



**GEOTEK ENGINEERING
& TESTING SERVICES, INC.**

909 East 50th Street North
Sioux Falls, South Dakota 57104
Phone 605-335-5512 Fax 605-335-0773

July 30, 2018

Banner Associates, Inc.
PO Box 298
Brookings, South Dakota 57006-0298

Attn: Scott Vander Meulen, PE

Subj: Test Boring
298th Street
Near Alcester, South Dakota
GeoTek #18-986

This correspondence presents our reporting of the recent test boring for the referenced project. Our work was performed in accordance with your authorization.

One (1) test boring was performed on July 27, 2018. The test boring was performed near station 952+80. The ground surface elevation at the test boring location was 1,205.4 feet.

The subsurface conditions encountered at the test boring location consisted of 4 ½ feet of topsoil materials overlying fine alluvium soils. The fine alluvium soils extended to a depth of 22 feet. Coarse alluvium soils were encountered beneath the fine alluvium soils and extended to the termination depth of the test boring. The test boring was terminated at a depth of 31 feet.

We trust this report provides you with the necessary information for the project. If you have any questions or require additional information, please contact our office.

GeoTek Engineering & Testing Services, Inc.

Jared Haskins

Jared Haskins, PE
Geotechnical Manager



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GEOTECHNICAL TEST BORING LOG

GEOTEK # 18-986

BORING NO. 1 (1 of 1)

PROJECT Test Boring, 298th Street, Near Alcester, SD

DEPTH in FEET	DESCRIPTION OF MATERIAL	GEOLOGIC ORIGIN	N	WL	SAMPLE		LABORATORY TESTS										
					NO.	TYPE	WC	D	LL	PL	QU						
	↓ SURFACE ELEVATION <u>1205.4 ft</u>																
	LEAN CLAY: black, moist, (CL)	TOPSOIL				1	HSA										
4½	LEAN CLAY: dark gray, moist to wet, firm, (CL)	FINE ALLUVIUM	6			2	SPT										
9½	LEAN CLAY: gray, moist to wet, soft to firm, (CL)	FINE ALLUVIUM	4			3	SPT										
22	SAND WITH SILT: a little gravel, medium to coarse grained, brown, waterbearing, dense, (SP-SM)	COARSE ALLUVIUM	24			6	SPT										
24½	SAND: a little gravel, fine to medium grained, grayish brown, waterbearing, medium dense to dense, (SP)	COARSE ALLUVIUM	19			7	SPT										
31																	
	Bottom of borehole at 31 feet.																

GEOTECHNICAL TEST BORING 18-986.GPJ - GEOTEKENG.GDT 7/30/18

WATER LEVEL MEASUREMENTS

START 7-27-18 COMPLETE 7-27-18

DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	WATER LEVEL	METHOD
7-27-18	--	31	--	18	12	3.25" ID Hollow Stem Auger
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