

April 15, 2010

Chapel Hill, LLC
Post Office Box 14310
Monroe, Louisiana 71207-4310

Attention: [REDACTED]

Project No.: 1848.01
Report No.: 00019

Earthen Materials Testing Report
USACE Contract No. W912P8-10-C-0017

Submitted in this report are the laboratory testing results for the samples collected on April 1, 2010, from the pit.

Laboratory Testing:

- 1 ASTM D 698
- 4 ASTM D 1140 (Reported on C 117/C 136 Form)
- 4 ASTM D 2216
- 4 ASTM D 2487
- 4 ASTM D 2974
- 4 ASTM D 4318 (Included on D2487 Report Form)

We appreciate the opportunity to be of service and should you have any questions concerning the information provided, please do not hesitate to contact us.

Very truly yours,
SoilTech Consultants, Inc.



Checked By



Reviewed By



**US Army Corps
of Engineers**

Sieve Analysis - ASTM C 117 and ASTM C 136

Laboratory	SoilTech Consultants	Test ID	040110-01
USACE Contract Number	W912P8-10-C-0017	Contractor	Chapel Hill
Project	Earthen Material Testing	Date	4/1/2010
Source of Material	Pearlington Dirt Pit	Feature	Visual Description (ASTM D 2488) Brown and gray lean clay with sand
Station	Pit	Offset	Lift Number
X-Coordinate	30.27157	Y-Coordinate	89.57848
Tested By	T. Whitaker	Checked By	L. Reese
		Submitted By	L. Reese

Materials Finer than No. 200 Sieve - ASTM C 117 (Procedure A)

Original Dry Mass of Sample (g)	74.76
Dry Mass of Sample after Washing (g)	14.20
Material Finer than No. 200 Sieve by Washing (%)	81.01

Sieve Analysis - ASTM C 136

Mass of Sample (g)	Mass of Material > No. 4 Sieve (g)	USCS Group Name / Symbol																																																																																																																			
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Remarks: Samples collected approximately 2.5' to 5.0' below existing ground surface.



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Sieve Analysis - ASTM C 117 and ASTM C 136

Laboratory	SoilTech Consultants		Test ID	040110-02	
USACE Contract Number	W912P8-10-C-0017		Contractor	Chapel Hill	
Project	Earthen Material Testing		Date	4/1/2010	
Source of Material	Pearlington Dirt Pit	Feature		Visual Description (ASTM D 2488)	Gray and brown clayey sand
Station	Pit	Offset		Lift Number	
X-Coordinate	30.27158	Y-Coordinate	89.57793	Elevation (ft)	
Tested By	T. Whitaker	Checked By	L. Reese	Submitted By	L. Reese

Materials Finer than No. 200 Sieve - ASTM C 117 (Procedure A)

Original Dry Mass of Sample (g)	78.66
Dry Mass of Sample after Washing (g)	39.35
Material Finer than No. 200 Sieve by Washing (%)	49.97

Sieve Analysis - ASTM C 136

Mass of Sample (g)	Mass of Material > No. 4 Sieve (g)	USCS Group Name / Symbol																																																																																																																				
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Remarks: Samples collected approximately 2.5' to 5.0' below existing ground surface. Material exceeds the levee borrow material requirement for sand content.



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Sieve Analysis - ASTM C 117 and ASTM C 136

Laboratory	SoilTech Consultants		Test ID	040110-03	
USACE Contract Number	W912P8-10-C-0017		Contractor	Chapel Hill	
Project	Earthen Material Testing		Date	4/1/2010	
Source of Material	Pearlington Dirt Pit	Feature		Visual Description (ASTM D 2488)	Gray and brown sandy lean clay
Station	Pit	Offset		Lift Number	
X-Coordinate	30.27161	Y-Coordinate	89.57765	Elevation (ft)	
Tested By	T. Whitaker	Checked By	L. Reese	Submitted By	L. Reese

Materials Finer than No. 200 Sieve - ASTM C 117 (Procedure A)

