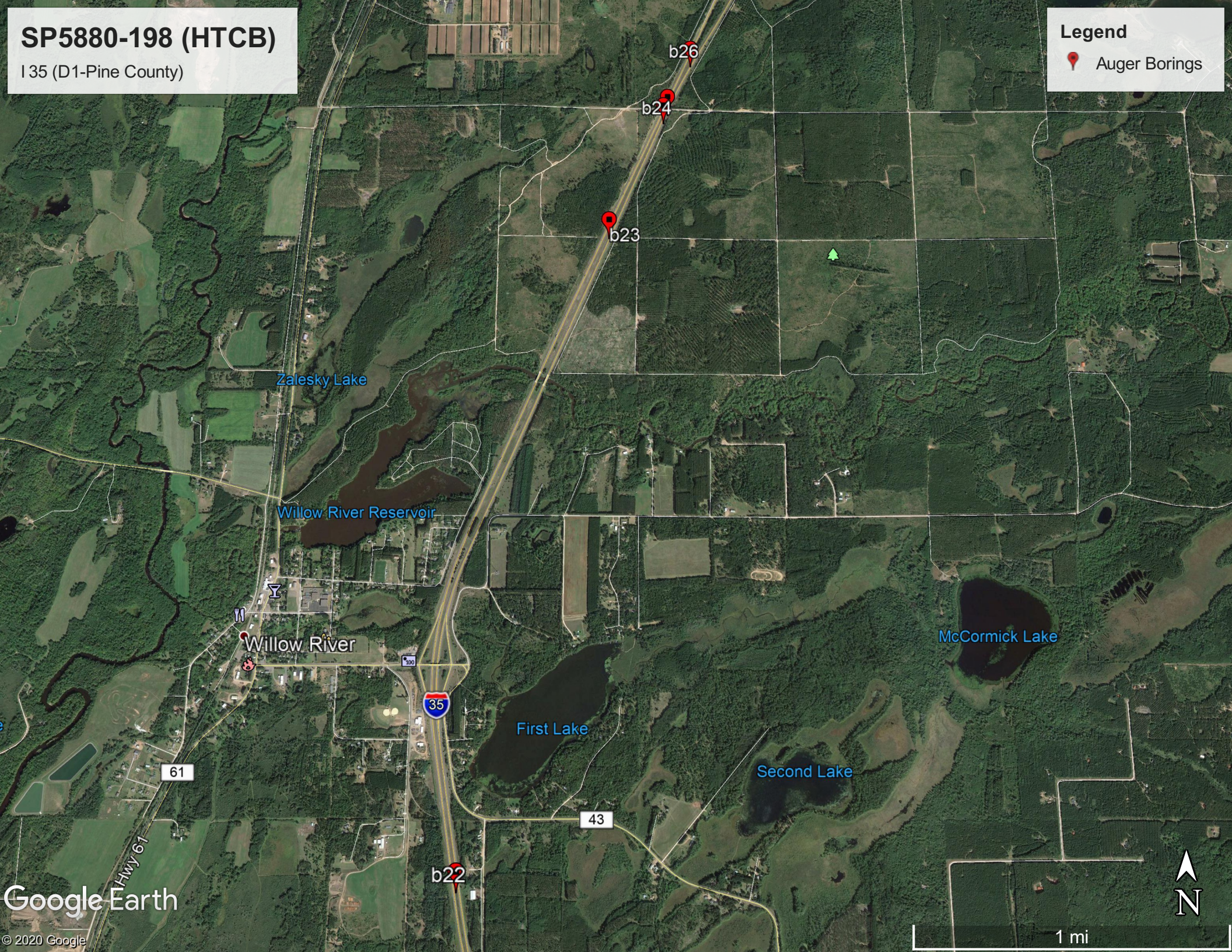


SP5880-198 (HTCB)

I 35 (D1-Pine County)

