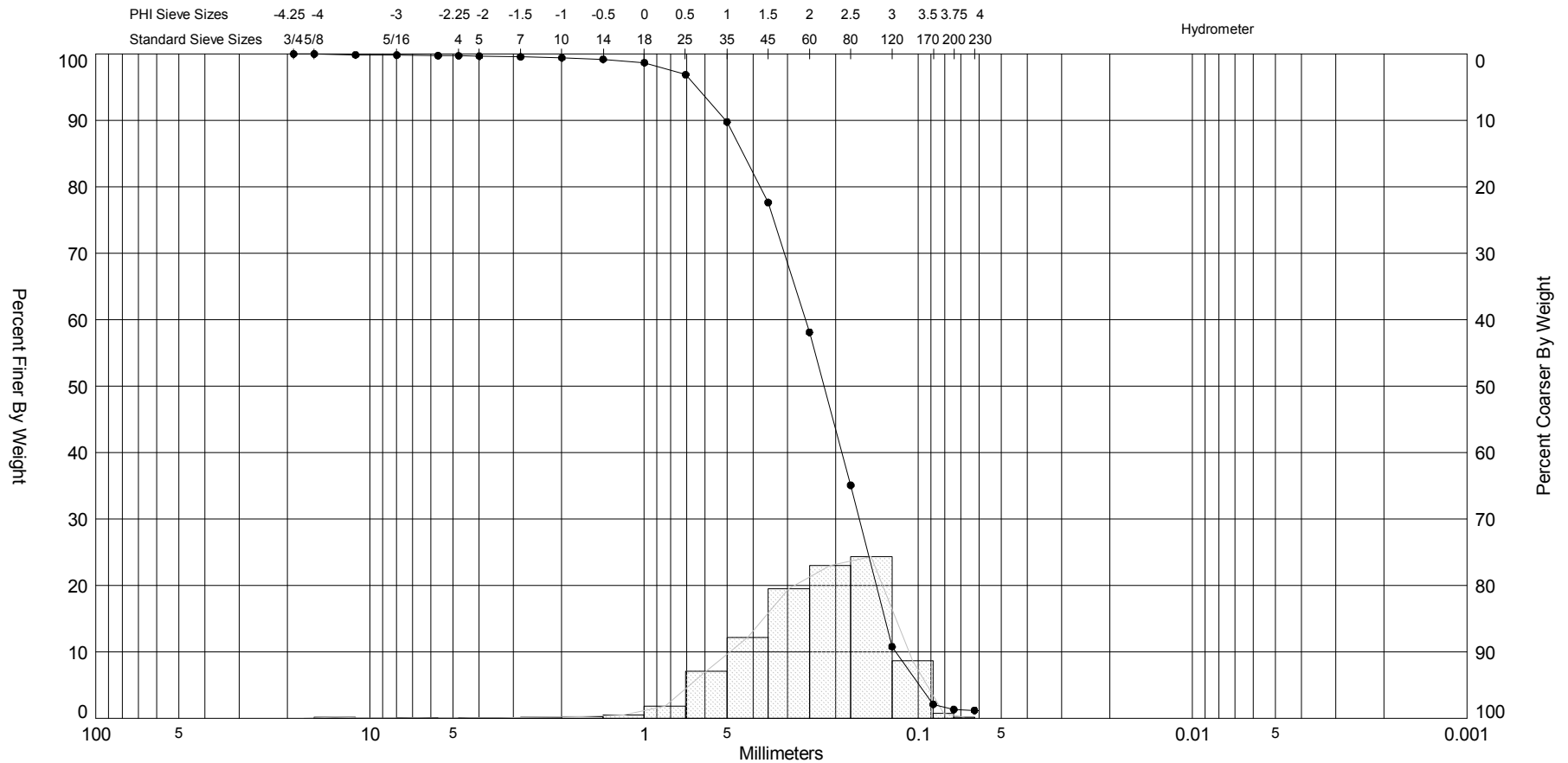



APPENDIX 6
BEACH COMPOSITE GRAIN SIZE DISTRIBUTION CURVES/HISTOGRAMS

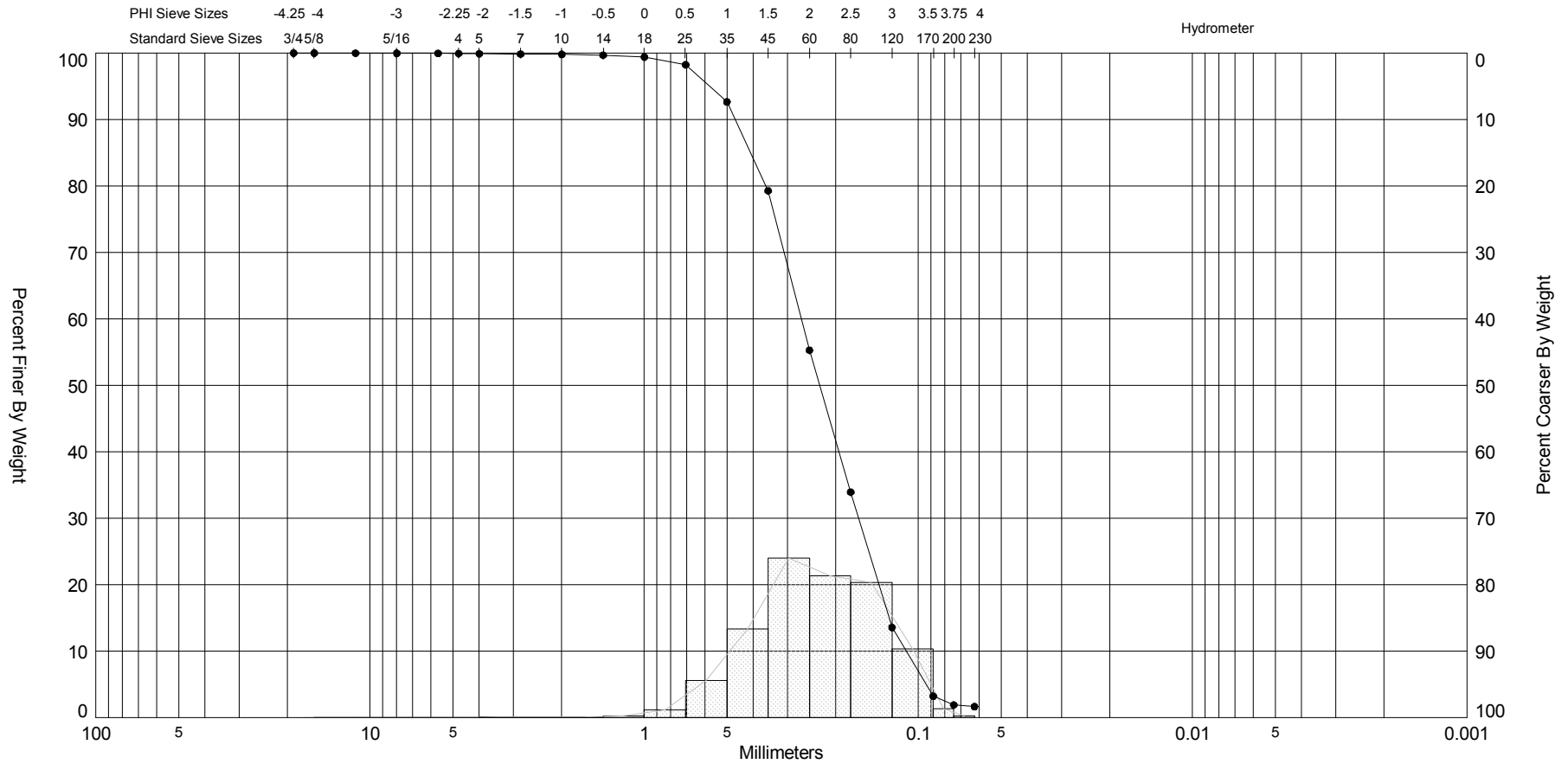
SIEVE ANALYSIS OIB_NATIVESS_APRIL2013_NAVD.GPJ_JPBRAZIL.GDT 3/19/14




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	
OIB000 COMPOSITE	—●—	0.0	SP	#200 - 1.34 #230 - 1.20			2.18	2.06	-1.26	7.64	0.85	Project Name:	Ocean Isle Beach Terminal Groin
Comments: Average wet Munsell Value is 5. Average dry Munsell Value is 7.												Analysis Date:	02-05-14
Depths and elevations based on measured values												Analyzed By:	TM
						Coastal Planning & Engineering A CB&I Company 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102						Easting (X, ft):	
												Northing (Y, ft):	
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

