GEOTECHNICAL INVESTIGATION
ORLEANS LEVEE DISTRICT
LONDON AVENUE OUTFALL CANAL
OLB PROJECT NO. 2049-0269
NEW ORLEANS, LOUISIANA

VOLUME II

FOR
THE BOARD OF LEVEE COMMISSIONERS OF THE ORLEANS LEVEE DISTRICT
NEW ORLEANS, LOUISIANA

BURK & ASSOCIATES, INC.
ENGINEERS, PLANNERS & ENVIRONMENTAL SCIENTISTS
NEW ORLEANS, LOUISIANA

By
Eustis Engineering Company
Metairie, Louisiana

4 March 1986

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APPENDIX A

Geotechnical Investigation
London Avenue Canal
Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269
New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District
New Orleans, Louisiana

Burk & Associates, Inc., Engineers, Planners & Environmental Scientists
New Orleans, Louisiana

LOCATION OF BORINGS

Boring Number	Station Number	Location
B-1 B-36	0+85	Levee Crown
B-2 B-37	7+60	Levee Crown
B-3 B-38	11+60	Levee Crown
B-4 B-39	14+70	Levee Crown
B-5	19+60	Levee Crown
B-6	24+60	Levee Crown
B-7	29+60	Levee Crown
B-8	34+60	Levee Crown
B-9	39+60	Levee Crown
B-10	44+60	Levee Crown
B-11	50+35	Levee Crown
B-12	55+00	Levee Crown
B-13	60+00	Levee Crown
B-14	65+00	Levee Crown
B-15	69+85	Levee Crown
B-16	74+75	Levee Crown
B-17	79+75	Levee Crown
B-18	84+75	Levee Crown
B-19	86+35	Levee Crown
B-20	89+75	Levee Crown
B-21	94+75	Levee Crown
B-22	99+75	Levee Crown
B-23	101+20	Levee Crown
B-24	104+75	Levee Crown
B-25	109+75	Levee Crown
B-26	114+75	Levee Crown
B-27	121+35	Levee Toe
B-28	124+75	Levee Toe
B-29	127+50	Levee Toe
B-30	134+00	Levee Toe
B-31	139+00	Levee Toe
B-32	143+00	Levee Toe
B-33	149+00	Levee Toe

I Reach
II Reach
III Reach
IV Reach

Geotechnical Investigation
London Avenue Canal
Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269
New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District
New Orleans, Louisiana

Burk & Associates, Inc., Engineers, Planners & Environmental Scientists
New Orleans, Louisiana

LOCATION OF BORINGS (Cont'd) (Sheet 2 of 3)

Boring Number	Station Number	Location
B-34	154+00	Levee Toe
B-35	159+00	Levee Toe
B-36	1+95	Levee Crown
B-37	7+10	Levee Crown
B-38	11+60	Levee Crown
B-39	13+70	Levee Crown
B-40	21+40	Levee Crown
B-41	24+60	Levee Crown
B-42	29+60	Levee Crown
B-43	34+60	Levee Crown
B-44	39+60	Levee Crown
B-45	44+60	Levee Crown
B-46	50+65	Levee Crown
B-47	55+00	Levee Crown
B-48	60+00	Levee Crown
B-49	65+00	Levee Crown
B-50	69+85	Levee Crown
B-51	74+75	Levee Crown
B-52	79+75	Levee Crown
B-53	84+75	Levee Crown
B-54	89+75	Levee Crown
B-55	94+75	Levee Crown
B-56	99+75	Levee Crown
B-57	102+95	Levee Crown TOE?
B-58	104+75	Levee Crown
B-59	109+75	Levee Crown
B-60	114+75	Levee Crown
B-61	119+75	Levee Crown
B-62	124+75	Levee Crown → TOE?
B-63	128+60	Levee Crown
B-64	134+00	Levee Toe
B-65	139+00	Levee Toe
B-66	143+00	Levee Toe
B-67	149+00	Levee Toe
B-68	154+00	Levee Toe

Geotechnical Investigation
London Avenue Canal
Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269
New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District
New Orleans, Louisiana

Burk & Associates, Inc., Engineers, Planners & Environmental Scientists
New Orleans, Louisiana

LOCATION OF BORINGS (Cont'd) (Sheet 3 of 3)

Boring Number	Station Number	Location
B-69	159+00	Levee Toe
B-70	Not Taken	Canal Centerline
B-71	Not Taken	Canal Centerline
B-72	Not Taken	Canal Centerline
B-73	19+60	Canal Centerline
B-74	24+60	Canal Centerline
B-75	29+60	Canal Centerline
B-76	34+60	Canal Centerline
B-77	39+60	Canal Centerline
B-78	44+60	Canal Centerline
B-79	50+35	Canal Centerline
B-80	55+00	Canal Centerline
B-81	60+00	Canal Centerline
B-82	65+00	Canal Centerline
B-83	69+85	Canal Centerline
B-84	74+75	Canal Centerline
B-85	79+75	Canal Centerline
B-86	86+35	Canal Centerline
B-87	89+75	Canal Centerline
B-88	94+75	Canal Centerline
B-89	99+75	Canal Centerline
B-90	104+75	Canal Centerline
B-91	109+75	Canal Centerline
B-92	114+75	Canal Centerline
B-93	121+35	Canal Centerline
B-94	124+75	Canal Centerline
B-95	128+60	Canal Centerline
B-96	134+00 (East)	Canal Centerline
B-97	139+00 (East)	Canal Centerline
B-98	145+00 (East)	Canal Centerline
B-99	147+00 (East)	Canal Centerline
B-100	153+00 (East)	Canal Centerline
B-101	159+00 (East)	Canal Centerline

NOTE: Locations of canal borings is approximate.

LOG OF BORING

EUSTIS ENGINEERING COMPANY Sheet 1 of 2
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

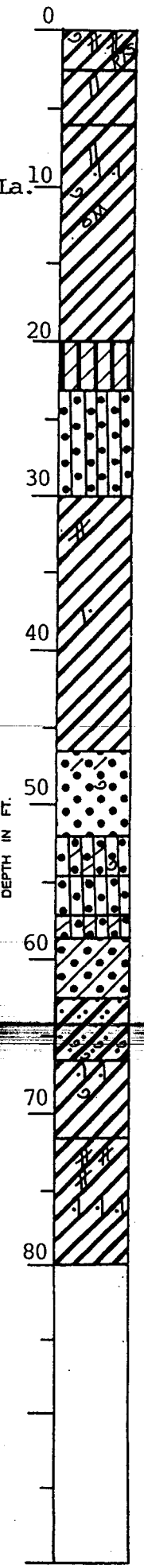
Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 1 Soil Technician A. Croal, Jr. Date 3 October 1985

Ground Elev. +4.0 NGVD Datum Based on Geological Profile Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	SAMPLE Depth — Feet To	DEPTH STRATUM Feet From	DEPTH STRATUM Feet To	VISUAL CLASSIFICATION 0485	*STANDARD PENETRATION TEST	
1	1.7	2.5	0.0	2.5	Very stiff gray & brown clay w/shells, brick fragments, clayey silt pockets & grass roots		
2	4.7	5.5	2.5	6.0	Soft tan & gray clay w/silt pockets		
3	7.7	8.5	6.0		Medium stiff gray clay w/silt pockets & few brick fragments		
4	10.7	11.5			Medium stiff gray clay w/sandy silt pockets, shells & brick fragments		
5	13.7	14.5			Medium stiff gray clay w/shells, brick fragments & organic matter		
6	18.2	19.0		20.0	Medium stiff to stiff gray clay w/sandy silt pockets, trace of organic matter & brick fragments		
7	22.2	23.0	20.0	23.0	Loose gray clayey silt		
8	23.0	24.5	23.0	-19	Medium dense gray silty sand	5	20
9	25.5	27.0			Ditto	5	23
10	28.0	29.5		30.0	Ditto	7	24
11	33.2	34.0	30.0		Medium stiff gray clay w/clayey silt lenses		
12	38.2	39.0			Medium stiff gray clay		
13	43.2	44.5		46.5	Medium stiff gray clay w/clayey silt & few silty sand lenses		
14	48.2	49.0	46.5	52.0	Loose gray fine sand w/clay pockets & shell fragments		
					(Continued)		



*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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CLAY SILT SAND HUMUS

Predominant type shown heavy. Modifying type shown light.

Remarks:

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 1 (Cont'd) Soil Technician A. Croal, Jr. Date 3 October 1985

Ground Elev. _____ Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
15	53.2	54.0	52.0	54.5	Loose gray silty sand w/clay pockets, lenses & shell fragments		
16	'54.5	56.0	54.5	57.0	Medium dense gray silty sand	5	25
17	57.0	58.5	57.0	58.5	Loose gray silty sand w/clay layers	1	7
18	59.5	61.0	58.5	62.5	Very loose gray clayey sand	2	3
19	63.2	64.0	62.5	66.5	Soft gray sandy clay w/sand pockets, thin shell layers & shell fragments		
20	68.2	69.0	66.5	71.5	Medium stiff gray clay w/sandy silt pockets & shell fragments		
21	73.2	74.0	71.5		Stiff greenish-gray clay w/clayey silt pockets & lenses		
22	76.7	77.5		80.0	Stiff greenish-gray clay w/clayey silt lenses, layers & sandy silt layers		

DEPTH IN FT.

*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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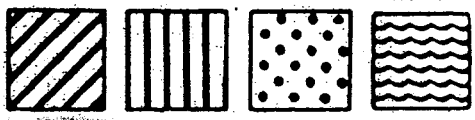
Remarks: _____



Predominant type shown heavy. Modifying type shown light.

LOG OF BORING

EUSTIS ENGINEERING COMPANY Sheet 1 of 2
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 2 **Soil Technician** George Hardee **Date** 5 October 1985

Ground Elev. +4.4 **Datum** _____ **Gr. Water Depth** See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	7760 VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	1.5	2.5	0.0		Stiff tan & gray clay w/sandy silt		
					pockets & shells		
2	4.5	5.5		6.0	Stiff tan & gray clay w/silt pockets		
3	7.5	8.5	6.0	9.0	Medium stiff brown & gray clay		
					w/clayey silt pockets		
4	10.5	11.5	9.0		Medium stiff to soft tan & gray silty		
					clay w/clay pockets		
5	13.5	14.5		16.0	Soft gray & tan silty clay w/clay		
					layers		
6	18.5	19.5	16.0	20.0	Medium stiff gray clay w/organic matter		
					& silty clay layers		
7	23.0	24.0	20.0	24.5	Soft gray silty clay w/sandy silt		
					lenses & layers		
8	29.0	29.5	24.5	29.5	Loose gray silty sand w/clay layers		
9	33.5	34.5	29.5		Soft gray clay w/clayey silt lenses		
					& layers		
10	38.5	39.5			Ditto		
11	43.5	44.5		46.0	Medium stiff gray clay w/clayey silt		
					lenses & layers		
12	48.5	49.5	46.0	52.5	Loose gray clayey sand w/shells & clay		
					pockets		
13	53.5	54.5	52.5	56.0	Very soft gray sandy clay w/sand		
					pockets & lenses & shells		
14	57.0	58.0	56.0		Medium dense gray fine sand w/silt		
					& shells		
15	58.5	60.0		60.5	Medium dense gray fine sand	8	25

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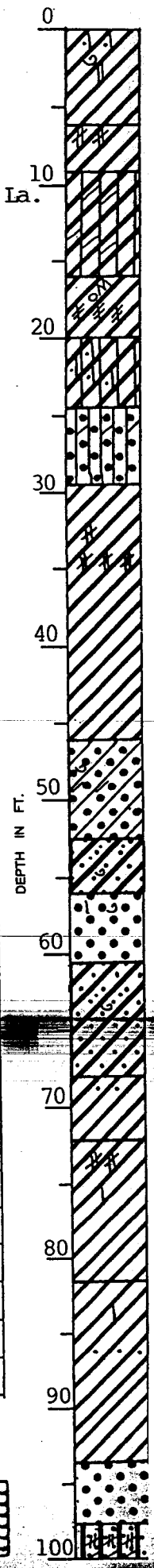
Remarks: _____



CLAY SILT SAND HUMUS

Predominant type shown heavy. Modifying type shown light.

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana
For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 2 (Cont'd) Soil Technician George Hardee Date 5 October 1985
Ground Elev. _____ Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
16	61.0	62.5	60.5		Medium stiff gray sandy clay	3	4
17	63.5	64.5		68.0	Medium stiff gray sandy clay w/sand pockets & shell fragments		
18	68.5	69.5	68.0	72.0	Medium stiff gray & brown clay w/sand pockets		
19	73.5	74.5	72.0		Very stiff gray & tan clay w/clayey silt pockets		
20	78.5	79.5		81.5	Very stiff gray & tan clay w/silt lenses		
21	83.5	84.5	81.5		Stiff greenish-gray & tan clay w/silt lenses		
22	88.5	89.5			Ditto		
23	92.5	93.5		93.5	Stiff greenish-gray & tan clay w/sand layers		
24	95.0	96.5	93.5	97.5	Dense gray fine sand	12	40
25	98.5	100.0	97.5	100.0	Medium compact gray sandy silt w/clayey silt & clay layers	6	30

DEPTH IN FT.

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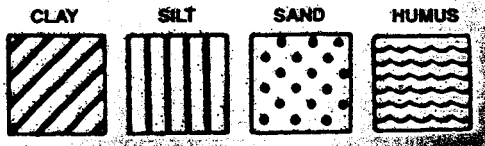
Remarks: _____



Predominant type shown heavy. Modifying type shown light.

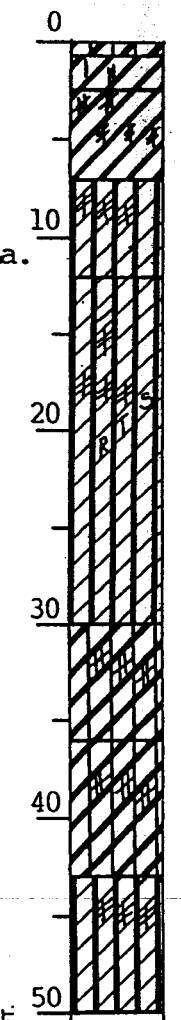
LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana
For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 3 Soil Technician George Hardee Date 5 October 1985
Ground Elev. 5.3 NGVD Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	11+60 VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
			0.0	0.7	Medium stiff gray & tan silty clay		
					w/roots & shells		
1	1.5	2.5	0.7	2.5	Very stiff tan & gray clay w/silt		
					lenses & pockets		
2	4.5	5.5	2.5	7.0	Stiff tan & gray clay w/clayey silt		
					pockets & silty clay layers		
3	7.5	8.5	7.0		Loose tan & gray clayey silt w/silty		
					clay layers		
4	10.5	11.5		12.0	Loose tan & gray clayey silt		
5	13.5	14.5	12.0		Very loose to loose gray clayey silt		
					w/clay & silty clay lenses		
6	18.5	19.5			Very loose to loose gray clayey silt		
					w/silty clay layers		
7	23.5	24.5			Very loose to loose gray clayey silt		
					w/roots & silty clay layers		
8	28.5	29.5		30.0	Very loose to loose gray clayey silt		
					w/silty clay layers		
9	33.5	34.5	30.0	36.0	Soft gray silty clay w/clayey silt		
					layers		
10	38.5	39.5	36.0	43.0	Soft gray silty clay w/clayey silt		
					layers		
11	43.5	44.5	43.0		Medium compact gray clayey silt		
					w/silty clay layers		
12	48.5	49.5		50.0	Ditto		



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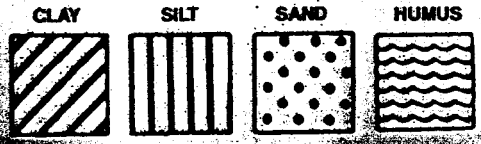

*Predominant type shown heavy. Modifying type shown light.

Remarks: _____

LOG OF BORING

EUSTIS ENGINEERING COMPANY Sheet 1 of 2
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 4 Soil Technician George Hardee Date 7 October 1985

Ground Elev. 4.2 NGVD Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	14+70 VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
			0.0	0.2	Asphalt & gravel		
1	1.5	2.5	0.2		Stiff tan & gray silty clay w/clay		
					pockets, brick fragments & clayey		
					silt layers		
2	4.5	5.5		6.0	Stiff tan & gray silty clay w/clayey		
					silt layers & some gravel		
3	7.5	8.5	6.0	9.0	Medium stiff tan & gray clay w/clayey		
					silt pockets		
4	10.5	11.5	9.0		Soft gray & tan silty clay w/clayey		
					silt layers & lenses		
5	13.5	14.5			Soft gray & tan silty clay w/clayey		
					silt layers & roots		
6	17.0	18.0		19.5	Soft gray & tan silty clay w/roots &		
					clayey silt layers		
7	20.5	21.0	19.5		Soft gray silty clay w/roots, clayey		
					silt lenses & clay pockets		
8	23.5	24.5			Very soft gray silty clay w/clayey silt		
					& clay lenses		
9	28.5	29.5		31.5	Soft gray silty clay w/clayey silt &		
					clay layers		
10	33.5	34.5	31.5		Very loose gray clayey silt w/silty		
					clay lenses & pockets		
11	38.5	39.5			Loose gray clayey silt w/clay & silty		
					clay layers		
12	43.5	44.5		46.0	Loose gray clayey silt w/clay layers		
					(Continued)		

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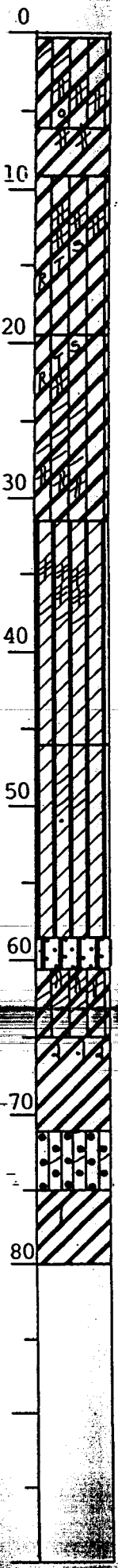
Remarks: _____

Predominant type shown heavy. Modifying type shown light.



LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 4 (Cont'd) Soil Technician George Hardee Date 7 October 1985

Ground Elev. _____ Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
13	48.5	49.5	46.0		Medium compact gray clayey silt		
					w/alternating clay lenses		
14	53.0	54.0			Ditto		
15	57.5	58.5		58.5	Medium compact gray clayey silt w/clay		
					pockets & trace of sand		
16	58.5	60.0	58.5	60.5	Medium compact gray sandy silt	5	22
17	61.0	62.5	60.5		Medium stiff gray silty clay	2	6
18	63.5	65.0		65.0	Medium stiff gray silty clay w/clayey	3	14
					silt & clay layers		
19	68.5	69.5	65.0	71.0	Stiff gray clay w/sandy silt layers		
20	74.5	75.0	71.0	75.0	Medium dense gray silty sand w/clay		
					layers		
21	78.5	79.5	75.0	80.0	Medium stiff greenish-gray & tan clay		
					w/silt lenses		

DEPTH IN FT.

*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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Remarks: _____

Predominant type shown heavy. Modifying type shown light.

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

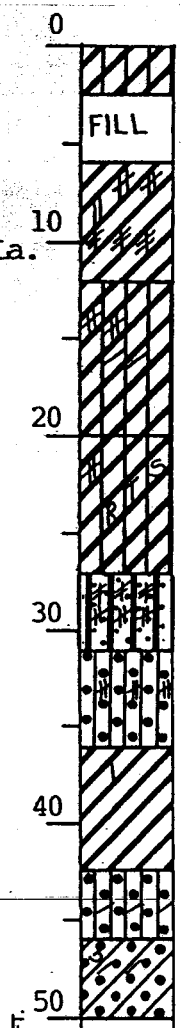
Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 5 Soil Technician George Hardee Date 8 October 1985

Ground Elev. 4.7 NGVD Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	19760 VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	1.5	2.5	0.0	2.5	Medium stiff tan & gray silty clay w/cinders		
2	5.0	5.5	2.5	6.0	Medium compact miscellaneous fill (cinders, brick fragments & clay pockets)		
3	7.5	8.5	6.0		Stiff tan & gray clay w/clayey silt pockets		
4	10.5	11.5		12.0	Stiff tan & gray clay w/silt pockets & silty clay layers		
5	13.5	14.5	12.0		Soft tan & gray silty clay w/clayey silt pockets		
6	18.5	19.5		20.0	Soft tan & gray silty clay w/clay pockets		
7	23.5	24.5	20.0	27.0	Soft gray silty clay w/clayey silt lenses & roots		
8	28.5	29.5	27.0	31.0	Loose gray sandy silt w/silty clay & clayey silt layers		
9	33.5	34.5	31.0	36.0	Loose gray silty sand w/clayey silt layers		
10	38.5	39.5	36.0	42.5	Medium stiff dark gray clay w/silt lenses		
11	43.5	44.5	42.5	46.0	Loose to medium dense gray silty sand w/clay layers		
12	49.0	49.5	46.0	50.0	Loose gray clayey sand w/shells & clay pockets		



*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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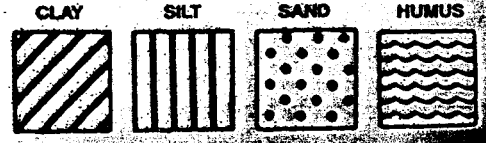


Predominant type shown heavy. Modifying type shown light.

Remarks: _____

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements

Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

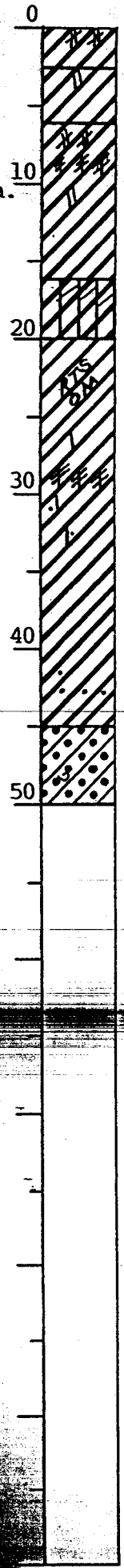
For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.

Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 6 Soil Technician George Hardee Date 7 October 1985

Ground Elev. 6.0 Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	24+60 VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	1.5	2.5	0.0	2.5	Stiff tan & gray clay w/clayey silt pockets		
2	4.5	5.5	2.5	6.0	Stiff tan & gray clay w/silt pockets		
3	7.5	8.5	6.0		Medium stiff tan & gray clay w/clayey silt pockets & silty clay layers		
4	10.5	11.5			Medium stiff tan & gray clay w/silt pockets		
5	13.5	14.5		16.0	Ditto		
6	18.5	19.5	16.0	20.0	Medium stiff tan & gray silty clay w/clay layers		
7	23.5	24.5	20.0		Soft gray clay w/roots & trace of organic matter		
8	28.5	29.5			Soft gray clay w/silt lenses & silty clay layers		
9	33.5	34.5			Soft gray clay w/sandy silt & silty sand lenses		
10	38.5	39.5			Soft gray clay w/silt lenses		
11	43.5	44.5		45.0	Soft gray clay w/sand lenses & layers		
12	48.5	49.5	45.0	50.0	Loose gray clayey sand w/shells		



*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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CLAY SILT SAND HUMUS

Predominant type shown heavy. Modifying type shown light.

Remarks: _____

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 7 Soil Technician George Hardee Date 8 October 1985

Ground Elev. 6.2 NGVD Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	29760 VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	1.5	2.5	0.0		Stiff tan & gray clay w/clayey silt		
					pockets & gravel		
2	4.5	5.5		6.0	Stiff tan & gray clay w/silt pockets		
3	7.5	8.5	6.0	9.5	Medium stiff gray silty clay w/organic		
					matter & clay layers		
4	10.5	11.5	9.5		Medium stiff gray & tan silty clay		
5	13.5	14.5			Medium stiff tan & gray silty clay		
					w/silt pockets		
6	18.5	19.5		21.0	Medium stiff tan & gray silty clay		
					w/silty clay layers		
7	23.5	24.5	21.0	24.5	Medium stiff gray clay w/roots &		
					organic matter		
8	28.5	29.5	24.5		Soft gray clay w/silt lenses		
9	33.5	34.5			Soft gray clay w/silty sand lenses &		
					layers		
10	38.5	39.5			Ditto		
11	43.5	44.5	43.0		Loose gray silty sand w/clay pockets		
					& shells		
12	48.5	49.5		50.0	Ditto		

*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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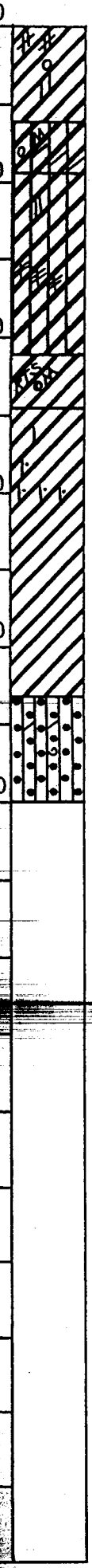
Remarks: _____

Predominant type shown heavy. Modifying type shown light.



LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

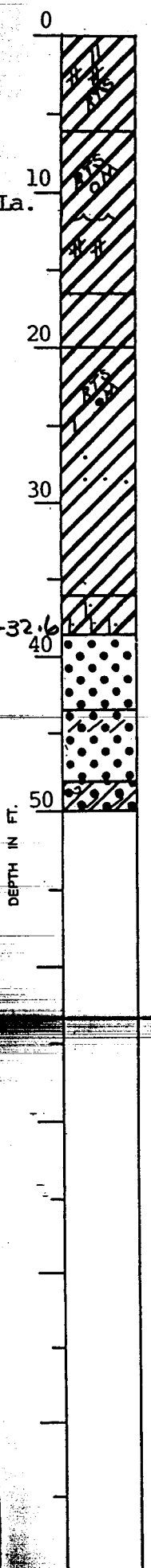
Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 8 Soil Technician George Hardee Date 8 October 1985

Ground Elev. 5.9 NGVD Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	3460 VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	1.5	2.5	0.0		Stiff gray & brown clay w/silt pockets		
2	4.5	5.5		6.0	Stiff gray & brown clay w/clayey silt		
					pockets & roots		
3	8.5	9.0	6.0		Medium stiff gray & tan clay w/roots		
					& organic matter		
4	11.0	11.5			Medium stiff gray & tan clay w/roots		
					& humus pockets		
5	13.5	14.5		16.5	Medium stiff gray & tan clay w/clayey		
					silt pockets & large roots		
6	18.5	19.5	16.5	20.0	Stiff gray & tan clay		
7	23.5	24.5	20.0		Soft gray clay w/roots & organic matter		
8	28.5	29.5			Soft gray clay w/silt lenses		
9	33.5	34.5		36.0	Soft gray clay w/sand lenses & layers		
10	37.0	38.0	36.0	38.5	Soft gray clay w/silty sand lenses &		
					layers		
11	38.5	40.0	38.5		Medium dense gray fine sand	7	25
12	41.0	42.5		43.5	Ditto	8	29
13	44.0	45.5	43.5	48.0	Very loose gray fine sand w/clay layers	2	4
14	48.5	50.0	48.0	50.0	Very loose gray clayey sand w/shells	1	1
					& clay pockets		



*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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CLAY SILT SAND HUMUS

Predominant type shown heavy. Modifying type shown light.

Remarks: _____

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

-12

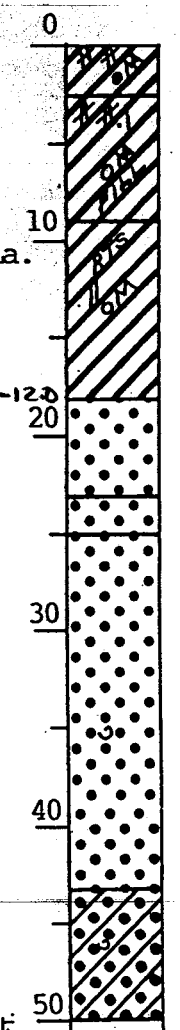
Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 9 Soil Technician George Hardee Date 9 October 1985

Ground Elev. 6.0 NGVD Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	39+60 VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	1.5	2.5	0.0	2.5	Medium stiff tan & gray clay w/clayey		
					silt pockets & organic matter		
2	4.5	5.5	2.5		Medium stiff gray & tan clay w/clayey		
					silt pockets, sandy silt lenses &		
					organic matter		
3	7.5	8.5		9.0	Medium stiff gray & tan clay w/clayey		
					silt pockets, sandy silt lenses &		
					organic matter (fill)		
4	10.5	11.5	9.0		Medium stiff gray clay w/roots		
5	13.5	14.5			Medium stiff gray clay w/silt pockets		
6	17.0	18.0		18.0	Soft gray clay w/roots & organic matter		
7	18.5	20.0	18.0		Medium dense gray fine sand	2	16
8	21.0	22.5		23.0	Ditto	5	17
9	23.5	25.0	23.0	25.0	Dense gray fine sand	9	41
10	26.0	27.5	25.5		Medium dense gray fine sand	7	19
11	28.5	30.0			Ditto	8	24
12	33.5	35.0			Ditto	5	24
13	38.5	40.0		43.0	Medium dense gray fine sand w/shells	4	16
14	43.5	45.0	43.0		Loose gray clayey sand w/shells	2	2
15	49.5	50.0		50.0	Ditto		



*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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CLAY SILT SAND HUMUS

Predominant type shown heavy. Modifying type shown light.

Remarks: _____

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 10 Soil Technician George Hardee Date 9 October 1985

Ground Elev. 6.1 NGVD Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	4460 VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	1.5	2.5	0.0	2.5	Stiff tan & gray clay w/sand pockets,		
					shells & organic matter		
2	4.5	5.5	2.5		Medium stiff gray & tan clay w/silt		
					pockets & organic matter		
3	7.5	8.5			Soft gray & tan clay w/organic matter		
					& roots (fill)		
4	10.5	11.5			Medium stiff gray & tan clay w/roots		
5	13.5	14.5		15.5	Soft gray & tan clay w/soft clay		
					pockets, silt pockets & roots		
6	16.0	17.5	15.5		Dense gray fine sand	7	38
7	18.5	20.0			Ditto	9	44
8	21.0	22.5		23.0	Ditto	3	40
9	23.5	25.0	23.0		Medium dense gray fine sand	7	30
10	28.5	30.0		33.0	Medium dense gray fine sand w/clay	7	23
					layers		
~~11~~	~~33.5~~	~~35.0~~	~~33.0~~	~~37.0~~	~~Loose gray fine sand w/clay layers~~	~~7~~	~~8~~
12	38.5	40.0	37.0	43.0	Dense gray fine sand w/clay layers	10	32
13	43.5	45.0	43.0	47.5	Loose gray fine sand w/clay layers	2	8
14	48.5	50.0	47.5	50.0	Medium stiff gray clay w/sand pockets		
			-41.4		& shells		

*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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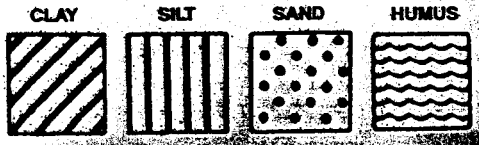
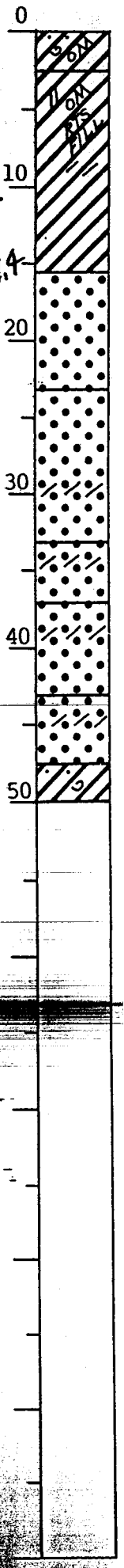
Remarks: _____



Predominant type shown heavy. Modifying type shown light.



LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Sheet 1 of 2

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 11 Soil Technician J. R. Eustis Date 9 October 1985

Ground Elev. 6.4 NGVD Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	50735 VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	2.0	2.5	0.0		Very stiff gray & tan clay w/silty clay		
					layers & small roots (fill)		
2	5.0	5.5			Stiff to very stiff gray & tan clay		
					w/clayey sand pockets & lenses &		
					trace of gravel (fill)		
3	8.0	8.5		9.0	Stiff gray & tan clay w/sand pockets		
					& lenses & wood (fill)		
4	11.0	11.5	9.0	12.0	Medium stiff gray clay w/silt pockets		
					& lenses, wood & pockets of organic		
					matter		
5	13.5	14.0	12.0	15.0	Soft to medium stiff gray clay w/much		
					wood		
6	15.0	15.5	15.0	15.5	Loose gray fine sand w/clay layers		
7	15.5	17.0	15.5	17.5	Very dense gray fine sand	6	57
8	18.0	19.5	17.5	20.0	Dense gray fine sand	12	45
9	20.5	22.0	20.0		Very dense gray fine sand	10	50=11"
10	23.5	25.0			Very dense gray fine sand w/few shell	11	50=11"
					fragments		
11	28.5	30.0		33.0	Very dense gray fine sand	19	50
12	33.5	35.0	33.0		Dense gray fine sand w/many shell	7	32
					fragments		
13	38.5	40.0		43.0	Ditto	12	46
14	43.5	45.0	43.0	48.0	Very dense gray fine sand	30	50=6"
15	48.5	50.0	48.0	50.0	Loose gray clayey sand w/clay layers	11	8
			-43.6		& shell fragments		
					(Continued)		

*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to start 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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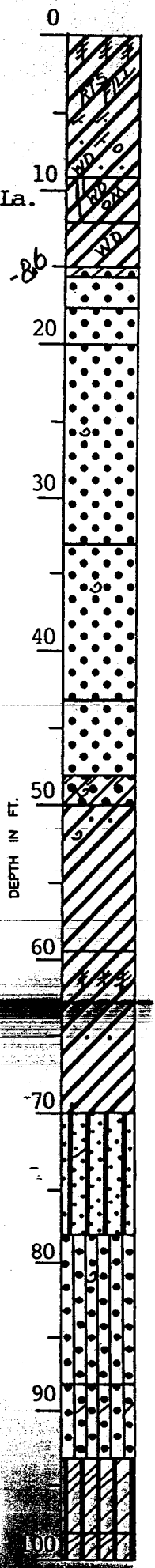
Remarks: _____

Predominant type shown heavy. Modifying type shown light.



LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 11 (Cont'd) Soil Technician J. R. Eustis Date 9 October 1985

Ground Elev. _____ Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
16	54.0	54.5	50.0		Stiff gray clay w/sand pockets & few shell fragments		
17	59.0	59.5		59.5	Medium stiff gray clay w/sand pockets & few shell fragments		
18	64.0	64.5	59.5		Very stiff greenish-gray & tan clay w/silty clay layers		
19	69.0	69.5		70.0	Stiff greenish-gray & tan clay w/sand lenses & pockets		
20	72.5	73.0	70.0		Medium compact tan sandy silt w/few clay lenses		
21	73.5	75.0		78.0	Ditto	8	25
22	78.5	80.0	78.0		Dense gray silty fine sand w/trace of shell fragments	12	46
23	83.5	85.0		88.0	Ditto	7	34
24	88.5	90.0	88.0	93.0	Medium dense gray silty fine sand w/clay layers	20	27
25	93.5	95.0	93.0	98.0	Compact gray clayey silt w/clay layers	4	33
26	98.5	100.0	98.0	100.0	Medium compact gray clayey silt w/clay layers	5	14

DEPTH IN FT.

*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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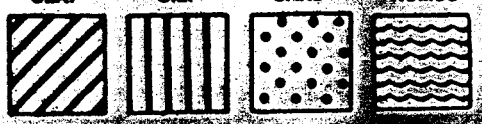
CLAY SILT SAND HUMUS



Predominant type shown heavy. Modifying type shown light.

Remarks: _____

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

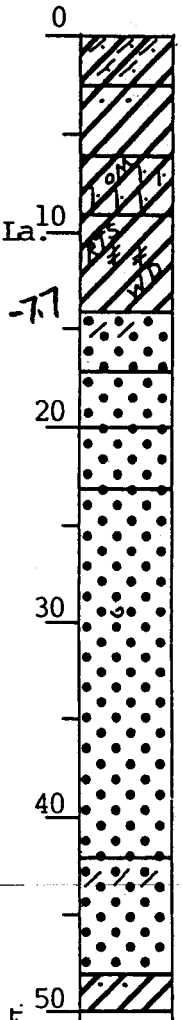
Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 12 Soil Technician George Hardee Date 17 October 1985

Ground Elev. 6.3 NGVD Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	SS+00 VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	1.5	2.5	0.0	2.5	Soft gray & tan clay w/clayey sand layers & pockets		
2	4.5	5.5	2.5	6.0	Stiff gray & tan clay w/large sand pockets		
3	7.5	8.5	6.0	9.0	Medium stiff gray & tan clay w/organic matter, silty sand layers & pockets		
4	11.5	12.0	9.0	14.0	Medium stiff gray clay w/roots & silty clay pockets & wood		
5	14.5	15.0	14.0		Dense gray fine sand w/clay pockets		
6	15.0	16.5		17.0	Dense gray fine sand	2	46
7	17.5	19.0	17.0	20.0	Very dense gray fine sand	19	50=10"
8	20.5	22.0	20.0	23.0	Dense gray fine sand	9	36
9	23.5	25.0	23.0		Very dense gray fine sand w/shells	16	50=11"
10	28.5	30.0			Ditto	15	50=10"
11	33.5	35.0			Very dense gray fine sand	15	50=11"
12	38.5	40.0		42.0	Very dense gray fine sand w/shells	10	50=10"
13	43.5	45.0	42.0	48.0	Dense gray fine sand w/clay layers	6	45
14	48.5	50.0	48.0	50.0	Soft gray clay w/sand pockets	1	2
			-41.7				



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CLAY SILT SAND HUMUS

Predominant type shown heavy, modifying type shown light.

