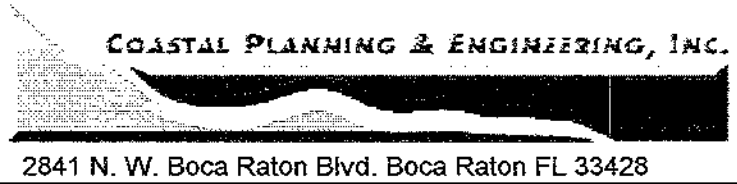


Gradation Analysis Report

Proj Name: Central Boca
 Sample: CBJP-01-05#TOP
 Date: 3/14/01
 By: ID



Elevation: 0 Easting: 963631.00 NAD 1983
 Northing: 729715.00 FLA East Feet

USCS: SW Munsel Dry: 5Y 6/1 Munsel Wet: 5Y 7/1
 Comments: 0

Dry Wt. 85.73 Percent Silt: 1.83
 Wash Wt. 84.19

Sieve Size	PHI Size	mm Size	Grams Retained	% Weight Retained	Cum. Grams Retained	C % Weight Retained
3/4	-4.250	19.027	0.000	0.000	0.000	0.000
5/8	-4.000	16.000	0.000	0.000	0.000	0.000
5/16	-3.250	9.514	0.000	0.000	0.000	0.000
4	-3.000	8.000	0.000	0.000	0.000	0.000
5	-2.000	4.000	0.000	0.000	0.000	0.000
7	-1.500	2.828	0.000	0.000	0.000	0.000
10	-1.000	2.000	0.060	0.070	0.060	0.070
14	-0.500	1.414	0.160	0.187	0.220	0.257
18	0.000	1.000	0.230	0.268	0.450	0.525
25	0.500	0.707	0.470	0.548	0.920	1.073
35	1.000	0.500	0.940	1.096	1.860	2.170
45	1.500	0.354	2.820	3.289	4.680	5.459
60	2.000	0.250	10.250	11.956	14.930	17.415
80	2.500	0.177	31.720	37.000	46.650	54.415
120	3.000	0.125	32.400	37.793	79.050	92.208
170	3.500	0.088	5.030	5.867	84.080	98.075
200	3.750	0.074	0.060	0.070	84.140	98.145
230	4.000	0.063	0.030	0.035	84.170	98.180
Pan	Pan	0.053	1.540	1.796	85.710	99.977

PHI 5 PHI 16 PHI 25 PHI 50 PHI 75 PHI 84 PHI 95
 1.43 1.94 2.10 2.44 2.77 2.89 3.24

Median phi: 2.44 Median mm: 0.18

	Mean phi	Mean mm	Sorting	Skewness	Kurtosis
Graphic	2.39	0.19	0.51	-0.16	1.11
Moment	2.40	0.19	0.62	-0.20	1.68

Gradation Analysis Report

Proj Name: Central Boca
 Sample: CBJP-01-05#MID
 Date: 3/14/01
 By: ID



Elevation: 10 Easting: 963631.00 NAD 1983
 Northing: 729715.00 FLA East Feet

USCS: SW Munsel Dry: 5Y 6/1 Munsel Wet: 5Y 7/1
 Comments: 0

Dry Wt. 83.42 Percent Silt: 2.16
 Wash Wt. 81.63

Sieve Size	PHI Size	mm Size	Grams Retained	% Weight Retained	Cum. Grams Retained	C % Weight Retained
3/4	-4.250	19.027	0.000	0.000	0.000	0.000
5/8	-4.000	16.000	0.000	0.000	0.000	0.000
5/16	-3.250	9.514	0.000	0.000	0.000	0.000
4	-3.000	8.000	0.000	0.000	0.000	0.000
5	-2.000	4.000	0.000	0.000	0.000	0.000
7	-1.500	2.828	0.170	0.204	0.170	0.204
10	-1.000	2.000	0.240	0.288	0.410	0.491
14	-0.500	1.414	0.490	0.587	0.900	1.079
18	0.000	1.000	0.680	0.815	1.580	1.894
25	0.500	0.707	1.640	1.966	3.220	3.860
35	1.000	0.500	2.860	3.428	6.080	7.288
45	1.500	0.354	4.960	5.946	11.040	13.234
60	2.000	0.250	14.590	17.490	25.630	30.724
80	2.500	0.177	27.610	33.098	53.240	63.822
120	3.000	0.125	25.500	30.568	78.740	94.390
170	3.500	0.088	2.800	3.357	81.540	97.746
200	3.750	0.074	0.060	0.072	81.600	97.818
230	4.000	0.063	0.010	0.012	81.610	97.830
Pan	Pan	0.053	1.790	2.146	83.400	99.976

