

Specimen ID	Depth (ft)	Liquid Limit	Plastic Limit	Plasticity Index	Specific Gravity	%<#200 Sieve	Water Content (%)	Dry Density (pcf)
DLD-TP1_S1-01	1	31	17	14		31.3		
DLD-TP1_S2-03	3	31	18	13		39.6		
DLD-TP1_S2-05	5	36	22	14		69.6		
DLD-TP1_S2-07	7	31	21	10		55.9		
DLD-TP2_S1-01	1	37	25	12		71.5		
DLD-TP2_S2-03	3	23	22	1		42.0		
DLD-TP2_S2-05	5	22	21	1		37.5		
DLD-TP2_S2-07	7	33	18	15		52.7		
DLD-TP3_S1-01	1	40	20	20		59.1		
DLD-TP3_S2-03	3	37	19	18		62.0		
DLD-TP3_S2-05	5	35	18	17		52.8		
DLD-TP3_S2-07	7	31	16	15		26.0		
DLD-TP4_S1-01	1	30	20	10		54.9		
DLD-TP4_S2-03	3	31	22	9		54.9		
DLD-TP4_S2-05	5	26	17	9		53.1		
DLD-TP5_S1-01	1	27	18	9		51.1		
DLD-TP5_S2-03	3	27	18	9		51.9		
DLD-TP5_S2-05	5	33	25	8		60.8		
DLD-TP5_S2-07	7	30	20	10		57.9		
DLD-TP6_S1-01 to 03	1	41	13	28		61.1		
DLD-TP7_S1-01 to 03	1	19	16	3		17.8		

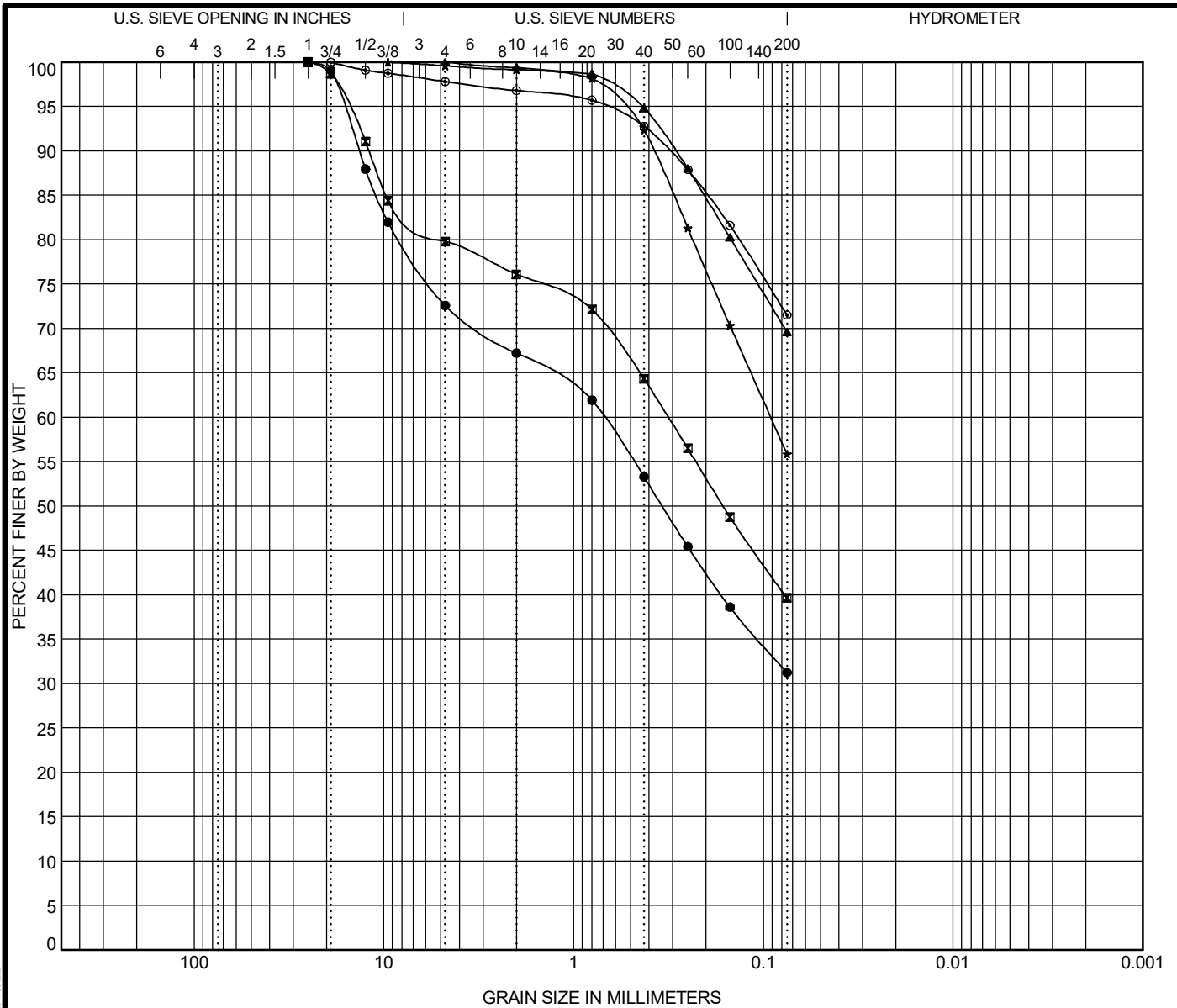
US LB SUMMARY URS LAB S2333-05-01 REACH A ECHOWATER STOCKPILE SITE.GPJ US LAB.GDT 3/10/22