Remarks: _____

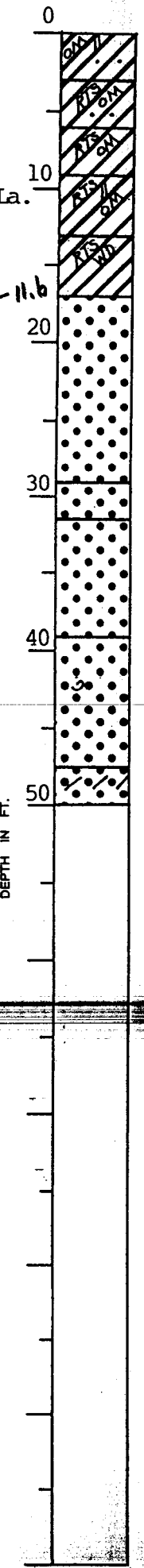
LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana
For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 13 Soil Technician George Hardee Date 17 October 1985
Ground Elev. 5.4 NGVD Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	60+00 VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	1.5	2.5	0.0	3.0	Medium stiff gray & tan clay w/organic matter & silt & sand pockets		
2	4.5	5.5	3.0	6.0	Medium stiff gray & tan clay w/roots, organic matter & sand pockets		
3	7.5	8.5	6.0	9.0	Soft gray clay w/roots & organic matter		
4	10.5	11.5	9.0	13.0	Soft dark gray clay w/roots, silt pockets & organic matter		
5	14.5	15.0	13.0		Soft gray & tan clay w/roots & wood		
6	16.0	17.0		17.0	Soft gray & tan clay w/large roots & decayed wood		
7	17.0	18.5	17.0		Medium dense gray fine sand	5	22
8	20.0	21.5			Ditto	6	21
9	23.5	25.0		29.0	Ditto	7	29
10	28.5	30.0	29.0	31.5	Dense gray fine sand	8	32
11	33.5	35.0	31.5	39.0	Medium dense gray fine sand	8	27
12	38.5	40.0	39.0		Dense gray fine sand w/shell fragments		
13	43.5	45.0		47.5	Dense gray fine sand	8	31
14	48.5	50.0	47.5	50.0	Loose gray fine sand w/clay layers	3	6



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Remarks: _____

CLAY SILT SAND HUMUS

Predominant type shown heavy. Modifying type shown light.

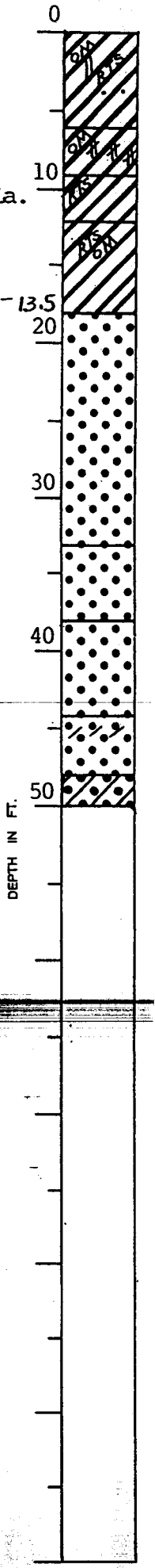
LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana
For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 14 Soil Technician George Hardee Date 17 October 1985
Ground Elev. 4.5 NGVD Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	65+00 VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	2.0	2.5	0.0		Medium stiff gray & tan clay w/organic		
					matter & silt pockets		
2	4.5	5.5		6.0	Medium stiff gray & tan clay w/organic		
					matter, roots & sand pockets		
3	7.5	8.5	6.0	9.0	Medium stiff dark gray clay w/organic		
					matter & clayey silt layers		
4	11.5	12.0	9.0	12.0	Medium stiff gray clay w/large roots		
5	13.5	14.5	12.0		Soft gray & tan clay w/roots		
6	17.0	18.0		18.0	Soft gray clay w/roots & organic matter		
7	18.0	19.5	18.0		Medium dense gray fine sand	3	11
8	21.0	22.5			Ditto	3	18
9	23.5	25.0			Ditto	4	19
10	28.5	30.0		33.0	Ditto	6	24
11	33.5	35.0	33.0	38.0	Dense gray fine sand	14	38
12	38.5	40.0	38.0	44.0	Very dense gray fine sand	15	50=9"
13	43.5	45.0	44.0	48.0	Medium dense gray fine sand w/clay	12	21
					layers		
14	48.5	50.0	48.0	50.0	Very loose gray clayey sand	1	3



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Remarks: _____

CLAY SILT SAND HUMUS

Predominant type shown heavy, modifying type shown light.

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Sheet 1 of 2

Name of Project: London Avenue Canal, Levee and Floodwall Improvements

Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

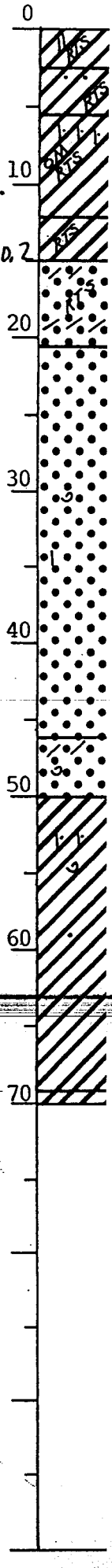
For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.

Burk & Associates, Inc., New Orleans, Louisiana

Boring No. WEST 15 Soil Technician A. Croal, Jr. Date 17 October 1985

Ground Elev. 4.8 NGVD Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	69+85 VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	1.7	2.5	0.0	2.5	Medium stiff tan & gray clay w/silt pockets & grass roots		
2	4.7	5.5	2.5	5.5	Medium stiff tan & gray clay w/sand pockets & roots		
3	7.7	8.5	5.5		Soft dark gray clay w/silty sand layers, organic matter & roots		
4	10.7	11.5		12.0	Soft dark gray clay w/organic matter & roots		
5	13.7	14.5	12.0	15.0	Soft gray clay w/roots		
6	15.5	17.0	15.0	-10.2	Medium dense gray fine sand w/clay pockets & roots	3	20
7	18.0	19.5		20.5	Medium dense gray fine sand w/clay layers	10	14
8	20.5	22.0	20.5		Very dense gray fine sand	50=6" (Seat)	
9	23.5	25.0			Ditto	25	50=8"
10	28.5	30.0			Ditto	20	50=6"
11	33.5	35.0			Very dense gray fine sand w/few shell fragments & trace of silt	18	50=8"
12	38.5	40.0			Very dense gray fine sand	23	50=6"
13	43.5	45.0		46.0	Very dense gray fine sand w/few shell fragments	2	50=10"
14	48.5	50.0	46.0	50.0	Medium dense gray fine sand w/clay pockets & shell fragments	3	12
15	53.2	54.0	50.0		Medium stiff gray clay w/silty sand pockets & few shell fragments		
					(Continued)		



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CLAY SILT SAND HUMUS

Predominant type shown heavy. Modifying type shown light.

Remarks: _____

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 15 (Cont'd) Soil Technician A. Croal, Jr. Date 17 October 1985

Ground Elev. _____ Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
16	58.2	59.0			Medium stiff gray clay w/few silty sand		
					pockets & few shell fragments		
17	63.2	64.0		66.0	Medium stiff gray clay w/shell		
					fragments		
18	68.2	69.0	66.0	69.0	Stiff gray clay w/shell fragments &		
					trace of sand		
19	69.5	70.0	69.0	70.0	Stiff green clay		

DEPTH IN FT.

*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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CLAY SILT SAND HUMUS

Predominant type shown heavy. Modifying type shown light.

Remarks: _____

LOG OF BORING

EUSTIS ENGINEERING COMPANY

SOIL AND FOUNDATION CONSULTANTS

METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements

Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

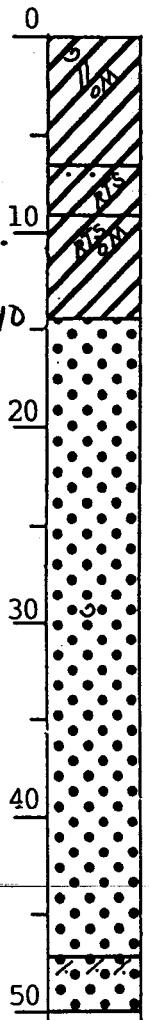
For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.

Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 16 Soil Technician George Hardee Date 25 October 1985

Ground Elev. 4.5NGVD Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	74+75 VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	2.0	2.5	0.0		Very stiff gray clay w/shells & brick		
					fragments		
2	4.5	5.5		6.5	Very stiff gray clay w/silt pockets &		
					organic matter		
3	7.5	8.5	6.5	9.0	Very stiff gray & tan clay w/sand		
					pockets & roots		
4	11.0	11.5	9.0	14.5	Soft dark gray clay w/roots & organic		
					matter		
5	14.5	15.0	14.5	-10	Very dense gray fine sand		
6	15.0	16.5			Ditto	16	50=9"
7	17.5	19.0			Ditto	15	50=10"
8	20.0	21.5			Ditto	16	50=10"
9	23.5	25.0			Ditto	23	50=8"
10	28.5	30.0			Very dense gray fine sand w/shells	30	50=5"
11	33.5	35.0			Very dense gray fine sand	32	50=5"
~~12~~	~~38.5~~	~~40.0~~			~~Very dense gray fine sand w/shells~~	~~22~~	~~50=7"~~
13	43.5	45.0		47.0	Very dense gray fine sand	20	50=9"
14	48.5	50.0	47.0	50.0	Medium dense gray fine sand w/clayey	2	13
					sand layers		



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CLAY SILT SAND HUMUS

Predominant type shown heavy. Modifying type shown light.

Remarks: _____

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements

Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.

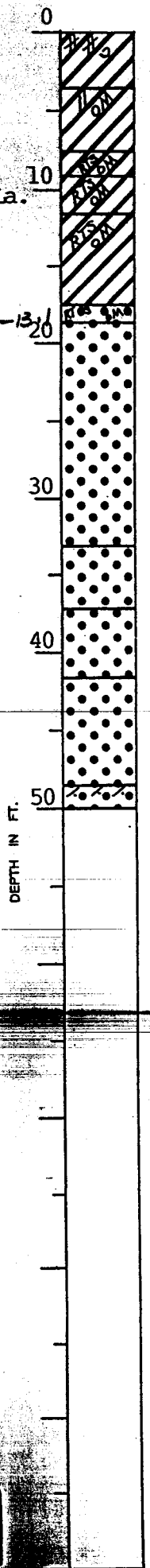
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 17 Soil Technician George Hardee Date 25 October 1985

Ground Elev. 5.4NGVD Datum _____ Gr. Water Depth See Text

79+75

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	2.0	2.5	0.0	3.5	Stiff brown & gray clay w/clayey silt		
					pockets, shells & brick fragments		
2	4.5	5.5	3.5	7.5	Medium stiff gray clay w/silt pockets		
					& organic matter		
3	8.0	8.5	7.5	9.0	Medium stiff brown & gray clay w/roots		
					& organic matter		
4	11.0	11.5	9.0	11.5	Soft black clay w/roots & organic matter		
5	13.5	14.5	11.5	17.5	Soft gray clay w/roots & organic matter		
6	18.0	18.5	17.5	18.5	Loose gray fine sand w/roots & organic		
					matter		
7	18.5	20.0	18.5		Dense gray fine sand	6	33
8	21.0	22.5			Ditto	8	41
9	24.0	25.5			Ditto	11	37
10	28.5	30.0		33.0	Ditto	11	39
11	33.5	35.0	33.0	37.0	Very dense gray fine sand	20	50=10"
12	38.5	40.0	37.0	41.5	Dense gray fine sand	12	32
13	43.5	45.0	41.5	48.5	Medium dense gray fine sand	5	18
14	48.5	50.0	48.5	50.0	Loose gray fine sand w/clayey sand	6	5
					layers		



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CLAY SILT SAND HUMUS

Predominant type shown heavy. Modifying type shown light.

Remarks: _____

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

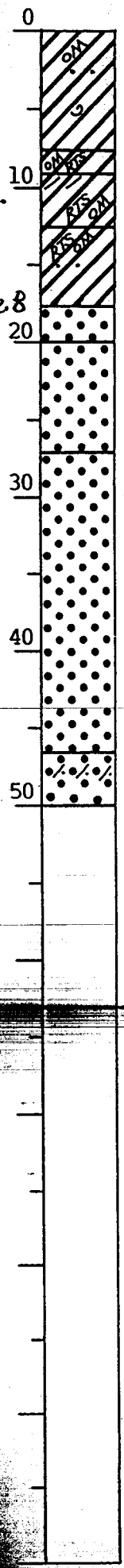
For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 18 Soil Technician George Hardee Date 25 October 1985

Ground Elev. 4.7 NGVD Datum _____ Gr. Water Depth See Text

84+75

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	1.5	2.5	0.0		Very stiff gray clay w/organic matter & sand pockets		
2	5.0	5.5		7.5	Stiff gray clay w/organic matter, sand pockets & shells		
3	8.0	8.5	7.5	9.0	Medium stiff brown & gray clay w/roots & organic matter		
4	10.5	11.5	9.0	12.5	Soft brown & gray clay w/clay pockets, roots & wood		
5	13.5	14.5	12.5		Soft gray clay w/roots & organic matter		
6	16.5	17.5		17.5	Soft gray clay w/sand pockets		
7	17.5	19.0	17.5	20.0	Dense gray fine sand	11	42
8	20.5	22.0	20.0		Medium dense gray fine sand	3	18
9	23.5	25.0		27.0	Ditto	5	25
10	28.5	30.0	27.0		Dense gray fine sand	12	50
11	33.5	35.0			Ditto	16	50
12	38.5	40.0			Ditto	13	50
13	43.5	45.0		46.5	Ditto	5	32
14	48.5	50.0	46.5	50.0	Loose gray fine sand w/clayey sand layers	3	9



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CLAY SILT SAND HUMUS

Predominant type shown heavy. Modifying type shown light.

Remarks: _____

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Sheet 1 of 2

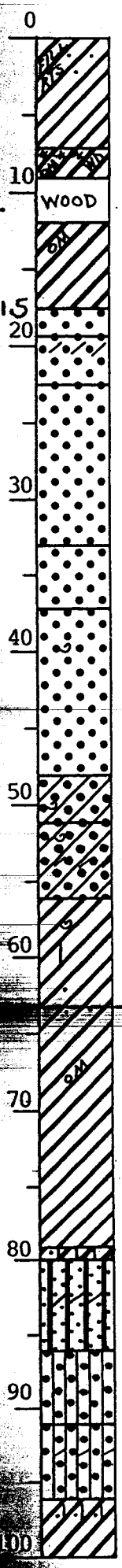
Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 19 Soil Technician A. J. Mayeux Date 18 October 1985

Ground Elev. 6.0 NGVD Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	86+35 VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
			0.0		Stiff gray & tan clay w/fill		
1	2.0	2.5			Stiff gray & tan clay w/sand pockets		
					& roots		
2	5.0	5.5		7.0	Medium stiff gray & tan clay w/sand		
					lenses, pockets & roots		
3	8.0	8.5	7.0	9.0	Very soft gray clay w/organic clay		
					layers, wood & organic matter		
	11.0	11.5	9.0	12.0	Wood w/organic matter & clay		
4	14.0	14.5	12.0	17.5	Soft gray clay w/some organic matter		
5	17.5	19.0	17.5	19.5	Medium dense gray sand	5	21
6	20.0	21.5	19.5	22.5	Loose gray sand w/clay layers	3	9
7	22.5	24.0	22.5		Medium dense gray sand	3	23
8	25.0	26.5			Ditto	2	24
9	28.5	30.0		33.0	Ditto	6	21
10	33.5	35.0	33.0	37.0	Dense gray sand	13	40
11	38.5	40.0	37.0		Medium dense gray sand w/shell	7	21
					fragments		
12	43.5	45.0		48.0	Ditto	4	22
13	48.5	50.0	48.0	51.0	Very loose gray clayey sand w/shell	2	5
					fragments		
14	53.5	55.0	51.0	56.0	Very loose gray clayey sand w/shell	1	3
					fragments & clay layers		
15	58.5	60.0	56.0		Medium stiff gray clay w/shell	3	7
			50.0		fragments & silt lenses		
16	64.0	64.5			Medium stiff gray clay w/trace of sand		
17	69.0	69.5			Stiff gray clay w/sand pockets		



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CLAY SILT SAND HUMUS

Predominant type shown heavy. Modifying type shown light.

Remarks: _____

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana
For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 19 (Cont'd) Soil Technician A. J. Mayeux Date 18 October 1985
Ground Elev. _____ Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
18	74.0	74.5		79.0	Stiff gray clay w/some organic matter & shell fragments		
19	'79.0	79.5	79.0	80.0	Medium stiff greenish-gray silty clay w/fine sand		
20	80.0	81.5	80.0		Medium compact greenish-gray sandy silt	6	19
21	82.5	84.0		86.0	Medium compact greenish-gray sandy silt w/clay layers	7	10
22	88.5	90.0	86.0	91.0	Dense gray silty sand	10	42
23	93.5	95.0	91.0	96.0	Medium dense gray silty sand w/clay layers	7	17
24	98.5	100.0	96.0	100.0	Medium stiff gray clay w/sandy silt layers	5	12

DEPTH IN FT.

*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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Remarks: _____

CLAY SILT SAND HUMUS

Predominant type shown heavy. Modifying type shown light.

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

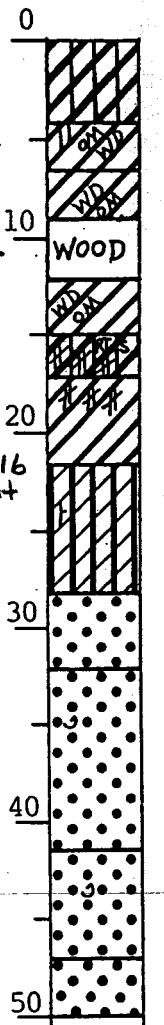
Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 20 Soil Technician A. J. Mayeux Date 18 October 1985

Ground Elev. 5.5NGVD Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	89+75 VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	2.0	2.5	0.0	4.0	Medium stiff brown & gray silty clay		
2	5.0	5.5	4.0	6.5	Medium stiff gray & tan clay w/silt pockets, organic matter & wood		
3	8.0	8.5	6.5	9.0	Medium stiff dark gray clay w/wood & organic matter		
	11.0	11.5	9.0	12.0	Wood w/clay & organic matter		
4	12.5	13.0	12.0	15.0	Soft dark gray clay w/wood & organic matter		
5	15.5	16.0	15.0	17.0	Soft gray silty clay w/clayey silt layers & roots		
6	19.0	19.5	17.0	21.5	Very soft gray clay w/clayey silt layers		
7	24.0	24.5	21.5	28.0	Very loose gray clayey silt w/silty sand lenses		
8	28.0	29.5	28.0		Medium dense gray sand	4	18
9	30.0	31.5	32.0		Ditto	15	45
10	32.0	33.5	32.0		Dense gray sand w/shell fragments	13	37
11	34.5	36.0			Ditto	6	33
12	38.5	40.0		41.5	Ditto	7	18
13	43.5	45.0	41.5	47.0	Medium dense gray sand w/shell fragments	2	8
14	48.5	50.0	47.0	50.0	Loose gray sand		



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Remarks: _____

CLAY SILT SAND HUMUS

Predominant type shown heavy. Modifying type shown light.

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

2.7/50
.27/50

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

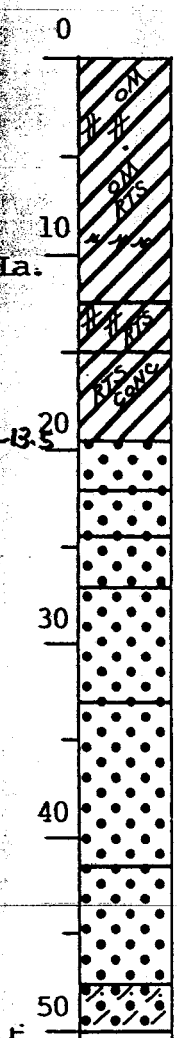
For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 21 Soil Technician George Hardee Date 19 October 1985

Ground Elev. 6.0 NGVD Datum _____ Gr. Water Depth _____

94775

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	2.0	2.5	0.0		Stiff brown & gray clay w/organic matter & clayey silt pockets & some sand		
2	5.0	5.5			Medium stiff brown & gray clay w/organic matter & sand pockets		
3	7.5	8.5			Soft brown & gray clay w/organic matter & roots		
4	10.5	11.5		12.5	Soft brown & gray clay w/organic matter & organic clay layers		
5	13.5	14.5	12.5	15.0	Soft gray clay w/clayey silt pockets & roots		
6	18.5	19.5	15.0	19.5	Soft gray clay w/roots & few concretions		
7	20.0	21.5	19.5	22.0	Very loose gray fine sand	4	4
8	22.5	24.0	22.0	24.5	Loose gray fine sand	2	8
9	25.0	26.0	24.5	27.0	Very dense gray fine sand		50=9"
10	28.5	30.0	27.0	33.0	Medium dense gray fine sand	5	20
11	33.5	35.0	33.0		Very dense gray fine sand	13	50=10"
12	38.5	40.0		41.5	Ditto	9	51
13	43.5	45.0	41.5	47.5	Medium dense gray fine sand	5	19
14	48.5	50.0	47.5	50.0	Loose gray fine sand w/clayey sand & clay layers	2	6



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Remarks: _____

Predominant type shown heavy. Modifying type shown light.

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

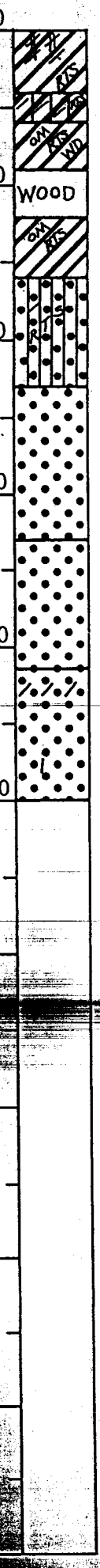
For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 22 Soil Technician George Hardee Date 19 October 1985

Ground Elev. 5.2 NGVD Datum _____ Gr. Water Depth See Text

99+75

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	1.5	2.5	0.0	4.0	Stiff brown & gray clay w/clayey silt & clayey sand pockets & roots		
2	5.0	5.5	4.0	6.0	Medium dense tan & gray silty sand w/clay layers & roots		
3	7.5	8.5	6.0	9.0	Stiff gray clay w/organic matter, roots & wood		
4	10.5	11.5	9.0	12.0	Wood w/organic matter, roots & dark gray clay		
5	13.5	14.5	12.0	16.0	Soft gray clay w/organic matter & roots		
6	18.5	19.5	16.0	-10.8	Very loose gray silty sand w/clay lenses & roots		
7	20.0	21.5		23.0	Very loose gray silty sand	1	3
8	22.5	24.0	23.0		Medium dense gray fine sand	1	14
9	25.0	26.5			Ditto	5	15
10	28.5	30.0		33.0	Ditto	7	28
11	33.5	35.0	33.0		Dense gray fine sand	15	41
12	38.5	40.0		41.5	Ditto	8	32
13	43.5	45.0	41.5		Medium dense gray fine sand w/clay layers	2	11
14	48.5	50.0		50.0	Medium dense gray fine sand w/silt	9	12



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CLAY SILT SAND HUMUS

Predominant type shown heavy. Modifying type shown light.

Remarks: _____

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

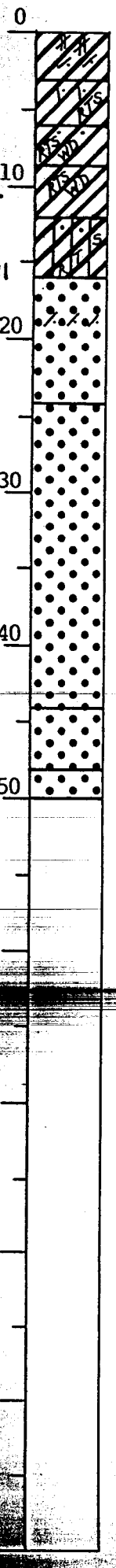
For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 23 **Soil Technician** George Hardee **Date** 19 October 1985

Ground Elev. 5.0 NGVD **Datum** _____ **Gr. Water Depth** See Text

STA 101+20

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	1.5	2.5	0.0	3.0	Stiff brown & gray clay w/clayey silt & clayey sand pockets		
2	5.0	5.5	3.0	6.0	Very soft dark brown & gray clay w/silty sand pockets & roots		
3	7.5	8.5	6.0	8.5	Soft dark gray clay w/sand pockets, roots & wood		
4	10.5	11.5	8.5	12.0	Soft dark brown & gray clay w/roots & wood		
5	13.5	14.5	12.0	16.0	Soft gray silty clay w/sand pockets & roots		
6	16.0	17.5	16.0		Loose gray fine sand	1	7
7	18.5	20.0			Very loose gray fine sand w/clayey sand layers	1	1
8	21.0	22.5		24.0	Ditto	1	3
9	23.5	25.0	24.0		Medium dense gray fine sand	1	14
~~10~~	~~28.5~~	~~30.0~~			~~Ditto~~		
11	33.5	35.0			Ditto	3	27
12	38.5	40.0		44.0	Ditto	7	29
13	43.5	45.0	44.0	48.0	Dense gray fine sand	4	38
14	48.5	50.0	48.0	50.0	Loose gray fine sand	7	7



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CLAY SILT SAND HUMUS

Predominant type shown heavy, modifying type shown light.

Remarks: _____

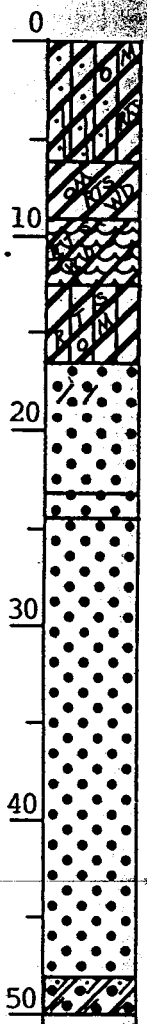
LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana
For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 24 Soil Technician George Hardee Date 18 October 1985
Ground Elev. 5.0 Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	104+75 VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	2.0	2.5	0.0		Stiff gray & tan silty clay w/organic matter & sand pockets & layers		
2	5.0	6.0		6.0	Soft gray & tan silty clay w/sandy silt layers, pockets, organic matter & roots		
3	8.5	9.0	6.0	9.0	Soft gray clay w/organic matter, roots & wood		
4	10.5	11.5	9.0	12.5	Medium stiff brown organic clay w/roots & wood		
5	13.5	14.5	12.5	16.5	Soft gray silty clay w/roots & organic matter		
6	18.5	19.5	16.5		Very loose gray fine sand w/clay pockets		
7	20.0	21.5		23.0	Ditto	1	3
8	22.5	24.0	23.0	24.5	Loose gray fine sand	1	10
9	25.0	26.5	24.5		Medium dense gray fine sand	2	14
10	28.5	30.0			Ditto	4	19
11	33.5	35.0			Ditto	6	29
12	38.5	40.0			Ditto	8	21
13	43.5	45.0		48.0	Ditto	6	28
14	48.5	50.0	48.0	50.0	Loose gray clayey sand w/sandy clay & clay layers	3	5



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CLAY SILT SAND HUMUS

Predominant type shown heavy. Modifying type shown light.

Remarks:

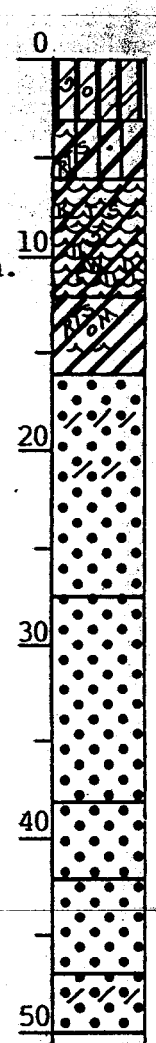
LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana
For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 25 Soil Technician George Hardee Date 18 October 1985
Ground Elev. 4.7 Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	109+75 VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	1.5	2.5	0.0	3.0	Loose tan & gray clayey silt w/shells, gravel & clay pockets		
2	5.0	5.5	3.0	6.0	Stiff brown & gray silty clay w/humus, roots & trace of sand		
3	7.5	8.5	6.0		Soft dark brown & gray organic clay w/roots, humus pockets & shells		
4	11.0	11.5		12.0	Soft dark gray organic clay w/roots, silt pockets, wood & humus pockets (fill)		
5	13.5	14.5	12.0	16.0	Soft gray clay w/roots, organic matter & humus pockets		
6	19.0	19.5	16.0		Loose gray fine sand w/clay layers		
7	23.5	24.5			Loose gray fine sand w/clay pockets		
8	25.0	26.5		27.5	Ditto	3	5
9	27.5	29.0	27.5		Medium dense gray fine sand	3	15
10	30.5	32.0			Ditto	6	21
11	33.5	35.0		38.0	Ditto	5	22
12	38.5	40.0	38.0	42.0	Dense gray fine sand	15	37
13	43.5	45.0	42.0	47.0	Medium dense gray fine sand	7	10
14	48.5	50.0	47.0	50.0	Loose gray fine sand w/clay layers	3	5



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CLAY SILT SAND HUMUS

Predominant type shown heavy. Modifying type shown light.

Remarks:

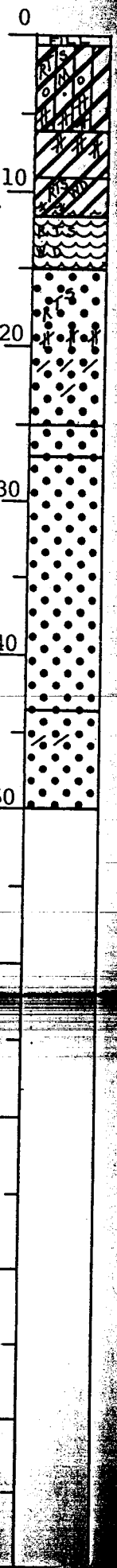
LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana
For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 26 Soil Technician George Hardee Date 21 October 1985
Ground Elev. 4.8 NGVD Datum Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	114+75 VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
			0.0	0.5	Compact miscellaneous fill (shells,		
					gravel & clay pockets)		
1	2.0	2.5	0.5		Medium stiff brown & gray silty clay		
					w/organic matter & trace of sand		
2	5.0	5.5		6.0	Medium stiff tan & gray silty clay		
					w/clayey silt layers, lenses, gravel		
					& roots (fill)		
3	7.5	8.5	6.0	9.0	Medium stiff dark gray clay w/clayey		
					silt layers		
4	10.5	11.5	9.0	11.5	Soft dark gray clay w/roots, wood,		
					organic clay pockets & humus layers		
5	14.0	14.5	11.5	15.0	Loose dark brown humus w/roots &		
					wood		
6	18.5	19.5	15.0		Very loose gray fine sand w/roots,		
					clayey silt & clay layers		
7	24.0	25.0		25.0	Very loose gray fine sand w/trace of		
					clay		
8	25.0	26.5	25.0	27.0	Loose gray fine sand	2	9
9	27.5	29.0	27.0		Medium dense gray fine sand	4	21
10	30.0	31.5			Ditto	8	26
11	33.5	35.0			Ditto	6	13
12	38.5	40.0		43.5	Ditto	10	24
13	43.5	45.0	43.5		Loose gray fine sand	1	6
14	48.5	49.5		50.0	Loose gray fine sand w/clay pockets		



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Remarks:

CLAY SILT SAND HUMUS

Predominant type shown heavy. Modifying type shown light.

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 27 Soil Technician George Hardee Date 21 October 1985

Ground Elev. -0.5 WRONG +3.0 F.S. toe See Photo Datum ____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	121+35 VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	2.0	2.5	0.0	2.5	Medium stiff tan & gray clay w/sand pockets		
2	5.0	5.5	2.5	6.0	Medium dense tan & gray silty sand w/clayey sand layers & pockets		
3	8.0	8.5	6.0	9.5	Stiff gray & brown clay w/sand pockets		
4	11.0	11.5	9.5		Loose gray silty sand w/clay pockets, organic matter & roots		
5	13.5	14.5		15.0	Loose gray silty sand w/roots, clay pockets & layers		
6	16.0	17.0	15.0	17.0	Medium stiff gray clay		
			17.0	18.5	Wood		
7	19.5	20.5	18.5		Soft dark gray organic clay w/roots & humus layers		
8	23.5	24.5		25.0	Very soft dark gray organic clay w/humus layers		
9	30.0	31.0	25.0	33.0	Loose gray fine sand	3	7
10	32.5	34.0	33.0		Medium dense gray fine sand	3	19
11	35.0	36.5			Ditto	4	22
12	37.5	39.0			Ditto	6	21
13	40.0	41.5		43.0	Ditto	5	23
14	43.5	45.0	43.0	48.0	Dense gray fine sand	11	43
15	48.5	50.0	48.0		Loose gray fine sand	3	5
16	53.5	54.5		54.5	Loose gray fine sand w/clay layers		
17	58.5	59.5	54.5	63.5	Medium stiff gray clay w/clayey sand pockets & shell fragments		
					(Continued)		

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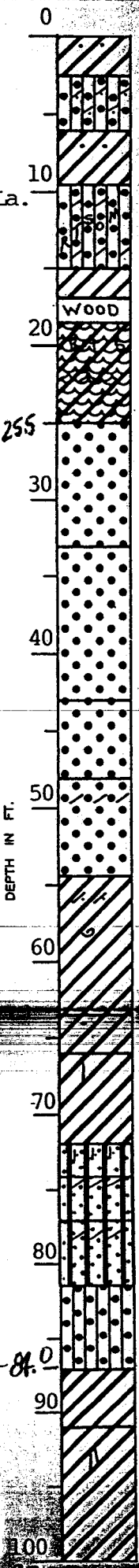
Remarks:

Predominant type shown heavy. Modifying type shown light.



LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 27 (Cont'd) **Soil Technician** George Hardee **Date** 21 October 1985

Ground Elev. _____ **Datum** _____ **Gr. Water Depth** See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
18	63.5	64.5	63.5	66.0	Stiff greenish-gray clay w/trace of sand		
19	68.5	69.5	66.0	72.0	Stiff greenish-gray & tan clay w/trace of silt		
20	72.5	73.5	72.0	74.0	Medium compact tan sandy silt w/silty sand layers		
21	73.5	75.0	74.0	77.0	Compact tan sandy silt w/clay layers	9	39
22	78.5	80.0	77.0	81.5	Medium compact tan sandy silt w/clay layers	7	25
23	83.5	85.0	81.5	87.0	Very dense tan & gray silty sand	25	50=7"
24	88.5	90.0	87.0	91.0	Stiff gray & tan clay	4	9
25	93.5	94.5	91.0		Stiff gray clay w/silt pockets		
26	98.5	99.5		100.0	Ditto		

DEPTH IN FT.

*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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Remarks:

CLAY SILT SAND HUMUS

Predominant type shown heavy. Modifying type shown light.

LOG OF BORING

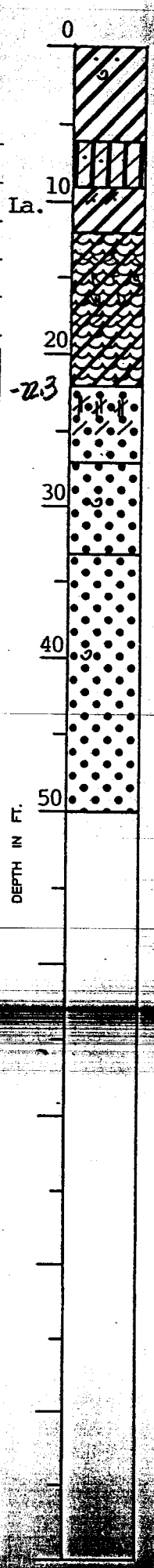
EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana
For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 28 Soil Technician George Hardee Date 22 October 1985
Ground Elev. +0.3 NGVD WRONG +3.0 See Photo Datum _____ Gr. Water Depth See Text

124+75

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	1.5	2.5	0.0		Stiff tan & gray clay w/sand pockets		
					& shell fragments		
2	4.5	5.5		6.0	Very stiff brown & gray clay w/sand		
					pockets & decayed shells		
3	7.5	8.5	6.0	9.0	Medium compact gray & brown clayey silt		
					w/fine sand		
4	10.5	11.5	9.0	12.0	Medium stiff tan & gray clay w/clayey		
					sand pockets		
5	13.5	14.5	12.0		Soft dark brown & gray organic clay		
					w/humus layers, roots & wood		
6	19.5	20.0			Soft dark brown & gray organic clay		
					w/roots, wood & clay layers		
7	21.0	22.0		22.0	Soft dark brown & gray organic clay		
					w/roots		
8	23.5	24.5	22.0		Loose gray fine sand w/clayey silt		
					[illegible] layers		
9	25.0	26.5		27.0	Loose gray fine sand	3	6
10	27.5	29.0	27.0		Very loose gray fine sand	2	4
11	30.0	31.5		33.0	Very loose gray fine sand w/shells	2	3
12	43.5	34.0	33.0		Medium dense gray fine sand	2	15
13	35.5	37.0			Ditto	6	22
14	38.5	40.0			Medium dense gray fine sand w/shells	4	16
15	43.5	45.0			Medium dense gray fine sand	3	15
16	48.5	50.0		50.0	Ditto	4	23



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CLAY SILT SAND HUMUS

Predominant type shown heavy. Modifying type shown light.

