

PROJECT: PIN-3 DLCU SITE INVESTIGATION		LOCATION: SEE SITE PLAN		BOREHOLE NO: UMA0108	
CLIENT: DEFENCE CONSTRUCTION CANADA		DRILLING METHOD: HAND		PROJECT NO: 0171-095-75-01	
PROJECT ENGINEER: RRM				ELEVATION:	
SAMPLE TYPE <input checked="" type="checkbox"/> GRAB SAMPLE <input type="checkbox"/> SHELBY TUBE <input checked="" type="checkbox"/> SPT SAMPLE <input type="checkbox"/> A-CASING <input type="checkbox"/> NO RECOVERY <input type="checkbox"/> CORE SAMPLE BACKFILL TYPE <input checked="" type="checkbox"/> BENTONITE <input type="checkbox"/> PEA GRAVEL <input type="checkbox"/> SLOUGH <input type="checkbox"/> GROUT <input type="checkbox"/> DRILL CUTTINGS <input type="checkbox"/> SIL 9 SAND					

DEPTH(m)	USC	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	<div style="display: flex; justify-content: space-around; align-items: center;"> <div>PLASTIC</div> <div>M.C.</div> <div>LIQUID</div> </div> <div style="text-align: center; margin-top: 5px;"> 20 40 60 80 </div>	WELL INSTALLATION	REMARKS	DEPTH(ft)
0.0	OL		TOPSOIL - sandy, organic rich, rootlets						0.0
	SW		SAND - trace gravel, trace fines, uniform, medium grained, moist to wet						
	GW		GRAVEL - some cobbles (platey, 5 cm dia. max) sandy, well graded,		1				
			END OF TEST PIT - saturated						
2.0									2.0
1.0									4.0
									6.0

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PROJECT: PIN-3 DLCU SITE INVESTIGATION		LOCATION: SEE SITE PLAN		BOREHOLE NO: UMA0109	
CLIENT: DEFENCE CONSTRUCTION CANADA		DRILLING METHOD: HAND		PROJECT NO: 0171-095-75-01	
PROJECT ENGINEER: RRM				ELEVATION:	
SAMPLE TYPE		<input checked="" type="checkbox"/> GRAB SAMPLE	<input type="checkbox"/> SHELBY TUBE	<input checked="" type="checkbox"/> SPT SAMPLE	<input type="checkbox"/> A-CASING
BACKFILL TYPE		<input type="checkbox"/> BENTONITE	<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT
		<input type="checkbox"/> NO RECOVERY	<input type="checkbox"/> CORE SAMPLE		<input type="checkbox"/> DRILL CUTTINGS
		<input type="checkbox"/> SIL 9 SAND			

DEPTH(m)	USC	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	WELL INSTALLATION	REMARKS	DEPTH(ft)
0.0	OL		TOPSOIL - sandy, organic rich, rootlets					0.0
	GW		GRAVEL - well graded, sandy, some organic fines well draining, wet					
			END OF TEST PIT					
1.0								
2.0								

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		REVIEWED BY: GJE	COMPLETE: 08/07/01
		Fig. No:	Page 1 of 1

PROJECT: PIN-3 DLCU SITE INVESTIGATION				LOCATION: SEE SITE PLAN				BOREHOLE NO: UMA0110			
CLIENT: DEFENCE CONSTRUCTION CANADA				DRILLING METHOD: HAND				PROJECT NO: 0171-095-75-01			
PROJECT ENGINEER: RRM								ELEVATION:			
SAMPLE TYPE		<input checked="" type="checkbox"/> GRAB SAMPLE	<input type="checkbox"/> SHELBY TUBE	<input checked="" type="checkbox"/> SPT SAMPLE	<input type="checkbox"/> A-CASING	<input type="checkbox"/> NO RECOVERY	<input type="checkbox"/> CORE SAMPLE				
BACKFILL TYPE		<input checked="" type="checkbox"/> BENTONITE	<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input type="checkbox"/> DRILL CUTTINGS	<input type="checkbox"/> SIL 9 SAND				

DEPTH(m)	USC	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	<div style="display: flex; justify-content: space-between; font-size: 0.8em;"> PLASTIC M.C. LIQUID </div> <div style="text-align: center; margin-top: 5px;"> <div style="width: 100px; border-bottom: 1px solid black; position: relative;"> <div style="position: absolute; left: 0; bottom: -5px;">20</div> <div style="position: absolute; left: 20%; bottom: -5px;">40</div> <div style="position: absolute; left: 40%; bottom: -5px;">60</div> <div style="position: absolute; left: 60%; bottom: -5px;">80</div> </div> </div>	WELL INSTALLATION	REMARKS	DEPTH(ft)
0.0		SW	SAND - medium grained, uniform, oxidized, wet - oxidation ends, sand is pinkish grey trace gravel, trace silt - saturated - some cobbles (platey, 5 cm dia. max)		1				0.0
			END OF TEST PIT - too much sloughing						2.0
1.0									
									4.0
									6.0
2.0									

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				REVIEWED BY: GJE		COMPLETE: 08/07/01	
				Fig. No:		Page 1 of 1	

PROJECT: PIN-3 DLCU SITE INVESTIGATION		LOCATION: SEE SITE PLAN		BOREHOLE NO: UMA0111	
CLIENT: DEFENCE CONSTRUCTION CANADA		DRILLING METHOD: HAND		PROJECT NO: 0171-095-75-01	
PROJECT ENGINEER: RRM				ELEVATION:	
SAMPLE TYPE		<input checked="" type="checkbox"/> GRAB SAMPLE	<input checked="" type="checkbox"/> SHELBY TUBE	<input checked="" type="checkbox"/> SPT SAMPLE	<input type="checkbox"/> A-CASING
BACKFILL TYPE		<input type="checkbox"/> BENTONITE	<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT
		<input type="checkbox"/> NO RECOVERY	<input type="checkbox"/> CORE SAMPLE		
		<input type="checkbox"/> DRILL CUTTINGS	<input type="checkbox"/> SIL 9 SAND		

DEPTH(m)	USC	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	<div style="display: flex; justify-content: space-between; font-size: 0.8em;"> PLASTIC M.C. LIQUID </div> <div style="text-align: center; margin-top: 5px;"> <div style="width: 100px; border-bottom: 1px solid black; position: relative;"> <div style="position: absolute; left: 0; bottom: -2px; width: 20px; height: 2px; background-color: black;"></div> <div style="position: absolute; right: 0; bottom: -2px; width: 20px; height: 2px; background-color: black;"></div> </div> <div style="display: flex; justify-content: space-between; width: 100px; font-size: 0.7em;"> 20 40 60 80 </div> </div>	WELL INSTALLATION	REMARKS	DEPTH(ft)
0.0			SAND - trace rounded cobbles and gravel, trace fines, pinkish grey, black organic beds, medium grained, wet						0.0
	SW		- saturated - black fibrous mat of organics						
			END OF TEST PIT - too much sloughing						2.0
1.0									
									4.0
									6.0
2.0									

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PROJECT: PIN-3 DLCU SITE INVESTIGATION		LOCATION: SEE SITE PLAN		BOREHOLE NO: UMA0112	
CLIENT: DEFENCE CONSTRUCTION CANADA		DRILLING METHOD: HAND		PROJECT NO: 0171-095-75-01	
PROJECT ENGINEER: RRM		ELEVATION:			
SAMPLE TYPE		<input checked="" type="checkbox"/> GRAB SAMPLE	<input checked="" type="checkbox"/> SHELBY TUBE	<input checked="" type="checkbox"/> SPT SAMPLE	<input type="checkbox"/> A-CASING
BACKFILL TYPE		<input type="checkbox"/> BENTONITE	<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT
		<input type="checkbox"/> NO RECOVERY	<input type="checkbox"/> CORE SAMPLE		
		<input checked="" type="checkbox"/> DRILL CUTTINGS		<input type="checkbox"/> SIL 9 SAND	

DEPTH(m)	USC	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	<div style="display: flex; justify-content: space-between; font-size: 0.8em;"> PLASTIC M.C. LIQUID </div> <div style="text-align: center; margin-top: 5px;"> <div style="width: 100px; border-bottom: 1px solid black; position: relative;"> <div style="position: absolute; left: 0; bottom: -2px; width: 20px; height: 2px; background-color: black;"></div> <div style="position: absolute; right: 0; bottom: -2px; width: 20px; height: 2px; background-color: black;"></div> </div> <div style="display: flex; justify-content: space-between; width: 100px; font-size: 0.7em;"> 20406080 </div> </div>	WELL INSTALLATION	REMARKS	DEPTH(ft)
0.0			SAND - medium grained, uniform, pinkish grey trace gravel, trace silt						0.0
	SW		- saturated - some cobbles (platey, 5 cm dia. max) - heavily oxidized sand (rust coloured)		1				
			END OF TEST PIT - too much sloughing						2.0
1.0									
									4.0
									6.0
2.0									

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PROJECT: PIN-3 DLCU SITE INVESTIGATION			LOCATION: SEE SITE PLAN			BOREHOLE NO: UMA0113		
CLIENT: DEFENCE CONSTRUCTION CANADA			DRILLING METHOD: HAND			PROJECT NO: 0171-095-75-01		
PROJECT ENGINEER: RRM						ELEVATION:		
SAMPLE TYPE			<input checked="" type="checkbox"/> GRAB SAMPLE	<input checked="" type="checkbox"/> SHELBY TUBE	<input checked="" type="checkbox"/> SPT SAMPLE	<input type="checkbox"/> A-CASING	<input type="checkbox"/> NO RECOVERY	<input type="checkbox"/> CORE SAMPLE
BACKFILL TYPE			<input checked="" type="checkbox"/> BENTONITE	<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input type="checkbox"/> DRILL CUTTINGS	<input type="checkbox"/> SIL 9 SAND

DEPTH(m)	USC	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	<div style="display: flex; justify-content: space-around; align-items: center;"> PLASTIC M.C. LIQUID </div> <div style="text-align: center;"> </div>	WELL INSTALLATION	REMARKS	DEPTH(ft)
0.0		OL	TOPSOIL - sandy, roots						0.0
		SW	SAND - medium grained, well graded, trace fines trace rounded gravel and cobbles, pinkish grey sand		1				
		CW	GRAVEL - well graded, rounded particles, sandy, trace to some fines, saturated (water is murky with silt)						
			END OF TEST PIT - too much sloughing						
2.0									2.0
1.0									4.0
									6.0

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PROJECT: PIN-3 DLCU SITE INVESTIGATION		LOCATION: SEE SITE PLAN		BOREHOLE NO: UMA0114	
CLIENT: DEFENCE CONSTRUCTION CANADA		DRILLING METHOD: HAND		PROJECT NO: 0171-095-75-01	
PROJECT ENGINEER: RRM				ELEVATION:	
SAMPLE TYPE		<input checked="" type="checkbox"/> GRAB SAMPLE	<input type="checkbox"/> SHELBY TUBE	<input checked="" type="checkbox"/> SPT SAMPLE	<input type="checkbox"/> A-CASING
BACKFILL TYPE		<input type="checkbox"/> BENTONITE	<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT
		<input type="checkbox"/> NO RECOVERY	<input type="checkbox"/> CORE SAMPLE	<input type="checkbox"/> DRILL CUTTINGS	<input type="checkbox"/> SIL 9 SAND

DEPTH(m)	USC	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	<div style="display: flex; justify-content: space-around; font-size: 0.8em;"> PLASTIC M.C. LIQUID </div> <div style="text-align: center; margin-top: 5px;"> </div>	WELL INSTALLATION	REMARKS	DEPTH(ft)
0.0	OL		TOPSOIL - sandy, roots						0.0
	SW		SAND - gravelly, trace fines, trace cobbles medium grained, moderately well graded pinkish grey, well draining - saturated, (water is murky)						
			- cobble layer, angular, platy limestone		1				
			END OF TEST PIT - too much sloughing						2.0
1.0									
									4.0
									6.0
2.0									

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		REVIEWED BY: GJE	COMPLETE: 08/08/01
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PROJECT: PIN-3 DLCU SITE INVESTIGATION		LOCATION: SEE SITE PLAN		BOREHOLE NO: UMA0115	
CLIENT: DEFENCE CONSTRUCTION CANADA		DRILLING METHOD: HAND AUGER		PROJECT NO: 0171-095-75-01	
PROJECT ENGINEER: RRM				ELEVATION:	
SAMPLE TYPE		<input checked="" type="checkbox"/> GRAB SAMPLE	<input type="checkbox"/> SHELBY TUBE	<input checked="" type="checkbox"/> SPT SAMPLE	<input type="checkbox"/> A-CASING
BACKFILL TYPE		<input type="checkbox"/> BENTONITE	<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT
		<input type="checkbox"/> NO RECOVERY	<input type="checkbox"/> CORE SAMPLE	<input type="checkbox"/> DRILL CUTTINGS	<input type="checkbox"/> SIL 9 SAND

DEPTH(m)	USC	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	<div style="display: flex; justify-content: space-around; align-items: center;"> <div>PLASTIC</div> <div>M.C.</div> <div>LIQUID</div> </div> <div style="text-align: center; margin-top: 5px;"> <div style="width: 100px; border-bottom: 1px solid black; position: relative;"> <div style="position: absolute; left: 0; top: -5px;">20</div> <div style="position: absolute; left: 33%; top: -5px;">40</div> <div style="position: absolute; left: 66%; top: -5px;">60</div> <div style="position: absolute; left: 100%; top: -5px;">80</div> </div> </div>	WELL INSTALLATION	REMARKS	DEPTH(ft)
0.0		OL	TOPSOIL - sandy, organic rich, rootlets						0.0
		SW	SAND - trace silt, trace gravel, fine to medium grained, well graded, moderate drainage saturated		1				2.0
1.0			END OF TEST PIT - suction too great						4.0
2.0									6.0

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PROJECT: PIN-3 DLCU SITE INVESTIGATION		LOCATION: SEE SITE PLAN		BOREHOLE NO: UMA0116	
CLIENT: DEFENCE CONSTRUCTION CANADA		DRILLING METHOD: HAND		PROJECT NO: 0171-095-75-01	
PROJECT ENGINEER: RRM				ELEVATION:	
SAMPLE TYPE <input checked="" type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> SHELBY TUBE <input checked="" type="checkbox"/> SPT SAMPLE <input type="checkbox"/> A-CASING <input type="checkbox"/> NO RECOVERY <input type="checkbox"/> CORE SAMPLE					
BACKFILL TYPE <input checked="" type="checkbox"/> BENTONITE <input type="checkbox"/> PEA GRAVEL <input type="checkbox"/> SLOUGH <input type="checkbox"/> GROUT <input type="checkbox"/> DRILL CUTTINGS <input type="checkbox"/> SIL 9 SAND					

DEPTH(m)	USC	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	<div style="display: flex; justify-content: space-around; align-items: center;"> <div>PLASTIC</div> <div>M.C.</div> <div>LIQUID</div> </div> <div style="text-align: center;"> <div style="width: 100px; border-bottom: 1px solid black; position: relative; margin: 0 auto;"> 20 80 </div> </div>	WELL INSTALLATION	REMARKS	DEPTH(ft)
0.0		▲▲▲	GRAVEL - sandy, cobbly, some organic fines, wet, cobbles are rounded lithic						0.0
	GW	▲▲▲	- saturated		1				
		▲▲▲							2.0
	SW	▲▲▲	SAND - some gravel, trace silt, medium grained grey, saturated, water is muddy						
		▲▲▲	END OF TEST PIT - too much sloughing						
1.0		▲▲▲							
		▲▲▲							4.0
		▲▲▲							
		▲▲▲							6.0
2.0		▲▲▲							

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PROJECT: PIN-3 DLCU SITE INVESTIGATION		LOCATION: SEE SITE PLAN		BOREHOLE NO: UMA0117	
CLIENT: DEFENCE CONSTRUCTION CANADA		DRILLING METHOD: HAND		PROJECT NO: 0171-095-75-01	
PROJECT ENGINEER: RRM		ELEVATION:			
SAMPLE TYPE		<input checked="" type="checkbox"/> GRAB SAMPLE	<input checked="" type="checkbox"/> SHELBY TUBE	<input checked="" type="checkbox"/> SPT SAMPLE	<input checked="" type="checkbox"/> A-CASING
BACKFILL TYPE		<input checked="" type="checkbox"/> BENTONITE	<input checked="" type="checkbox"/> PEA GRAVEL	<input checked="" type="checkbox"/> SLOUGH	<input checked="" type="checkbox"/> GROUT
		<input type="checkbox"/> NO RECOVERY	<input checked="" type="checkbox"/> CORE SAMPLE		
		<input checked="" type="checkbox"/> DRILL CUTTINGS	<input checked="" type="checkbox"/> SIL 9 SAND		

DEPTH(m)	USC	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	<div style="display: flex; justify-content: space-around; align-items: center;"> PLASTIC M.C. LIQUID </div> <div style="text-align: center;"> </div>	WELL INSTALLATION	REMARKS	DEPTH(ft)
0.0		GW	GRAVEL - sandy, cobbly, some organic rich fines wet, cobbles are rounded lithic, saturated						0.0
			END OF TEST PIT						
1.0									
2.0									

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PROJECT: PIN-3 DLCU SITE INVESTIGATION			LOCATION: SEE SITE PLAN			BOREHOLE NO: UMA0118			
CLIENT: DEFENCE CONSTRUCTION CANADA			DRILLING METHOD: MINI EXCAVATOR			PROJECT NO: 0171-095-75-01			
PROJECT ENGINEER: RRM						ELEVATION:			
SAMPLE TYPE <input checked="" type="checkbox"/> GRAB SAMPLE <input type="checkbox"/> SHELBY TUBE <input checked="" type="checkbox"/> SPT SAMPLE <input type="checkbox"/> A-CASING <input type="checkbox"/> NO RECOVERY <input type="checkbox"/> CORE SAMPLE									
BACKFILL TYPE <input checked="" type="checkbox"/> BENTONITE <input type="checkbox"/> PEA GRAVEL <input type="checkbox"/> SLOUGH <input type="checkbox"/> GROUT <input type="checkbox"/> DRILL CUTTINGS <input type="checkbox"/> SIL 9 SAND									
DEPTH(m)	USC	SOIL SYMBOL	SOIL DESCRIPTION			SAMPLE TYPE	SAMPLE NO	REMARKS	DEPTH(ft)
0.0									0.0
	CB		COBBLES - sandy, gravelly, some organic fines, wet						
			GRAVEL - sandy, clean, trace to some cobbles (rounded, up to 5 cm dia. max), wet						
	GW		- some angular platy cobbles, saturated				1		
1.0									1.0
			END OF TEST PIT - refusal on permafrost, no visible ice, vision obscured by water, no evidence of bedrock						
2.0									2.0
LOGGED BY: GJE REVIEWED BY: GJE Fig. No:						COMPLETION DEPTH: 1.2 m COMPLETE: 08/11/01 Page 1 of 1			