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Summary of Laboratory Results

Project: USACE-Echowater Stockpile Site
 Location:
 Project Number: Geocon Project Number: S2333-05-01



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Sample No. & Depth (ft.)	Classification	LL	PL	PI	Cc	Cu
● DLD-TP1_S1-01 1	CLAYEY SAND with GRAVEL(SC)	31	17	14		
■ DLD-TP1_S2-03 3	CLAYEY SAND with GRAVEL(SC)	31	18	13		
▲ DLD-TP1_S2-05 5	SANDY LEAN CLAY(CL)	36	22	14		
★ DLD-TP1_S2-07 7	SANDY LEAN CLAY(CL)	31	21	10		
◎ DLD-TP2_S1-01 1	SILT with SAND(ML)	37	25	12		

Sample No. & Depth (ft.)	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● DLD-TP1_S1-01 1	25	0.695			27.4	41.3	31.3	
■ DLD-TP1_S2-03 3	25	0.317			20.2	40.2	39.6	
▲ DLD-TP1_S2-05 5	4.75				0.0	30.4	69.6	
★ DLD-TP1_S2-07 7	9.5	0.091			0.4	43.7	55.9	
◎ DLD-TP2_S1-01 1	19				2.2	26.3	71.5	



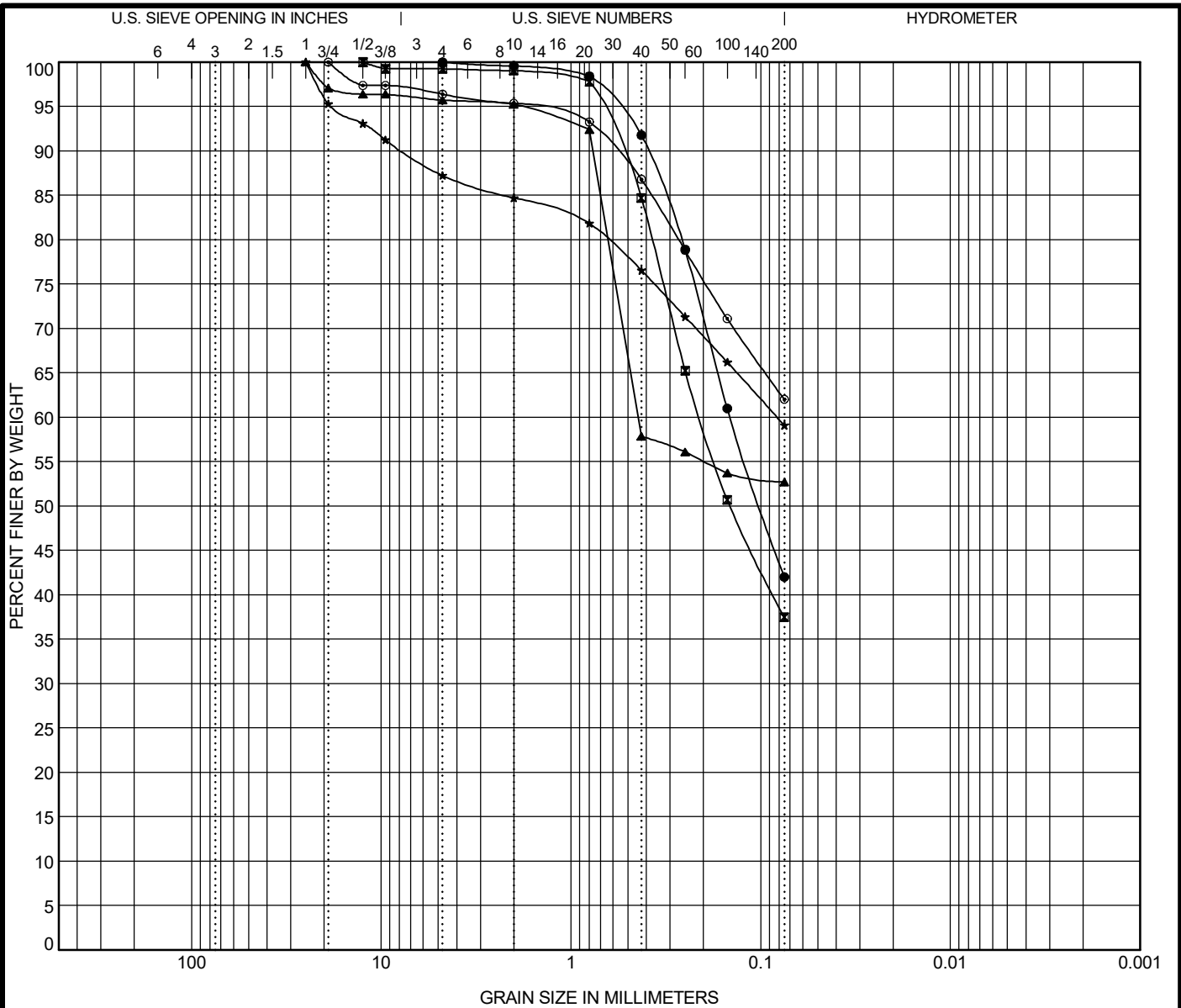
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GRAIN SIZE DISTRIBUTION

