

# JET PROBE LOG

PROJECT: ESTERO JET PROBES

JET PROBE: EST-JP-4

COORDINATES:

N = 660356.33

E = 767767.97

DATE: 5/1/00

START TIME: 1542

END TIME: 1548

WATER DEPTH: 7.2'

TOP DIVER: CM

BOTTOM DIVER: TT

NOTES	ELEV.	DEPTH	SYMBOL	DESCRIPTION
LENGTH OF PVC PIPE: 20' PENETRATION DEPTH: 14' JET PUMP TYPE: Briggs and Straton 3.0 hp  GAL/HR: 8460 DIAMETER OF PIPE: 1.5"	-9.2	0		SEA FLOOR
SUPPORT VESSEL: CPE II  POSITIONING: DIFFERENTIAL GPS USCG BEACON  NAVIGATION SYSTEM: "HYPACK"	-14.2	1		SAND, fine grained, some shell hash, gray
WEATHER:  WIND: DIR: W SPEED: 5-10 KT.  WAVES: DIR: SW to NE HEIGHT: 1 ft	-20.2	2		SAND, fine grained, shell hash, gray
CURRENT: DIR: NW to SE SPEED: 2.0 KTS +	-23.2	3		SAND, fine grained, shell hash and shell fragments, gray
		4		HOLE COLLAPSE NO ROCK BOTTOM
		5		
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		18		
		19		
		20		
		21		
		22		
		23		
		24		
TURBIDITY: TOP (0' - 7'): MOD BOTTOM: (7' - 14'): MOD				
DRAWN BY: TT      CHECKED BY: COMM.NO: 8410.02				

SAND SAMPLES  
 SURFACE: 0.41mm, 4.5% silt  
  
 MID: 0.62mm, 6.7% silt  
  
 BOTTOM: 0.45mm, 3.6% silt

GRADATION ANALYSIS REPORT  
ESTERO JET PROBES 2000  
TESTED BY: ID ON: 5/00

SAMPLE NO.: JP#4 TOP  
SAMPLE ELEV. (FT. NGVD): 0.0  
SAMPLE DEPTH (FT.): 0.0  
SAMPLE TYPE: SURFACE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 100.06  
SAMPLE WEIGHT AFTER WASH (GRAMS): 95.91

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.00	16.000	0.00	0.00	100.00
5/16	-3.00	8.000	0.00	0.00	100.00
5	-2.00	4.000	6.06	6.06	93.94
7	-1.50	2.800	12.46	12.45	87.55
10	-1.00	2.000	18.09	18.08	81.92
14	-0.50	1.400	24.41	24.40	75.60
18	0.00	1.000	29.23	29.21	70.79
25	0.50	0.710	35.21	35.19	64.81
35	1.00	0.500	40.56	40.54	59.46
45	1.50	0.355	44.67	44.64	55.36
60	2.00	0.250	50.80	50.77	49.23
80	2.50	0.180	60.91	60.87	39.13
120	3.00	0.125	61.56	61.52	38.48
170	3.50	0.090	94.27	94.21	5.79
200	3.75	0.075	95.62	95.56	4.44
230	4.00	0.063	97.93	97.88	2.12
PAN			100.05	99.99	0.01

PHI(5): -2.17 PHI(16): -1.18 PHI(25): -0.44  
PHI(50): 1.94 PHI(75): 3.21 PHI(84): 3.34  
PHI(95): 3.65

SIEVE LOSS(g): 0.01 SILT/CLAY: 4.44%  
SKEWNESS: -0.531 KURTOSIS: 0.655

GRAPHIC METHOD

MEAN (PHI): 1.11 SORTING: 2.26  
MEAN (mm): 0.46 MEDIAN (mm): 0.26  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.29 SORTING: 1.99  
MEAN (mm): 0.41

DATA FILE NAME: JP#4 TOP.TAB

GRADATION ANALYSIS REPORT  
ESTERO JET PROBES 2000  
TESTED BY: ID ON: 5/00

SAMPLE NO.: JP#4 MID  
SAMPLE ELEV. (FT. NGVD): 0.0  
SAMPLE DEPTH (FT.): 0.0  
SAMPLE TYPE: SURFACE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 100.51  
SAMPLE WEIGHT AFTER WASH (GRAMS): 94.48

