

**Perdido Key, FL
Feasibility Study for Beach Restoration**

Sand Search Investigation

**Native Beach Surface Sediment Samples:
Grain Size Distribution Analyses**

January 2006

Prepared for:

Escambia County, FL
&
Florida Department of Environmental Protection
Bureau of Beaches and Coastal Systems

Prepared By:

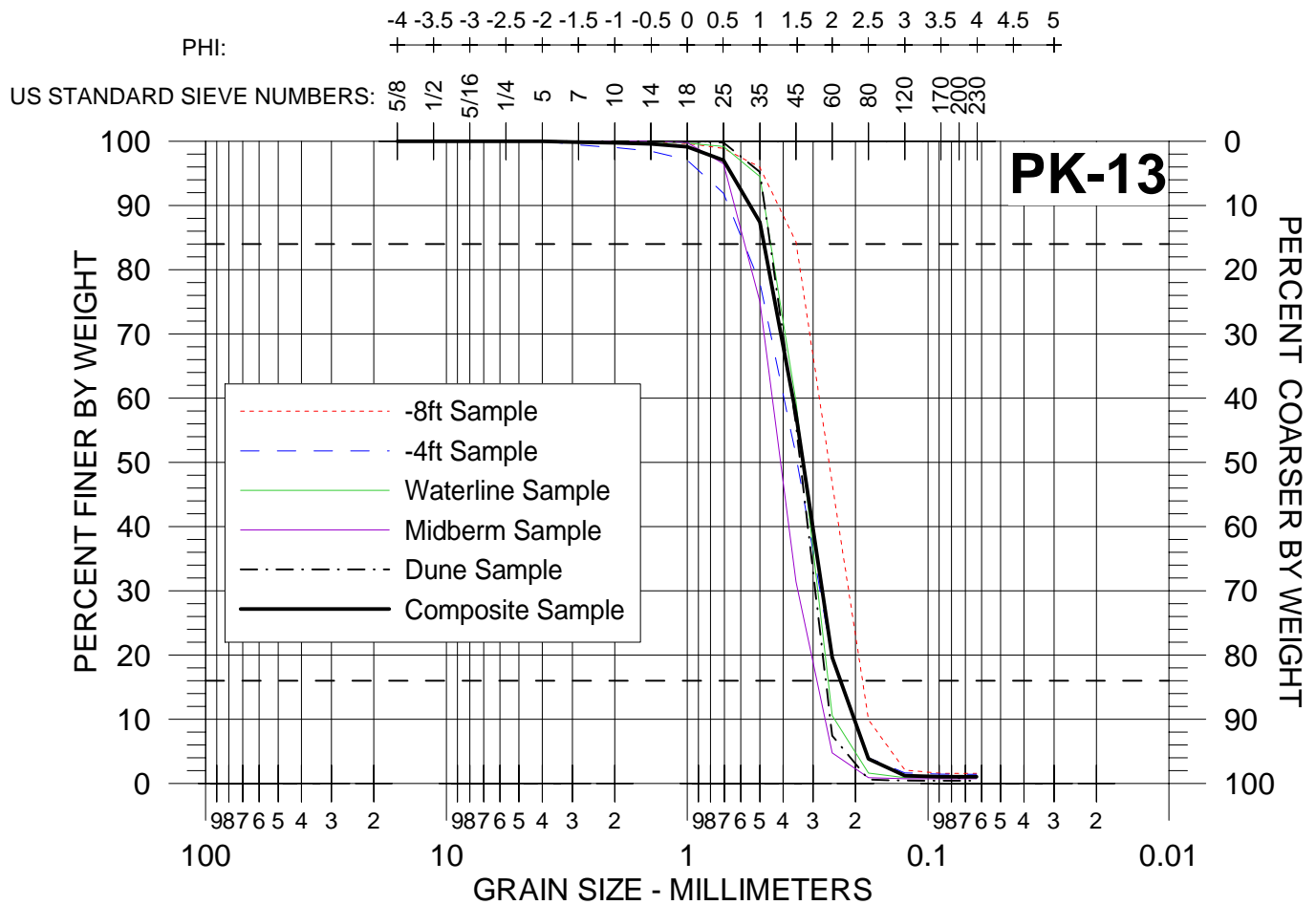
Olsen Associates, Inc.
4438 Herschel St.
Jacksonville, FL 32210
904-387-6114

Sediment Samples Collected By:

Olsen Associates, Inc.