Legend


 Auger Borings

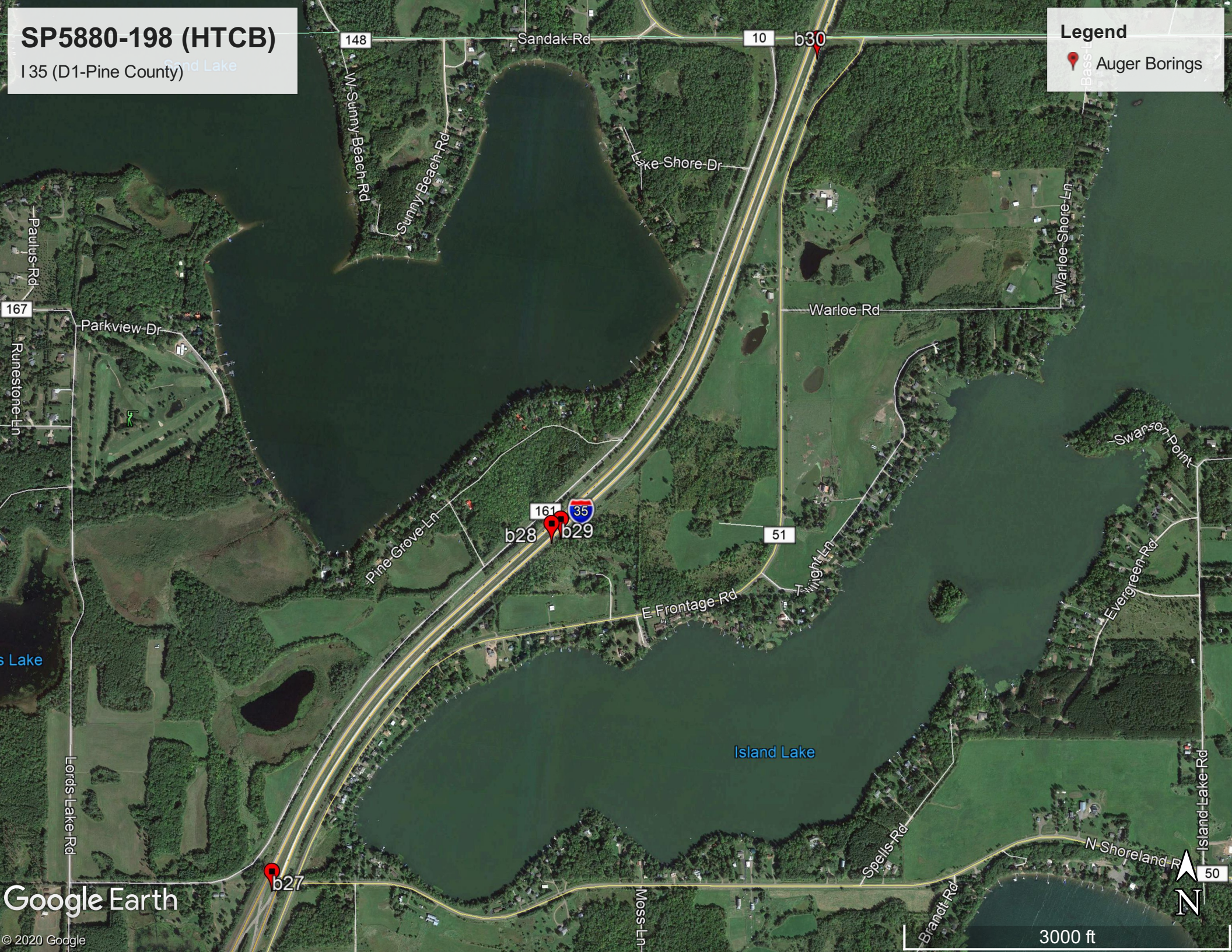


SP5880-198 (HTCB)

I 35 (D1-Pine County)