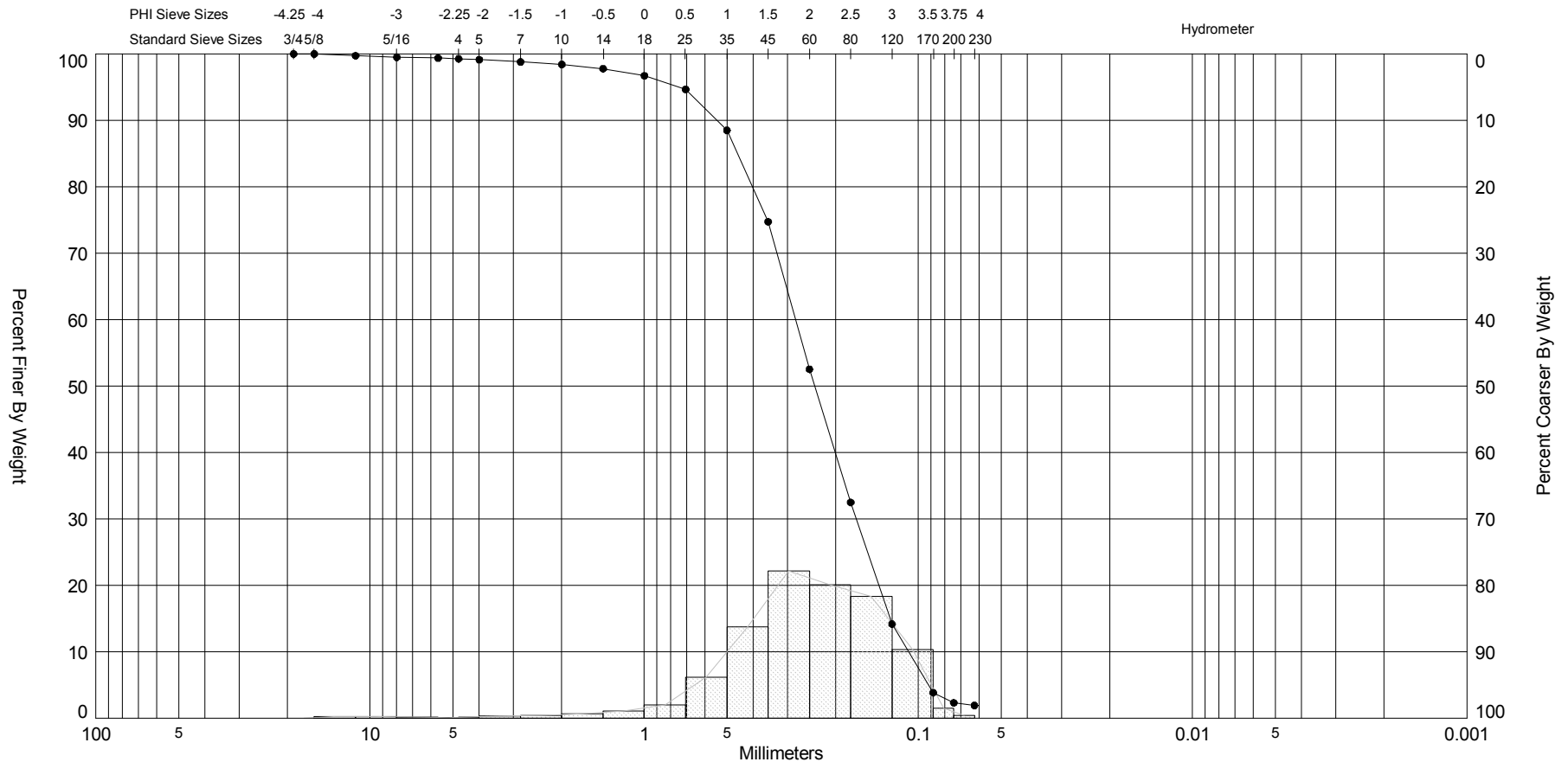
SIEVE ANALYSIS OIB_NATIVESS_APRIL2013_NAVD.GPJ_JPBRAZIL.GDT 3/19/14




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	
OIB010 COMPOSITE	—●—	0.0	SP	#200 - 1.90 #230 - 1.64			2.12	2.1	-0.53	4.48	0.78	Project Name:	Ocean Isle Beach Terminal Groin
Comments: Average wet Munsell Value is 5. Average dry Munsell Value is 7.												Analysis Date:	02-05-14
Depths and elevations based on measured values												Analyzed By:	TM
							Coastal Planning & Engineering A CB&I Company 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	
												Northing (Y, ft):	
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

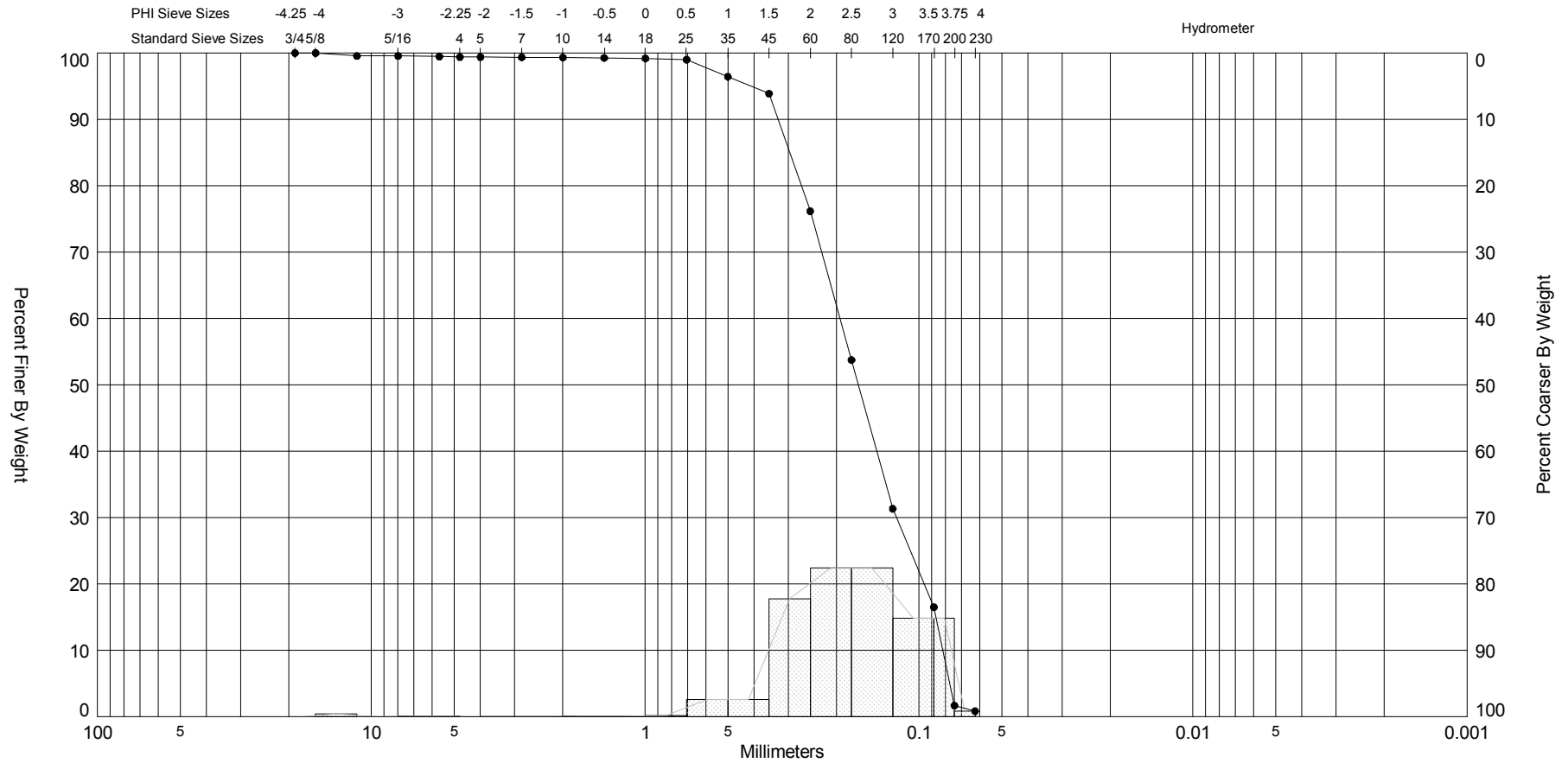
SIEVE ANALYSIS OIB_NATIVESS_APRIL2013_NAVD.GPJ_JPBRAZIL.GDT 3/19/14




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	
OIB025 COMPOSITE	—●—	0.0	SW	#200 - 2.31 #230 - 1.91			2.06	1.97	-1.54	8.39	1.01	Project Name:	Ocean Isle Beach Terminal Groin
Comments: Munsell Values not available.											Analysis Date:	02-05-14	
Depths and elevations based on measured values											Analyzed By:	TM	
							Coastal Planning & Engineering A CB&I Company 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	
												Northing (Y, ft):	
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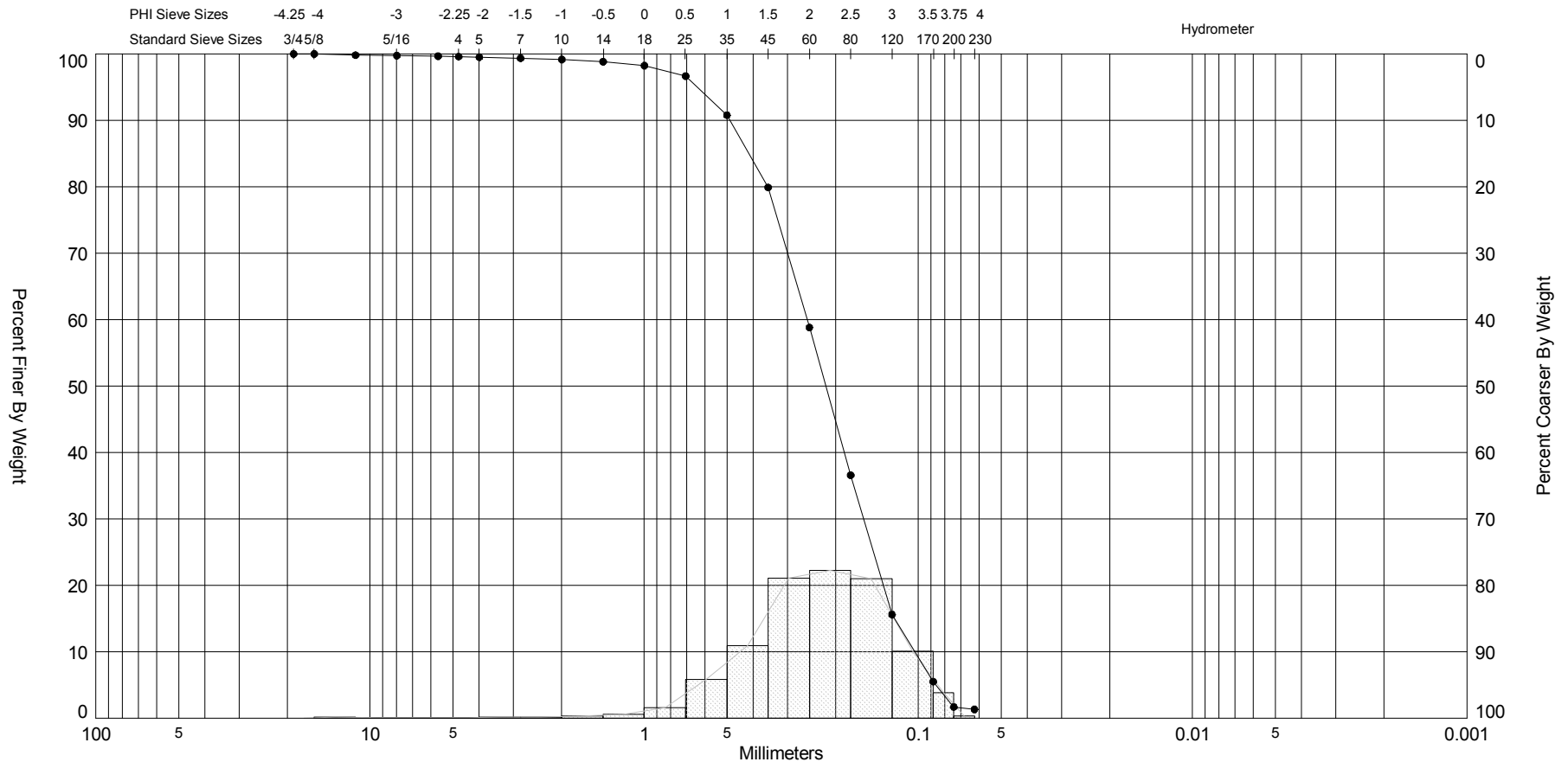
SIEVE ANALYSIS OIB_NATIVESS_APRIL2013_NAVD.GPJ_JPBRAZIL.GDT 3/19/14