Project: USACE-Echowater Stockpile Site
 Location:
 Project Number: Geocon Project Number: S2333-05-01

GRAIN SIZE URS-DWR S2333-05-01 REACH A ECHOWATER STOCKPILE SITE.GPJ US LAB.GDT 3/10/22

GRAIN SIZE URS-DWR S2333-05-01 REACH A ECHOWATER STOCKPILE SITE.GPJ US LAB.GDT 3/10/22



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

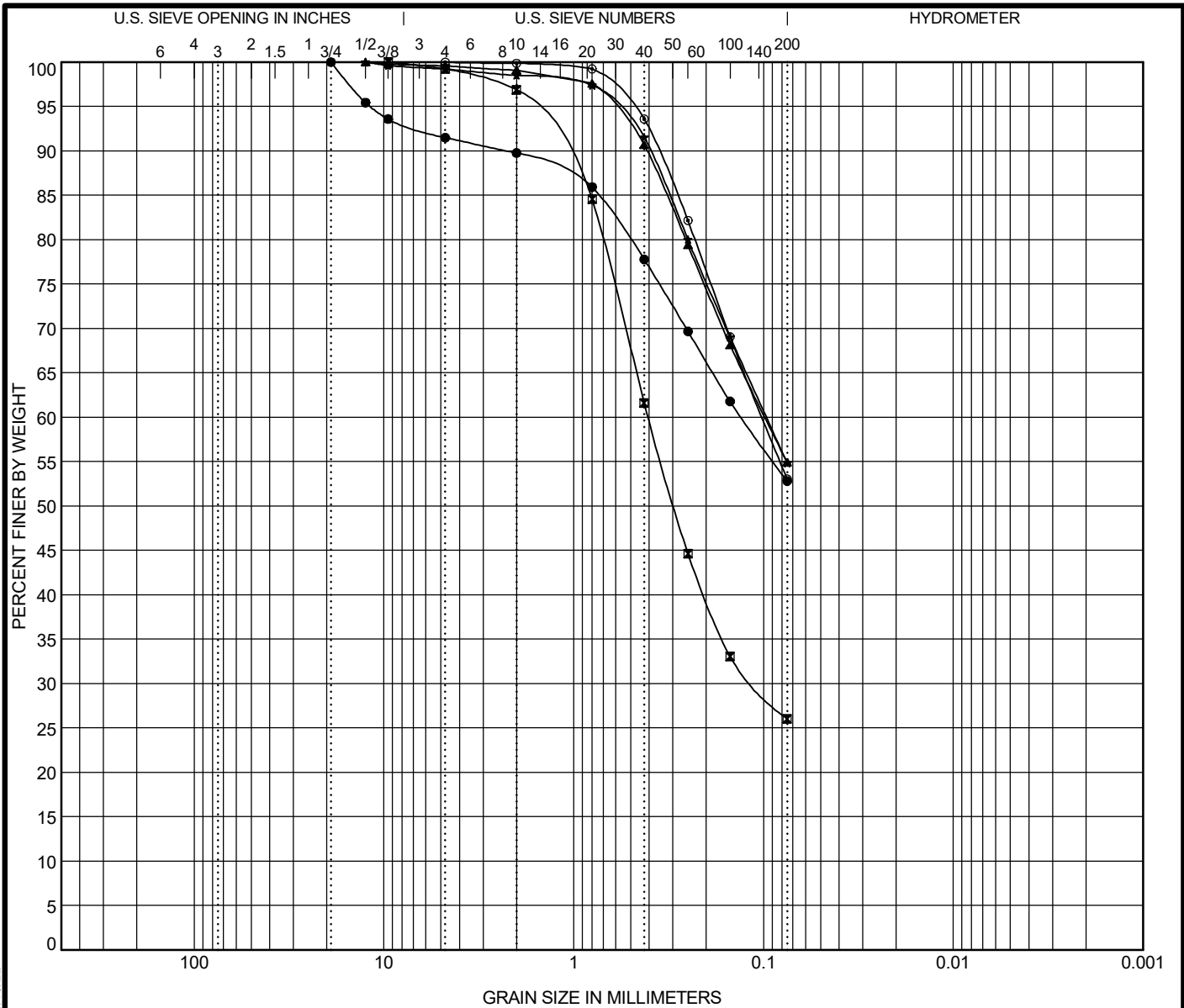
Sample No. & Depth (ft.)	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● DLD-TP2_S2-03 3	4.75	0.145			0.0	58.0	42.0	
■ DLD-TP2_S2-05 5	12.5	0.208			0.8	61.8	37.5	
▲ DLD-TP2_S2-07 7	25	0.442			4.3	43.0	52.7	
★ DLD-TP3_S1-01 1	25	0.082			12.8	28.1	59.1	
⊙ DLD-TP3_S2-03 3	19				3.6	34.4	62.0	