Sample Analyses Prepared By:

Scientific Environmental Applications, Inc.
Melbourne, FL



COBBLE	PEBBLE	GRAVEL	SAND					SILT
			VERY CRS.	CRS.	MED.	FINE	V. FINE	

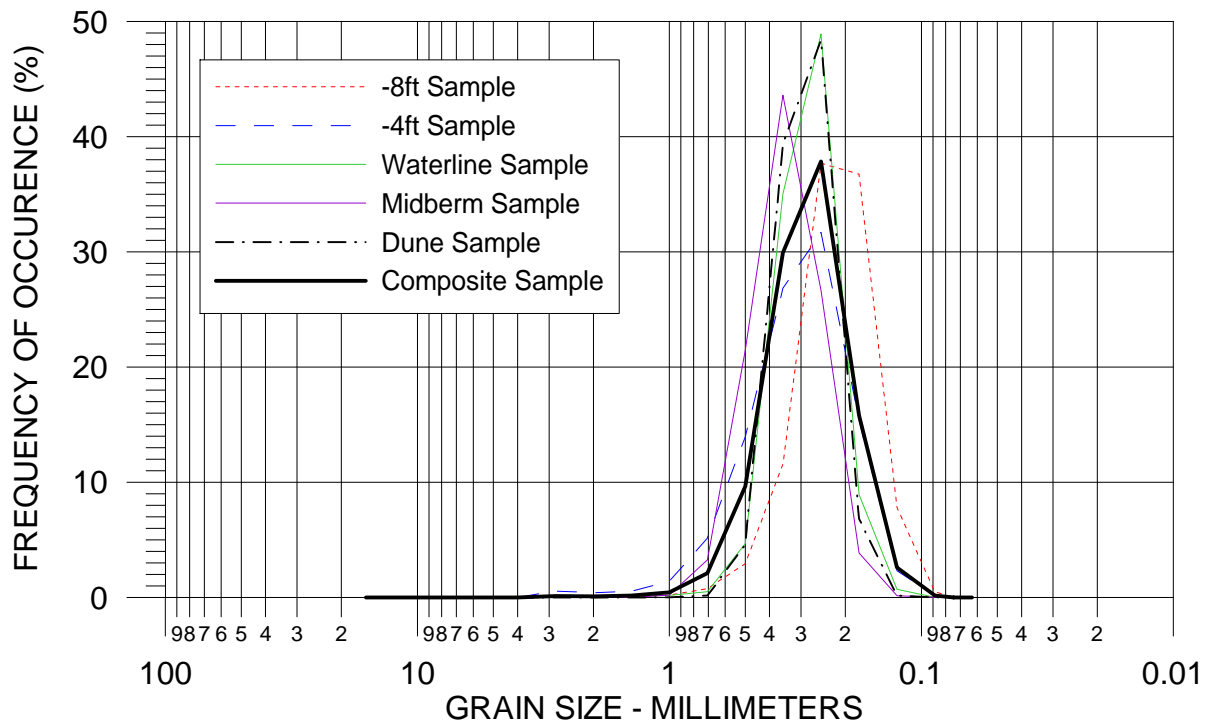
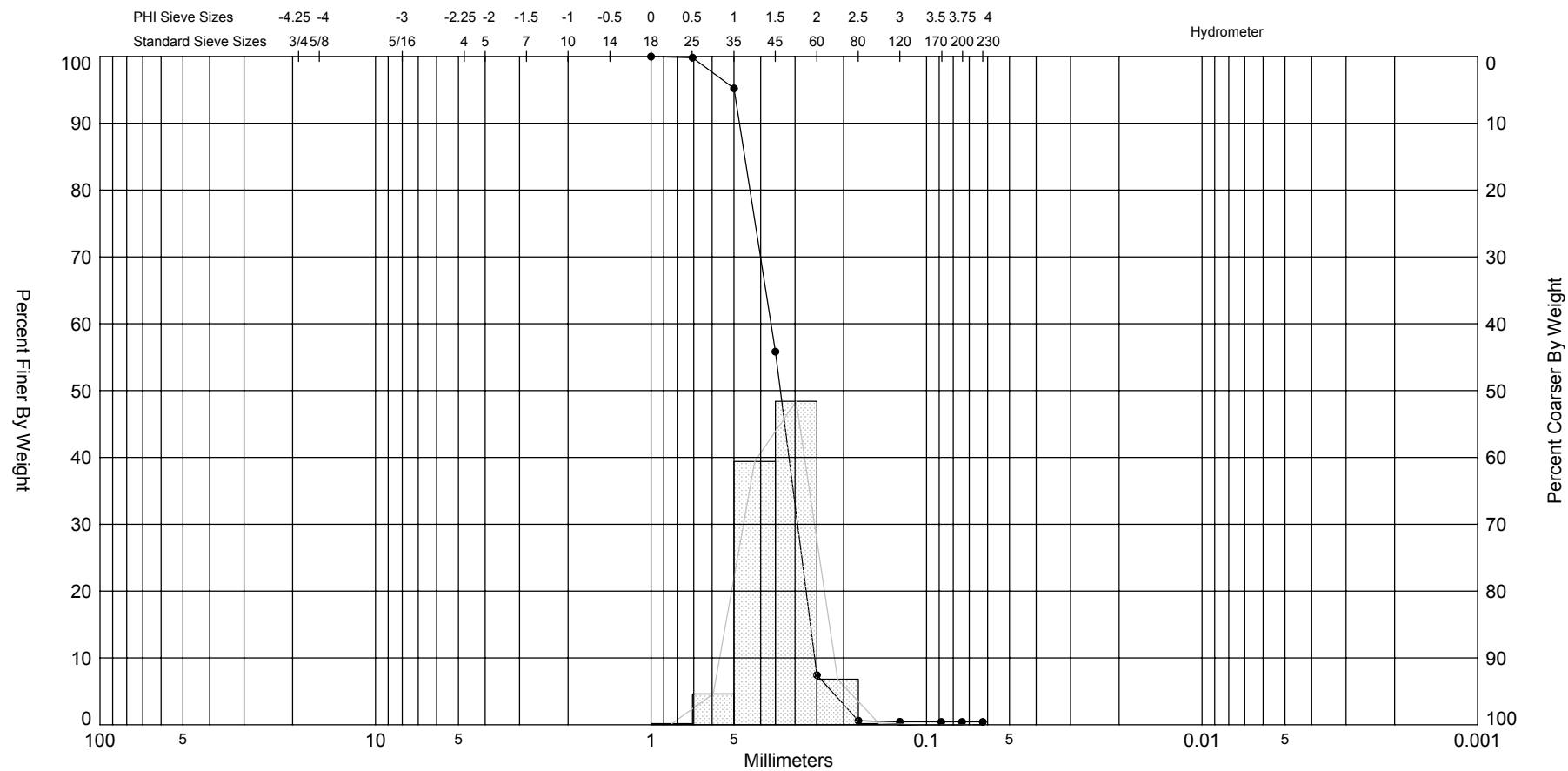