PROJECT: PIN-3 DLU SITE INVESTIGATION		LOCATION: SEE SITE PLAN		BOREHOLE NO: UMA0119	
CLIENT: DEFENCE CONSTRUCTION CANADA		DRILLING METHOD: MINI EXCAVATOR		PROJECT NO: 0171-095-75-01	
PROJECT ENGINEER: RRM				ELEVATION:	
SAMPLE TYPE	<input checked="" type="checkbox"/> GRAB SAMPLE	<input type="checkbox"/> SHELBY TUBE	<input checked="" type="checkbox"/> SPT SAMPLE	<input type="checkbox"/> A-CASING	<input type="checkbox"/> NO RECOVERY
BACKFILL TYPE	<input checked="" type="checkbox"/> BENTONITE	<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input type="checkbox"/> DRILL CUTTINGS
					<input type="checkbox"/> CORE SAMPLE
					<input type="checkbox"/> SIL 9 SAND

DEPTH(m)	USC	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	<div style="display: flex; justify-content: space-around; font-size: 0.8em;"> PLASTIC M.C. LIQUID </div> <div style="text-align: center; margin-top: 5px;"> <div style="width: 100px; height: 10px; background: linear-gradient(to right, #ccc, #ccc); border: 1px solid #ccc; position: relative;"> <div style="position: absolute; left: 20px; top: -5px;">20</div> <div style="position: absolute; left: 40px; top: -5px;">40</div> <div style="position: absolute; left: 60px; top: -5px;">60</div> <div style="position: absolute; left: 80px; top: -5px;">80</div> </div> </div>	WELL INSTALLATION	REMARKS	DEPTH(ft)
0.0	OL		TOPSOIL - sandy						0.0
			GRAVEL - sandy, some cobbles (platey, up to 20 cm dia. max) trace fines, wet well graded, trace shell fragments						
			- clean pea gravel bed, rounded, sandy 20 cm thick						
	GW								2.0
			- dirty sand lens, oxidized, some fines, rounded cobbles		1				
1.0			END OF TEST PIT - refusal on permafrost, no visible ice, vision obscured by water, no evidence of bedrock						4.0
									6.0
2.0									

UMA Engineering Ltd. Calgary, Alberta		LOGGED BY: GJE	COMPLETION DEPTH: 1.0 m
		REVIEWED BY: GJE	COMPLETE: 08/11/01
		Fig. No:	Page 1 of 1

PROJECT: PIN-3 DLCU SITE INVESTIGATION		LOCATION: SEE SITE PLAN		BOREHOLE NO: UMA0120	
CLIENT: DEFENCE CONSTRUCTION CANADA		DRILLING METHOD: MINI EXCAVATOR		PROJECT NO: 0171-095-75-01	
PROJECT ENGINEER: RRM				ELEVATION:	
SAMPLE TYPE		<input checked="" type="checkbox"/> GRAB SAMPLE	<input type="checkbox"/> SHELBY TUBE	<input checked="" type="checkbox"/> SPT SAMPLE	<input type="checkbox"/> A-CASING
BACKFILL TYPE		<input checked="" type="checkbox"/> BENTONITE	<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT
		<input type="checkbox"/> NO RECOVERY	<input type="checkbox"/> CORE SAMPLE		<input checked="" type="checkbox"/> DRILL CUTTINGS
		<input type="checkbox"/> SIL 9 SAND			

DEPTH(m)	USC	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	<div style="display: flex; justify-content: space-between; font-size: 0.8em;"> PLASTIC M.C. LIQUID </div> <div style="text-align: center; margin-top: 5px;"> 20 40 60 80 </div>	WELL INSTALLATION	REMARKS	DEPTH(ft)
0.0	AL	TOPSOIL	- muskeg, wet						0.0
		GRAVEL	- sandy, cobbly (rounded, 5 cm dia. max) trace organic fines, wet, well graded						
			- clean gravel, trace shell fragments						
			- oxidation						
			- saturated						
1.0	GW				1				
			END OF TEST PIT						
			- refusal on permafrost, no visible ice, vision obscured by water, no evidence of bedrock						
2.0									6.0

UMA Engineering Ltd. Calgary, Alberta		LOGGED BY: GJE	COMPLETION DEPTH: 1.4 m
		REVIEWED BY: GJE	COMPLETE: 08/11/01
		Fig. No:	Page 1 of 1

PROJECT: PIN-3 DLCU SITE INVESTIGATION		LOCATION: SEE SITE PLAN		BOREHOLE NO: UMA0121	
CLIENT: DEFENCE CONSTRUCTION CANADA		DRILLING METHOD: MINI EXCAVATOR		PROJECT NO: 0171-095-75-01	
PROJECT ENGINEER: RRM				ELEVATION:	
SAMPLE TYPE <input checked="" type="checkbox"/> GRAB SAMPLE <input checked="" type="checkbox"/> SHELBY TUBE <input checked="" type="checkbox"/> SPT SAMPLE <input checked="" type="checkbox"/> A-CASING <input type="checkbox"/> NO RECOVERY <input type="checkbox"/> CORE SAMPLE					
BACKFILL TYPE <input checked="" type="checkbox"/> BENTONITE <input type="checkbox"/> PEA GRAVEL <input type="checkbox"/> SLOUGH <input type="checkbox"/> GROUT <input type="checkbox"/> DRILL CUTTINGS <input type="checkbox"/> SIL 9 SAND					

DEPTH(m)	USC	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PLASTIC	M.C.	LIQUID	WELL INSTALLATION	REMARKS	DEPTH(ft)
0.0			GRAVEL - sandy, cobbly (rounded, 7 cm dia. max), trace fines, wet, well graded, compact, trace shell fragments, pinkish grey,			20	40	60			0.0
			saturated								2.0
1.0			- brown dirty sand, some fines								4.0
			END OF TEST PIT - refusal on permafrost, no visible ice, vision obscured by water, no evidence of bedrock								6.0
2.0											

UMA Engineering Ltd. Calgary, Alberta		LOGGED BY: GJE	COMPLETION DEPTH: 1.3 m
		REVIEWED BY: GJE	COMPLETE: 08/11/01
		Fig. No:	Page 1 of 1

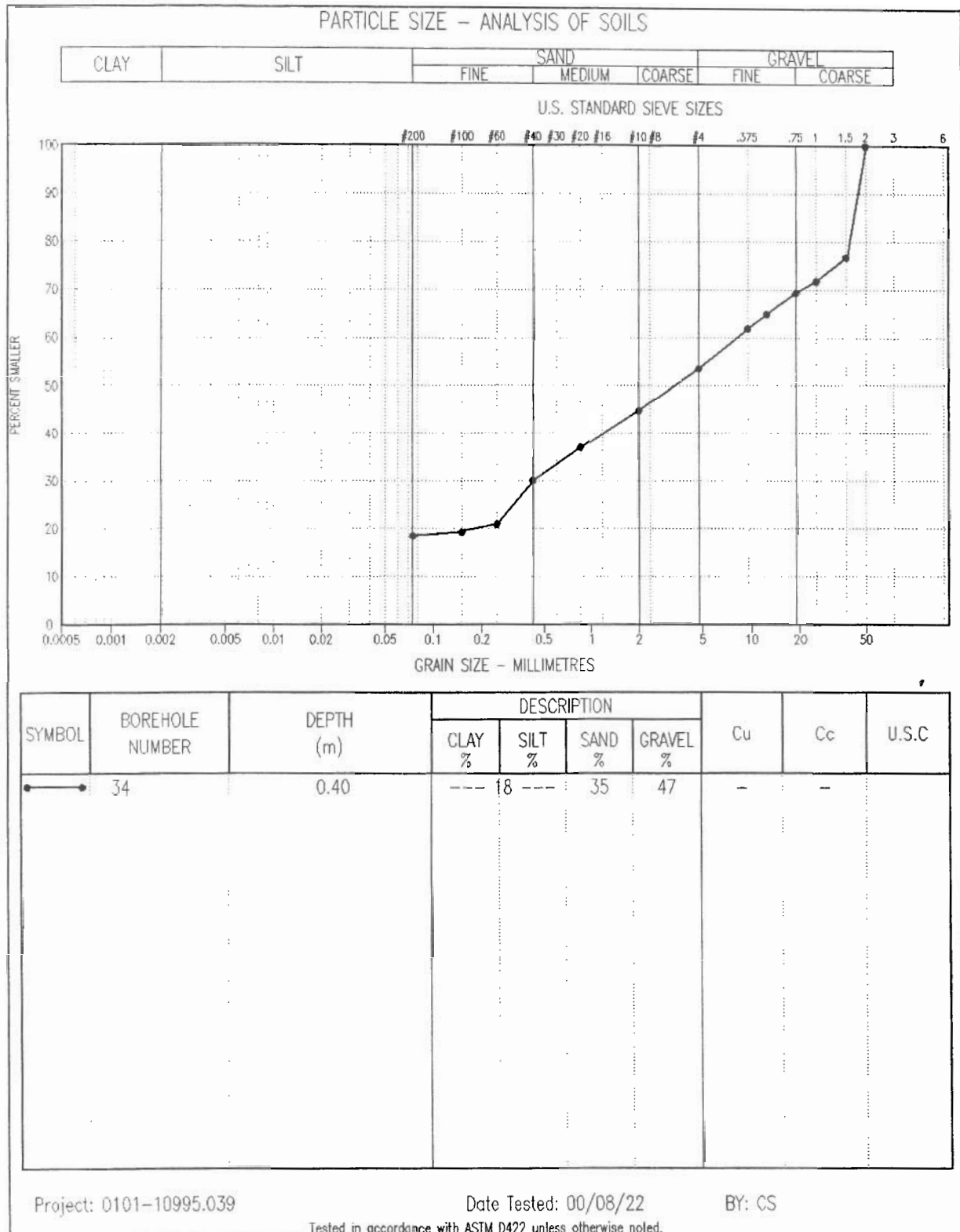
PROJECT: PIN-3 DLCU SITE INVESTIGATION		LOCATION: SEE SITE PLAN		BOREHOLE NO: UMA0122	
CLIENT: DEFENCE CONSTRUCTION CANADA		DRILLING METHOD: HAND		PROJECT NO: 0171-095-75-01	
PROJECT ENGINEER: RRM				ELEVATION:	
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BACKFILL TYPE <input checked="" type="checkbox"/> BENTONITE <input type="checkbox"/> PEA GRAVEL <input type="checkbox"/> SLOUGH <input type="checkbox"/> GROUT <input type="checkbox"/> DRILL CUTTINGS <input type="checkbox"/> SIL 9 SAND					

DEPTH(m)	USC	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PLASTIC	W.C.	LIQUID	WELL INSTALLATION	REMARKS	DEPTH(ft)
0.0	OL		TOPSOIL - sandy, roots			20	40	60			0.0
			SAND - trace gravel and cobbles, trace fines, medium grained, wet, uniform sand, pinkish grey								
	SW		- saturated, oxidized		1						2.0
1.0			END OF TEST PIT - too much sloughing								4.0
2.0											6.0

UMA Engineering Ltd. Calgary, Alberta		LOGGED BY: GJE	COMPLETION DEPTH: 0.9 m
		REVIEWED BY: GJE	COMPLETE: 08/11/01
		Fig. No:	Page 1 of 1

PROJECT: PIN-3 DLU SITE INVESTIGATION		LOCATION: SEE SITE PLAN		BOREHOLE NO: UMA0101	
CLIENT: DEFENCE CONSTRUCTION CANADA		DRILLING METHOD: HAND		PROJECT NO: 0171-095-75-01	
PROJECT ENGINEER: RRM				ELEVATION:	
SAMPLE TYPE		<input checked="" type="checkbox"/> GRAB SAMPLE	<input type="checkbox"/> SHELBY TUBE	<input checked="" type="checkbox"/> SPT SAMPLE	<input type="checkbox"/> A-CASING
BACKFILL TYPE		<input checked="" type="checkbox"/> BENTONITE	<input type="checkbox"/> PEA GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT
		<input type="checkbox"/> NO RECOVERY	<input type="checkbox"/> CORE SAMPLE		<input type="checkbox"/> DRILL CUTTINGS
				<input type="checkbox"/> SIL 9 SAND	
DEPTH(m)	USC	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO
0.0	OL	TOPSOIL	- sandy, organic rich, rootlets		
	SW	SAND	- medium grained, cobbles (angular bedrock fragments up to 10 cm dia), trace fines, wet		
			- saturated		
			END OF TEST PIT		
			- refusal on cobbles		
1.0					
2.0					
3.0					
4.0					
5.0					
6.0					
7.0					
8.0					
9.0					
10.0					
11.0					
12.0					
13.0					
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EBA Engineering

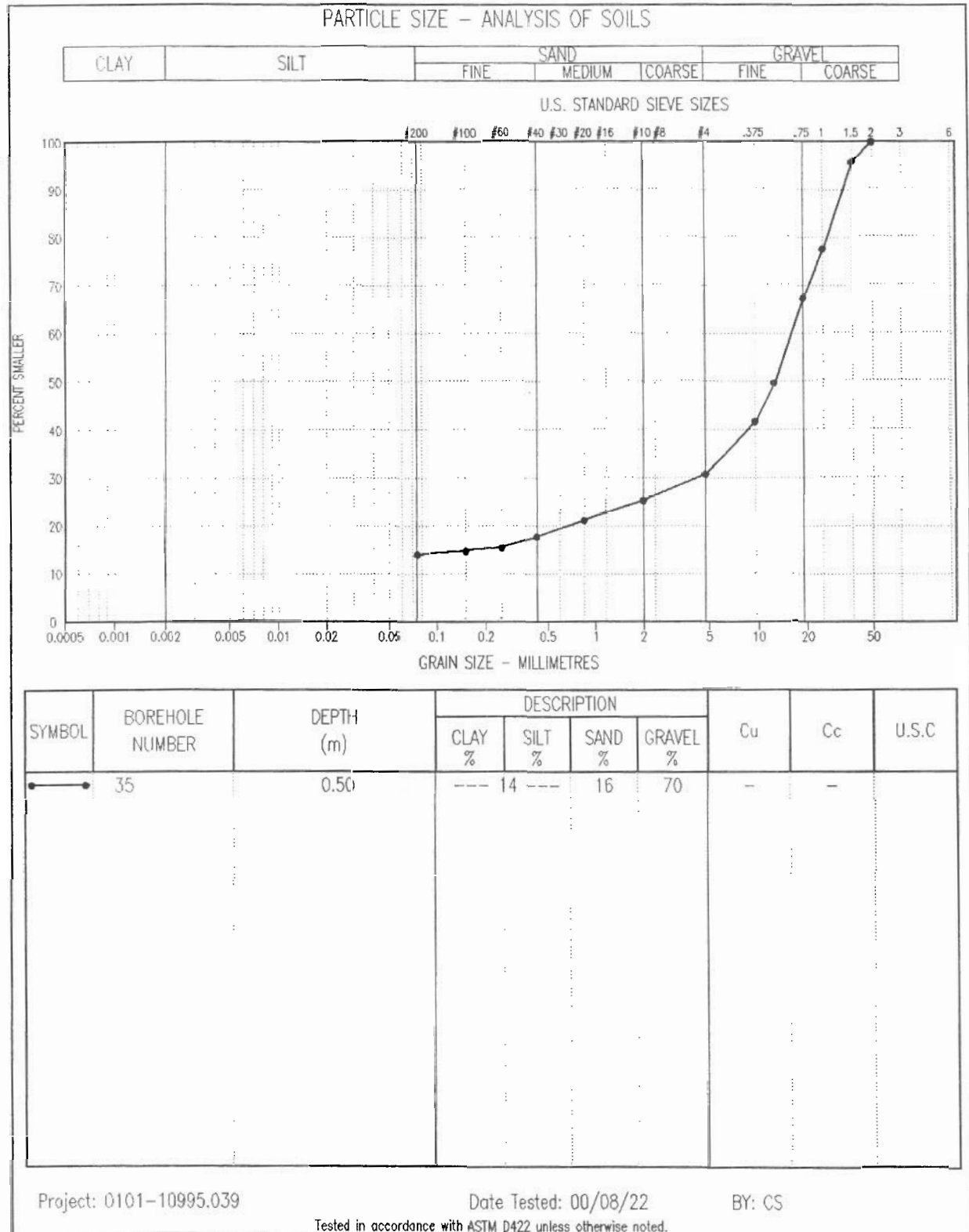


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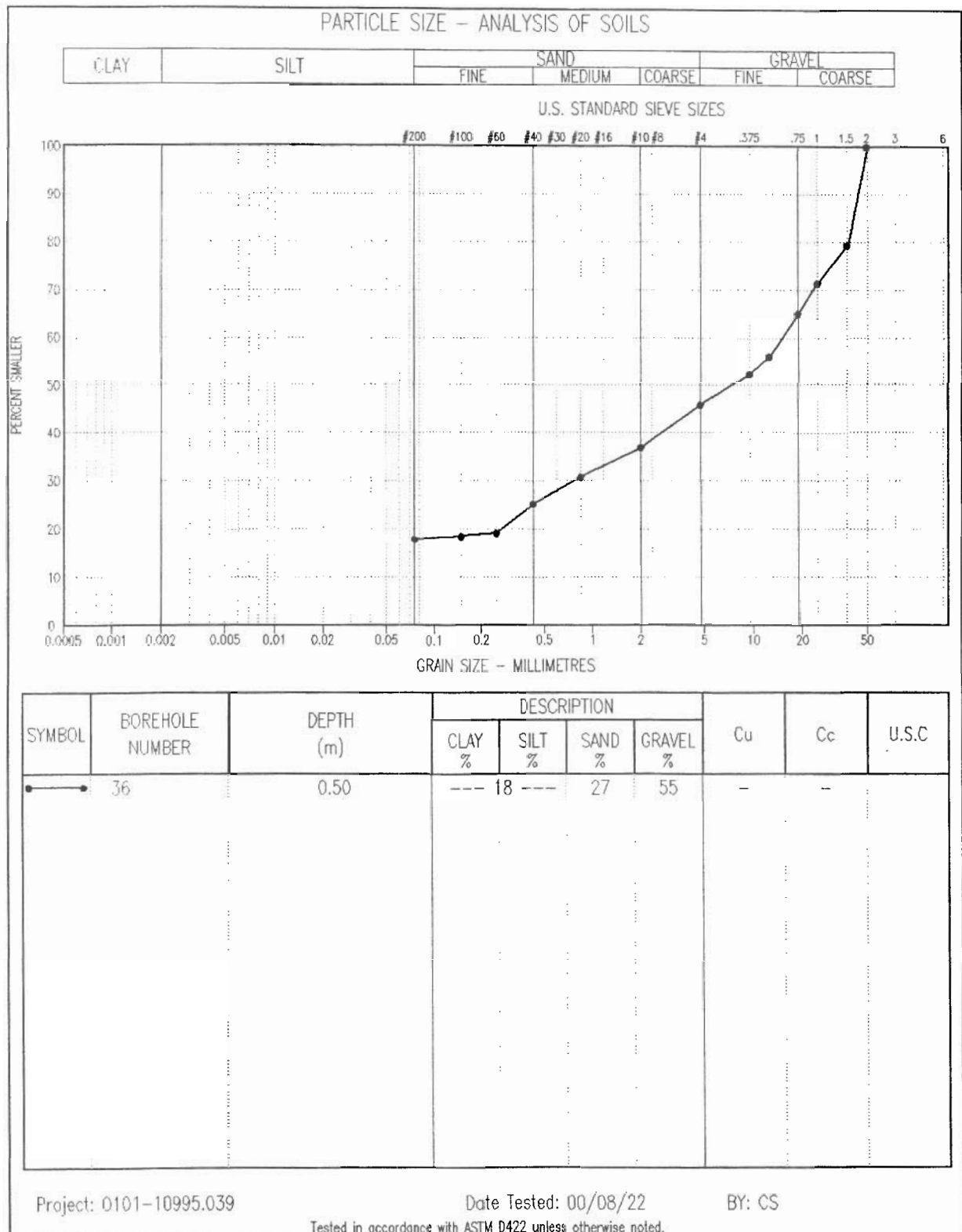