Original Dry Mass of Sample (g)	107.14
Dry Mass of Sample after Washing (g)	44.83
Material Finer than No. 200 Sieve by Washing (%)	58.16

Sieve Analysis - ASTM C 136

Mass of Sample (g)	Mass of Material > No. 4 Sieve (g)	USCS Group Name / Symbol			
Sieve Designations		Mass Retained (g)	Percent Retained		Percent Finer by Mass (%)
Standard	Alternative		Partial	Total	
75	3				
50	2				
37.5	1 - 1/2				
25.0	1				
19.0	3/4				
12.5	1/2				
9.5	3/8				
4.75	No. 4				
Pan					
2.36	No. 8				
2.00	No. 10				
1.18	No. 16				
0.850	No. 20				
0.600	No. 30				
0.425	No. 40				
0.300	No. 50				
0.250	No. 60				
0.150	No. 100				
0.106	No. 140				
0.075	No. 200				
Pan					

Remarks: Samples collected approximately 2.5' to 5.0' below existing ground surface. Material exceeds the levee borrow material requirement for sand content.



**US Army Corps
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Sieve Analysis - ASTM C 117 and ASTM C 136

Laboratory	SoilTech Consultants	Test ID	040110-04
USACE Contract Number	W912P8-10-C-0017	Contractor	Chapel Hill
Project	Earthen Material Testing	Date	4/1/2010
Source of Material	Pearlington Dirt Pit	Feature	Visual Description (ASTM D 2488) Gray and brown fat clay, slightly s
Station	Pit	Offset	Lift Number
X-Coordinate	30.27166	Y-Coordinate	89.57725
Tested By	T. Whitaker	Checked By	L. Reese
		Submitted By	L. Reese

Materials Finer than No. 200 Sieve - ASTM C 117 (Procedure A)

Original Dry Mass of Sample (g)	85.85
Dry Mass of Sample after Washing (g)	10.20
Material Finer than No. 200 Sieve by Washing (%)	88.12

Sieve Analysis - ASTM C 136

Mass of Sample (g)	Mass of Material > No. 4 Sieve (g)	USCS Group Name / Symbol
Sieve Designations		
Standard	Alternative	Mass Retained (g)
75	3	
50	2	
37.5	1 - 1/2	
25.0	1	
19.0	3/4	
12.5	1/2	
9.5	3/8	
4.75	No. 4	
Pan		
2.36	No. 8	
2.00	No. 10	
1.18	No. 16	
0.850	No. 20	
0.600	No. 30	
0.425	No. 40	
0.300	No. 50	
0.250	No. 60	
0.150	No. 100	
0.106	No. 140	
0.075	No. 200	
Pan		

Remarks: Samples collected approximately 2.5' to 5.0' below existing ground surface.



**US Army Corps
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Moisture Content Determination - ASTM D 2216 (Method B)

Laboratory	SoilTech Consultants	Report Number	00017
USACE Contract Number	W912P8-10-C-0017	Contractor	Chapel Hill
Project	Earthen Materials Testing	Date	4/1/2010
Source of Material	Pearlington Dirt Pit	Feature	Visual Description (ASTM D 2488)
Date / Time In Oven	04/01/2010	Date / Time Out of Oven	04/02/2010
Tested By	T. Whitaker	Checked By	L. Reese
		Submitted By	L. Reese

Test ID	040110-01	040110-02	040110-03	040110-04
Retest Of Test ID				
Station	Pit	Pit	Pit	Pit
Offset				
Lift Number				
X-Coordinate	30	30	30	30
Y-Coordinate	90	90	90	90
Elevation (ft)				

a. Container / Lid Number	314	326	324	325
b. Wet Soil + Tare Mass (g)	146.46	137.58	156.35	155.81
c. Dry Soil + Tare Mass (g)	123.93	116.94	113.11	128.39
d. Water Mass (g)	22.53	20.64	43.24	27.42
e. Tare Mass (g)	22.71	22.62	22.14	22.17
f. Dry Soil Mass (g)	101.22	94.32	90.97	106.22
Moisture Content (%)	22.26	21.88	47.53	25.81
Optimum Moisture Content (%)				17.2
Difference from Opt. Moisture				8.61434758