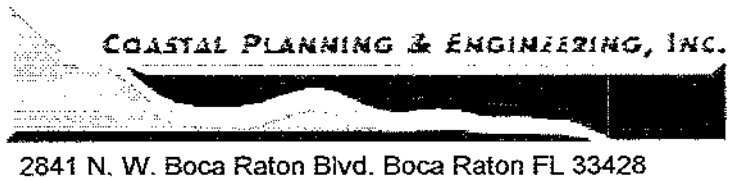
PHI 5 PHI 16 PHI 25 PHI 50 PHI 75 PHI 84 PHI 95
 0.67 1.58 1.84 2.29 2.68 2.83 3.09

Median phi: 2.29 Median mm: 0.20

	Mean phi	Mean mm	Sorting	Skewness	Kurtosis
Graphic	2.09	0.23	0.68	-0.47	1.17
Moment	2.14	0.23	0.84	-0.57	1.95

Gradation Analysis Report

Proj Name: Central Boca
 Sample: CBJP-01-05#BOT
 Date: 3/14/01
 By: ID



Elevation: 20 Easting: 963631.00 NAD 1983
 Northing: 729715.00 FLA East Feet

USCS: SW Munsel Dry: 5Y 6/1 Munsel Wet: 5Y 7/1
 Comments: 0

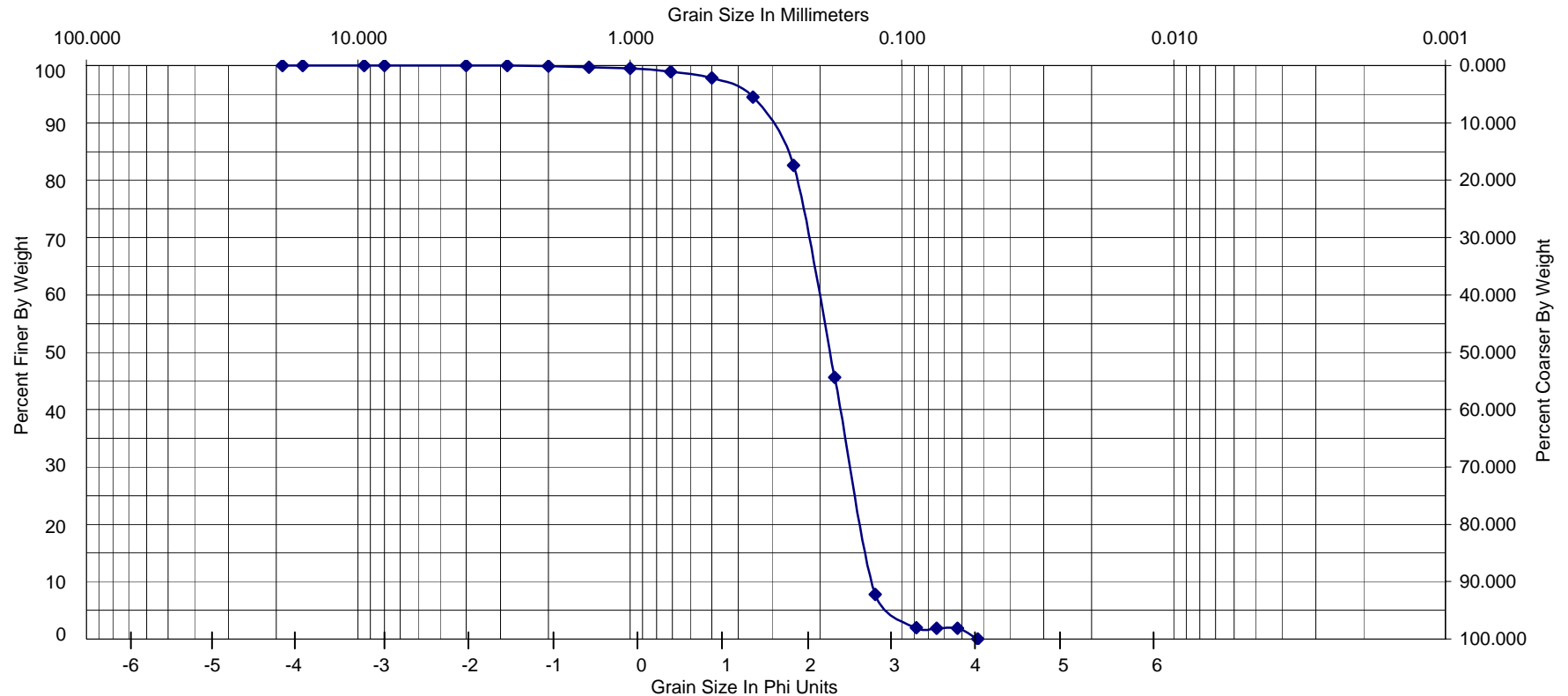
Dry Wt. 81.91 Percent Silt: 2.17
 Wash Wt. 80.20