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.00	16.000	0.00	0.00	100.00
5/16	-3.00	8.000	1.85	1.84	98.16
5	-2.00	4.000	9.96	9.91	90.09
7	-1.50	2.800	17.93	17.84	82.16
10	-1.00	2.000	26.10	25.97	74.03
14	-0.50	1.400	34.44	34.27	65.73
18	0.00	1.000	41.32	41.11	58.89
25	0.50	0.710	48.29	48.04	51.96
35	1.00	0.500	54.00	53.73	46.27
45	1.50	0.355	57.73	57.44	42.56
60	2.00	0.250	61.29	60.98	39.02
80	2.50	0.180	65.13	64.80	35.20
120	3.00	0.125	79.59	79.19	20.81
170	3.50	0.090	91.20	90.74	9.26
200	3.75	0.075	93.83	93.35	6.65
230	4.00	0.063	97.29	96.80	3.20
PAN			100.50	99.99	0.01

PHI(5): -2.61 PHI(16): -1.62 PHI(25): -1.06  
PHI(50): 0.67 PHI(75): 2.85 PHI(84): 3.21  
PHI(95): 3.87

SIEVE LOSS(g): 0.01 SILT/CLAY: 6.65%  
SKEWNESS: -0.017 KURTOSIS: 0.678

GRAPHIC METHOD

MEAN (PHI): 0.71 SORTING: 2.41  
MEAN (mm): 0.61 MEDIAN (mm): 0.63  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 0.69 SORTING: 2.10  
MEAN (mm): 0.62

DATA FILE NAME: JP#4 MID.TAB



GRADATION ANALYSIS REPORT  
ESTERO JET PROBES 2000  
TESTED BY: ID            ON: 5/00

SAMPLE NO.: JP#4 BOTTOM  
SAMPLE ELEV. (FT. NGVD): 0.0  
SAMPLE DEPTH (FT.): 0.0  
SAMPLE TYPE: SURFACE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 99.83  
SAMPLE WEIGHT AFTER WASH (GRAMS): 96.52

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.00	16.000	0.00	0.00	100.00
5/16	-3.00	8.000	0.40	0.40	99.60
5	-2.00	4.000	7.38	7.39	92.61
7	-1.50	2.800	13.03	13.05	86.95
10	-1.00	2.000	18.52	18.55	81.45
14	-0.50	1.400	24.87	24.91	75.09
18	0.00	1.000	30.76	30.81	69.19
25	0.50	0.710	37.90	37.96	62.04
35	1.00	0.500	43.80	43.87	56.13
45	1.50	0.355	48.09	48.17	51.83
60	2.00	0.250	54.17	54.26	45.74
80	2.50	0.180	61.99	62.10	37.90
120	3.00	0.125	71.44	71.56	28.44
170	3.50	0.090	94.78	94.94	5.06
200	3.75	0.075	96.21	96.37	3.63
230	4.00	0.063	98.13	98.29	1.71
PAN			99.82	99.99	0.01

PHI(5): -2.34            PHI(16): -1.23            PHI(25): -0.49  
PHI(50): 1.65            PHI(75): 3.07            PHI(84): 3.27  
PHI(95): 3.51