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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Sample No. & Depth (ft.)	Classification	LL	PL	PI	Cc	Cu
● DLD-TP3_S2-05 5	SANDY LEAN CLAY(CL)	35	18	17		
☒ DLD-TP3_S2-07 7	CLAYEY SAND(SC)	31	16	15		
▲ DLD-TP4_S1-01 1	SANDY LEAN CLAY(CL)	30	20	10		
★ DLD-TP4_S2-03 3	SANDY LEAN CLAY(CL)	31	22	9		
◎ DLD-TP4_S2-05 5	SANDY LEAN CLAY(CL)	26	17	9		

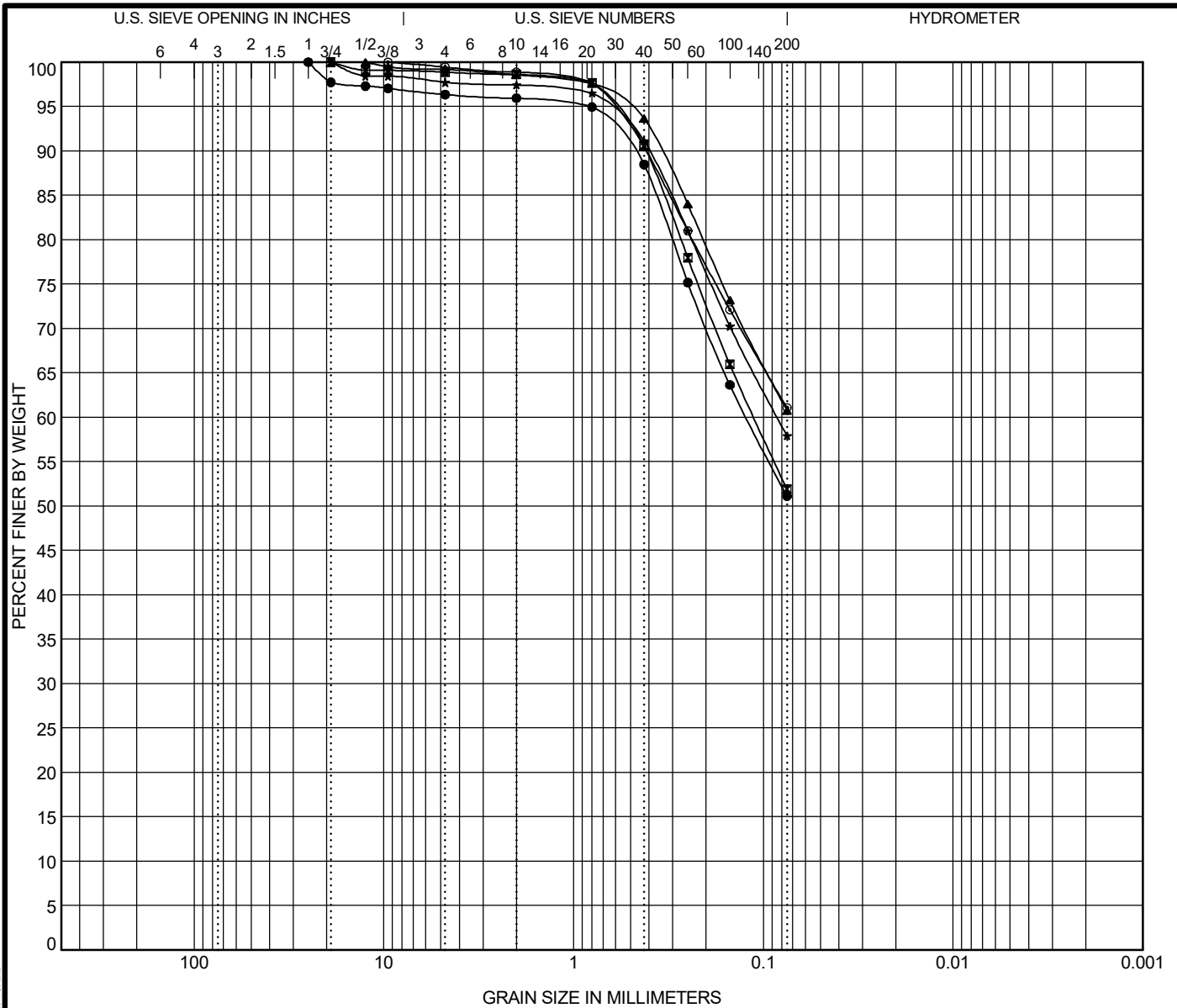
Sample No. & Depth (ft.)	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● DLD-TP3_S2-05 5	19	0.131			8.5	38.7	52.8	
☒ DLD-TP3_S2-07 7	9.5	0.404	0.111		0.8	73.2	26.0	
▲ DLD-TP4_S1-01 1	12.5	0.098			0.4	44.6	54.9	
★ DLD-TP4_S2-03 3	12.5	0.096			0.8	44.4	54.9	
◎ DLD-TP4_S2-05 5	4.75	0.101			0.0	46.9	53.1	


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 Location:
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GRAIN SIZE URS-DWR S2333-05-01 REACH A ECHOWATER STOCKPILE SITE.GPJ US LAB.GDT 3/10/22



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Sample No. & Depth (ft.)	Classification					LL	PL	PI	Cc	Cu
● DLD-TP5_S1-01 1	SANDY LEAN CLAY(CL)					27	18	9		
☒ DLD-TP5_S2-03 3	SANDY LEAN CLAY(CL)					27	18	9		
▲ DLD-TP5_S2-05 5	SANDY SILT(ML)					33	25	8		
★ DLD-TP5_S2-07 7	SANDY LEAN CLAY(CL)					30	20	10		
◎ DLD-TP6_S1-01 to 03 1	SANDY LEAN CLAY(CL)					41	13	28		
Sample No. & Depth (ft.)	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay		
● DLD-TP5_S1-01 1	25	0.123			3.7	45.2	51.1			
☒ DLD-TP5_S2-03 3	19	0.112			1.1	47.0	51.9			
▲ DLD-TP5_S2-05 5	12.5				0.8	38.4	60.8			
★ DLD-TP5_S2-07 7	19	0.084			2.3	39.8	57.9			
◎ DLD-TP6_S1-01 to 03 1	9.5				0.6	38.4	61.1			