Remarks: _____

LOG OF BORING

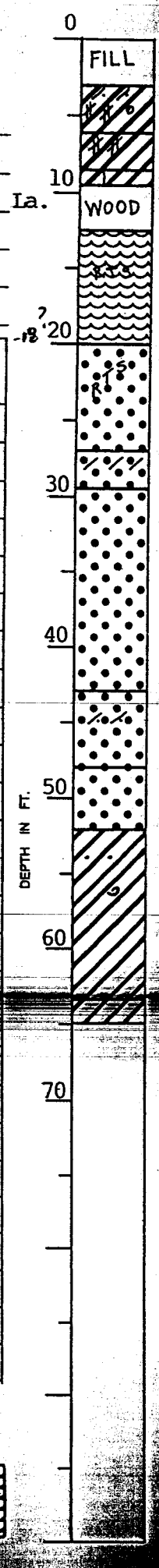
EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana
For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 29 Soil Technician George Hardee Date 22 October 1985
Ground Elev. +2.6 ? Datum _____ Gr. Water Depth See Text

127+50

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
			0.0	3.0	Compact miscellaneous fill (shells,		
					clay, sand & cement		
1	4.5	5.5	3.0	6.0	Very stiff brown & gray clay w/clayey		
					sand, clayey silt pockets & gravel		
2	8.0	8.5	6.0	8.5	Stiff tan & gray clay w/clayey silt		
					pockets		
3	9.0	9.5	8.5	9.5	Soft gray clay w/silt lenses		
			9.5	12.5	Wood		
4	15.0	16.0	12.5		Loose brown humus w/roots		
5	19.5	20.0		20.0	Ditto		
6	24.0	24.5	20.0		Loose gray fine sand w/roots		
7	25.0	26.5		27.0	Loose gray fine sand	3	7
8	27.5	29.0	27.0	29.5	Very loose gray fine sand w/clay layers	2	2
9	30.0	31.5	29.5		Medium dense gray fine sand	3	13
10	33.5	35.0			Ditto	2	14
11	38.5	40.0		43.0	Ditto	7	21
12	43.5	45.0	43.0		Very loose gray fine sand w/clayey sand	2	2
					pockets		
13	47.0	48.0		48.0	Very loose gray fine sand		
14	48.5	50.0	48.0	52.0	Medium dense gray fine sand	7	23
15	53.5	55.0	52.0		Medium stiff gray clay w/sand pockets	1	3
					& shells		
16	58.5	59.5		63.5	Ditto		
17	63.5	64.5	63.5	65.0	Stiff gray silty clay		



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Remarks:

CLAY · SILT · SAND · HUMUS

Predominant type shown heavy. Modifying type shown light.

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

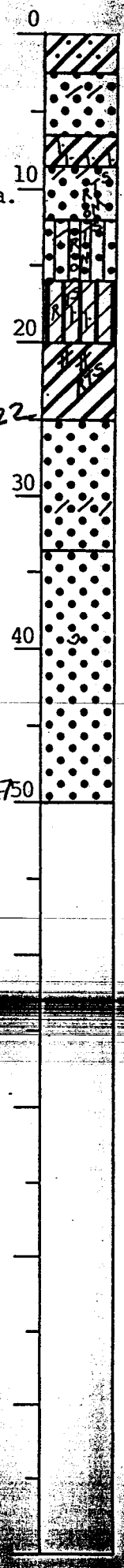
Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 30 **Soil Technician** George Hardee **Date** 23 October 1985

Ground Elev. +3.0 NGVD **Datum** _____ **Gr. Water Depth** See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	134+00 VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	1.5	2.5	0.0	2.5	Stiff brown & gray clay w/sand pockets & layers		
2	5.5	6.0	2.5	6.5	Medium dense tan fine sand w/clay pockets		
3	7.5	8.5	6.5	8.5	Soft brown & gray clay w/alternating silty sand lenses & layers		
4	10.5	11.5	8.5	12.0	Loose gray & tan fine sand w/clay pockets, roots & organic matter		
5	14.0	14.5	12.0	16.0	Loose gray silty sand w/roots, some clay & organic matter		
6	18.5	19.5	16.0	20.0	Very loose gray clayey silt w/roots & silty sand pockets		
7	23.5	24.5	20.0	25.0	Soft gray clay w/clayey silt pockets & decayed roots		
8	25.0	26.5	25.0		Loose gray fine sand	3	6
9	27.5	29.0			Loose gray fine sand w/clay layers	4	5
10	30.0	31.5		33.5	Loose gray fine sand	3	9
11	33.5	35.0	33.5		Medium dense gray fine sand	2	17
12	38.5	40.0			Medium dense gray fine sand w/shells	7	25
13	43.5	45.0			Medium dense gray fine sand	2	21
14	48.5	50.0		50.0	Ditto	8	27



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Remarks:

CLAY SILT SAND HUMUS

Predominant type shown heavy. Modifying type shown light.

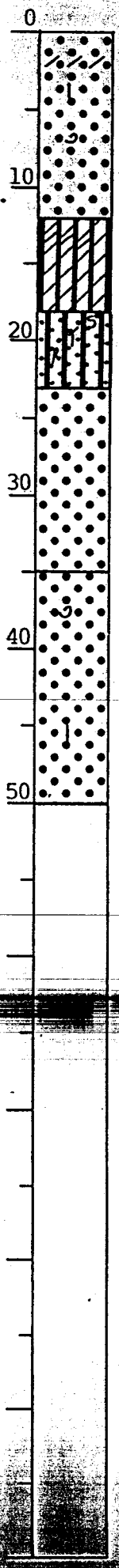
LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana
For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 31 Soil Technician George Hardee Date 23 October 1985
Ground Elev. 4.2 NGVD Datum Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	139+00 VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	2.0	2.5	0.0		Medium dense tan fine sand w/clay		
					layers & silt		
2	5.5	6.0			Ditto		
3	8.5	9.0			Medium dense tan fine sand w/clay		
					layers & shells		
4	11.5	12.0		12.0	Ditto		
5	12.5	14.0	12.0		Very loose to loose gray clayey silt	2	2
					w/clay layers		
6	15.0	16.5		18.0	Very loose to loose gray clayey silt	1	3
7	17.5	19.0	18.0		Medium compact gray sandy silt	1	12
8	20.0	21.5		23.0	Medium compact gray sandy silt w/roots	3	11
9	23.5	25.0	23.0		Loose gray fine sand	1	6
10	28.5	30.0			Ditto	1	6
11	33.5	35.0		35.0	Ditto	2	10
12	38.5	40.0	35.0		Medium dense gray fine sand w/shells	4	25
13	43.5	45.0			Medium dense gray fine sand	4	18
14	48.5	50.0		50.0	Medium dense gray fine sand w/silt	6	12



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CLAY SILT SAND HUMUS

Predominant type shown heavy. Modifying type shown light.

Remarks:

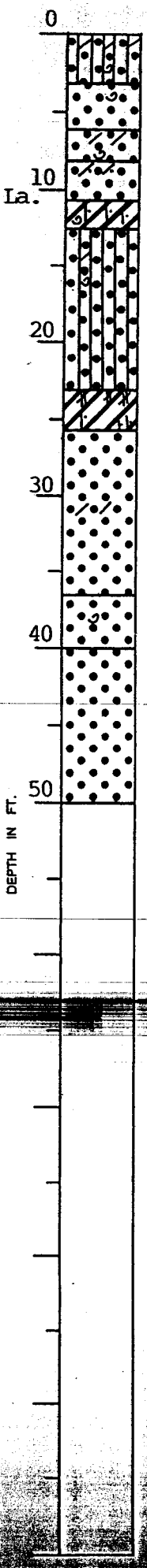
LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana
For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 32 Soil Technician George Hardee Date 23 October 1985
Ground Elev. +4.7 Datum Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	14-3100 VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	2.0	2.5	0.0	3.0	Medium dense tan silty sand w/clay layers & shells		
2	5.0	5.5	3.0	6.0	Medium dense tan fine sand w/shells		
3	6.0	7.5	6.0	8.0	Loose tan fine sand w/clay pockets & shells	1	4
4	8.5	10.0	8.0	10.5	Loose gray fine sand w/clayey sand pockets	1	7
5	11.0	12.5	10.5	12.5	Soft gray clay w/silty fine sand layers & few shell fragments	1	5
6	14.5	15.5	12.5		Medium dense gray silty sand w/few clay lenses & shells		
7	18.5	19.5		23.0	Ditto		
8	23.5	24.5	23.0	25.5	Very soft gray clay w/clayey silt & silty sand lenses & pockets		
9	28.5	29.5	25.5		Very loose gray fine sand w/clay pockets		
10	30.0	31.5			Ditto	1	3
11	32.5	34.0			Ditto	1	3
12	35.0	36.5		36.5	Ditto	2	5
13	38.5	40.0	36.5	40.0	Loose gray fine sand w/shells	3	10
14	43.5	45.0	40.0		Medium dense gray fine sand	3	21
15	48.5	50.0		50.0	Ditto	9	24



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CLAY SILT SAND HUMUS

Predominant type shown heavy. Modifying type shown light.

Remarks:

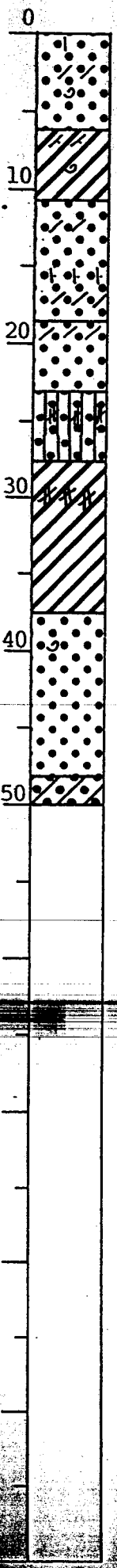
LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana
For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 33 **Soil Technician** George Hardee **Date** 24 October 1985
Ground Elev. 5.7 NGVD **Datum** _____ **Gr. Water Depth** See Text

Sample No.	SAMPLE Depth — Feet From	SAMPLE Depth — Feet To	DEPTH STRATUM Feet From	DEPTH STRATUM Feet To	149+00 VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	1.0	2.5	0.0		Loose tan fine sand w/silt	3	9
2	3.5	5.0		6.0	Loose tan fine sand w/clay pockets &	3	6
					shells		
3	6.0	7.5	6.0		Soft tan & gray clay w/clayey sand	1	5
					pockets		
4	8.5	9.5		10.5	Soft tan & gray clay w/clayey sand		
					pockets & shells		
5	12.5	13.0	10.5		Very loose gray fine sand w/clay		
					pockets		
6	13.0	14.5			Ditto	1	3
7	15.5	17.0		18.5	Very loose gray fine sand w/silty sand	1	2
					& clay layers		
8	18.0	19.5	18.5		Medium dense gray fine sand w/clay	1	10
					layers		
9	20.5	22.0		23.0	Medium dense gray fine sand	4	11
10	23.5	25.0	23.0	27.5	Very loose gray silty sand w/clayey	1	3
					silt layers		
11	28.5	30.0	27.5		Soft gray clay	1	1
12	33.5	34.5		37.5	Medium stiff gray clay w/clayey silt		
					pockets		
13	39.5	40.0	37.5		Medium dense gray fine sand w/shells		
14	40.0	41.5			Medium dense gray fine sand	4	12
15	43.5	45.0		48.0	Ditto	5	27
16	48.5	50.0	48.0	50.0	Loose gray clayey sand	1	7



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Remarks: _____

CLAY SILT SAND HUMUS

Predominant type shown heavy. Modifying type shown light.

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

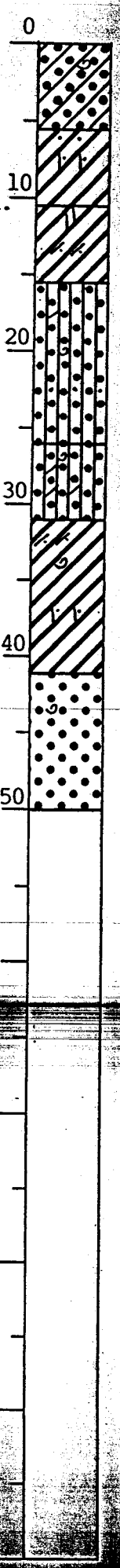
Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 34 Soil Technician George Hardee Date 24 October 1985

Ground Elev. 4.0 NGVD Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	154-100 VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	1.0	2.5	0.0		Medium dense tan clayey sand w/shells	5	18
2	3.5	5.0		5.5	Medium dense tan clayey sand	5	11
3	6.0	7.5	5.5		Medium stiff tan & gray clay w/sand	2	5
					pockets		
4	8.5	9.5		10.5	Soft tan & gray clay w/silty sand		
					pockets		
5	11.5	12.5	10.5		Soft gray clay w/silt pockets		
6	14.5	15.5		15.5	Soft gray clay w/clayey sand layers		
7	18.5	19.5	15.5		Medium dense gray silty fine sand		
					w/clay lenses & shell fragments		
8	23.5	24.5		26.0	Medium dense gray silty fine sand		
					w/shells & sand layers		
9	28.5	29.5	26.0	31.0	Loose gray silty sand w/shells, clay		
					lenses & pockets		
10	33.5	34.5	31.0		Soft gray clay w/clayey sand pockets		
					& silt [illegible]		
11	38.5	39.5		41.0	Soft gray clay w/silty sand pockets		
12	43.0	43.5	41.0		Medium dense gray fine sand w/shells		
13	43.5	45.0			Ditto	2	13
14	48.5	50.0		50.0	Medium dense gray fine sand	4	19



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Remarks: _____

CLAY SILT SAND HUMUS

Predominant type shown heavy. Modifying type shown light.

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Sheet 1 of 2

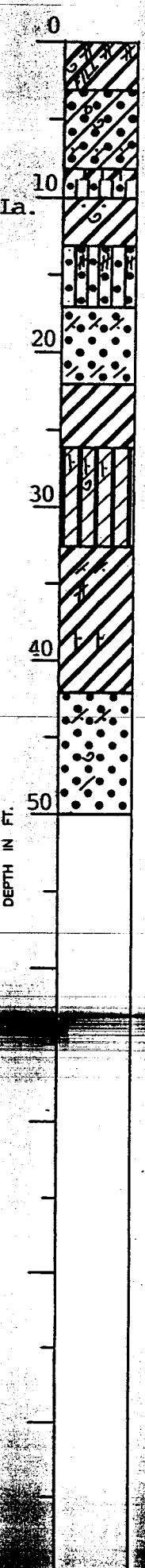
Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 35 Soil Technician George Hardee Date 24 October 1985

Ground Elev. 5.1 NGVD Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	159+00 VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	2.0	3.0	0.0	3.0	Very stiff tan & gray clay w/clayey		
					silt layers, shells & brick (fill)		
2	3.5	5.0	3.0		Medium dense tan & gray clayey sand	8	20
					w/gravel & shells		
3	6.0	7.5		8.0	Medium dense tan & gray clayey sand	7	17
					w/sandy clay layers		
4	8.5	9.5	8.0	10.0	Alternating lenses of medium stiff tan		
					& gray silty clay & medium dense tan		
					silty sand & decayed shells		
5	12.0	13.0	10.0	13.0	Soft tan & gray clay w/sand pockets		
					& shell fragments		
6	13.0	14.5	13.0		Loose gray silty sand w/clayey silt	2	6
					layers		
7	15.5	17.0		17.0	Ditto	2	5
8	19.5	20.0	17.0		Very loose gray fine sand w/clayey		
					sand pockets		
9	20.0	21.5		22.0	Very loose gray fine sand w/clay	1	2
					layers		
10	22.5	24.0	22.0	26.0	Soft gray clay	1	3
11	28.5	29.5	26.0	32.5	Very loose gray clayey silt w/silty		
					sand layers & shell fragments		
12	33.5	34.5	32.5		Soft gray clay w/clayey sand pockets		
13	38.5	39.5		42.0	Soft gray clay w/clayey silt lenses		
					& silty sand pockets		
14	42.5	43.5	42.0		Medium dense gray fine sand w/clayey		
					sand pockets & shells		



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CLAY SILT SAND HUMUS

Predominant type shown heavy. Modifying type shown light.

Remarks: _____

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 35 (Cont'd) Soil Technician George Hardee Date 24 October 1985

Ground Elev. _____ Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
15	44.0	45.5			Medium dense gray fine sand	4	11
16	48.5	50.0		50.0	Medium dense gray fine sand w/trace of clay	2	19

DEPTH IN FT.

*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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Remarks: _____

Predominant type shown heavy. Modifying type shown light.

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 36 Soil Technician A. J. Mayeux Date 26 October 1985

Ground Elev. 6.8 NGVD Datum Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	2.0	2.5	0.0	4.0	Loose gray & tan clayey silt		
					w/miscellaneous fill		
2	5.0	5.5	4.0	7.0	Medium stiff tan & gray silty clay		
3	8.0	8.5	7.0		Medium stiff gray silty clay w/organic		
					matter		
4	11.0	11.5		12.5	Ditto		
5	14.0	14.5	12.5	16.0	Stiff tan & gray clay w/silt pockets		
6	19.0	19.5	16.0	21.0	Medium stiff gray & tan silty clay		
7	24.0	24.5	21.0	26.5	Soft gray clay w/silt pockets		
8	26.5	28.0	26.5	29.0	Medium dense gray silty sand	3	21
9	29.0	30.5	29.0	31.0	Medium dense gray silty sand w/clay	7	18
					layers		
10	31.5	33.0	31.0		Loose gray silty sand w/clay layers	3	8
11	34.0	35.5		35.5	Ditto	2	6
12	39.0	39.5	35.5		Medium stiff gray clay w/silt lenses		
[illegible]					Ditto		
14	49.0	49.5		50.0	Ditto		
15	54.0	54.5	50.0	56.0	Soft gray sandy clay w/shell fragments		
16	51.5	58.0	56.0	58.5	Very loose gray silty sand w/clay		
					lenses & shell fragments		
17	58.5	60.0	58.5		Medium dense gray sand w/shell	3	14
					fragments		
18	61.0	62.5		63.0	Ditto	4	13
19	64.0	64.5	63.0	67.0	Loose gray clayey sand w/clay pockets		
					& shell fragments		
					(Continued)		

*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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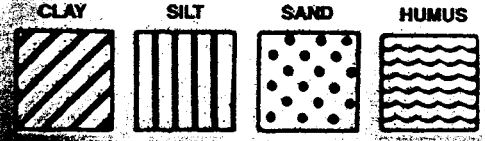
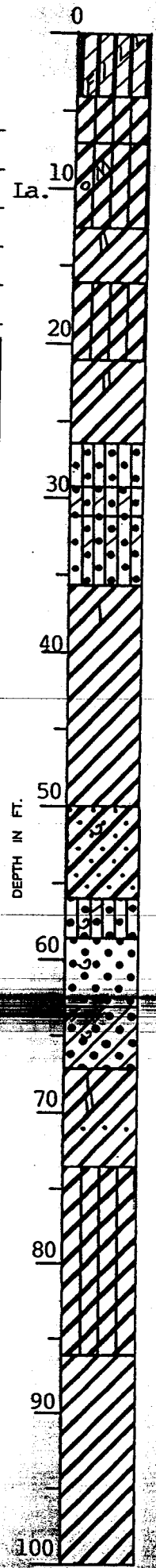
Remarks:



Predominant type shown heavy. Modifying type shown light.



LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 36 (Cont'd) Soil Technician A. J. Mayeux Date 26 October 1985

Ground Elev. _____ Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
20	69.0	69.5	67.0	73.5	Medium stiff gray & tan clay w/silt		
					lenses & pockets & sand layers		
21	74.0	74.5	73.5		Stiff greenish-gray silty clay		
22	79.0	79.5			Ditto		
23	84.0	84.5		86.0	Ditto		
24	89.0	89.5	86.0		Stiff greenish-gray & tan clay		
25	94.0	94.5			Very stiff greenish-gray & tan clay		
26	99.0	99.5		100.0	Ditto		

DEPTH IN FT.

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CLAY SILT SAND HUMUS

Predominant type shown heavy, Modifying type shown light.

Remarks:

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Sheet 1 of 2

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 37 Soil Technician S. Porta Date 25 October 1985

Ground Elev. 4.3 NGVD Datum Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	7+10 VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	0.0	0.5	0.0	1.0	Soft gray silty clay w/grass roots		
2	2.5	3.0	1.0	4.0	Stiff gray & tan clay w/silt pockets		
	"				& shells		
3	5.5	6.0	4.0		Medium stiff gray & tan clay w/silt		
					pockets		
4	8.5	9.0		9.5	Ditto		
5	11.5	12.0	9.5	14.0	Soft tan & gray clay w/vertical sand		
					lenses		
6	14.5	15.0	14.0	16.0	Medium stiff gray clay w/trace of		
					organic matter		
7	19.5	20.0	16.0	24.0	Soft gray clay w/clayey silt layers		
8	24.5	25.0	24.0		Loose gray silty fine sand w/clay		
					layers		
9	25.0	26.5		28.0	Ditto	5	8
10	28.0	29.5	28.0		Soft gray clay w/silt lenses	1	
11	34.5	35.0			Ditto		
12	39.5	40.0		41.0	Soft gray clay w/sand lenses & layers		
13	44.5	45.0	41.0	47.0	Loose gray clayey sand w/clay layers		
					& shells		
14	49.5	50.0	47.0	51.0	Soft gray sandy clay w/large silty sand		
					pockets & shells		
15	52.5	53.0	51.0	56.0	Loose gray silty sand w/shells		
16	53.0	54.5	56.0		Ditto	4	8
17	56.0	57.5		57.5	Loose gray sand & shells w/clay layers	3	3
18	59.5	60.0	57.5	62.0	Very loose gray clayey sand w/shells		
					(Continued)		

*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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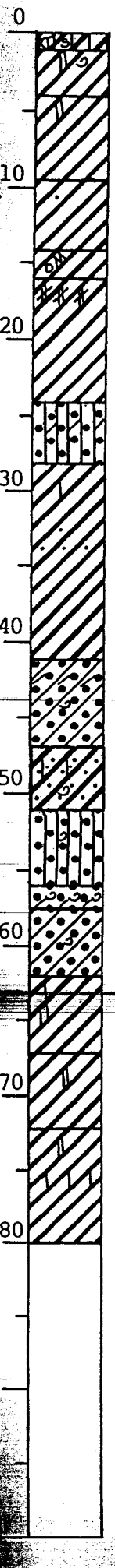
Remarks:

Predominant type shown heavy, modifying type shown light.



LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 37 (Cont'd) Soil Technician S. Porta Date 25 October 1985

Ground Elev. _____ Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
19	64.5	65.0	62.0	67.0	Medium stiff gray & tan clay w/silt		
					lenses & pockets		
20	'69.5	70.0	67.0	72.0	Very stiff greenish-gray & tan clay		
					w/silt pockets		
21	74.5	75.0	72.0		Stiff gray & tan clay w/silt pockets		
					& layers		
22	79.5	80.0		80.0	Ditto		

DEPTH IN FT.

*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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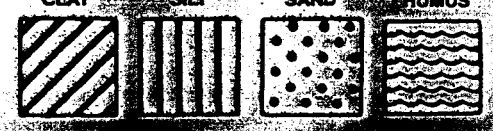
Remarks: _____



Predominant type shown heavy, Modifying type shown light

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

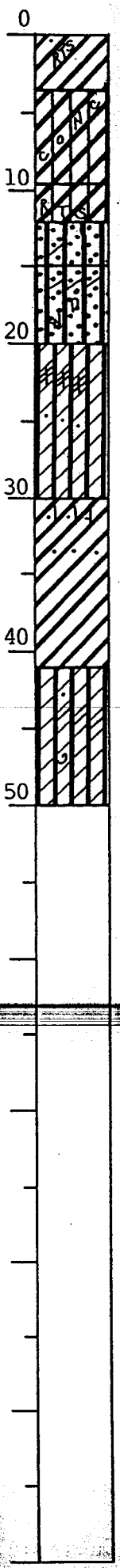
Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 38 Soil Technician R. Elkins Date 26 October 1985

Ground Elev. 5.0 NGVD Datum Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	11+60 VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	1.5	2.5	0.0	3.5	Stiff gray & tan clay w/sand, grass roots & few brick fragments		
2	4.5	5.5	3.5		Soft gray & tan silty clay w/concretions		
3	7.5	8.5		9.5	Ditto		
4	10.5	11.5	9.5	12.0	Medium stiff gray & tan silty clay w/roots		
5	13.5	14.5	12.0	15.0	Loose gray sandy silt w/trace of clay		
6	18.0	19.0	15.0	20.0	Medium compact gray sandy silt w/clay layers & decayed wood		
7	23.0	24.0	20.0		Loose gray clayey silt w/silty clay layers		
8	28.0	29.0		30.0	Loose gray clayey silt w/sand layers		
9	33.0	34.0	30.0		Soft gray & tan clay w/sandy silt layers		
10	38.0	39.0		41.0	Soft gray & tan clay w/sand lenses		
11	43.0	44.0	41.0	46.0	Medium compact gray clayey silt w/sand lenses		
12	48.0	49.0	46.0	50.0	Loose gray clayey silt w/clay layers & shell fragments		



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CLAY SILT SAND HUMUS

Predominant type shown heavy, additional type shown light.

Remarks:

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Sheet 1 of 2

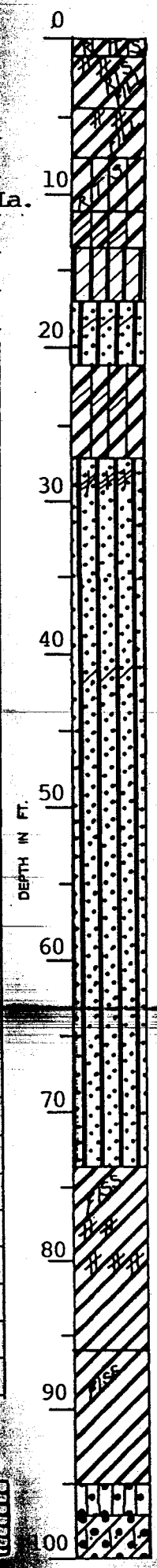
Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 39 Soil Technician S. Porta Date 5 November 1985

Ground Elev. 4.5 NGVD Datum Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	13+70 VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	0.0	0.5	0.0	1.0	Medium stiff gray silty clay w/grass roots		
2	2.5	3.0	1.0	4.5	Medium stiff gray & tan clay w/clayey silt pockets, few roots & fill		
3	5.5	6.0	4.5	7.5	Medium stiff brown & gray clay w/clayey silt pockets & fill		
4	8.5	9.0	7.5	11.0	Medium stiff gray & tan silty clay w/roots		
5	11.5	12.0	11.0	13.5	Very soft gray silty clay w/clay layers		
6	14.5	15.0	13.5	17.0	Medium compact gray clayey silt		
7	19.5	20.0	17.0	21.0	Loose gray sandy silt w/clay layers		
8	24.5	25.0	21.0	27.0	Soft gray silty clay w/clay layers		
9	29.5	30.0	27.0		Loose gray sandy silt w/silty clay layers		
10	34.5	35.0			Ditto		
11	39.5	40.0			Ditto		
12	43.5	45.0			Ditto		
13	45.0	46.5			Ditto	2	7
14	47.5	49.0			Ditto	2	8
15	50.0	51.5			Loose gray sandy silt w/clay layers	1	9
16	53.5	55.0			Ditto	1	6
17	58.5	60.0			Ditto	1	4
18	63.5	65.0			Ditto	2	6
19	68.5	70.0		73.5	Ditto	2	11
20	73.5	75.0	73.5		Medium stiff greenish-gray fissured clay w/clayey silt pockets		



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CLAY SILT SAND HUMUS

Predominant type shown heavy, modifying type shown light.

Remarks:

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 39 (Cont'd) Soil Technician S. Porta Date 5 November 1985

Ground Elev. _____ Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	SAMPLE Depth — Feet To	DEPTH STRATUM Feet From	DEPTH STRATUM Feet To	VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
21	79.5	80.0			Medium stiff greenish-gray fissured		
					clay		
22	84.5	85.0		86.0	Medium stiff greenish-gray fissured		
					clay w/clayey silt layers		
23	89.5	90.0	86.0		Medium stiff tan & gray fissured clay		
24	94.5	95.0		95.0	Stiff tan & gray fissured clay		
25	95.0	96.5	95.0	97.0	Medium dense gray silty sand	4	29
26	98.5	100.0	97.0	100.0	Medium dense gray clayey sand w/silty	5	16
					sand layers		

DEPTH IN FT.

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CLAY SILT SAND HUMUS

Predominant type shown heavy. Modifying type shown light.

Remarks: _____

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Sheet 1 of 2

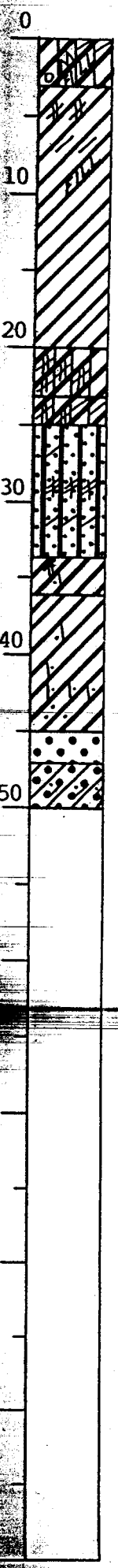
Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 40 Soil Technician George Hardee Date 7 November 1985

Ground Elev. 5.6 NGVD Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	21+40 VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	1.5	2.5	0.0	3.0	Medium stiff tan silty clay w/clay pockets, organic matter, brick & fragments (fill)		
2	4.0	5.0	3.0		Stiff tan & gray clay w/cinders, clayey silt & clay pockets (fill)		
3	6.5	7.5		8.5	Medium stiff tan & gray clay w/clayey silt pockets & roots (fill)		
4	9.0	10.0	8.5	11.0	Stiff tan & gray clay w/clayey silt pockets		
5	11.5	12.5	11.0		Medium stiff tan & gray clay w/clayey silt pockets		
6	14.0	15.0			Ditto		
7	16.5	17.5			Ditto		
8	19.0	20.0		20.0	Ditto		
9	21.5	22.5	20.0	23.0	Medium stiff gray silty clay w/clayey silt layers & lenses		
10	24.0	25.0	23.0	25.0	Soft gray silty clay w/clayey silt & clay pockets		
11	28.5	29.5	25.0		Loose gray sandy silt w/clay lenses		
12	31.5	32.5		33.5	Loose gray sandy silt w/silty clay & clay layers		
13	34.0	35.0	33.5	36.0	Medium stiff gray clay w/clayey silt & sandy silt lenses		
14	36.5	37.5	36.0		Medium stiff gray clay w/sandy silt lenses		
15	39.0	40.0			Ditto		



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Remarks: _____

CLAY SILT SAND HUMUS

Predominant type shown heavy. Modifying type shown light.

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements

Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.

Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 40 (Cont'd) Soil Technician George Hardee Date 7 November 1985

Ground Elev. _____ Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
16	41.5	42.5			Soft gray clay w/silty sand lenses &		
					layers		
17	44.0	45.0		45.0	Soft gray clay w/sand lenses & pockets		
18	45.0	46.5	45.0	47.0	Medium dense gray fine sand	7	11
19	48.5	50.0	47.0	50.0	Loose gray clayey sand w/sandy clay	2	5
					layers		

DEPTH IN FT.

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Remarks: _____

CLAY SILT SAND HUMUS

Predominant type shown heavy. Modifying type shown light.

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

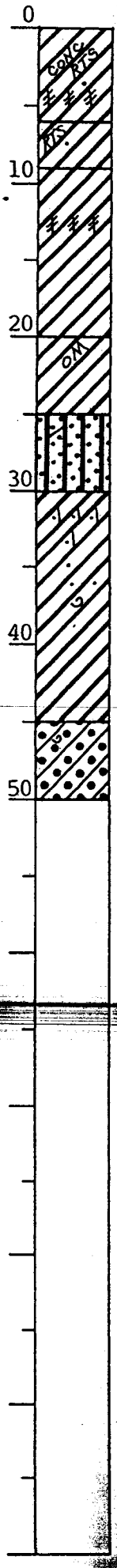
Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 41 Soil Technician R. Elkins Date 26 October 1985

Ground Elev. 6.4 NGVD Datum Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	24460 VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	1.5	2.5	0.0		Stiff gray & tan clay w/concretions,		
					roots & sand		
2	4.5	5.5		6.0	Medium stiff gray & tan clay w/silty		
					clay layers & roots		
3	7.5	8.5	6.0	9.0	Very stiff gray & tan clay w/roots		
					& sand lenses		
4	10.5	11.5	9.0		Medium stiff gray & tan clay		
5	13.5	14.5			Ditto		
6	18.0	19.0		20.0	Medium stiff gray & tan clay w/silty		
					clay layers		
7	23.0	24.0	20.0	25.0	Medium stiff gray clay w/organic matter		
8	28.0	29.0	25.0	30.0	Loose gray sandy silt w/trace of clay		
9	33.0	34.0	30.0		Very soft gray clay w/large sandy silt		
					layers & lenses		
10	38.0	39.0			Ditto		
11	43.0	44.0		45.0	Soft gray clay w/sand lenses, [illegible]		
					& shell fragments		
12	48.0	49.0	45.0	50.0	Loose gray clayey sand w/shell		
					fragments		



*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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CLAY SILT SAND HUMUS

Predominant type shown heavy, modifying type shown light

Remarks:

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

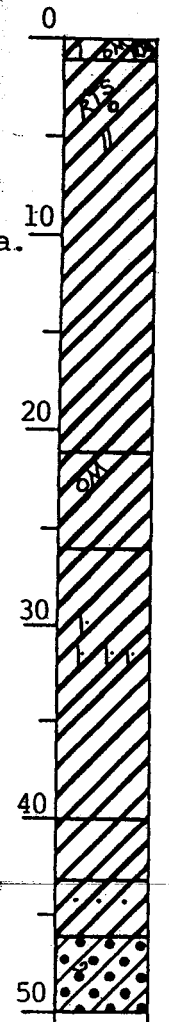
Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 42 Soil Technician S. Porta Date 5 November 1985

Ground Elev. 6.1 NGVD Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	29460 VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	0.0	0.5	0.0	1.0	Medium stiff brown & gray clay w/silt		
					& organic matter & roots		
2	2.5	3.0	1.0		Stiff gray & tan clay w/roots & trace		
					of gravel		
3	5.5	6.0			Stiff gray & tan clay w/silt pockets		
4	8.5	9.0			Ditto		
5	11.5	12.0			Medium stiff gray & tan clay w/silt		
					pockets		
6	14.5	15.0			Stiff gray & tan clay		
7	19.5	20.0		21.0	Stiff tan & gray clay w/silt pockets		
8	24.5	25.0	21.0	26.0	Medium stiff gray clay w/trace of		
					organic matter		
9	29.5	30.0	26.0		Soft gray clay		
10	34.5	35.0			Ditto		
11	39.5	40.0		40.0	Soft gray clay w/silty sand lenses		
					[illegible]		
12	40.0	41.5	40.0	43.0	Soft gray clay	1	21
13	42.5	44.0	43.0	46.0	Soft gray clay w/sand layers	2	1
14	49.5	50.0	46.0	50.0	Loose gray clayey sand w/shells		



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CLAY SILT SAND HUMUS

Remarks: _____

Predominant type shown heavy. Modifying type shown light.