Legend


 Auger Borings

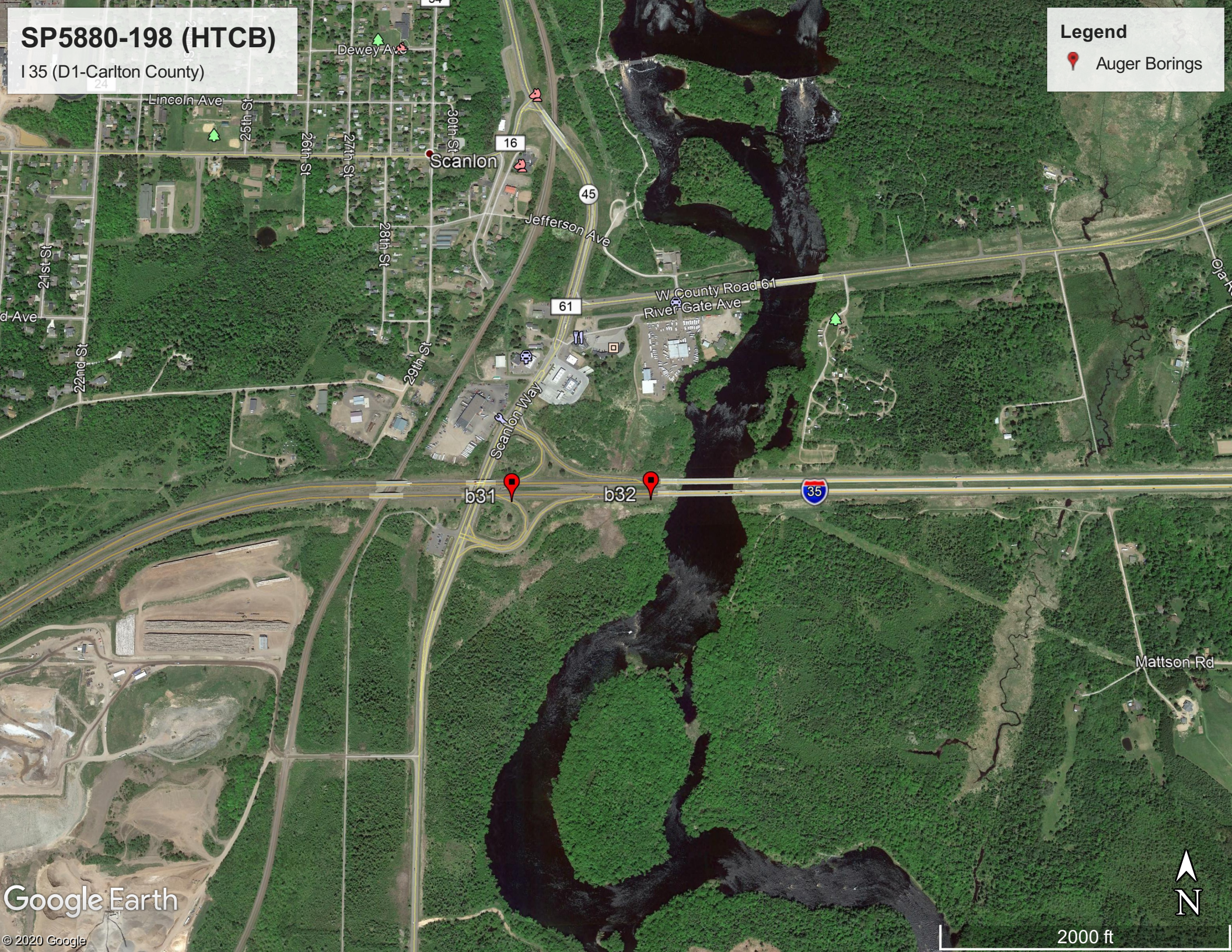


SP5880-198 (HTCB)

I 35 (D1-Carlton County)

Legend

-  Auger Borings



Dewey Ave

Scanlon

16

45

61

35

b31

b32

Mattson Rd

Google Earth

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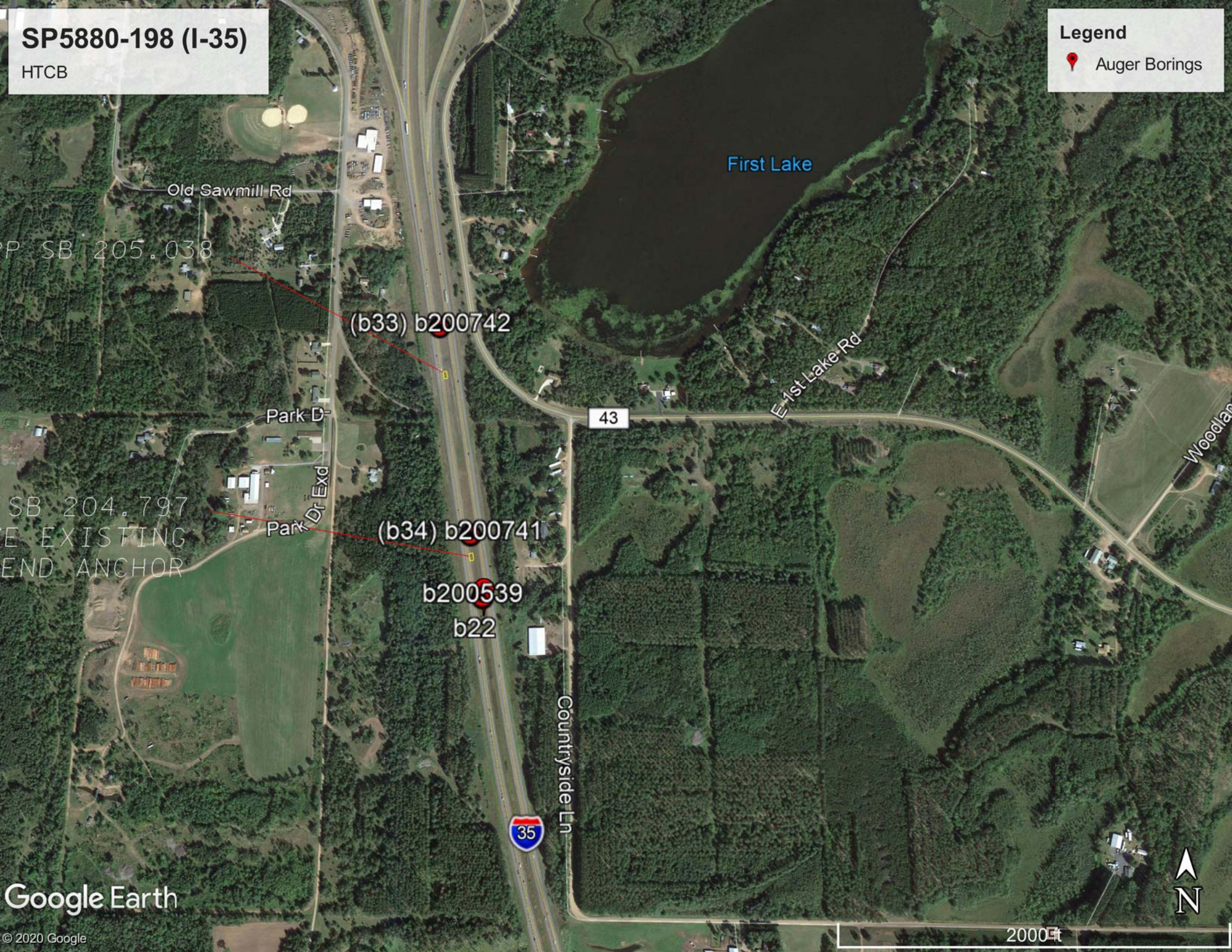
2000 ft