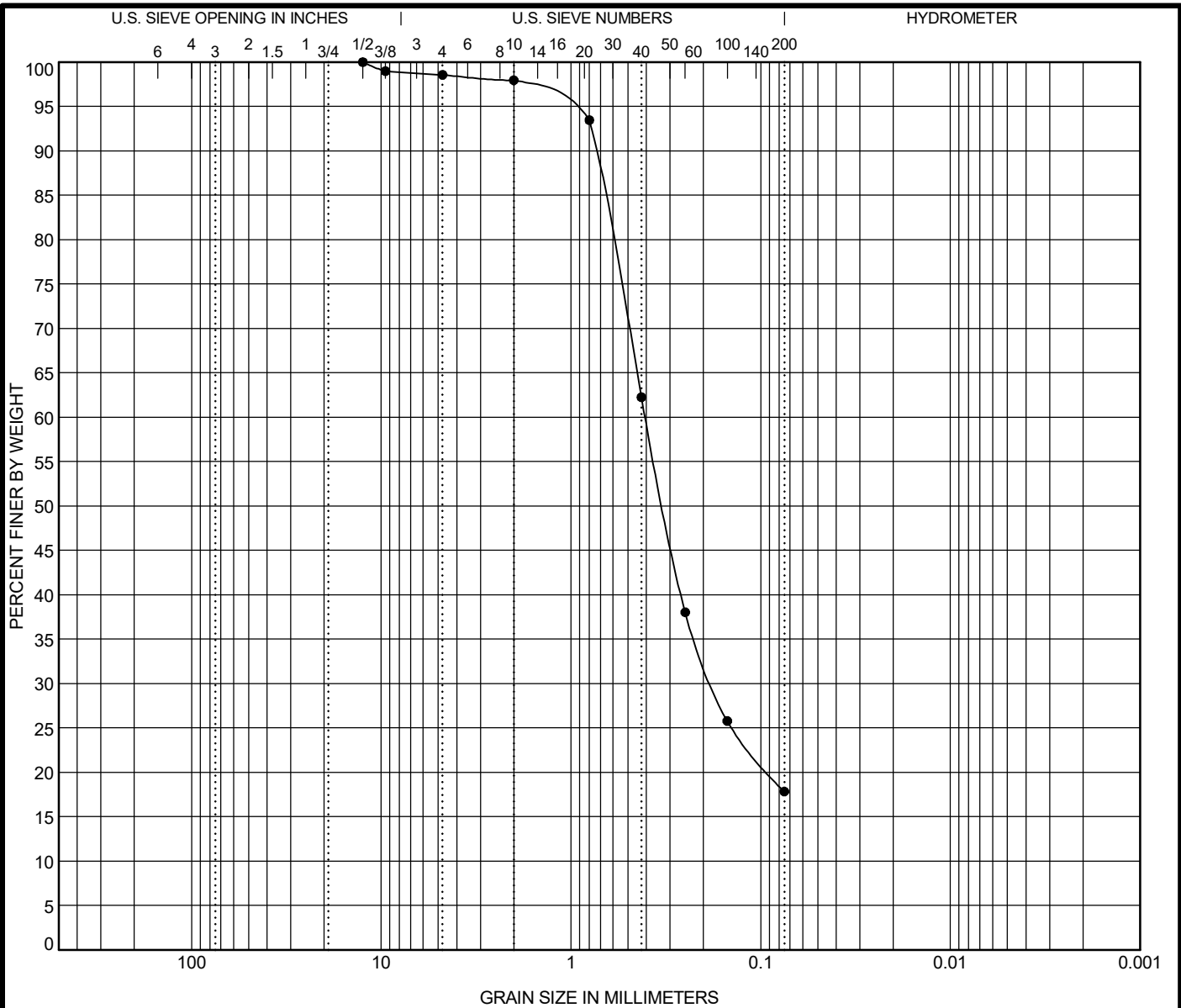
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GRAIN SIZE DISTRIBUTION

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GRAIN SIZE URS-DWR S2333-05-01 REACH A ECHOWATER STOCKPILE SITE.GPJ US LAB.GDT 3/10/22

GRAIN SIZE URS-DWR S2333-05-01 REACH A ECHOWATER STOCKPILE SITE.GPJ US LAB.GDT 3/10/22



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Sample No. & Depth (ft.)	Classification	LL	PL	PI	Cc	Cu
● DLD-TP7_S1-01 to 03 1	SILTY SAND(SM)	19	16	3		