Test ID				
Retest Of Test ID				
Station				
Offset				
Lift Number				
X-Coordinate				
Y-Coordinate				
Elevation (ft)				

a. Container / Lid Number				
b. Wet Soil + Tare Mass (g)				
c. Dry Soil + Tare Mass (g)				
d. Water Mass (g)				
e. Tare Mass (g)				
f. Dry Soil Mass (g)				
Moisture Content (%)				
Optimum Moisture Content (%)				
Difference from Opt. Moisture				

Remarks: Samples collected approximately 2.5' to 5.0' below existing ground surface.



US Army Corps
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Unified Soil Classification System - ASTM D 2487

Laboratory	SoilTech Consultants			Report ID	00017
USACE Contract no.	W912P8-10-C-0017			Contractor	Chapel Hill
Project	Earthen Materials Testing			Sample Date	04/01/2010
Testing Technician(s):	T. Whitaker		Checked by:	L. Reese	Submitted by:
					L. Reese
Test ID	040110-01	040110-02	040110-03	040110-04	
Source of material	Pearlington Dirt Pit	Pearlington Dirt Pit	Pearlington Dirt Pit	Pearlington Dirt Pit	
Station	Pit	Pit	Pit	Pit	
Offset					
Lift No					
X-Coord	30.27157	30.27158	30.27161	30.27166	
Y-Coord	89.57848	89.57793	89.57765	89.57725	
Feature					
Elevation					
Visual Description	own and gray lean clay with s	Gray and brown clayey sand	Gray and brown sandy lean clay	and brown fat clay, slightly sandy	
Est amt. ret. on #40 (%)	0			0	
Sample Air Dried?	No	Yes	Yes	No	
Liquid Limit (ASTM D 4318)					
Test Sequence 1	25	22	22	22	
a. Container Number	305	315	31	308	
b. Wet Soil + Tare Mass (g)	33.79	31.65	34.37	32.99	
c. Dry Soil + Tare Mass (g)	30.47	28.68	31.14	29.44	
d. Water Mass (g)	3.32	2.97	3.23	3.55	
e. Tare Mass (g)	22.50	22.48	22.33	22.6	
f. Dry Soil Mass (g)	7.97	6.2	8.81	6.84	
g. Moisture Content (%)	41.7	47.90322581	36.7	51.9005848	
Test Sequence 2	26	22	21	22	
a. Container Number	38	20	11	5	
b. Wet Soil + Tare Mass (g)	30.61	30.39	32.78	31.44	
c. Dry Soil + Tare Mass (g)	28.17	27.68	29.90	28.38	
d. Water Mass (g)	2.44	2.71	2.88	3.06	
e. Tare Mass (g)	22.26	22	22.03	22.43	
f. Dry Soil Mass (g)	5.91	5.68	7.87	5.95	
g. Moisture Content (%)	41.3	47.71126761	36.6	51.42857143	
Plastic Limit (ASTM D 4318)					
Test Sequence 1					
i. Container Number	304.0	34	1.0	9	
j. Wet Soil + Tare Mass (g)	28.42	28.55	28.75	28.23	
k. Dry Soil + Tare mass (g)	27.69	27.75	27.95	27.44	
l. Water Mass (g)	0.73	0.8	0.80	0.79	
m. Tare Mass (g)	22.40	22.13	21.89	22.14	
n. Dry Soil Mass (g)	5.29	5.62	6.06	5.3	
o. Moisture Content (%)	13.8	14.23487544	13.2	14.90566038	
Test Sequence 2					
i. Container Number	317.0	12	10.0	312	
j. Wet Soil + Tare Mass (g)	28.38	28.14	28.77	28.39	
k. Dry Soil + Tare mass (g)	27.63	27.35	28.05	27.56	
l. Water Mass (g)	0.75	0.79	0.72	0.83	
m. Tare Mass (g)	22.18	21.79	22.52	22.3	
n. Dry Soil Mass (g)	5.45	5.56	5.53	5.26	
o. Moisture Content (%)	13.8	14.20863309	13.0	15.77946768	
Liquid Limit (%)	42	47	36	51	
Plastic Limit (%)	14	14	13	15	
Plasticity Index (%)	28	33	23	36	
Gravel (#4) retained (%)					
Sand (#200) retained (%)	19.0	50.03	41.8	11.88	
Fines (minus #200) (%)	81.0	50.0	58.2	88.1	
Group Symbol	CL	SC	CL	CH	
Group Name	Lean clay with sand	Clayey Sand	Sandy lean clay	Fat clay	
Remarks:	Samples collected approximately 2.5' to 5.0' below existing ground surface.				