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	
OIB040 COMPOSITE	—●—	-0.5	SW	#200 - 1.67 #230 - 0.84			2.58	2.53	-2.09	14.83	0.89	Project Name:	Ocean Isle Beach Terminal Groin
Comments:												Analysis Date:	03-18-14
Depths and elevations based on measured values												Analyzed By:	TM
							Coastal Planning & Engineering A CB&I Company 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	
												Northing (Y, ft):	
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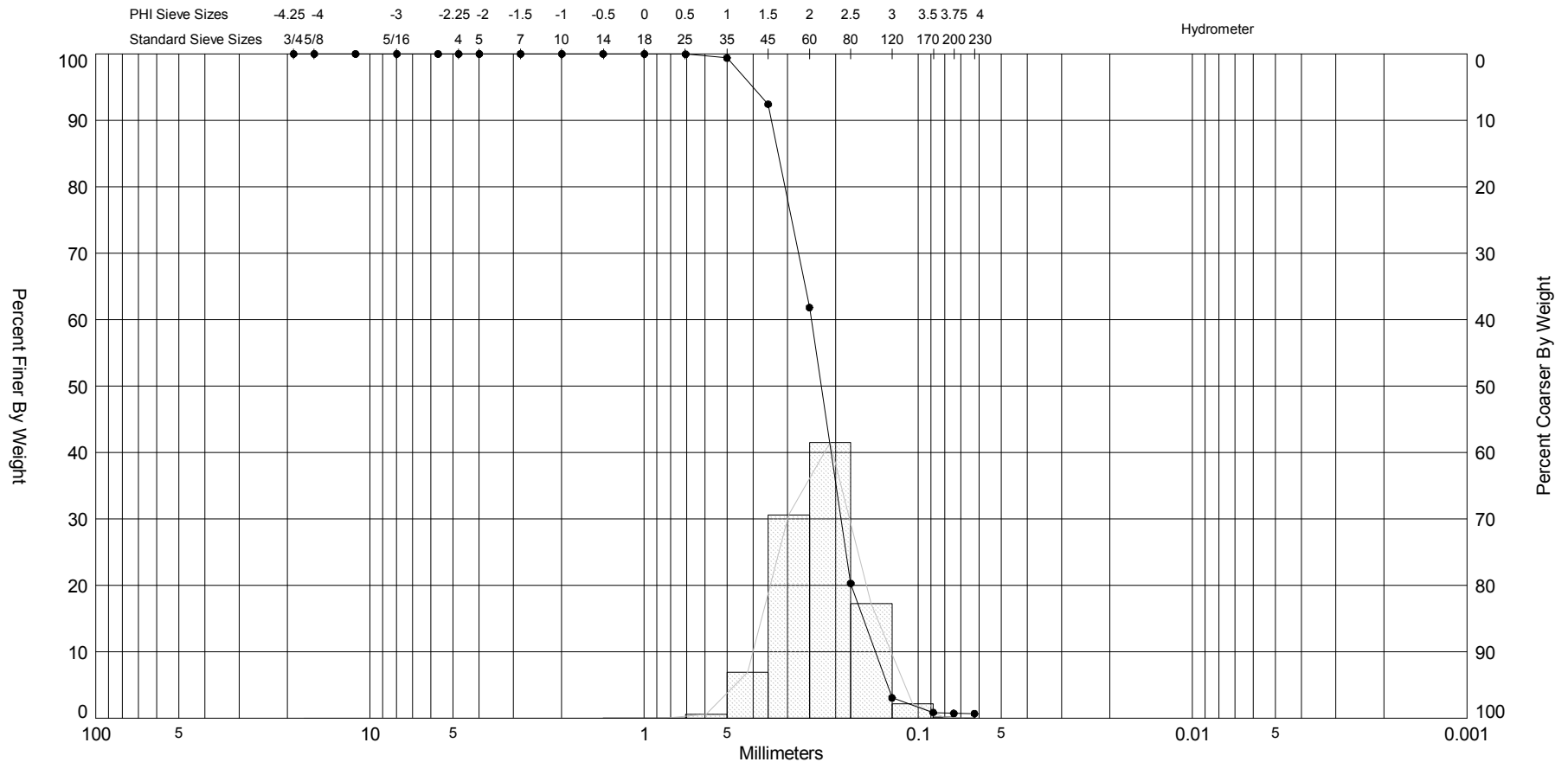
SIEVE ANALYSIS OIB_NATIVESS_APRIL2013_NAVD.GPJ_JPBRAZIL.GDT 3/19/14




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	
TOTAL BEACH COMP	—●—	0.0	SW	#200 - 1.70 #230 - 1.34			2.2	2.11	-1.32	8.16	0.92	Project Name:	Ocean Isle Beach Terminal Groin
Comments: Average wet Munsell Value is 5. Average dry Munsell Value is 7.												Analysis Date:	03-19-14
Depths and elevations based on measured values												Analyzed By:	TM
							Coastal Planning & Engineering A CB&I Company 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	
												Northing (Y, ft):	
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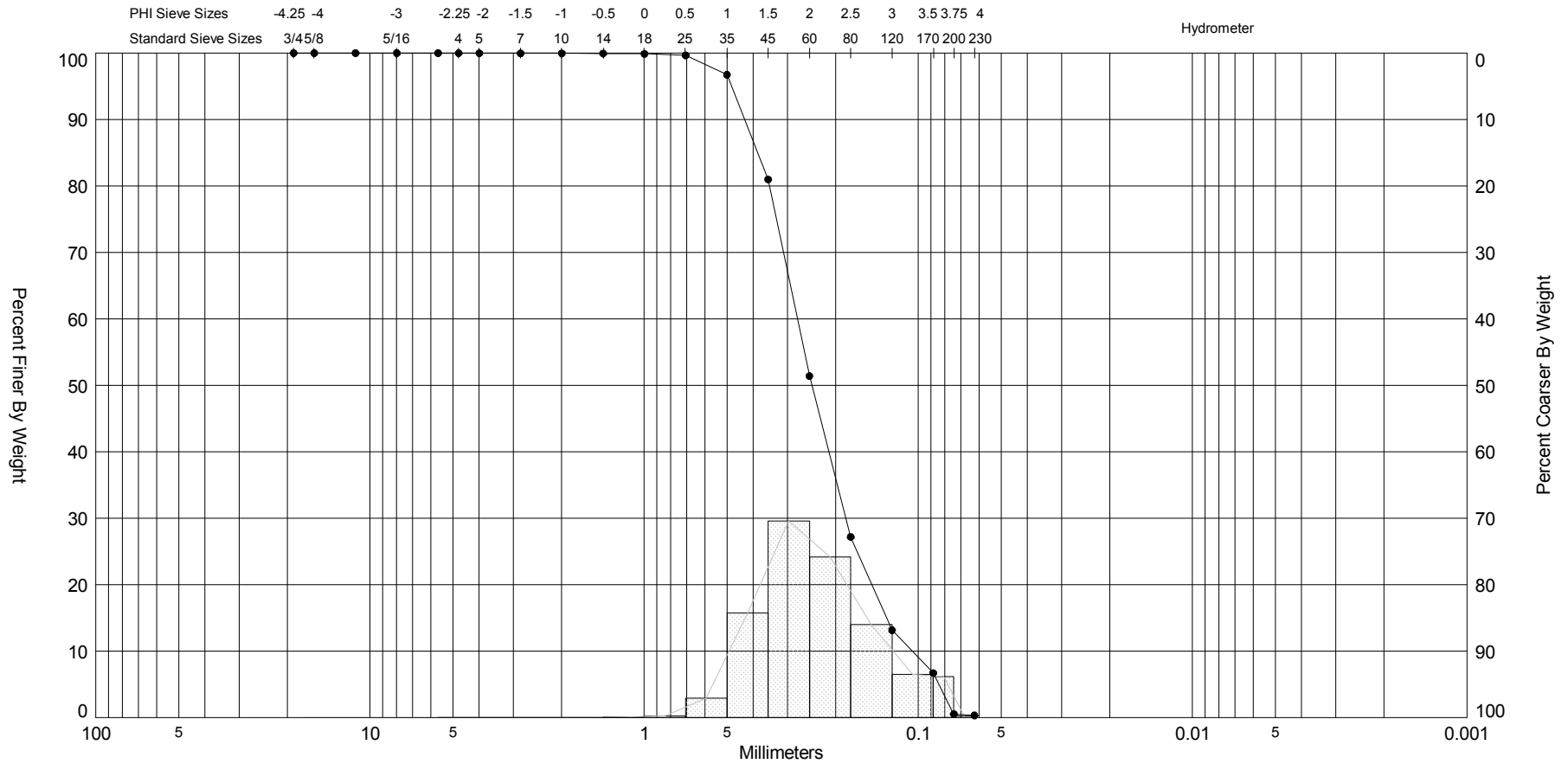
SIEVE ANALYSIS OIB_NATIVESS_APRIL2013_NAVD.GPJ_JPBRAZIL.GDT 3/19/14