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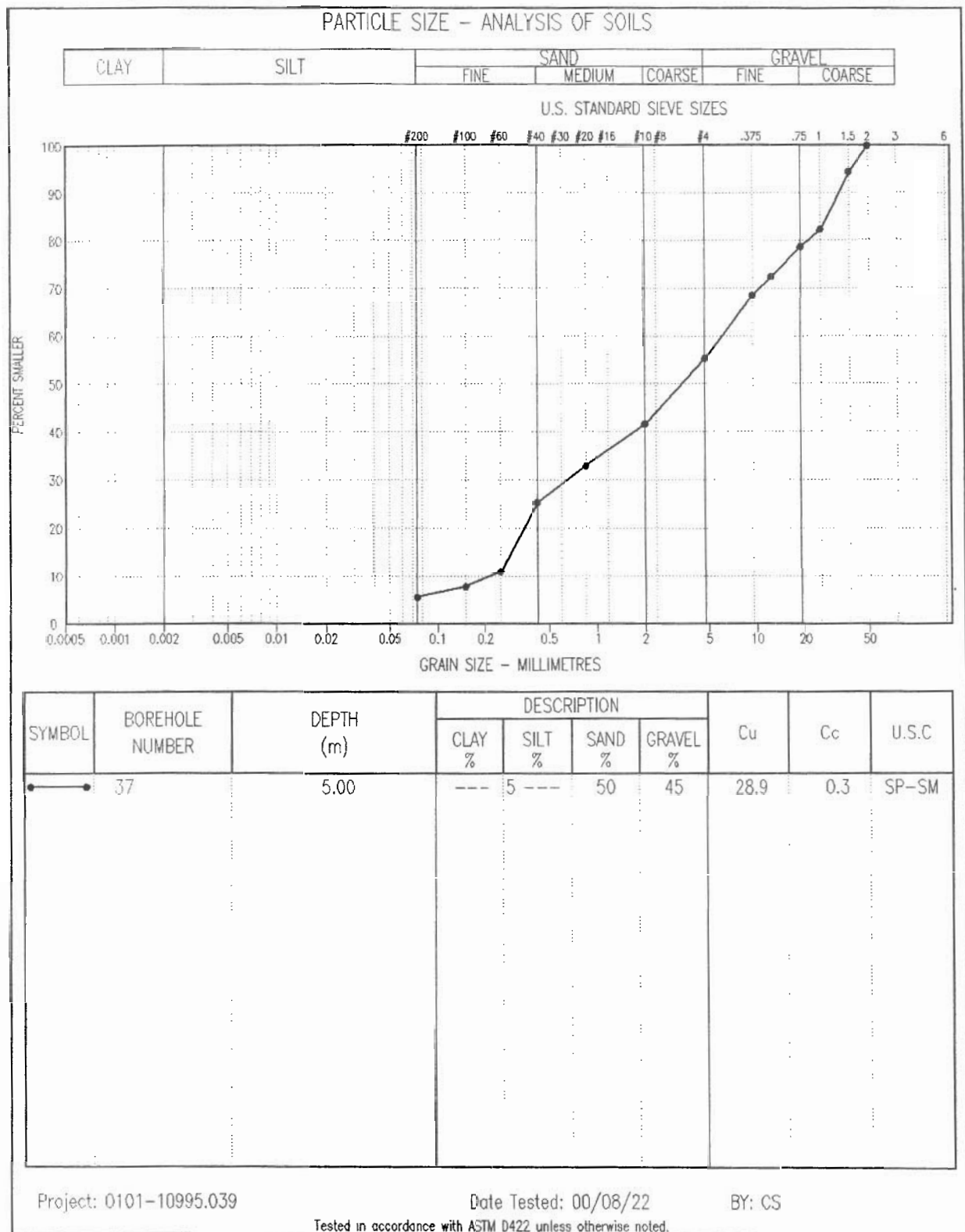


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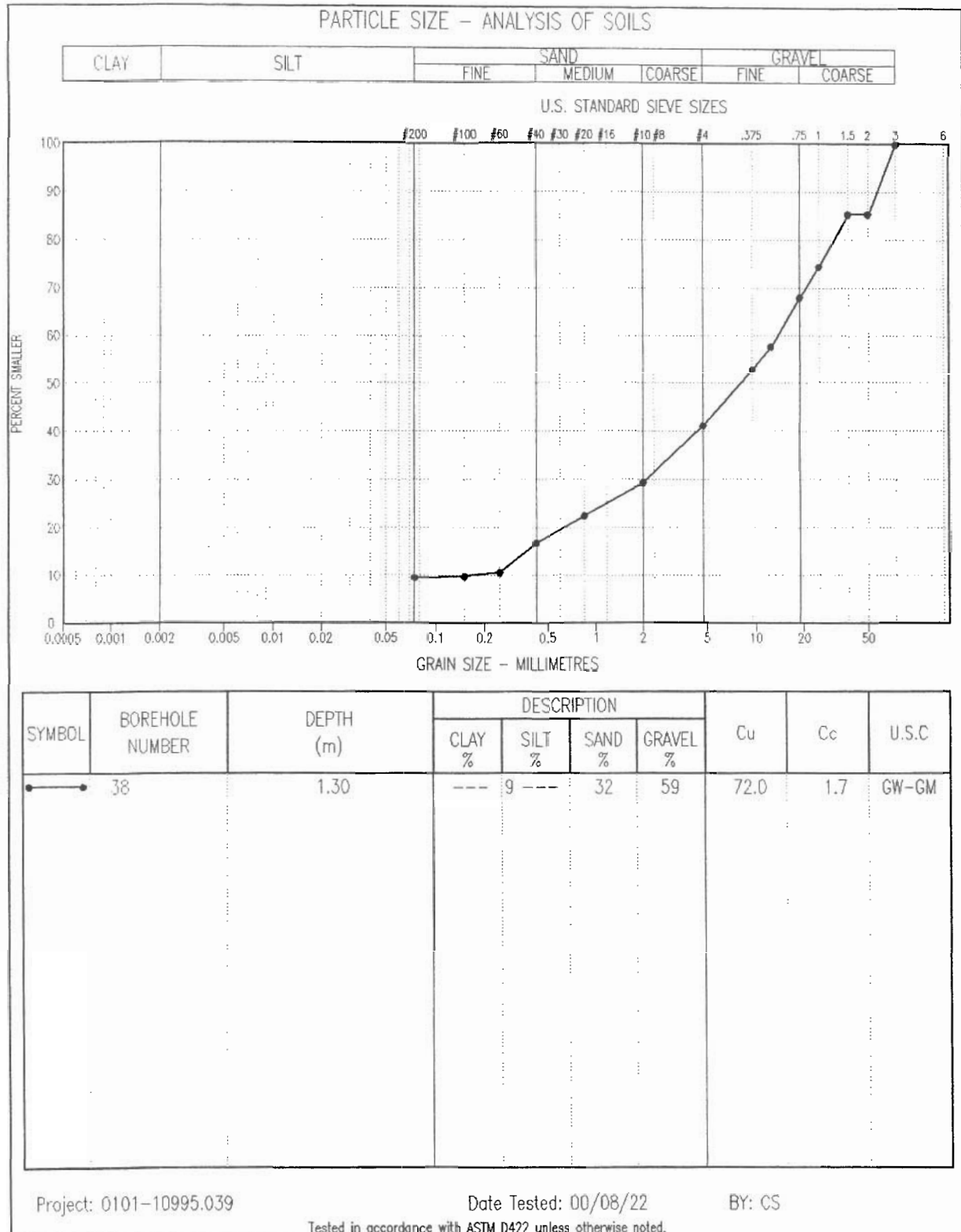
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EBA Engineering

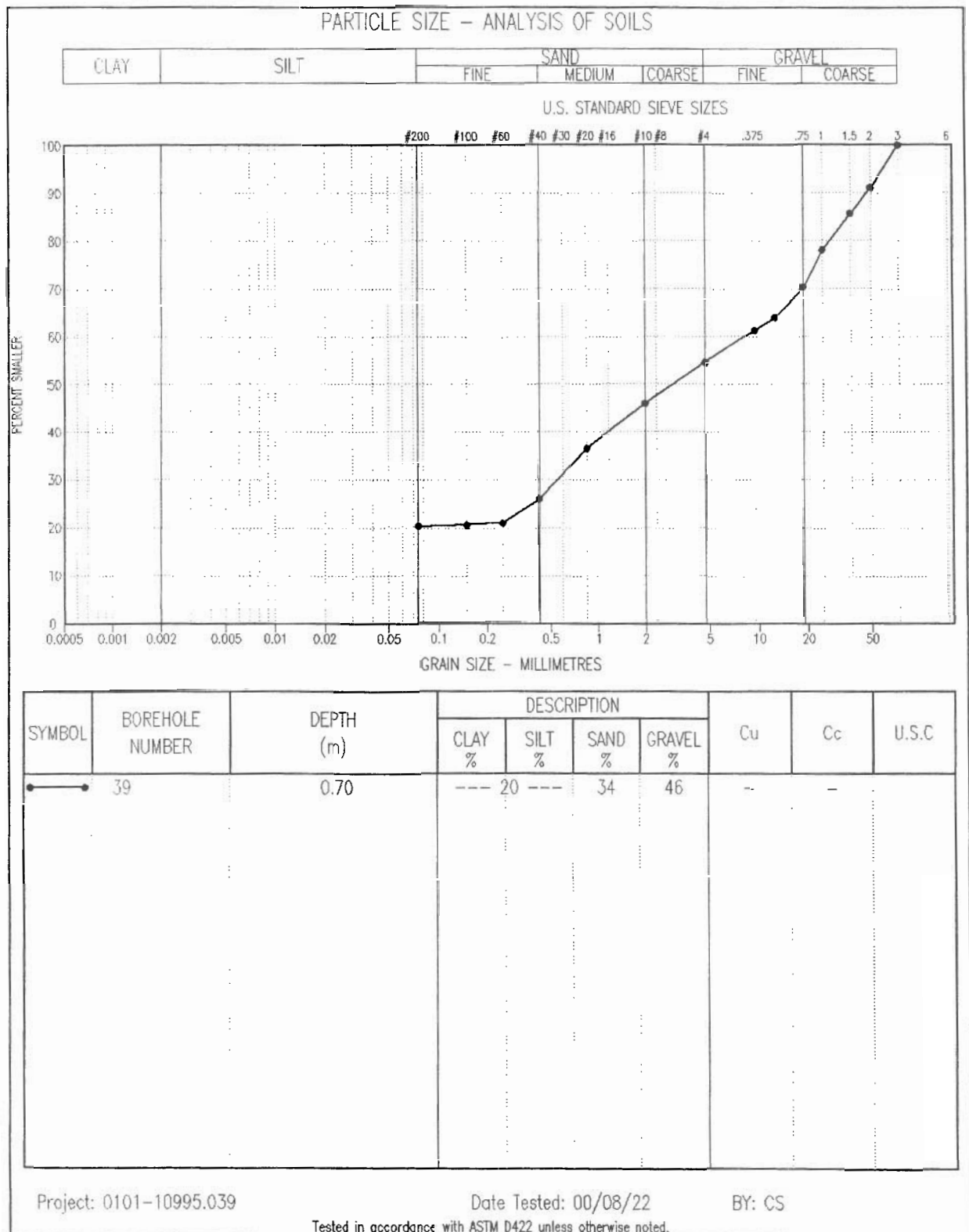


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EBA Engineering



Project: 0101-10995.039

Date Tested: 00/08/22

BY: CS

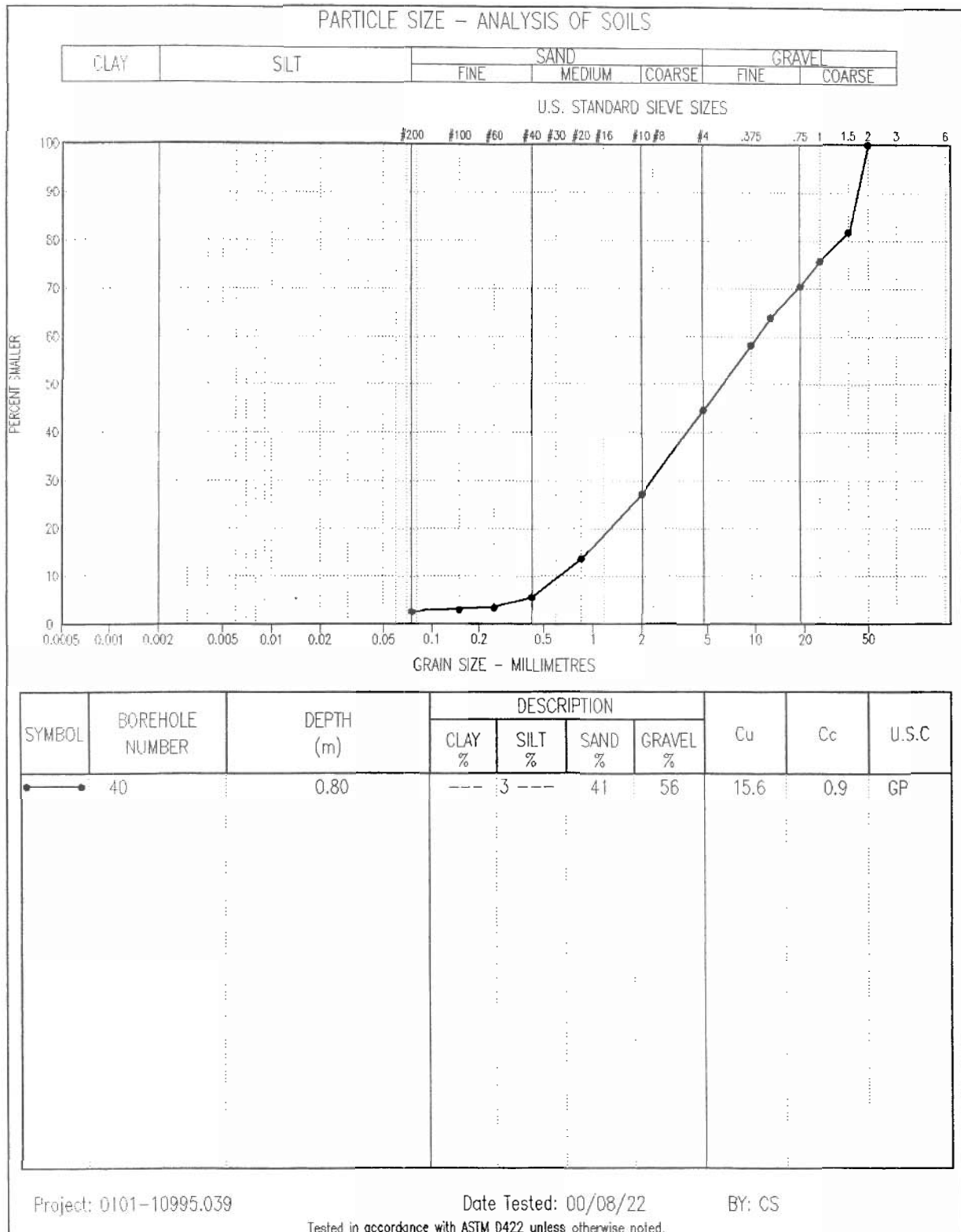
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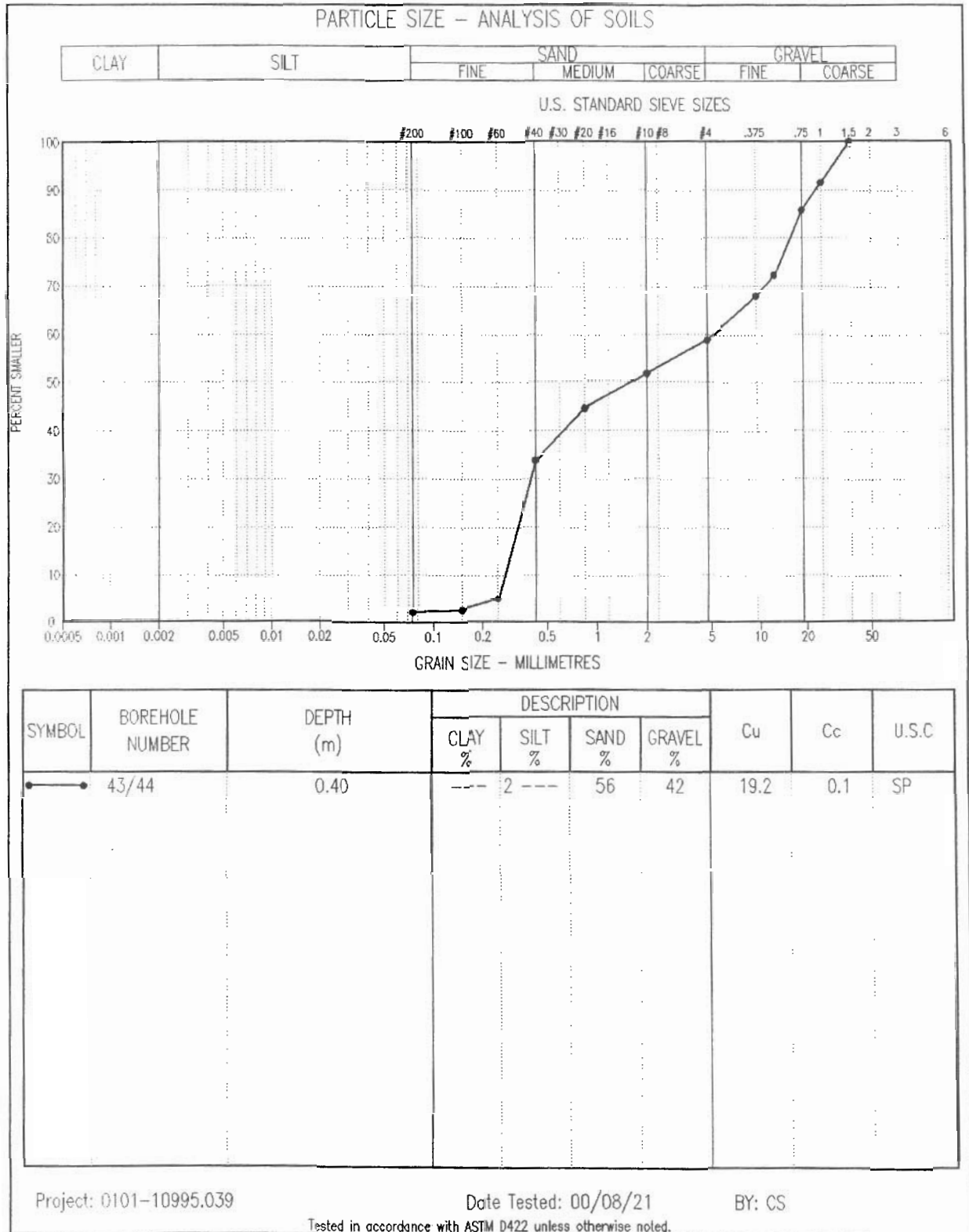
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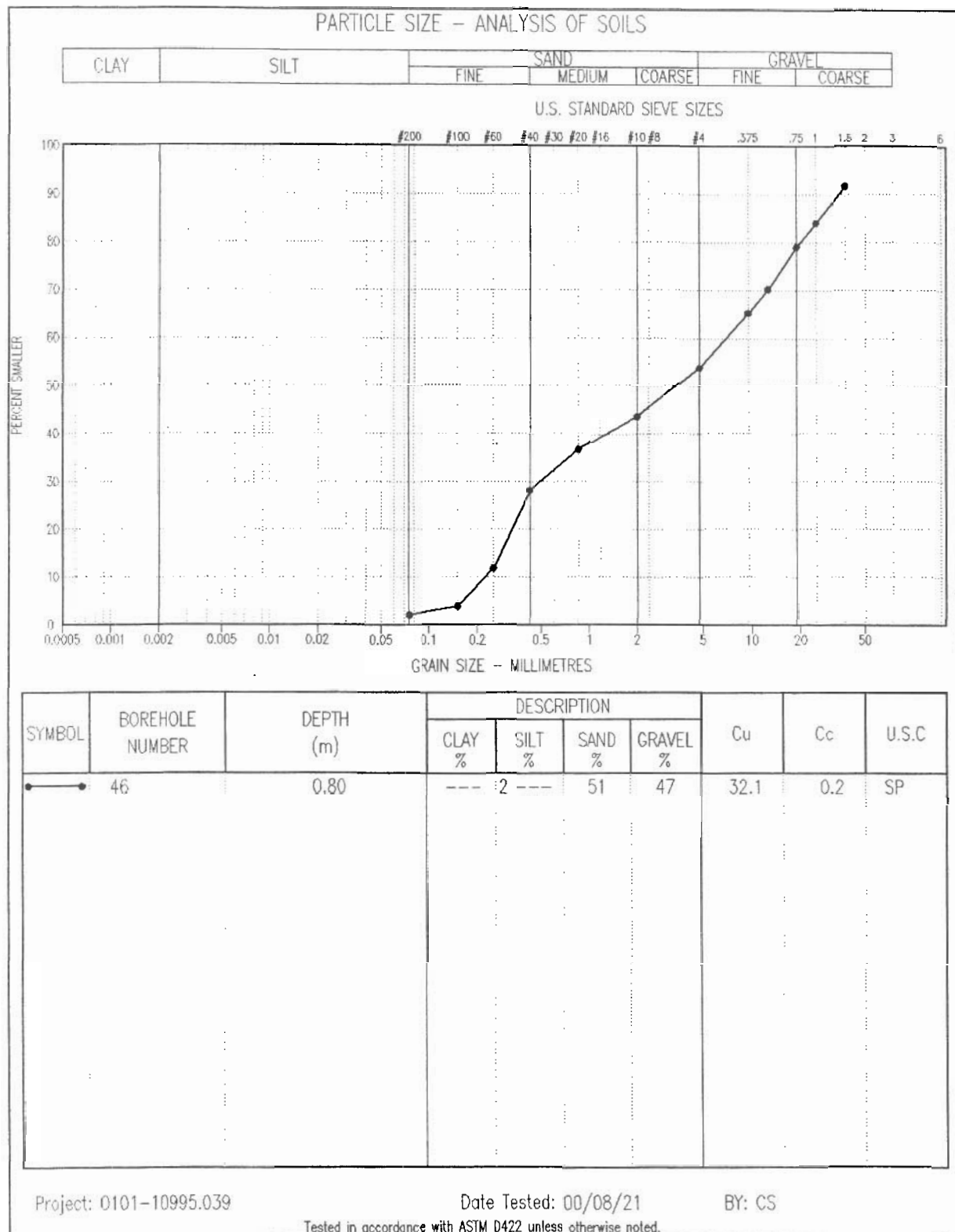