SIEVE LOSS(g): 0.01            SILT/CLAY: 3.63%  
SKEWNESS: -0.474            KURTOSIS: 0.673

GRAPHIC METHOD

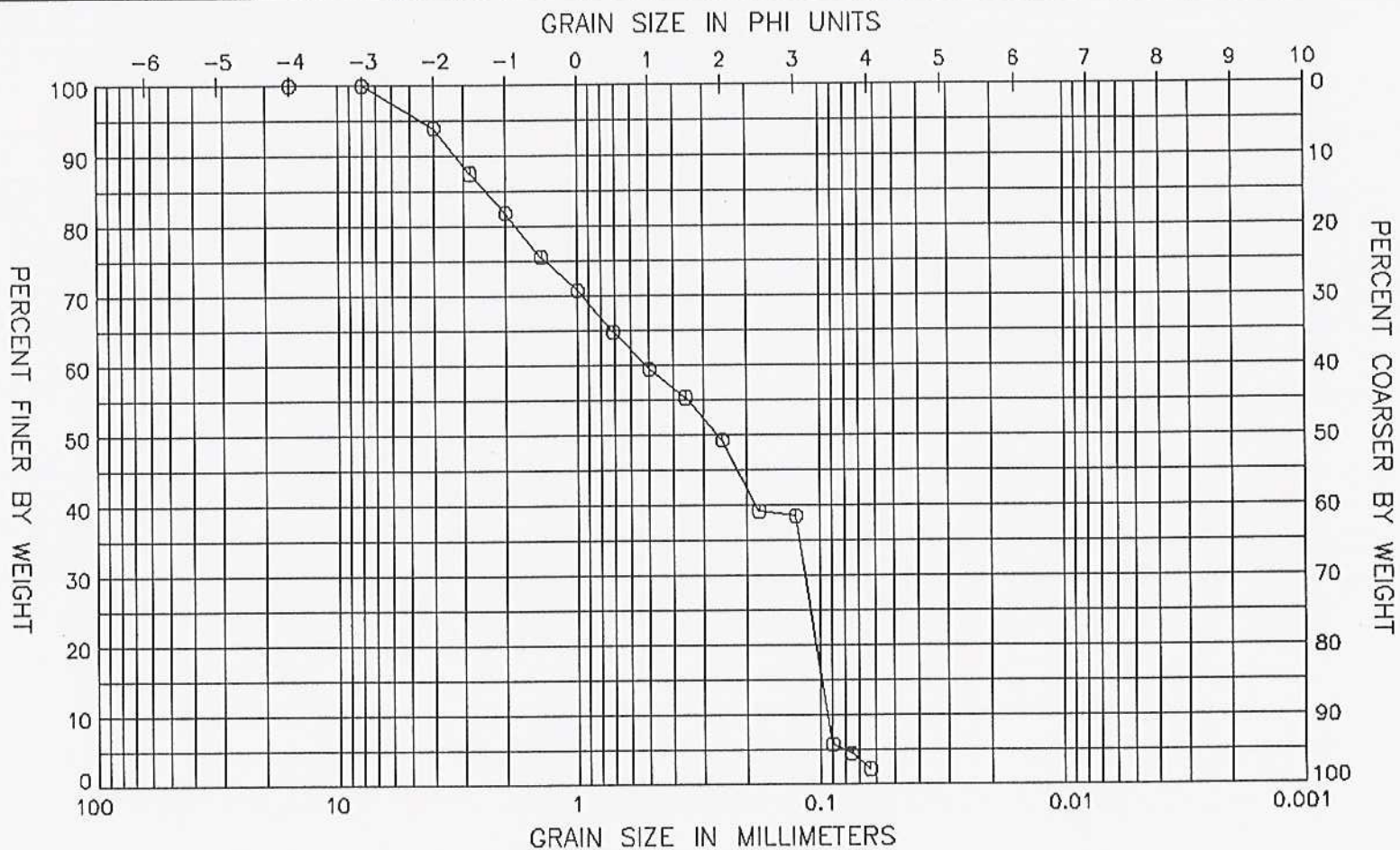
MEAN (PHI): 0.97            SORTING: 2.25  
MEAN (mm): 0.51            MEDIAN (mm): 0.32  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.15            SORTING: 1.98  
MEAN (mm): 0.45