SP5880-198 (I-35)

HTCB

Legend
📍 Auger Borings



P SB 205.038

SB 204.797
E EXISTING
END ANCHOR

Old Sawmill Rd

First Lake

(b33) b200742

Park D

43

E 1st Lake Rd

Woodlan

Park

Dr Exd

(b34) b200741

b200539

b22

Countryside Ln



Google Earth

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2000ft




SP5880-198 (I-35)

HTCB

Legend

 Auger Borings

 (b35) b200740

 (b36) b200739



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100 ft

SP5880-198 (I-35)

HTCB

Legend

 Auger Borings

RP SB 202.794

(b37) b200738

(b38) b200737

RP NB 202.754

Valley Farm Rd



Cane Creek Rd

202.052

(b39) b200736

b200537

b20

Google Earth

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2000 ft



Mn/DOT Coring Log Report

Project Number 5880-198 **I-35** **Pine County**

Borehole b200513 **Sta.** b01 **Off.** -25.5 **Chain Name** a
Driller ml wo mg **Unit #** 200536 **Water Depth** **Refusal Depth**
Date Drilled 8/17/2020 **X:** 483001.9060 **Y:** 161176.5370 **ELEV:** 876.9
Borehole Comments , Loc=Ditch , LaneDir=INC
Top - Bottom : Description
0.00 - 0.10 : ts
0.10 - 3.00 : LS F nonpl brn moist
3.00 - 6.00 : LS F nonpl brn wet
6.00 - 15.00 : LS F nonpl brn sat

Borehole b200516 **Sta.** b02 **Off.** -23.0 **Chain Name** a
Driller ml wo mg **Unit #** 200536 **Water Depth** **Refusal Depth**
Date Drilled 8/18/2020 **X:** 483004.6170 **Y:** 163364.0070 **ELEV:** 875.4
Borehole Comments , Loc=Median , LaneDir=INC
Top - Bottom : Description
0.00 - 0.10 : ts
0.10 - 3.50 : LS F nonpl brn moist
3.50 - 8.00 : LS F nonpl brn wet
8.00 - 15.00 : LS F nonpl brn sat

Borehole b200517 **Sta.** b03 **Off.** -28.0 **Chain Name** a
Driller ml wo mg **Unit #** 200536 **Water Depth** **Refusal Depth**
Date Drilled 8/18/2020 **X:** 483005.3010 **Y:** 163578.3950 **ELEV:** 872.8
Borehole Comments , Loc=Median , LaneDir=INC
Top - Bottom : Description
0.00 - 1.00 : LS F nonpl brn moist
1.00 - 2.00 : LS F nonpl gry moist
2.00 - 4.00 : SL F spll gry moist
4.00 - 5.00 : LS F nonpl brn wet trace of topsoil from 4 to 5 feet
5.00 - 10.00 : LS F nonpl gry wet
10.00 - 12.50 : LS F nonpl brn wet
12.50 - 15.00 : LS F nonpl brn sat

Borehole b200518 **Sta.** b04 **Off.** -25.0 **Chain Name** a
Driller ml wo mg **Unit #** 200536 **Water Depth** **Refusal Depth**
Date Drilled 8/18/2020 **X:** 483013.2590 **Y:** 164777.5840 **ELEV:** 870.0
Borehole Comments , Loc=Median , LaneDir=INC
Top - Bottom : Description
0.00 - 0.10 : ts
0.10 - 3.50 : LS Cr nonpl brn moist
3.50 - 5.00 : SL F pl ltbrn moist
5.00 - 8.50 : C ltbrn soft moist trace of topsoil from 4 to 5 feet
8.50 - 12.00 : C gry firm moist
12.00 - 14.00 : C gry soft wet
14.00 - 15.00 : SL Cr spll brn sat

Borehole b200514 **Sta.** b05 **Off.** -27.0 **Chain Name** a
Driller ml wo mg **Unit #** 200536 **Water Depth** **Refusal Depth**
Date Drilled 8/17/2020 **X:** 490071.5530 **Y:** 197230.5580 **ELEV:** 919.7

Borehole Comments , Loc=Ditch , LaneDir=INC

Top - Bottom : Description

0.00 - 0.10 : ts
0.10 - 4.00 : LS F nonpl brn moist
4.00 - 15.00 : LS F nonpl brn wet

Borehole b200515 **Sta.** b06 **Off.** -25.0 **Chain Name** a
Driller ml wo mg **Unit #** 200536 **Water Depth** **Refusal Depth**
Date Drilled 8/17/2020 **X:** 490457.1970 **Y:** 198325.5740 **ELEV:** 918.8