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	
DUNE COMPOSITE	—●—	0.0	SP	#200 - 0.72 #230 - 0.69			2.14	2.13	-0.02	3.15	0.46	Project Name:	Ocean Isle Beach Terminal Groin
Comments: Average wet Munsell Value is 6. Average dry Munsell Value is 8.												Analysis Date:	03-19-14
Depths and elevations based on measured values												Analyzed By:	TM
							Coastal Planning & Engineering A CB&I Company 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	
												Northing (Y, ft):	
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

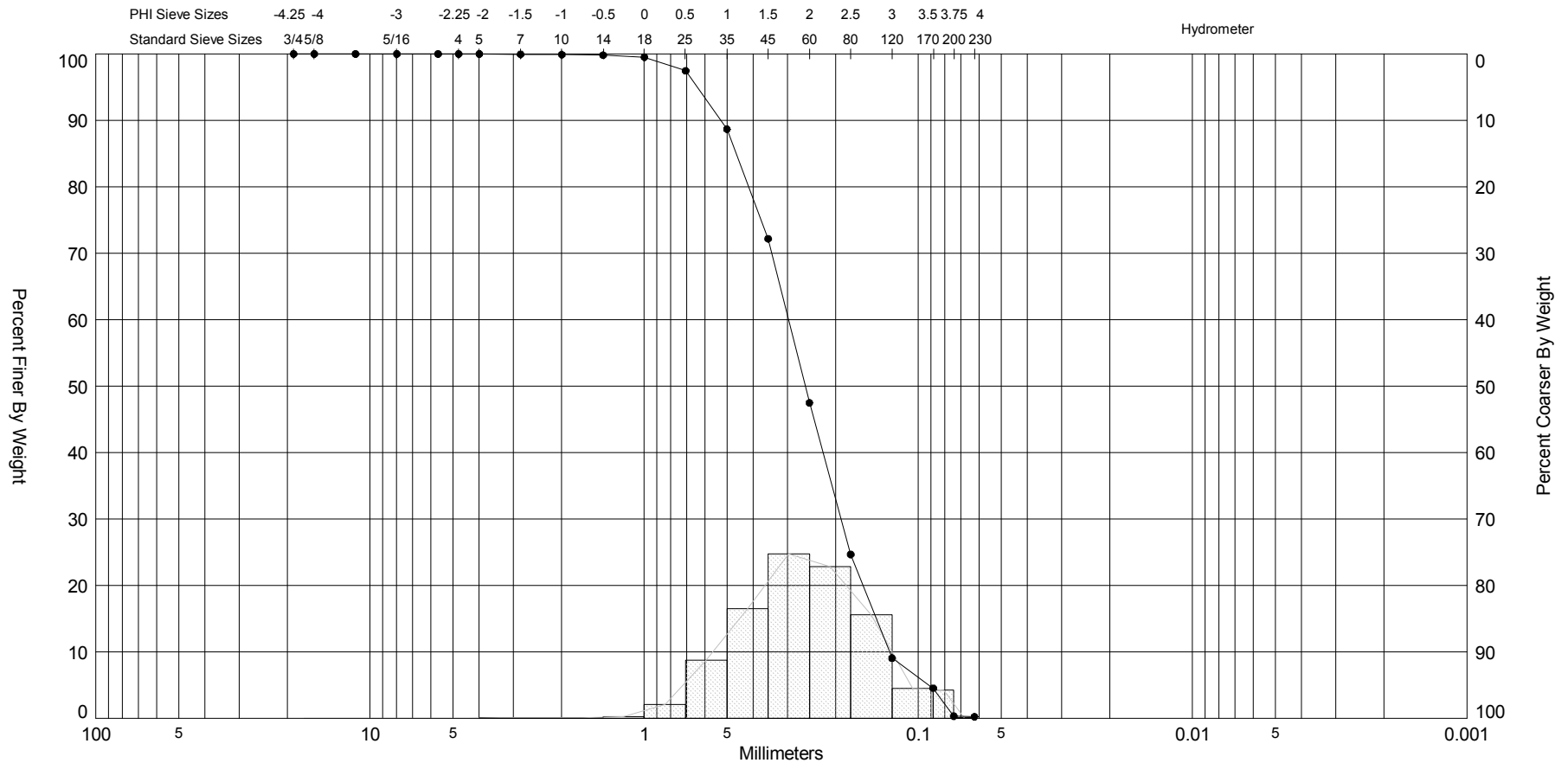
SIEVE ANALYSIS OIB_NATIVESS_APRIL2013_NAVD.GPJ_JPBRAZIL.GDT 3/19/14




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	
TOE OF DUNE COMP	—●—	0.0	SP	#200 - 0.54 #230 - 0.33			2.03	2.12	0.3	3.03	0.72	Project Name:	Ocean Isle Beach Terminal Groin
Comments: Average wet Munsell Value is 7. Average dry Munsell Value is 7.												Analysis Date:	07-12-13
Depths and elevations based on measured values												Analyzed By:	ATP
						Coastal Planning & Engineering A CB&I Company 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102						Easting (X, ft):	
												Northing (Y, ft):	
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

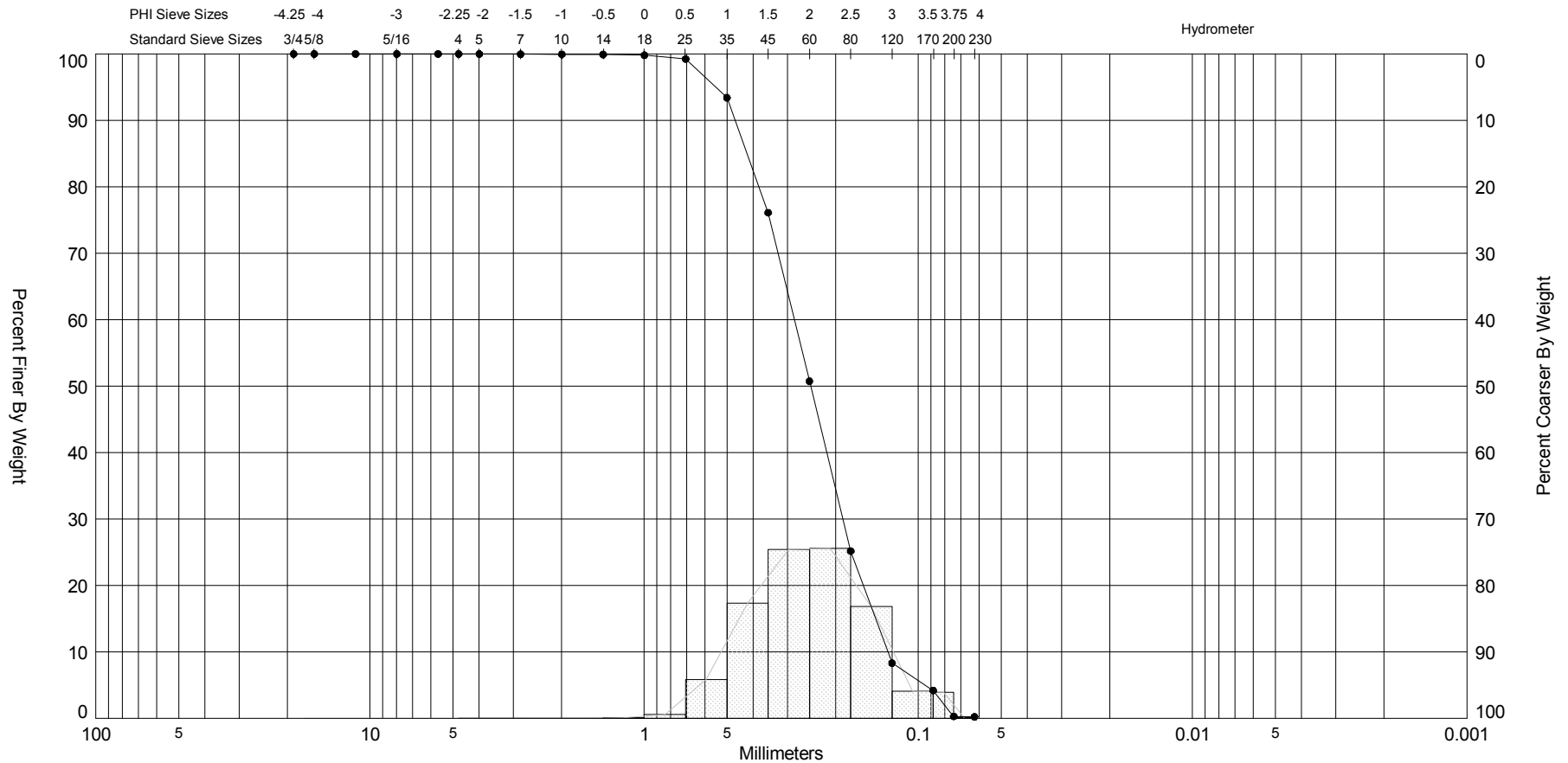
SIEVE ANALYSIS OIB_NATIVESS_APRIL2013_NAVD.GPJ_JPBRAZIL.GDT 3/19/14




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	
MID BERM COMP	—●—	0.0	SP	#200 - 0.33 #230 - 0.23			1.95	1.96	-0.05	3.03	0.79	Project Name:	Ocean Isle Beach Terminal Groin
Comments: Composite												Analysis Date:	07-12-13
Depths and elevations based on measured values												Analyzed By:	ATP
						Coastal Planning & Engineering A CB&I Company 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102						Easting (X, ft):	
												Northing (Y, ft):	
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

