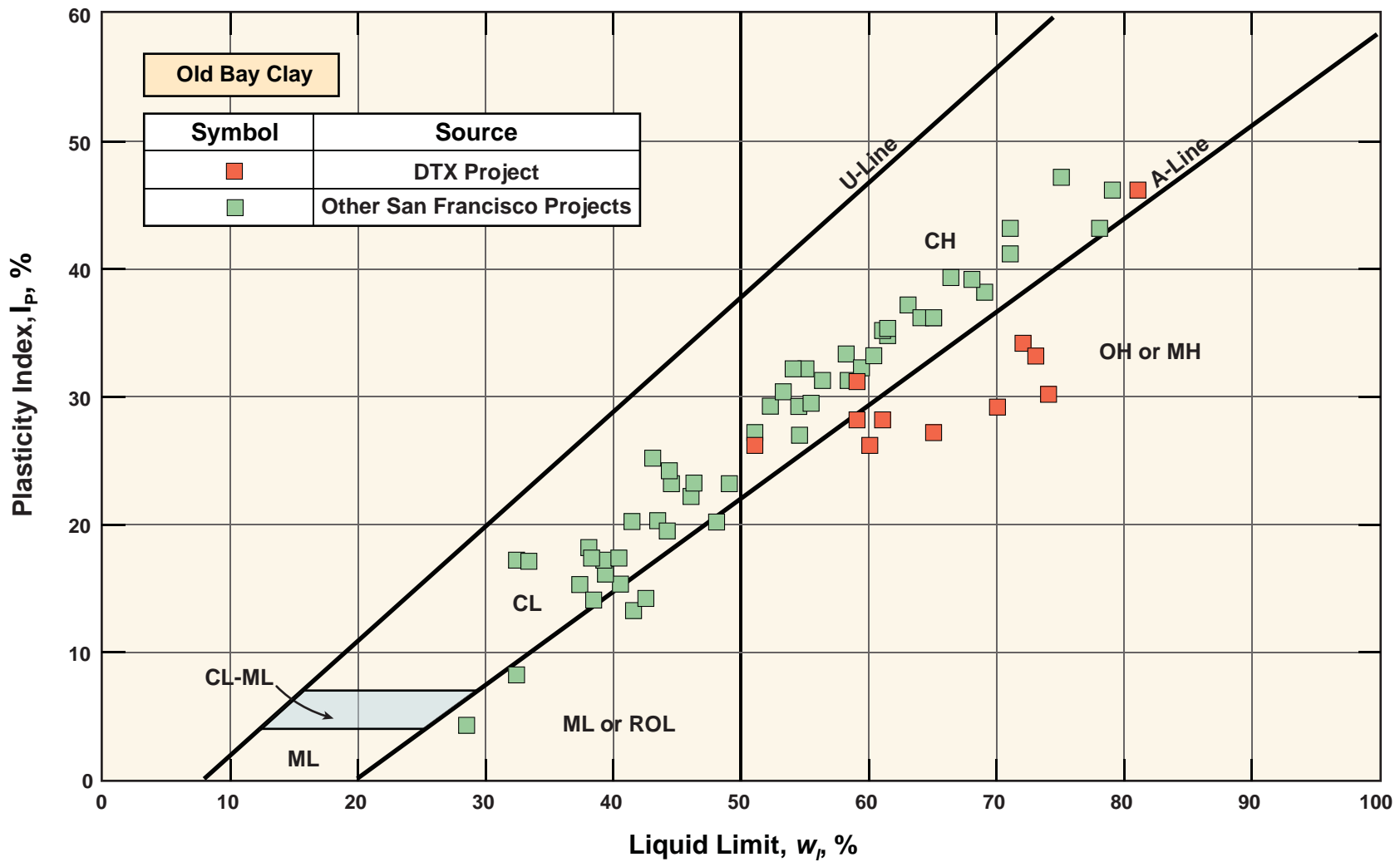
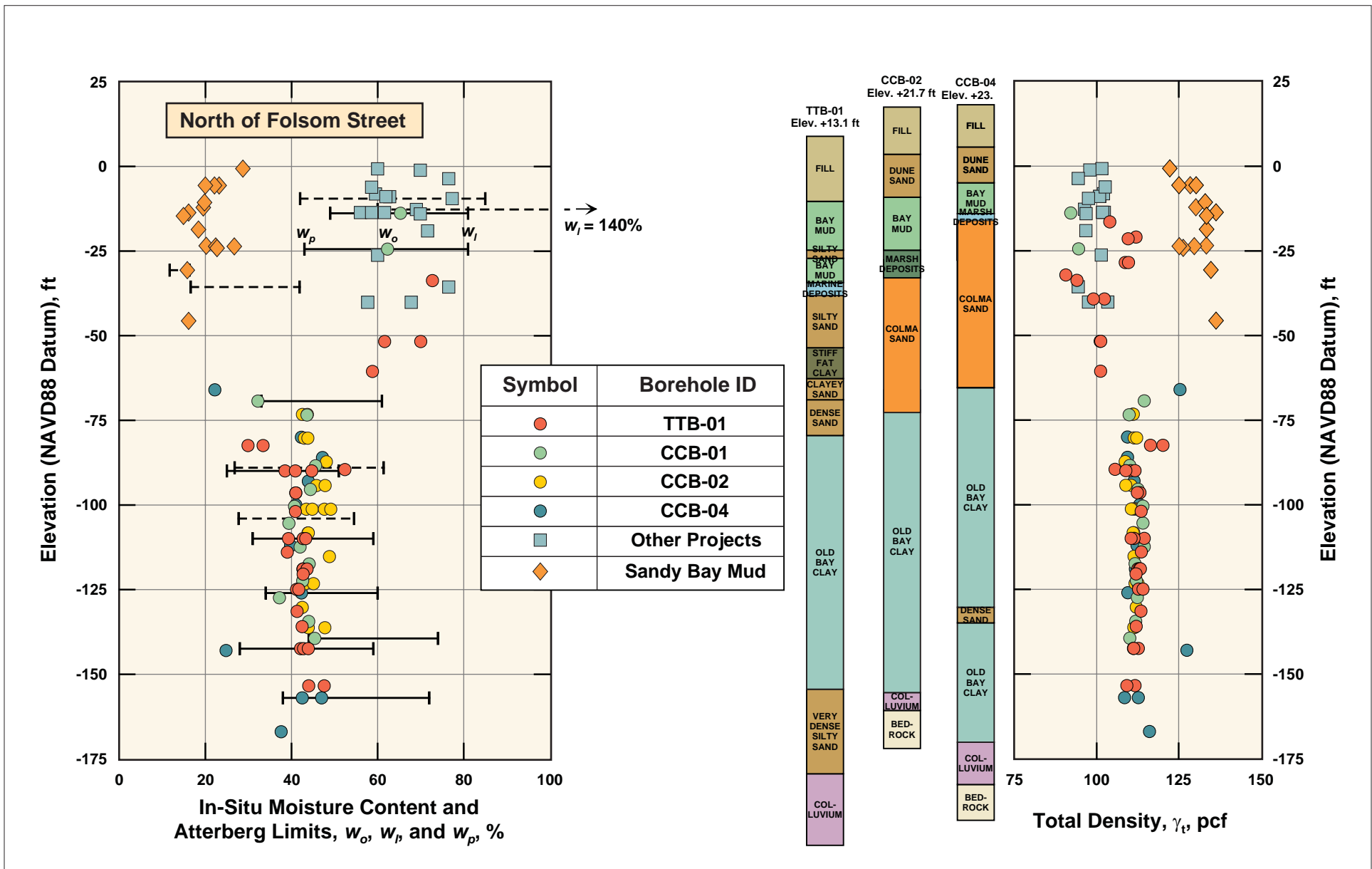