Borehole Comments , Loc=Median , LaneDir=INC

Top - Bottom : Description

0.00 - 0.20 : ts
0.20 - 3.50 : LS F nonpl brn moist
3.50 - 5.00 : LS F nonpl brn wet
5.00 - 10.00 : LS F nonpl gry moist traces of topsoil between 8.0 and 10.0
10.00 - 13.50 : LS F nonpl brn moist
13.50 - 15.00 : LS F nonpl brn sat

Borehole b200519 **Sta.** b07 **Off.** -20.0 **Chain Name** a
Driller ml wo mg **Unit #** 200536 **Water Depth** **Refusal Depth**
Date Drilled 8/19/2020 **X:** 492515.0520 **Y:** 204311.9110 **ELEV:** 926.6

Borehole Comments , Loc=Median , LaneDir=INC

Top - Bottom : Description

0.00 - 0.10 : ts
0.10 - 5.00 : LS Cr nonpl brn moist
5.00 - 7.00 : LS Cr nonpl dkgr moist
7.00 - 13.50 : LS Cr nonpl brn wet
13.50 - 15.00 : LS Cr nonpl gry sat

Borehole b200520 **Sta.** b08 **Off.** -24.0 **Chain Name** a
Driller ml wo mg **Unit #** 200536 **Water Depth** **Refusal Depth**
Date Drilled 8/19/2020 **X:** 492795.9320 **Y:** 205126.3650 **ELEV:** 929.4

Borehole Comments , Loc=Shoulder , LaneDir=INC

Top - Bottom : Description

0.00 - 0.30 : ts
0.30 - 4.00 : LS F nonpl brn moist
4.00 - 5.50 : LS Vf nonpl ltbrn moist
5.50 - 8.00 : LS F nonpl gry moist
8.00 - 15.00 : LS Cr nonpl brn wet

Borehole b20021 **Sta.** b09 **Off.** -24.0 **Chain Name** a
Driller ml wo mg **Unit #** 200536 **Water Depth** **Refusal Depth**
Date Drilled 8/19/2020 **X:** 492825.3320 **Y:** 205209.3390 **ELEV:** 925.9

Borehole Comments , Loc=Shoulder , LaneDir=INC

Top - Bottom : Description

0.00 - 0.20 : ts
0.20 - 3.00 : LS Cr nonpl brn moist
3.00 - 5.00 : LS Cr nonpl brn wet
5.00 - 8.00 : SL F slpl gry wet
8.00 - 11.00 : LS F nonpl gry wet
11.00 - 13.50 : LS Cr nonpl brn wet
13.50 - 15.00 : LS F nonpl brn moist

Borehole b20022 **Sta.** b10 **Off.** -24.0 **Chain Name** a
Driller ml wo mg **Unit #** 200536 **Water Depth** **Refusal Depth**
Date Drilled 8/19/2020 **X:** 493602.7620 **Y:** 209942.9790 **ELEV:** 982.3

Borehole Comments , Loc=Median , LaneDir=INC

Top - Bottom : Description

0.00 - 0.30 : ts
0.30 - 2.50 : LS F nonpl brn moist
2.50 - 6.00 : LS Cr nonpl brn wet
6.00 - 12.00 : LS F nonpl brn moist
12.00 - 15.00 : LS Cr nonpl brn sat

Borehole b200528 **Sta.** b11 **Off.** -28.0 **Chain Name** a
Driller ml wo mg **Unit #** 200536 **Water Depth** **Refusal Depth**
Date Drilled 8/24/2020 **X:** 493556.2490 **Y:** 210596.9980 **ELEV:** 984.5

Borehole Comments , Loc=Median , LaneDir=DEC

Top - Bottom : Description

0.00 - 0.10 : ts
0.10 - 2.50 : SL F slpl brn moist
2.50 - 15.00 : LS F nonpl brn moist

Borehole b200529 **Sta.** b12 **Off.** -28.0 **Chain Name** a
Driller ml wo mg **Unit #** 200536 **Water Depth** **Refusal Depth**
Date Drilled 8/24/2020 **X:** 493847.8320 **Y:** 212417.1550 **ELEV:** 965.0

Borehole Comments , Loc=Median , LaneDir=DEC

Top - Bottom : Description

0.00 - 0.10 : ts
0.10 - 2.50 : LS F nonpl brn wet
2.50 - 4.00 : LS Vf nonpl dkgry moist
4.00 - 5.50 : LS F nonpl gry moist
5.50 - 12.00 : SL F slpl brn moist
12.00 - 15.00 : SL F slpl brn wet

Borehole b200530 **Sta.** b13 **Off.** -28.0 **Chain Name** a
Driller ml wo mg **Unit #** 200536 **Water Depth** **Refusal Depth**
Date Drilled 8/24/2020 **X:** 493877.8960 **Y:** 212477.7720 **ELEV:** 961.3