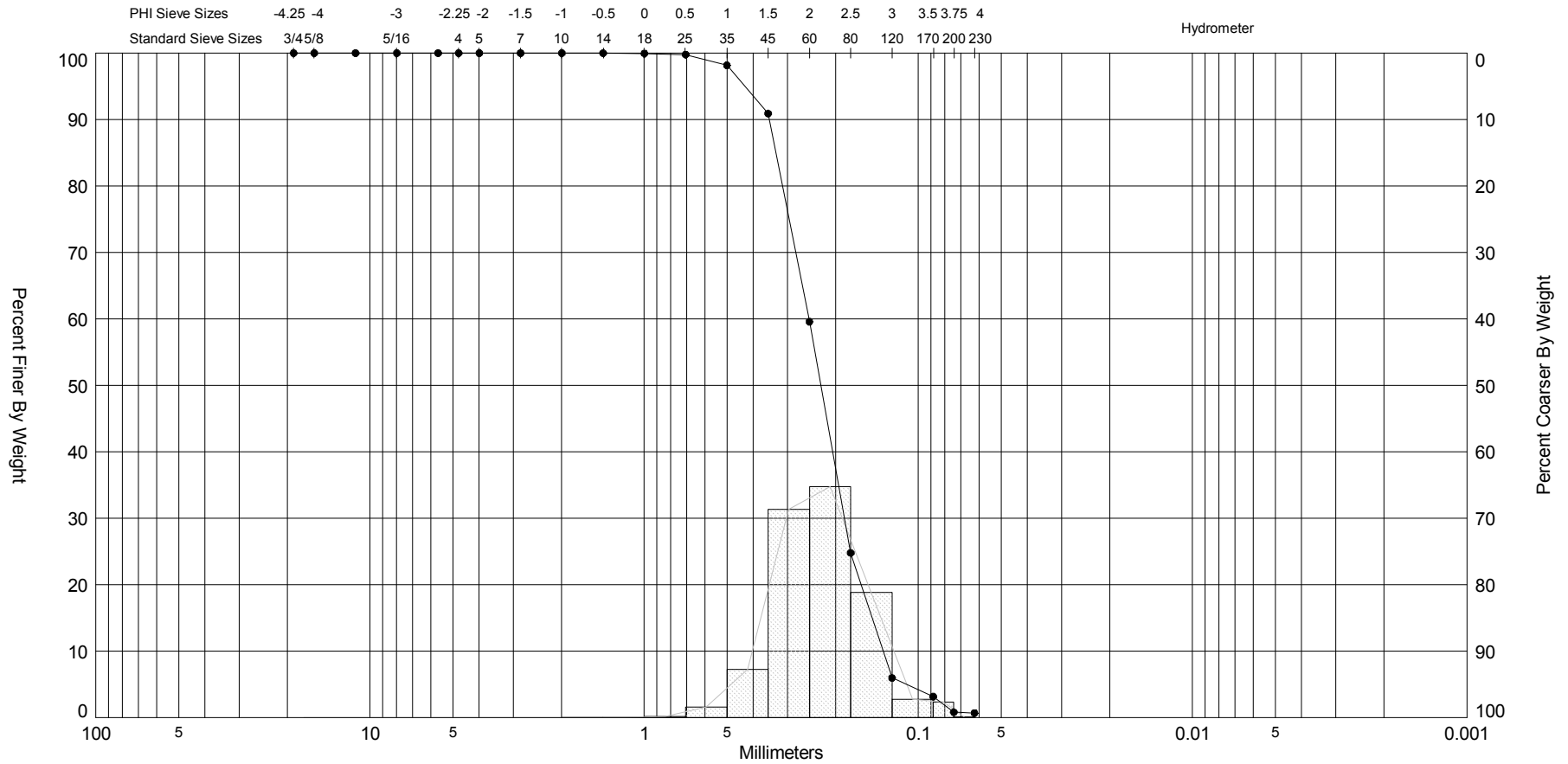
SIEVE ANALYSIS OIB_NATIVESS_APRIL2013_NAVD.GPJ_JPBRAZIL.GDT 3/19/14




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	
BERM CREST COMP	—●—	0.0	SP	#200 - 0.29 #230 - 0.22			2.01	2.03	0.06	3.08	0.72	Project Name:	Ocean Isle Beach Terminal Groin
Comments: Composite												Analysis Date:	07-12-13
Depths and elevations based on measured values												Analyzed By:	ATP
							Coastal Planning & Engineering A CB&I Company 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	
												Northing (Y, ft):	
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

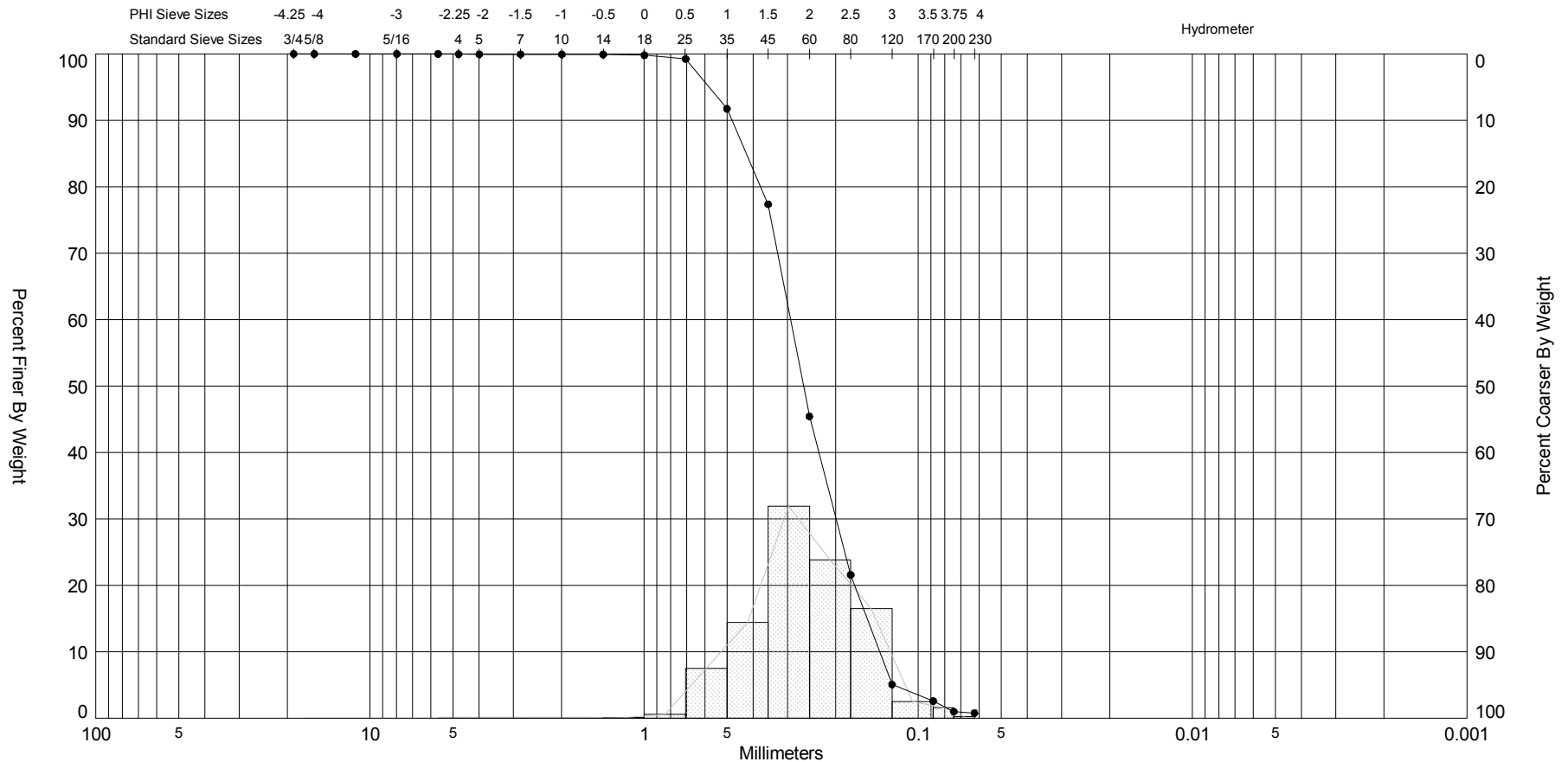
SIEVE ANALYSIS OIB_NATIVESS_APRIL2013_NAVD.GPJ_JPBRAZIL.GDT 3/19/14




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	
MHW COMPOSITE	—●—	1.8	SP	#200 - 0.81 #230 - 0.70			2.14	2.15	0.14	3.6	0.56	Project Name:	Ocean Isle Beach Terminal Groin
Comments: Average wet Munsell Value is 5. Average dry Munsell Value is 7.												Analysis Date:	02-05-14
Depths and elevations based on measured values												Analyzed By:	TM
							Coastal Planning & Engineering A CB&I Company 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	
												Northing (Y, ft):	
												Horizontal System:	NAD 1983
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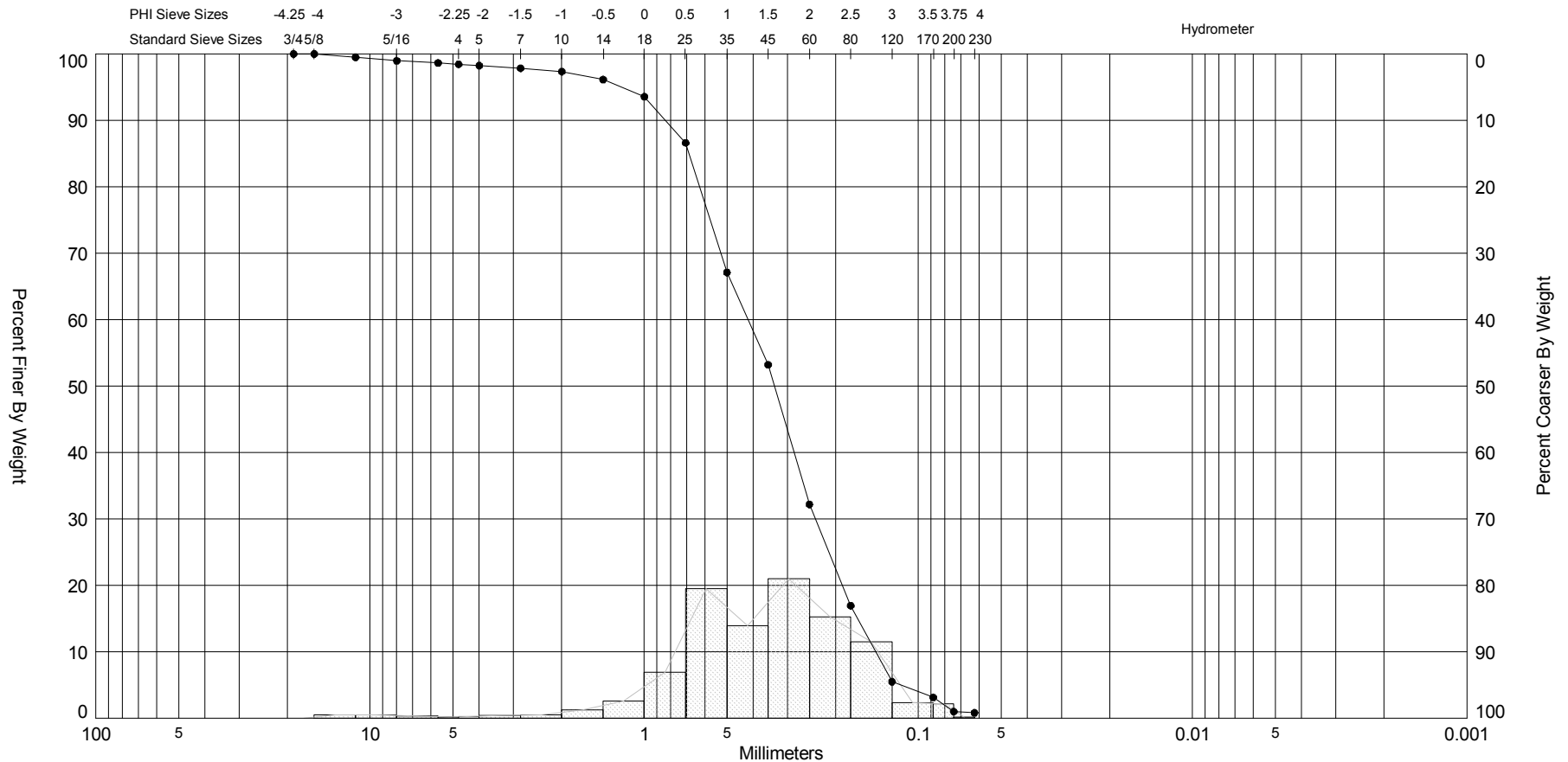
SIEVE ANALYSIS OIB_NATIVESS_APRIL2013_NAVD.GPJ_JPBRAZIL.GDT 3/19/14