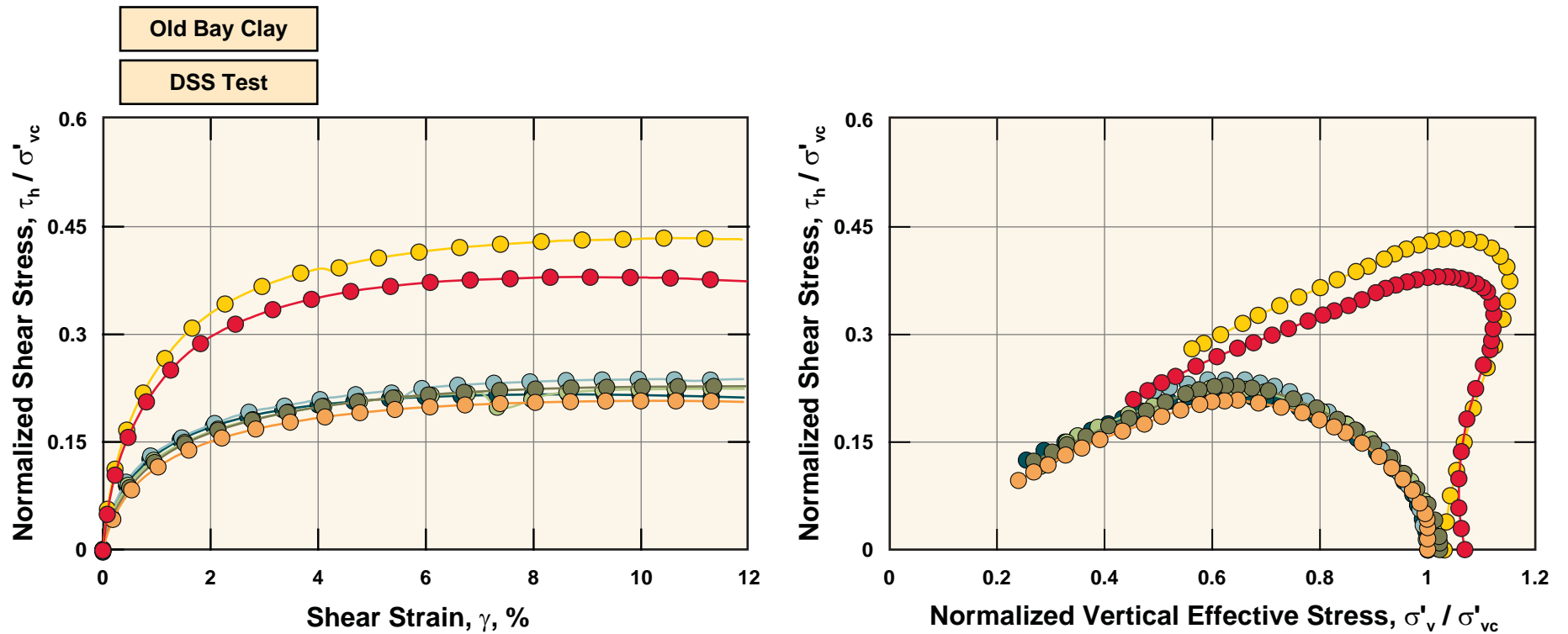
Old Bay Clay



FIG_104A: Atterberg Limits of Old Bay Clay

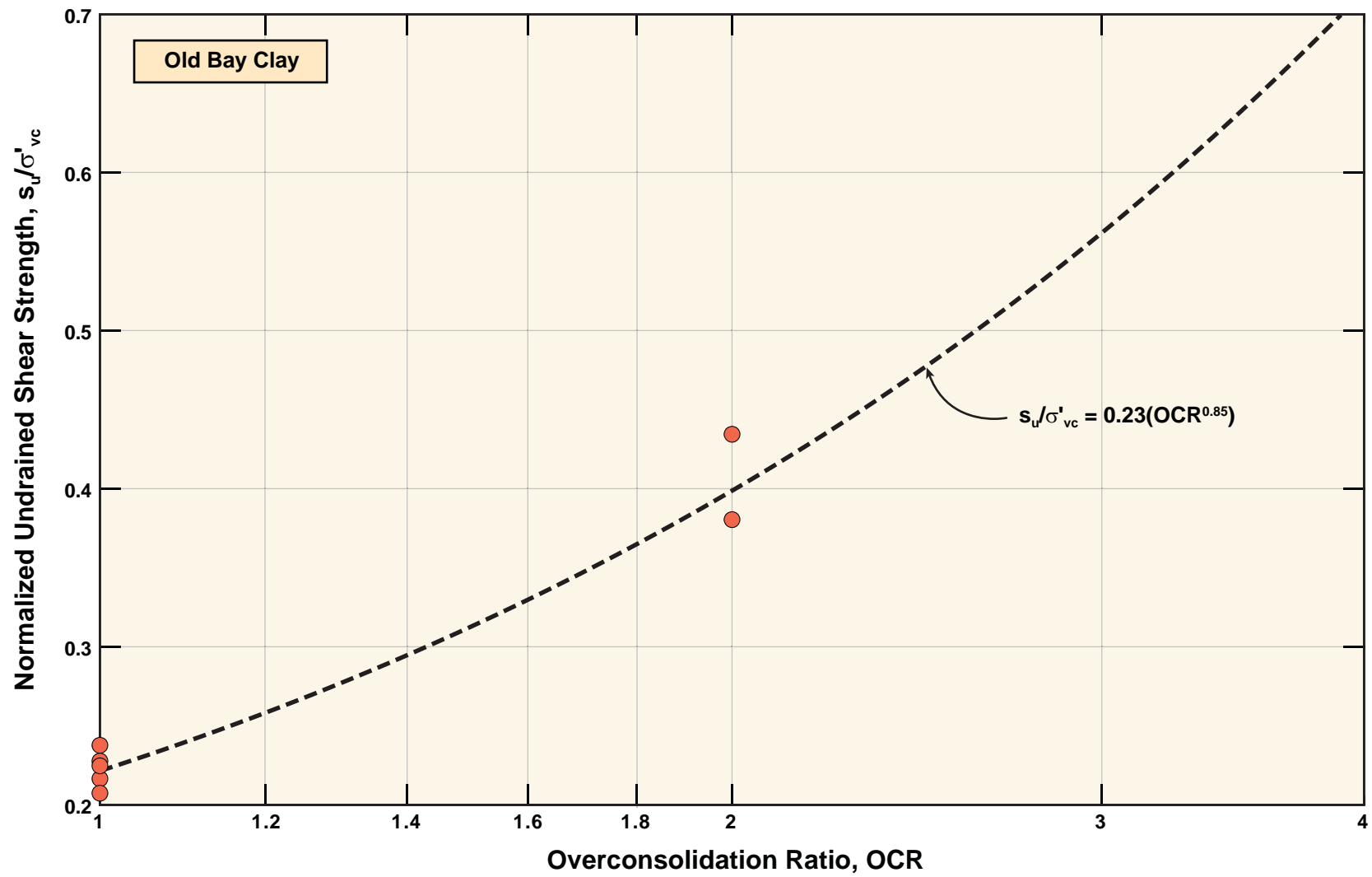


FIG_105: Index Properties of Bay Mud and Old Bay Mud Clay: Transbay Terminal Site and Vicinity

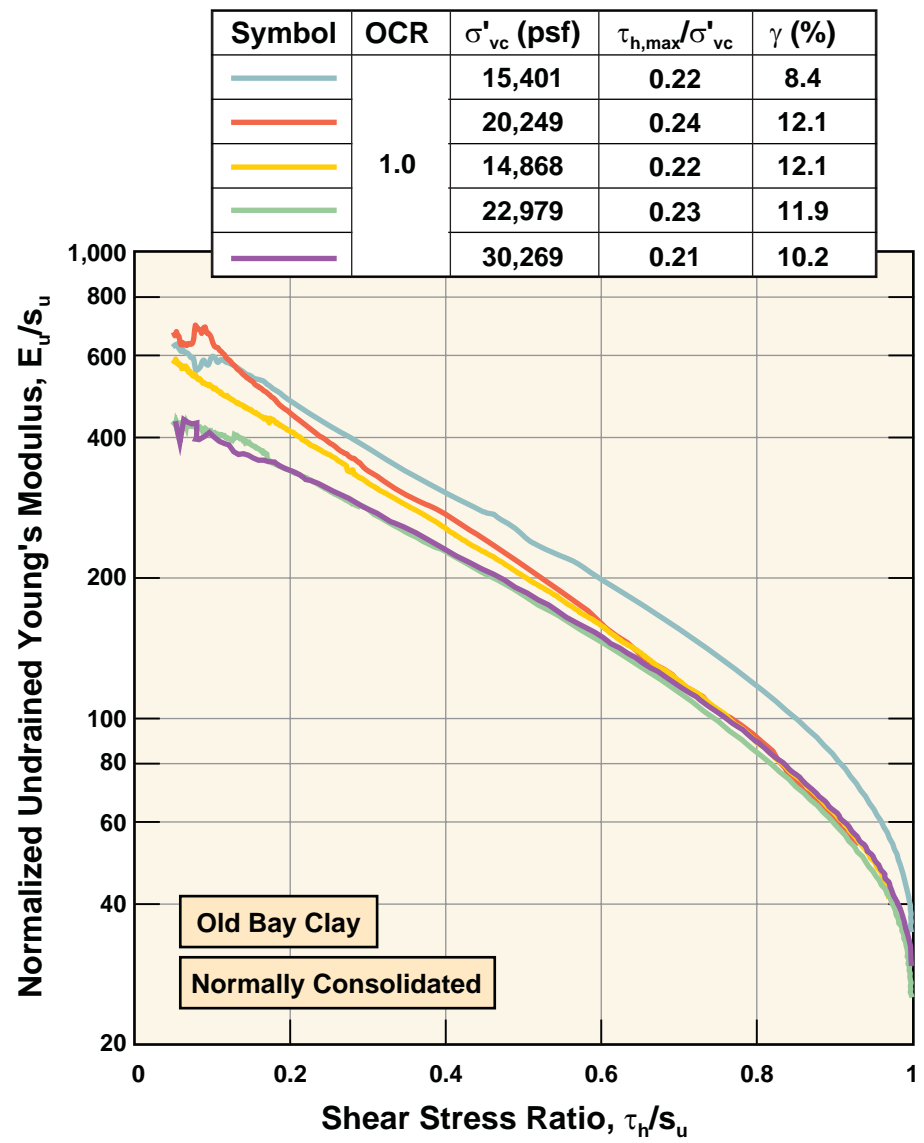


Symbol	OCR	σ'_{vc} (psf)	$\tau_{h,max} / \sigma'_{vc}$	γ (%)
●	1.0	15,401	0.22	8.4
●		20,249	0.24	12.1
●		14,868	0.22	12.1
●		22,979	0.23	11.9
●		30,269	0.21	10.2
●	2.0	9,634	0.43	10.6
●		11,301	0.38	8.9

