

Grain size distribution curve for a fine sand sample. The graph plots Percent Finer (0-100) against Grain Size in mm (log scale, 200 to 0.001). The curve shows a sharp drop between 0.075 mm and 0.06 mm, indicating a well-sorted sand. The percentage finer is approximately 15% at 0.06 mm and 16% at 0.075 mm.

Grain Size (mm)	Percent Finer (%)
200	100
100	100
60	100
40	100
20	100
10	100
7.5	100
6	100
4.75	100
3.75	100
3.0	100
2.5	100
2.0	100
1.5	100
1.18	100
0.85	100
0.75	100
0.6	100
0.5	100
0.425	100
0.375	100
0.3	100
0.25	100
0.2	100
0.15	100
0.125	100
0.106	100
0.085	100
0.075	100
0.06	15
0.05	16
0.0425	16
0.0375	16
0.03	16
0.025	16
0.02	16
0.015	16
0.0125	16
0.0106	16
0.0085	16
0.0075	16
0.006	16
0.005	16
0.00425	16
0.00375	16
0.003	16
0.0025	16
0.002	16
0.0015	16
0.00125	16
0.00106	16
0.00085	16
0.00075	16
0.0006	16
0.0005	16
0.000425	16
0.000375	16
0.0003	16
0.00025	16
0.0002	16
0.00015	16
0.000125	16
0.000106	16
0.000085	16
0.000075	16
0.00006	16
0.00005	16
0.0000425	16
0.0000375	16
0.00003	16
0.000025	16
0.00002	16
0.000015	16
0.0000125	16
0.0000106	16
0.0000085	16
0.0000075	16
0.000006	16
0.000005	16
0.00000425	16
0.00000375	16
0.000003	16
0.0000025	16
0.000002	16
0.0000015	16
0.00000125	16
0.00000106	16
0.00000085	16
0.00000075	16
0.0000006	16
0.0000005	16
0.000000425	16
0.000000375	16
0.0000003	16
0.00000025	16
0.0000002	16
0.00000015	16
0.000000125	16
0.000000106	16
0.000000085	16
0.000000075	16
0.00000006	16
0.00000005	16
0.0000000425	16
0.0000000375	16
0.00000003	16
0.000000025	16
0.00000002	16
0.000000015	16
0.0000000125	16
0.0000000106	16
0.0000000085	16
0.0000000075	16
0.000000006	16
0.000000005	16
0.00000000425	16
0.00000000375	16
0.000000003	16
0.0000000025	16
0.000000002	16
0.0000000015	16
0.00000000125	16
0.00000000106	16
0.00000000085	16
0.00000000075	16
0.0000000006	16
0.0000000005	16
0.000000000425	16
0.000000000375	16
0.0000000003	16
0.00000000025	16
0.0000000002	16
0.00000	

[illegible]

MATERIAL DESCRIPTION	USCS	AASHTO
● SEDIMENT		

Date: 03/27/00

Remarks:

Figure No. _____

Date: 03/27/00
Project No.: 16622-07
Project: USACE-CORPUS CHRISTI

Sample Data

Location of Sample: CC-RA-00-02
Sample Description: SEDIMENT
USCS Class: Liquid limit:
AASHTO Class: Plasticity index:

Notes

Remarks:

Fig. No.:

Mechanical Analysis Data

Initial
Dry sample and tare= 25.58
Tare = 0.00
Dry sample weight = 25.58
Sieve tare method

Sieve	Weight retained	Sieve tare	Percent finer
# 4	0.00	0.00	100.0
# 10	0.00	0.00	100.0
# 20	0.02	0.00	99.9
# 40	0.02	0.00	99.8
# 60	0.05	0.00	99.6
# 70	0.02	0.00	99.6
# 100	0.02	0.00	99.5
# 140	0.22	0.00	98.6
# 200	0.35	0.00	97.3

Hydrometer Analysis Data

Separation sieve is number 10
Percent -# 10 based on complete sample= 100.0
Weight of hydrometer sample: 25.58
Calculated biased weight= 25.58
Automatic temperature correction
Composite correction at 20 deg C =-2.5

Meniscus correction only= 1
Specific gravity of solids= 2.63
Specific gravity correction factor= 1.005

Elapsed time, min	Temp, deg C	Actual reading	Corrected reading	K	Rm	Eff. depth	Diameter mm	Percent finer
2.0	25.5	25.0	24.0	0.0128	26.0	12.0	0.0315	94.1
4.0	25.5	24.0	23.0	0.0128	25.0	12.2	0.0224	90.1
30.0	25.5	22.0	21.0	0.0128	23.0	12.5	0.0083	82.3
60.0	25.5	22.0	21.0	0.0128	23.0	12.5	0.0059	82.3
120.0	25.5	20.0	19.0	0.0128	21.0	12.9	0.0042	74.4
240.0	25.5	5.0	4.0	0.0128	6.0	15.3	0.0032	15.5
1440.0	25.5	5.0	4.0	0.0128	6.0	15.3	0.0013	15.5

Fractional Components

Gravel/Sand based on #4 sieve

Sand/Fines based on #200 sieve

% + 3 in. = 0.0 % GRAVEL = 0.0 % SAND = 2.7

% SILT = 16.8 % CLAY = 80.5

D85= 0.01 D60= 0.004 D50= 0.004

D30= 0.0035 D15= 0.00319

WATER QUALITY DATA

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Project: **Corpus Christi Ship Channel - Rincon Canal**EHA Job #: **DO 0028**Date(s) Collected: 03/23/2000Tide, MLT: HighWind Direction: SSEWind Speed: 20-25 mph, gustyWeather and Water Conditions: Cloudy, rough, white caps, waves 2-3'

Sample Number	CC-R-00-GS130*	CC-R-00-03B	CC-R-00-GS145*	CC-R-00-GS150*	CC-RA-00-01A	CC-RA-00-01B	CC-RA-00-02	CC-RA-00-02A	
Station	130+00	140+00	145+00	150+00	10+00	30+00	50+00	68+00	
Distance From C _L (Ft.)	25' SW	25' NE	25' NE	0	0	0	0	0	
Water Depth MLT (Ft.)	6	6	12	15	12	14.5	14	14	
DO (mg/L)	7.13	6.95	6.88	6.68	6.74	6.40	5.85	6.26	
pH	8.1	8.07	8.08	8.08	8.08	8.11	8.1	8.02	
Salinity (‰)	33.41	33.32	33.09	33.16	33.26	33.49	33.65	33.38	
Water Temp. (°C)	22.46	22.53	22.13	22.23	22.1	22.04	22.09	20.96	
Air Temp. (°C)	73	73	73	73	73	72	72	72	
Lat	27 50 12.3	27 50 25.15	27 50 27.52	27 50 30.09	27 50 27.24	27 50 09.45	27 49 51.23	27 49 39.3	
Long	97 22 27.5	97 22 38.71	97 22 40.64	97 22 43.31	97 22 54.82	97 23 07.53	97 23 15.72	97 23 28.7	
Time	1300	1230	1200	1150	1109	1056	1030	1007	

REMARKS: *Sediment for Grain-Size analysis only.