DATA FILE NAME: JP#4 BOTTOM.TAB

GRAIN SIZE DISTRIBUTION CURVE  
ESTERO JET PROBES 2000

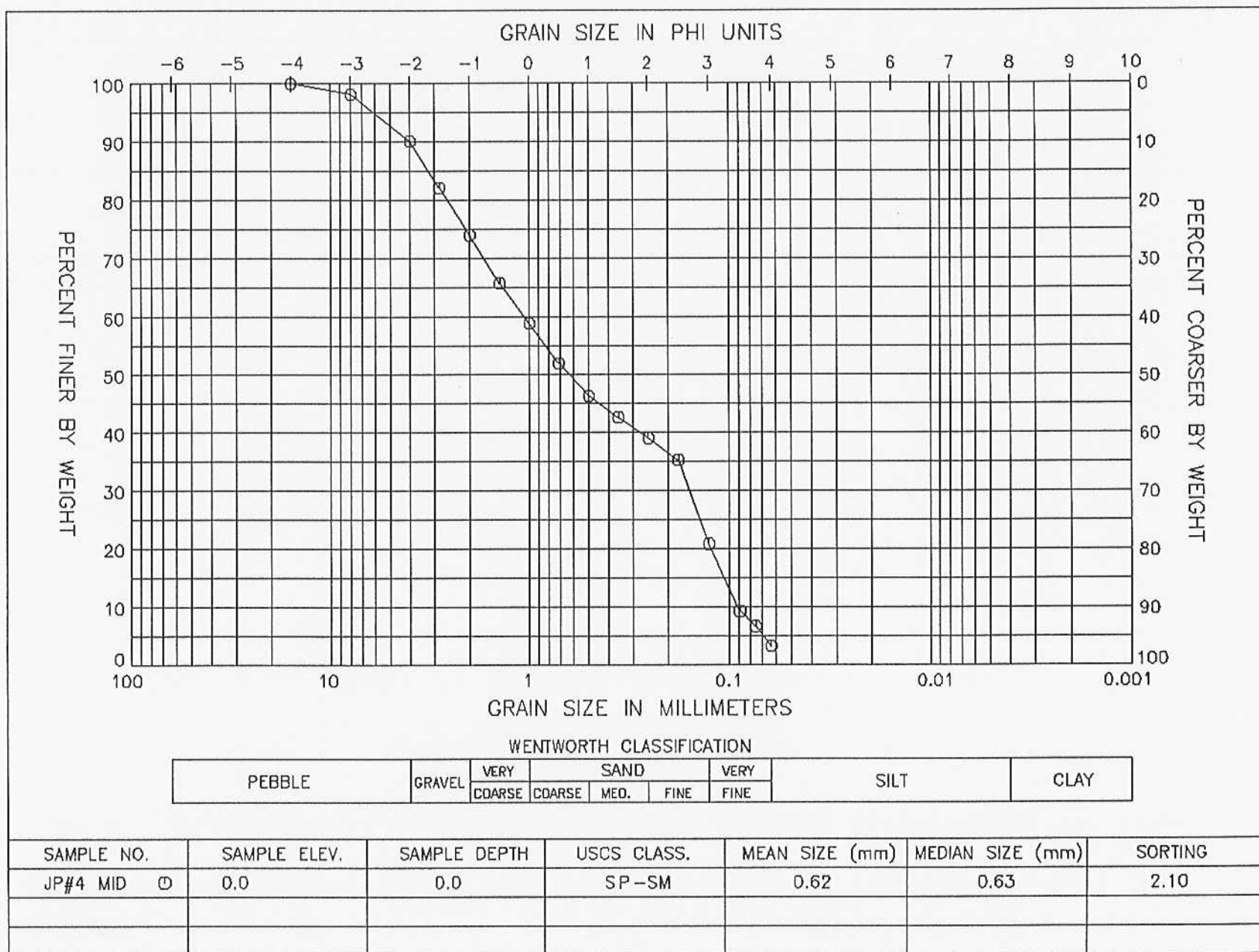


WENTWORTH CLASSIFICATION

PEBBLE	GRAVEL	VERY	SAND		VERY	SILT	CLAY
		COARSE	COARSE	MED.	FINE		

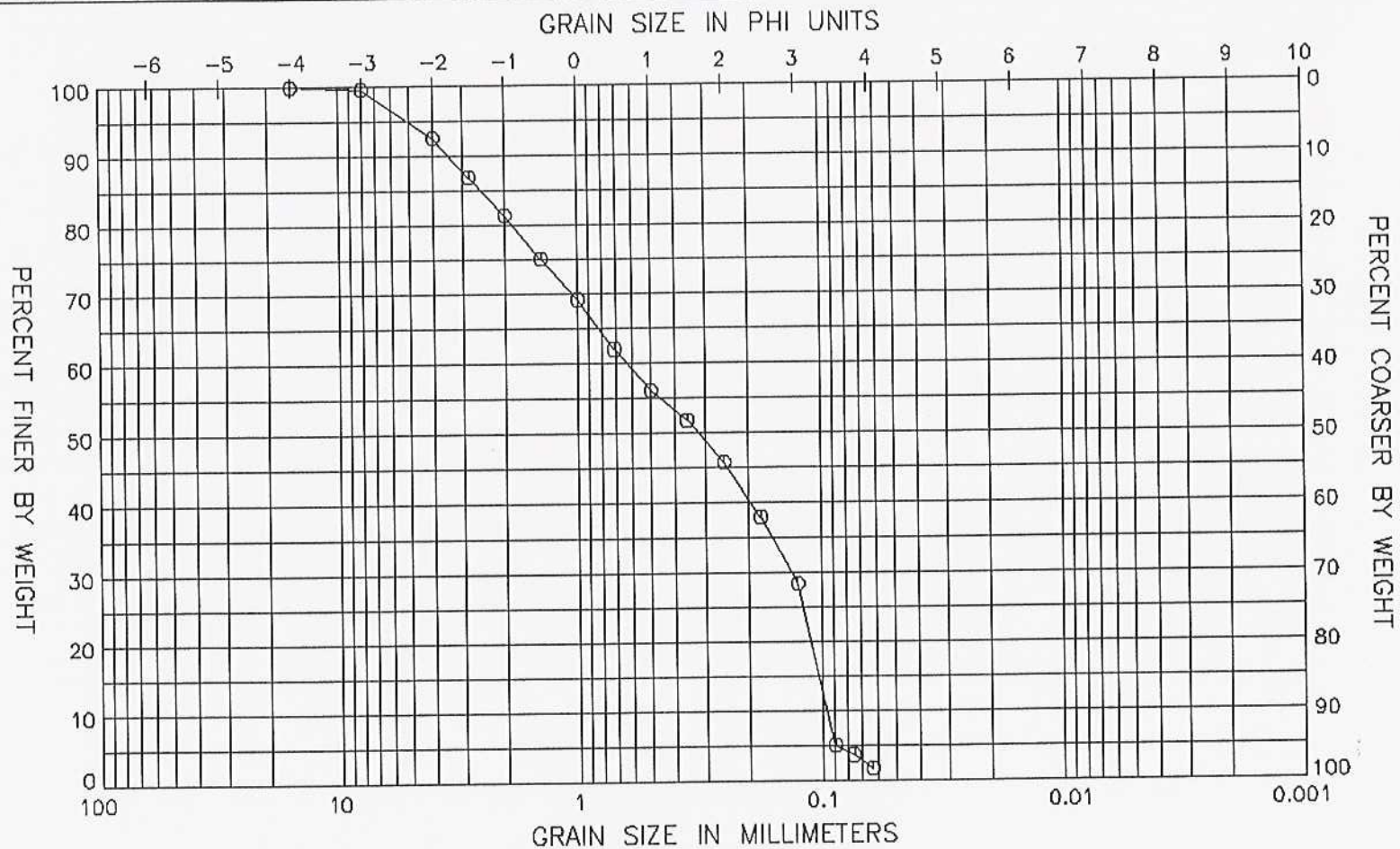
SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
JP#4 TOP Ø	0.0	0.0	SP	0.41	0.25	1.99

# GRAIN SIZE DISTRIBUTION CURVE ESTERO JET PROBES 2000





GRAIN SIZE DISTRIBUTION CURVE  
ESTERO JET PROBES 2000



WENTWORTH CLASSIFICATION

PEBBLE	GRAVEL	VERY	SAND			VERY	SILT	CLAY
		COARSE	COARSE	MED.	FINE	FINE		

SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
JP#4 BOTTOM	0.0	0.0	SP	0.45	0.32	1.98