Borehole Comments , Loc=Median , LaneDir=DEC

Top - Bottom : Description

0.00 - 0.10 : ts
0.10 - 4.00 : LS F nonpl brn wet
4.00 - 6.00 : LS Vf nonpl gry moist
6.00 - 15.00 : LS F nonpl brn wet

Borehole b200531 **Sta.** b14 **Off.** -30.0 **Chain Name** a
Driller ml wo mg **Unit #** 200536 **Water Depth** **Refusal Depth**
Date Drilled 8/24/2020 **X:** 494588.3860 **Y:** 213893.2610 **ELEV:** 967.8

Borehole Comments , Loc=Median , LaneDir=DEC

Top - Bottom : Description

0.00 - 0.20 : ts
0.20 - 2.50 : LS F nonpl brn moist
2.50 - 14.00 : LS F nonpl gry moist
14.00 - 15.00 : LS F nonpl gry wet

Borehole b200532 **Sta.** b15 **Off.** -22.0 **Chain Name** a
Driller mg wo m **Unit #** 200536 **Water Depth** **Refusal Depth**
Date Drilled 8/25/2020 **X:** 511052.4450 **Y:** 264102.9750 **ELEV:** 1019.7
Borehole Comments , Loc=Median , LaneDir=INC
Top - Bottom : Description
0.00 - 0.10 : ts
0.10 - 15.00 : LS F nonpl brn moist

Borehole b200533 **Sta.** b16 **Off.** -20.0 **Chain Name** a
Driller mg wo m **Unit #** 200536 **Water Depth** **Refusal Depth**
Date Drilled 8/25/2020 **X:** 511315.9100 **Y:** 264758.7980 **ELEV:** 1030.9
Borehole Comments , Loc=Shoulder , LaneDir=INC
Top - Bottom : Description
0.00 - 0.10 : ts
0.10 - 2.50 : LS Cr nonpl brn moist
2.50 - 15.00 : LS F nonpl brn moist

Borehole b200534 **Sta.** b17 **Off.** -21.0 **Chain Name** a
Driller mg wo m **Unit #** 200536 **Water Depth** **Refusal Depth**
Date Drilled 8/25/2020 **X:** 518919.8780 **Y:** 290894.6370 **ELEV:** 994.0
Borehole Comments , Loc=Shoulder , LaneDir=INC
Top - Bottom : Description
0.00 - 0.10 : ts
0.10 - 2.00 : LS Cr nonpl brn moist
2.00 - 13.00 : LS F nonpl brn moist
13.00 - 15.00 : LS Cr nonpl gry wet

Borehole b200535 **Sta.** b18 **Off.** -30.0 **Chain Name** a
Driller mg wo m **Unit #** 200536 **Water Depth** **Refusal Depth**
Date Drilled 8/25/2020 **X:** 518919.5650 **Y:** 292907.0350 **ELEV:** 1029.5
Borehole Comments , Loc=Median , LaneDir=INC
Top - Bottom : Description
0.00 - 0.10 : ts
0.10 - 1.50 : LS Cr nonpl brn moist
1.50 - 6.00 : LS F nonpl brn moist
6.00 - 12.00 : SL Vf slpl brn moist
12.00 - 15.00 : LS Cr nonpl brn wet

Borehole b200536 **Sta.** b19 **Off.** -30.0 **Chain Name** a
Driller mg wo m **Unit #** 200536 **Water Depth** **Refusal Depth**
Date Drilled 8/25/2020 **X:** 518918.1590 **Y:** 293105.4650 **ELEV:** 985.1
Borehole Comments , Loc=Median , LaneDir=INC
Top - Bottom : Description
0.00 - 0.20 : ts
0.20 - 1.50 : LS Cr nonpl brn moist
1.50 - 6.00 : SL F slpl brn moist
6.00 - 8.00 : LS F nonpl brn moist
8.00 - 15.00 : LS Cr nonpl brn wet

Borehole b200537 **Sta.** b20 **Off.** -36.0 **Chain Name** a
Driller mg wo m **Unit #** 200536 **Water Depth** **Refusal Depth**
Date Drilled 8/25/2020 **X:** 518920.4060 **Y:** 296363.8810 **ELEV:** 950.5
Borehole Comments , Loc=Median , LaneDir=INC
Top - Bottom : Description
0.00 - 0.10 : ts
0.10 - 4.00 : LS F nonpl brn moist
4.00 - 6.00 : LS Vf nonpl brn moist
6.00 - 12.00 : LS Cr nonpl brn sat
12.00 - 15.00 : LS F nonpl brn wet

Borehole b200538 **Sta.** b21 **Off.** -32.0 **Chain Name** a
Driller mg wo m **Unit #** 200536 **Water Depth** **Refusal Depth**
Date Drilled 8/25/2020 **X:** 518928.8650 **Y:** 296457.3690 **ELEV:** 974.7
Borehole Comments , Loc=Median , LaneDir=INC
Top - Bottom : Description
0.00 - 0.10 : ts
0.10 - 3.00 : LS Cr nonpl brn moist
3.00 - 6.00 : LS F nonpl brn moist
6.00 - 15.00 : LS Cr nonpl brn wet

