



GEOTECH GRAVEL 446-450.GPJ YTG.GDT 3/13/17

SUBSURFACE EXPLORATION AND TEST REPORT

BOREHOLE NO: 449-02

CLIENT:

PROJECT NO: 091 260001 3505

CAT 225 EXCAVATOR

LOCATION: SEE PLAN

ELEVATION:

SAMPLE TYPE RETURN S.P.T. Auger BULK TUBE CORE

Depth (m)	▲ Percent Fines ▲		◆ Percent Sand ◆		SAMPLE TYPE	Sample #	USC	SOIL SYMBOL	SOIL DESCRIPTION	Depth (m)
	20	40	60	80						
0	PLASTIC M.C. LIQUID								SANDY GRAVEL	0
									SILT (ML) -brown	
1						39	ML		-frozen (NF) below 0.8m -hard digging below 0.8m	1
									END HOLE at 1.2m	
2										2
3										3
4										4
5										5

GEOTECH GRAVEL 446-450.GPJ YTG.GDT 3/13/17



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: D.T.

COMPLETION DEPTH: 1.20 m

REVIEWED BY:

COMPLETION DATE: 5/15/97

SUBSURFACE EXPLORATION AND TEST REPORT BOREHOLE NO: 449-03

CLIENT: PROJECT NO: 091 260001 3505

CAT 225 EXCAVATOR LOCATION: SEE PLAN ELEVATION:

SAMPLE TYPE RETURN S.P.T. Auger BULK TUBE CORE

Depth (m)	<div style="text-align: center;">▲ Percent Fines ▲</div> <div style="text-align: center;">20 40 60 80</div> <div style="text-align: center;">PLASTIC M.C. LIQUID</div> <div style="text-align: center;">20 40 60 80</div>	<div style="text-align: center;">◆ Percent Sand ◆</div> <div style="text-align: center;">20 40 60 80</div> <div style="text-align: center;">■ Percent Gravel ■</div> <div style="text-align: center;">20 40 60 80</div>	SAMPLE TYPE	Sample #	USC	SOIL SYMBOL	SOIL DESCRIPTION	Depth (m)
0							SANDY GRAVEL	0
							SILT (ML) -light brown -trace sand	
1								1
2								2
3		▲ ■		40		ML		3
							END HOLE at 3.0m	
4								4
5								5

GEOTECH GRAVEL 446-450.GPJ YTG.GDT 3/13/17



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SAMPLE TYPE RETURN S.P.T. Auger BULK TUBE CORE

Depth (m)	▲ Percent Fines ▲ 20 40 60 80 PLASTIC M.C. LIQUID 20 40 60 80	◆ Percent Sand ◆ 20 40 60 80 ■ Percent Gravel ■ 20 40 60 80	SAMPLE TYPE	Sample #	USC	SOIL SYMBOL	SOIL DESCRIPTION	Depth (m)
0							SANDY GRAVEL -brown -damp -maximum 150mm material	0
1							SILT (ML) -light brown -trace sand	1
2	▲		■	41	ML	▨	END HOLE at 2.0m	2
3								3
4								4
5								5

GEOTECH GRAVEL 446-450.GPJ YTG.GDT 3/13/17



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SUBSURFACE EXPLORATION AND TEST REPORT		BOREHOLE NO: 449-05				
CLIENT:		PROJECT NO: 091 260001 3505				
CAT 225 EXCAVATOR		LOCATION: SEE PLAN				
ELEVATION:						
SAMPLE TYPE		RETURN <input type="checkbox"/> S.P.T. <input type="checkbox"/> Auger <input checked="" type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE <input type="checkbox"/>				
Depth (m)	▲ Percent Fines ▲ 20 40 60 80	SAMPLE TYPE	USC	SOIL SYMBOL	SOIL DESCRIPTION	Depth (m)
	PLASTIC M.C. LIQUID 20 40 60 80					
0					POORLY GRADED GRAVEL WITH SAND (GP) -brown -moist -maximum 200mm material -estimate 10% +100mm material	0
1					SILT -light brown -trace sand	1
2						2
3						3
4						4
5					END HOLE at 2.4m	5

