

SCDOT Soil Test Log

Project ID:	P043789	County:	Jasper County	Boring No.:	B-1
Site Description:	US 278 over Beaver Dam Branch			Route:	US 278
Eng./Geo.:	G. Cantelle	Boring Location:		Offset:	
Elev.:	ft	Latitude:		Longitude:	
Total Depth:	120 ft	Soil Depth:	120 ft	Core Depth:	0 ft
Date Started:	10/18/2024				
Date Completed:	10/19/2024				
Bore Hole Diameter (in):	4.0	Sampler Configuration		Liner Required:	Y (N)
Liner Used:	Y (N)				
Drill Machine:	CME 45B	Drill Method:	RW	Hammer Type:	Automatic
Energy Ratio:	86.4%				
Core Size:	N/A	Driller:	D. Harris	Groundwater:	TOB DH
24HR:	DH				

Elevation (ft)	Depth (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	4th 6"	N Value	SPT N VALUE	PL	MC	LL	FINES CONTENT (%)	RQD (%)	REC (%)
	0.0																
	0.4	ASPHALT (5.0-in.)		0.0	SS-1	1	7	12	15	19							
		EXISTING FILL		2.0	SS-2	7	20	12	12	32							
		Medium Dense to Dense, Moist to Dry, Pale Brown, Non-Plastic to Low Plasticity, Silty Fine to Medium SAND (SM/A-2-4), No HCl Reaction, 2.5Y7/4		4.0	SS-3	8	9	8	11	17							
		@SS-2: Light Brownish Gray, 2.5Y6/2		6.0	SS-4	5	6	5	4	11							
		@SS-3: Grayish Brown, 2.5Y5/2		8.0	SS-5	2	3	2	3	5							
		@SS-5: Loose, Gray, Fine to Medium Sand Particles, 5Y6/1															
		@SS-4: Moist, Light Brownish Gray, Fine to Coarse Sand Particles with Trace Gravel, 2.5Y6/2															
		ALLUVIUM (Holocene)															
		Loose, Moist, Light Brownish Gray, Non-Plastic to Low Plasticity, Silty Fine to Coarse SAND (SM/A-2-4) with Trace Gravel, 2.5Y6/2															
	13.5	@SS-6: No Recovery		13.5	SS-6	WOH	2	2		4							
	18.5	Loose, Moist, Black, Non-Plastic, Fine to Coarse Poorly Graded SAND (SP/A-3), no HCl Reaction, 2.5Y2.5/1		18.5	SS-7	2	3	3		6							
	23.5	HAWTHORNE FORMATION (Miocene)		23.5	SS-8	7	10	12		22							
		Medium Dense, Moist, Greenish Gray, Non-Plastic to Low Plasticity, Silty Fine to Coarse SAND (SM/A-2-4), Calcereous, No to Weak HCl Reaction, 5GY6/1															
		@SS-9: 5GY5/1		28.5	SS-9	4	5	9		14							

LEGEND

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SAMPLER TYPE		DRILLING METHOD	
SS	- Split Spoon	HSA	- Hollow Stem Auger
UD	- Undisturbed Sample	CFA	- Continuous Flight Augers
AWG	- Rock Core, 1-1/8"	DC	- Driving Casing
NQ	- Rock Core, 1-7/8"	RW	- Rotary Wash
CU	- Cuttings	RC	- Rock Core
CT	- Continuous Tube		

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Liner Used:	Y (N)				
Drill Machine:	CME 45B	Drill Method:	RW	Hammer Type:	Automatic
Energy Ratio:	86.4%				
Core Size:	N/A	Driller:	D. Harris	Groundwater:	TOB DH
24HR:	DH				

Elevation (ft)	Depth (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	4th 6"	N Value	<div> ● SPT N VALUE ● PL X MC X LL X ▲ FINES CONTENT (%) + RQD (%) ■ REC (%) </div>
		@SS-10: Fine to Medium Sand Particles, Glauconitic, No HCl Reaction		33.5	SS-10	5	8	13		21	●
	38.5	Very Stiff, Moist to Dry, Dark Grayish Olive, Non-Plastic to Low Plasticity, Sandy <u>SILT</u> (ML/A-4), No HCl Reaction, 10Y4/2		38.5	SS-11	8	9	13		22	●
				43.5	SS-12	11	9	12		21	●
		@SS-13: Weak HCl Reaction		48.5	SS-13	5	8	17		25	●
	54.3	Very Dense, Moist to Dry, White, Non-Plastic to Low Plasticity, Silty Fine to Coarse <u>SAND</u> (SM/A-2-4), Cap Rock Lense, Strong HCl Reaction, N8/		53.5	SS-14	4	50/5"			100+	●
		@SS-15: Medium Dense, Moist, Dark Grayish Olive, Calcereous, Weak HCl Reaction, 10Y4/2		58.5	SS-15	5	6	11		17	●

LEGEND

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SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

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Bore Hole Diameter (in): 4.0		Sampler Configuration		Liner Required: Y (N)	
Drill Machine: CME 45B		Drill Method: RW		Hammer Type: Automatic	
Core Size: N/A		Driller: D. Harris		Energy Ratio: 86.4%	
		Groundwater: TOB DH		24HR: DH	

Elevation (ft)	Depth (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	4th 6"	N Value	<div> ● SPT N VALUE ● PL — MC — LL X — X — X ▲ FINES CONTENT (%) + RQD (%) ■ REC (%) </div>
	63.5	Stiff to Very Stiff, Moist, Dark Grayish Olive, Non-Plastic to Low Plasticity, Sandy <u>SILT</u> (ML/A-4), No HCl Reaction, 10Y4/2		63.5	SS-16	4	5	10		15	●
		@SS-17: Calcereous, No to Weak HCl Reaction		68.5	SS-17	9	8	12		20	●
		@SS-18: Very Dark Grayish Green, Slight HCl Reaction, 5GY3/2		73.5	SS-18	7	13	12		15	●
				78.5	SS-19	4	4	7		11	●
				83.5	SS-20	5	6	8		14	●
		@SS-21: Very Dark Grayish Olive, 10Y3/2		88.5	SS-21	4	7	10		17	●

LEGEND

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SAMPLER TYPE		DRILLING METHOD	
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AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

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93.5	93.5	Stiff, Moist, Very Dark Grayish Olive, Non-Plastic to Low Plasticity, <u>SILT (ML/A-4)</u> , Calcereous, No to Weak HCl Reaction, 10Y3/2		93.5	SS-22	6	6	9		15	●
98.5	98.5	Very Stiff, Moist, Very Dark Grayish Olive, Non-Plastic to Low Plasticity, Sandy <u>SILT (ML/A-4)</u> , Calcereous, No to Weak HCl Reaction, 10Y3/2		98.5	SS-23	9	12	15		27	●
103.5	103.5	Medium Dense, Moist, White, Non-Plastic, Silty Fine to Coarse <u>SAND (SM/A-2-4)</u> with Trace Shells (Limestone), Strong HCl Reactionm N8/		103.5	SS-24	10	9	11		20	●
		@SS-25: with Trace Gravel		108.5	SS-25	9	10	11		21	●
				113.5	SS-24	10	10	12		22	●
				118.5	SS-25	11	9	13		22	●
120.0	120.0	Boring Terminated at Target Depth of 120.0-ft. Boring Achieved Target Depth.									

LEGEND

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SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

SC.DOT G7100.006 - US 278 BEAVERDAM BRANCH.GPJ SCDOT_DATATEMPLATE.GDT 10/21/24