Borehole b200539 **Sta.** b22 **Off.** -26.0 **Chain Name** a
Driller ml wo mg **Unit #** 200536 **Water Depth** **Refusal Depth**
Date Drilled 8/26/2020 **X:** 518667.5340 **Y:** 310465.0640 **ELEV:** 959.0
Borehole Comments , Loc=Median , LaneDir=INC
Top - Bottom : Description
0.00 - 0.10 : ts
0.10 - 3.00 : LS F nonpl brn moist
3.00 - 6.00 : LS Cr nonpl brn moist
6.00 - 15.00 : LS F nonpl brn wet

Borehole b200540 **Sta.** b23 **Off.** -26.0 **Chain Name** a
Driller ml wo mg **Unit #** 200536 **Water Depth** **Refusal Depth**
Date Drilled 8/26/2020 **X:** 521219.2030 **Y:** 322264.6400 **ELEV:** 978.7
Borehole Comments , Loc=Median , LaneDir=DEC
Top - Bottom : Description
0.00 - 0.10 : ts
0.10 - 15.00 : LS F nonpl brn moist

Borehole b200541 **Sta.** b24 **Off.** -28.0 **Chain Name** a
Driller ml wo mg **Unit #** 200536 **Water Depth** **Refusal Depth**
Date Drilled 8/26/2020 **X:** 522261.9250 **Y:** 324631.8170 **ELEV:** 977.9
Borehole Comments , Loc=Median , LaneDir=DEC
Top - Bottom : Description
0.00 - 0.10 : ts
0.10 - 15.00 : LS F nonpl brn moist

Borehole b200542 **Sta.** b25 **Off.** -32.0 **Chain Name** a
Driller ml wo mg **Unit #** 200536 **Water Depth** **Refusal Depth**
Date Drilled 8/26/2020 **X:** 522341.7870 **Y:** 324810.1870 **ELEV:** 982.1
Borehole Comments , Loc=Median , LaneDir=DEC
Top - Bottom : Description
0.00 - 0.10 : ts
0.10 - 2.50 : LS Cr nonpl brn moist
2.50 - 15.00 : LS F nonpl brn moist

Borehole b200543 **Sta.** b26 **Off.** -28.0 **Chain Name** a
Driller ml wo mg **Unit #** 200536 **Water Depth** **Refusal Depth**
Date Drilled 8/26/2020 **X:** 522794.3940 **Y:** 325842.5120 **ELEV:** 987.1
Borehole Comments , Loc=Median , LaneDir=DEC
Top - Bottom : Description
0.00 - 0.20 : ts
0.20 - 9.00 : LS Vf nonpl brn moist
9.00 - 15.00 : LS F nonpl brn moist

Borehole b200544 **Sta.** b27 **Off.** -30.0 **Chain Name** a
Driller wo mg m **Unit #** 200536 **Water Depth** **Refusal Depth**
Date Drilled 9/1/2020 **X:** 531424.3700 **Y:** 343282.1060 **ELEV:** 990.4
Borehole Comments , Loc=Median , LaneDir=DEC
Top - Bottom : Description
0.00 - 0.20 : ts
0.20 - 6.00 : LS F nonpl brn wet
6.00 - 15.00 : SL Vf slpl brn wet

Borehole b200545 **Sta.** b28 **Off.** -30.0 **Chain Name** a
Driller wo mg m **Unit #** 200536 **Water Depth** **Refusal Depth**
Date Drilled 9/1/2020 **X:** 533996.5070 **Y:** 346480.4570 **ELEV:** 1008.3
Borehole Comments , Loc=Median , LaneDir=DEC
Top - Bottom : Description
0.00 - 0.20 : ts
0.20 - 3.50 : SL F slpl brn moist
3.50 - 6.00 : LS Vf nonpl brn moist
6.00 - 9.00 : SL F pl brn moist
9.00 - 15.00 : LS F nonpl brn moist

Borehole b200546 **Sta.** b29 **Off.** -30.0 **Chain Name** a
Driller wo mg m **Unit #** 200536 **Water Depth** **Refusal Depth**
Date Drilled 9/1/2020 **X:** 534082.2820 **Y:** 346520.9410 **ELEV:** 1013.3
Borehole Comments , Loc=Median , LaneDir=INC
Top - Bottom : Description
0.00 - 0.20 : ts
0.20 - 11.00 : SL F pl brn moist
11.00 - 15.00 : LS F nonpl brn moist

Borehole b200547 **Sta.** b30 **Off.** -29.0 **Chain Name** a
Driller wo mg m **Unit #** 200536 **Water Depth** **Refusal Depth**
Date Drilled 9/1/2020 **X:** 536470.2090 **Y:** 350998.8680 **ELEV:** 1018.4
Borehole Comments , Loc=Median , LaneDir=INC
Top - Bottom : Description
0.00 - 0.10 : ts
0.10 - 11.00 : SL F slpl brn moist
11.00 - 15.00 : LS F nonpl brn moist