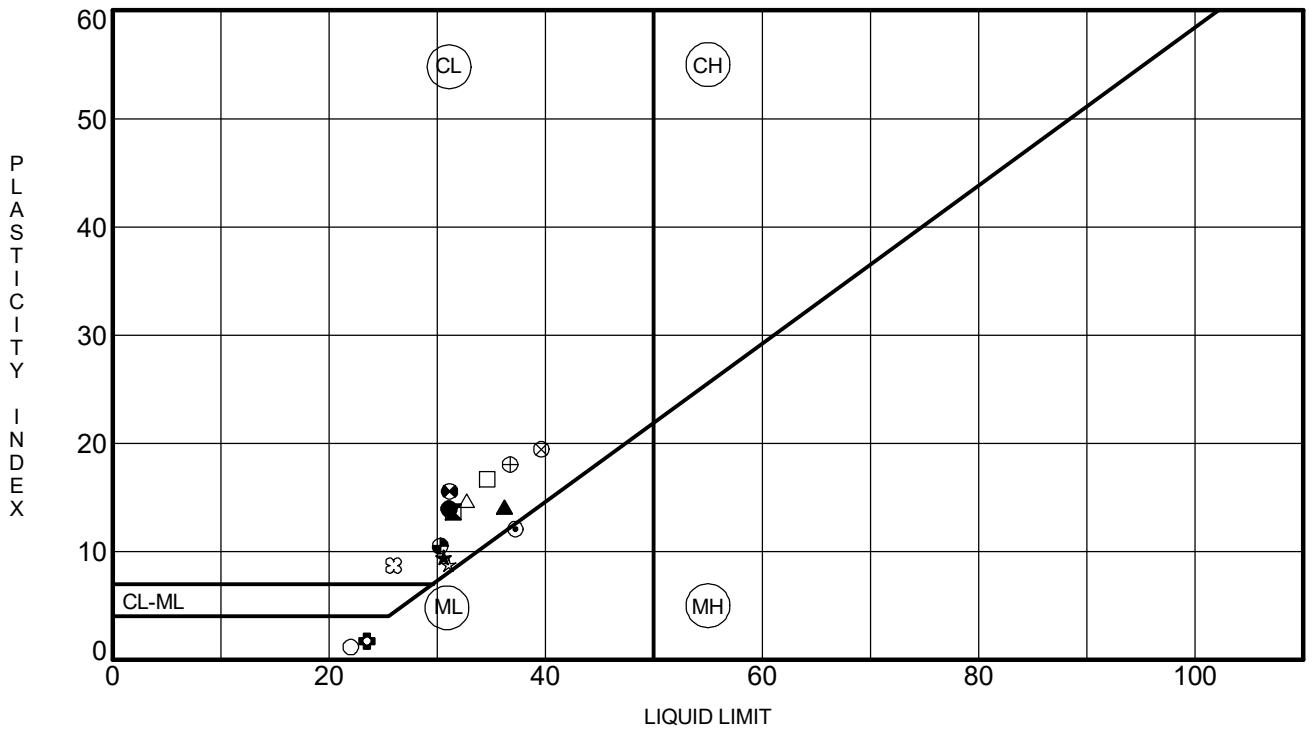
Sample No. & Depth (ft.)	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● DLD-TP7_S1-01 to 03 1	12.5	0.404	0.179		1.4	80.7	17.8	