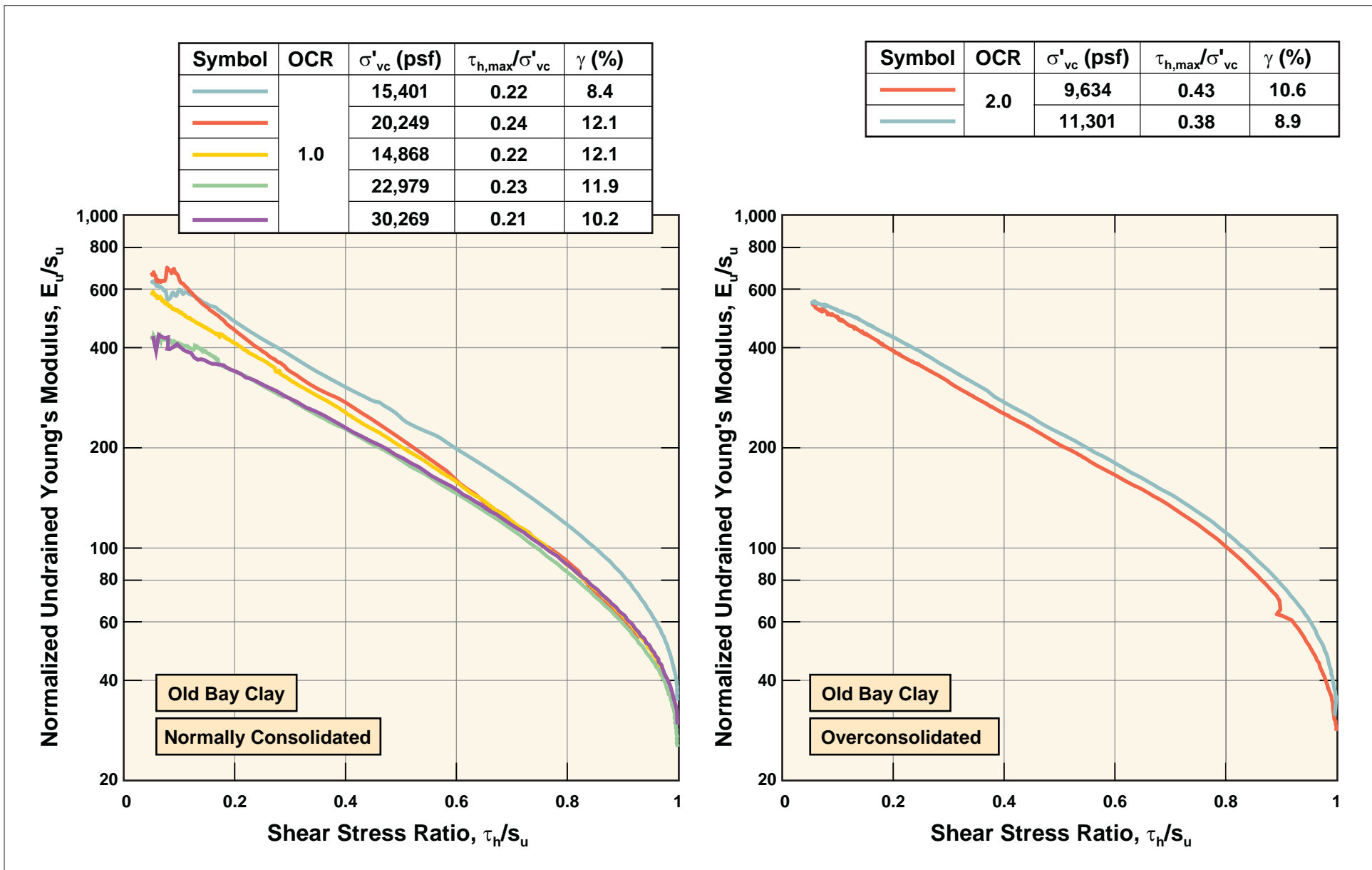
FIG_106: Normalized Stress-Strain and Effective Stress Paths from DSS Tests on Old Bay Clay



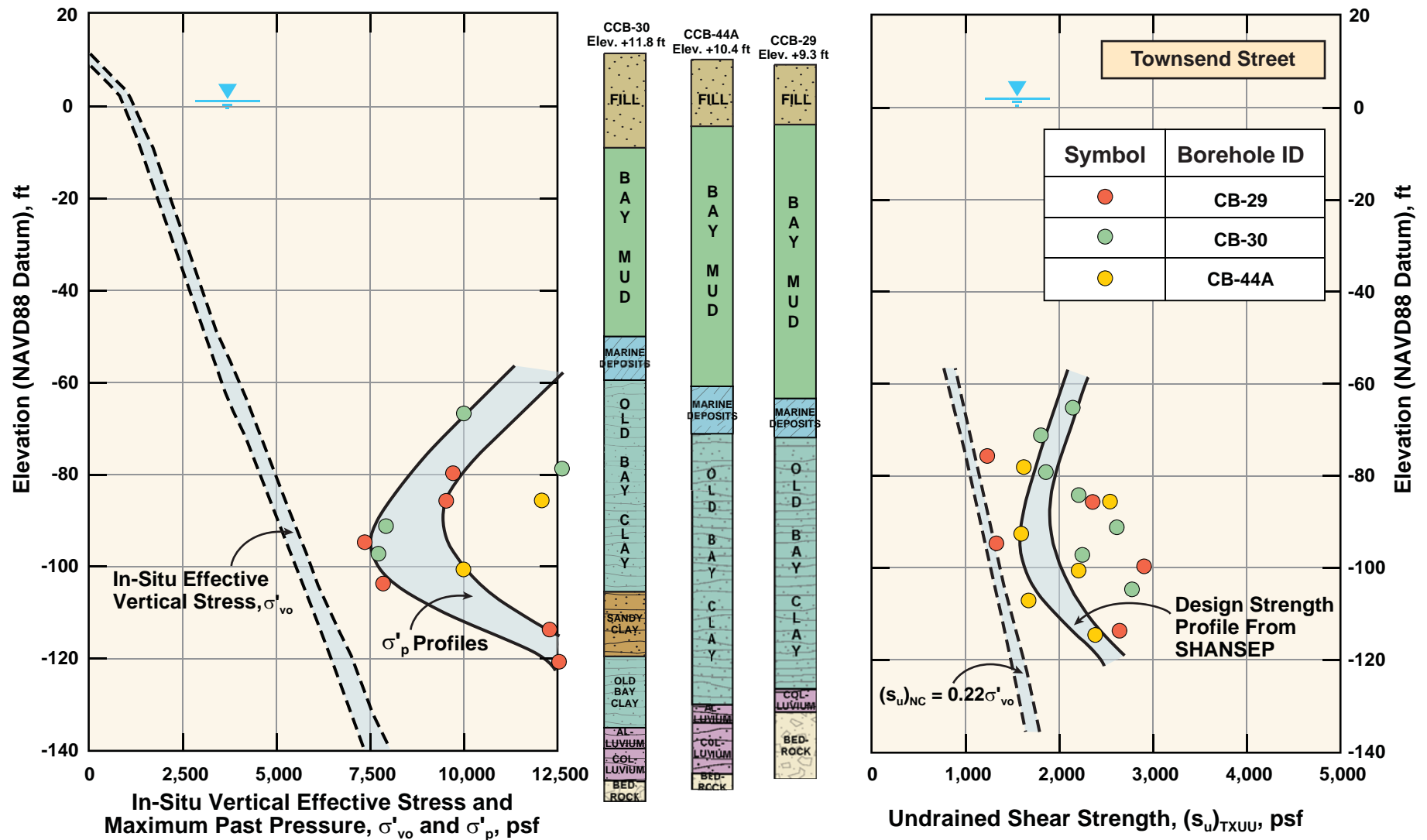
FIG_107: Normalized Undrained Shear Strength Ratios Versus Overconsolidation Ratio: DSS Tests on Old Bay Clay



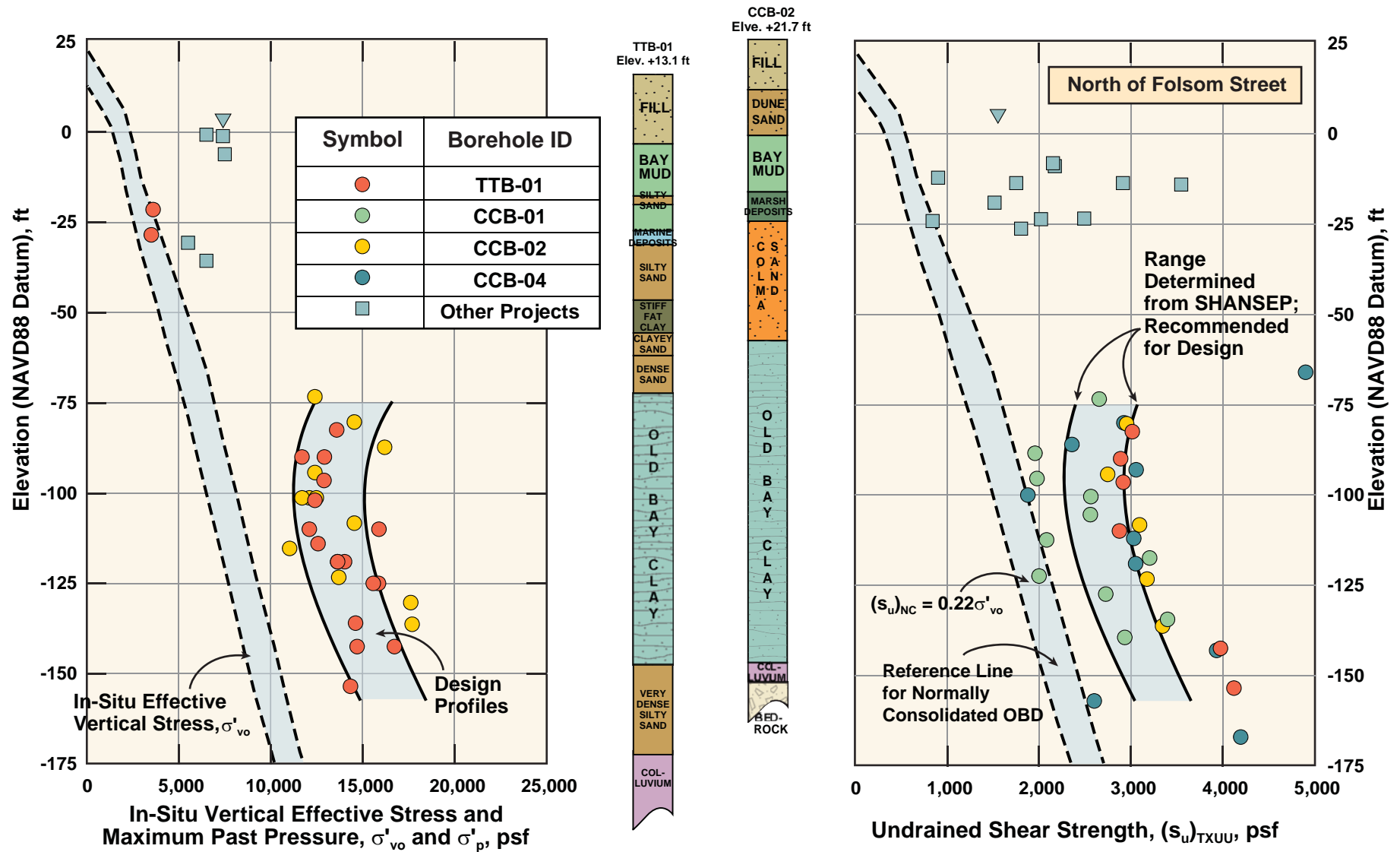
FIG_108: Normalized Undrained Young's Moduli from DDS Tests: Normally Consolidated Old Bay Clay