Sieve Size	PHI Size	mm Size	Grams Retained	% Weight Retained	Cum. Grams Retained	C % Weight Retained
3/4	-4.250	19.027	0.000	0.000	0.000	0.000
5/8	-4.000	16.000	0.000	0.000	0.000	0.000
5/16	-3.250	9.514	0.000	0.000	0.000	0.000
4	-3.000	8.000	0.000	0.000	0.000	0.000
5	-2.000	4.000	0.000	0.000	0.000	0.000
7	-1.500	2.828	0.150	0.183	0.150	0.183
10	-1.000	2.000	0.520	0.635	0.670	0.818
14	-0.500	1.414	0.740	0.903	1.410	1.721
18	0.000	1.000	1.230	1.502	2.640	3.223
25	0.500	0.707	2.420	2.954	5.060	6.178
35	1.000	0.500	4.150	5.067	9.210	11.244
45	1.500	0.354	8.070	9.852	17.280	21.096
60	2.000	0.250	13.010	15.883	30.290	36.980
80	2.500	0.177	22.810	27.848	53.100	64.827
120	3.000	0.125	19.760	24.124	72.860	88.951
170	3.500	0.088	7.060	8.619	79.920	97.571
200	3.750	0.074	0.200	0.244	80.120	97.815
230	4.000	0.063	0.040	0.049	80.160	97.864
Pan	Pan	0.053	1.740	2.124	81.900	99.988

PHI 5 PHI 16 PHI 25 PHI 50 PHI 75 PHI 84 PHI 95
 0.30 1.24 1.62 2.23 2.71 2.90 3.35

Median phi: 2.23 Median mm: 0.21

	Mean phi	Mean mm	Sorting	Skewness	Kurtosis
Graphic	2.00	0.25	0.88	-0.41	1.15
Moment	2.05	0.24	1.06	-0.40	1.75