GEOTECH GRAVEL 446-450.GPJ YTG.GDT 3/13/17

SUBSURFACE EXPLORATION AND TEST REPORT BOREHOLE NO: 449-06

CLIENT: PROJECT NO: 091 260001 3505

CAT 225 EXCAVATOR LOCATION: SEE PLAN ELEVATION:

SAMPLE TYPE RETURN S.P.T. Auger BULK TUBE CORE

Depth (m)	▲ Percent Fines ▲ 20 40 60 80 PLASTIC M.C. LIQUID 20 40 60 80	◆ Percent Sand ◆ 20 40 60 80 ■ Percent Gravel ■ 20 40 60 80	SAMPLE TYPE	Sample #	USC	SOIL SYMBOL	SOIL DESCRIPTION	Depth (m)
0				43	GP		POORLY GRADED GRAVEL WITH SAND (GP) -brown -damp -maximum 150mm material -estimate 10% +100mm material	0
1								1
2							SILT -light brown -trace sand	2
3							END HOLE at 2.0m	3
4								4
5								5

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SUBSURFACE EXPLORATION AND TEST REPORT		BOREHOLE NO: 449-07					
CLIENT:		PROJECT NO: 091 260001 3505					
CAT 225 EXCAVATOR		LOCATION: SEE PLAN					
ELEVATION:							
SAMPLE TYPE		RETURN					
S.P.T.		Auger					
BULK		TUBE					
CORE							
Depth (m)	▲ Percent Fines ▲ 20 40 60 80	SAMPLE TYPE	Sample #	USC	SOIL SYMBOL	SOIL DESCRIPTION	Depth (m)
	PLASTIC M.C. LIQUID 20 40 60 80						
0						SILTY SAND ORGANIC POORLY GRADED GRAVEL WITH SAND -brown -damp -maximum 150mm material -estimate 10% +100mm material	0
1			44	GP			1
2						SANDY SILT -brown -trace organic POORLY GRADED GRAVEL WITH SAND (GP) -brown -damp -maximum 150mm material -estimate 10% +100mm material	2
3			45	GP			3
4						SILT -light brown -moist	4
5						END HOLE at 4.4m	5

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REVIEWED BY:

COMPLETION DEPTH: 4.40 m

COMPLETION DATE: 5/15/97

SUBSURFACE EXPLORATION AND TEST REPORT		BOREHOLE NO: 449-08			
CLIENT:		PROJECT NO: 091 260001 3505			
CAT 225 EXCAVATOR		LOCATION: SEE PLAN			
ELEVATION:					
SAMPLE TYPE		RETURN			
S.P.T.		Auger			
BULK		TUBE			
CORE					
Depth (m)	▲ Percent Fines ▲ 20 40 60 80 PLASTIC M.C. LIQUID 20 40 60 80	◆ Percent Sand ◆ 20 40 60 80 ■ Percent Gravel ■ 20 40 60 80	SAMPLE TYPE Sample # USC SOIL SYMBOL	SOIL DESCRIPTION	Depth (m)
0				SAND -brown -damp -trace +5mm material -trace silt	0
1			46 SP	POORLY GRADED SAND WITH GRAVEL TO WELL- -brown -damp -maximum 150mm material -estimate 5% +100mm material GRADED GRAVEL WITH SAND (SP) - (GW)	1
2			47 GW	-maximum 250mm material below 2.4m -estimate 20% +100mm material below 2.4	2
3				SANDY SILT -brown -moist SANDY GRAVEL -brown -moist -maximum 150mm material -estimate 10% +100mm material	3
4				END HOLE at 3.8m	4
5					5

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LOGGED BY: D.T.