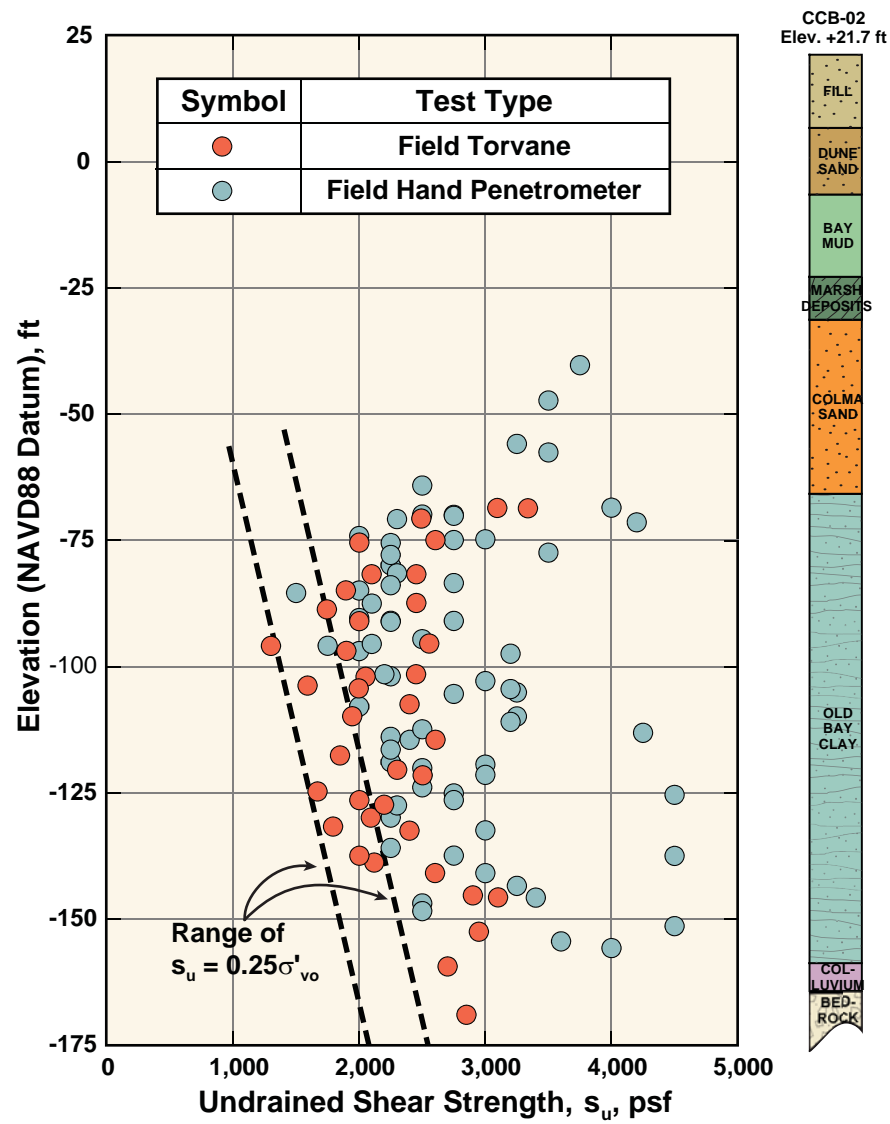
FIG_109: Normalized Young's Moduli of Old Bay Clay from Direct Simple Shear Tests



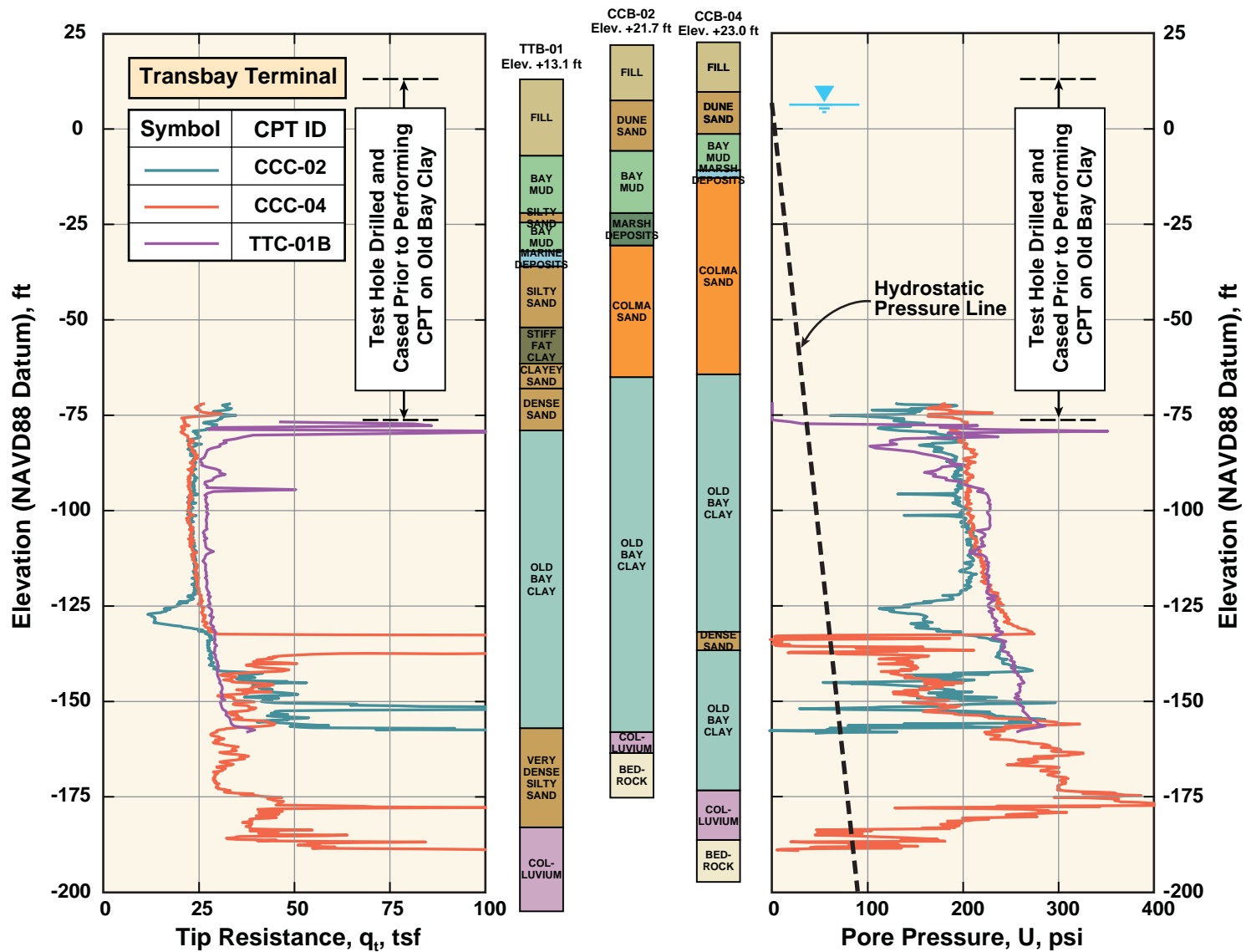
FIG_110: Stress History and Undrained Shear Strength Profiles for OBC: Mission Bay Area - Townsend Street