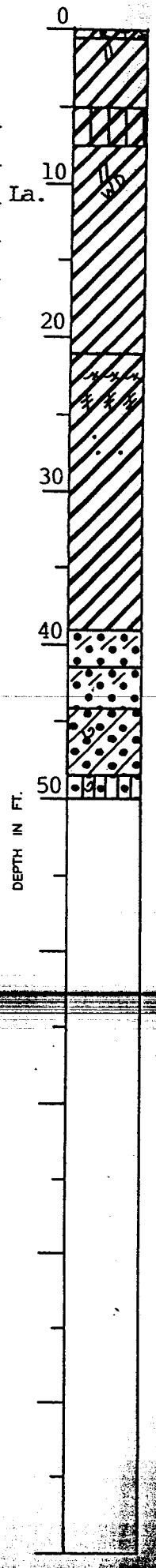
LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana
For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 43 Soil Technician S. Porta Date 5 November 1985
Ground Elev. 5.3 NGVD Datum Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	34+60 VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	0.0	0.5	0.0	0.5	Medium stiff gray & tan clay w/grass roots		
2	2.5	3.0	0.5	5.0	Stiff brown & gray clay w/silt pockets		
3	5.5	6.0	5.0	7.5	Medium stiff gray & tan silty clay		
4	8.5	9.0	7.5		Medium stiff gray & tan clay w/silt pockets		
5	11.5	12.0			Medium stiff gray & tan clay w/wood		
6	14.5	15.0			Medium stiff gray & tan clay		
7	19.5	20.0		21.0	Medium stiff gray & tan clay w/silt pockets		
8	24.5	25.0	21.0		Soft gray clay w/organic clay layers		
9	29.5	30.0			Soft gray clay w/silty clay layers		
10	34.5	35.0			Medium stiff gray clay w/fine sand lenses & pockets		
11	38.5	39.0		39.0	Soft gray clay w/fine sand lenses		
12	39.0	41.0	39.0	41.5	Loose gray sand w/clay layers	4	11
13	41.5	43.0	41.5	44.0	Medium dense gray sand w/clay layers	7	24
14	44.0	45.5	44.0		Loose gray clayey sand w/shells	6	12
15	46.5	48.0		48.5	Ditto	1	4
16	49.5	50.0	48.5	50.0	Loose gray silty sand w/many shell fragments		



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CLAY SILT SAND HUMUS

Predominant type shown heavy, secondary type shown light

Remarks:

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

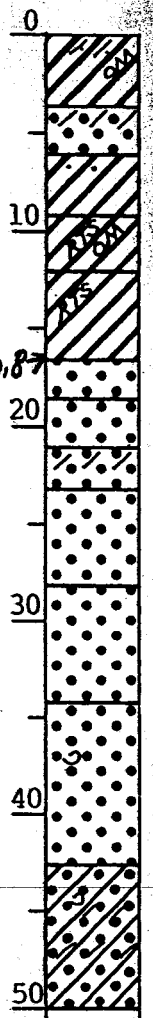
Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 44 Soil Technician George Hardee Date 7 November 1985

Ground Elev. 5.7 NGVD Datum Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	39760 VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	1.5	2.5	0.0	3.5	Medium stiff gray & brown clay w/clayey sand pockets & trace of organic matter		
2	4.5	5.5	3.5	6.0	Loose tan fine sand w/clay layers		
3	8.0	8.5	6.0	9.0	Soft tan & gray clay w/sand pockets		
4	11.5	12.0	9.0	12.0	Soft gray clay w/roots & organic matter		
5	14.5	15.0	12.0	16.5	Medium stiff gray & tan clay w/roots		
6	16.5	18.0	16.5	18.5	Medium dense gray fine sand	2	21
7	19.0	20.5	18.5	21.0	Dense gray fine sand	10	43
8	21.5	23.0	21.0	23.0	Medium dense gray fine sand w/clay layers	5	20
9	24.5	26.0	23.0	28.0	Dense gray fine sand	15	39
10	28.5	30.0	28.0	34.0	Medium dense gray fine sand	10	25
11	33.5	35.0	34.0		Dense gray fine sand	10	32
12	[illegible]	40.5		42.0	Dense gray fine sand w/shells	11	43
13	43.5	45.0	42.5		Loose gray clayey sand	1	4
14	48.5	49.5		50.0	Loose gray clayey sand w/shells, clay pockets & layers		



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Remarks:

CLAY SILT SAND HUMUS

Predominant type shown heavy. Modifying type shown light.

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 45 Soil Technician George Hardee Date 8 November 1985

Ground Elev. 5.7 NGVD Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	4460 VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	1.5	2.5	0.0		Medium stiff tan & gray fissured clay		
					w/silt pockets		
2	4.5	5.5			Medium stiff tan & gray fissured clay		
3	7.5	8.5		9.5	Soft tan & gray fissured clay w/large		
					sand pockets		
			9.5	10.5	Wood		
4	11.5	12.5	10.5		Soft gray & tan clay		
5	14.5	15.5		16.0	Medium stiff gray & tan clay		
6	16.0	17.5	16.0	18.0	Loose gray fine sand	1	6
7	18.5	20.0	18.0	20.5	Dense gray fine sand	17	47
8	21.0	22.5	20.5		Medium dense gray fine sand	10	18
9	23.5	25.0			Medium dense gray fine sand w/clay	6	20
					layers		
10	28.5	30.0		33.0	Ditto	8	29
11	33.5	35.0	33.0	38.0	Dense gray fine sand	10	35
12	[illegible]		[illegible]		[illegible] gray dense gray fine sand [illegible]	[illegible]	50-10"
13	43.5	45.0	41.5	47.0	Medium dense gray fine sand	1	16
14	48.5	50.0	47.0	50.0	Loose gray clayey sand	2	3

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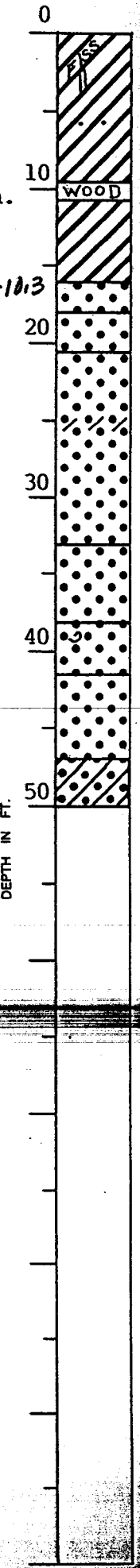
Remarks: 5" Diameter Boring

Predominant type shown heavy. Modifying type shown light.



LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 46 Soil Technician George Hardee Date 8 November 1985

Ground Elev. 5.9 NGVD Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	50+65 VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	1.5	2.5	0.0		Stiff gray & brown clay w/clayey sand		
					pockets & layers		
2	4.5	5.5		6.0	Medium stiff gray & brown clay w/clayey		
					sand pockets & layers		
3	7.5	8.5	6.0	9.0	Medium stiff tan & gray clay w/trace		
					of organic matter		
			9.0	10.5	Wood		
4	11.5	12.5	10.5	13.0	Very soft gray clay w/roots & organic		
					matter		
5	14.0	15.0	13.0	16.0	Soft gray & tan clay w/roots		
6	16.0	17.5	16.0	18.0	Medium dense gray fine sand	1	15
7	18.5	20.0	18.0		Dense gray fine sand	9	42
8	21.0	22.5			Ditto	14	45
9	23.5	25.0		27.0	Ditto	12	39
10	28.5	30.0	27.0	33.0	Medium dense gray fine sand w/clay	9	24
					layers & shells		
11	33.5	35.0	33.0	36.5	Very dense gray fine sand	14	50-10"
12	38.5	40.0	36.5		Medium dense gray fine sand w/clay	2	24
					layers		
13	43.5	45.0		47.0	Ditto	7	30
14	48.5	50.0	47.0	51.5	Soft gray sandy clay w/clay layers	1	3
15	53.5	54.5	51.5		Medium stiff gray clay w/sand pockets		
					& shells		
16	58.5	59.5		59.5	Ditto		
17	63.5	64.5	59.5		Stiff tan & gray clay w/fissures		
18	68.5	69.5		70.0	Stiff tan & gray clay		

*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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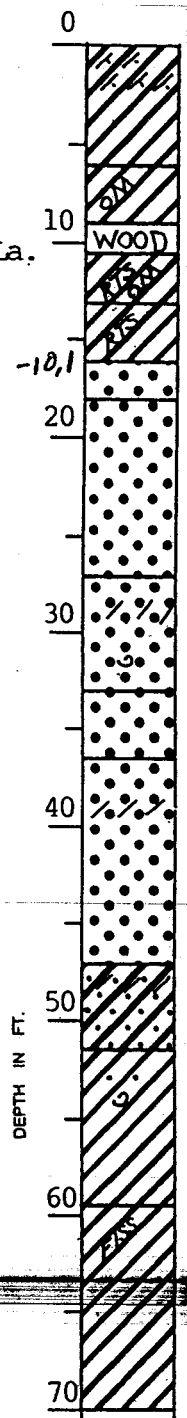
Remarks:

Predominant type shown heavy. Modifying type shown light.



LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 47 Soil Technician A. Croal, Jr. Date 11 November 1985

Ground Elev. 5.5 NGVD Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	55f00 VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	0.0	0.5	0.0	0.5	Stiff dark gray clay w/trace of fine gravel & grass roots		
2	1.2	2.0	0.5	2.5	Soft tan & gray clay w/fine sand layers		
3	3.2	4.0	2.5	4.0	Medium stiff brown & gray clay w/silt pockets & sand lenses		
4	5.2	6.0	4.0	7.0	Soft tan & gray clay w/fine sand & clayey sand layers		
5	7.7	8.5	7.0	9.0	Soft gray clay w/roots & wood		
6	10.7	11.5	9.0	11.5	Extremely soft gray & tan clay w/fine sand pockets & layers		
7	12.0	13.5	11.5	14.5	Dense gray & tan fine sand	5	38
8	14.5	16.0	14.5		Very dense gray & tan fine sand	7	50=9"
9	18.5	20.0		21.0	Ditto	8	50=10"
10	21.0	22.5	21.0	23.5	Dense gray & tan fine sand	10	46
11	23.5	25.0	23.5		Very dense gray & tan fine sand w/many shell fragments	8	50=11"
12	28.5	30.0			Ditto	15	50=9"
13	33.5	35.0			Ditto	13	50=10"
14	38.5	40.0		43.0	Ditto	10	50=8"
15	43.5	45.0	43.0	47.0	Dense gray & tan fine sand w/shell fragments	4	31
16	48.5	50.0	47.0	50.0	Very soft gray & tan clay w/fine sand pockets & few shell fragments	0	1
			-41.5				

*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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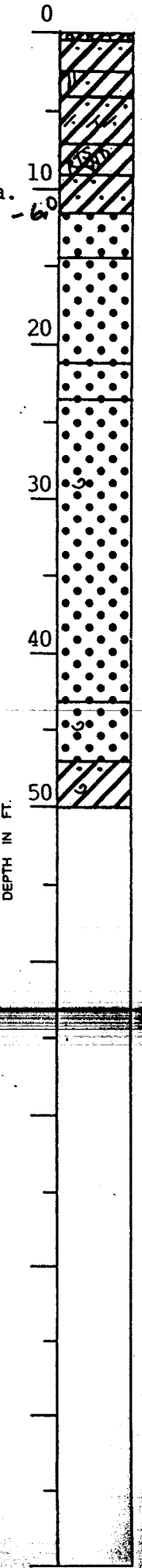
Remarks:

CLAY SILT SAND HUMUS

Predominant type shown heavy, modifying type shown light.



LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

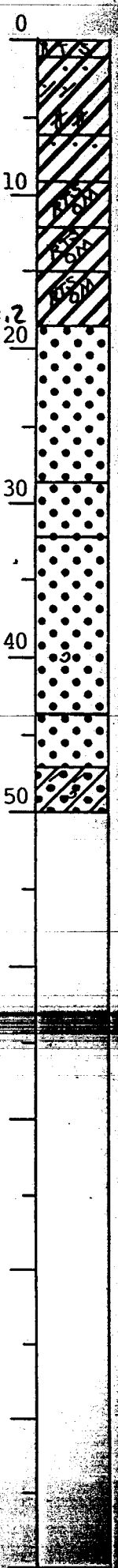
Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 48 Soil Technician A. Croal, Jr. Date 11 November 1985

Ground Elev. 5.3 NGVD Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	60+00 VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	0.0	0.5	0.0	1.0	Very stiff dark gray clay w/grass roots		
2	1.7	2.5	1.0		Stiff gray clay w/sand pockets		
3	4.7	5.5		6.0	Stiff brown & gray clay w/sandy clay & clayey silt pockets		
4	7.7	8.5	6.0	9.0	Soft gray & tan clay w/fine sand layers		
5	10.7	11.5	9.0	12.0	Extremely soft gray clay w/roots & organic matter		
6	13.7	14.5	12.0	15.0	Soft gray clay w/roots & organic matter		
7	17.7	18.5	15.0	18.5	Soft gray clay w/organic matter & large roots		
8	18.5	20.0	18.5		Medium dense gray fine sand	1	14
9	21.0	22.5			Ditto	6	25
10	23.5	25.0			Ditto	4	23
11	26.0	27.5		28.5	Ditto	4	26
12	28.5	30.0	28.5	32.0	Dense gray fine sand	5	38
13	33.5	35.0	32.0	38.5	Medium dense gray fine sand	12	26
14	38.5	40.0		43.5	Medium dense gray fine sand w/shell fragments	5	24
15	43.5	45.0	43.5	47.0	Very dense gray fine sand	13	50=9"
16	48.5	50.0	47.0	50.0	Loose gray clayey sand w/clay pockets & few shell fragments	2	6



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Remarks:

CLAY SILT SAND HUMUS

Predominant type shown heavy. Modifying type shown light.

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

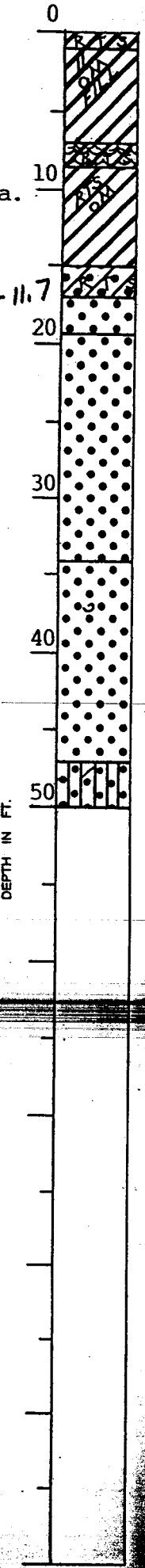
Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 49 Soil Technician A. Croal, Jr. Date 12 November 1985

Ground Elev. 5.3 NGVD Datum Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	6540 VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	0.0	0.5	0.0	1.0	Stiff dark gray clay w/grass roots		
2	1.7	2.5	1.0		Medium stiff tan & gray clay w/silt		
					pockets & brick fragments		
3	4.7	5.5		7.0	Medium stiff tan & gray clay w/silt		
					pockets & trace of organic matter		
					(fill)		
4	7.7	8.5	7.0	8.5	Soft gray & brown organic clay w/humus		
					layers, organic matter & roots		
5	10.7	11.5	8.5		Soft gray clay w/roots & wood		
6	13.7	14.5		15.0	Soft gray clay		
7	17.0	17.5	15.0	17.0	Very loose to loose gray clayey sand		
					w/roots		
8	18.0	18.5	17.0	19.5	Medium dense gray fine sand	3	30
9	19.5	21.0	19.5		Dense gray fine sand	6	37
10	22.0	23.5			Ditto	11	47
11	25.5	26.0			Ditto	7	50
12	28.5	30.0		34.0	Ditto	3	32
13	33.5	35.0	34.0		Very dense gray fine sand	6	50=8"
14	38.5	40.0			Very dense gray fine sand w/few shell	18	50=8"
					fragments		
15	43.5	45.0		47.0	Very dense gray fine sand	4	50=10"
16	48.5	50.0	47.0	50.0	Medium dense gray silty sand w/clay	7	21



*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

WHILE THIS LOG OF BORING IS CONSIDERED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT ITS RESPECTIVE LOCATION ON THE DATE SHOWN, IT IS NOT WARRANTED THAT IT IS REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

CLAY SILT SAND HUMUS

Remarks:

*Predominant type shown heavy, secondary type shown light.

LOG OF BORING

EUSTIS ENGINEERING COMPANY Sheet 1 of 2
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 50 Soil Technician A. Croal, Jr. Date 13 November 1985

Ground Elev. 4.3 NGVD Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	SAMPLE Depth — Feet To	DEPTH STRATUM Feet From	DEPTH STRATUM Feet To	69+85 VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	0.0	0.5	0.0	1.0	Very stiff gray & brown clay w/fine		
					sand lenses, pockets & shell		
					fragments		
2	1.7	2.5	1.0	3.0	Loose tan fine sand		
3	2.5	4.0	3.0	5.0	Medium compact brown & gray clayey silt	3	14
					w/fine sand lenses		
4	5.0	6.5	5.0	6.5	Medium stiff to stiff gray clay w/sandy	2	8
					silt lenses & layers		
5	8.2	9.0	6.5	9.0	Soft dark gray clay w/silt pockets &		
					trace of organic matter		
6	10.7	11.5	9.0	12.5	Soft dark gray clay w/organic matter		
					& roots		
7	13.7	14.5	12.5		Very soft gray clay w/organic matter		
					& wood		
8	18.2	19.0		21.8	Soft gray clay w/organic matter & roots		
9	21.7	22.5	21.8		Loose to medium dense gray fine sand		
10	22.5	24.0			Medium dense gray fine sand	4	26
11	25.0	26.5			Ditto	4	23
12	27.5	29.0			Ditto	3	19
13	30.0	31.5		34.0	Ditto	8	25
14	33.5	35.0	34.0	39.0	Dense gray fine sand w/shell fragments	9	32
15	38.5	40.0	39.0	41.0	Very dense gray fine sand	12	50=11"
16	43.5	45.0	41.0		Medium dense gray silty sand w/few	6	26
					shell fragments		
17	48.5	50.0		53.5	Medium dense gray silty sand	5	27
18	53.5	55.0	53.5	57.5	-53.2 Loose gray silty sand	3	10

*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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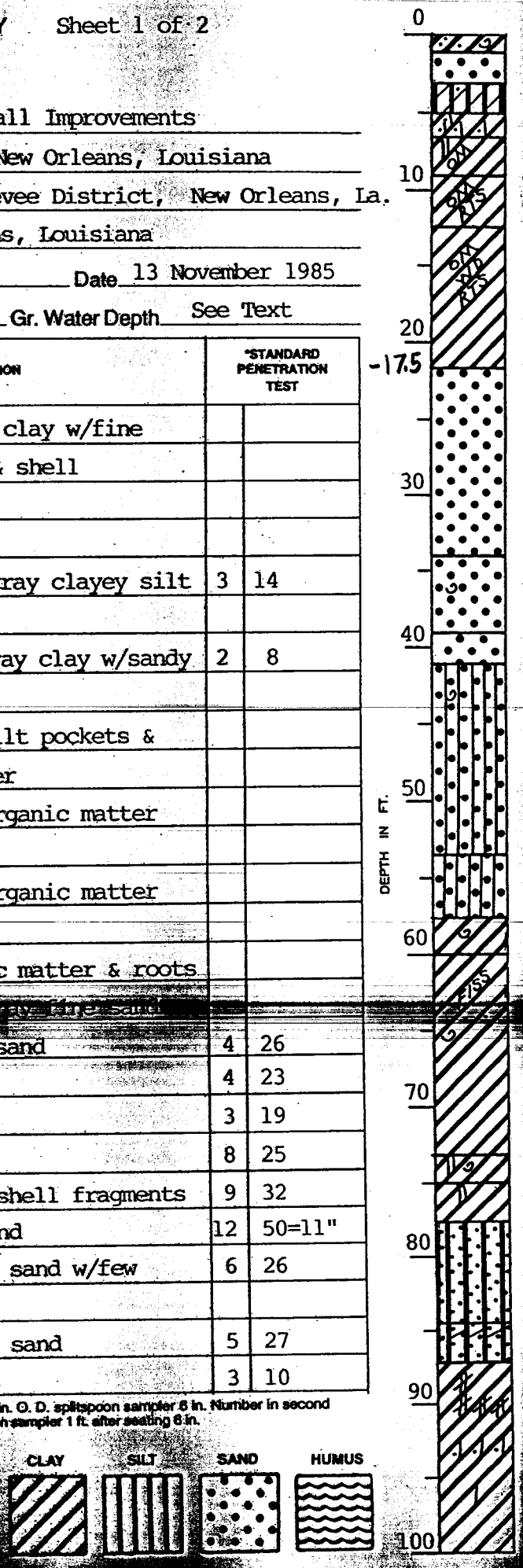
Remarks: _____



LOG OF BORING

EUSTIS ENGINEERING COMPANY Sheet 2 of 2
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 50 (Cont'd) Soil Technician A. Croal, Jr. Date 13 November 1985

Ground Elev. _____ Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
19	58.5	60.0	57.5	60.0	Soft gray clay w/shell fragments	2	4
20	63.2	64.0	60.0	66.0	Medium stiff gray fissured clay w/sand		
					pockets & few shell fragments &		
					vertical fissures.		
21	68.2	69.0	66.0	73.0	Stiff gray clay w/few shell fragments		
22	73.2	74.0	73.0	75.0	Stiff greenish-gray clay w/silt		
					pockets & shells		
23	76.7	77.5	75.0	77.5	Very stiff greenish-gray & tan clay		
					w/few silt pockets		
24	77.5	79.0	77.5		Compact gray sandy silt	9	44
25	80.0	81.5			Ditto	8	35
26	82.5	84.0		84.5	Medium compact gray sandy silt	6	21
27	85.0	86.5	84.5	87.0	Very loose gray sandy silt w/clay	2	2
					layers		
28	88.5	90.0	87.0		Medium stiff gray clay w/clayey silt	2	6
					lenses & layers		
29	91.7	92.5			Medium stiff gray clay w/sandy silt		
				94	layers		
30	96.7	97.5	94	100.0	Stiff gray clay w/silt lenses		

DEPTH IN FT.

*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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CLAY SILT SAND HUMUS

Remarks: _____

Predominant type shown heavy, modifying type shown light.

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 51 Soil Technician A. Croal, Jr. Date 12 November 1985

Ground Elev. 5.0 NGVD Datum Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	0.0	0.5	0.0	1.0	Stiff brown & gray clay w/shell fragments & grass roots		
2	1.7	2.5	1.0	3.0	Medium stiff tan & gray clay w/fine sand & clayey sand pockets		
3	4.7	5.5	3.0	6.5	Medium stiff black & gray clay w/roots & organic matter		
4	7.7	8.5	6.5	9.0	Medium stiff tan & gray clay w/sand layers & trace of organic matter		
5	10.7	11.5	9.0	12.5	Soft gray clay w/roots & organic matter		
6	13.7	14.5	12.5	16.0	Loose gray fine sand w/clayey sand layers, trace of organic matter & few roots		
7	16.0	17.5	16.0	19.0	Medium dense gray fine sand	2	28
8	18.5	20.0	19.0	21.5	Dense gray fine sand	4	36
9	21.0	22.5	21.5		Very dense gray fine sand	8	50=10"
10	23.5	25.0			Ditto	15	50=10"
11	26.0	27.5			Ditto	15	50=9"
12	28.5	30.0			Very dense gray fine sand w/few shell fragments	11	50=8"
13	33.5	35.0			Very dense gray fine sand	9	50=9"
14	38.5	40.0		42.0	Ditto	12	50=9"
15	43.5	45.0	42.0	47.0	Dense gray fine sand	14	41
16	48.5	50.0	47.0	50.0	Loose gray silty sand w/few clay pockets & trace of clay	2	10

*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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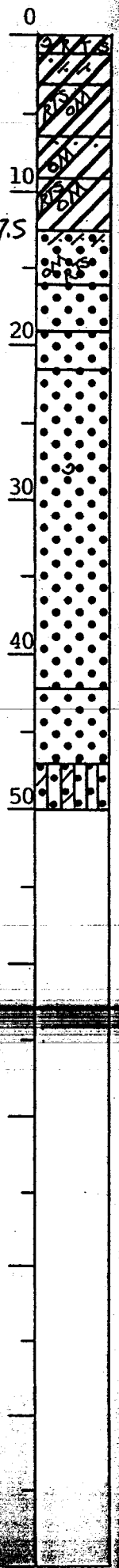
Remarks:

CLAY SILT SAND HUMUS

Predominant type shown heavy. Modifying type shown light.



LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 52 Soil Technician A. J. Mayeux Date 4 December 1985

Ground Elev. 5.0 NGVD Datum Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	2.0	2.5	0.0	3.5	Stiff gray & tan clay w/silt pockets & shell fragments		
2	5.0	5.5	3.5	7.0	Medium stiff gray & tan clay w/silt pockets & trace of organic matter		
3	8.0	8.5	7.0	9.0	Soft gray clay w/organic clay layers, sand pockets & roots (fill)		
4	11.0	11.5	9.0	13.0	Very soft gray clay w/organic matter & roots		
5	14.0	14.5	13.0	17.0	Soft gray clay w/organic matter & roots		
6	19.0	19.5	17.0	20.0	Very loose dark gray & gray clayey sand w/sandy clay layers & roots		
7	20.0	21.5	20.0	22.0	Medium dense gray sand w/organic matter	2	14
8	22.5	24.0	22.0		Dense gray sand	7	32
9	25.0	26.5			Ditto	6	30
10	28.5	30.0			Ditto	5	42
11	[illegible]	[illegible]			Ditto	[illegible]	37
12	38.5	40.0		43.0	Ditto	8	35
13	43.5	45.0	43.0		Loose gray sand w/shell fragments	1	5
14	48.5	50.0		50.0	Ditto	2	6

*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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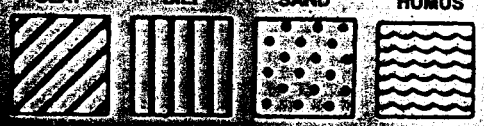
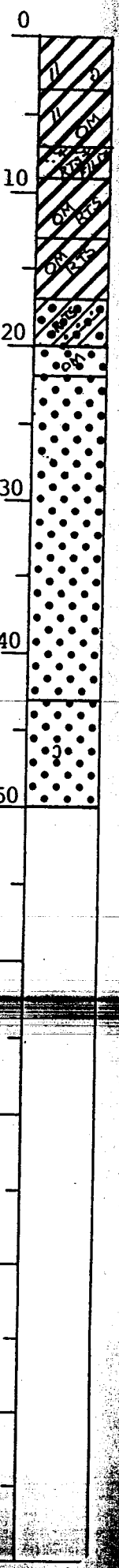
Remarks:



Predominant type shown heavy. Modifying type shown light.



LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana
For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 53 Soil Technician A. J. Mayeux Date 4 December 1985
Ground Elev. 5.0 NGVD Datum Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	2.0	2.5	0.0		Medium stiff gray & tan clay w/sand		
					lenses & pockets & trace of organic		
					matter		
2	5.5	6.0			Medium stiff gray & tan clay w/sand		
					pockets		
3	8.0	8.5		9.0	Medium stiff gray & tan clay w/vertical		
					sand layers, organic matter & bricks		
	11.0	11.5	9.0	11.5	Wood w/organic matter & clay		
4	14.0	14.5	11.5	15.0	Soft gray & tan clay w/decayed roots		
5	15.0	16.5	15.0	17.0	Loose gray sand	1	5
6	17.5	19.0	17.0		Medium dense gray sand	2	13
7	20.0	21.5			Ditto	4	19
8	23.5	25.0		28.0	Ditto	2	15
9	28.5	30.0	28.0		Dense gray sand	5	35
10	33.5	35.0			Ditto	10	48
11	38.5	40.0		41.5	Ditto	7	32
12	43.5	45.0	41.5	47.0	Medium dense gray sand w/shell	5	19
					fragments		
13	48.5	50.0	47.0	52.0	Loose gray sand w/shell fragments	2	8
14	53.5	55.0	52.0	56.5	Medium stiff gray clay w/sand layers	1	4
15	59.0	59.5	56.5	62.0	Stiff gray & tan clay w/sand pockets &		
					shell fragments		
16	64.0	64.5	62.0	66.0	Stiff gray clay w/sand pockets		
17	69.0	69.5	66.0	70.0	Medium stiff gray clay w/shell		
					fragments		

*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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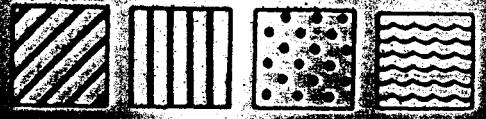
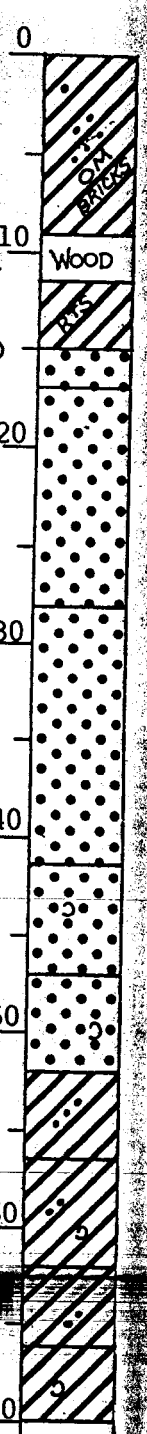
Remarks:



Predominant type shown heavy. Modifying type shown light.



LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

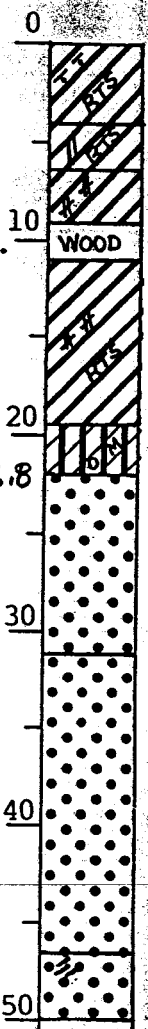
Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 54 Soil Technician A. J. Mayeux Date 6 December 1985

Ground Elev. 5.2 NGVD Datum Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	89775 VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	2.0	2.5	0.0	4.0	Very stiff brown & gray clay w/clayey		
					sand pockets & roots		
2	5.0	5.5	4.0	6.5	Medium stiff gray clay w/silt pockets &		
					roots		
3	8.0	8.5	6.5	9.0	Medium stiff gray & tan clay w/clayey		
					silt pockets		
			9.0	11.0	Wood w/some clay		
4	14.0	14.5	11.0		Soft gray clay w/clayey silt pockets &		
					roots		
5	19.0	19.5		19.5	Soft gray clay w/roots		
6	20.0	21.5	19.5	22.0	Loose gray clayey silt w/trace of	3	8
					organic matter		
7	22.5	24.0	22.0		Medium dense gray sand	3	15
8	25.0	26.5			Ditto	4	16
9	28.5	30.0		31.0	Ditto	5	30
10	33.5	35.0	31.0		Dense gray sand	7	37
11	38.5	40.0			Ditto	9	38
12	43.5	45.0		46.5	Ditto	8	33
13	48.5	50.0	46.5	50.0	Loose gray sand w/clay layers	1	4



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Remarks:

CLAY SILT SAND HUMUS

Predominant type shown first. Modifying type shown light.

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

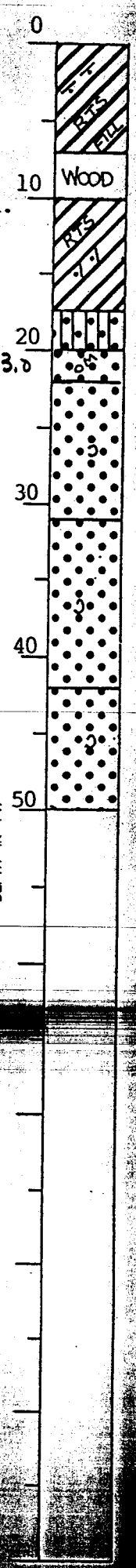
For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 55 Soil Technician A. J. Mayeux Date 6 December 1985

Ground Elev. 4.5 NGVD Datum Gr. Water Depth See Text

94775

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	2.0	2.5	0.0		Medium stiff gray & brown clay w/clayey		
					sand pockets, roots & fill		
2	5.0	5.5		7.0	Medium stiff gray & brown clay w/clayey		
					silt pockets & roots		
			7.0	10.0	Wood w/clay & organic matter		
3	11.0	11.5	10.0		Soft gray clay w/roots & fine sandy		
					silt pockets		
4	14.0	14.5		17.5	Soft gray clay w/roots		
5	19.0	19.5	17.5	20.0	Medium dense gray silty sand		
6	20.0	21.5	20.0	22.0	Loose gray sand w/trace of organic	1	5
					matter		
7	22.5	24.0	22.0		Medium dense gray sand w/shell	4	17
					fragments		
8	25.0	26.5			Ditto	4	20
9	28.5	30.0		31.0	Ditto	4	26
10	33.5	35.0	31.0		Dense gray sand w/shell fragments	10	48
11	38.5	40.0		42.0	Ditto	8	39
12	43.5	45.0	42.0		Medium dense gray sand w/shell	4	13
					fragments		
13	48.5	50.0		50.0	Ditto	2	10



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Remarks:

CLAY SILT SAND HUMUS

Predominant type shown heavy. Modifying type shown light.

LOG OF BORING

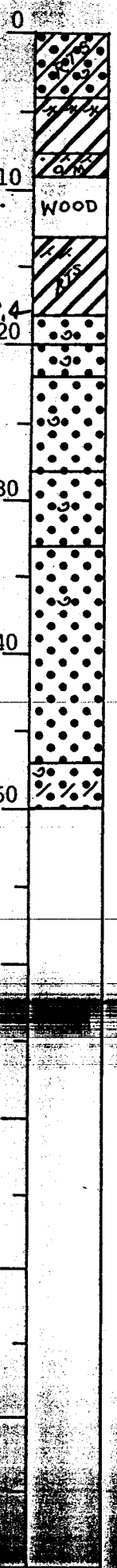
EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana
For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 56 Soil Technician A. J. Mayeux Date 5 December 1985
Ground Elev. 4.6 NGVD Datum Gr. Water Depth -13.4

99+75

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	2.0	3.0	0.0	4.0	Medium stiff brown & gray clayey sand w/roots & few shell fragments		
2	5.0	6.0	4.0	7.5	Soft brown & gray clay w/organic clay layers		
3	8.0	9.0	7.5	9.0	Soft dark gray & brown clay w/sand lenses, clayey sand pockets & trace of organic matter		
	11.0	11.5	9.0	13.0	Wood w/clay & organic matter		
4	14.0	15.0	13.0	18.0	Extremely soft gray clay w/clayey sand pockets & roots		
5	18.0	19.0	18.0	20.0	Very loose gray sand w/shell fragments		
6	20.0	21.5	20.0	22.0	Loose gray sand w/shell fragments	2	5
7	22.5	24.0	22.0		Medium dense gray sand w/shell fragments	2	12
8	25.0	26.5		28.0	Ditto	5	18
[illegible]	[illegible]	[illegible]	[illegible]	33.0	Dense gray sand w/shell fragments	[illegible]	42
10	33.5	35.0	33.0		Very dense gray sand w/shell fragments	9	54
11	38.5	40.0			Ditto	8	56
12	43.5	45.0		47.0	Ditto	13	50=10"
13	48.5	50.0	47.0	50.0	Medium dense gray sand w/shell fragments & clay layers	2	11



*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

WHILE THIS LOG OF BORING IS CONSIDERED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT ITS RESPECTIVE LOCATION ON THE DATE SHOWN, IT IS NOT WARRANTED THAT IT IS REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

Remarks: 5" Diameter Boring

CLAY SILT SAND HUMUS

Predominant type shown heavy; Modifying type shown light

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

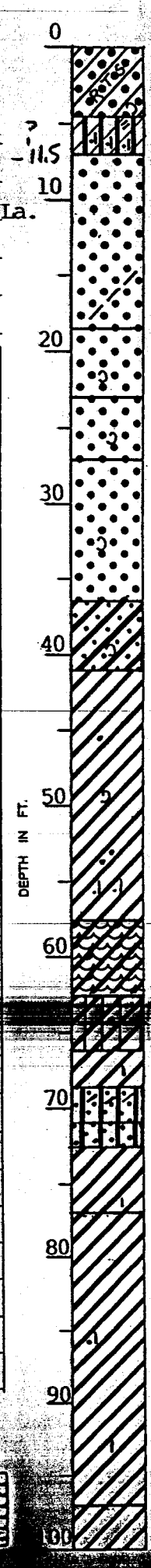
Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 57 Soil Technician A. J. Mayeux Date 9 December 1985

Ground Elev. -4.5 NGVD Datum Geological Profile Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	VISUAL CLASSIFICATION 102+95	*STANDARD PENETRATION TEST	
1	2.0	2.5	0.0	4.5	Medium dense brown & gray clayey sand w/roots & few shell fragments		
2	5.0	5.5	4.5	7.0	Medium compact gray clayey silt w/sandy silt layers & clay pockets		
3	7.0	8.5	7.0		Very loose gray sand w/clay layers	0	1
4	9.0	10.5			Ditto	0	1
5	11.5	13.0			Ditto	0	3
6	14.0	15.5		18.5	Ditto	1	2
7	18.5	20.0	18.5	23.0	Medium dense gray sand w/shell fragments	2	11
8	23.5	25.0	23.0	27.0	Dense gray sand w/shell fragments	7	34
9	28.5	30.0	27.0		Medium dense gray sand w/shell fragments	7	20
10	33.5	35.0		36.5	Ditto	7	12
11	38.5	40.0	36.5	41.0	Soft gray sandy clay w/shell fragments	0	2
	44.0	44.5	41.0		Medium stiff gray clay w/sand pockets & shell fragments		
13	49.0	49.5			Medium stiff gray clay w/sand pockets & shell fragments		
14	54.0	54.5		57.5	Medium stiff gray clay w/fine sandy silt pockets		
15	59.0	59.5	57.5	62.5	Stiff dark gray organic clay		
16	64.0	64.5	62.5	66.0	Stiff greenish-gray silty clay w/fine sand		
17	67.0	67.5	66.0	68.5	Stiff greenish-gray & tan clay w/silt lenses		



*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

WHILE THIS LOG OF BORING IS CONSIDERED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT ITS RESPECTIVE LOCATION ON THE DATE SHOWN, IT IS NOT WARRANTED THAT IT IS REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

CLAY SILT SAND HUMUS

Predominant type shown heavy. Modifying type shown light.

Remarks:

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 57 (Cont'd) Soil Technician A. J. Mayeux Date 9 December 1985

Ground Elev. _____ Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
18	68.5	70.0	68.5	71.0	Loose greenish-gray sandy silt w/clay layers	2	7
19	71.0	72.5	71.0	72.5	Medium compact greenish-gray sandy silt	4	12
20	73.5	75.0	72.5	77.0	Medium stiff gray clay w/silt lenses	1	5
21	79.0	79.5	77.0		Stiff gray clay w/fine sandy silt lenses		
22	84.0	84.5			Ditto		
23	89.0	89.5			Stiff gray clay w/silt lenses		
24	94.0	94.5		97.0	Ditto		
25	99.0	99.5	97.0	100.0	Medium stiff gray clay		

DEPTH IN FT.

*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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Predominant type shown heavy. Modifying type shown light.