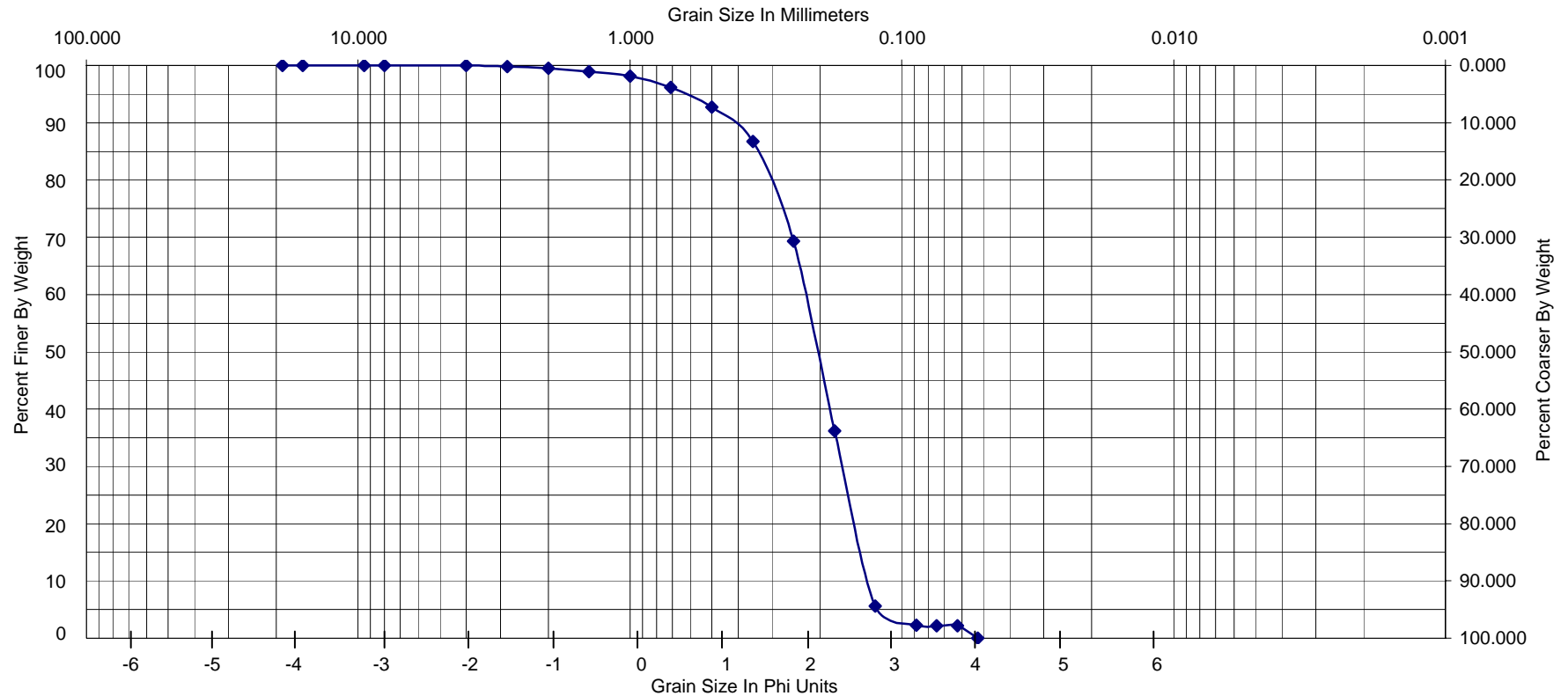
Gravel		Sand			Silt or Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample No.	Depth	Description	USCS	% Silt	Median	Mean	Skew	Kurt	Sort	PL	LL	PI	Sample Information
◆ CBJP-01-05#TOP	0.0		SW	1.83	0.18	0.19	-0.2	1.68	0.62	NA	NA	NA	Project Name: Central Boca
													Sample Type: JET PROBES
													Collection Date: 3/14/01
													Analysis By: ID




COASTAL PLANNING & ENGINEERING, INC.
2481 N. W. BOCA RATON BLVD.
BOCA RATON, FLORIDA 33431

Easting (X):	963631.00 Feet
Northing (Y):	729715.00 Feet
Sample Elevation:	-62.70 NGVD 29
Coord. System:	NAD 1983 FLA East