US Army Corps
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Moisture, Ash, and Organic Content Determination - ASTM D 2974 (Method C)

Laboratory	SoilTech Consultants		Report Number	00017	
USACE Contract Number	W912P8-10-C-0017		Contractor	Chapel Hill	
Project	Earthen Materials Testing		Date	4/1/2010	
Source of Material	Pearlington Dirt Pit	Feature			
Furnace Temperature	440 C	Furnace Used	Thermolyne 1285091041021	Visual Description (ASTM D 2488)	sand/gray and brown clayey sand/gray and brown sandy lean
Tested By	T. Whitaker	Checked By	L. Reese	Submitted By	L. Reese

Test ID	040110-01	040110-02	040110-03	040110-04	
Station	Pit	Pit	Pit	Pit	
Offset					
Lift Number					
X-Coordinate	30	30	30	30	
Y-Coordinate	90	90	90	90	
Elevation (ft)					

a. Ash Dish Container Number	1	2	3	4	
b. Oven Dried Soil + Tare Mass (g)	146.80	151.96	152.64	181.72	
c. Ash Dish Tare Mass (g)	82.53	74.45	76.00	76.05	
d. Dried Soil Mass (g)	64.27	77.51	76.64	105.67	
e. Ashed Soil+Tare Mass (g)	145.47	150.48	151.34	179.92	
f. Ashed Soil Mass (g)	62.94	76.03	75.34	103.87	
g. Ash Content (%)	97.93	98.09	98.30	98.30	
h. Organic Matter (%)	2.07	1.91	1.70	1.70	
i. Max. Allow. Organic Matter (%)	9.00	9.00	9.00	9.00	
Moisture Content	22.26	21.88	47.53	25.81	

Test ID					
Station					
Offset					
Lift Number					
X-Coordinate					
Y-Coordinate					
Elevation (ft)					

a. Ash Dish Container Number					
b. Oven Dried Soil + Tare Mass (g)					
c. Ash Dish Tare Mass (g)					
d. Dried Soil Mass (g)					
e. Ashed Soil+Tare Mass (g)					
f. Ashed Soil Mass (g)					
g. Ash Content (%)					
h. Organic Matter (%)					
i. Max. Allow. Organic Matter (%)					
Moisture Content					

Remarks: Samples collected approximately 2.5' to 5.0' below existing ground surface.