Remarks:

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

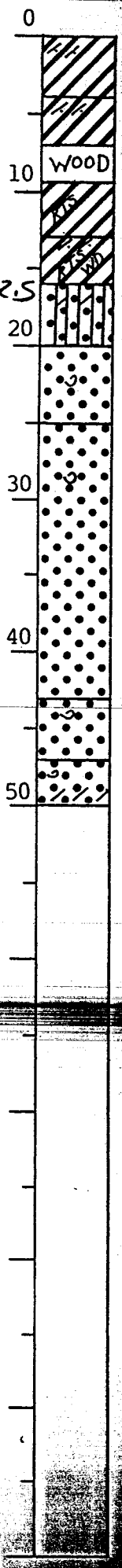
Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 58 Soil Technician A. J. Mayeux Date 7 December 1985

Ground Elev. 3.5 NGVD Datum Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	104+75 VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	2.0	2.5	0.0	4.0	Stiff gray & brown clay w/clayey sand pockets		
2	5.0	5.5	4.0	7.0	Medium stiff gray clay w/clayey sand pockets		
3	8.0	8.5	7.0	9.5	Wood w/some clay		
4	11.0	11.5	9.5	13.0	Soft dark gray clay w/many roots		
5	14.0	14.5	13.0	16.0	Very soft gray clay w/clayey sand pockets, roots & wood		
6	19.0	19.5	16.0	20.0	Dense gray silty sand w/clay pockets		
7	20.0	21.5	20.0		Loose gray sand w/shell fragments	1	5
8	22.5	24.0		25.0	Ditto	1	7
9	25.0	26.5	25.0		Medium dense gray sand w/shell fragments	4	22
10	28.5	30.0			Ditto	4	22
11	33.5	35.0			Ditto	6	21
12	[illegible]	40.0		45.0	Ditto	[illegible]	15
13	43.5	45.0	43.0	47.0	Loose gray sand w/shell fragments	5	10
14	48.5	50.0	47.0	50.0	Very loose gray sand w/shell fragments & clay layers	1	4



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CLAY SILT SAND HUMUS

Predominant type shown heavy. Modifying type shown light.

Remarks:

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

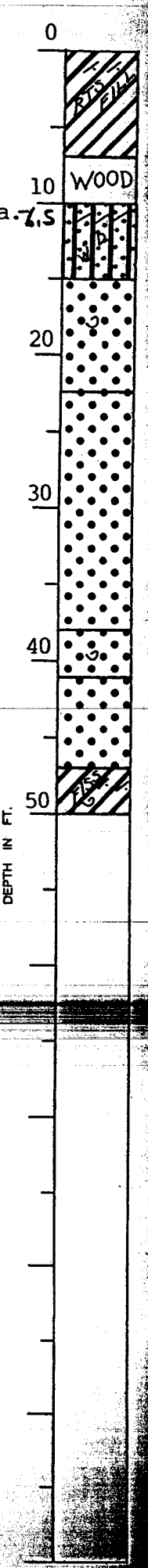
Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 59 Soil Technician A. J. Mayeux Date 7 December 1985

Ground Elev. 3.5 NGVD Datum Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	109+75 VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	2.0	2.5	0.0		Soft brown & gray clay w/clayey sand		
					pockets, roots & some fill		
2	5.0	5.5		7.0	Medium stiff dark gray & brown clay		
					w/clayey sand pockets & roots		
	8.0	8.5	7.0	10.0	Wood w/organic matter & some clay		
3	11.0	11.5	10.0	15.0	Medium compact gray sandy silt w/clay		
					layers & wood		
4	15.0	16.5	15.0		Loose gray sand w/shell fragments	2	5
5	17.5	19.0			Ditto	2	7
6	20.0	21.5		22.5	Ditto	2	4
7	22.5	24.0	22.5		Medium dense gray sand	3	12
8	25.0	26.5			Ditto	3	12
9	28.5	30.0			Ditto	3	15
10	33.5	35.0		38.0	Ditto	5	26
11	38.5	40.0	38.0	41.0	Loose gray sand w/shell fragments	2	9
12	[illegible]	[illegible]	[illegible]	[illegible]	Loose gray sand	2	5
13	49.0	49.5	47.0	50.0	Medium stiff gray fissured clay		
					w/clayey sand pockets & shell		
					fragments		



*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

WHILE THIS LOG OF BORING IS CONSIDERED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT ITS RESPECTIVE LOCATION ON THE DATE SHOWN, IT IS NOT WARRANTED THAT IT IS REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

CLAY SILT SAND HUMUS

Predominant type shown heavy; secondary type shown light.

Remarks:

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

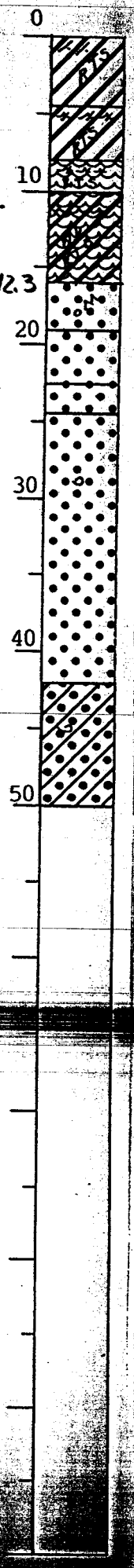
For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 60 Soil Technician A. J. Mayeux Date 7 December 1985

Ground Elev. 3.7 NGVD Datum _____ Gr. Water Depth See Text

114+75

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	2.0	2.5	0.0	4.5	Stiff brown & gray clay w/clayey sand pockets & roots		
2	5.0	5.5	4.5	8.0	Soft gray & tan clay w/organic clay layers & roots		
3	8.0	8.5	8.0	10.0	Extremely soft brown humus w/organic clay layers & roots		
4	11.0	11.5	10.0	16.0	Soft brown organic clay w/humus layers, wood & roots		
5	17.0	17.5	16.0	19.0	Very loose gray sand w/organic matter		
6	20.0	21.5	19.0	22.5	Very loose gray sand	1	2
7	22.5	24.0	22.5	24.5	Loose gray sand	1	6
8	25.0	26.5	24.5		Medium dense gray sand w/shell fragments	2	11
9	28.5	30.0			Ditto	2	14
10	33.5	35.0			Ditto	2	11
11	[illegible]				Ditto	5	13
12	43.5	45.0	42.0		Very loose gray clayey sand w/shell fragments	0	2
13	49.0	49.5		50.0	Ditto		



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THIS LOG OF BORING IS CONSIDERED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT ITS ACTIVE LOCATION ON THE DATE SHOWN, IT IS NOT WARRANTED THAT IT IS REPRESENTATIVE OF SURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

CLAY SILT SAND HUMUS

Predominant type shown heavy. Additional type shown light.

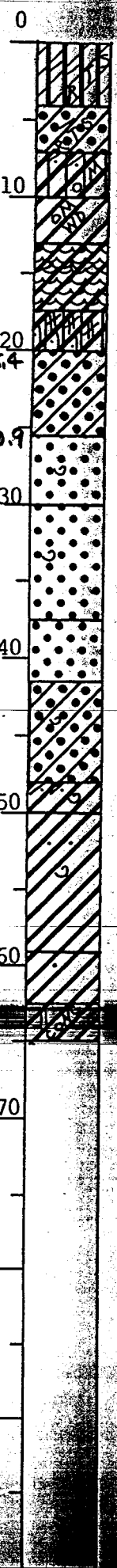
LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana
For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 61 Soil Technician A. J. Mayeux Date 10 December 1985
Ground Elev. 4.6 NGVD Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	VISUAL CLASSIFICATION 119+75	*STANDARD PENETRATION TEST	
1	2.0	2.5	0.0	4.0	Very compact tan & gray clayey silt w/clay pockets & roots		
2	5.0	5.5	4.0	7.0	Dense tan & gray clayey sand w/clay lenses & roots		
3	8.0	8.5	7.0	10.0	Soft gray silty clay w/clayey sand pockets & trace of organic matter		
4	11.0	11.5	10.0	13.0	Medium stiff dark gray clay w/organic matter & wood		
5	14.0	14.5	13.0	17.5	Stiff brown organic clay w/humus layers		
6	19.0	19.5	17.5	20.0	Soft gray silty clay w/alternating clayey silt & sandy silt layers		
7	20.0	21.5	20.0	-15.4	Very loose gray clayey sand	1	4
8	22.5	24.0		25.5	Ditto	0	2
9	25.0	26.5	25.5		Loose gray sand w/shell fragments	1	7
10	28.5	30.0		30.0	Ditto	2	10
[illegible]					Medium dense gray [illegible] w/shell fragments	4	15
12	38.5	40.0	37.5	41.5	Dense gray sand	6	34
13	43.5	45.0	41.5	48.0	Loose gray clayey sand w/shell fragments	1	4
14	49.0	49.5	48.0	50.0	Soft gray clay w/clayey sand pockets & shell fragments		
15	54.0	54.5	50.0	59.0	Medium stiff gray clay w/sand pockets & & shell fragments		
16	59.0	59.5	59.0	62.5	Stiff greenish-gray & tan clay w/trace of sand		



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WHILE THIS LOG OF BORING IS CONSIDERED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT ITS RESPECTIVE LOCATION ON THE DATE SHOWN, IT IS NOT WARRANTED THAT IT IS REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

CLAY SILT SAND HUMUS

Remarks:

Predominant type shown heavy, modifying type shown light.

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 61 (Cont'd) Soil Technician A. J. Mayeux Date 10 December 1985

Ground Elev. _____ Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	SAMPLE Depth — Feet To	DEPTH STRATUM Feet From	DEPTH STRATUM Feet To	VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
17	64.0	64.5	62.5	65.0	Very stiff tan & gray clay w/silt pockets & concretions		

DEPTH IN FT.

*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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CLAY SILT SAND HUMUS

Predominant type shown heavy. Modifying type shown light.

Remarks:

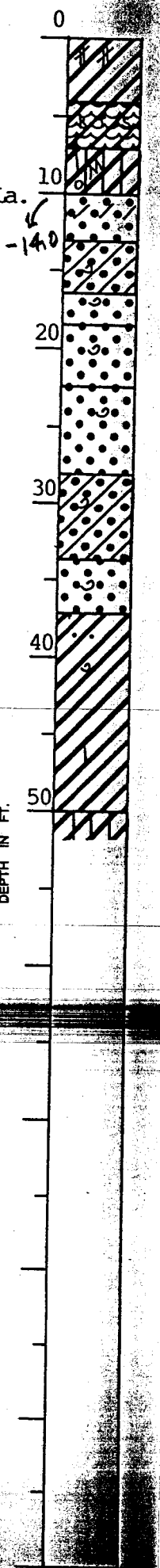
LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana
For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 62 Soil Technician A. J. Mayeux Date 7 November 1985
Ground Elev. -4.0 NGVD Datum → Based on Geological Profile Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	124+75 VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	2.0	2.5	0.0	4.0	Medium stiff tan & gray clay w/clayey		
					silt pockets		
2	5.0	5.5	4.0	7.0	Soft brown organic clay w/many roots		
3	8.0	8.5	7.0	10.0	Very soft gray silty clay w/silt lenses		
					& organic matter		
4	11.0	11.5	10.0	13.0	Very loose gray sand w/clay layers		
5	13.5	15.0	13.0	16.5	Very loose gray clayey sand w/shell	1	3
					fragments		
6	18.0	18.5	16.5	18.5	Very loose gray sand w/shell fragments		
7	18.5	20.0	18.5		Loose gray sand w/shell fragments	4	10
8	21.0	22.5		22.5	Ditto	3	10
9	23.5	25.0	22.5		Medium dense gray sand w/shell fragments	3	14
10	26.0	27.5		28.0	Ditto	5	17
11	28.5	30.0	28.0		Loose gray clayey sand w/shell fragments	3	9
12	32.0	32.5		33.5	Ditto		
[illegible]					Dense gray sand w/shell fragments	8	34
14	38.5	40.0	37.0		Medium stiff gray clay w/sand pockets	2	5
					& shell fragments		
15	44.0	44.5			Ditto		
16	49.0	49.5		50.0	Medium stiff gray clay w/trace of silt		
			50.0		Stiff greenish-gray silty clay		



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CLAY SILT SAND HUMUS

Predominant type shown heavy. Modifying type shown light.

Remarks:

LOG OF BORING

EUSTIS ENGINEERING COMPANY Sheet 1 of 2
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

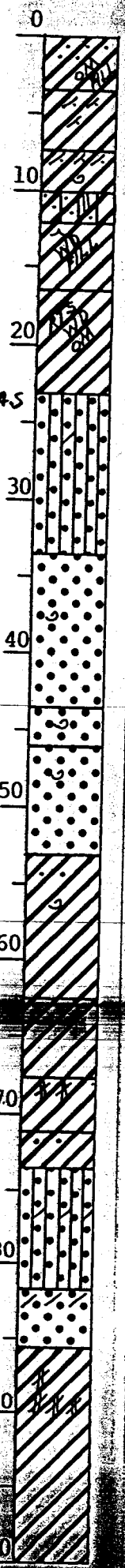
Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 63 Soil Technician A. J. Mayeux Date 8 November 1985

Ground Elev. 8.5 NGVD Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	128460 VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	2.0	2.5	0.0	3.5	Medium stiff tan & gray clay w/sand layers & pockets & organic matter (fill)		
2	5.0	5.5	3.5	7.5	Stiff gray clay w/clayey sand pockets & lenses		
3	8.0	8.5	7.5	10.0	Soft brown & gray clay w/dense clayey sand layers & few shell fragments		
4	11.0	11.5	10.0	12.0	Soft brown & gray silty clay w/fine sand & silt pockets & layers		
5	14.0	14.5	12.0	16.5	Medium stiff dark gray clay w/humus & wood (fill)		
6	19.0	19.5	16.5	23.0	Soft gray clay w/roots, wood & organic matter		
7	24.0	24.5	23.0		Medium dense gray silty sand w/clay lenses		
8	[illegible]			33.5	[illegible]		
9	33.5	35.0	33.5		Medium dense gray sand w/shell fragments	3	17
10	36.0	37.5			Ditto	8	25
11	38.5	40.0			Ditto	3	19
12	41.0	42.5		43.5	Ditto	3	15
13	43.5	43.0	43.5	46.0	Dense gray sand w/shell fragments	5	32
14	48.5	50.0	46.0	53.0	Medium dense gray sand w/shell fragments	5	16
15	53.5	55.0	53.0		Medium stiff gray clay w/fine sand pockets & shell fragments	1	4
16	59.0	59.5		62.5	Ditto		



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Remarks:

CLAY SILT SAND HUMUS

Predominant type shown heavy. Modifying type shown light.

9/13

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvments
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 63 (Cont'd) Soil Technician A. J. Mayeux Date 8 November 1985

Ground Elev. _____ Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
17	64.0	64.5	62.5	67.5	Stiff greenish-gray clay w/trace of sand		
18	69.0	69.5	67.5	71.0	Stiff greenish-gray & tan clay w/clayey silt pockets		
19	73.0	73.5	71.0	73.5	Very stiff tan & gray clay w/sand pockets		
20	73.5	75.0	73.5		Dense tan silty sand w/clay layers	6	36
21	78.5	80.0		81.5	Ditto	6	33
22	83.5	85.0	81.5	85.5	Medium dense tan & gray sand w/clay layers	5	14
23	89.0	89.5	85.5		Medium stiff gray clay w/clayey silt lenses & layers		
24	94.0	94.5			Ditto		
25	99.0	99.5		100.0	Ditto		

DEPTH IN FT.

*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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Predominant type shown heavy, modifying type shown light.

Remarks:

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

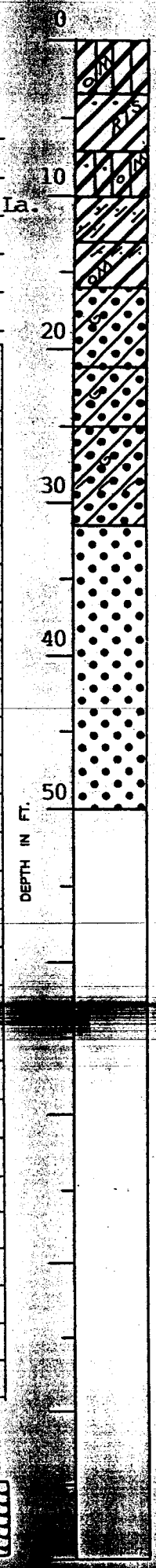
Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk and Associates, Inc., New Orleans, Louisiana

Boring No. 64 Soil Technician A. J. Mayeux Date 8 November 1985

Ground Elev. 1.5 NGVD Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	134+00 VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	2.0	2.5	0.0	3.5	Very stiff brown & gray silty clay w/some organic matter		
2	5.0	5.5	3.5	7.0	Medium stiff gray clay w/many sand pockets & roots		
3	8.0		7.0	10.0	Medium stiff brown & gray silty clay w/sand pockets & organic matter		
4	11.0	11.5	10.0	13.0	Medium stiff gray clay w/sandy clay layers & pockets		
5	14.0	14.5	13.0	16.0	Extremely soft gray clay w/vertical clayey sand layers & organic matter		
6	16.0	17.5	16.0		Very loose gray clayey sand w/shell fragments	3	3
7	18.5	20.0		21.0	Ditto	1	4
8	21.0	22.5	21.0		Loose gray clayey sand w/shell fragments	1	5
9	23.5	25.0		25.0	Ditto	1	6
10	28.5	30.0	25.0	31.5	Very loose gray clayey sand w/shell fragments & clay layers	1	4
11	33.5	35.0	31.5		Medium dense gray sand	3	12
12	38.5	40.0			Ditto	6	26
13	43.5	45.0			Ditto	6	25
14	48.5	50.0		50.0	Ditto	5	22



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Remarks:

Predominant type shown heavy. Modifying type shown light.

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

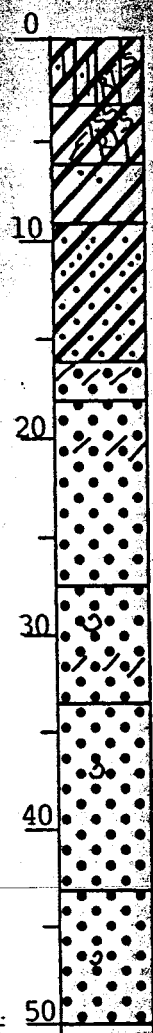
Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 65 Soil Technician A. J. Mayeux Date 3 December 1985

Ground Elev. 3.0 NGVD Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	139400 VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	2.0	3.0	0.0	3.0	Stiff brown & gray silty clay w/sandy		
					silt pockets & roots		
2	5.0	6.0	3.0	6.0	Stiff gray & tan fissured clay w/roots		
					& silt		
3	8.0	9.0	6.0	9.0	Medium stiff gray & tan clay w/sand		
					pockets		
4	11.0	12.0	9.0		Soft gray sandy clay w/sand lenses &		
					layers		
	14.0	15.0		16.0	Ditto		
5	16.0	17.0	16.0	18.0	Very loose gray sand w/clay layers		
6	18.0	19.5	18.0		Loose gray sand w/clay layers	1	4
7	21.0	22.5			Ditto	1	4
8	23.5	25.0			Ditto	1	4
9	26.0	27.5		27.5	Ditto	1	3
10	28.5	30.0	27.5	33.5	Very loose gray sand w/shell fragments	0	1
					& clay layers		
11	33.5	35.0	33.5		Loose gray sand w/shell fragments	0	4
12	38.5	40.0		43.0	Ditto	2	7
13	43.5	45.0	43.0		Medium dense gray sand w/shell	3	12
					fragments		
14	48.5	50.0		50.0	Ditto	5	13



*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O.D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O.D. splitspoon sampler 1 ft. after seating 6 in.

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CLAY SILT SAND HUMUS

Remarks: 5" Diameter Boring

Predominant type shown heavy. Modifying type shown light.

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana
For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 66 Soil Technician A. J. Mayeux Date 3 December 1985
Ground Elev. 4.1 NGVD Datum Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	143F00 VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	2.0	2.5	0.0	3.0	Compact brownish-gray clayey silt w/roots, trace of sand & few shells		
2	5.0	5.5	3.0	7.0	Loose brownish-gray clayey silt w/sand & shells		
3	8.0	8.5	7.0	10.0	Medium stiff brownish-gray clay w/clayey sand pockets		
4	11.0	11.5	10.0	13.0	Very soft gray clay w/shell fragments & clayey sand layers & pockets		
5	14.0	14.5	13.0		Loose gray silty sand w/clay pockets & shell fragments		
6	19.0	19.5			Loose gray silty sand w/many shells		
7	24.0	24.5		27.5	Loose gray silty sand w/silty clay layers		
8	29.0	29.5	27.5		Very loose gray sand w/shell fragments & clay layers		
9	30.0	[illegible]		32.5	Ditto	1	2
10	32.5	34.0	32.5		Loose gray sand w/shell fragments & clay layers	1	5
11	35.0	36.5			Ditto	1	4
12	38.5	40.0		43.0	Ditto	1	5
13	43.5	45.0	43.0		Medium dense gray sand w/shell fragments	4	19
14	48.5	50.0		50.0	Ditto	4	17

*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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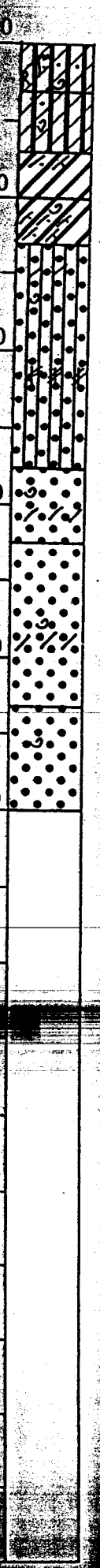
Remarks:



CLAY SILT SAND HUMUS

Predominant type shown heavy. Modifying type shown light.

LOG OF BORING

EUSTIS ENGINEERING COMPANY

SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 67 Soil Technician A. J. Mayeux Date 3 December 1985

Ground Elev. 4.0 NGVD Datum Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	2.0	2.5	0.0	3.5	Very compact brownish-gray clayey silt w/sand pockets & roots		
2	5.0	5.5	3.5	7.0	Stiff brownish-gray clay w/silt pockets & some fill		
3	8.0	8.5	7.0	10.0	Soft gray & tan clay w/sand pockets & shell fragments		
4	11.0	11.5	10.0	12.5	Loose gray silty sand w/clayey sand layers		
5	14.0	14.5	12.5		Soft gray clay w/sand pockets & shell fragments		
6	19.0	19.5		21.0	Soft gray clay		
7	24.0	24.5	21.0	28.5	Loose gray clayey sand w/shells		
8	28.5	30.0	28.5	31.0	Loose gray silty sand	2	7
9	31.5	33.0	31.0		Very loose gray clayey sand w/shell fragments & clay layers	0	2
10	36.0	[illegible]		38.5	Ditto	0	3
11	38.5	40.0	38.5		Medium dense gray sand w/shell fragments	3	13
12	43.5	45.0			Ditto	2	11
13	48.5	50.0		50.0	Ditto	4	25

*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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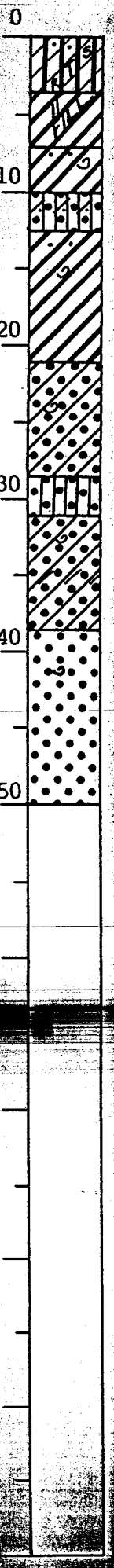
Remarks:



Predominant type shown heavy. Modifying type shown light.

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 68 Soil Technician A. J. Mayeux Date 2 December 1985

Ground Elev. 3.8 NGVD Datum Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	2.0	2.5	0.0	4.5	Extremely stiff brown & gray silty clay w/sand pockets & roots		
2	5.0	5.5	4.5	8.0	Loose brown & gray clayey silt w/clay layers & shells		
3	8.0	8.5	8.0		Soft dark gray silty clay w/clayey silt layers & shell fragments		
	11.0	11.5		11.5	Ditto		
4	~~14.0~~	~~14.5~~	11.5		~~Soft gray clay w/silt pockets~~		
5	19.0	19.5		21.0	Soft gray clay w/sand pockets & shell fragments		
6	24.0	24.5	21.0	28.5	Very loose gray clayey silt w/shells		
7	29.0	29.5	28.5	34.0	Very loose gray clayey sand w/large shell fragments & sandy clay layers		
8	34.0	34.5	34.0	37.0	Medium stiff gray clay w/sand pockets		
9	39.0	39.5	37.0	40.0	Loose gray clayey sand w/shell fragments		
10	40.0	41.5	40.0		Loose gray sand w/shell fragments	2	10
11	42.5	44.0			Ditto	2	7
12	45.0	46.5		48.0	Ditto	3	9
13	48.5	50.0	48.0	50.0	Medium dense gray sand w/shell fragments	2	12

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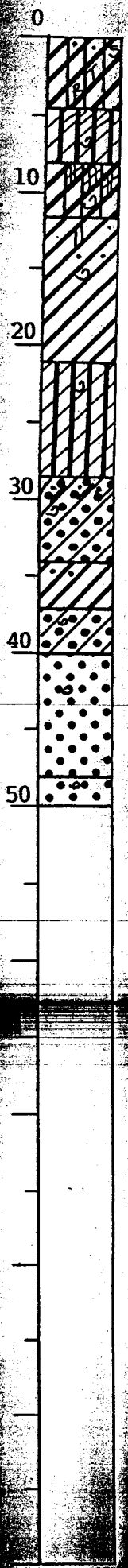
Remarks:

Predominant type shown heavy. Modifying type shown light.



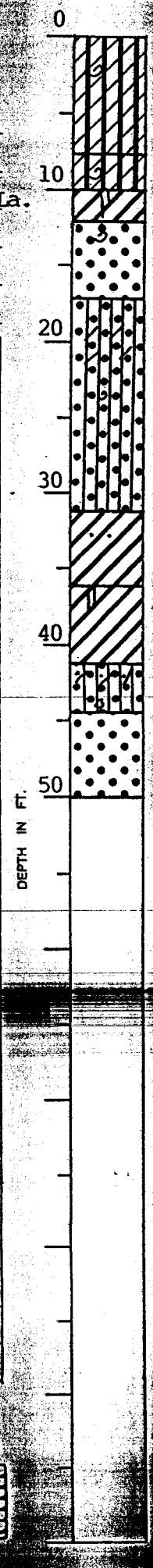
LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana
For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. 69 Soil Technician A. J. Mayeux Date 2 December 1985
Ground Elev. 5.3 NGVD Datum Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	159+60 VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
1	2.0	2.5	0.0		Medium compact tan & gray clayey silt w/shell fragments		
2	5.0	5.5		7.5	Ditto		
3	8.0	8.5	7.5	10.0	Medium compact brown & gray clayey silt w/shell fragments		
4	11.0	11.5	10.0	12.0	Medium stiff gray clay w/silt lenses		
5	12.0	13.5	12.0		Very loose gray sand w/shell fragments	1	3
6	15.0	16.5		17.0	Ditto	2	5
7	18.5	20.0	17.0		Very loose gray silty sand w/clay pockets & layers & shell fragments	0	1
8	24.0	24.5			Ditto		
9	29.0	29.5		31.0	Ditto		
10	34.0	34.5	31.0	36.0	Soft gray clay w/sand pockets		
11	39.0	39.5	36.0	41.0	Soft gray clay w/silt lenses		
12	44.0	44.5	41.0	44.5	Loose gray silty sand w/sandy clay layers & pockets & shell fragments		
13	44.5	46.0	44.5		Medium dense gray sand w/shell fragments	4	11
14	48.5	50.0		50.0	Ditto	5	19



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CLAY SILT SAND HUMUS

Predominant type shown heavy. Modifying type shown light.

Remarks:

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. _____ Soil Technician A. J. Mayeux Date 12 December 1985

Ground Elev. _____ Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
					BORING 73		
			0.0	10.0	Water		
1	11.5	12.0	10.0	12.0	Very soft black muck		
			12.0		Concrete		
					BORING 74		
			0.0	10.0	Water		
1	11.5	12.0	10.0	13.5	Extremely soft black muck		
2	15.5	16.0	13.5	18.0	Medium stiff gray & tan clay w/trace of silt		
3	19.0	19.5	18.0	20.0	Loose gray clayey silt		

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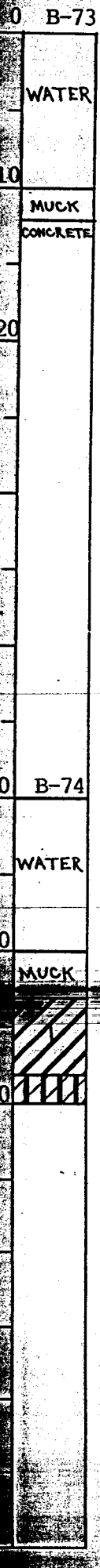
Remarks: _____

CLAY SILT SAND HUMUS

Predominant type shown heavy. Modifying type shown light.



LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

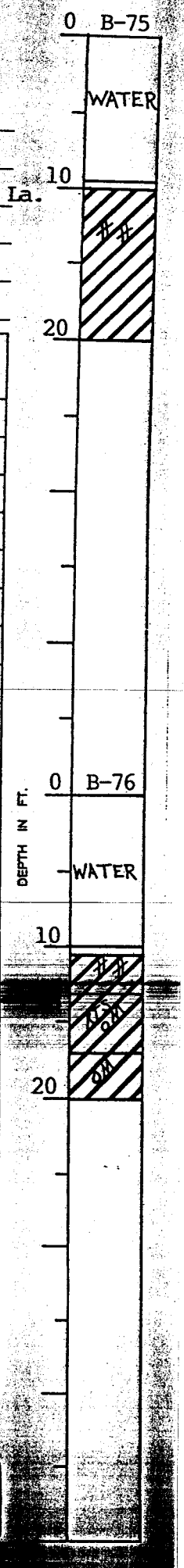
Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. _____ Soil Technician A. J. Mayeux Date 12 December 1985

Ground Elev. _____ Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
					BORING 75		
			0.0	9.5	Water		
	"		9.5	10.0	Extremely soft black muck		
1	12.5	13.0	10.0		Medium stiff gray & tan clay w/clayey		
					silt pockets		
2	15.5	16.0			Ditto		
3	19.0	19.5		20.0	Ditto		
					BORING 76		
			0.0	10.0	Water		
			10.0	10.5	Extremely soft black muck		
1	11.5	12.0	10.5	13.0	Medium stiff gray & tan clay w/clayey		
					silt pockets		
2	15.0	15.5	13.0	17.0	Medium stiff gray clay w/roots &		
					organic matter		
3	19.0	19.5	17.0	20.0	Soft to medium stiff gray clay with		
					organic matter		



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CLAY SILT SAND HUMUS

Predominant type shown heavy. Modifying type shown light.

Remarks:

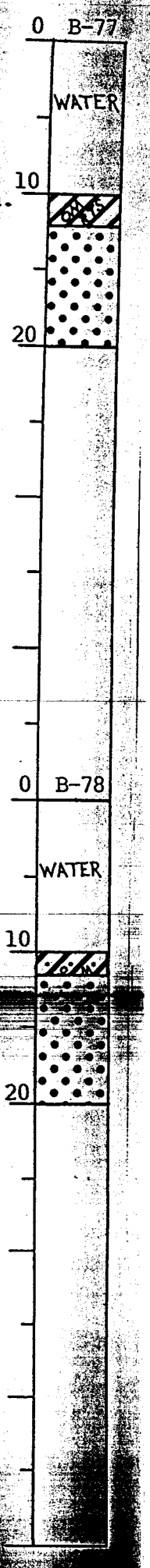
LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana
For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. _____ Soil Technician R. Mayeux Date 11 December 1985
Ground Elev. _____ Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
					BORING 77		
			0.0	10.0	Water		
1	10.5	11.5	10.0	12.0	Extremely soft gray clay w/organic		
					matter & roots		
2	14.0	14.5	12.0		Loose to medium dense gray sand		
3	17.0	17.5			Ditto		
4	19.5	20.0		20.0	Ditto		
					BORING 78		
			0.0	10.0	Water		
1	10.0	11.0	10.0	11.5	Extremely soft dark gray sandy clay		
					w/some organic matter		
2		14.5	11.5		Medium dense gray sand		
3	17.0	17.5			Ditto		
4	19.5	20.0		20.0	Ditto		



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CLAY SILT SAND HUMUS

Predominant type shown heavy. Modifying type shown light.

Remarks:

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana
For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. _____ Soil Technician R. Mayeaux Date 11 December 1985

Ground Elev. _____ Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
					BORING 79		
			0.0	10.0	Water		
1	10.5	11.0	10.0	11.5	Loose dark gray sand w/organic matter		
2	14.5	15.0	11.5		Medium dense gray sand		
3	17.0	17.5			Ditto		
4	19.5	20.0		20.0	Ditto		
					BORING 80		
			0.0	11.0	Water		
1	11.5	12.0	11.0	12.5	Loose gray sand w/trace of organic matter		
2	14.5	15.0	12.5		Loose to medium dense dark gray sand		
[illegible]	[illegible]	20.0	[illegible]	[illegible]	Ditto		
4	20.5	21.0		21.0	Ditto		

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Remarks:

CLAY SILT SAND HUMUS

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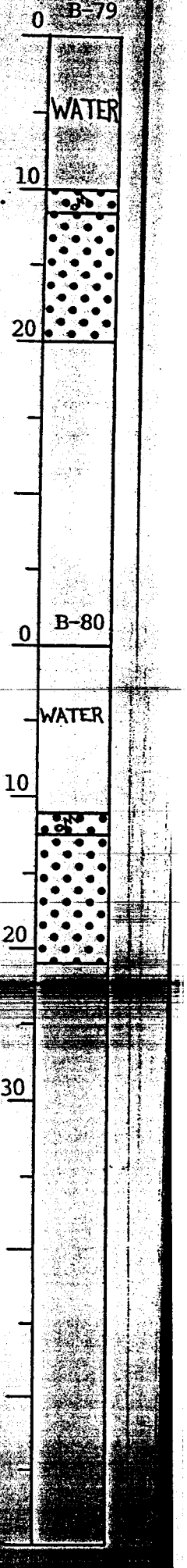

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. _____ Soil Technician R. Mayeux Date 10-11 December 1985

Ground Elev. _____ Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST
					BORING 81	
			0.0	11.0	Water	
1	11.0	12.0	11.0	13.5	Very soft gray organic clay w/silty sand layers	
2	14.0	14.5	13.5		Medium dense gray sand	
3	17.0	18.0			Ditto	
4	20.5	21.0		21.0	Ditto	
					BORING 82	
			0.0	10.0	Water	
1	10.0	11.0	10.0		Loose gray clayey sand w/organic matter	
2	12.0	12.5	12.0		Loose gray clayey sand	
3	15.0	15.5	13.5		Loose gray sand	
4	19.5	20.0		20.0	Ditto	

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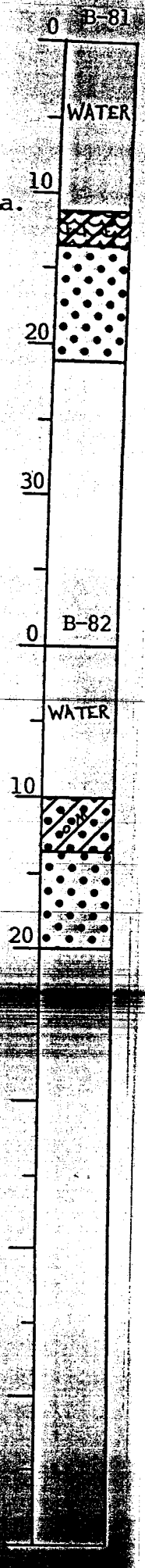
Remarks: _____

CLAY SILT SAND HUMUS

Predominant type shown heavy. Modifying type shown light.



LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

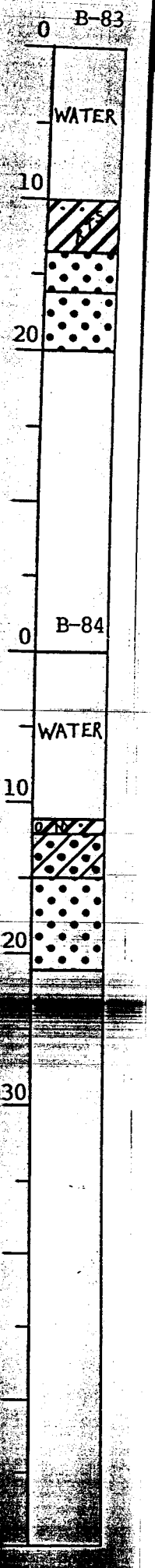
Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. _____ Soil Technician R. Mayeaux Date 10 December 1985

Ground Elev. _____ Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
					BORING 83		
			0.0	10.0	Water		
1	11.0	12.0	10.0	13.5	Very soft gray clay w/sand pockets & roots		
2	14.5	15.0	13.5	16.0	Loose gray sand		
3	17.0	17.5	16.0		Medium dense gray sand		
4	19.5	20.0		20.0	Ditto		
					BORING 84		
			0.0	11.0	Water		
1	11.0	12.0	11.0	12.0	Extremely soft dark gray clay w/organic [illegible]		
2	14.5	15.0	12.0	15.0	Loose dark gray clayey sand		
3	17.5	18.0	15.0		Very loose gray sand		
4	20.5	21.0		21.0	Ditto		



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CLAY SILT SAND HUMUS

Predominant type shown heavy. Modifying type shown light.