Borehole b200549 **Sta.** b31 **Off.** -28.0 **Chain Name** a
Driller wo mg m **Unit #** 200536 **Water Depth** **Refusal Depth**
Date Drilled 9/1/2020 **X:** 564605.2420 **Y:** 203089.9740 **ELEV:** 1052.5
Borehole Comments , Loc=Median , LaneDir=INC
Top - Bottom : Description
0.00 - 0.30 : ts
0.30 - 2.50 : LS F nonpl gry moist
2.50 - 12.00 : LS Cr nonpl brn moist
12.00 - 15.00 : LS Cr nonpl brn wet

Borehole b200548 **Sta.** b32 **Off.** -31.0 **Chain Name** a
Driller wo mg m **Unit #** 200536 **Water Depth** **Refusal Depth**
Date Drilled 9/1/2020 **X:** 565628.7600 **Y:** 203105.5700 **ELEV:** 1012.5
Borehole Comments , Loc=Median , LaneDir=INC
Top - Bottom : Description
0.00 - 0.10 : ts
0.10 - 7.00 : LS Cr nonpl brn moist
7.00 - 14.00 : LS Cr nonpl brn wet
14.00 - 15.00 : LS Cr nonpl gry wet

Borehole b200742 **Sta.** b33 **Off.** -31.0 **Chain Name** a
Driller jb wo mg **Unit #** 200536 **Water Depth** **Refusal Depth**
Date Drilled 11/4/2020 **X:** 518397.2840 **Y:** 311978.2760 **ELEV:** 961.5
Borehole Comments RP205.038, Loc=Median , LaneDir=DEC
Top - Bottom : Description
0.00 - 0.20 : ts
0.20 - 10.00 : LS F nonpl brn moist

Borehole b200741 **Sta.** b34 **Off.** -31.0 **Chain Name** a
Driller jb wo mg **Unit #** 200536 **Water Depth** **Refusal Depth**
Date Drilled 11/4/2020 **X:** 518592.0520 **Y:** 310807.2030 **ELEV:** 952.1
Borehole Comments RP204.797, Loc=Median , LaneDir=DEC
Top - Bottom : Description
0.00 - 0.20 : ts
0.20 - 8.00 : LS F nonpl brn moist
8.00 - 10.00 : LS Cr nonpl brn wet

Borehole b200740 **Sta.** b35 **Off.** -29.0 **Chain Name** a
Driller jb wo mg **Unit #** 200536 **Water Depth** **Refusal Depth**
Date Drilled 11/4/2020 **X:** 519827.3320 **Y:** 306296.6540 **ELEV:** 942.5
Borehole Comments RP203.924, Loc=Median , LaneDir=INC
Top - Bottom : Description
0.00 - 0.20 : ts
0.20 - 10.00 : LS F nonpl brn moist

Borehole b200739 **Sta.** b36 **Off.** -30.0 **Chain Name** a
Driller jb wo mg **Unit #** 200536 **Water Depth** **Refusal Depth**
Date Drilled 11/4/2020 **X:** 519814.0190 **Y:** 306275.0520 **ELEV:** 955.9
Borehole Comments RP203.922, Loc=Median , LaneDir=DEC
Top - Bottom : Description
0.00 - 0.20 : ts
0.20 - 10.00 : LS F nonpl brn moist

Borehole b200738 **Sta.** b37 **Off.** -29.0 **Chain Name** a
Driller jb wo mg **Unit #** 200536 **Water Depth** **Refusal Depth**
Date Drilled 11/4/2020 **X:** 519573.6160 **Y:** 300608.9960 **ELEV:** 951.3
Borehole Comments RP202.794, Loc=Median , LaneDir=DEC
Top - Bottom : Description
0.00 - 0.20 : ts
0.20 - 10.00 : LS F nonpl brn moist

Borehole b200737 **Sta.** b38 **Off.** -30.0 **Chain Name** a
Driller jb wo mg **Unit #** 200536 **Water Depth** **Refusal Depth**
Date Drilled 11/4/2020 **X:** 519539.8330 **Y:** 300389.7380 **ELEV:** 958.6
Borehole Comments RP202.754, Loc=Median , LaneDir=INC
Top - Bottom : Description
0.00 - 0.20 : ts
0.20 - 7.00 : LS F nonpl brn moist
7.00 - 10.00 : LS F nonpl brn wet

Borehole b200736 **Sta.** b39 **Off.** -33.0 **Chain Name** a
Driller jb wo mg **Unit #** 200536 **Water Depth** **Refusal Depth**
Date Drilled 11/4/2020 **X:** 518909.0680 **Y:** 296688.1870 **ELEV:** 963.4
Borehole Comments RP202.052, Loc=Median , LaneDir=DEC
Top - Bottom : Description
0.00 - 2.00 : ts
2.00 - 10.00 : LS F nonpl brn moist