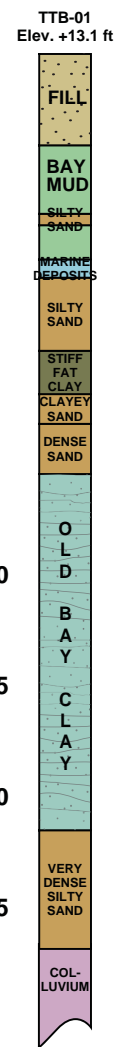
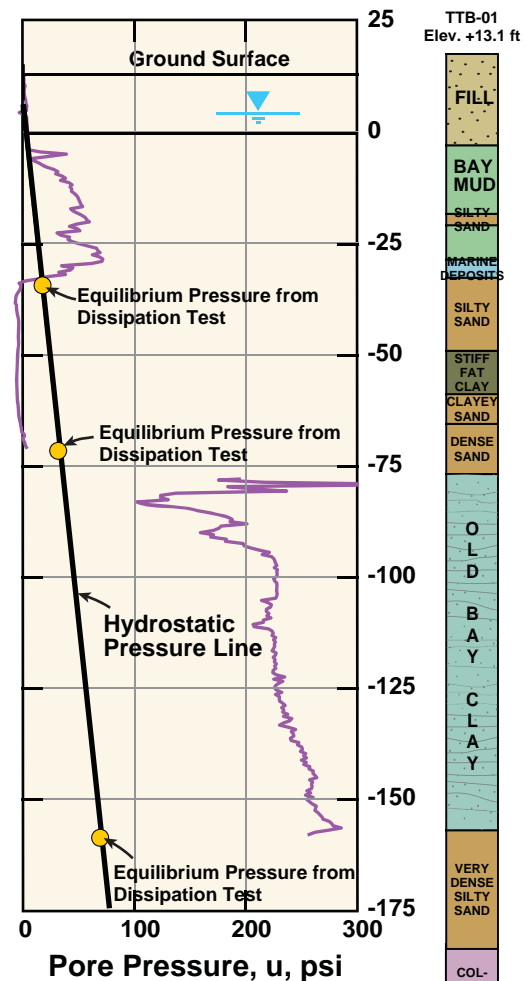
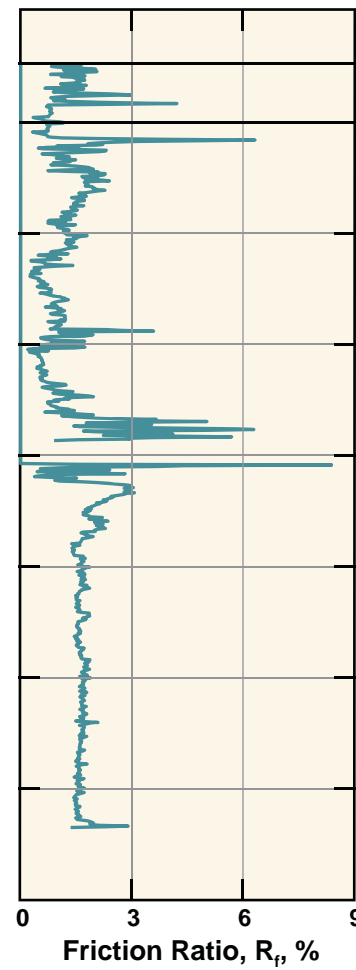
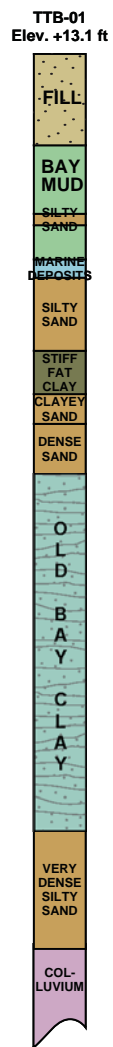
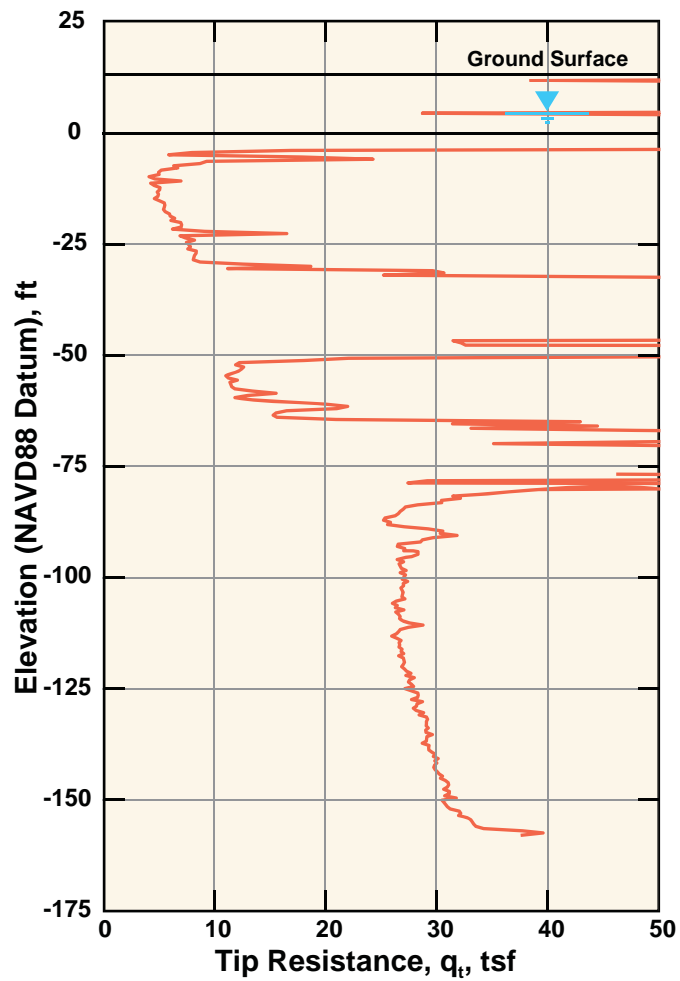
FIG_111: Stress History and Undrained Shear Strength Profiles for OBC: Transbay Terminal and Vicinity



FIG_112: Undrained Shear Strengths of Old Bay Clay from Torvane and Hand Penetrometer Tests: Transbay Terminal Site and Vicinity



FIG_113: Tip Resistance and Pore Pressures from CPT Tests Performed in the Old Bay Clay

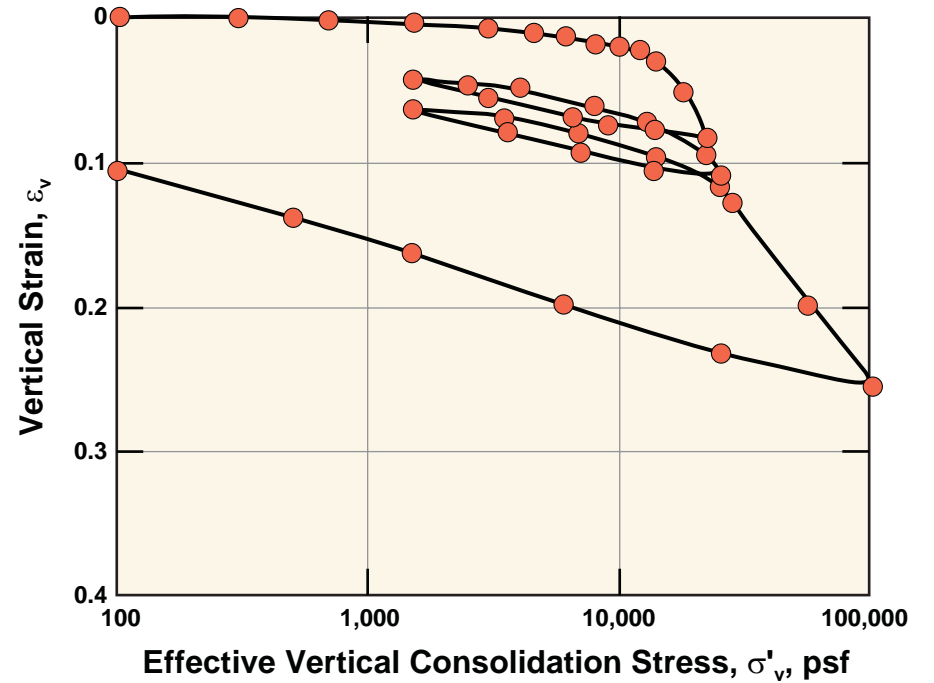
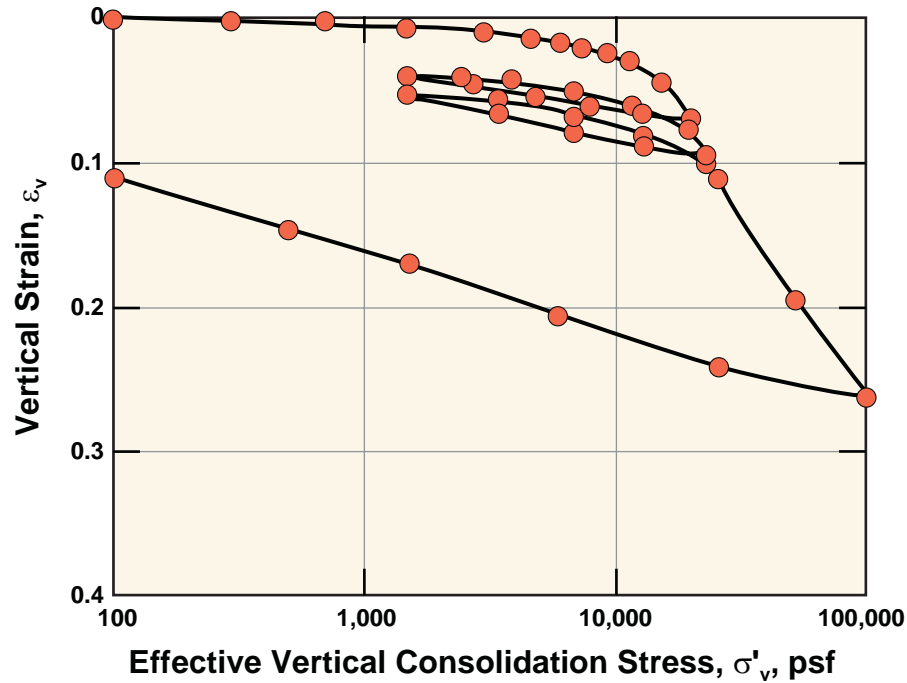


TCPT-01A and TCPT-01B

FIG_114: Results of CPT Tests: Deep OBC East End of Transbay Terminal

	Water Content (%)	Total Unit Weight (pcf)	Void Ratio	Saturation (%)	Height (in)	Diameter (in)	Specific Gravity	Liquid Limit (%)	Plastic Index (%)
Initial	38.8	114.5	1.079	98.8	1.00	2.416	(assumed) 2.75	-	-
Final	31.9	122.5	0.848	103.4	0.889				