Project: 0101-10995.039

Date Tested: 00/08/21

BY: CS

EBA Engineering

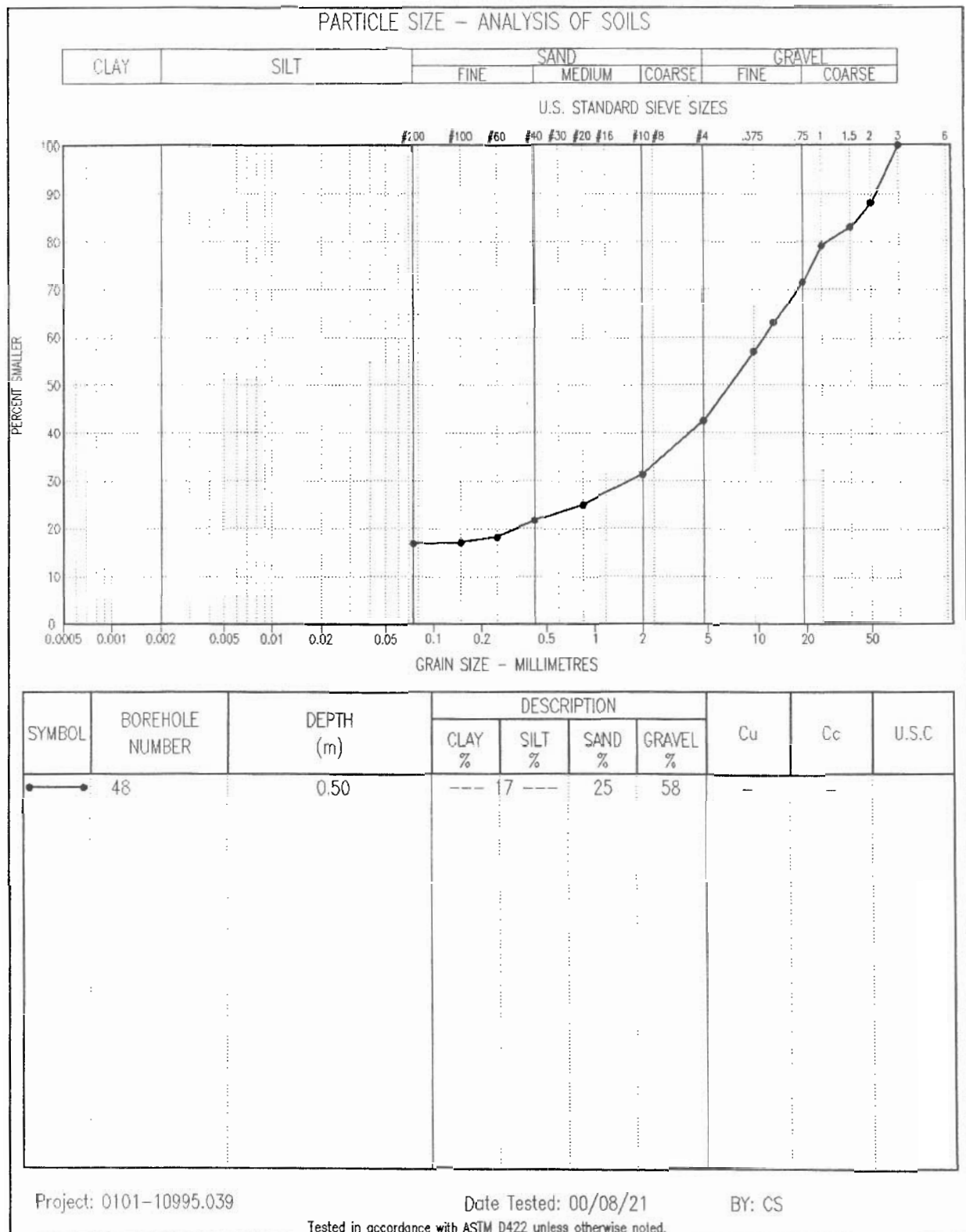


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EBA Engineering



Project: 0101-10995.039

Date Tested: 00/08/21

BY: CS

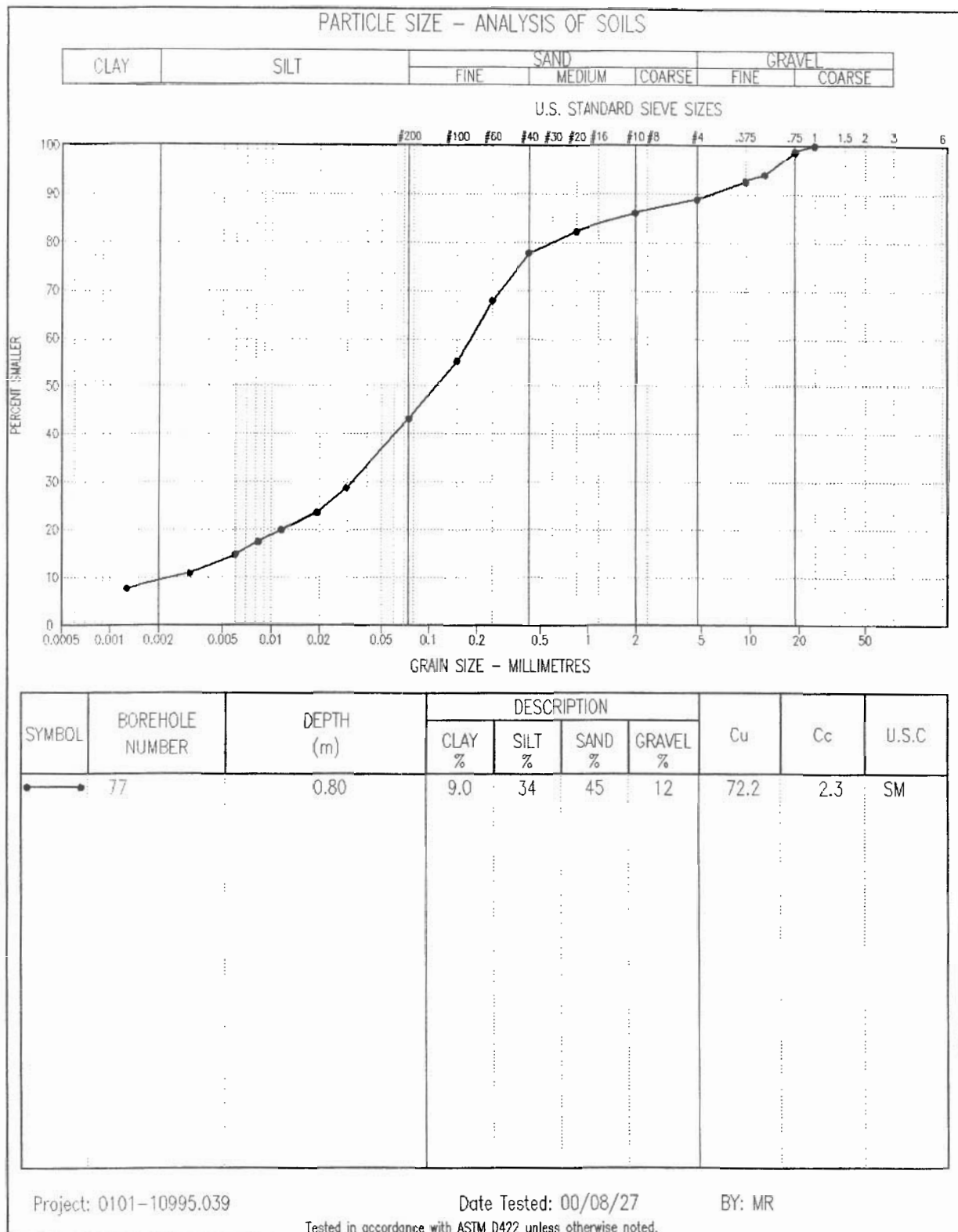
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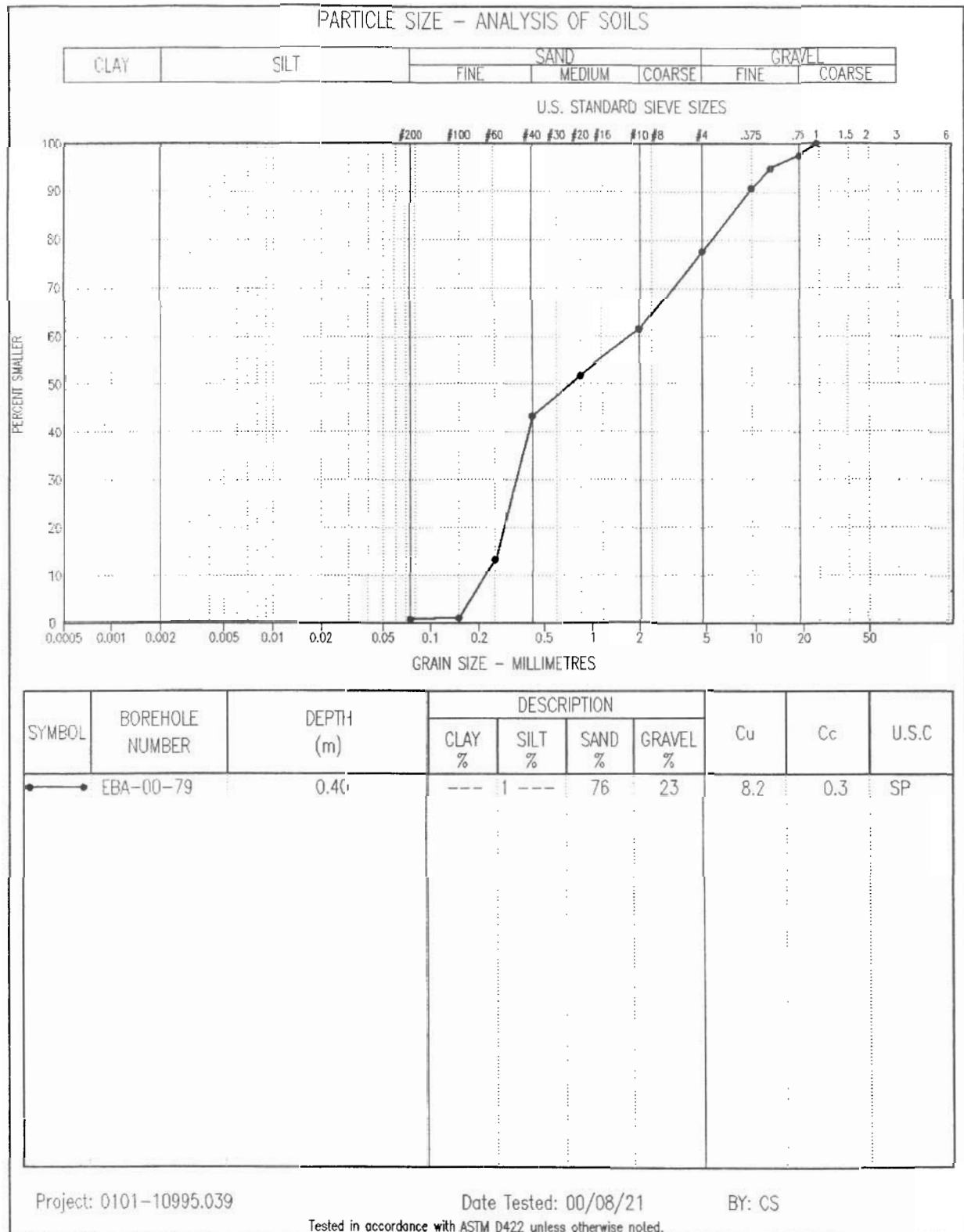


Project: 0101-10995.039

Date Tested: 00/08/27

BY: MR

EBA Engineering



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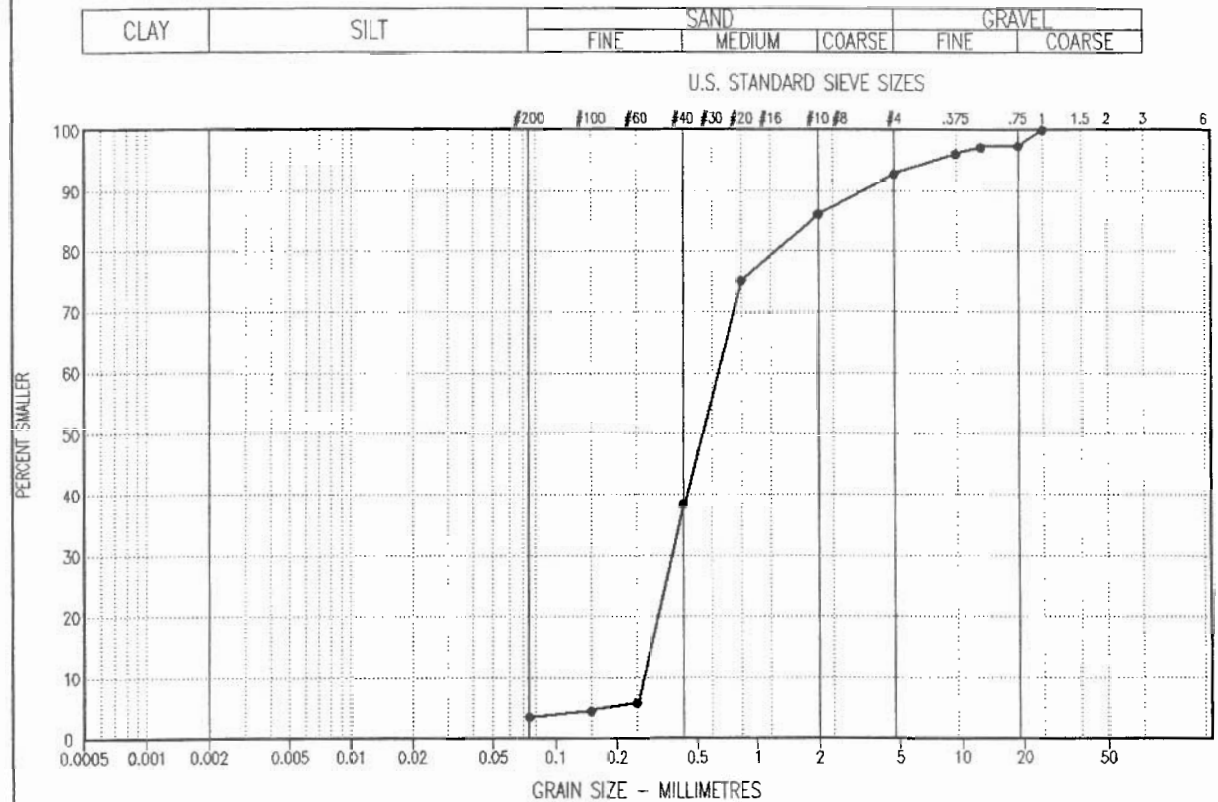
Tested in accordance with ASTM D422 unless otherwise noted.