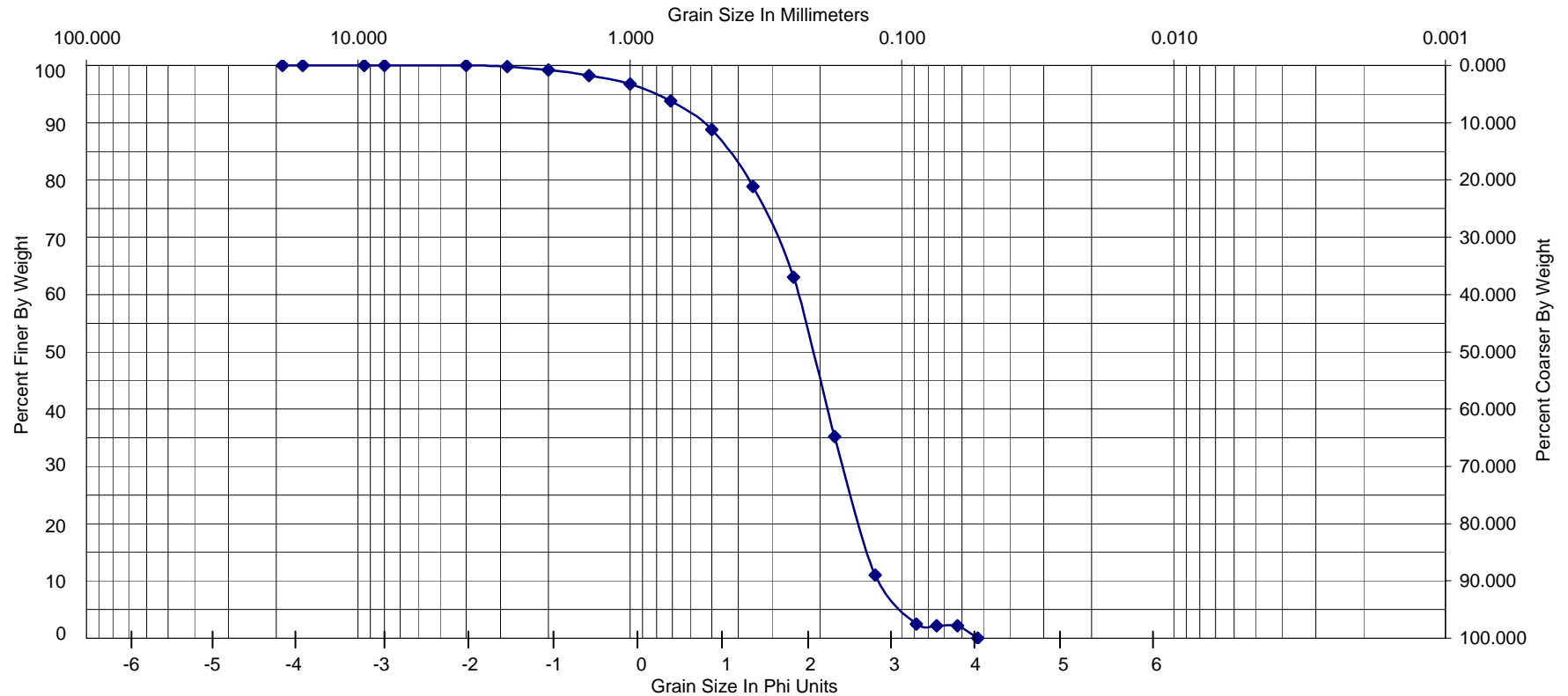
Gravel		Sand			Silt or Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample No.	Depth	Description	USCS	% Silt	Median	Mean	Skew	Kurt	Sort	PL	LL	PI	Sample Information
◆ CBJP-01-05#MID	10.0		SW	2.16	0.2	0.23	-0.57	1.95	0.84	NA	NA	NA	Project Name: Central Boca
													Sample Type: JET PROBES
													Collection Date: 3/14/01
													Analysis By: ID




COASTAL PLANNING & ENGINEERING, INC.
2481 N. W. BOCA RATON BLVD.
BOCA RATON, FLORIDA 33431

Easting (X):	963631.00 Feet
Northing (Y):	729715.00 Feet
Sample Elevation:	-62.70 NGVD 29
Coord. System:	NAD 1983 FLA East



Gravel		Sand			Silt or Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample No.	Depth	Description	USCS	% Silt	Median	Mean	Skew	Kurt	Sort	PL	LL	PI	Sample Information
— CBJP-01-05#BOT	20.0		SW	2.17	0.21	0.24	-0.4	1.75	1.06	NA	NA	NA	Project Name: Central Boca
													Sample Type: JET PROBES
													Collection Date: 3/14/01
													Analysis By: ID



COASTAL PLANNING & ENGINEERING, INC.
2481 N. W. BOCA RATON BLVD.
BOCA RATON, FLORIDA 33431

Easting (X):	963631.00 Feet
Northing (Y):	729715.00 Feet
Sample Elevation:	-62.70 NGVD 29
Coord. System:	NAD 1983 FLA East