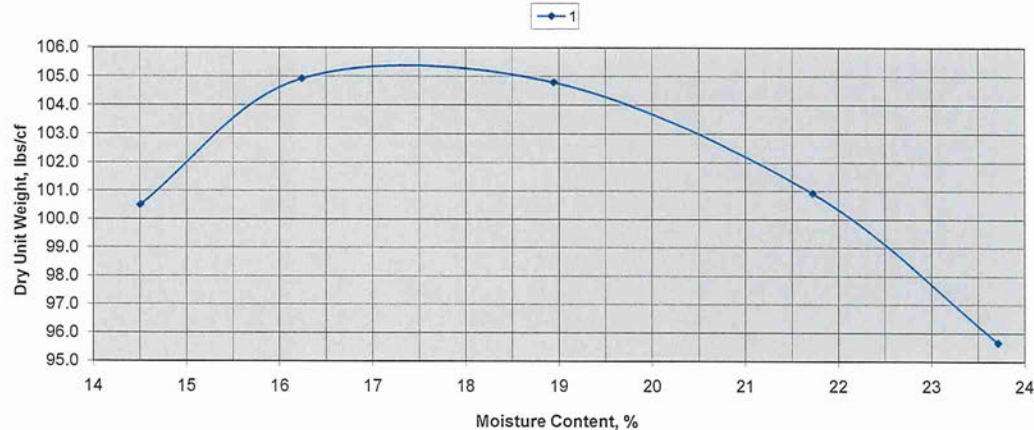


US Army Corps of Engineers

Compaction - Moisture Density Relationship - ASTM D 698

Laboratory	SoilTech Consultants		Test ID	040110-04	
USACE Contract Number	W912P8-10-C-0017		Contractor	Chapel Hill	
Project	Earthen Materials Testing		Date	4/1/2010	
Source of Material	Pearlington Dirt Pit	Feature		Visual Description (ASTM D 2488)	Gray and brown fat clay, slightly s
Station	Pit	Offset		Lift Number	
X-Coordinate	30.27166	Y-Coordinate	89.57725	Elevation (ft)	
Test Method	A	Preparation Method	Dry	As-Received Moisture Content	25.81
Hand / Mechanical Rammer	Hand	Specific Gravity	2.68	Specific Gravity Method: As Tested or Estimated	Estimated
Percent Retained - No. 4 Sieve		Percent Retained - 3/8" Sieve		ASTM D 3718 Correction - Yes/No	No
Percent Retained - 3/4" Sieve		Oversize Fraction			
Tested By	T. Whitaker	Checked By	L. Reese	Submitted By	L. Reese
Test Sequence Number	1	2	3	4	5
a. Mold Number	2-CM-1	2-CM-1	2-CM-1	2-CM-1	2-CM-1
b. Mass of Mold (g)	2209.0	2209.0	2209.0	2209.0	2209.0
c. Volume of Mold (cf)	0.0335	0.0335	0.0335	0.0335	0.0335
d. Mass of Wet Soil+Mold (g)	3955.3	4059.6	4100.5	4073.2	4005.2
e. Mass of Wet Soil (g)	1746.3	1850.6	1891.5	1864.2	1796.2
f. Wet Unit Weight (lbs/cf)	115.1	122.0	124.6	122.8	118.4
g. Container No.	71.00	200.00	102.00	15.00	62.00
h. Mass of Tare (g)	50.10	50.10	49.70	50.10	49.80
i. Mass of Wet Soil+Tare (g)	249.70	240.40	196.30	244.40	236.70
j. Mass of Dry Soil+Tare (g)	224.41	213.81	172.95	209.72	200.87
k. Mass of Water (g)	25.29	26.59	23.35	34.68	35.83
l. Mass of Dry Soil (g)	174.31	163.71	123.25	159.62	151.07
m. Moisture Content %	14.5	16.2	18.9	21.7	23.7
n. Dry Unit Weight (lbs/cf)	100.5	104.9	104.8	100.9	95.7

Compaction Curve



Test Results	
Compaction Curve Control No.	040110-04
Optimum Moisture Content (%)	14.9
Max. Dry Unit Weight (lbs/cf)	110.2
Classification of Sample	Fat clay
Liquid And Plastic Limits	
Liquid Limit	51
Plastic Limit	15
Plasticity Index	36
Symbol From Plastic Chart:	CH
% Passing 200	88.12
% Passing No. 4	
Dry Unit Weight Scale	
Min	85
Max	95
Moisture Content % Scale	
Min	15
Max	22
Change Graph Scale	

Remarks: Sample collected approximately 2.5' to 5.0' below existing ground surface.