REVIEWED BY:

COMPLETION DEPTH: 3.80 m

COMPLETION DATE: 5/15/97

SUBSURFACE EXPLORATION AND TEST REPORT		BOREHOLE NO: 449-09			
CLIENT:		PROJECT NO: 091 260001 3505			
CAT 225 EXCAVATOR		LOCATION: SEE PLAN			
ELEVATION:					
SAMPLE TYPE		RETURN <input type="checkbox"/> S.P.T. <input type="checkbox"/> Auger <input checked="" type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE <input type="checkbox"/>			
Depth (m)	▲ Percent Fines ▲ 20 40 60 80	◆ Percent Sand ◆ 20 40 60 80	■ Percent Gravel ■ 20 40 60 80	SOIL DESCRIPTION	Depth (m)
	PLASTIC M.C. LIQUID 20 40 60 80				
0				SAND, SILT AND ORGANIC	0
				SANDY SILT -brown -moist	
				POORLY GRADED GRAVEL WITH SAND (GP) -brown -damp -maximum 200mm material -estimate 10% +100mm material	
1	▲	◆	■	GP	1
				SILT -light brown -frozen (NF) -trace sand	
2				END HOLE at 2.8m	2
3					3
4					4
5					5

GEOTECH GRAVEL 446-450.GPJ YTG.GDT 3/13/17



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LOGGED BY: D.T.

COMPLETION DEPTH: 2.80 m

REVIEWED BY:

COMPLETION DATE: 5/15/97

SUBSURFACE EXPLORATION AND TEST REPORT		BOREHOLE NO: 449-11				
CLIENT:		PROJECT NO: 091 260001 3505				
CAT 225 EXCAVATOR		LOCATION: SEE PLAN				
ELEVATION:						
SAMPLE TYPE		RETURN <input type="checkbox"/> S.P.T. <input type="checkbox"/> Auger <input checked="" type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE <input type="checkbox"/>				
Depth (m)	▲ Percent Fines ▲ 20 40 60 80	SAMPLE TYPE	USC	SOIL SYMBOL	SOIL DESCRIPTION	Depth (m)
	PLASTIC M.C. LIQUID 20 40 60 80					
0					SILTY SAND -some organic -brown -damp	0
1					POORLY GRADED SAND WITH GRAVEL TO POORLY GRADED GRAVEL WITH SAND (SP) -(GP) -brown -damp -maximum 150mm material -estimate 5% +100mm material	1
2						
3						
3					END HOLE at 3.0m -due to caving	3
4						
5						

GEOTECH GRAVEL 446-450.GPJ YTG.GDT 3/13/17



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SUBSURFACE EXPLORATION AND TEST REPORT		BOREHOLE NO: 449-12			
CLIENT:		PROJECT NO: 091 260001 3505			
CAT 225 EXCAVATOR		LOCATION: SEE PLAN			
ELEVATION:					
SAMPLE TYPE		RETURN <input type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> Auger <input checked="" type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE <input type="checkbox"/>			
Depth (m)	▲ Percent Fines ▲ 20 40 60 80	SAMPLE TYPE	SOIL SYMBOL	SOIL DESCRIPTION	Depth (m)
	PLASTIC M.C. LIQUID 20 40 60 80				
0				SAND AND SILT WITH ORGANIC	0
				POORLY GRADED GRAVEL WITH SAND (GP) -brown -moist -maximum 200mm material -estimate 10% +100mm material	
1		52	GP		1
				SILT -brown -frozen (NF) END HOLE 2.0m	
2					2
3					3
4					4
5					5

GEOTECH GRAVEL 446-450.GPJ YTG.GDT 3/13/17



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LOGGED BY: D.T.