Remarks:

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. _____ Soil Technician R. Mayeaux Date 10 December 1985

Ground Elev. _____ Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
					BORING 85		
			0.0	11.0	Water		
1	11.0	12.0	11.0	12.5	Extremely soft gray clay w/much organic		
					matter & sand		
2	13.5	14.0	12.5	15.0	Loose gray clayey sand		
3	17.5	18.0	15.0		Loose gray sand		
4	20.5	21.0		21.0	Ditto		
					BORING 86		
			0.0	12.5	Water		
1	12.5	13.5	12.5	13.5	Very soft gray clay		
2	14.5	15.0	13.5	15.0	Loose gray clayey sand		
3	17.0	17.5	15.0		Medium dense gray sand		
4	19.5	20.0			Ditto		
5	22.0	22.5		22.5	Ditto		

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Remarks:

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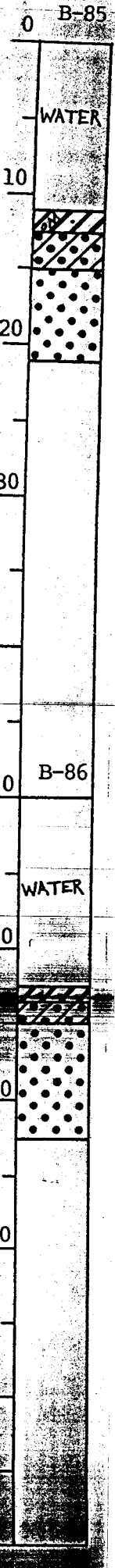


LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

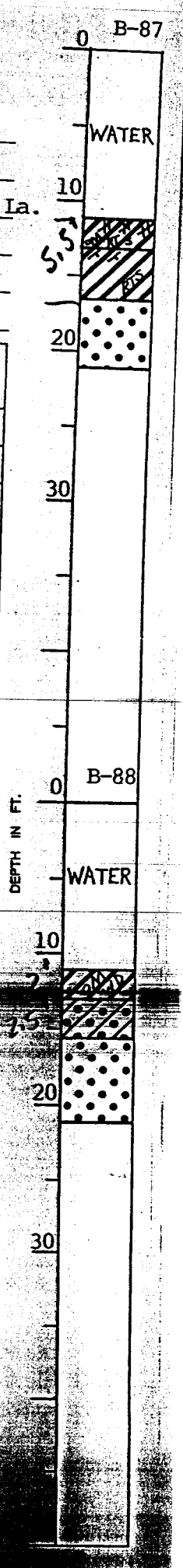
Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. _____ Soil Technician R. Mayeaux Date 9 December 1985

Ground Elev. _____ Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST
					BORING 87	
			0.0	11.0	Water	
1	12.0	12.5	11.0	13.0	Very soft gray clay w/clayey silt	
					layers, organic matter & roots	
2	14.0	15.0	13.0	16.5	Soft gray clay w/clayey sand pockets &	
					roots	
3	17.0	18.0	16.5		Loose gray sand	
4	20.0	21.0		21.0	Ditto	
					BORING 88	
			0.0	11.0	Water	
	12.0	12.5	11.0		Very soft gray clay w/organic matter	
					& wood	
2	14.5	15.0	13.0	15.5	Loose gray clayey sand	
3	17.0	18.0	15.5		Loose gray sand	
4	20.5	21.0		21.0	Ditto	



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CLAY SILT SAND HUMUS

Predominant type shown heavy. Modifying type shown light.

Remarks:

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

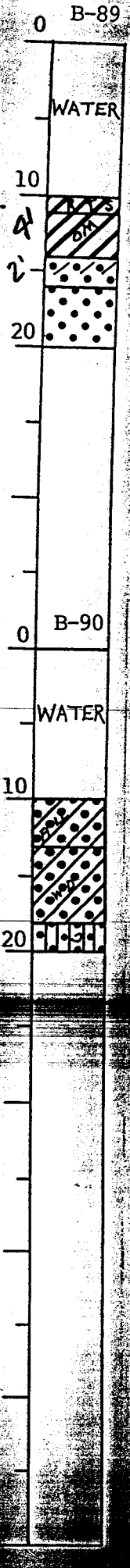
Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. _____ Soil Technician R. Mayeaux Date 6 & 9 December 1985

Ground Elev. _____ Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
					BORING 89		
			0.0	10.0	Water		
1	10.5	11.0	10.0	11.0	Very soft gray clay w/many roots		
2	12.0	12.5	11.0	14.0	Extremely soft dark gray clay w/some organic matter		
3	14.5	15.0	14.0	16.0	Loose gray sand w/some clay layers		
4	17.0	17.5	16.0		Loose gray sand		
5	19.5	20.0		20.0	Ditto		
					BORING 90		
			0.0	10.0	Water		
1	11.5	12.0	10.0	13.0	Loose gray clayey sand w/cinders & fill		
2	14.0	14.5	13.0		Loose gray clayey sand w/wood		
3	16.5	17.0		18.0	Loose gray clayey sand w/shell fragments		
4	19.5	20.0	18.0	20.0	Very loose gray silty sand w/shell fragments		



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SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

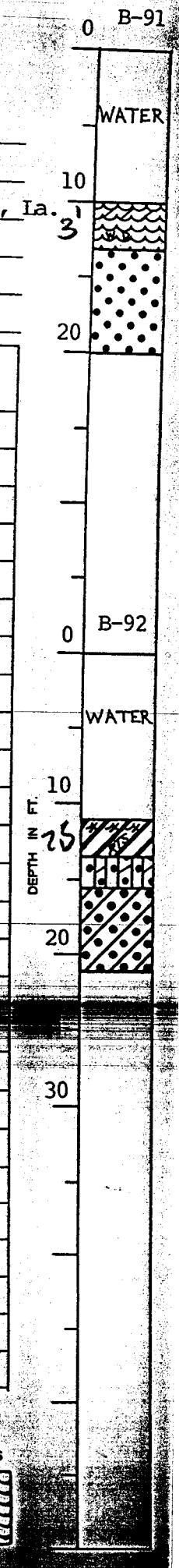
Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. _____ Soil Technician R. Mayeux Date 6 December 1985

Ground Elev. _____ Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
					BORING 91		
			0.0	10.0	Water		
1	11.0	11.5	10.0	13.0	Very soft brown humus w/clay layers &		
					wood		
2	14.0	14.5	13.0		Very loose gray sand		
3	16.5	17.0			Ditto		
4	19.5	20.0		20.0	Ditto		
					BORING 92		
			0.0	11.0	Water		
					layers & roots		
2	14.5	15.0	13.5	15.5	Loose gray silty sand w/clay layers		
3	17.0	17.5	15.5		Loose gray clayey sand		
4	20.0	21.0		21.0	Ditto		



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CLAY SILT SAND HUMUS

Remarks:

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LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. _____ Soil Technician R. Elkins Date 27 November 1985

Ground Elev. _____ Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
					BORING 93		
			0.0	12.0	Water		
1	13.5	14.0	12.0		Extremely soft gray clay w/trace of sand		
2	15.5	16.0		16.5	Ditto		
3	17.5	18.0	16.5	18.0	Soft gray silty clay w/sand pockets		
4	19.5	20.0	18.0		Loose gray clayey sand w/shell fragments		
5	21.5	22.0		22.0	Ditto		
			0.0	13.0	Water		
1	14.5	15.0	13.0		Very loose gray silty sand w/shells		
2	16.5	17.0			Very loose gray silty sand		
3	18.5	19.0			Ditto		
4	20.5	21.0			Ditto		
5	22.5	23.0		23.0	Ditto		

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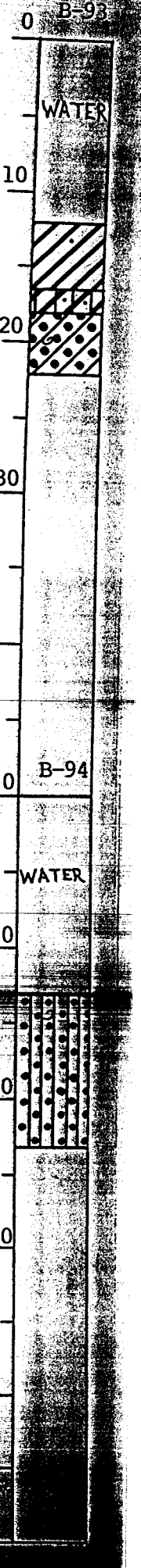
Remarks:

CLAY SILT SAND HUMUS

Predominant type shown heavy. Modifying type shown light



LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

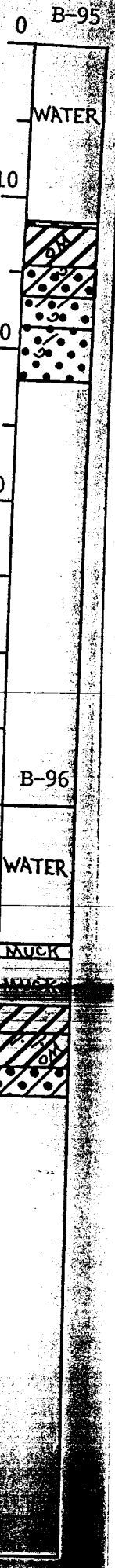
Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. _____ Soil Technician R. Elkins & A. J. Mayeux Date 13 Nov. & 17 Dec. 1985

Ground Elev. _____ Datum _____ Gr. Water Depth _____

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST
					BORING 95	
			0.0	11.5	Water	
1	13.5	14.0	11.5	11.8	Very loose gray fine sand	
2	15.5	16.0	11.8	14.5	Extremely soft gray clay w/organic matter	
3	17.5	18.0	14.5	16.5	Loose gray clayey sand w/shell fragments	
4	19.5	20.0	16.5	18.5	Very loose gray fine sand w/clay pockets & shells	
5	21.5	22.0	18.5		Loose gray fine sand w/trace of clay & shells	
				22.0	Loose gray fine sand	
					BORING 96	
			0.0	9.0	Water	
			9.0	10.0	Extremely soft black muck	
1	11.0	11.5	10.0	13.0	Very soft black muck	
2	13.0	13.5	13.0	15.0	Very soft gray clay	
3	16.0	16.5	15.0	17.0	Soft gray clay w/clayey sand pockets & trace of organic matter	
4	18.5	19.0	17.0	19.0	Loose gray clayey sand	



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CLAY SILT SAND HUMUS

Remarks:

LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. _____ Soil Technician A. J. Mayeux Date 17 December 1985

Ground Elev. _____ Datum _____ Gr. Water Depth See Text

Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
					BORING 97		
			0.0	8.0	Water		
			8.0	9.0	Extremely soft black muck		
1	11.0	11.5	9.0	12.0	Extremely soft gray sandy clay		
2	13.5	14.0	12.0		Medium dense gray clayey sand		
3	17.5	18.0		18.0	Ditto		
					BORING 98		
			0.0	6.0	Water		
1	8.0	8.5	6.0	12.5	Loose gray sand w/organic matter		
2	12.5	13.0	12.5	15.0	Extremely soft gray clay w/trace of organic matter		
3	15.5	16.0	15.0	16.0	Ditto		

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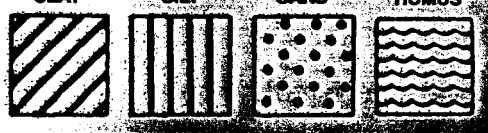
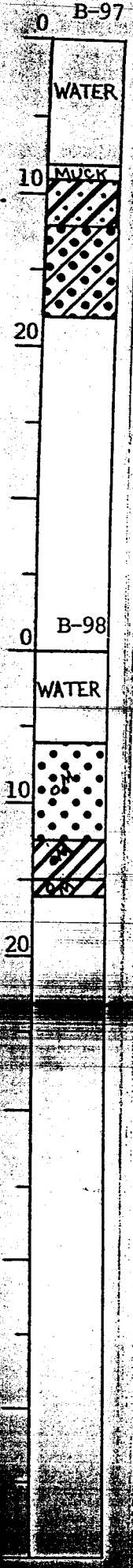




LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

Name of Project: London Avenue Canal, Levee and Floodwall Improvements - Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. _____ Soil Technician A. J. Mayeux Date 17 December 1985

Ground Elev. _____ Datum _____ Gr. Water Depth See Text

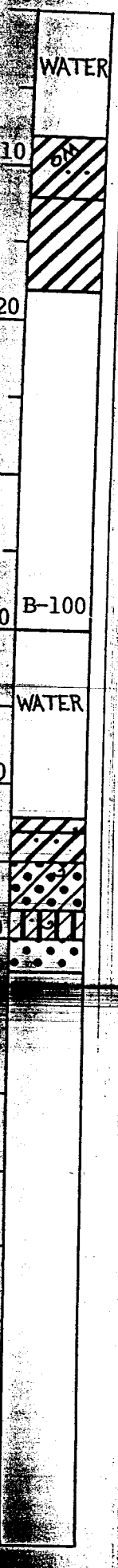
Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST
					BORING 99	
			0.0	8.0	Water	
1	9.0	9.5	8.0	12.0	Extremely soft gray clay w/organic matter & sand pockets	
2	13.0	13.5	12.0		Extremely soft gray clay	
3	17.0	17.5		18.0	Extremely soft gray clay	
					BORING 100	
			0.0	12.0	Water	
1	12.0	12.5	12.0	13.0	Extremely soft gray clay w/muck	
2	14.5	15.0	13.0	15.0	Very soft gray clay w/sand pockets	
3	17.0	17.5	15.0	18.0	Loose gray clayey sand w/shell fragments	
4	19.0	19.5	18.0	20.0	Medium compact gray clayey silt w/fine sand & shell fragments	
5	21.5	22.0	20.0	22.0	Loose to medium dense gray sand	

*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

WHILE THIS LOG OF BORING IS CONSIDERED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT ITS RESPECTIVE LOCATION ON THE DATE SHOWN, IT IS NOT WARRANTED THAT IT IS REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

Remarks: _____

Predominant type shown heavy. Modification type shown light



LOG OF BORING

EUSTIS ENGINEERING COMPANY
SOIL AND FOUNDATION CONSULTANTS
METAIRIE, LA.

B-101

Name of Project: London Avenue Canal, Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269, New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District, New Orleans, La.
Burk & Associates, Inc., New Orleans, Louisiana

Boring No. _____ Soil Technician R. Elkins Date 13 November 1985

Ground Elev. _____ Datum _____ Gr. Water Depth See Text

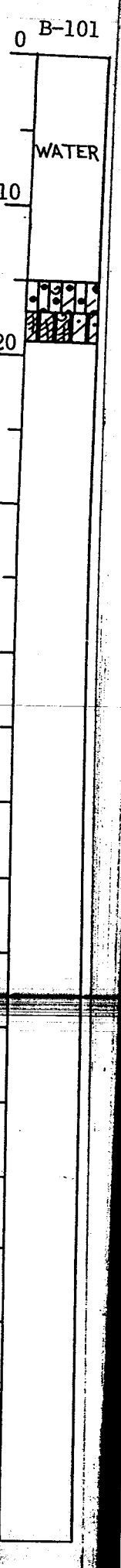
Sample No.	SAMPLE Depth — Feet From	To	DEPTH STRATUM Feet From	To	VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST
					BORING 101	
			0.0	15.0	Water	
			15.0	17.0	Loose gray silty sand w/shells & clay pockets	
1	18.5	19.0	17.0	19.0	Medium compact gray clayey silt w/silty clay layers, shells & sand pockets	

*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

WHILE THIS LOG OF BORING IS CONSIDERED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT ITS RESPECTIVE LOCATION ON THE DATE SHOWN, IT IS NOT WARRANTED THAT IT IS REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

Remarks: _____

Predominant type shown heavy, Modifying type shown light.



APPENDIX B

Geotechnical Investigation
London Avenue Canal
Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269
New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District
New Orleans, Louisiana

Burk & Associates, Inc., Engineers, Planners & Environmental Scientists
New Orleans, Louisiana

SUMMARY OF LABORATORY TEST RESULTS

BORING 1

12.5 NGVD

Sample No.	Depth In Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF	
2 +7.8	4.7	Soft gray & tan clay w/silt pockets	32.6	84.9	112.6	810*	.20
4 +1.8	10.7	Medium stiff gray clay w/sandy silt pockets	36.5	83.7	114.2	1265	.32
6 -5.7	18.2	Medium stiff gray clay w/sandy silt pockets & roots	35.5	84.5	114.6	1625	.41
11 -20.7	33.2	Medium stiff gray clay w/clayey silt lenses	67.5	59.7	100.0	1055	.26
12 -25.7	38.2	Ditto	63.7	61.9	101.3	1230	.31
13 -30.7	43.2	Medium stiff gray clay w/clayey sand lenses	61.0	62.0	99.8	1230	.31
~~15~~	~~53.2~~	~~Loose gray silty sand w/clay pockets, lenses & shell fragments~~	~~33.6~~	~~86.1~~	~~115.1~~	~~630*~~	
19 -50.7	63.2	Soft gray sandy clay w/sand pockets & shell fragments	31.4	90.5	118.9	720*	.18
20 -55.7	68.2	Medium stiff gray clay w/sandy silt pockets & shell fragments	49.0	72.3	107.7	1020	.26
21 -60.7	73.2	Stiff greenish-gray clay w/clayey silt pockets	29.9	91.8	119.3	2625	.66

*Unconsolidated Undrained Triaxial Compression Test - One Specimen; Confined at the approximate overburden pressure.

Geotechnical Investigation
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Burk & Associates, Inc., Engineers, Planners & Environmental Scientists
New Orleans, Louisiana

SUMMARY OF LABORATORY TEST RESULTS

BORING 2
EL 4.4

Sample No.	Depth In Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF		Atterberg Limits LL	Atterberg Limits PL	Atterberg Limits PI
1 +2.9	1.5	Stiff tan & gray clay w/sandy silt pockets	25.9	93.5	117.7	2345	.586			
3 -3.1	7.5	Medium stiff brownish-gray clay w/clayey silt pockets	31.0	89.5	117.2	1795	.45			
5 -9.1	13.5	Soft gray & tan silty clay w/clay layers	30.5	90.6	118.2	810	.20	41	18	23
7-18.6	23.0	Soft gray silty clay w/sandy silt lenses & layers	39.0	80.6	112.1	590	.15	42	20	22
9-29.1	33.5	Soft gray clay w/clayey silt lenses & layers	48.7	70.7	105.2	595	.15			
11-39.1	43.5	Medium stiff gray clay	63.4	61.2	100.1	1115	.28	77	22	55
13-49.1	53.5	Very soft gray sandy clay w/sand pockets, lenses & shell fragments	30.3	----	-----	----				
17-59.1	63.5	Medium stiff gray sandy clay w/sand pockets & shell fragments	28.1	94.6	121.2	1025	.26			
19-69.1	73.5	Very stiff gray & tan clay w/clayey silt pockets	28.5	90.6	116.5	4170*	1.04			
21-79.1	83.5	Stiff greenish-gray & tan clay w/silt lenses	40.7	80.1	112.7	2840	.71 TSF			
23-88.1	92.5	Stiff greenish-gray & tan clay w/sand layers	39.6	81.3	113.5	2810	.70			

Geotechnical Investigation
London Avenue Canal
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Burk & Associates, Inc., Engineers, Planners & Environmental Scientists
New Orleans, Louisiana

SUMMARY OF LABORATORY TEST RESULTS

BORING 3

5.3

Sample No.	Depth In Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF
2 +.8	4.5	Stiff tan & gray clay w/clayey silt pockets	29.0	90.1	116.2	2260 .57
~~4~~	~~10.5~~	~~Loose tan & gray clayey silt~~	~~33.9~~	~~89.2~~	~~119.4~~	~~860*~~
~~7~~	~~23.5~~	~~Loose gray clayey silt w/silty clay layers~~	~~31.9~~	~~89.1~~	~~117.5~~	960*
9 -28.2	33.5	Soft gray silty clay w/clayey silt layers	35.9	85.2	115.8	635 .16
10 -33.2	38.5	Ditto	35.8	86.2	117.0	850 .21
~~12~~	~~48.5~~	~~Medium compact gray clayey silt w/silty clay layers~~	~~28.8~~	~~92.0~~	~~118.5~~	~~1060*~~

Geotechnical Investigation
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New Orleans, Louisiana

SUMMARY OF LABORATORY TEST RESULTS

BORING 4

EL 4.2

Sample No.	Depth In Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF
2 -.3	4.5	Stiff tan & gray silty clay w/clayey silt layers & some gravel	23.5	96.8	119.5	2245 .56
3 -3.3	7.5	Medium stiff gray & tan clay w/clayey silt pockets	33.7	85.7	114.5	1525 .38
4 -6.3	10.5	Soft gray & tan silty clay w/clayey silt layers & lenses	33.7	86.9	116.2	625 .16
6 -12.8	17.0	Soft gray & tan silty clay w/roots	35.8	85.8	116.5	445* .11
8 -19.3	23.5	Very soft gray silty clay w/clayey silt lenses & clay pockets	35.9	84.6	115.0	450 .11
10	33.5	~~Very loose gray clayey silt w/silty clay lenses & pockets~~	33.7	88.7	118.6	~~415*~~
12	43.5	~~Loose gray clayey silt w/clay layers~~	38.0	82.5	113.9	~~870*~~
~~14~~	53.0	~~Medium compact gray clayey silt w/alternating clay lenses~~	29.7	89.3	115.8	~~1455*~~
19 -64.3	68.5	Stiff gray clay w/sandy silt layers	54.1	68.3	105.3	2935 .73
21 -74.3	78.5	Medium stiff greenish-gray & tan clay w/silt lenses	35.9	83.8	113.9	1915* .48

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Geotechnical Investigation
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New Orleans, Louisiana

SUMMARY OF LABORATORY TEST RESULTS

BORING 5
EL 4.7

Sample No.	Depth In Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF
1 +3.2	1.5	Medium stiff tan & gray silty clay	23.0	90.4	111.2	1870* .47
3 -2.8	7.5	Stiff tan & gray clay w/clayey silt pockets	29.9	91.8	119.2	3150 .79
5 -8.8	13.5	Soft tan & gray silty clay w/clayey silt pockets	37.5	82.3	113.1	690 .17
7 -18.8	23.5	Soft gray silty clay w/clayey silt lenses	37.2	85.7	117.6	750 .19
10 -33.8	38.5	Medium stiff dark gray clay w/silt lenses	73.4	55.3	95.9	1215 .30

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New Orleans, Louisiana

SUMMARY OF LABORATORY TEST RESULTS

BORING 6
EL 6.0

Sample No.	Depth In Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF
1 +4.5	1.5	Stiff tan & gray clay w/clayey silt pockets	25.2	91.7	114.8	2075 .52
3 -1.5	7.5	Medium stiff gray & tan clay w/clayey silt pockets	36.8	79.7	109.0	1080 .27
5 -7.5	13.5	Ditto	29.1	92.0	118.7	1905 .48
7 -17.5	23.5	Soft gray clay w/trace of organic matter	69.3	58.1	98.4	870 .22
9 -27.5	33.5	Soft gray clay w/sandy silt & silty sand lenses	55.2	66.8	103.6	775 .19
11 -37.5	43.5	Soft gray clay w/sand layers	85.8	49.6	92.2	865 .22

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New Orleans, Louisiana

SUMMARY OF LABORATORY TEST RESULTS

BORING 7
EL 6.2

Sample No.	Depth In Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF	Atterberg Limits LL	Atterberg Limits PL	Atterberg Limits PI
2 +1.7	4.5	Stiff tan & gray clay w/clayey silt pockets	29.2	91.5	118.2	3040 .76			
4 -4.3	10.5	Medium stiff gray & tan silty clay	35.7	84.2	114.3	1805 .45	80	25	55
6 -12.3	18.5	Ditto	33.6	87.0	116.2	1805 .45			
8 -22.3	28.5	Soft gray clay w/silt lenses	70.9	57.1	97.6	795 .20	96	28	68
10 -32.3	38.5	Soft gray clay w/silty sand lenses	69.2	57.2	96.7	810 .20			

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SUMMARY OF LABORATORY TEST RESULTS

BORING 8

EL 5.9

Sample No.	Depth In Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF
2 +1.4	4.5	Soft gray & brown clay w/clayey silt pockets	36.9	74.0	101.3	905* .226
4 -5.1	11.0	Medium stiff gray & tan clay w/roots	39.3	80.4	112.0	1310 .33
5 -7.6	13.5	Medium stiff gray & tan clay w/clayey silt pockets & roots	34.6	84.5	113.8	1260 .32
7 -17.6	23.5	Soft gray clay w/some organic matter	76.4	53.7	94.7	740 .19
9 -27.6	33.5	Soft gray clay	62.8	61.9	100.8	930 .23
10 -31.1	37.0	Soft gray clay w/silty sand layers	71.5	55.8	95.8	780 .20

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Geotechnical Investigation
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Burk & Associates, Inc., Engineers, Planners & Environmental Scientists
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SUMMARY OF LABORATORY TEST RESULTS

BORING 9
EL 6.0

Sample No.	Depth In Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF
1 +4.5	1.5	Medium stiff tan & gray clay w/clayey silt pockets & roots	38.7	78.3	108.6	1145 .29
2 +1.5	4.5	Medium stiff tan & gray clay w/clayey silt pockets & sandy silt lenses	42.6	73.1	104.3	1310 .33
4 -4.5	10.5	Medium stiff gray clay w/roots	52.7	68.9	105.2	1180 .30
6 -11	17.0	Soft gray clay w/roots	75.7	54.5	95.7	710 .18

BORING 10
EL 6.1

Sample No.	Depth In Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF
1 +4.6	1.5	Stiff tan & gray clay w/sand pockets & roots	43.4	93.6	134.2	2440 .61
3 -1.4	7.5	Soft gray & tan clay w/organic matter, brick fragments, concretions & roots	51.3	69.9	105.7	510 .13
5 -7.4	13.5	Soft gray & tan clay w/silt & very soft clay pockets & roots	53.7	68.5	105.3	995 .25

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SUMMARY OF LABORATORY TEST RESULTS

BORING 11
EL 6.4

Sample No.	Depth In Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF
2 -1.4	5.0	Stiff tan & gray clay w/clayey sand pockets & roots	24.5	94.9	118.2	3815 .95
4 -4.6	11.0	Medium stiff gray clay w/organic matter & roots	68.9	56.3	95.2	1330 .33
16 -47.6	54.0	Stiff gray clay w/sand pockets & shell fragments	58.1	64.6	102.1	2355 .59
17 -52.6	59.0	Medium stiff gray clay w/sand pockets & shell fragments	46.2	74.1	108.4	1415 .35
18 -57.6	64.0	Very stiff greenish-gray & tan clay	37.0	84.2	115.4	4855 1.21
19 -62.6	69.0	Stiff greenish-gray & tan clay	46.8	74.6	109.5	2865 .72

EL 6.3
BORING 12

1 +4.8	1.5	Soft gray & tan clay w/clayey sand layers & pockets	33.9	82.0	109.8	1750 .44
2 +1.8	4.5	Stiff gray & tan clay w/sand pockets	36.5	78.7	107.4	3240 .81
3 -1.2	7.5	Medium stiff gray & tan clay w/silty sand layers & pockets	29.5	----	-----	----
4 -5.2	11.5	Medium stiff gray clay w/roots, silty clay pockets & wood	75.1	----	-----	----

Geotechnical Investigation
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SUMMARY OF LABORATORY TEST RESULTS

EL 5.4
BORING 13

Sample No.	Depth In Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF
1 +3.9	1.5	Medium stiff gray & tan clay w/sand pockets & roots	44.7	72.7	105.2	1890 .47
2 +.9	4.5	Ditto	50.1	68.9	103.4	1490 .37
3 -2.1	7.5	Soft gray clay	49.9	70.1	105.1	910 .23
4 -4.6	10.5	Soft dark gray clay w/silt pockets & trace of organic matter	96.5	43.6	85.7	855 .21
5 -8.6	14.5	Soft gray clay w/roots & wood	106.8	----	-----	----
6 -10.6	16.0	Soft gray & tan clay w/roots & decayed wood	76.7	54.3	95.9	695 .17

Geotechnical Investigation
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SUMMARY OF LABORATORY TEST RESULTS

EL 4.5
BORING 14

Sample No.	Depth In Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF
1 +2.5	2.0	Medium stiff gray & tan clay w/silt pockets & roots	33.8	80.0	107.0	1525 .38
2 0	4.5	Medium stiff gray & tan clay w/sand pockets & roots	44.6	72.8	105.2	1850 .46
3 -3	7.5	Medium stiff dark gray clay w/clayey silt layers & roots	37.9	76.7	105.7	1680 .42
4 -7	11.5	Medium stiff gray clay w/large roots	64.0	----	-----	----
5 -9	13.5	Soft gray & tan clay w/roots	73.2	56.0	97.0	730 .18
6 -12.5	17.0	Soft gray clay w/roots & organic matter	82.9	51.0	93.4	690 .17

Geotechnical Investigation
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SUMMARY OF LABORATORY TEST RESULTS

EL 4.8
BORING 15

Sample No.	Depth In Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF
1 3.1	1.7	Medium stiff gray & tan clay w/silt pockets & roots	43.7	73.9	106.2	1715 .43
2 .1	4.7	Medium stiff gray & tan clay w/sand pockets & roots	54.0	65.2	100.5	1935 .48
3 -2.9	7.7	Soft dark gray clay w/silty sand layers & roots	53.5	60.1	92.3	590* .15
4 -5.9	10.7	Soft dark gray clay w/organic matter & roots	92.9	45.7	88.1	690 .17
5 -8.9	13.7	Soft gray clay w/roots	70.8	57.2	97.6	630 .16
16 -53.4	58.2	Medium stiff gray clay w/silty sand pockets & shell fragments	46.1	73.7	107.7	1755 .44
18 -63.4	68.2	Stiff gray clay w/trace of sand	47.8	73.3	108.3	2570 .64

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SUMMARY OF LABORATORY TEST RESULTS

EL 4.5
BORING 16

Sample No.	Depth In Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF	Atterberg Limits LL	PL	PI
2	0 4.5	Very stiff gray clay w/silt pockets & roots	42.0	74.4	105.6	4570 1.14	134	29	105
3	-3 7.5	Very stiff gray & tan clay w/sand pockets	40.6	75.4	106.0	4550 1.14			
4	-6.5 11.0	Soft dark gray clay w/organic matter	89.1	45.7	86.4	845 .21			
		EL 5.4 BORING 17							
1	+3.4 2.0	Stiff brownish-gray clay w/clayey silt pockets, roots & brick fragments	32.7	80.5	106.8	2835* .71			
2	+1.9 4.5	Medium stiff gray clay w/silt pockets & organic matter	44.0	68.4	98.5	1885 .47			
3	-2.6 8.0	Medium stiff brownish-gray clay w/organic matter	59.4	52.3	83.4	1580* .40			
4	-5.6 11.0	Soft black flocculated clay w/organic matter	50.7	64.1	96.6	830* .21	108	28	80
5	-8.1 13.5	Soft gray clay w/roots	81.7	51.5	93.5	780 .20			

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Geotechnical Investigation
London Avenue Canal
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New Orleans, Louisiana

SUMMARY OF LABORATORY TEST RESULTS
EL 4.7
BORING 18

Sample No.	Depth In Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF	Atterberg Limits LL	PL	PI
2 -.3	5.0	Stiff gray clay w/sand pockets & shells	26.6	90.2	114.1	3240 .81			
3 -3.3	8.0	Medium stiff brown & gray clay w/organic matter & roots	74.1	42.9	74.8	1710* .43			
4 -5.8	10.5	Soft brown & gray clay w/organic matter & many roots	76.4	----	-----	----			
5 -8.8	13.5	Soft gray clay w/roots	58.4	64.1	101.5	755 .19			
6 -11.8	16.5	Soft gray clay w/sand pockets & organic matter	47.0	72.6	106.8	900 .23	72	23	49

*Unconsolidated Undrained Triaxial Compression Test - One Specimen; Confined at the approximate overburden pressure.

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London Avenue Canal
Levee and Floodwall Improvements
Orleans Levee Board Project No. 2049-0269
New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District
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Burk & Associates, Inc., Engineers, Planners & Environmental Scientists
New Orleans, Louisiana

SUMMARY OF LABORATORY TEST RESULTS

EL 6.0
BORING 19

Sample No.	Depth In Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF
1 +4.0	2.0	Stiff tan & gray clay w/sand pockets & roots	32.7	84.4	112.0	2050 .51
2 +1.0	5.0	Medium stiff gray & tan clay w/sand lenses, pockets & roots	32.3	86.7	114.8	1380 .35
3 -2.0	8.0	Very soft gray clay w/organic clay layers, roots & wood	104.7	42.3	86.5	445 .11
4 -8	14.0	Soft gray clay w/roots	68.3	58.6	98.5	945 .24
16 -58	64.0	Medium stiff gray clay w/trace of sand	51.8	69.3	105.1	1305 .33
17 -63	69.0	Stiff gray clay w/sand pockets	41.7	78.0	110.5	2055 .51
18 -68	74.0	Stiff gray clay w/trace of organic matter & shell fragments	60.1	63.0	100.9	3225 .81
19 -73	79.0	Medium stiff greenish-gray silty clay w/fine sand	21.2	103.5	125.4	1015 .25

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SUMMARY OF LABORATORY TEST RESULTS

EL 5.5
BORING 20

Sample No.	Depth In Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF
1 +3.5	2.0	Medium stiff brown & gray silty clay	28.9	84.3	108.7	1470 ,37
2 +0.5	5.0	Medium stiff gray & tan clay w/silt pockets & decayed wood	48.5	68.4	101.6	1365 .34
3 -2.5	8.0	Medium stiff dark gray clay w/organic matter, wood & roots	66.0	----	-----	----
4 -7.0	12.5	Soft dark gray clay w/roots w/roots & organic matter	73.8	55.1	95.8	545 .14
5 -10.0	15.5	Soft gray silty clay w/clayey silt layers & roots	39.2	79.9	111.3	390 .10
6 -13.5	19.0	Very soft gray clay w/clayey silt layers, silty fine sand pockets & roots	38.9	83.2	115.5	----
~~7~~	~~24.0~~	~~Very loose gray clayey silt w/silty sand lenses~~	~~33.6~~	~~85.2~~	~~113.8~~	~~205*~~

*Unconsolidated Undrained Triaxial Compression Test - One Specimen; Confined at the approximate overburden pressure.

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SUMMARY OF LABORATORY TEST RESULTS

EL 6.0
BORING 21

Sample No.	Depth In Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF
1 + 4	2.0	Stiff brown & gray clay w/clayey silt pockets & some sand	28.1	86.3	110.5	2045 ,51
2 +1	5.0	Medium stiff brownish-gray clay w/sand pockets	40.7	76.5	107.6	1750 ,44
3 -1.5	7.5	Soft brown & gray clay w/organic matter, roots & wood	178.6	26.7	74.2	520 ,13
4 -4.5	10.5	Soft brown & gray clay w/humus & organic clay layers	124.0	33.6	75.3	530* ,13
5 -7.5	13.5	Soft gray clay w/clayey silt pockets & roots	37.9	81.4	112.3	840 ,21
6 -12.5	18.5	Soft gray clay w/roots & few concretions	59.8	64.1	102.5	850 ,21

*Unconsolidated Undrained Triaxial Compression Test - One Specimen; Confined at the approximate overburden pressure.

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SUMMARY OF LABORATORY TEST RESULTS

EL 5.2
BORING 22

Sample No.	Depth In Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF
1 +3.7	1.5	Stiff brownish-gray clay w/clayey silt & clayey sand pockets & roots	35.7	81.5	110.6	2760 .69
~~2~~	~~5.0~~	~~Medium dense tan & gray silty sand w/clay layers & roots~~	~~31.2~~	~~78.7~~	~~103.2~~	~~1445*~~
3 +2.3	7.5	Stiff gray clay w/organic matter, roots & decayed wood	77.9	48.6	86.4	2550 .64
4 -5.3	10.5	Wood w/some dark gray clay, organic matter & roots	213.3	----	-----	----
5 -8.3	13.5	Soft gray clay w/roots & organic matter	52.6	69.1	105.5	710 .18
~~6~~	~~18.5~~	~~Very loose gray silty sand w/clay lenses & roots~~	~~26.8~~	~~98.2~~	~~124.5~~	~~195*~~

*Unconsolidated Undrained Triaxial Compression Test - One Specimen; Confined at the approximate overburden pressure.