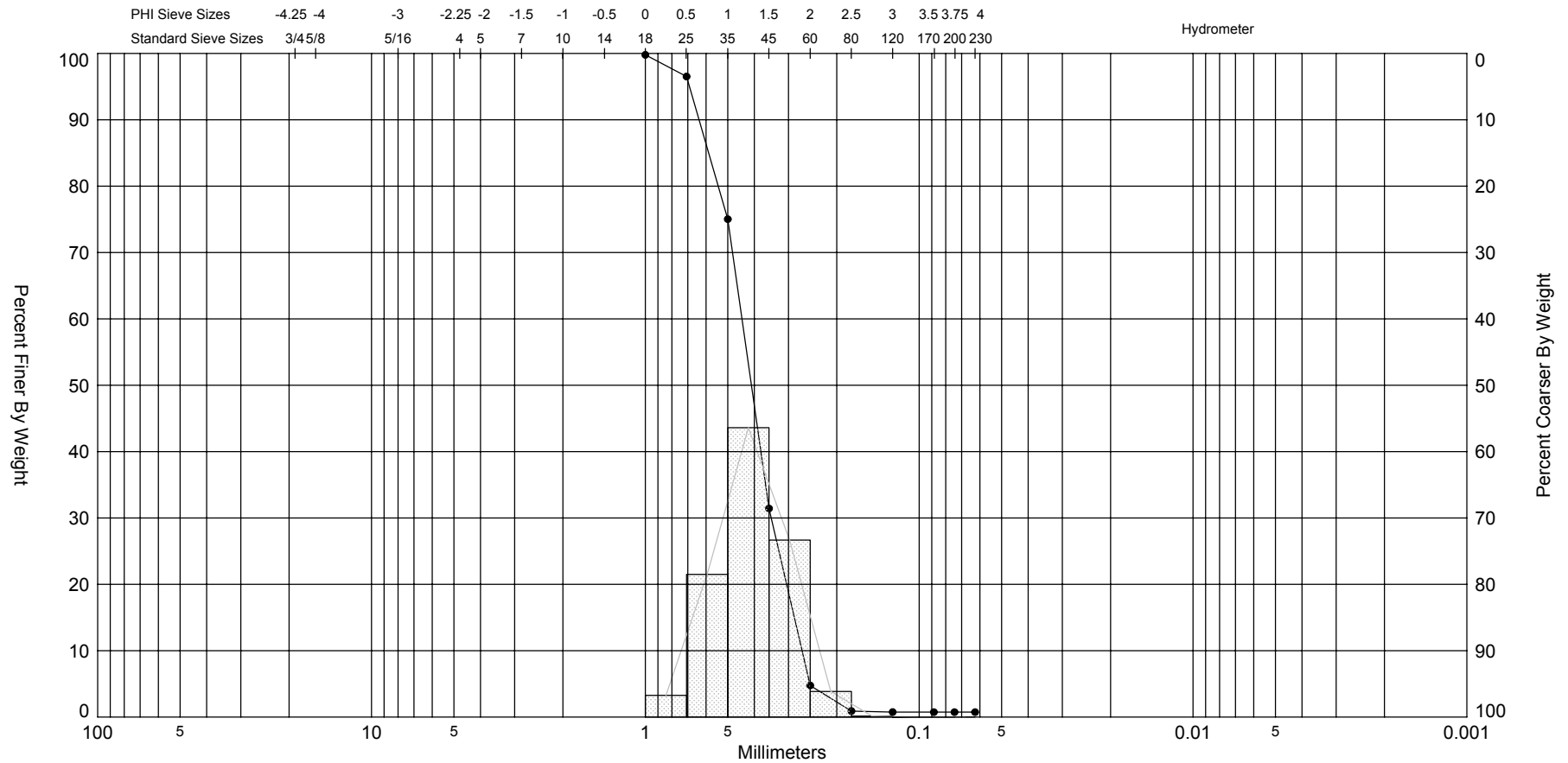
Figure A-3: Native beach grain size distribution for PK-13
Perdido Key, FL