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	
MTL COMPOSITE	—●—	-0.6	SP	#200 - 0.99 #230 - 0.78			1.93	1.95	-0.1	3.76	0.67	Project Name:	Ocean Isle Beach Terminal Groin
Comments: Average wet Munsell Value is 5. Average dry Munsell Value is 7.												Analysis Date:	02-05-14
Depths and elevations based on measured values												Analyzed By:	TM
						Coastal Planning & Engineering A CB&I Company 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102						Easting (X, ft):	
												Northing (Y, ft):	
												Horizontal System:	NAD 1983
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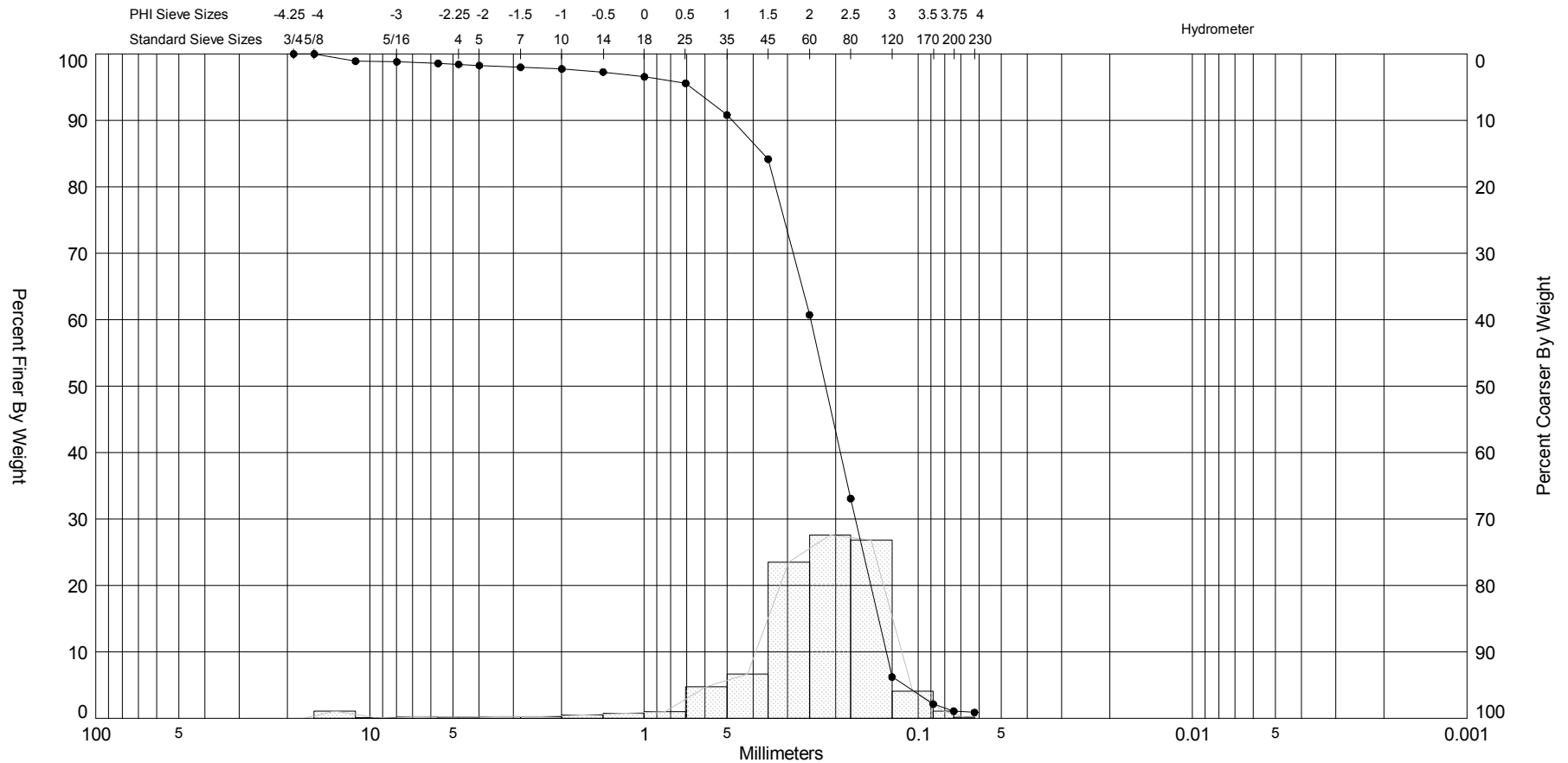
SIEVE ANALYSIS OIB_NATIVESS_APRIL2013_NAVD.GPJ_JPBRAZIL.GDT 3/19/14




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	
MLW COMPOSITE	—●—	-2.9	SW	#200 - 0.99 #230 - 0.80			1.58	1.45	-1.15	6.48	1.13	Project Name:	Ocean Isle Beach Terminal Groin
Comments: Average wet Munsell Value is 5. Average dry Munsell Value is 7.												Analysis Date:	02-05-14
Depths and elevations based on measured values												Analyzed By:	TM
						Coastal Planning & Engineering A CB&I Company 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102						Easting (X, ft):	
												Northing (Y, ft):	
												Horizontal System:	NAD 1983
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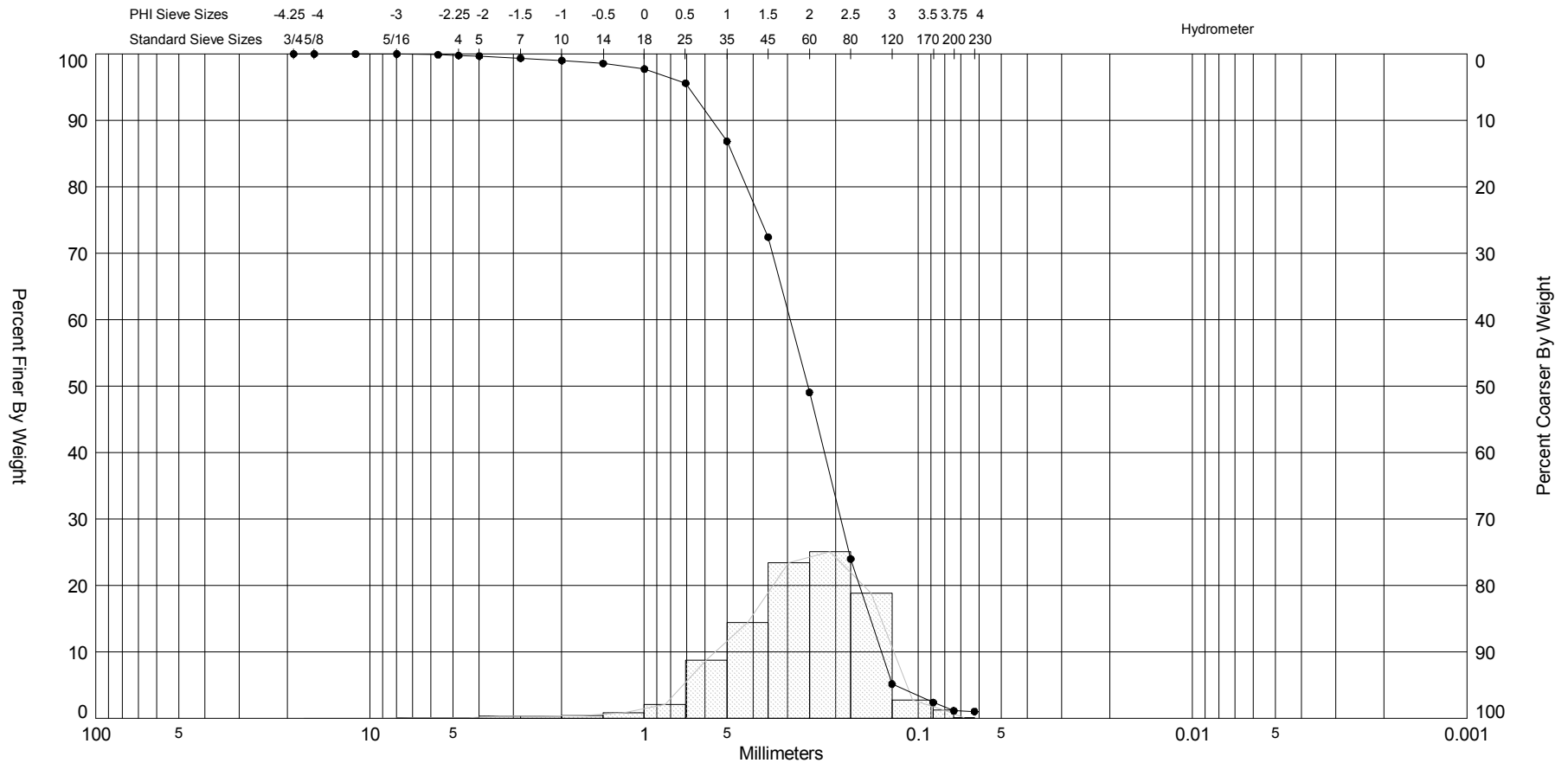
SIEVE ANALYSIS OIB_NATIVESS_APRIL2013_NAVD.GPJ_JPBRAZIL.GDT 3/19/14