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Project: USACE-Echowater Stockpile Site
 Location:
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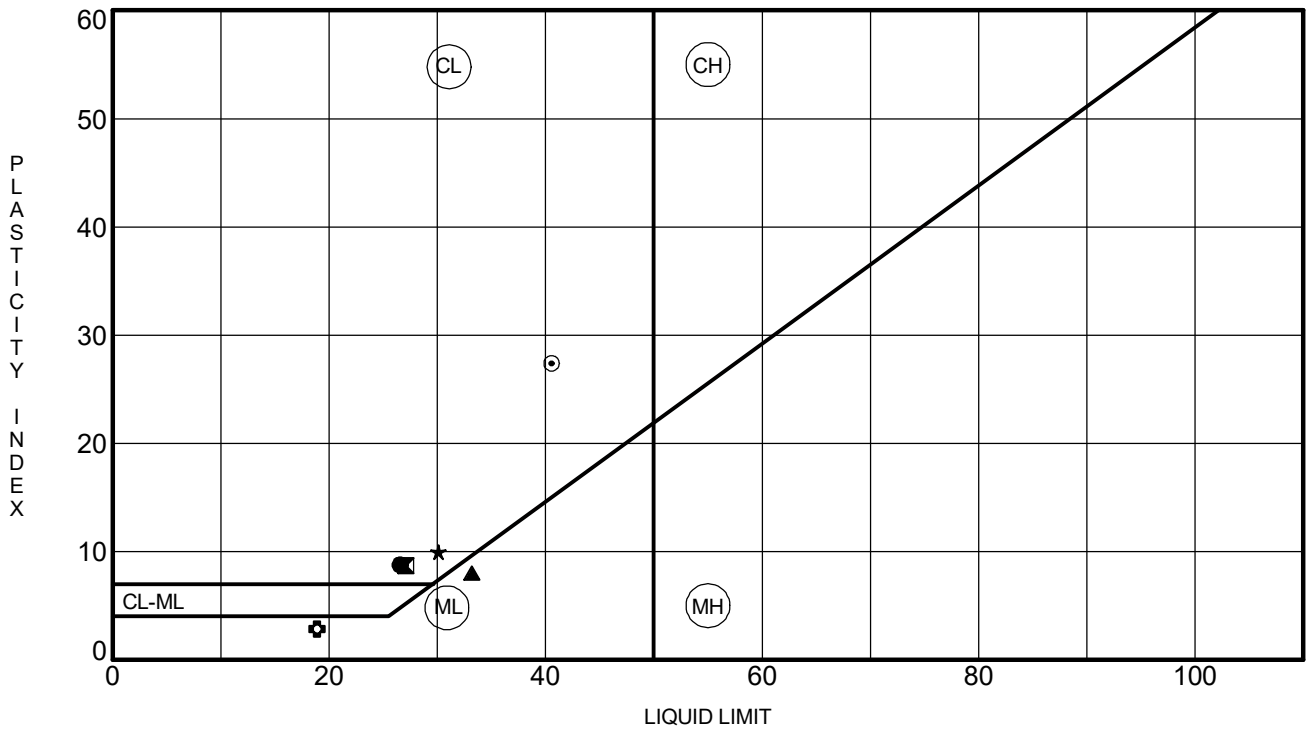
	Sample No. & Depth (ft.)	Liquid Limit	Plastic Limit	Plasticity Index	% Pass #200 Sieve	Unified Soil Classification Description	Preparation Method
●	DLD-TP1_S1-01 1	31	17	14	31.3	CLAYEY SAND with GRAVEL(SC)	wet
⊗	DLD-TP1_S2-03 3	31	18	13	39.6	CLAYEY SAND with GRAVEL(SC)	wet
▲	DLD-TP1_S2-05 5	36	22	14	69.6	SANDY LEAN CLAY(CL)	wet
★	DLD-TP1_S2-07 7	31	21	10	55.9	SANDY LEAN CLAY(CL)	wet
⊙	DLD-TP2_S1-01 1	37	25	12	71.5	SILT with SAND(ML)	wet
⊕	DLD-TP2_S2-03 3	23	22	1	42.0	SILTY SAND(SM)	wet
○	DLD-TP2_S2-05 5	22	21	1	37.5	SILTY SAND(SM)	wet
△	DLD-TP2_S2-07 7	33	18	15	52.7	SANDY LEAN CLAY(CL)	wet
⊗	DLD-TP3_S1-01 1	40	20	20	59.1	SANDY LEAN CLAY(CL)	wet
⊕	DLD-TP3_S2-03 3	37	19	18	62.0	SANDY LEAN CLAY(CL)	wet
□	DLD-TP3_S2-05 5	35	18	17	52.8	SANDY LEAN CLAY(CL)	wet
⊕	DLD-TP3_S2-07 7	31	16	15	26.0	CLAYEY SAND(SC)	wet