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EBA Engineering

PARTICLE SIZE - ANALYSIS OF SOILS



SYMBOL	BOREHOLE NUMBER	DEPTH (m)	DESCRIPTION				Cu	Cc	U.S.C
			CLAY %	SILT %	SAND %	GRAVEL %			
—●—	104	0.00	—	3	89	8	2.5	0.8	SP

Project: 0101-94-10995.039

Date Tested: 01/10/17

BY: SML

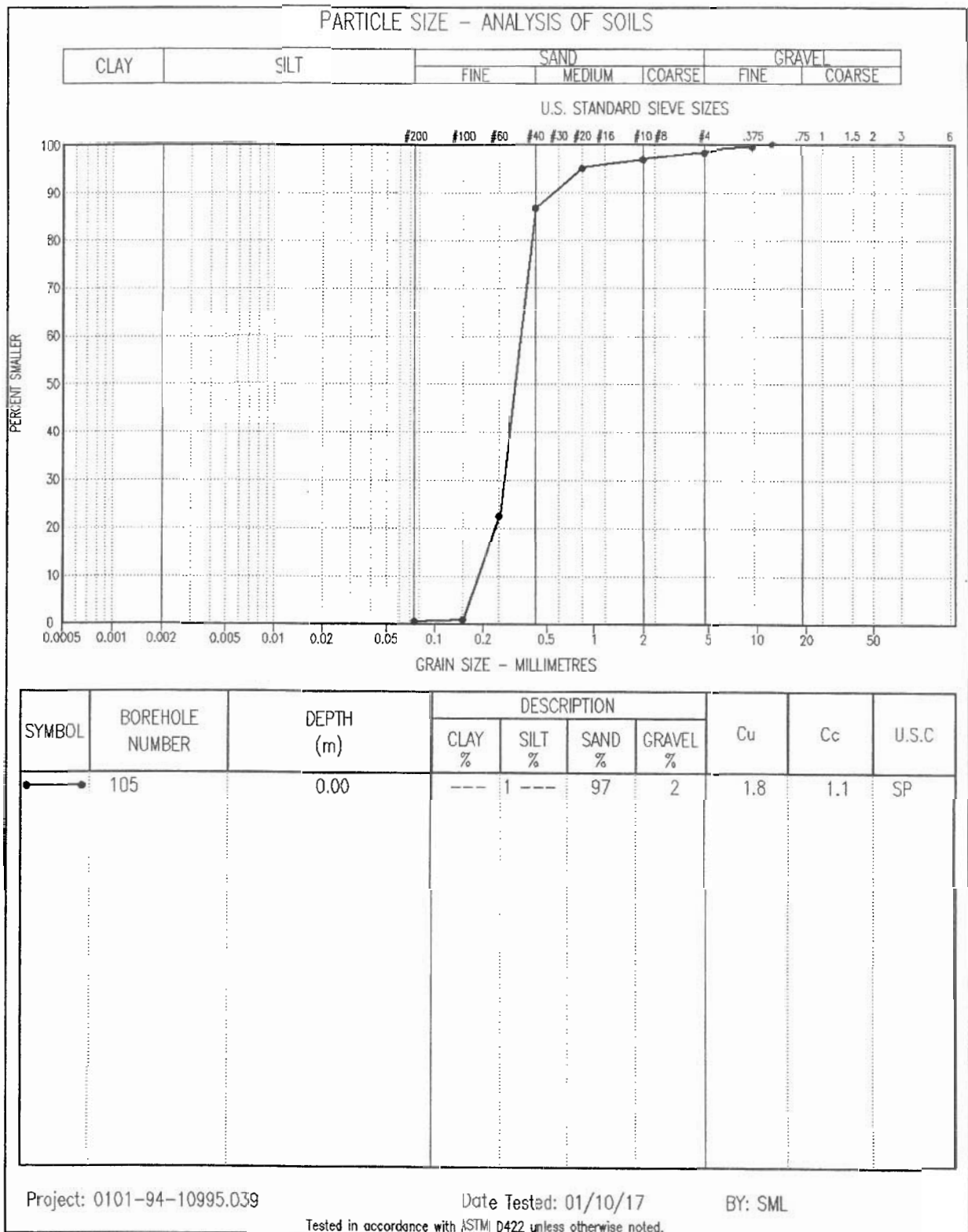
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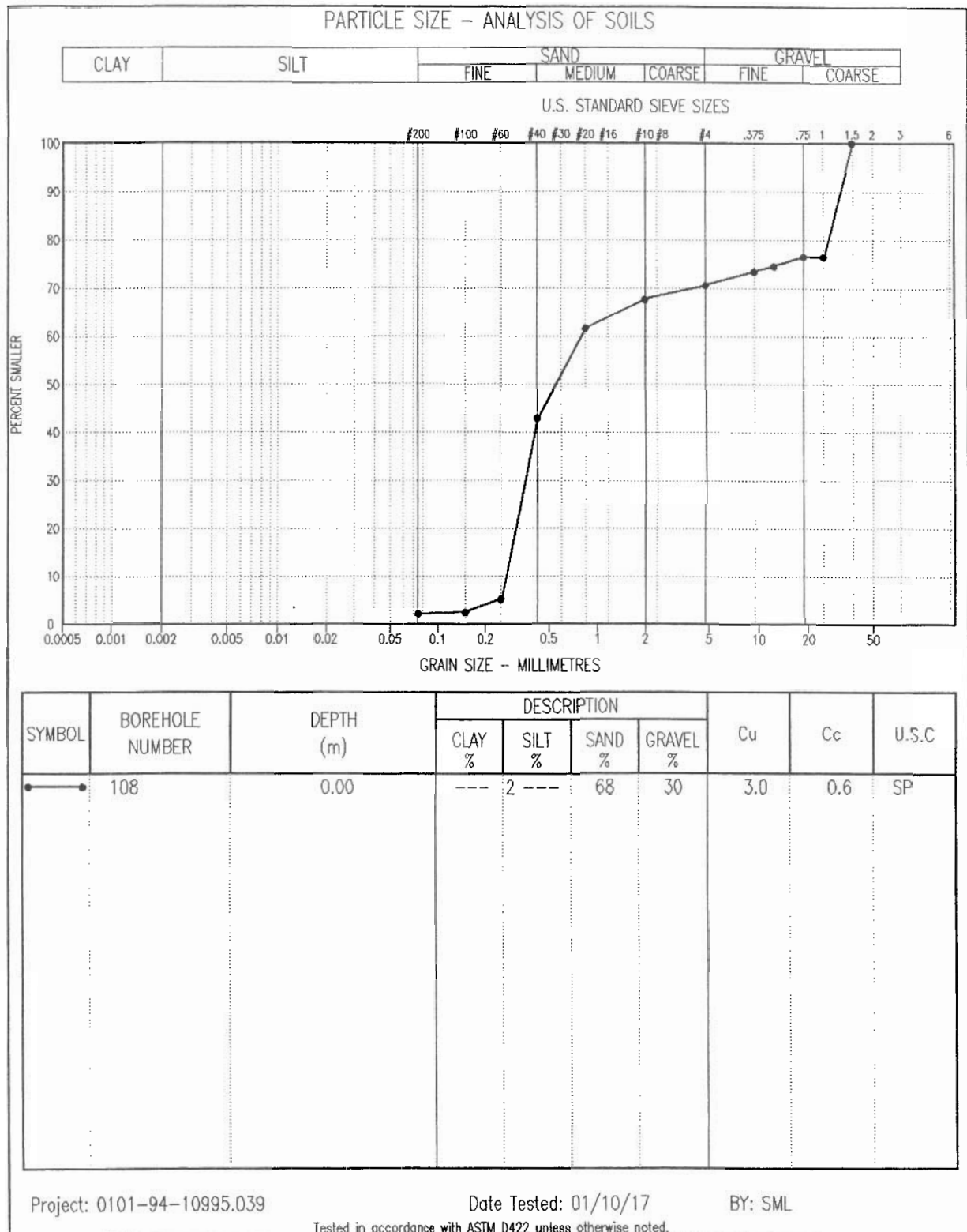


Project: 0101-94-10995.039

Date Tested: 01/10/17

BY: SML

EBA Engineering

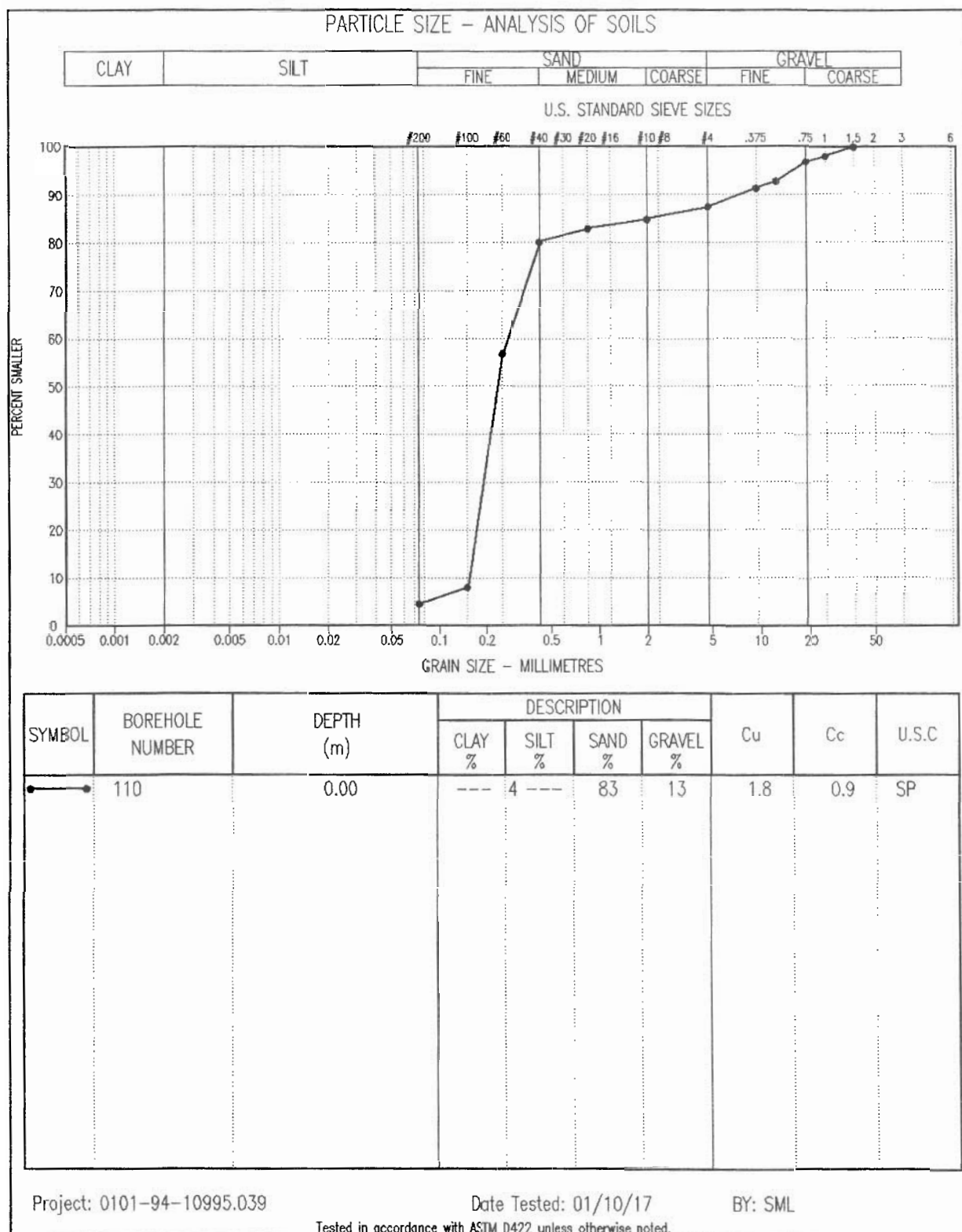


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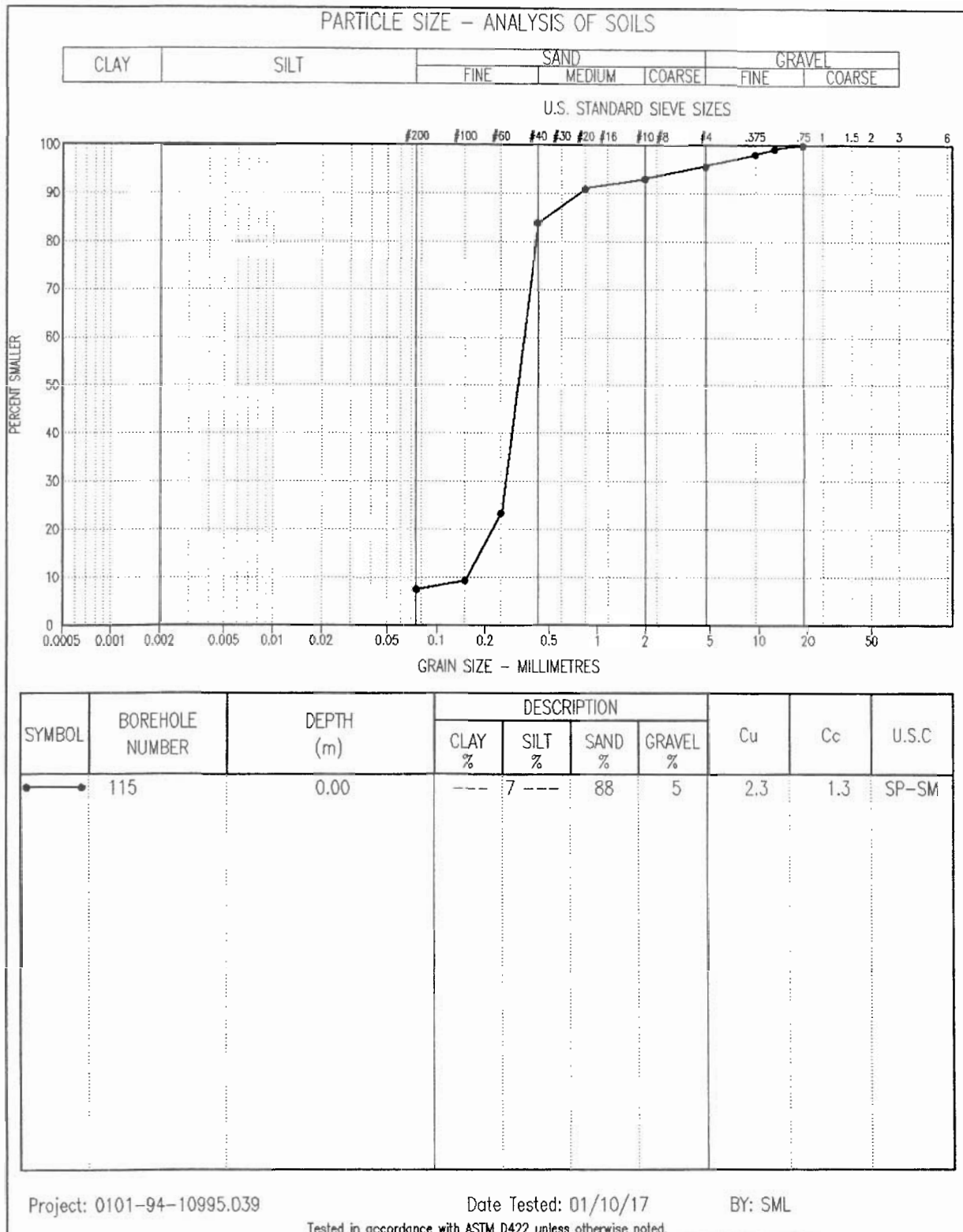
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EBA Engineering