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	
TROUGH COMP	—●—	-5.0	SW	#200 - 1.08 #230 - 0.88			2.19	2.02	-2.83	14.97	1.03	Project Name:	Ocean Isle Beach Terminal Groin
Comments: Average wet Munsell Value is 5. Average dry Munsell Value is 7.											Analysis Date:	02-05-14	
Depths and elevations based on measured values											Analyzed By:	TM	
							Coastal Planning & Engineering A CB&I Company 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	
												Northing (Y, ft):	
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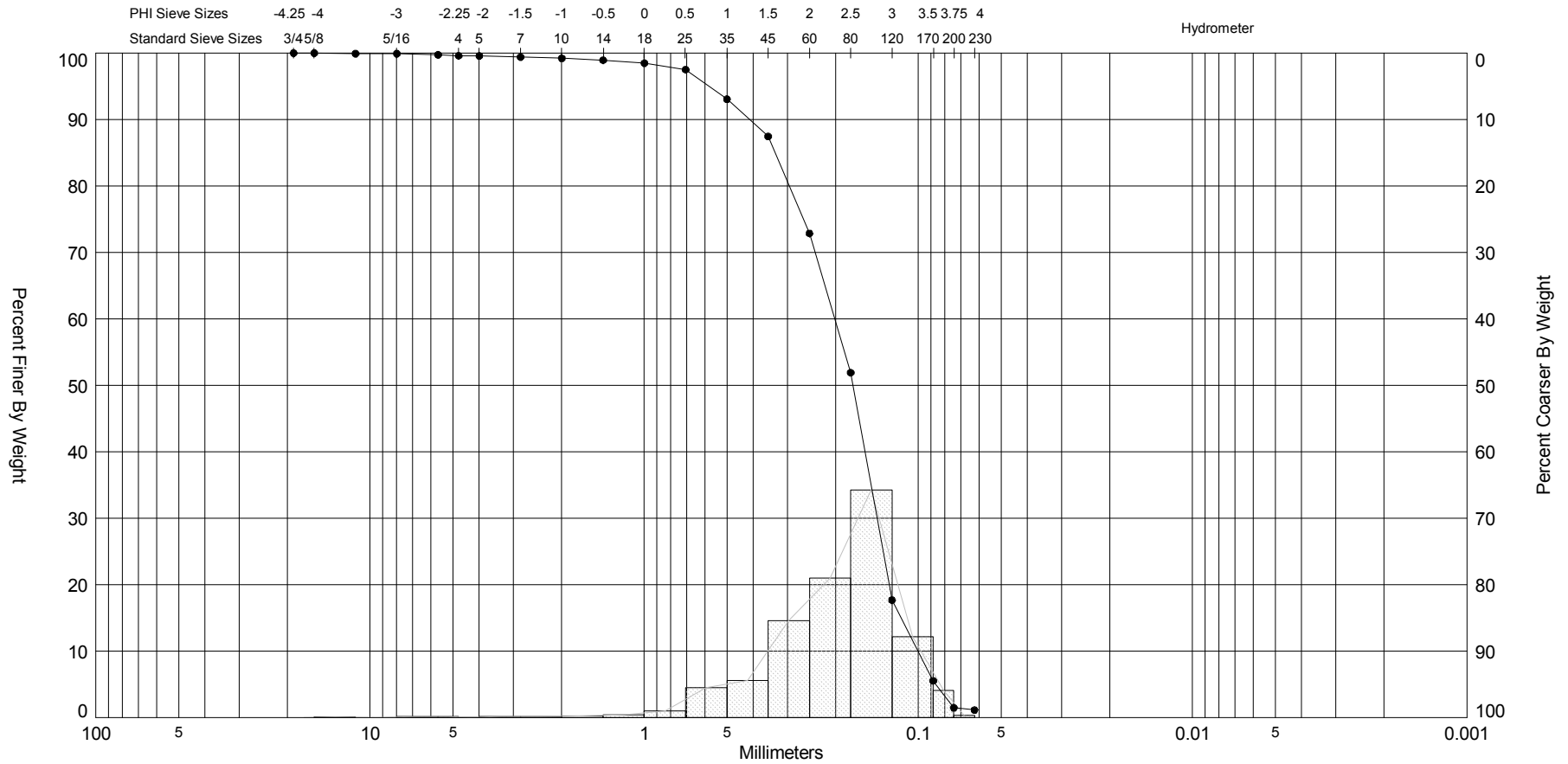
SIEVE ANALYSIS OIB_NATIVESS_APRIL2013_NAVD.GPJ_JPBRAZIL.GDT 3/19/14




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	
BAR CRST COMP	—●—	-7.0	SP	#200 - 1.14 #230 - 1.03			1.98	1.88	-1.09	6.09	0.84	Project Name:	Ocean Isle Beach Terminal Groin
Comments: Average wet Munsell Value is 5. Average dry Munsell Value is 6.											Analysis Date:	02-05-14	
Depths and elevations based on measured values											Analyzed By:	TM	
						Coastal Planning & Engineering A CB&I Company 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):		
											Northing (Y, ft):		
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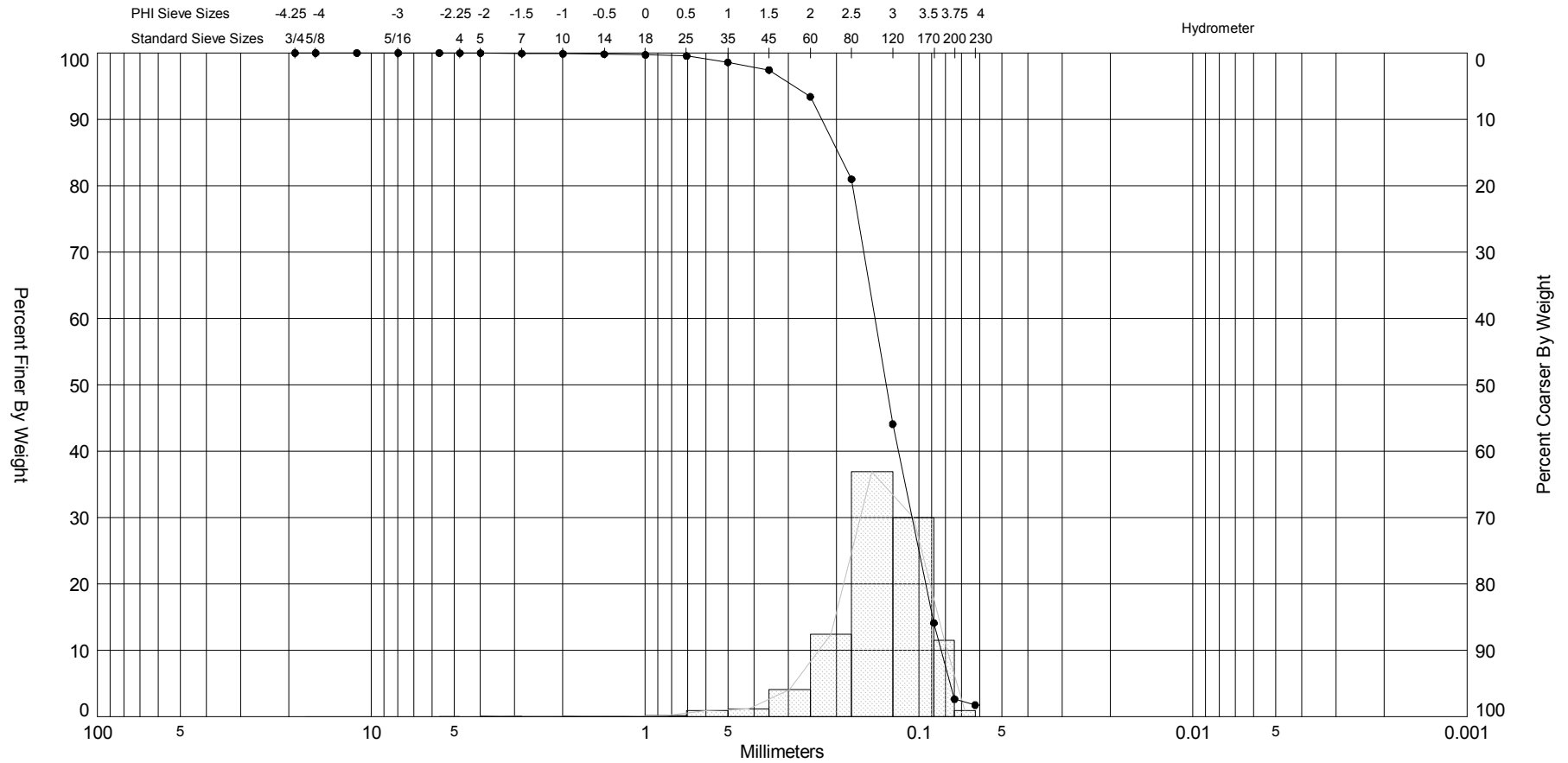
SIEVE ANALYSIS OIB_NATIVESS_APRIL2013_NAVD.GPJ_JPBRAZIL.GDT 3/19/14




