

Grain size distribution curve for a sample of 100% fines. The graph plots Percent Finer (0 to 100) against Grain Size in mm (logarithmic scale from 200 to 0.001). The curve shows 100% fines for grain sizes greater than approximately 0.075 mm, dropping sharply to about 12% fines for grain sizes smaller than 0.0075 mm.

Grain Size (mm)	Percent Finer (%)
200	100
100	100
50	100
25	100
12.5	100
6.3	100
3.15	100
1.6	100
0.85	100
0.425	100
0.25	100
0.15	100
0.075	100
0.06	98
0.0475	92
0.0375	91
0.03	88
0.025	82
0.02	78
0.015	52
0.0125	12
0.01	12
0.0075	12
0.006	12
0.005	12

[illegible]

MATERIAL DESCRIPTION	USCS	AASHTO
● SEDIMENT		

ANACON, INC.

Remarks:

Figure No. _____

Date: 03/27/00
Project No.: 16622-06
Project: USACE-CORPUS CHRISTI

Sample Data

Location of Sample: CC-RA-00-01B
Sample Description: SEDIMENT
USCS Class: Liquid limit:
AASHTO Class: Plasticity index:

Notes

Remarks:

Fig. No.:

Mechanical Analysis Data

Initial
Dry sample and tare= 25.11
Tare = 0.00
Dry sample weight = 25.11
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	0.00	0.00	100.0
# 40	0.01	0.00	100.0
# 60	0.07	0.00	99.7
# 70	0.09	0.00	99.3
# 100	0.05	0.00	99.1
# 140	0.07	0.00	98.8
# 200	0.33	0.00	97.5

Hydrometer Analysis Data

Separation sieve is number 10
Percent -# 10 based on complete sample= 100.0
Weight of hydrometer sample: 25.11
Calculated biased weight= 25.11
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	24.0	23.0	0.0128	25.0	12.2	0.0317	91.8
4.0	25.5	24.0	23.0	0.0128	25.0	12.2	0.0224	91.8
30.0	25.5	21.0	20.0	0.0128	22.0	12.7	0.0084	79.8
60.0	25.5	20.0	19.0	0.0128	21.0	12.9	0.0059	75.8
120.0	25.5	14.0	13.0	0.0128	15.0	13.8	0.0044	51.8
240.0	25.5	4.0	3.0	0.0128	5.0	15.5	0.0033	11.8
1440.0	25.5	4.0	3.0	0.0128	5.0	15.5	0.0013	11.8

Fractional Components

Gravel/Sand based on #4 sieve

Sand/Fines based on #200 sieve

% + 3 in. = 0.0 % GRAVEL = 0.0 % SAND = 2.5

% SILT = 30.7 % CLAY = 66.8

D85= 0.01 D60= 0.005 D50= 0.004

D30= 0.0038 D15= 0.00340

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.