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SUMMARY OF LABORATORY TEST RESULTS

BORING 23

EL 5.0

Sample No.	Depth In Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF	
1	+3.5 1.5	Stiff brownish-gray clay w/clayey sand & clayey silt pockets & roots	30.3	88.0	114.6	2995	.75
2	0 5.0	Very soft dark brown & gray clay w/silty sand pockets & roots	82.1	48.3	88.0	485	.12
3	-2.5 7.5	Soft dark gray clay w/sand pockets, organic matter & decayed wood	60.4	59.0	94.6	995	.25
4	-5.5 10.5	Soft dark brown & gray clay w/organic matter & decayed wood	106.6	38.6	79.8	785	.20
5	-8.5 13.5	Soft gray silty clay w/roots & sand pockets	35.6	84.4	114.4	855	.21

BORING 24

EL 5.0

1	+3.0 2.0	Stiff gray & tan silty clay w/sand layers, pockets & roots	18.1	104.1	122.9	2910	.73
2	0 5.0	Soft gray & tan clay w/sandy silt layers, pockets, roots & organic matter	44.0	70.4	101.3	970	.24
4	-5.5 10.5	Medium stiff brown organic clay w/wood & roots	154.3	32.0	81.3	1450	.36
5	-8.5 13.5	Soft gray silty clay w/roots	35.0	83.5	112.8	845	.21

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SUMMARY OF LABORATORY TEST RESULTS

EL 4.7
BORING 25

Sample No.	Depth In Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF
~~1~~	~~-1.5~~	~~Loose tan & gray clayey silt w/roots~~	~~21.0~~	~~94.2~~	~~114.0~~	~~785*~~
2	-.3 5.0	Medium stiff brown & gray silty clay w/humus, roots & trace of sand	66.8	46.9	78.2	1170* .29
3	-2.8 7.5	Soft dark brown & gray organic clay w/roots	271.1	18.9	70.1	575 .14
4	-6.3 11.0	Soft dark gray organic clay w/silt pockets, wood & roots	95.1	----	-----	----
5	-8.8 13.5	Soft gray clay w/organic matter & roots	66.5	59.2	98.5	595 .15

EL 4.8
BORING 26

1	+2.8 2.0	Medium stiff brown & gray silty clay w/trace of sand & roots	30.8	79.0	103.4	1030* .26
2	-.2 5.0	Medium stiff gray & tan silty clay w/clayey silt layers, lenses, gravel & roots	30.4	86.5	112.8	1065* .27
3	-2.7 7.5	Medium stiff dark gray clay w/clayey silt layers & roots	75.8	51.6	90.7	1320 .33
4	-5.7 10.5	Soft dark gray clay w/roots, organic clay layers & wood	66.3	54.3	90.3	730 .18
5	-9.2 14.0	Loose dark brown humus w/roots & wood	317.7	----	-----	----

*Unconsolidated Undrained Triaxial Compression Test - One Specimen; Confined at the approximate overburden pressure.

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SUMMARY OF LABORATORY TEST RESULTS

+3.0
EL -0.5 WRONG
BORING 27

(Sheet 1 of 2)

Sample No.	Depth In Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF		Atterberg Limits LL	PL	PI
1 ~~-2.5~~ +1.5	2.0	Medium stiff tan & gray clay w/sand pockets & roots	36.9	82.1	112.4	1960	.49			
2 ~~-7.5~~ -4.5	5.0	Medium dense tan & gray silty sand w/clayey sand layers & pockets	18.5	----	-----	----				
3 ~~-8.5~~ -5.5	8.0	Stiff gray & brown clay w/sand pockets	28.6	87.0	111.9	3330	.83			
4 ~~-11.0~~ -13.5	~~11.0~~	~~Loose gray silty sand w/clay pockets, organic matter & roots~~	~~35.0~~	~~80.6~~	~~108.8~~	~~500*~~				
6 ~~-16.5~~	16.0	Medium stiff gray clay	70.0	57.8	98.2	1035	.26			
7 ~~-20~~ -16.5	19.5	Soft dark gray organic clay w/humus layers & roots	193.4	24.5	71.8	940	.24	243	69	174
8 ~~-24~~ -20.5	23.5	Very soft dark gray organic clay w/humus layers	149.2	31.3	78.0	460	.12			
17 ~~-59~~ -55.5	58.5	Medium stiff gray clay w/clayey sand pockets & shell fragments	47.7	72.1	106.5	1825	.46	68	20	48

*Unconsolidated Undrained Triaxial Compression Test - One Specimen; Confined at the approximate overburden pressure.

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SUMMARY OF LABORATORY TEST RESULTS

BORING 27
(Cont'd)

Sample No.	Depth In Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF	Atterberg Limits LL	PL	PI
18 -64 -65.5	63.5	Stiff greenish-gray clay w/trace of sand	31.5	89.1	117.2	2625 ,66			
19 -69 -90.5	68.5	Stiff greenish-gray & tan clay w/trace of silt	32.1	89.3	118.0	3310 ,83			
25 -94	93.5	Stiff gray clay w/silt pockets	47.9	71.3	105.3	2250 ,56	73	21	52
26 -99 -95.5	98.5	Ditto	37.1	83.6	114.6	2205 ,55			

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SUMMARY OF LABORATORY TEST RESULTS

WRONG
EL +0.3 +3.0

BORING 28

Sample No.	Depth In Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF
1	~~-1.2~~ +1.5 1.5	Stiff tan & gray clay w/sand pockets, roots & shell fragments (fill)	36.3	82.0	111.8	2020 .51
2	~~-4.2~~ -1.5 4.5	Very stiff brownish-gray clay w/sand pockets & decayed shells	29.0	90.8	117.2	4935 1.23
~~3~~	~~7.5~~ -7.5	~~Medium compact grayish-brown clayey silt w/fine sand~~	~~32.6~~	~~75.3~~	~~99.9~~	~~1355*~~
4	~~-10.5~~ 10.5	Medium stiff gray & tan clay w/clayey sand pockets	30.8	88.7	116.1	1425 .36
5	~~-13.5~~ -10.5 13.5	Soft dark brown & gray organic clay w/roots & wood	131.2	34.0	78.5	670 .17
7	~~-20.5~~ -18.0 21.0	Soft dark brownish-gray organic clay w/roots	155.1	30.1	76.9	780 .20

*Unconsolidated Undrained Triaxial Compression Test - One Specimen; Confined at the approximate overburden pressure.

Change Boring ~~Location~~
Elevations & Tests
Bor. 27 & 28.

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SUMMARY OF LABORATORY TEST RESULTS

EL 2.0 Change? OK?

BORING 29

Sample No.	Depth In Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF	
1 -2.5	4.5	Very stiff brownish-gray clay w/clayey sand & clayey silt pockets & gravel	31.1	----	-----	----	
2 -6	8.0	Stiff tan & gray clay w/clayey silt pockets	28.9	86.6	111.6	2280	.57
4 -13	15.0	Loose brown humus w/roots	242.8	20.5	70.4	560	.14
16 -56.5	58.5	Medium stiff gray clay w/sand pockets	49.6	71.1	106.4	1325	.33
17 -61.5	63.5	Stiff gray silty clay	25.2	97.6	122.1	3075	.77

EL 3.0

BORING 30

1 +1.5	1.5	Stiff brownish-gray clay w/sand pockets	30.3	93.4	121.8	2235*	.56
3 -4.5	7.5	Soft brownish-gray clay w/alternating silty sand lenses & layers	36.7	77.8	106.4	875*	.22
~~5~~	~~14.0~~	~~Loose gray silty sand w/some clay~~	~~29.7~~	~~89.7~~	~~116.4~~	~~760*~~	
~~6~~	~~18.5~~	~~Very loose gray clayey silt w/silty sand pockets & roots~~	40.7	80.0	112.6	~~180*~~	
7 -20.5	23.5	Soft gray clay w/clayey silt pockets & roots	47.8	71.5	105.7	875	.22

*Unconsolidated Undrained Triaxial Compression Test - One Specimen; Confined at the approximate overburden pressure.

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SUMMARY OF LABORATORY TEST RESULTS

EL 4.7
BORING 32

Sample No.	Depth In Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF	
5 ~~-6.3~~	11.0	Soft gray clay w/silty fine sand layers & few shell fragments	66.4	----	-----	----	
~~6~~	~~14.5~~	~~Medium dense gray silty sand w/few clay lenses & shell fragments~~	~~28.6~~	~~93.9~~	~~120.7~~	~~1130*~~	
8 -18.8	23.5	Very soft gray clay w/clayey silt & silty sand lenses & layers	50.2	70.5	106.0	345*	.09

EL 5.7
BORING 33

4 -2.8	8.5	Soft gray & tan clay w/clayey sand pockets	57.0	65.2	102.3	515	.13
12 -27.8	33.5	Medium stiff gray clay w/clayey silt pockets	52.8	68.9	105.3	1150	.29

*Unconsolidated Undrained Triaxial Compression Test - One Specimen; Confined at the approximate overburden pressure.

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SUMMARY OF LABORATORY TEST RESULTS

EL 4.0
BORING 34

Sample No.	Depth In Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF	Atterberg Limits LL	Atterberg Limits PL	Atterberg Limits PI
4 -4.5	8.5	Soft tan & gray clay w/silty sand pockets	34.3	85.4	114.7	755* .19	42	15	27
5 -7.5	11.5	Soft gray clay w/silt pockets	49.3	71.7	107.0	550 .14			
6 -10.5	14.5	Soft gray clay w/clayey sand layers	55.1	67.1	104.1	520 .13	101	29	72
~~7~~	~~18.5~~	~~Medium dense gray silty fine sand w/clay lenses & shell fragments~~	~~31.6~~	~~91.3~~	~~120.1~~	~~1795*~~			
9	28.5	Loose gray silty sand w/clay lenses, pockets & shells	28.6	96.2	123.8	355*			
10 -29.5	33.5	Soft gray clay w/many clayey sand pockets	38.9	80.2	111.4	765* .19			
11 -34.5	38.5	Soft gray clay w/silty sand pockets	62.1	61.5	99.6	915* .23	99	25	74

*Unconsolidated Undrained Triaxial Compression Test - One Specimen; Confined at the approximate overburden pressure.

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SUMMARY OF LABORATORY TEST RESULTS

EL 5.1
BORING 35

Sample No.	Depth In Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF
1 +3.1	2.0	Very stiff tan & gray clay w/clayey silt layers (fill)	21.8	----	-----	----
4 -3.4	8.5	Medium stiff gray & tan silty clay w/silty sand layers & decayed shells	24.8	93.8	117.0	1355* .34
5-6.9	12.0	Soft gray & tan clay w/sand pockets & shell fragments	33.1	----	-----	----
~~11~~	~~28.5~~	~~Very loose gray clayey silt w/silty sand layers & shell fragments~~	~~40.2~~	~~81.4~~	~~114.2~~	~~225*~~
12-28.4	33.5	Soft gray clay w/clayey sand pockets	54.0	68.0	104.7	900 .23
13-33.4	38.5	Soft gray clay w/clayey silt lenses & silty sand pockets	58.9	64.4	102.4	895 .22

*Unconsolidated Undrained Triaxial Compression Test - One Specimen; Confined at the approximate overburden pressure.

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SUMMARY OF LABORATORY TEST RESULTS

EL 6.8

BORING 36

Sample No.	Depth In Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF	Atterberg Limits LL	PL	PI
1 +4.8	2.0	Loose gray & tan clayey silt w/roots & concretions	20.5	95.4	115.0	Ø=13° c=185* .09			
3 -1.2	8.0	Medium stiff gray silty clay w/organic matter	29.8	87.8	113.9	1170 .29			
5 -7.2	14.0	Stiff tan & gray clay w/silt pockets	27.9	94.8	121.2	2705 .68	56	21	35
7 -17.2	24.0	Soft gray clay w/silt pockets	56.0	65.5	102.2	610 .15			
13 -37.2	44.0	Medium stiff gray clay	76.0	54.4	95.7	1035** .26	109	27	82
16 -50.7	57.5	Very loose gray silty sand w/clay lenses & shell fragments	25.9	96.8	121.9	Ø= 6° c= 60* .03	24	19	5
~~19~~	~~64.0~~	~~Loose gray clayey sand w/clay pockets & shell fragments~~	~~29.4~~	~~91.3~~	~~118.1~~	~~535*~~			
20 -62.2	69.0	Medium stiff gray & tan clay w/silt lenses & pockets	53.9	68.1	104.8	1860 .47			
22 -72.2	79.0	Stiff greenish-gray & tan clay	29.4	92.6	119.8	3525 .88			
25 -87.2	94.0	Very stiff greenish-gray & tan clay	34.5	86.1	115.8	4125 1.03			

*Unconsolidated Undrained Triaxial Compression Test - Multiple Stage;
Ø = Angle of internal friction; c = Cohesion in psf.

**Unconsolidated Undrained Triaxial Compression Test - One Specimen;
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SUMMARY OF LABORATORY TEST RESULTS

EL 4.3
BORING 37

Sample No.	Depth In Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF
2 +1.8	2.5	Stiff gray & tan clay w/silt pockets	27.7	91.4	116.8	2520 .63
3 -1.2	5.5	Medium stiff tan & gray clay w/silt pockets	28.3	93.4	119.8	1690 .42
5 -7.2	11.5	Soft gray & tan clay w/vertical sand lenses	46.3	73.2	107.1	540* .135
7 -15.2	19.5	Soft gray clay w/clayey silt layers	43.4	75.5	108.2	730 .18
11 -30.2	34.5	Soft gray clay	67.5	59.2	99.2	670 .17
14 -45.2	49.5	Soft gray sandy clay w/large silty sand pockets & shells	32.6	86.9	115.3	545 .14
19 -60.2	64.5	Medium stiff gray & tan clay w/silt lenses	55.1	67.5	104.7	1585 .40
21 -70.2	74.5	Stiff gray & tan clay	30.6	91.4	119.4	3095 .77

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SUMMARY OF LABORATORY TEST RESULTS

EL 5.0

BORING 38

Sample No.	Depth In Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF
2 -.5	4.5	Soft tan & gray silty clay w/concretions	29.0	88.4	114.0	940 ,235
4 -5.5	10.5	Medium stiff gray & tan silty clay w/roots	32.0	88.6	116.9	1765 .44
~~7~~	~~23.0~~	~~Loose gray clayey silt~~	~~32.3~~	~~88.4~~	~~117.0~~	~~645*~~
9-28	33.0	Soft gray & tan clay w/sandy silt layers	32.8	87.3	115.9	595* ,15
~~11~~	~~43.0~~	~~Medium compact gray clayey silt~~	~~32.6~~	~~88.8~~	~~117.8~~	~~1285*~~

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SUMMARY OF LABORATORY TEST RESULTS

EL 45
BORING 39

Sample No.	Depth in Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF	Atterberg Limits LL	Atterberg Limits PL	Atterberg Limits PI
2 ~~-2.0~~	2.5	Medium stiff gray & tan clay w/clayey silt pockets, few roots & fill	36.9	81.3	111.4	1820 ,455			
3 -1	5.5	Medium stiff brown & gray clay w/clayey silt pockets & fill	38.5	78.1	108.2	1650* ,41	79	25	54
4 -4	8.5	Medium stiff tan & gray silty clay w/roots	27.5	95.0	121.2	1650 ,41			
5 -7	11.5	Very soft gray silty clay w/clay layers	41.4	79.3	112.1	420 ,105			
~~6~~	~~14.5~~	~~Medium compact gray clayey silt~~	~~29.7~~	~~92.0~~	~~119.3~~	~~1105*~~	~~28~~	~~24~~	~~4~~
~~7~~	~~19.5~~	~~Loose gray sandy silt w/clay layers~~	~~32.0~~	~~92.1~~	~~121.6~~	----			
8 -20	24.5	Soft gray silty clay w/clay layers	30.8	89.2	116.7	975 ,24	35	20	15
20 -69	73.5	Medium stiff greenish-gray fissured clay w/clayey silt pockets	21.8	97.2	118.4	1935* ,48			
22 -80	84.5	Medium stiff greenish-gray fissured clay w/clayey silt layers	27.8	93.4	119.3	1035* ,26			
24 -90	94.5	Stiff gray & tan fissured clay	36.4	84.4	115.1	2960 ,74			

*Unconsolidated Undrained Triaxial Compression Test - One Specimen; Confined at the approximate overburden pressure.

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New Orleans, Louisiana

For: The Board of Levee Commissioners of the Orleans Levee District
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Burk & Associates, Inc., Engineers, Planners & Environmental Scientists
New Orleans, Louisiana

SUMMARY OF LABORATORY TEST RESULTS

EL 5.6
BORING 40

Sample No.	Depth in Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF	
2 +1.6	4.0	Stiff tan & gray clay w/clayey silt pockets (fill)	23.9	97.7	121.0	3960	.99
3 -.9	6.5	Medium stiff tan & gray clay w/clayey silt pockets & roots (fill)	26.5	91.0	115.1	1550*	.39
4 -3.4	9.0	Stiff gray & tan clay w/clayey silt pockets	29.6	91.7	118.8	2965	.74
5 -5.9	11.5	Medium stiff gray & tan clay w/clayey silt pockets	34.2	86.0	115.5	1340	.335
6 -8.4	14.0	Ditto	36.7	82.6	112.9	1295	.32
7 -10.9	16.5	Ditto	35.0	84.8	114.5	1610	.40
8 -13.4	19.0	Ditto	34.3	86.1	115.6	1530	.38
9 -15.9	21.5	Medium stiff gray silty clay w/clayey silt layers & lenses	35.4	83.6	113.2	1045	.26
10 -18.4	24.0	Soft gray silty clay	35.2	84.7	114.6	670	.17
11 ~~28.5~~		~~Loose gray sandy silt w/clay lenses~~	~~27.7~~	~~92.0~~	~~117.5~~	980*	
13 -28.4	34.0	Medium stiff gray clay w/clayey silt lenses	42.3	77.0	109.6	1175	.29
14 -30.9	36.5	Medium stiff gray clay	61.5	62.5	100.9	1460	.365
16 -35.9	41.5	Soft gray clay w/silty sand layers	47.3	70.9	104.4	810*	.20

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SUMMARY OF LABORATORY TEST RESULTS

EL 6.4
BORING 41

Sample No.	Depth In Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF
2 -1.9	4.5	Medium stiff tan & gray clay w/silty clay layers & roots	28.5	91.7	117.8	1865 ,47
4 -4.1	10.5	Medium stiff tan & gray clay	34.5	84.8	114.1	1870 ,47
6 -11.6	18.0	Medium stiff gray & tan clay w/silty clay layers	36.3	84.0	114.5	1065 ,27
7 -16.4	23.0	Medium stiff gray clay w/organic matter	57.3	65.4	102.9	1385 .35
9 -26.4	33.0	Very soft gray clay w/thick sandy silt layers & lenses	36.9	80.2	109.9	465* ,12
11 -36.4	43.0	Soft gray clay w/sand lenses, pockets & shell fragments	52.1	66.1	100.5	700 ,175

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SUMMARY OF LABORATORY TEST RESULTS

EL 6.1
BORING 42

Sample No.	Depth In Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF	
2 +3.6	2.5	Stiff gray & tan clay w/roots & trace of gravel	26.7	92.3	116.9	3485	.87
3 +1.6	5.5	Stiff tan & gray clay w/silt pockets	30.8	89.9	117.6	2960	.74
4 -2.4	8.5	Ditto	33.1	87.7	116.8	2025	.51
5 -5.4	11.5	Medium stiff gray & tan clay w/silt pockets	34.1	86.9	116.5	1705	.43
6 -8.4	14.5	Stiff gray & tan clay	35.8	83.8	113.8	2145	.54
7 -13.4	19.5	Stiff gray & tan clay w/silt pockets	38.2	82.4	113.8	2030	.51
8 -18.4	24.5	Medium stiff gray clay w/trace of organic matter	66.3	59.5	98.9	1275	.32
9 -22.9	29.0	Soft gray clay	71.4	57.3	98.2	905	.23
10 -28.4	34.5	Ditto	73.3	56.3	97.6	810	.20
11 -33.4	39.5	Soft gray clay w/silty sand lenses & layers	66.6	59.0	98.4	580*	.145

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SUMMARY OF LABORATORY TEST RESULTS

EL 5.3
BORING 43

Sample No.	Depth In Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF
2 +2.8	2.5	Stiff brown & gray clay w/silt pockets	30.9	85.2	111.6	3985 1.00
3 -.2	5.5	Medium stiff gray & tan silty clay	31.9	89.7	118.4	1680 .42
4 -3.2	8.5	Medium stiff gray & tan clay w/silt pockets	34.4	86.6	116.4	1010 .25
5 -6.2	11.5	Ditto	33.8	86.5	115.7	1510 .38
6 -8.2	14.5	Medium stiff gray & tan clay	42.6	78.1	111.3	1625 .41
7 -14.2	19.5	Medium stiff gray & tan clay w/silt pockets	40.3	80.2	112.6	1150 .29
8 -19.2	24.5	Soft gray clay w/organic clay layers	105.6	42.5	87.3	700 .175
9 -24.2	29.5	Soft gray clay w/silty clay layers	68.4	59.1	99.6	845 .21
10 -29.2	34.5	Medium stiff gray clay	73.8	56.3	97.8	1070 .27
11 -33.2	38.5	Soft gray clay w/fine sand lenses	81.3	52.0	94.2	800* .20
16 -44.2	49.5	Loose gray silty sand w/many shell fragments	26.8	----	-----	----

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SUMMARY OF LABORATORY TEST RESULTS

EL 5.7
BORING 44

Sample No.	Depth in Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF	Atterberg Limits LL	Atterberg Limits PL	Atterberg Limits PI
1 +4.2	1.5	Medium stiff gray & brown clay w/clayey sand pockets & trace of organic matter	31.5	83.9	110.3	1710, 43			
3 -2.3	8.0	Soft gray & tan clay w/sand layers & pockets	33.5	----	-----	----			
4 5.8	11.5	Soft gray clay w/organic matter, roots & clayey sand pockets	68.8	----	-----	----			
5 -8.8	14.5	Medium stiff gray & tan clay w/roots	48.8	----	-----	----			
14 -42.8	48.5	~~Loose gray clayey sand w/shell fragments~~	~~35.4~~	~~82.5~~	~~111.7~~	~~500*~~			

EL 5.7
BORING 45 5"

1 +4.2	1.5	Medium stiff tan & gray fissured clay w/silt pockets	29.7	86.7	112.5	1695, 42	100	27	73
2 +1.2	4.5	Medium stiff tan & gray fissured clay	43.8	74.9	107.6	1180, 295			
3 -2.8	7.5	Soft tan & gray fissured clay w/sand layers	48.8	71.6	106.5	670*, 17	84	26	58
4 -5.8	11.5	Soft gray & tan clay	57.0	66.5	104.5	730, 18			
5 -8.8	14.5	Medium stiff gray & tan clay	50.1	71.8	107.8	1125, 28	84	25	59

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SUMMARY OF LABORATORY TEST RESULTS

EL 5.9
BORING 46

Sample No.	Depth in Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF
2 +1.4	4.5	Medium stiff gray & brown clay w/clayey sand layers	34.2	82.1	110.1	1995 .50
3 -1.6	7.5	Medium stiff gray & tan clay w/trace of organic matter	50.9	69.5	104.9	1100 .275
4 -5.6	11.5	Very soft gray clay w/organic matter & roots	77.7	53.2	94.6	485 .12
5 -8.1	14.0	Soft gray & tan clay	58.9	64.6	102.7	975 .24
15 -47.6	53.5	Medium stiff gray clay w/sand lenses & pockets	66.4	58.5	97.4	1880 .47
16 -52.6	58.5	Stiff gray clay w/trace of sand	48.1	72.2	106.9	2240 .56
17 -57.6	63.5	Stiff greenish-gray & tan fissured clay w/clayey silt pockets	37.9	82.0	113.1	2195 .55

EL 5.5
BORING 47

2 +4.3	1.2	Soft gray & tan clay w/thick sand layers	37.3	78.4	107.6	910 .23
3 +2.3	3.2	Medium stiff brown & gray clay w/silt pockets & sand lenses	43.3	72.0	103.2	1340 .335
4 +0.3	5.2	Soft tan & gray clay w/sand lenses & pockets	28.1	91.0	116.6	855* .21
5 -2.2	7.7	Soft gray clay w/roots	72.6	55.8	96.3	600 .15
6 -5.2	10.7	Extremely soft gray & tan clay w/thick sand layers, pockets & roots	44.5	75.5	109.1	195 .05

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SUMMARY OF LABORATORY TEST RESULTS

EL 5.3
BORING 48

Sample No.	Depth in Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF
2 +3.6	1.7	Stiff gray clay w/sand pockets & roots	30.6	87.3	114.0	2300*, 575
3 +.6	4.7	Stiff brown & gray clay w/sand pockets & roots	41.0	75.2	106.0	2635 . 66
4 -2.4	7.7	Soft gray & tan clay w/thick sand layers	24.7	84.1	104.8	570* , 14
5 -5.4	10.7	Extremely soft gray clay w/roots, organic matter & wood	97.5	44.7	88.3	155 . 04
6 -8.4	13.7	Soft gray clay w/roots	58.7	64.0	101.6	990 . 25
7 -12.4	17.7	Soft gray clay w/organic matter & large roots	58.0	----	-----	----

EL 5.3
BORING 49

2 +3.6	1.7	Medium stiff gray & tan clay w/silt pockets	40.8	76.7	107.9	1640 . 41
3 +.6	4.7	Medium stiff gray & tan clay w/silt pockets & trace of organic matter	43.1	72.5	103.8	1425 . 36
4 -2.4	7.7	Soft brown & gray organic clay w/large roots	302.3	----	-----	----
5 -5.4	10.7	Soft gray & tan clay w/large roots	67.2	----	-----	----
6 -8.4	13.7	Soft gray clay w/roots	65.8	61.9	102.6	565 . 14

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SUMMARY OF LABORATORY TEST RESULTS
EL 4.3
BORING 50

Sample No.	Depth in Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF	Atterberg Limits LL	PL	PI
5	-3.9 8.2	Soft dark gray clay w/silt pockets & organic matter	51.6	64.1	97.2	805 ,20			
6	-6.4 10.7	Soft dark gray clay w/much organic matter & roots	104.2	41.7	85.2	700 ,175	161	45	116
7	-9.4 13.7	Very soft gray clay w/organic matter & wood	80.7	----	-----	----			
8	-13.9 18.2	Soft gray clay w/trace of organic matter	84.3	50.6	93.2	580 ,145			
20	-58.9 63.2	Medium stiff gray fissured clay w/sand pockets & partings	44.6	72.7	105.2	1545 ,39			
21	-63.9 68.2	Stiff gray clay w/shell fragments	44.5	75.3	108.8	2430 .61	80	25	55
22	-68.9 73.2	Stiff greenish-gray clay w/silt pockets & shell fragments	31.6	87.7	115.5	2300 ,575			
23	-72.4 76.7	Stiff greenish-gray & tan clay w/silt pockets	28.8	89.3	115.1	2500 .625	71	22	49
29	-87.4 91.7	Medium stiff gray clay w/sandy silt layers	46.0	75.8	110.6	1625 .41	74	23	51
30	-92.4 96.7	Stiff gray clay w/silt lenses	37.9	83.6	115.3	2800 .70			

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SUMMARY OF LABORATORY TEST RESULTS

EL 5.0
BORING 51

Sample No.	Depth in Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF
2 +3.3	1.7	Medium stiff gray & tan clay w/many sand lenses & layers	22.6	90.4	110.8	1070* .27
3 +0.3	4.7	Medium stiff black & gray clay w/roots & organic matter	42.6	72.4	103.2	1275 .32
4 -2.7	7.7	Medium stiff tan & gray clay w/sand lenses & layers	52.7	68.0	103.8	1210 .30
5 -5.7	10.7	Soft gray clay w/roots & organic matter	75.0	55.2	96.6	720 .18

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SUMMARY OF LABORATORY TEST RESULTS

EL 5.0
BORING 52

Sample No.	Depth in Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF
1 +3.0	2.0	Stiff gray & tan clay w/silt pockets & shell fragments	35.9	84.3	114.5	2255 .56
2 0	5.0	Medium stiff gray & tan clay w/silt pockets & trace of organic matter	65.2	59.8	98.7	1020 .255
3 -3	8.0	Soft gray clay w/organic clay layers, sand pockets & roots (fill)	67.0	----	-----	----
4 -6	11.0	Very soft gray clay w/much organic matter & roots	164.2	29.1	76.8	350 .09
5 -9	14.0	Soft gray clay w/organic matter & roots	91.2	48.2	92.2	550 .14
~~6~~	~~19.0~~	~~Very loose dark gray & gray clayey sand w/vertical sandy clay layers & roots~~	48.1	68.6	101.6	345*

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SUMMARY OF LABORATORY TEST RESULTS

EL 5.0
BORING 53

Sample No.	Depth in Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF
1 +3	2.0	Medium stiff gray & tan clay w/sand lenses, pockets & trace of organic matter	35.3	82.3	111.4	1545* ,39
2 -,5	5.5	Medium stiff gray & tan clay w/sand pockets	42.2	74.0	105.3	1510 ,38
3 -3	8.0	Medium stiff gray & tan clay w/vertical sand layers, organic matter & brick	44.4	----	-----	----
4 -9	14.0	Soft gray & tan clay w/decayed roots	87.0	----	-----	----
15 -54	59.0	Stiff gray & tan clay w/sand pockets & shell fragments	45.2	75.3	109.3	2055 ,51
16 -59	64.0	Stiff gray clay w/sand pockets	54.3	68.2	105.2	2155 ,54
17 -64	69.0	Medium stiff gray clay w/shell fragments	54.6	67.8	104.8	1705 ,43

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METAIRIE, LOUISIANA

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SUMMARY OF LABORATORY TEST RESULTS

EL 5.2
BORING 54

Sample No.	Depth in Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF
1	+3.2 2.0	Very stiff brown & gray clay w/clayey sand pockets & roots	29.7	91.2	118.3	4640 1.16
2	+.2 5.0	Medium stiff gray clay w/silt pockets & roots	52.7	67.6	103.2	1685 .42
3	-2.8 8.0	Medium stiff gray & tan clay w/clayey silt pockets	30.2	91.8	119.5	1330 .33
4	-8.8 14.0	Soft gray clay w/clayey silt pockets & roots	45.6	75.7	110.2	790 .20
5	-13.8 19.0	Soft gray clay w/roots	73.6	56.1	97.3	520 .13

EL 4.5
BORING 55

Sample No.	Depth in Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF
1	+2.5 2.0	Medium stiff gray & brown clay w/clayey sand pockets, roots & fill	38.9	80.3	111.6	1675 .42
2	-1.5 5.0	Medium stiff gray & brown clay w/clayey silt pockets & roots	49.7	70.5	105.5	1310 .33
3	-6.5 11.0	Soft gray clay w/roots & fine sandy silt pockets	46.5	72.2	105.8	575 .14
4	-9.5 14.0	Soft gray clay w/roots	58.7	64.0	101.5	700 .175
~~5~~	~~19.0~~	~~Medium dense gray silty sand~~	23.9	----	----	----

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SUMMARY OF LABORATORY TEST RESULTS

EL 4.6
BORING 56 S"

Sample No.	Depth in Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF		Atterberg Limits LL	PL	PI
1 +2.6	2.0	Medium stiff brown & gray clay w/clayey sand pockets	33.8	83.4	111.6	1690	.42			
2 -.4	5.0	Soft brown & gray clay w/organic clay layers	94.1	46.1	89.5	540	.135	124	34	90
3 -3.4	8.0	Soft dark gray & brown clay w/sand lenses, clayey sand pockets & trace of organic matter	68.6	57.8	97.4	780	.195			
4 -9.4	14.0	Extremely soft gray clay w/clayey sand pockets & roots	63.4	62.8	102.5	155	.04	79	24	55

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SUMMARY OF LABORATORY TEST RESULTS

EL 4.0
BORING 57

Sample No.	Depth in Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF		Atterberg Limits LL	PL	PI
1 +2	2.0	Medium dense brown & gray clayey sand w/roots & few shell fragments	18.9	----	-----	----				
~~2~~	~~5.0~~	~~Medium compact gray clayey silt w/sandy silt layers & clay pockets~~	27.9	92.5	118.3	~~1200*~~				
12 -40	44.0	Medium stiff gray clay w/trace of sand & shell fragments	66.3	59.8	99.5	1760	.44			
13 -45	49.0	Medium stiff gray clay w/sand pockets & shell fragments	49.5	71.2	106.4	1080	.27	71	21	50
14 -50	54.0	Medium stiff gray clay w/fine sandy silt pockets	43.7	76.6	110.1	1260	.315			
15 -55	59.0	Stiff dark gray organic clay	101.2	43.3	87.1	3015	.75	163	42	121
16 -60	64.0	Stiff greenish-gray silty clay w/fine sand	19.1	109.1	129.9	3495	.87			
17 -63	67.0	Stiff greenish-gray & tan clay w/silt lenses	31.5	90.7	119.3	3590	.90			
21 -75	79.0	Stiff gray clay w/fine sandy silt lenses	37.7	83.5	115.0	2370*	.59			
23 -85	89.0	Stiff gray fissured clay w/silt lenses	44.7	77.0	111.5	3885	.97	76	22	54
25 -95	99.0	Medium stiff gray fissured clay w/silt lenses	45.4	75.5	109.8	1560	.39			

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SUMMARY OF LABORATORY TEST RESULTS

EL 3.5
BORING 58

Sample No.	Depth in Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF
1+1.5	2.0	Stiff gray & brown clay w/clayey sand pockets	33.8	86.6	115.9	3455 .86
2 -1.5	5.0	Medium stiff gray clay w/clayey sand pockets	34.5	83.6	112.4	1410 .35
4 -7.5	11.0	Soft dark gray clay w/many roots	62.5	60.6	98.4	920 .23
5 -10.5	14.0	Very soft gray clay w/clayey sand pockets, roots & wood	37.7	----	-----	----
6	~~19.0~~	~~Dense gray silty sand w/clay pockets~~	23.1	103.2	127.0	~~2220*~~

EL 3.5
BORING 59

1+1.5	2.0	Soft brown & gray clay w/clayey sand pockets, roots & some fill	34.9	84.4	113.8	865 .22
2 -1.5	5.0	Medium stiff dark gray & brown clay w/clayey sand pockets & roots	39.9	76.5	107.0	1365 .34
3 -7.5	11.0	Medium compact gray sandy silt w/clay layers & wood	32.5	----	-----	----
13 -45.5	49.0	Medium stiff gray fissured clay w/clayey sand pockets & shell fragments	65.4	60.5	100.0	1815 .45

*Unconsolidated Undrained Triaxial Compression Test - One Specimen; Confined at the approximate overburden pressure.