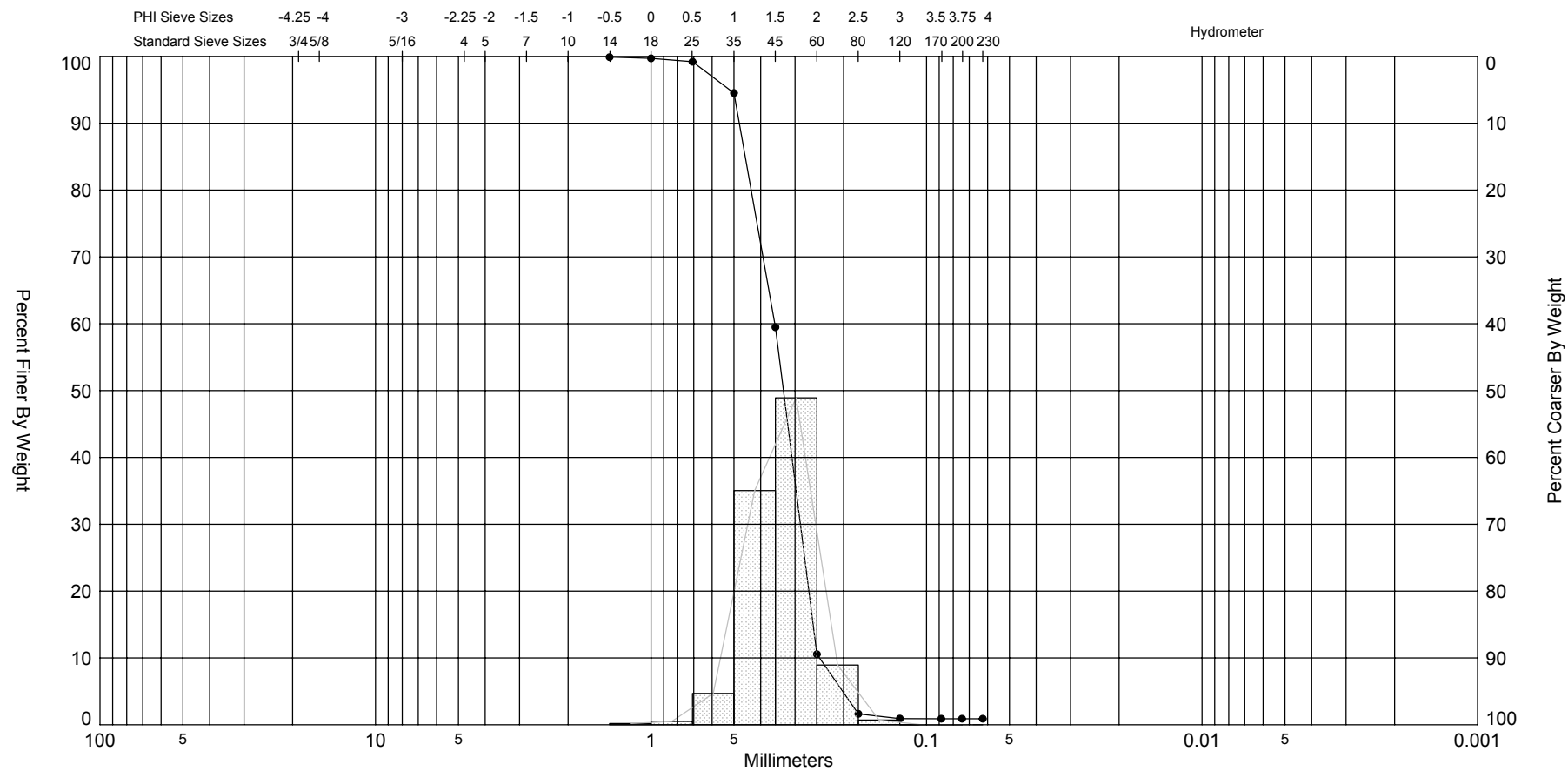


Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	


Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
ES R-013 dune			SP	#200 - 0.43 #230 - 0.43			1.56	1.54	-0.06	3.21	0.35	Project Name:	Perdido Key - Beach Feasibility Study
Comments:												Analysis Date:	11-15-05
Depths and elevations based on measured values												Analyzed By:	SEA Inc.
						Scientific Environmental Applications 5575 Willoughby Drive Melbourne, FL 32934 ph 321 254-2708 fax 321 254-2708						Easting (X, ft):	
												Northing (Y, ft):	
												Horizontal System:	
												Vertical System:	