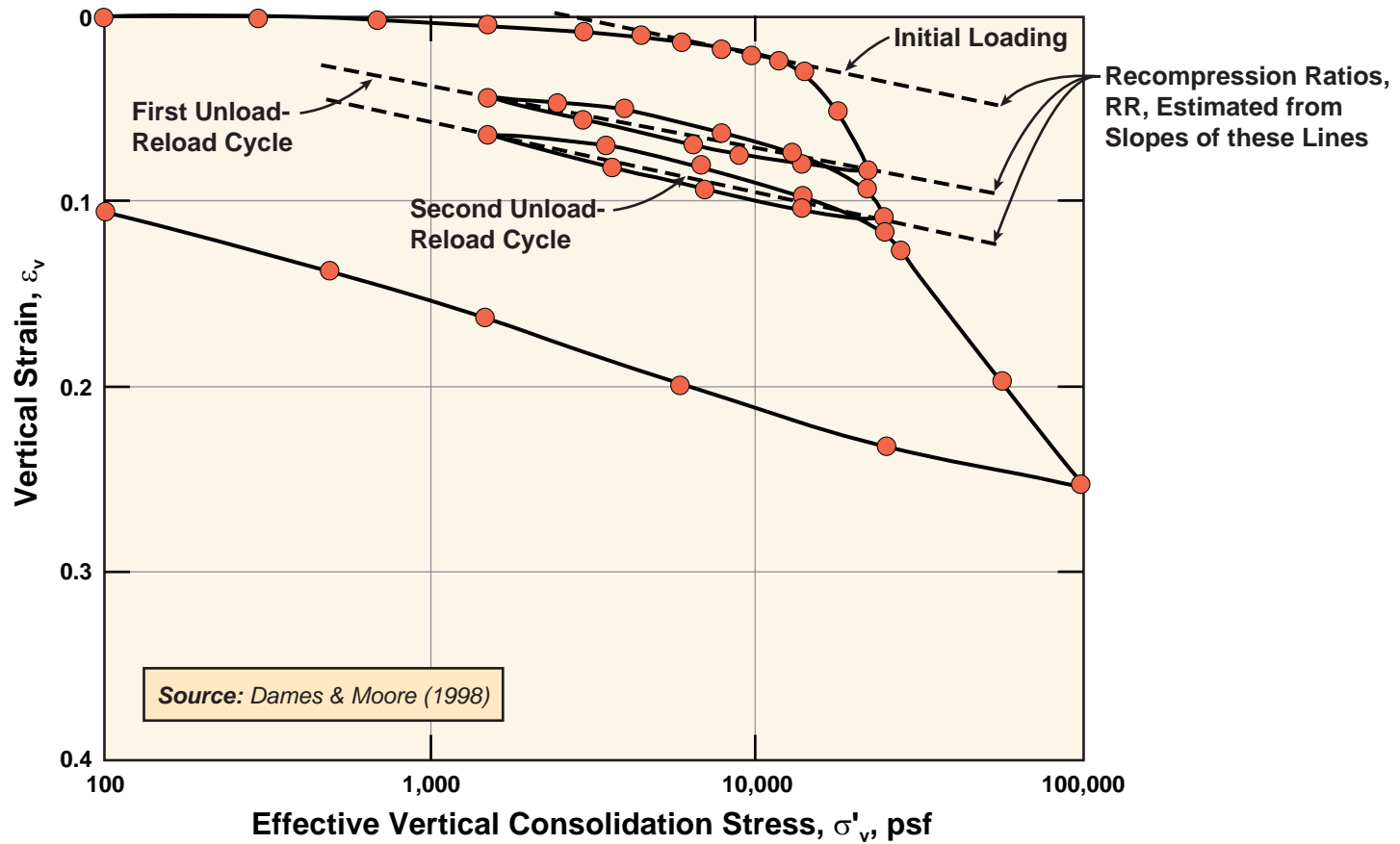
	Water Content (%)	Total Unit Weight (pcf)	Void Ratio	Saturation (%)	Height (in)	Diameter (in)	Specific Gravity	Liquid Limit (%)	Plastic Index (%)
Initial	39.2	114.8	1.081	99.7	1.00	2.416	(assumed) 2.75	-	-
Final	32.1	122	0.857	102.9	0.882				



Source: Dames & Moore (1998)

FIG_115: Typical Consolidation Test Results on Old Bay Clay

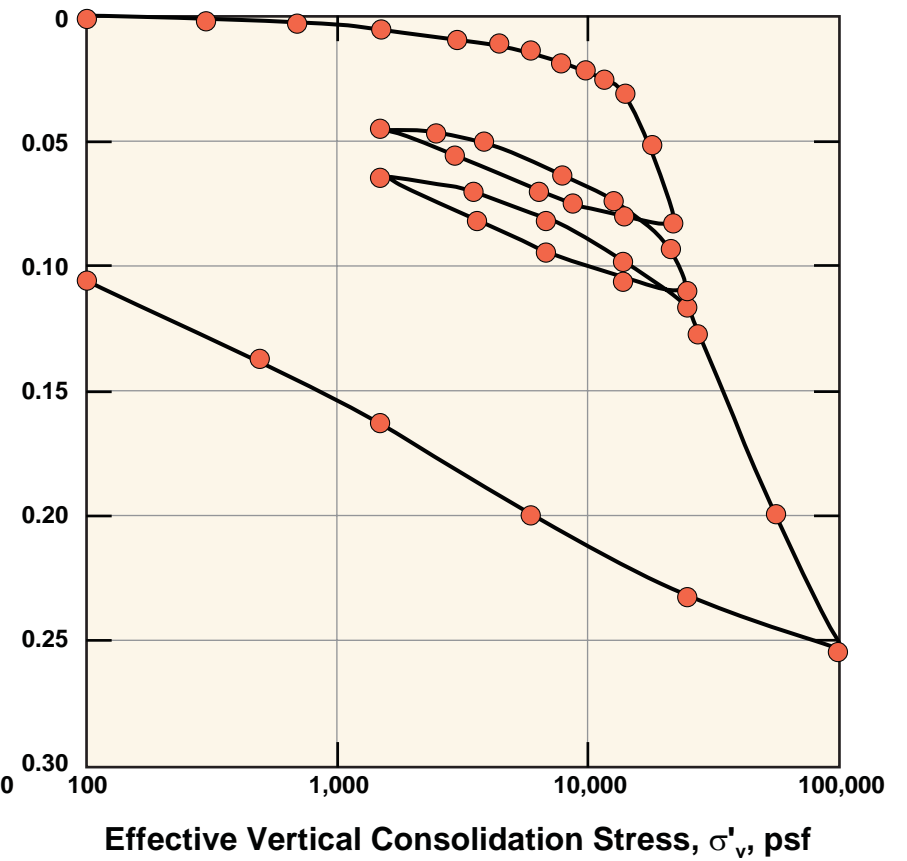
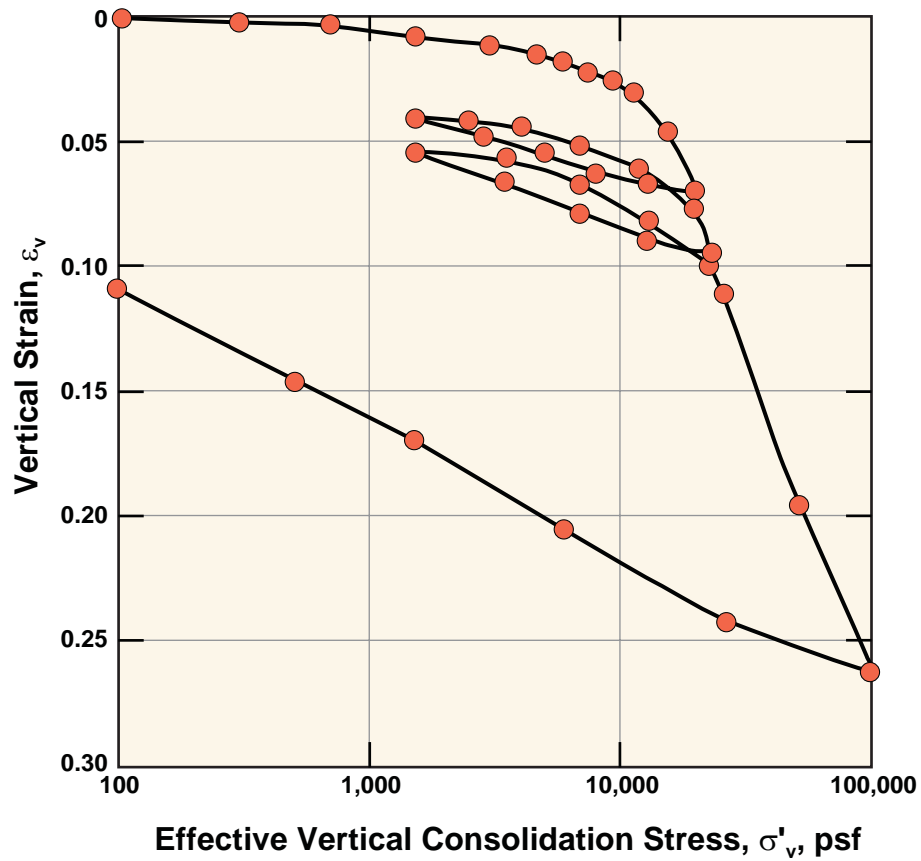
	Water Content (%)	Total Unit Weight (pcf)	Void Ratio	Saturation (%)	Height (in)	Diameter (in)	Specific Gravity	Liquid Limit (%)	Plastic Index (%)
Initial	39.2	114.8	1.081	99.7	1.00	2.416	(assumed)	-	-
Final	32.1	122	0.857	102.9	0.892		2.75	-	-



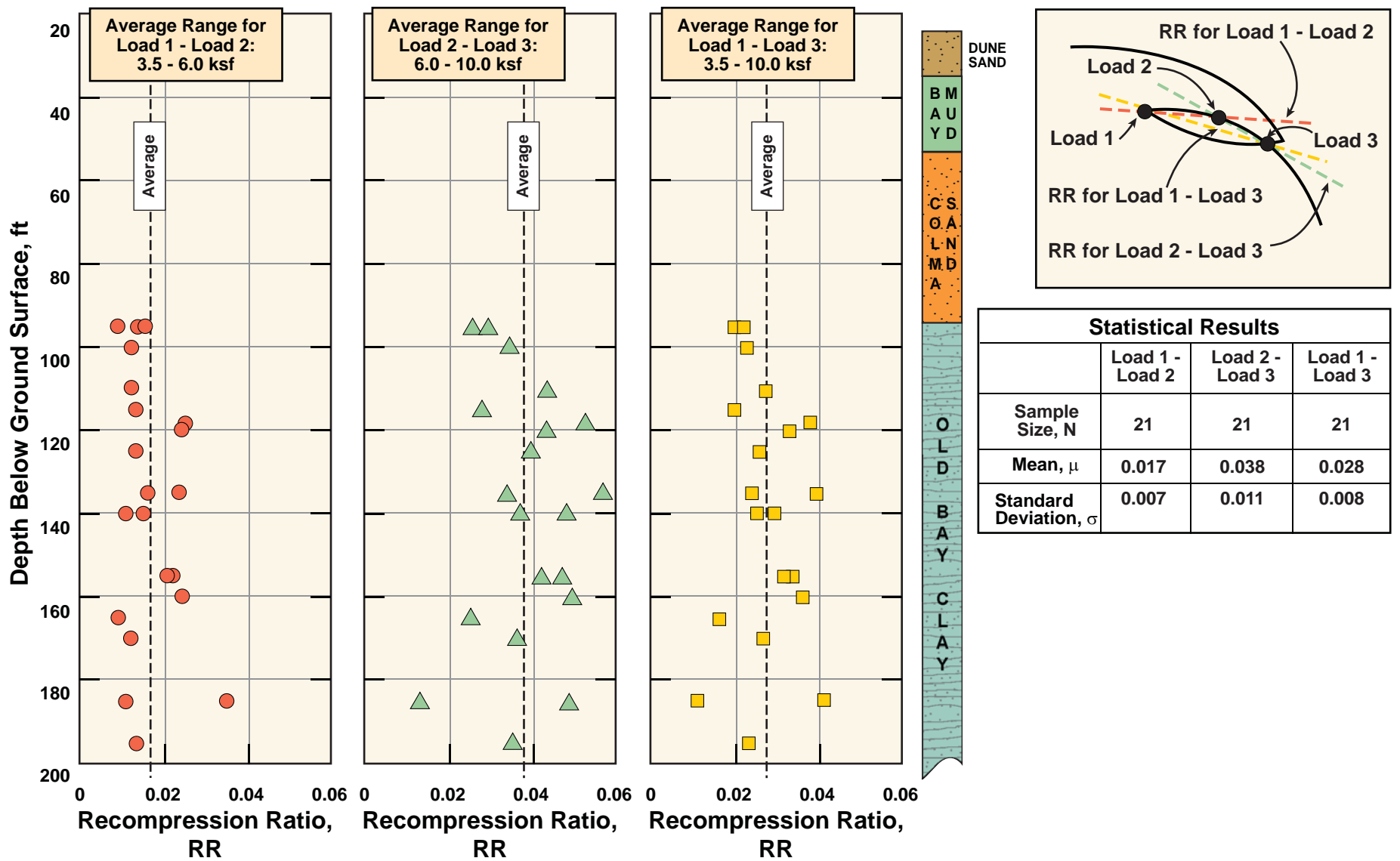
FIG_116: Estimation of Recompression Ratio from Consolidation Tests on Old Bay Clay