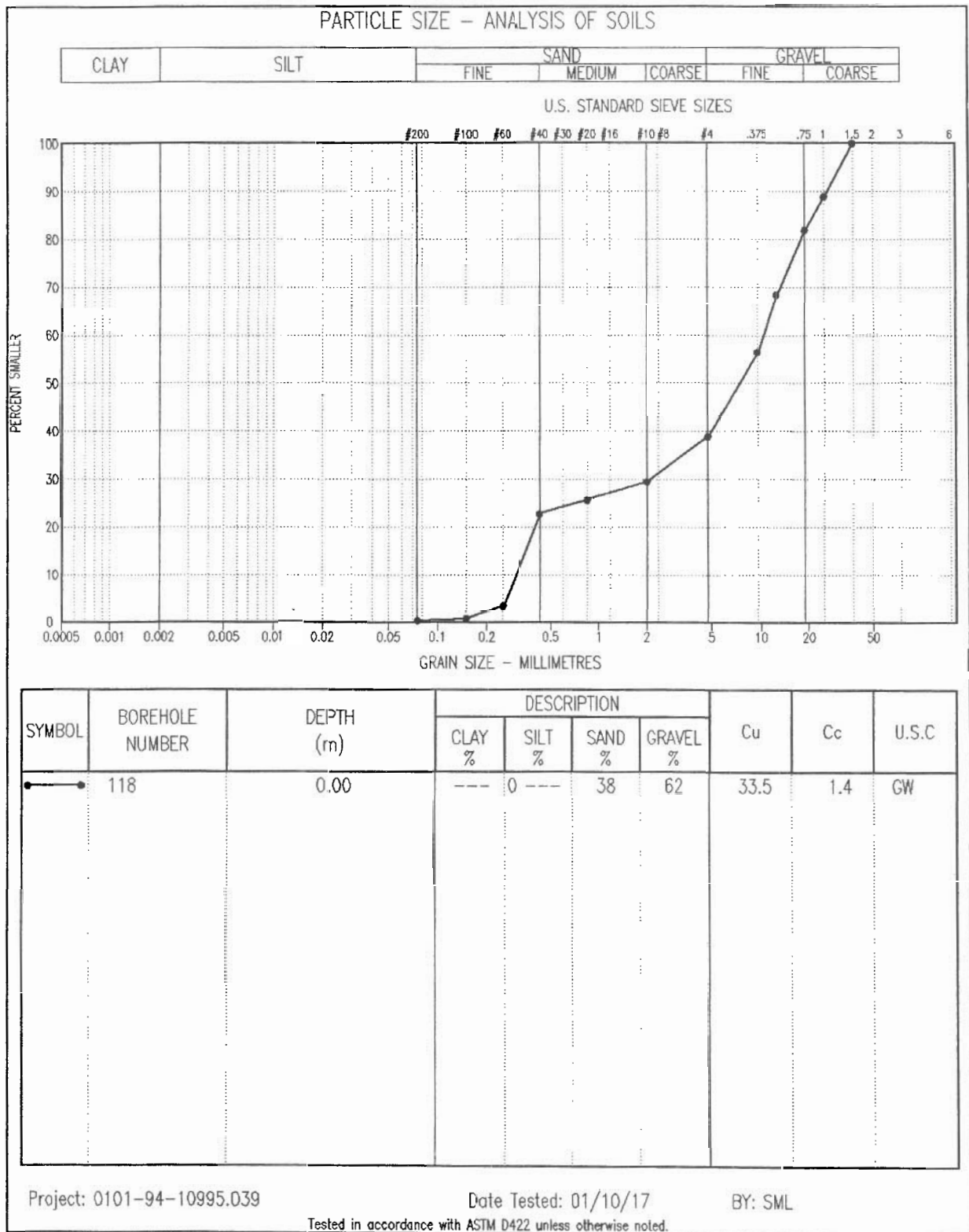


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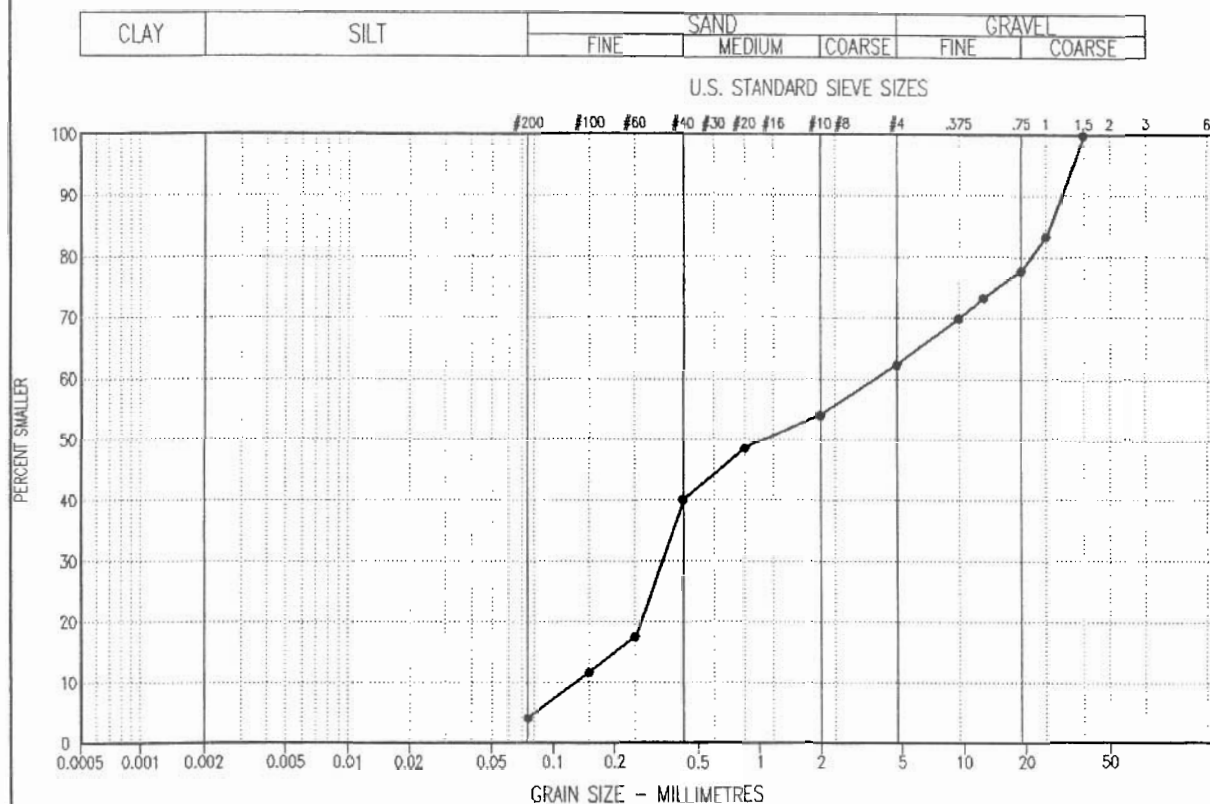
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EBA Engineering

PARTICLE SIZE - ANALYSIS OF SOILS



SYMBOL	BOREHOLE NUMBER	DEPTH (m)	DESCRIPTION				Cu	Cc	U.S.C
			CLAY %	SILT %	SAND %	GRAVEL %			
—●—	119	0.00	— 4 —	— 58 —	38		29.6	0.2	SP

Project: 0101-94-10995.039

Date Tested: 01/10/17

BY: SML

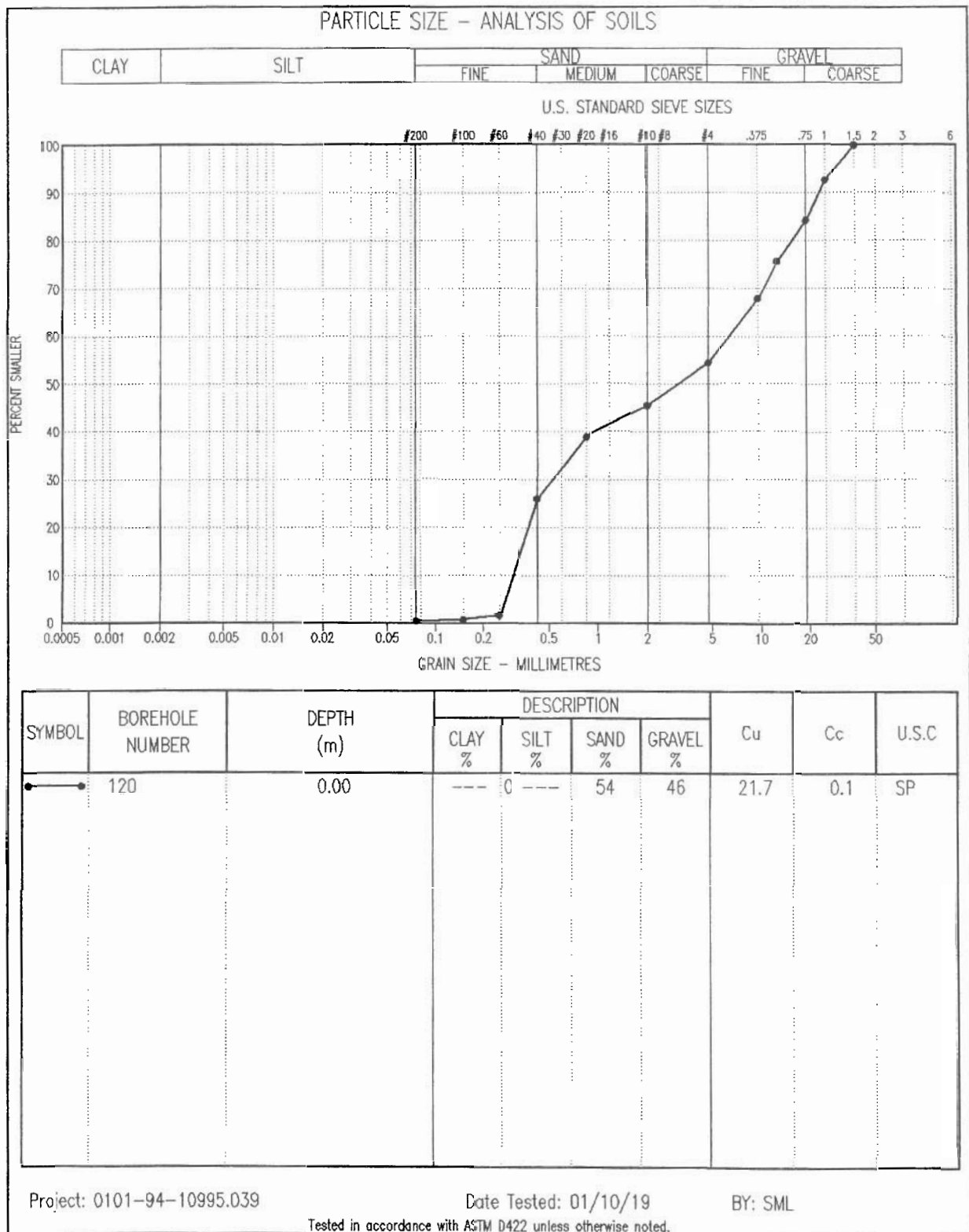
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Project: 0101-94-10995.039

Date Tested: 01/10/19

BY: SML

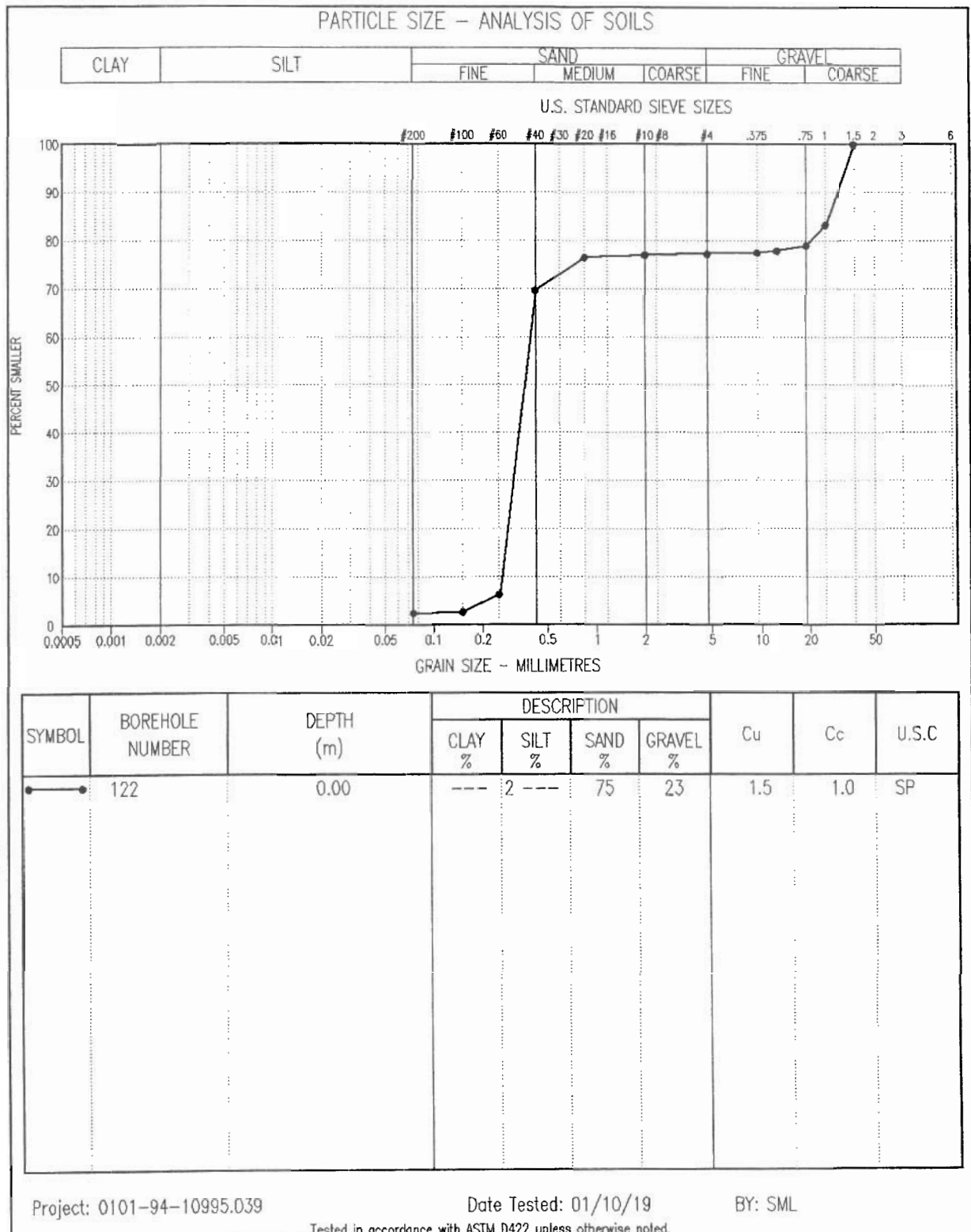
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Project: 0101-94-10995.039

Date Tested: 01/10/19

BY: SML

APPENDIX E

GENERAL CONDITIONS

EBA Engineering Consultants Ltd. (EBA)
GEOTECHNICAL REPORT – GENERAL CONDITIONS

This report incorporates and is subject to these “General Conditions”.

A.1 USE OF REPORT AND OWNERSHIP

This geotechnical report pertains to a specific site, a specific development and a specific scope of work. It is not applicable to any other sites nor should it be relied upon for types of development other than that to which it refers. Any variation from the site or development would necessitate a supplementary geotechnical assessment.

This report and the recommendations contained in it are intended for the sole use of EBA's client. EBA does not accept any responsibility for the accuracy of any of the data, the analyses or the recommendations contained or referenced in the report when the report is used or relied upon by any party other than EBA's client unless otherwise authorized in writing by EBA. Any unauthorized use of the report is at the sole risk of the user.

This report is subject to copyright and shall not be reproduced either wholly or in part without the prior, written permission of EBA. Additional copies of the report, if required, may be obtained upon request.

A.2 NATURE AND EXACTNESS OF SOIL AND ROCK DESCRIPTIONS

Classification and identification of soils and rocks are based upon commonly accepted systems and methods employed in professional geotechnical practice. This report contains descriptions of the systems and methods used. Where deviations from the system or method prevail, they are specifically mentioned.

Classification and identification of geological units are judgmental in nature as to both type and condition. EBA does not warrant conditions represented herein as exact, but infers accuracy only to the extent that is common in practice.

Where subsurface conditions encountered during development are different from those described in this report, qualified geotechnical personnel should revisit the site and review recommendations in light of the actual conditions encountered.

A.3 LOGS OF TEST HOLES

The test hole logs are a compilation of conditions and classification of soils and rocks as obtained from field observations and laboratory testing of selected samples. Soil and rock zones have been interpreted. Change from one geological zone to the other, indicated on the logs as a distinct line, can be, in fact, transitional. The extent of transition is interpretive.

Any circumstance which requires precise definition of soil or rock zone transition elevations may require further investigation and review.

A.4 STRATIGRAPHIC AND GEOLOGICAL INFORMATION

The stratigraphic and geological information indicated on drawings contained in this report are inferred from logs of test holes and/or soil/rock exposures. Stratigraphy is known only at the locations of the test hole or exposure. Actual geology and stratigraphy between test holes and/or exposures may vary from that shown on these drawings. Natural variations in geological conditions are inherent and are a function of the historic environment. EBA does not represent the conditions illustrated as exact but recognizes that variations will exist. Where knowledge of more precise locations of geological units is necessary, additional investigation and review may be necessary.

A.5 SURFACE WATER AND GROUNDWATER CONDITIONS

Surface and groundwater conditions mentioned in this report are those observed at the times recorded in the report. These conditions vary with geological detail between observation sites; annual, seasonal and special meteorologic conditions; and with development activity. Interpretation of water conditions from observations and records is judgmental and constitutes an evaluation of circumstances as influenced by geology, meteorology and development activity. Deviations from these observations may occur during the course of development activities.

A.6 PROTECTION OF EXPOSED GROUND

Excavation and construction operations expose geological materials to climatic elements (freeze/thaw, wet/dry) and/or mechanical disturbance which can cause severe deterioration. Unless otherwise specifically indicated in this report, the walls and floors of excavations must be protected from the elements, particularly moisture, desiccation, frost action and construction traffic.

A.7 SUPPORT OF ADJACENT GROUND AND STRUCTURES

Unless otherwise specifically advised, support of ground and structures adjacent to the anticipated construction and preservation of adjacent ground and structures from the adverse impact of construction activity is required.

EBA Engineering Consultants Ltd. (EBA)
GEOTECHNICAL REPORT – GENERAL CONDITIONS

A.8 INFLUENCE OF CONSTRUCTION ACTIVITY

There is a direct correlation between construction activity and structural performance of adjacent buildings and other installations. The influence of all anticipated construction activities should be considered by the contractor, owner, architect and prime engineer in consultation with a geotechnical engineer when the final design and construction techniques are known.

A.9 OBSERVATIONS DURING CONSTRUCTION

Because of the nature of geological deposits, the judgmental nature of geotechnical engineering, as well as the potential of adverse circumstances arising from construction activity, observations during site preparation, excavation and construction should be carried out by a geotechnical engineer. These observations may then serve as the basis for confirmation and/or alteration of geotechnical recommendations or design guidelines presented herein.

A.10 DRAINAGE SYSTEMS

Where temporary or permanent drainage systems are installed within or around a structure, the systems which will be installed must protect the structure from loss of ground due to internal erosion and must be designed so as to assure continued performance of the drains. Specific design detail of such systems should be developed or reviewed by the geotechnical engineer. Unless otherwise specified, it is a condition of this report that effective temporary and permanent drainage systems are required and that they must be considered in relation to project purpose and function.

A.11 BEARING CAPACITY

Design bearing capacities, loads and allowable stresses quoted in this report relate to a specific soil or rock type and condition. Construction activity and environmental circumstances can materially change the condition of soil or rock. The elevation at which a soil or rock type occurs is variable. It is a requirement of this report that structural elements be founded in and/or upon geological materials of the type and in the condition assumed. Sufficient observations should be made by qualified geotechnical personnel during construction to assure that the soil and/or rock conditions assumed in this report in fact exist at the site.

A.12 SAMPLES

EBA will retain all soil and rock samples for 30 days after this report is issued. Further storage or transfer of

samples can be made at the client's expense upon written request, otherwise samples will be discarded.

A.13 STANDARD OF CARE

Services performed by EBA for this report have been conducted in a manner consistent with the level of skill ordinarily exercised by members of the profession currently practising under similar conditions in the jurisdiction in which the services are provided. Engineering judgement has been applied in developing the conclusions and/or recommendations provided in this report. No warranty or guarantee, express or implied, is made concerning the test results, comments, recommendations, or any other portion of this report.

A.14 ENVIRONMENTAL AND REGULATORY ISSUES

Unless stipulated in the report, EBA has not been retained to investigate, address or consider and has not investigated, addressed or considered any environmental or regulatory issues associated with development on the subject site.

A.15 ALTERNATE REPORT FORMAT

Where EBA submits both electronic file and hard copy versions of reports, drawings and other project-related documents and deliverables (collectively termed EBA's instruments of professional service), the Client agrees that only the signed and sealed hard copy versions shall be considered final and legally binding. The hard copy versions submitted by EBA shall be the original documents for record and working purposes, and, in the event of a dispute or discrepancies, the hard copy versions shall govern over the electronic versions. Furthermore, the Client agrees and waives all future right of dispute that the original hard copy signed version archived by EBA shall be deemed to be the overall original for the Project.