REVIEWED BY:

COMPLETION DEPTH: 2.00 m

COMPLETION DATE: 5/15/97

SUBSURFACE EXPLORATION AND TEST REPORT		BOREHOLE NO: 449-13			
CLIENT:		PROJECT NO: 091 260001 3505			
CAT 225 EXCAVATOR		LOCATION: SEE PLAN			
ELEVATION:					
SAMPLE TYPE		RETURN <input type="checkbox"/> S.P.T. <input type="checkbox"/> Auger <input checked="" type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE <input type="checkbox"/>			
Depth (m)	▲ Percent Fines ▲ 20 40 60 80	◆ Percent Sand ◆ 20 40 60 80	■ Percent Gravel ■ 20 40 60 80	SOIL DESCRIPTION	Depth (m)
	PLASTIC M.C. LIQUID 20 40 60 80				
0				SAND, SOME SILT, TRACE ORGANIC	0
				POORLY GRADED SAND WITH GRAVEL (SP) -brown -damp -maximum 150mm material -estimate 10% +100mm material	
1				SP	1
				SILT -brown -frozen (NF) -trace sand	
2					2
				SANDY GRAVEL -brown -moist -maximum 150mm material -estimate 15% +100mm material -trace silt	
3					3
				END HOLE at 4.0m	
4					4
5					5

GEOTECH GRAVEL 446-450.GPJ YTG.GDT 3/13/17



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LOGGED BY: D.T.	COMPLETION DEPTH: 4.00 m
REVIEWED BY:	COMPLETION DATE: 5/15/97
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SUBSURFACE EXPLORATION AND TEST REPORT		BOREHOLE NO: 449-14			
CLIENT:		PROJECT NO: 091 260001 3505			
CAT 225 EXCAVATOR		LOCATION: SEE PLAN			
ELEVATION:					
SAMPLE TYPE		RETURN <input type="checkbox"/> S.P.T. <input type="checkbox"/> Auger <input checked="" type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE <input type="checkbox"/>			
Depth (m)	▲ Percent Fines ▲ 20 40 60 80	◆ Percent Sand ◆ 20 40 60 80	■ Percent Gravel ■ 20 40 60 80	SOIL DESCRIPTION	Depth (m)
	PLASTIC M.C. LIQUID 20 40 60 80				
0				SILTY SAND WITH ORGANIC -brown -damp -trace +5mm material	0
1					1
2		◆ ■	54	GP POORLY GRADED GRAVEL WITH SAND (GP) -brown -damp -maximum 200mm material -estimate 10% +100mm material	2
3				SILT -brown -frozen (Nb)	3
4				SANDY GRAVEL -brown -damp -trace silt -maximum 150mm material -estimate 10% +100mm material	4
5				END HOLE at 4.1m -silt showing at bottom of test pit	5

GEOTECH GRAVEL 446-450.GPJ YTG-GDT 3/13/17



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: D.T.

REVIEWED BY:

COMPLETION DEPTH: 4.10 m

COMPLETION DATE: 5/15/97

SUBSURFACE EXPLORATION AND TEST REPORT		BOREHOLE NO: 449-15			
CLIENT:		PROJECT NO: 091 260001 3505			
CAT 225 EXCAVATOR		LOCATION: SEE PLAN			
ELEVATION:					
SAMPLE TYPE		RETURN <input type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> Auger <input checked="" type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE <input type="checkbox"/>			
Depth (m)	▲ Percent Fines ▲ 20 40 60 80	SAMPLE TYPE	SOIL SYMBOL	SOIL DESCRIPTION	Depth (m)
	PLASTIC M.C. LIQUID 20 40 60 80				
0				SAND, SILT AND ORGANIC	0
1	▲	◆	■	POORLY GRADED GRAVEL WITH SAND (GP) -brown -moist -maximum 200mm material -estimate 15% +100mm material	1
2				-silt layer 1.5m to 1.6m	2
3	▲	◆	■	-estimate 20% +100mm material below 3m	3
4				END HOLE at 3.5m m -due to caving -silt observed below 3.5m	4
5					5

GEOTECH GRAVEL 446-450.GPJ YTG.GDT 3/13/17