Depth (ft)	Initial Moisture Content (%)	Initial Total Unit Weight (pcf)	σ'_{vo} (ksf)	σ'_p (ksf)	RR _{Unload-Reload}		RR _{Initial Load}
					1 st Cycle	2 nd Cycle	
88	38.8	114.5	6.22	14.00	0.034	0.033	0.043

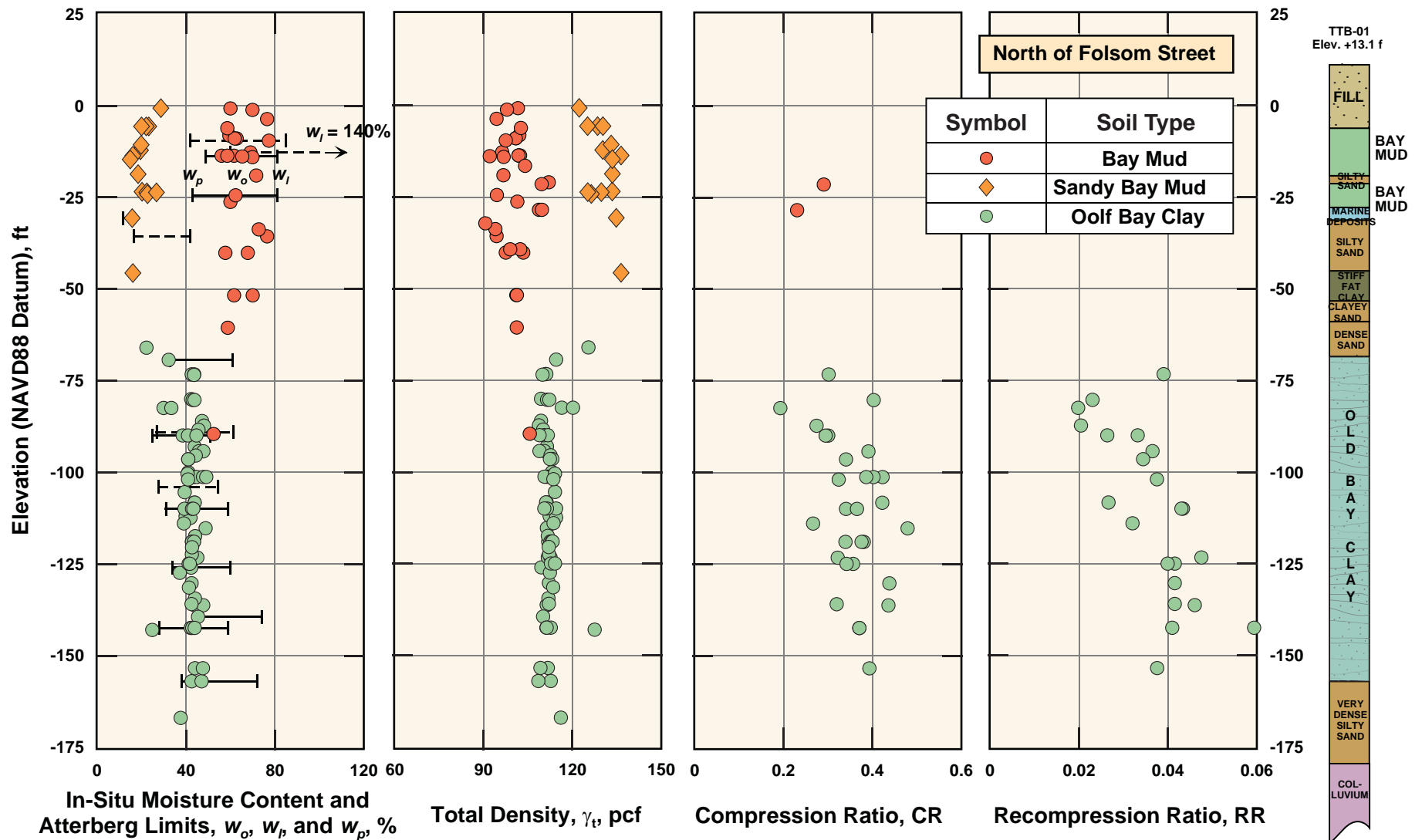
Depth (ft)	Initial Moisture Content (%)	Initial Total Unit Weight (pcf)	σ'_{vo} (ksf)	σ'_p (ksf)	RR _{Unload-Reload}		RR _{Initial Load}
					1 st Cycle	2 nd Cycle	
125	39.2	114.8	8.19	15.50	0.036	0.039	0.040



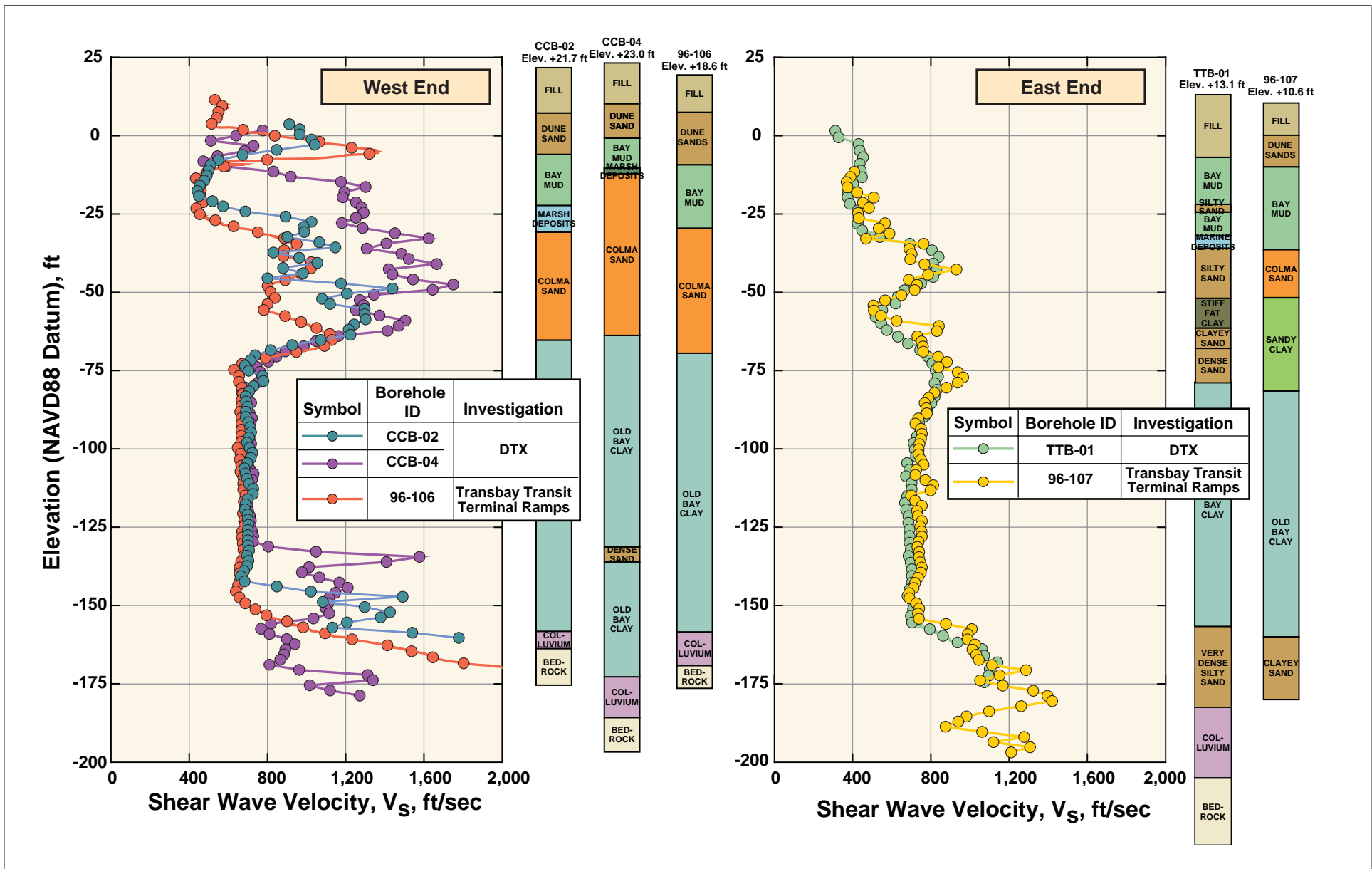
FIG_117: Typical Consolidation Curves with Repeated Unload - Reload Cycles