SIEVE ANALYSIS OLSEN ES.GPJ FL DEP ROSS.GDT 11/28/05

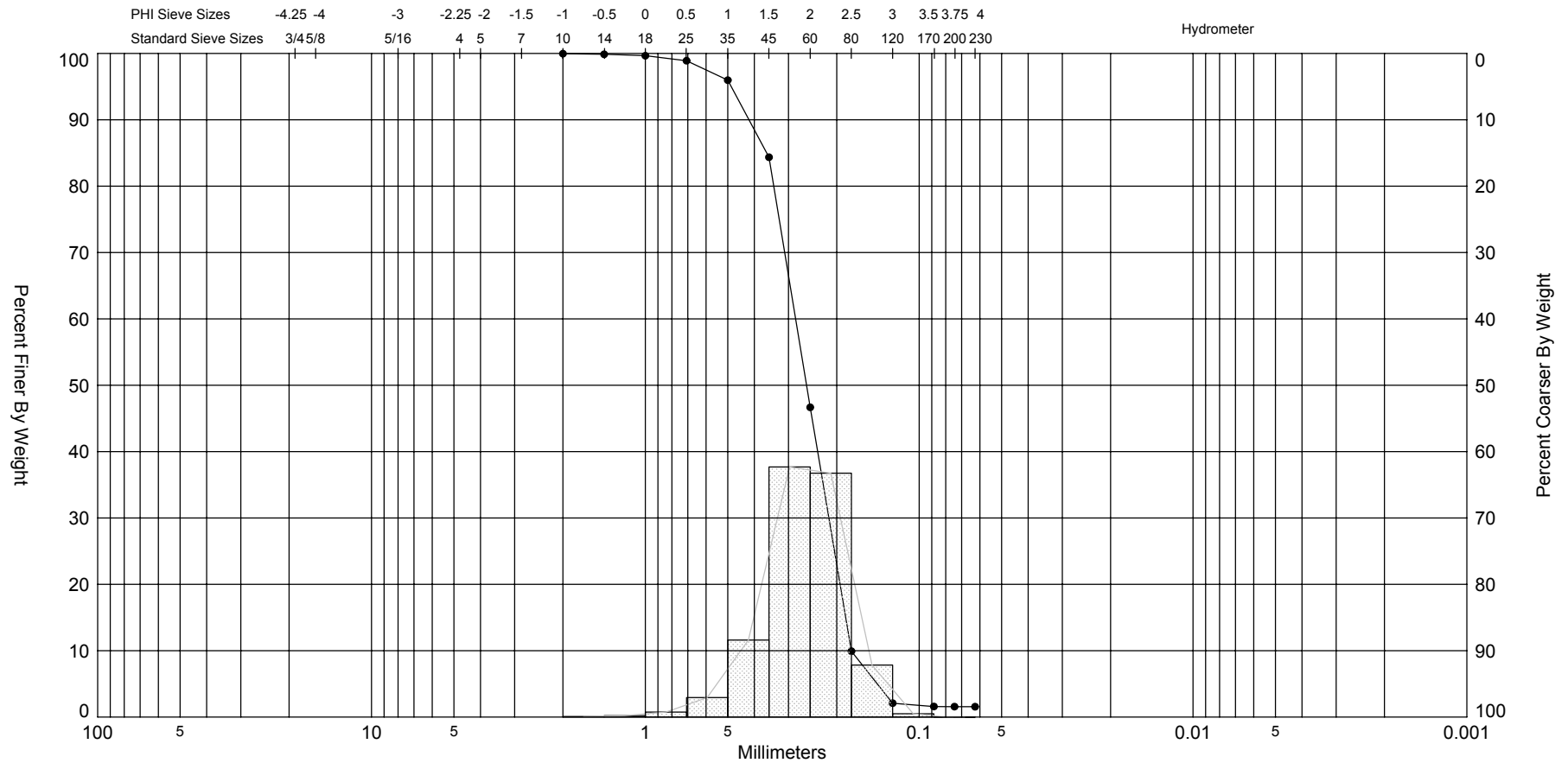




Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
ES R-013 waterline			SP	#200 - 0.90 #230 - 0.90		1.34	1.6	1.56	-0.24	4.2	0.39	Project Name:	Perdido Key - Beach Feasibility Study
Comments:												Analysis Date:	11-15-05
Depths and elevations based on measured values												Analyzed By:	SEA Inc.
						Scientific Environmental Applications 5575 Willoughby Drive Melbourne, FL 32934 ph 321 254-2708 fax 321 254-2708						Easting (X, ft):	
												Northing (Y, ft):	
												Horizontal System:	
												Vertical System:	

SIEVE ANALYSIS OLSEN ES.GPJ FL DEP ROSS.GDT 11/28/05



Gravel		Sand			Silt and Clay	
Coarse	Fine	Coarse	Medium	Fine		

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
ES R-013 -8	—●—		SP	#200 - 1.57 #230 - 1.56			1.96	1.92	-0.69	4.77	0.5	Project Name:	Perdido Key - Beach Feasibility Study
Comments:												Analysis Date:	11-15-05
Depths and elevations based on measured values												Analyzed By:	SEA Inc.
						Scientific Environmental Applications						Easting (X, ft):	
						5575 Willoughby Drive						Northing (Y, ft):	
						Melbourne, FL 32934						Horizontal System:	
						ph 321 254-2708						Vertical System:	
						fax 321 254-2708							