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	
-8.75 COMPOSITE	—●—	-8.8	SW	#200 - 1.47 #230 - 1.13			2.53	2.34	-1.77	9.62	0.86	Project Name:	Ocean Isle Beach Terminal Groin
Comments: Average wet Munsell Value is 5. Average dry Munsell Value is 6.											Analysis Date:	07-12-13	
Depths and elevations based on measured values											Analyzed By:	ATP	
							Coastal Planning & Engineering A CB&I Company 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	
												Northing (Y, ft):	
												Horizontal System:	NAD 1983
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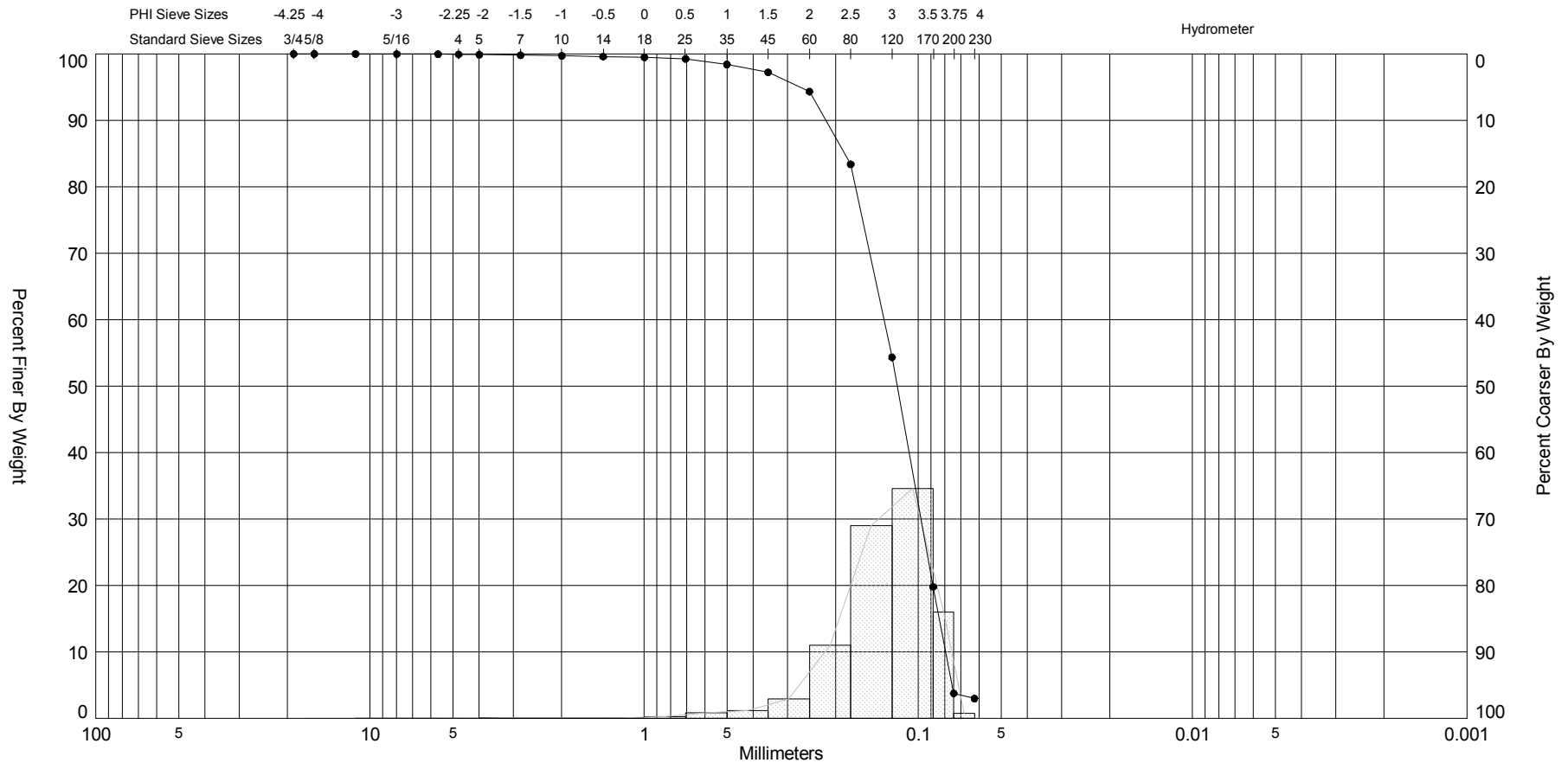
SIEVE ANALYSIS OIB_NATIVESS_APRIL2013_NAVD.GPJ_JPBRAZIL.GDT 3/19/14




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	
-12.5 COMPOSITE	—●—	-12.5	SP	#200 - 2.64 #230 - 1.75			2.92	2.86	-1.64	9.58	0.6	Project Name:	Ocean Isle Beach Terminal Groin
Comments: Average wet Munsell Value is 4. Average dry Munsell Value is 6.												Analysis Date:	07-14-13
Depths and elevations based on measured values												Analyzed By:	ATP
						Coastal Planning & Engineering A CB&I Company 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102						Easting (X, ft):	
												Northing (Y, ft):	
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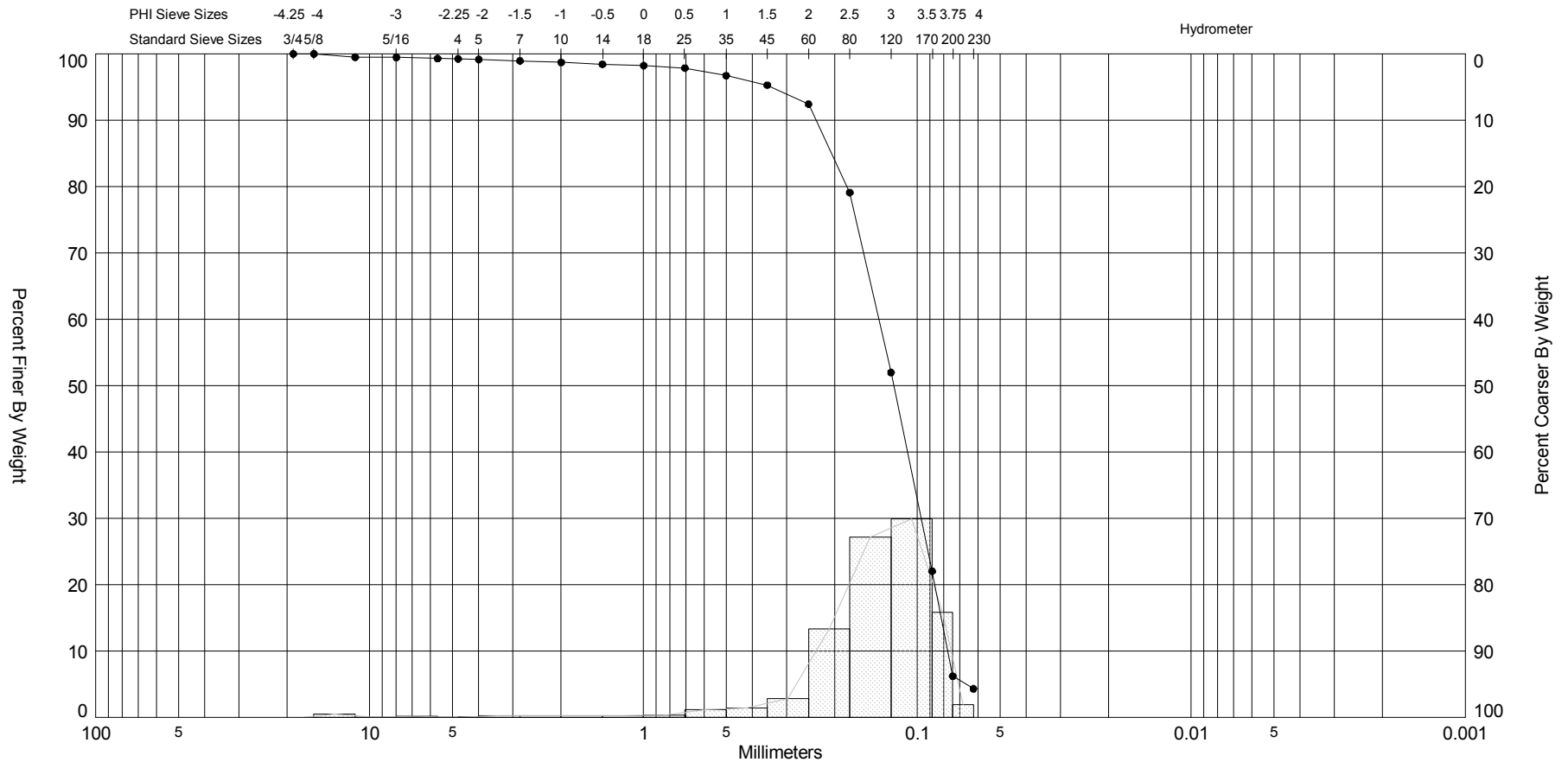
SIEVE ANALYSIS OIB_NATIVESS_APRIL2013_NAVD.GPJ_JPBRAZIL.GDT 3/19/14




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	
-16.25 COMPOSITE	—●—	-16.3	SP	#200 - 3.76 #230 - 2.97			3.06	2.93	-2.41	15.02	0.65	Project Name:	Ocean Isle Beach Terminal Groin
Comments: Average wet Munsell Value is 4. Average dry Munsell Value is 6.											Analysis Date:	07-14-13	
Depths and elevations based on measured values											Analyzed By:	ATP	
							Coastal Planning & Engineering A CB&I Company 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	
												Northing (Y, ft):	
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

SIEVE ANALYSIS OIB_NATIVESS_APRIL2013_NAVD.GPJ_JPBRAZIL.GDT 3/19/14



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	
-20.0 COMPOSITE	—●—	-20.0	SW-SM	#200 - 6.21 #230 - 4.30			3.03	2.83	-3.54	21.73	0.92	Project Name:	Ocean Isle Beach Terminal Groin
Comments: Average wet Munsell Value is 4. Average dry Munsell Value is 6.												Analysis Date:	07-14-13
Depths and elevations based on measured values												Analyzed By:	ATP
							Coastal Planning & Engineering A CB&I Company 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	
												Northing (Y, ft):	
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88