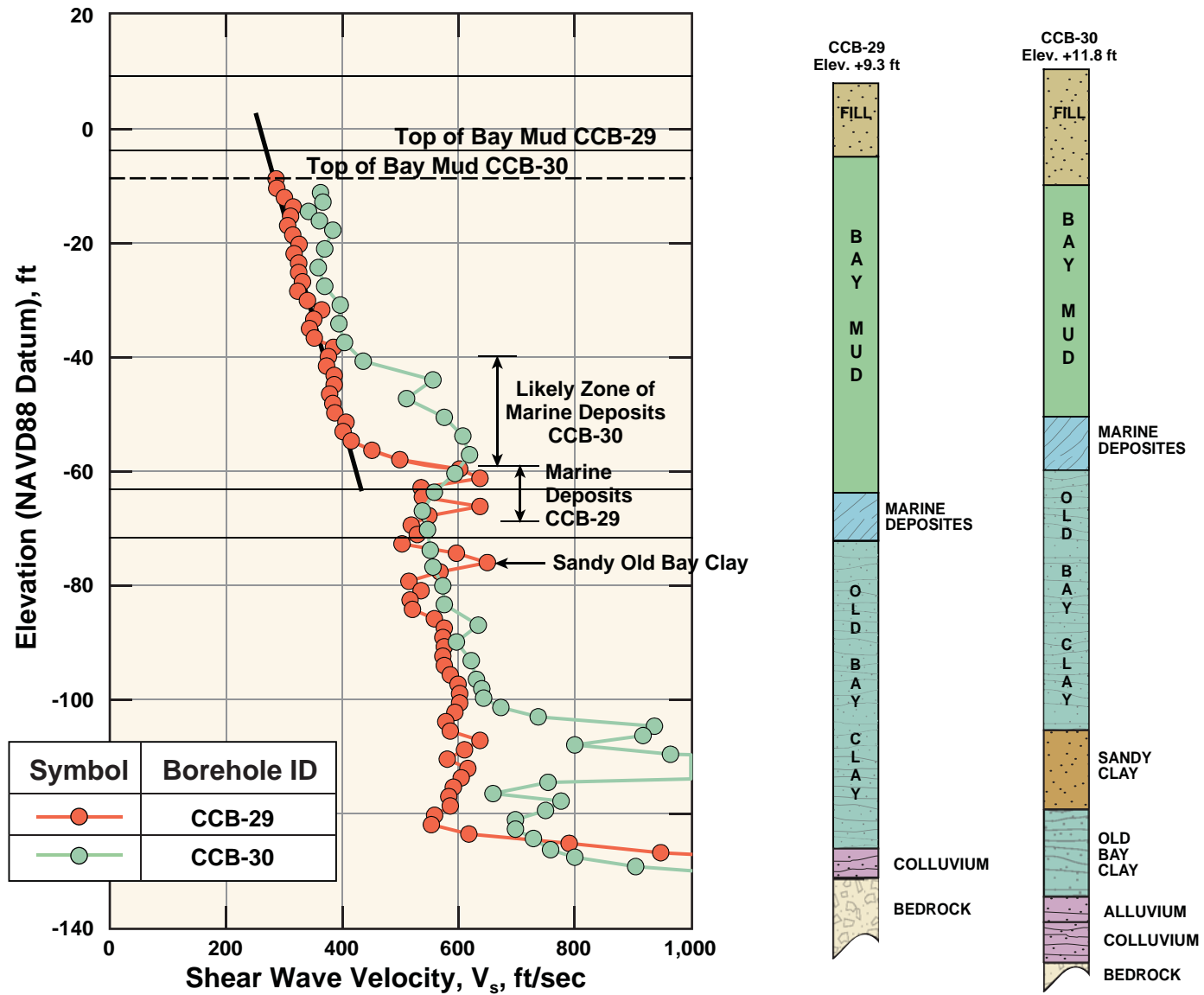
FIG_118: Variation of Recompression Ratios of the Old Bay Clay: Effects of Strain Softening During Reloading



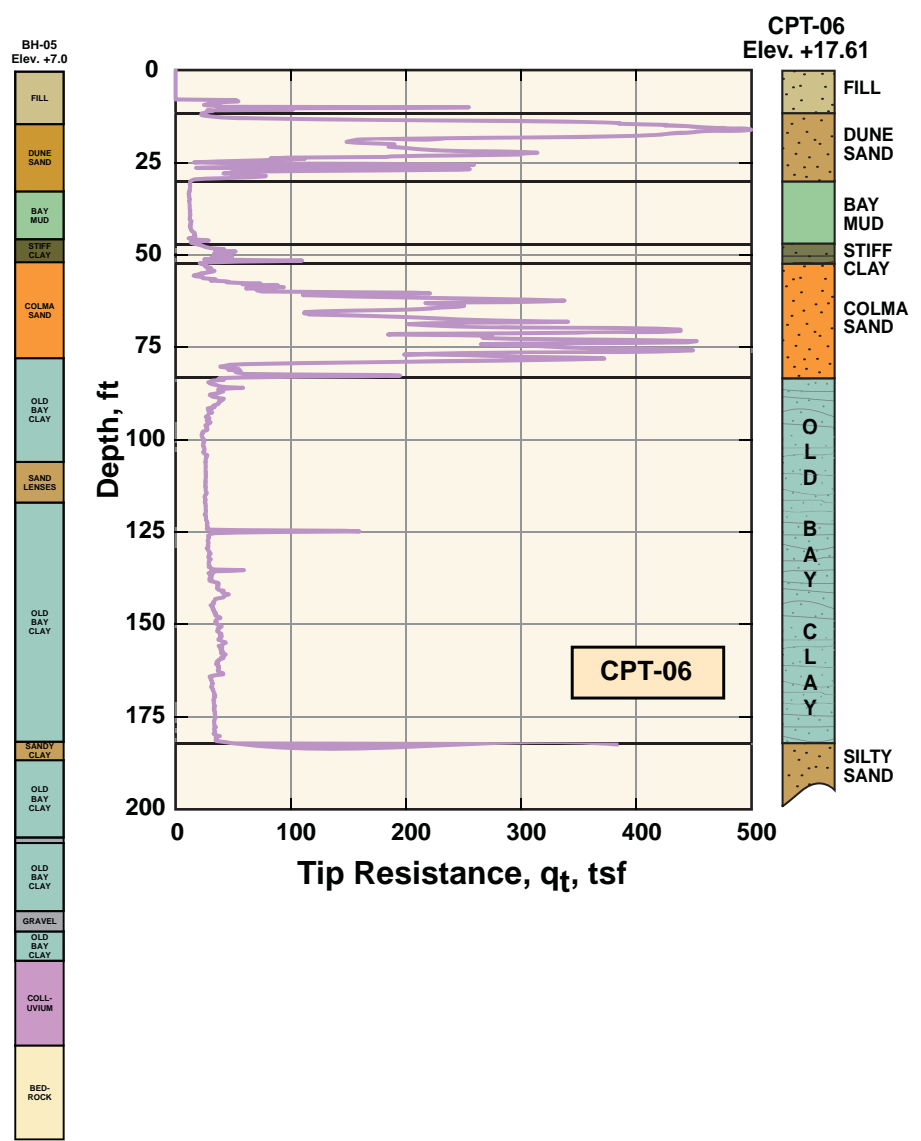
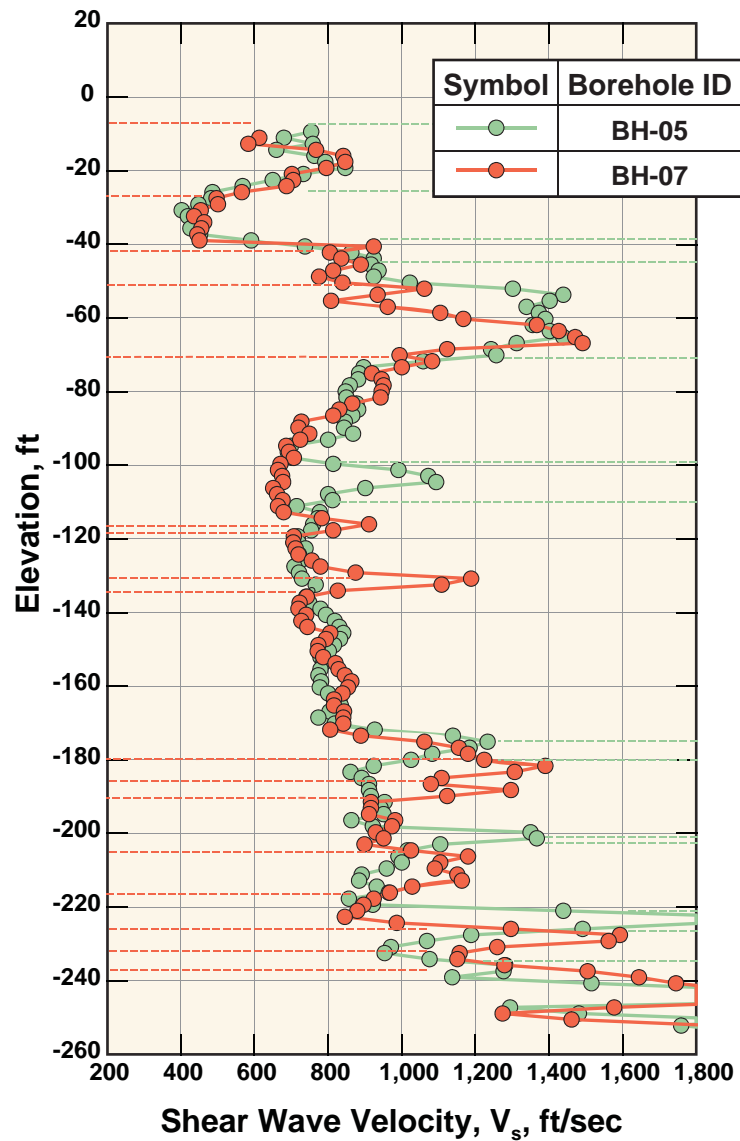
FIG_119: Index Properties and Compressibility Characteristics of Bay Mud and Old Bay Clay



FIG_120: Shear Wave Velocities of Old Bay Clay: Transbay Terminal and Vicinity



FIG_121: Shear Wave Velocities of Old Bay Clay: Mission Bay Site Along Townsend Street



FIG_122: Shear Wave Velocities and CPT Tests in Very Thick Old Bay Clay