⊕	DLD-TP4_S1-01 1	30	20	10	54.9	SANDY LEAN CLAY(CL)	wet
★	DLD-TP4_S2-03 3	31	22	9	54.9	SANDY LEAN CLAY(CL)	wet
⊗	DLD-TP4_S2-05 5	26	17	9	53.1	SANDY LEAN CLAY(CL)	wet



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ATTERBERG LIMITS

Project: USACE-Echowater Stockpile Site
 Location:
 Project Number: Geocon Project Number: S2333-05-01



	Sample No. & Depth (ft.)	Liquid Limit	Plastic Limit	Plasticity Index	% Pass #200 Sieve	Unified Soil Classification Description	Preparation Method
●	DLD-TP5_S1-01 1	27	18	9	51.1	SANDY LEAN CLAY(CL)	wet
⊠	DLD-TP5_S2-03 3	27	18	9	51.9	SANDY LEAN CLAY(CL)	wet
▲	DLD-TP5_S2-05 5	33	25	8	60.8	SANDY SILT(ML)	wet
★	DLD-TP5_S2-07 7	30	20	10	57.9	SANDY LEAN CLAY(CL)	wet
⊙	DLD-TP6_S1-01 to 03 1	41	13	28	61.1	SANDY LEAN CLAY(CL)	wet
⊕	DLD-TP7_S1-01 to 03 1	19	16	3	17.8	SILTY SAND(SM)	wet

PI FOR DWR-URS S2333-05-01 REACH A ECHOWATER STOCKPILE SITE.GPJ US LAB.GDT 3/10/22


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ATTERBERG LIMITS

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