The Client agrees that both electronic file and hard copy versions of EBA's instruments of professional service shall not, under any circumstances, no matter who owns or uses them, be altered by any party except EBA. The Client warrants that EBA's instruments of professional service will be used only and exactly as submitted by EBA.

The Client recognizes and agrees that electronic files submitted by EBA have been prepared and submitted using specific software and hardware systems. EBA makes no representation about the compatibility of these files with the Client's current or future software and hardware systems.

APPENDIX D
DEMOLITION AND SITE PHOTOGRAPHS

Demolition Photographs
Site: PIN-3, Lady Franklin Point

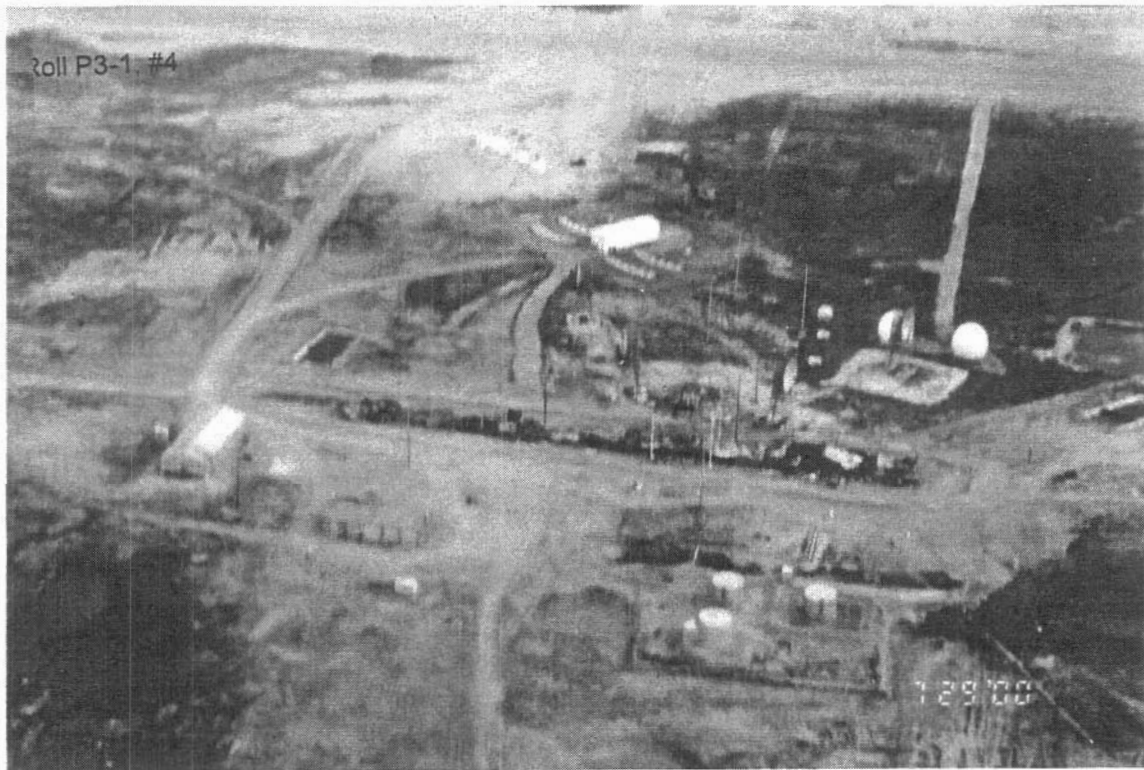


Photo 1 - Aerial View of PIN-3, Station Area

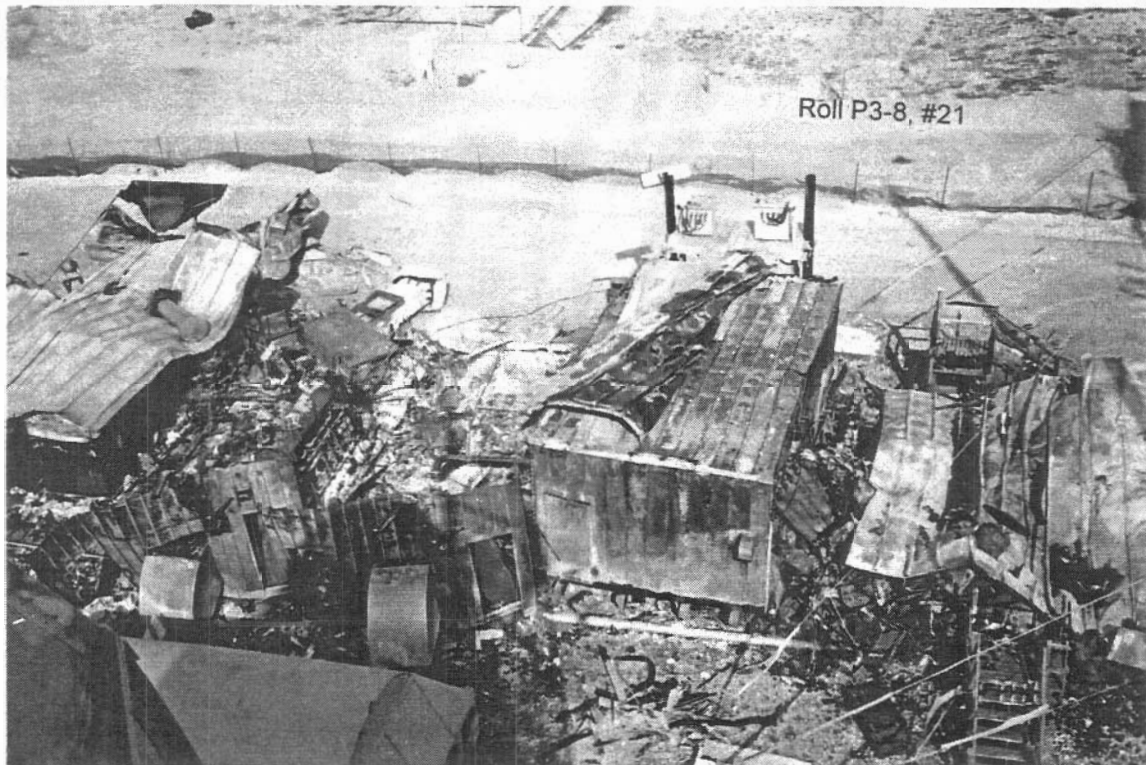


Photo 2 - Module Train Debris and Rubble

Demolition Photographs
Site: PIN-3, Lady Franklin Point



Photo 3 - Module Train Debris and Rubble



Roll P3-3, Photo 9

Photo 4 - Close-Up of Module Train

Demolition Photographs
Site: PIN-3, Lady Franklin Point

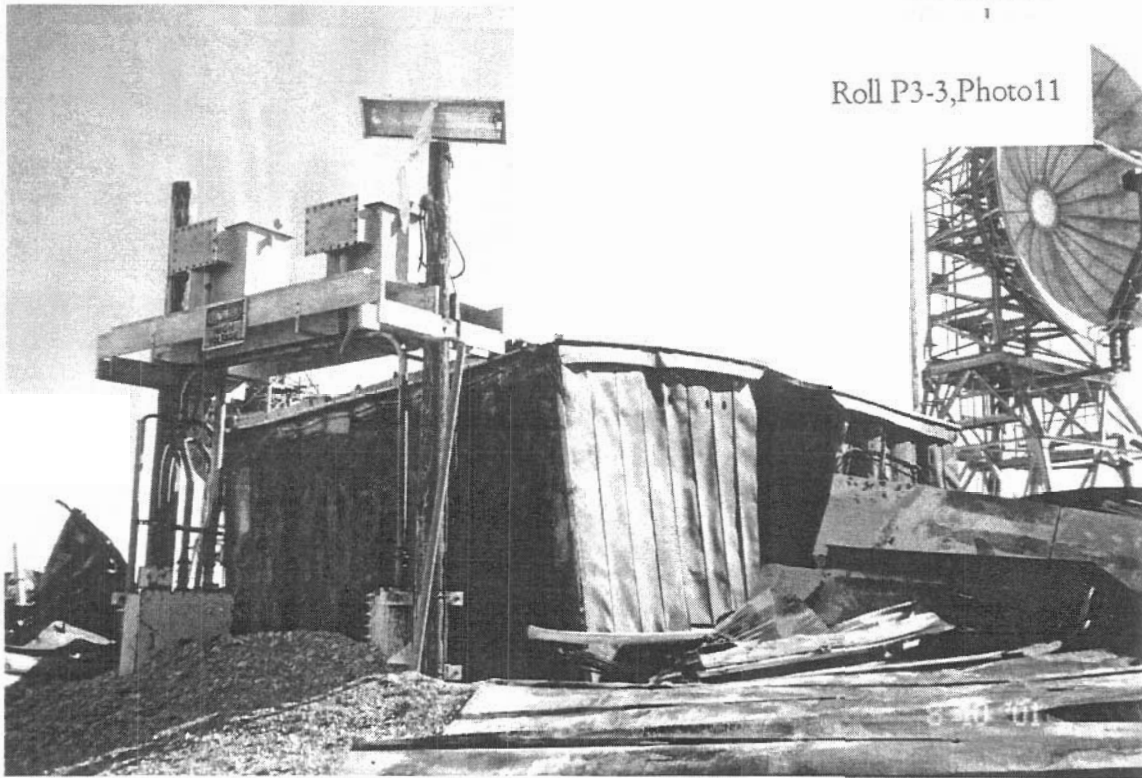


Photo 5 - Close-Up of Module Train - Fire Break

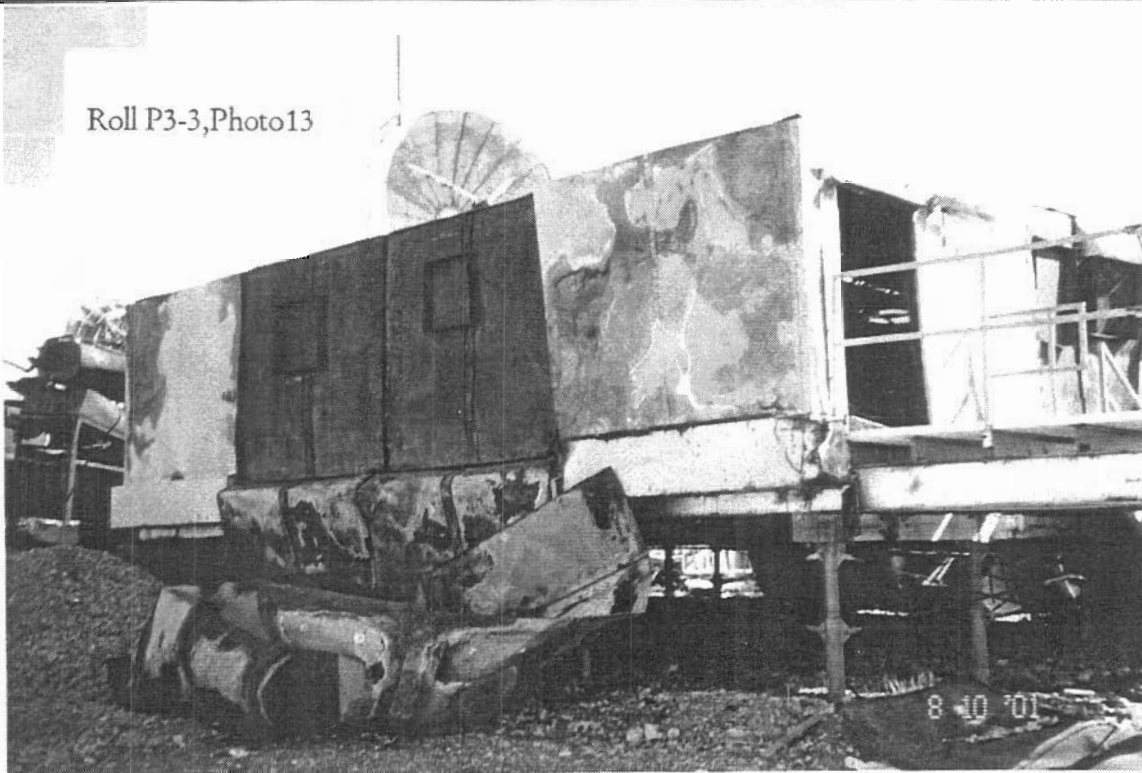


Photo 6 - Close-Up of Module Train

Demolition Photographs
Site: PIN-3, Lady Franklin Point

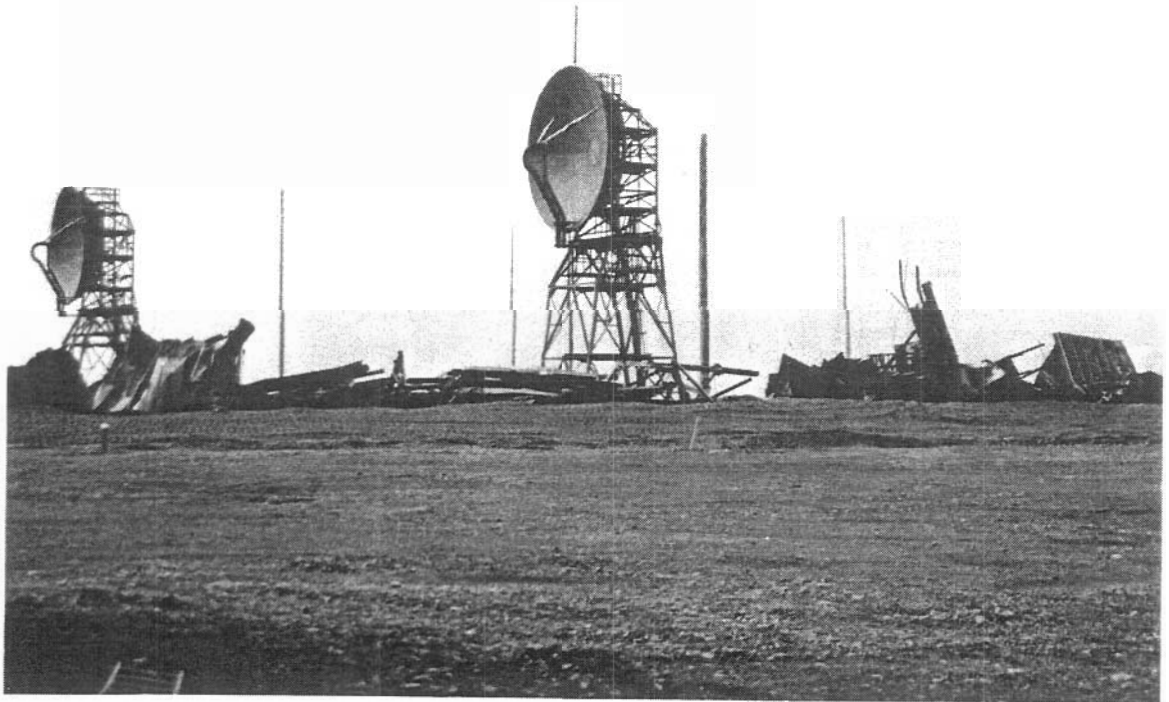


Photo 7 - HF Air Ground Antenna behind Communication Dish

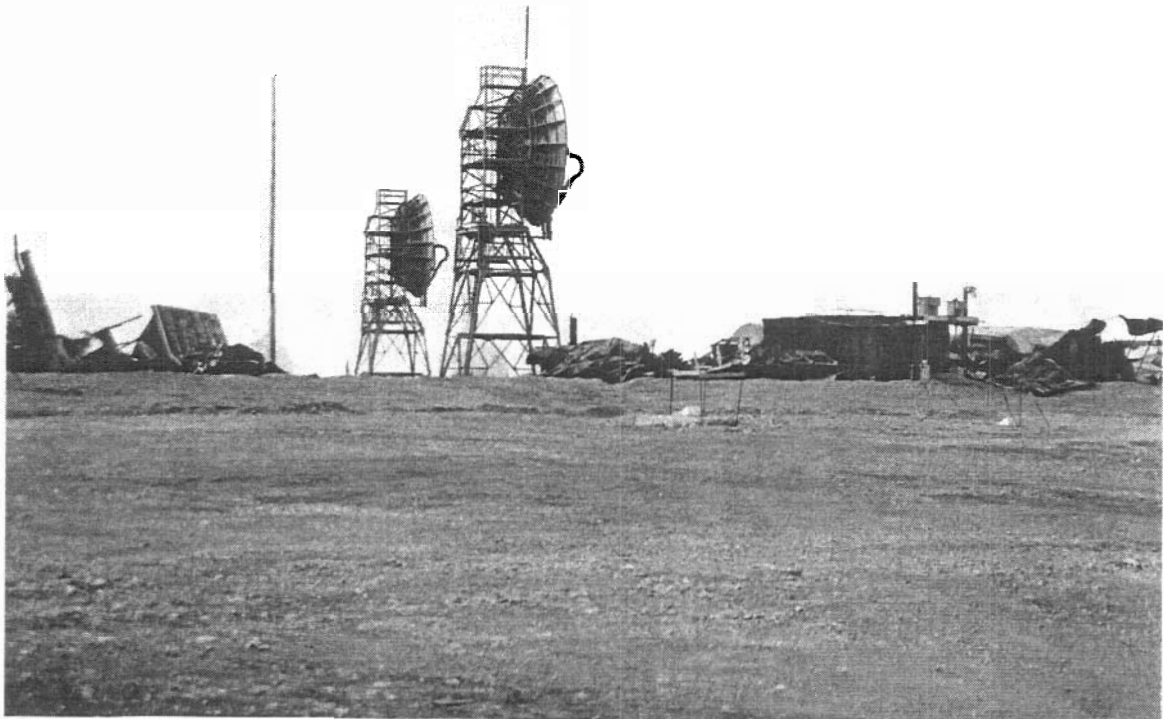


Photo 8 - Communication Dishes

Demolition Photographs
Site: PIN-3, Lady Franklin Point

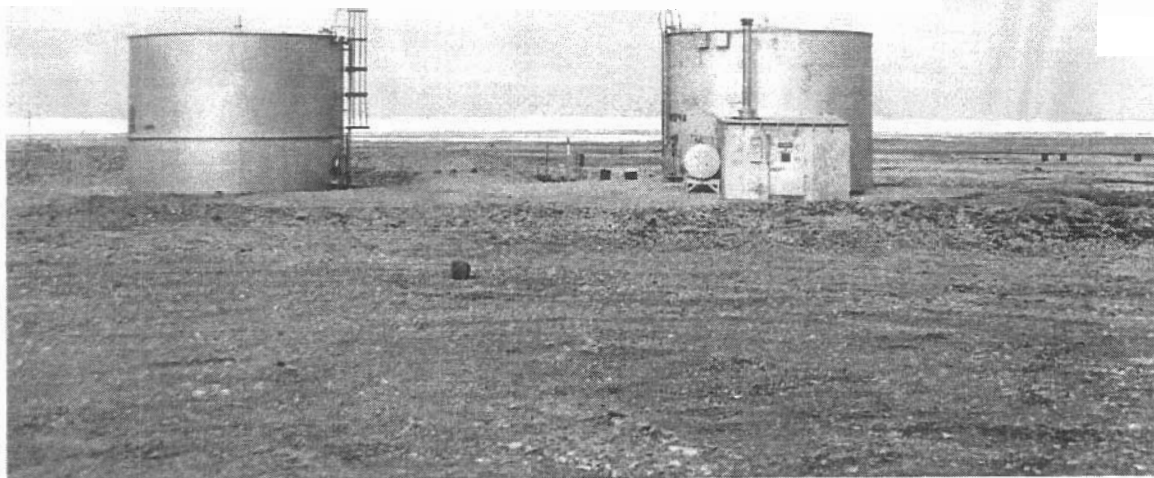


Photo 9 - Diesel Fuel Tank W22B (left side)

