

Date: 03/27/00
Project No.: 16622-05
Project: USACE-CORPUS CHRISTI

Sample Data

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

Notes

Remarks:

Fig. No.:

Mechanical Analysis Data

Initial

Dry sample and tare= 38.65
Tare = 0.00
Dry sample weight = 38.65
Sieve tare method

Sieve	Weight retained	Sieve tare	Percent finer
# 4	0.08	0.00	99.8
# 10	0.02	0.00	99.7
# 20	0.05	0.00	99.6
# 40	0.06	0.00	99.5
# 60	0.22	0.00	98.9
# 70	0.10	0.00	98.6
# 100	0.04	0.00	98.5
# 140	1.51	0.00	94.6
# 200	4.14	0.00	83.9

Hydrometer Analysis Data

Separation sieve is number 10
Percent -# 10 based on complete sample= 99.7
Weight of hydrometer sample: 38.65
Calculated biased weight= 38.75
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	62.1
4.0	25.5	25.0	24.0	0.0128	26.0	12.0	0.0223	62.1
30.0	25.5	23.0	22.0	0.0128	24.0	12.4	0.0082	56.9
60.0	25.5	22.0	21.0	0.0128	23.0	12.5	0.0059	54.3
120.0	25.5	21.0	20.0	0.0128	22.0	12.7	0.0042	51.7
240.0	25.5	20.0	19.0	0.0128	21.0	12.9	0.0030	49.1
1440.0	25.5	4.0	3.0	0.0128	5.0	15.5	0.0013	7.7

Fractional Components

Gravel/Sand based on #4 sieve

Sand/Fines based on #200 sieve

% + 3 in. = 0.0 % GRAVEL = 0.2 % SAND = 15.9

% SILT = 31.0 % CLAY = 52.9

D85= 0.08 D60= 0.012 D50= 0.003

D30= 0.0019 D15= 0.00148 D10= 0.00138

Cc = 0.2061 Cu = 8.9950

WATER QUALITY DATA

Project: **Corpus Christi Ship Channel - Rincon Canal**

EHA Job #: **DO 0028**

Date(s) Collected: 03/23/2000

Tide, MLT: High

Wind Direction: SSE

Wind Speed: 20-25 mph, gusty

Weather 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.