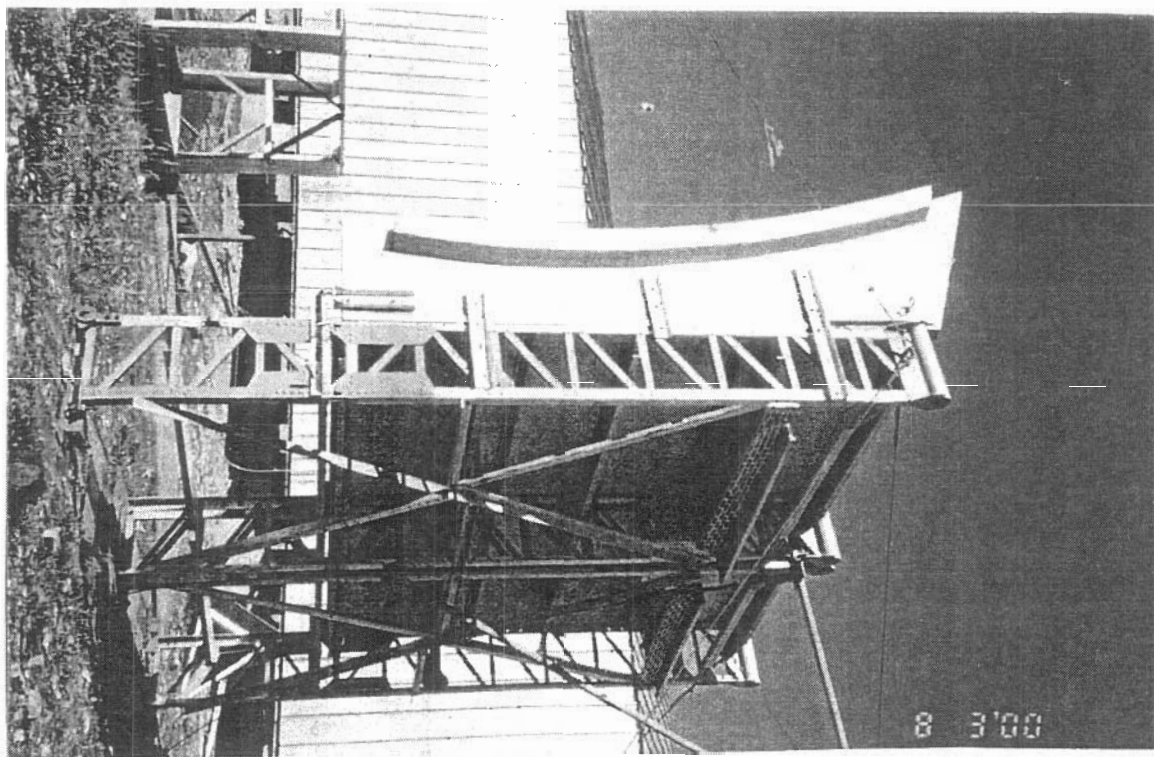


Photo 10 - TVRO Antenna

Demolition Photographs
Site: PIN-3, Lady Franklin Point



Photo 11 - Two Underground Fuel Storage Tanks at Hanger Area

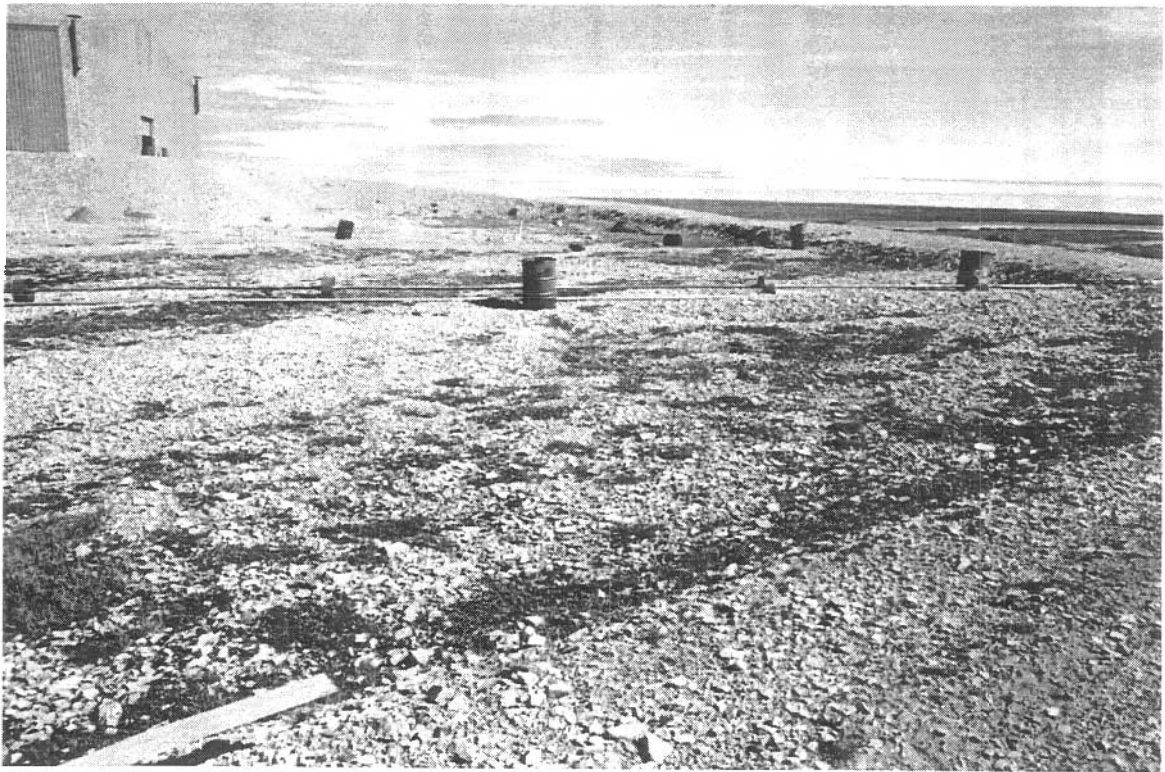


Photo 12 - Abandoned POL Line Laying on Ground near Hanger

Site Photographs
Site: PIN-3, Lady Franklin Point

Roll P3-1, Photo 6

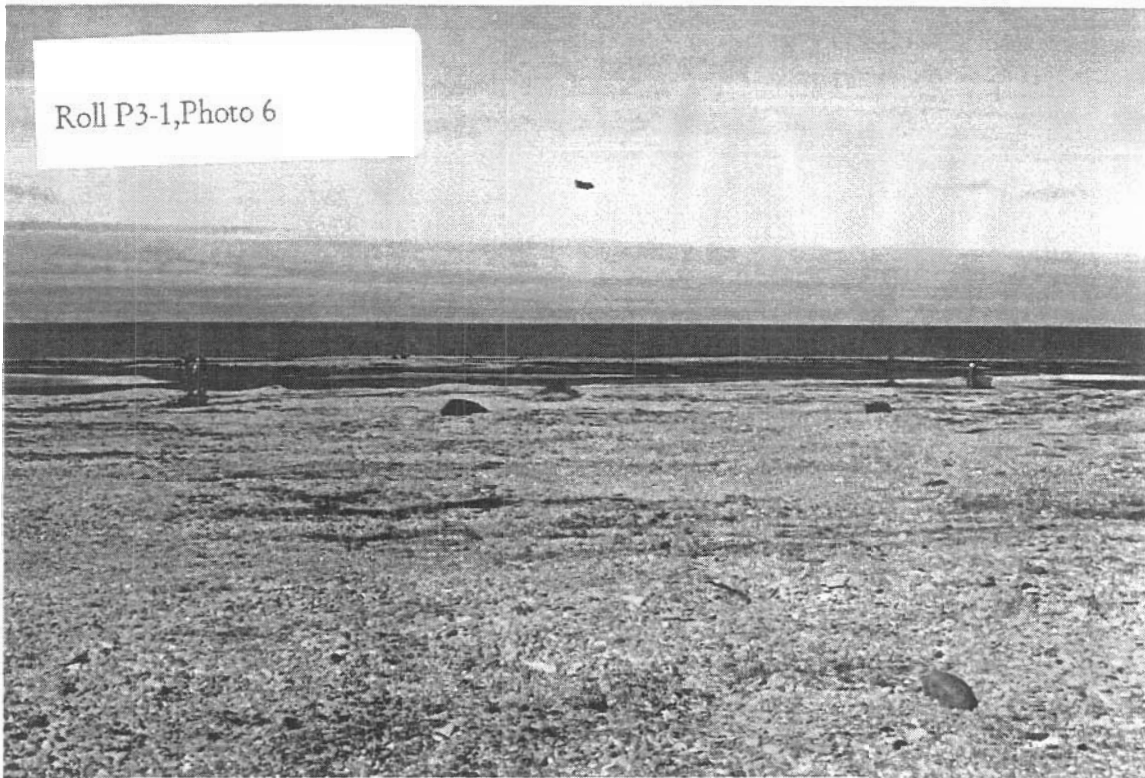


Photo 1 - Main Landfill - View to the West

Roll P3-2, #23

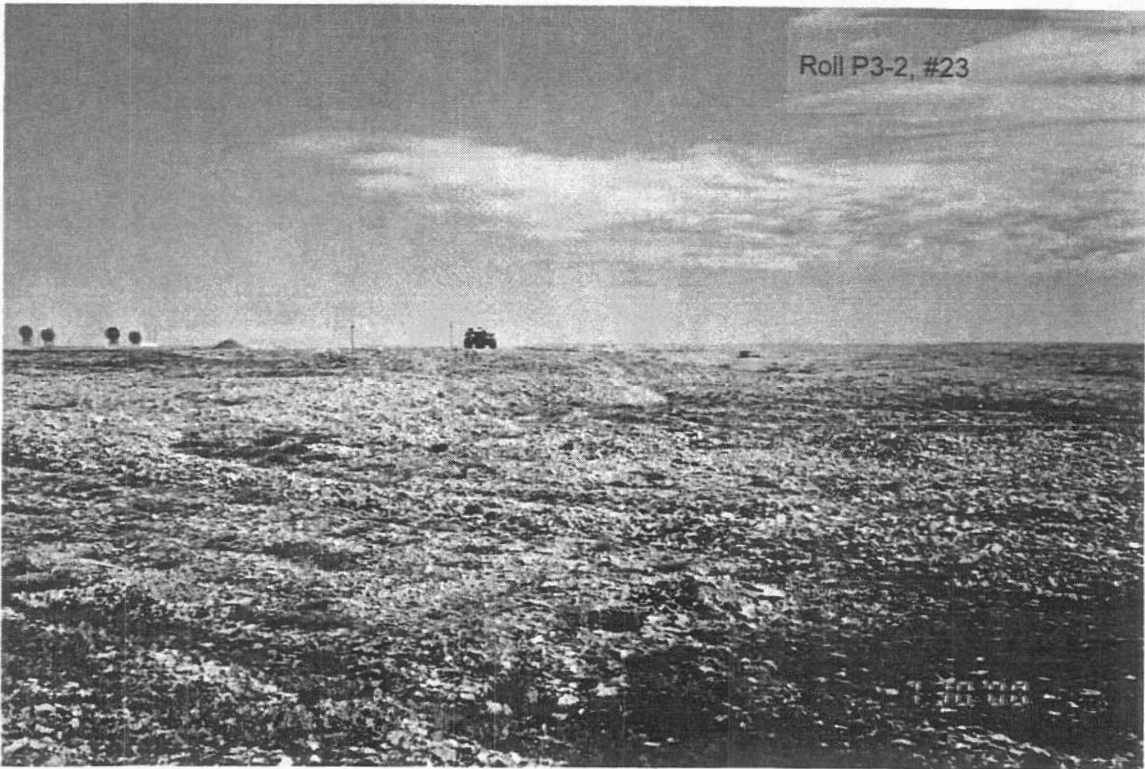


Photo 2 - Main Landfill - View to the East

Site Photographs
Site: PIN-3, Lady Franklin Point

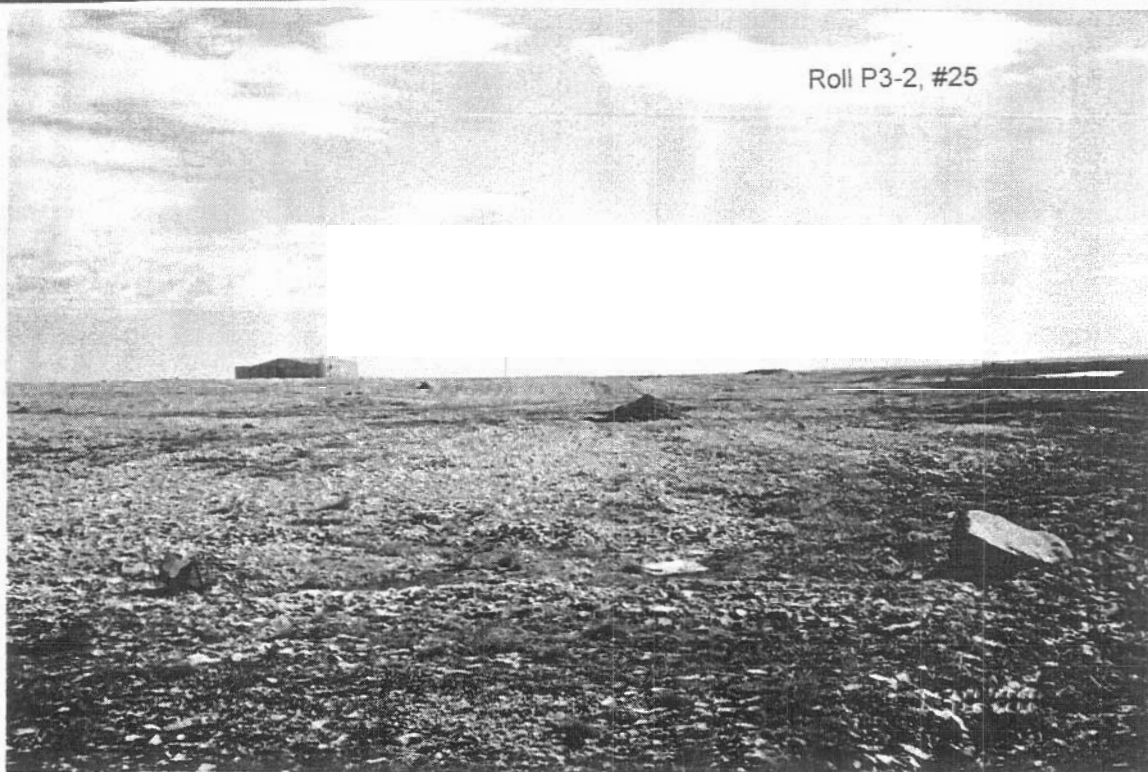


Photo 3 - Main Landfill - View to the Southeast



Photo 4 - NWS Landfill - View to the Northeast

Site Photographs
Site: PIN-3, Lady Franklin Point

Roll P3-7, #24



Photo 5 - NWS Landfill - View from Hanger Tower to the North

Roll P3-1, Photo 4



Photo 6 - North Landfill

Site Photographs
Site: PIN-3, Lady Franklin Point

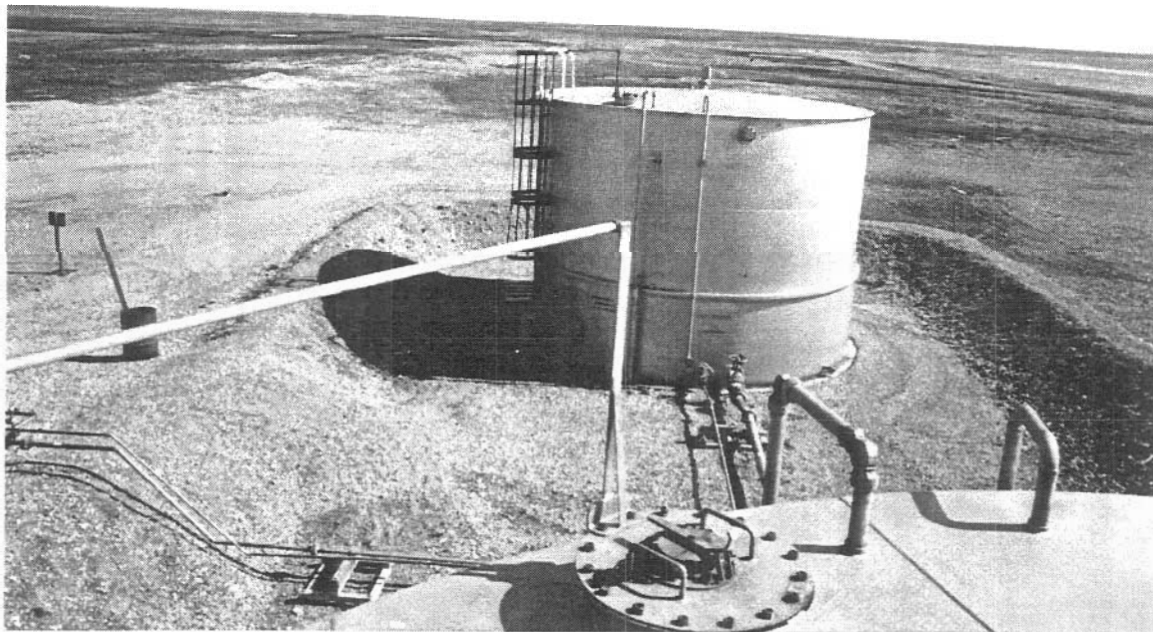


Photo 7 - South Landfill Area in Distant Background behind Tank



Photo 8 - South Landfill - East - View to North

Site Photographs
Site: PIN-3, Lady Franklin Point

Roll P3-1, Photo 20



Photo 9 - Proposed NHW Landfill Site



Photo 10 - Proposed Tier II Disposal Facility Site

Site Photographs
Site: PIN-3, Lady Franklin Point



Photo 11 - Garage Area - Contaminated Soils



Photo 12 - Diesel Re-fuelling Area - Contaminated Soils