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New Orleans, Louisiana

SUMMARY OF LABORATORY TEST RESULTS

EL 3.7
BORING 60

Sample No.	Depth in Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF	
1 +1.7	2.0	Stiff brown & gray clay w/clayey sand pockets & roots	34.0	86.1	115.4	2160	.54
2 -1.3	5.0	Soft gray & tan clay w/organic clay layers & roots	62.9	59.6	97.1	910	.23
3 -4.3	8.0	Extremely soft brown humus w/organic clay layers & roots	296.4	18.0	71.5	195	.05
4 -7.3	11.0	Soft brown organic clay w/humus layers, wood & roots	122.8	----	-----	----	

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SUMMARY OF LABORATORY TEST RESULTS
EL 4.6
BORING 61

Sample No.	Depth in Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF
~~1~~	~~2.0~~	~~Very compact tan & gray clayey silt w/clay pockets & roots~~	~~17.5~~	~~104.9~~	~~123.2~~	~~3190*~~
~~2~~	~~5.0~~	~~Dense tan & gray clayey sand w/clay lenses & roots~~	~~17.0~~	~~101.5~~	~~118.7~~	~~2025*~~
3 - 3.4 - 8.0		Soft gray silty clay w/clayey sand pockets & trace of organic matter	39.6	79.3	110.7	675 .17
4 - 6.4 - 11.0		Medium stiff dark gray clay w/organic matter & wood	78.5	52.4	93.5	1175 .29
5 - 9.4 - 14.0		Stiff brown organic clay w/humus layers	240.1	20.0	68.2	3720 .93
6 - 14.4 - 19.0		Soft gray silty clay w/alternating clayey silt & sandy silt layers	26.7	98.5	124.8	555 .14
14 - 44.4 - 49.0		Soft gray clay w/clayey sand pockets & shell fragments	46.2	74.0	108.2	850 .21
15 - 49.4 - 54.0		Medium stiff gray clay w/sand pockets & few shell fragments	46.3	73.9	108.1	1650 .41
16 - 54.4 - 59.0		Stiff greenish-gray & tan clay w/trace of sand	27.0	96.5	122.6	3100 .78
17 - 59.4 - 64.0		Very stiff tan & gray clay w/silt pockets & concretions	30.5	92.3	120.5	4225 1.06

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SUMMARY OF LABORATORY TEST RESULTS
EL -4.0
BORING 62

Sample No.	Depth in Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF	
1 -4.0	2.0	Medium stiff gray & tan clay w/clayey silt pockets	45.8	72.4	105.5	1475	.37
2 -9.0	5.0	Soft brown organic clay w/many roots	179.7	27.4	76.5	625	.16
3 -12.0	8.0	Very soft gray silty clay w/organic matter & roots	48.7	71.7	106.6	390	.10
15 -48.0	44.0	Medium stiff gray clay w/sand pockets & few shell fragments	55.2	65.8	102.1	1515	.38
16 -53.0	49.0	Medium stiff gray clay w/trace of silt	49.1	71.3	106.3	1325	.33

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SUMMARY OF LABORATORY TEST RESULTS

EL 8.5
BORING 63

Sample No.	Depth in Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF	Atterberg Limits LL	PL	PI
1 +6.5	2.0	Medium stiff tan & gray clay w/sand lenses & layers (fill)	20.2	96.5	116.0	1105* .28			
2 +3.5	5.0	Stiff tan & gray clay w/clayey sand pockets & lenses	29.6	87.8	113.8	2940 .735			
3 +1.5	8.0	Soft brown & gray clay w/dense clayey sand layers & few shell fragments	28.1	86.3	110.6	950* .24	60	18	42
4 -2.5	11.0	Soft brown & gray silty clay w/fine sand & silt pockets & layers	30.0	89.3	116.1	610* .15			
5 -5.5	14.0	Medium stiff dark gray clay w/some organic matter (fill)	73.8	49.5	86.1	1150* .29			
6 -10.5	19.0	Soft gray clay w/humus layers & silt pockets	55.6	64.2	99.9	820 .205	57	16	41
7	~~24.0~~	~~Medium dense gray silty sand w/clay lenses~~	~~27.3~~	~~94.0~~	~~119.7~~	~~4900*~~			

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SUMMARY OF LABORATORY TEST RESULTS

BORING 63
(Cont'd)

Sample No.	Depth in Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF	Atterberg Limits LL	PL	PI
16 -50.5	59.0	Medium stiff gray clay w/trace of fine sand & few shell fragments	51.7	69.1	104.8	1290 .32			
17 -55.5	64.0	Stiff greenish-gray clay w/trace of sand	24.6	98.4	122.7	2800 .7			
18 -60.5	69.0	Stiff greenish-gray & tan clay w/clayey silt pockets	27.3	94.3	120.0	3810* .95			
23 -80.5	89.0	Medium stiff gray clay w/clayey silt lenses & layers	44.9	75.7	109.7	1655 .41	43	16	27
25 -90.5	99.0	Ditto	37.8	82.3	113.4	1345 .34			

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SUMMARY OF LABORATORY TEST RESULTS
EL 1.5
BORING 64

Sample No.	Depth in Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF
1 -1.5	2.0	Very stiff brown & gray silty clay w/roots	21.5	----	-----	----
2 -3.5	5.0	Medium stiff gray clay w/many sand pockets & roots	22.8	83.3	102.3	1080* .27
3 -6.5	8.0	Medium stiff brown & gray silty clay w/sand pockets	31.1	86.5	113.4	1205 .30
4 -9.5	11.0	Medium stiff gray clay w/sandy clay layers & pockets	34.6	85.0	114.5	1115 .28
5 -12.5	14.0	Extremely soft gray clay w/vertical clayey sand layers & trace of organic matter	68.7	57.9	97.2	205* .05

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SUMMARY OF LABORATORY TEST RESULTS

EL 3.0
BORING 65 5"

Sample No.	Depth In Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF	
1 +1	2.0	Stiff brown & gray silty clay w/sandy silt pockets & roots	19.9	92.8	111.3	2900*	.725
2 -2	5.0	Stiff gray & tan fissured clay w/roots & silt	30.2	83.2	108.3	3145*	.79
3 -5	8.0	Medium stiff gray & tan clay w/silt pockets	33.6	84.3	112.6	1435	.36
4 -8	11.0	Soft gray clay w/sand lenses & layers	56.5	66.7	104.4	605	.15

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SUMMARY OF LABORATORY TEST RESULTS

EL 4.1

BORING 66

Sample No.	Depth In Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF		Atterberg Limits LL	Atterberg Limits PL	Atterberg Limits PI
1	2.0	Compact brownish-gray clayey silt w/roots, trace of sand & few shells	11.9	105.9	118.5	2080*				
2	5.0	Loose brown & gray clayey silt w/sand & shells	20.8	88.8	107.3	560*				
3 -3.9	8.0	Medium stiff brown & gray clay w/clayey sand pockets	46.6	73.5	107.8	1265	.32	90	27	63
4 -6.9	11.0	Very soft gray clay w/clayey sand layers, pockets & shell fragments	33.7	85.6	114.5	365	.09			
5	14.0	Loose gray silty sand w/clay pockets & shell fragments	26.7	97.8	123.9	605*		24	19	5
6 -14.9	19.0	Loose gray silty sand w/many shells	65.6	----	-----	----				
7	24.0	Loose gray silty sand w/silty clay layers	30.2	92.7	120.7	545*				

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SUMMARY OF LABORATORY TEST RESULTS

EL 4.0
BORING 67

Sample No.	Depth In Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF
~~1~~	~~2.0~~	~~Very compact brown & gray clayey silt w/sand pockets & roots.~~	~~15.8~~	~~107.7~~	~~124.7~~	~~4890*~~
2 - 1	5.0	Stiff brown & gray clay with sandy silt pockets & shell fragments	24.3	98.1	121.9	3980 .995
~~3 - 4~~	~~8.0~~	Extremely soft gray & tan clay w/sand pockets & shell fragments	34.4	----	-----	----
~~4 - 7~~	~~11.0~~	Loose gray silty sand w/clayey sand layers	26.4	----	-----	----
5 - 10	14.0	Soft gray clay w/sand pockets & shell fragments	53.0	67.3	102.9	510 .13
6 - 15	19.0	Soft gray clay	100.6	44.8	90.0	715 .18

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SUMMARY OF LABORATORY TEST RESULTS

EL 3.8
BORING 68

Sample No.	Depth In Feet	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF	
1	+1.8 2.0	Extremely stiff brown & gray silty clay w/sand pockets & roots	19.8	102.3	122.6	9675*	2.42
~~2~~	~~5.0~~	~~Loose brown & gray clayey silt w/clay layers & shells (fill)~~	~~27.6~~	~~93.6~~	~~119.4~~	~~960*~~	
3	-4.2 8.0	Soft dark gray silty clay w/clayey silt layers & shell fragments	30.5	88.1	114.9	810*	.20
4	-10.2 14.0	Soft gray clay w/silt pockets	64.7	60.6	99.9	920	.23
5	-15.2 19.0	Soft gray clay w/sand pockets & shell fragments	45.5	74.7	108.7	805	.20
7	29.0	~~Very loose gray clayey sand w/large shell fragments & sandy clay layers~~	~~27.7~~	~~97.1~~	~~124.0~~	~~415*~~	
8	-30.2 34.0	Medium stiff gray clay w/sand pockets	52.1	68.4	104.0	1090	.27
9	39.0	~~Loose gray clayey sand w/shell fragments~~	23.3	----	-----	----	

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SUMMARY OF LABORATORY TEST RESULTS
EL 5.3
BORING 69

Sample No.	Depth In Feet (FL.)	Classification	Water Content Percent	Density PCF Dry	Density PCF Wet	Unconfined Compressive Strength PSF	
2	+.3 5.0	Medium compact tan & gray clayey silt w/shell fragments	14.6	----	-----	----	
~~3~~	~~8.0~~	~~Medium compact brown & gray clayey silt w/shell fragments~~	~~24.2~~	~~96.1~~	~~119.4~~	~~1535*~~	
4	-5.7 11.0	Medium stiff gray clay w/silt lenses	53.2	67.7	103.8	1035	.26
~~8~~	~~24.0~~	~~Very loose gray silty sand w/clay pockets, layers & shell fragments~~	~~40.7~~	~~80.7~~	~~113.5~~	~~75*~~	
10	-28.7 34.0	Soft gray clay w/sand pockets	36.3	84.4	115.0	690	.17
11	-33.7 39.0	Soft gray clay w/silt lenses	64.8	61.1	100.7	785	.20
~~12~~	~~44.0~~	~~Loose gray silty sand w/sandy clay layers, pockets & shell fragments~~	~~25.4~~	----	-----	----	

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SUMMARY OF LABORATORY TEST RESULTS

BORING 74

Sample No.	Depth In Feet	Classification	Water Content Percent
1	11.5	Extremely soft black muck	68.1
2	15.5	Medium stiff gray & tan clay w/trace of silt	45.6
3	19.0	Loose gray clayey silt	38.7

BORING 75

1	12.5	Medium stiff gray & tan clay w/clayey silt pockets	34.7
2	15.5	Ditto	36.8

BORING 76

1	11.5	Medium stiff gray & tan clay w/clayey silt pockets & roots	54.2
3	19.0	Medium stiff gray clay w/organic matter & roots	125.7

BORING 77

1	10.5	Extremely soft gray sandy clay w/organic matter & roots	54.9
3	17.0	Loose to medium dense gray sand	22.9

BORING 78

1	10.0	Extremely soft dark gray sandy clay w/some organic matter	79.8
2	14.0	Medium dense gray sand	13.9

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SUMMARY OF LABORATORY TEST RESULTS

BORING 79

Sample No.	Depth In Feet	Classification	Water Content Percent
1	10.5	Loose dark gray sand w/organic matter	43.6
3	17.0	Medium dense gray sand	24.3

BORING 80

1	11.5	Loose gray sand w/trace of organic matter	25.4
3	17.5	Loose to medium dense dark gray sand	26.3

BORING 81

1	11.0	Very soft gray organic clay w/silty sand layers	79.9
2	14.0	Medium dense gray sand	22.9

BORING 82

1	10.0	Loose gray clayey sand w/organic matter	49.6
2	13.0	Loose gray clayey sand	36.2
3	15.0	Loose gray sand	27.2

BORING 83

1	11.0	Very soft gray clay w/sand pockets & roots	75.9
2	14.5	Loose gray sand	29.9
4	19.5	Medium dense gray sand	24.0

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SUMMARY OF LABORATORY TEST RESULTS

BORING 84

Sample No.	Depth In Feet	Classification	Water Content Percent
1	11.0	Extremely soft dark gray clay w/organic matter & sand	108.1
2	14.5	Loose dark gray clayey sand	31.0
3	17.5	Very loose gray sand	33.1

BORING 85

1	11.0	Extremely soft gray clay w/much organic matter & sand	76.5
2	13.5	Loose gray clayey sand w/roots	41.1
4	20.5	Loose gray sand	27.8

BORING 86

1	12.5	Very soft gray clay w/some sand	95.1
2	14.5	Loose gray clayey sand	34.2
3	17.0	Medium dense gray sand	23.5

BORING 87

1	12.0	Very soft gray clay w/clayey silt layers, organic matter & roots	43.4
2	14.0	Soft gray clay w/clayey sand pockets & roots	66.1
3	17.0	Loose gray sand	28.3

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SUMMARY OF LABORATORY TEST RESULTS

BORING 88

Sample No.	Depth In Feet	Classification	Water Content Percent
1	12.0	Very soft gray clay w/organic matter & sand	95.5
2	14.5	Loose gray clayey sand	25.0
4	20.5	Loose gray sand	28.3

BORING 89

1	10.5	Very soft gray clay w/many roots	74.4
2	12.0	Extremely soft dark gray sandy clay w/some organic matter	83.9
4	17.0	Loose gray sand	29.0

BORING 90

1	11.5	Loose gray clayey sand w/cinders & fill	33.3
2	14.0	Loose gray clayey sand w/wood	35.0
3	16.5	Loose gray clayey sand w/shell fragments	26.8
4	19.5	Very loose gray silty sand w/shell fragments	26.3

BORING 91

1	11.0	Very soft brown humus w/clay layers & wood	231.8
2	14.0	Very loose gray sand	26.3
3	16.5	Very loose gray clayey sand	27.2
4	19.5	Very loose gray clayey sand w/shell fragments	31.1

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SUMMARY OF LABORATORY TEST RESULTS

BORING 92

Sample No.	Depth In Feet	Classification	Water Content Percent
1	11.5	Very soft gray clay w/organic clay layers & roots	103.4
2	14.5	Very loose gray silty sand w/clay layers	28.0
3	17.0	Loose gray clayey sand	27.0
4	20.0	Loose gray clayey sand w/shell fragments	24.8

BORING 93

1	13.5	Extremely soft gray clay w/trace of sand	96.4
3	17.5	Soft gray silty clay w/sand pockets	46.4
5	21.5	Loose gray clayey sand w/shell fragments	24.2

BORING 94

2	16.5	Very loose gray silty sand	24.2
4	20.5	Ditto	25.7

BORING 95

2	15.5	Extremely soft gray clay w/organic matter	109.1
3	17.5	Loose gray clayey sand w/shell fragments	25.4
5	21.5	Loose gray fine sand w/trace of clay & shell fragments	20.8

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BORING 96

Sample No.	Depth In Feet	Classification	Water Content Percent
1	11.0	Extremely soft black muck	168.2
3	15.0	Soft gray clay w/clayey sand pockets & trace of organic matter	63.6
4	18.5	Loose gray clayey sand	23.6

BORING 97

1	11.0	Extremely soft gray sandy clay	52.4
3	17.5	Medium dense gray clayey sand	23.8

BORING 98

1	8.0	Loose gray sand w/organic matter	40.8
3	15.5	Extremely soft gray clay w/trace of organic matter	116.2

BORING 99

1	9.0	Extremely soft gray clay w/organic matter & sand pockets	117.0
3	17.0	Extremely soft gray clay	90.0

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SUMMARY OF LABORATORY TEST RESULTS

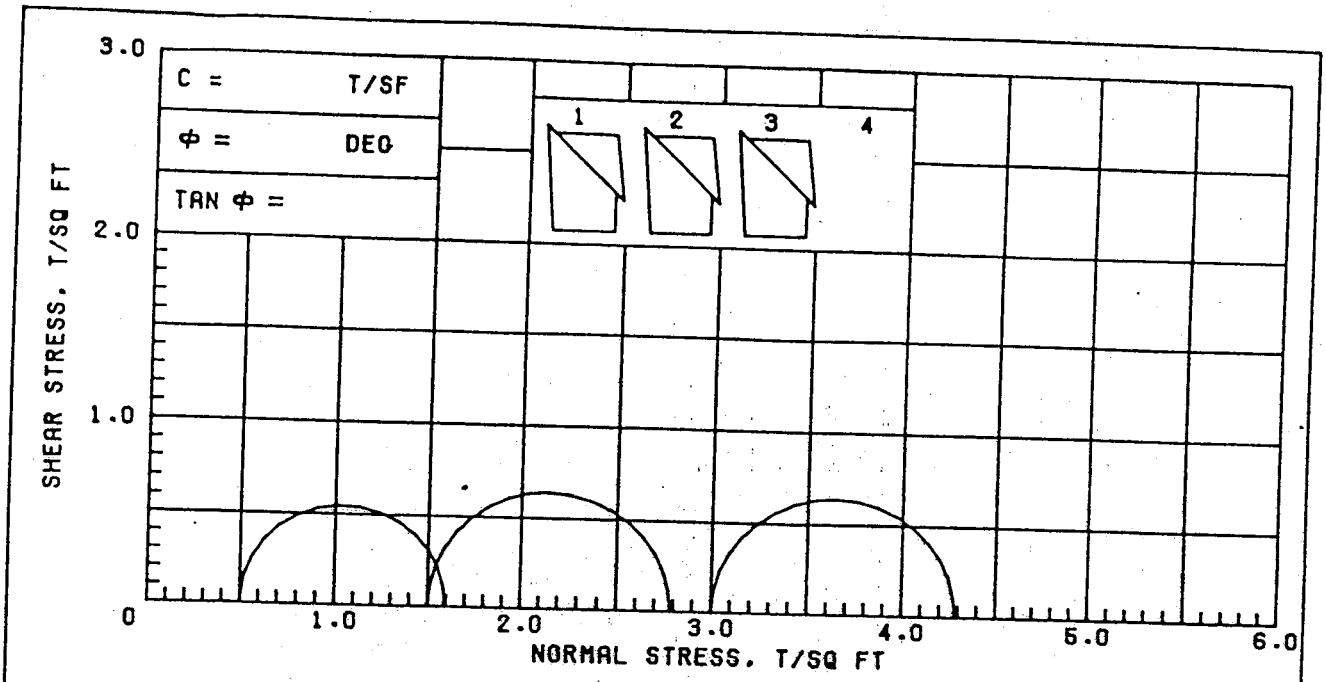
BORING 100

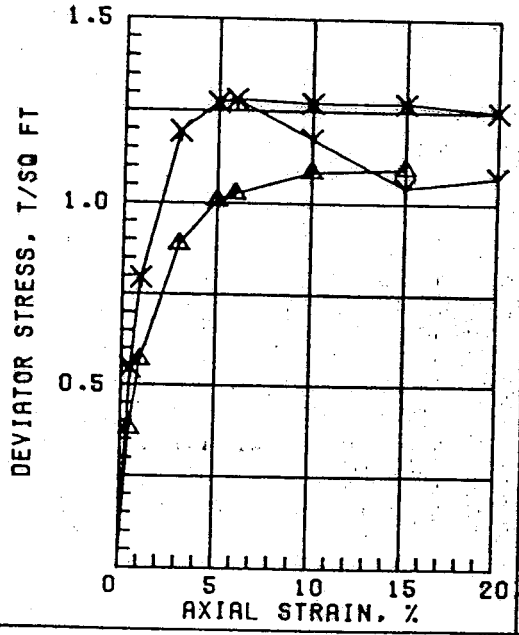
Sample No.	Depth In Feet	Classification	Water Content Percent
2	14.5	Very soft gray clay w/sand pockets	55.9
4	19.0	Medium compact gray clayey silt w/fine sand & shell fragments	32.7

BORING 101

1	18.5	Medium compact gray clayey silt w/silty clay layers, shells & sand pockets	28.0

APPENDIX C





SPECIMEN NO.		△1	Y2	X3	4
INITIAL	WATER CONTENT, %	34.1	33.2	34.0	
	DRY DENSITY, PCF	84.3	85.9	85.4	
	SATURATION, %	92.0	93.1	94.4	
	VOID RATIO	1.000	0.963	0.973	
BEFORE SHEAR	WATER CONTENT, %				
	DRY DENSITY, PCF				
	SATURATION, %				
	VOID RATIO				
	BACK PRESS., TSF				
MIN PRIN. STRESS, TSF		0.5	1.5	3.0	
MAX. DEV. STRESS, TSF		1.10	1.28	1.28	
TIME TO FAILURE, MIN.		30	12	12	
RATE OF STRAIN INCR.%					
INITIAL DIAMETER, IN.		1.40	1.40	1.40	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

DESCRIPTION OF SPECIMENS: PLASTIC CLAY (CH), GRAY; SILT POCKETS; SHELL PARTICLES

LL 61	PL 20	PI 41	OS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS;

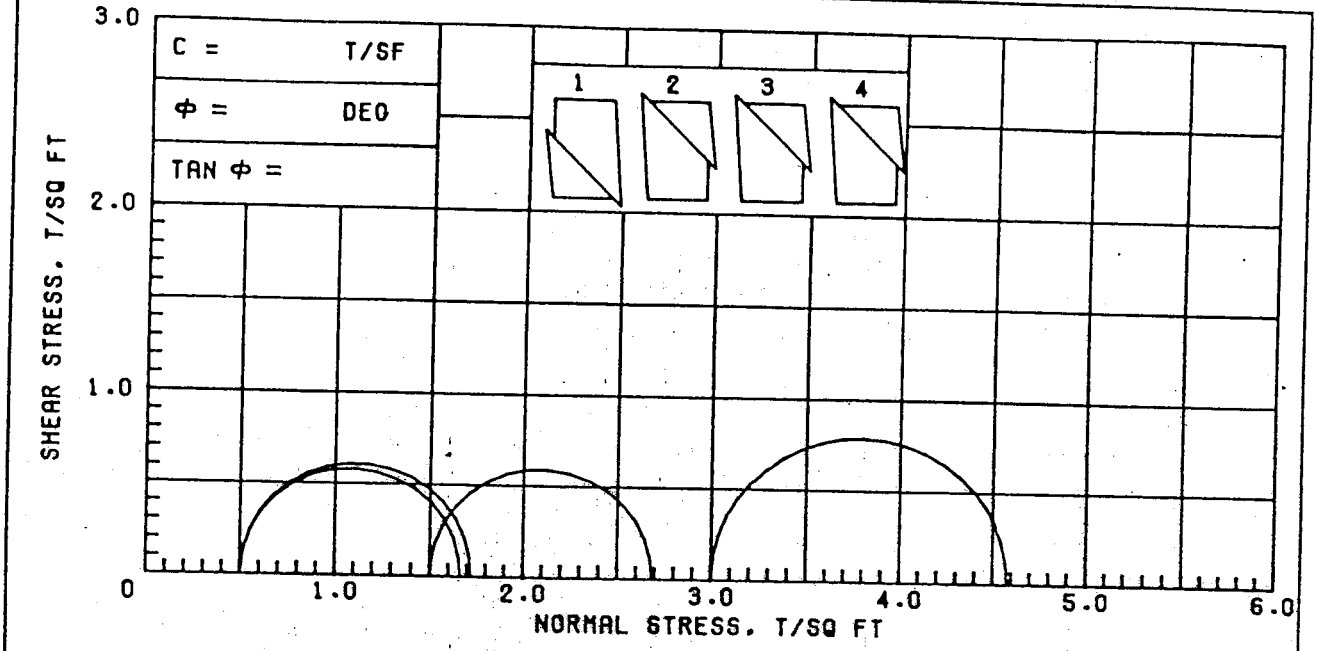
PROJECT LK. PONT. LA. & VIC. HURR. PROT.
ORLEANS PARISH OUTFALL CANALS

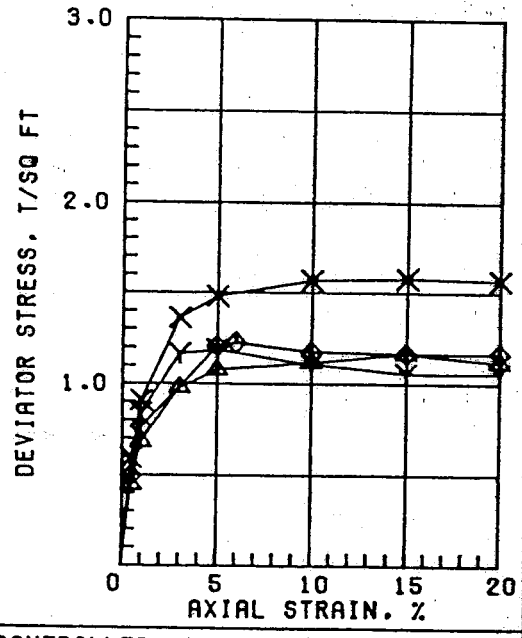
BORING NO. 1-LUG	SAMPLE NO. 2-B
DEPTH/ELEV 4.7/4.7	TECH. KOC
LABORATORY USAE WES	DATE 24 AUG 84

TRIAXIAL COMPRESSION TEST REPORT

Encl 2

Enclosure 2





SPECIMEN NO.		△1	Y2	X3	◇4
INITIAL	WATER CONTENT, %	30.1	31.9	31.0	30.4
	DRY DENSITY, PCF	88.2	86.8	88.2	88.4
	SATURATION, %	89.1	91.5	92.0	90.5
	VOID RATIO	0.912	0.942	0.910	0.907
BEFORE SHEAR	WATER CONTENT, %				
	DRY DENSITY, PCF				
	SATURATION, %				
	VOID RATIO				
	BACK PRESS., TSF				
MIN PRIN. STRESS, TSF		0.5	1.5	3.0	0.5
MAX. DEV. STRESS, TSF		1.16	1.18	1.58	1.22
TIME TO FAILURE, MIN.		30	10	30	12
RATE OF STRAIN INCR.%					
INITIAL DIAMETER, IN.		1.41	1.41	1.41	1.41
INITIAL HEIGHT, IN.		3.00	3.00	3.00	3.00

CONTROLLED-STRAIN TEST

DESCRIPTION OF SPECIMENS: PLASTIC CLAY (CH), DARK GRAY; SILT POCKETS

LL	PL	PI	GS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS;

PROJECT LK. PONT. LA. & VIC. HURR. PROT.

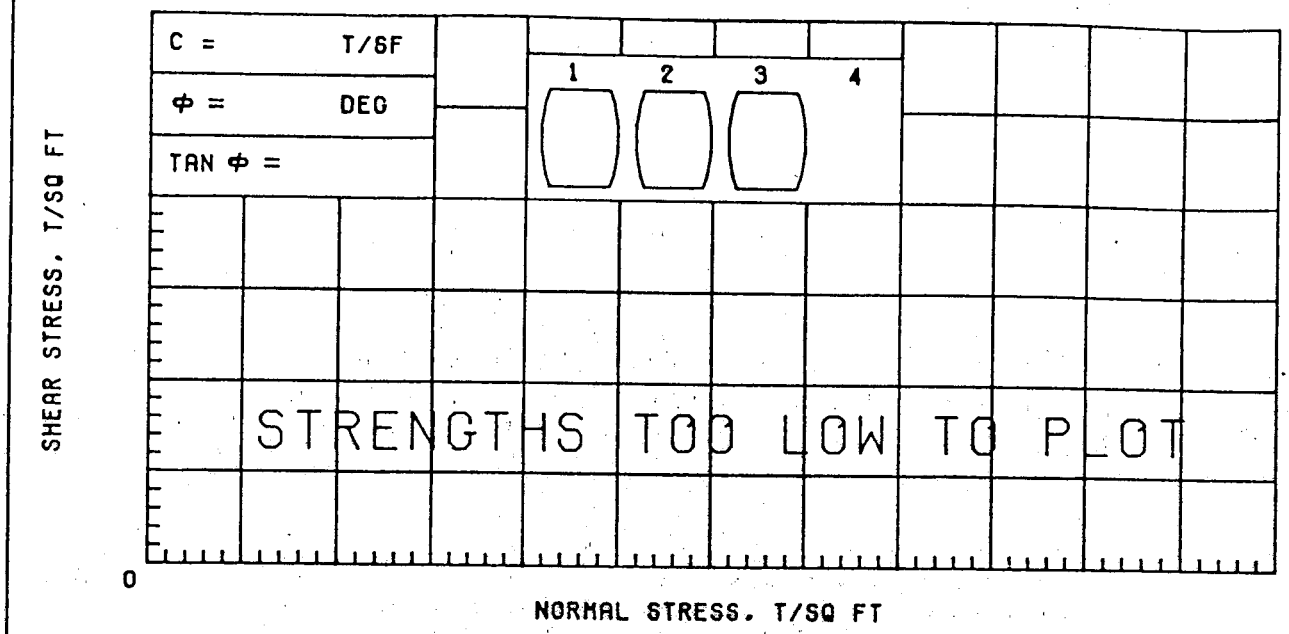
ORLEANS PARISH OUTFALL CANALS

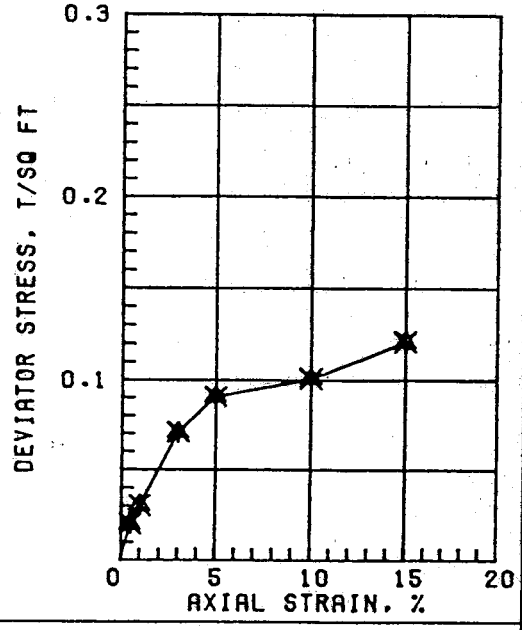
BORING NO. 1-LUG | SAMPLE NO. 2-C

DEPTH/ELEV 5.8/3.6 | TECH. KOC

LABORATORY USAE WES | DATE 10 SEP 84

TRIAXIAL COMPRESSION TEST REPORT





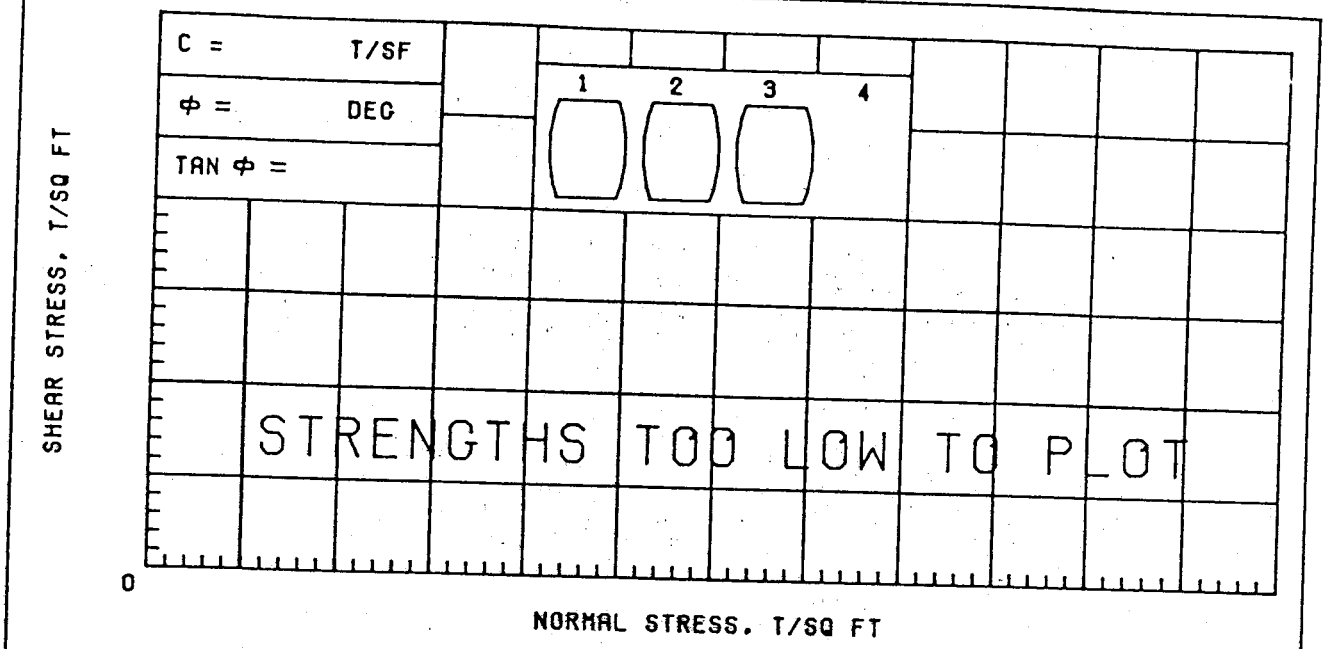
SPECIMEN NO.		Δ1	Y2	X3	4
INITIAL	WATER CONTENT, %	34.3	34.4	34.7	
	DRY DENSITY, PCF	83.4	83.6	82.4	
	SATURATION, %	90.7	91.3	89.5	
	VOID RATIO	1.022	1.017	1.047	
BEFORE SHEAR	WATER CONTENT, %				
	DRY DENSITY, PCF				
	SATURATION, %				
	VOID RATIO				
	BACK PRESS., TSF				
MIN PRIN. STRESS, TSF		0.5	1.5	3.0	
MAX. DEV. STRESS, TSF		0.12	0.12	0.12	
TIME TO FAILURE, MIN.		30	30	30	
RATE OF STRAIN INCR.%					
INITIAL DIAMETER, IN.		1.39	1.40	1.39	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	

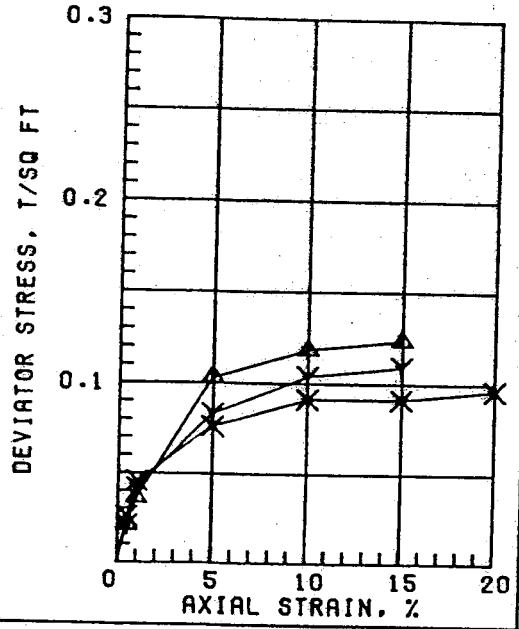
CONTROLLED-STRAIN TEST

DESCRIPTION OF SPECIMENS: CLAY (CL), GRAY; SHELL PARTICLES

LL 33	PL 17	PI 16	GS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS:	PROJECT LK. PONT. LA. & VIC. HURR. PROT.	
	ORLEANS PARISH OUTFALL CANALS	
	BORING NO. 1-LUO	SAMPLE NO. 4-B
	DEPTH/ELEV 11.8/-2.4	TECH. KOC
	LABORATORY USAE WES	DATE 11 SEP 84
	TRIAXIAL COMPRESSION TEST REPORT	





SPECIMEN NO.		Δ1	Y2	X3	4
INITIAL	WATER CONTENT, %	34.3	36.7	33.8	
	DRY DENSITY, PCF	88.4	86.6	88.9	
	SATURATION, %	100+	100+	100+	
	VOID RATIO	0.892	0.931	0.882	
BEFORE SHEAR	WATER CONTENT, %				
	DRY DENSITY, PCF				
	SATURATION, %				
	VOID RATIO				
	BACK PRESS., TSF				
MIN PRIN. STRESS, TSF		0.5	1.5	3.0	
MAX. DEV. STRESS, TSF		0.12	0.11	0.09	
TIME TO FAILURE, MIN.		30	30	20	
RATE OF STRAIN INCR,%					
INITIAL DIAMETER, IN.		1.38	1.37	1.39	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

DESCRIPTION OF SPECIMENS: SILT (ML), DARK GRAY

LL	PL	PI	GS 2.68 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS:

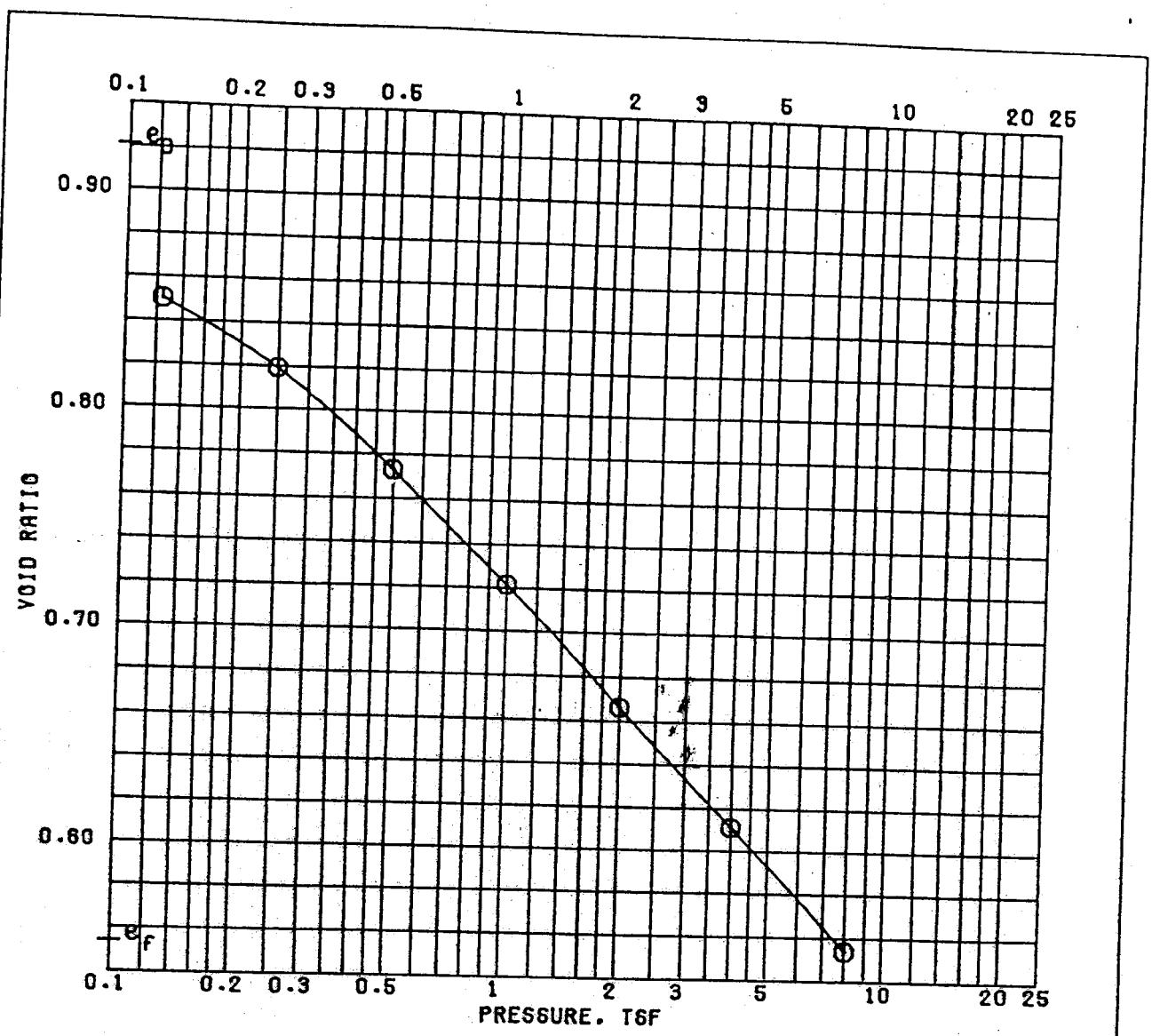
PROJECT LK. PONT. LA. & VIC. HURR. PROT.
ORLEANS PARISH OUTFALL CANALS

BORING NO. 1-LUG | SAMPLE NO. 5-B

DEPTH/ELEV 15.8/-6.4 | TECH. PJR

LABORATORY USAE WES | DATE 11 SEP 84

TRIAXIAL COMPRESSION TEST REPORT



			BEFORE TEST	AFTER TEST
OVERBURDEN PRESSURE, TSF		WATER CONTENT, %	32.9	20.3
PRECONSOL. PRESSURE, TSF		DRY DENSITY, PCF	87.8	108.5
COMPRESSION INDEX		SATURATION, %	96.4	99.1
TYPE SPECIMEN	UNDISTURBED	VOID RATIO	0.921	0.553
DIA. IN 4.44	HT. IN 1.116	BACK PRESSURE, TSF		

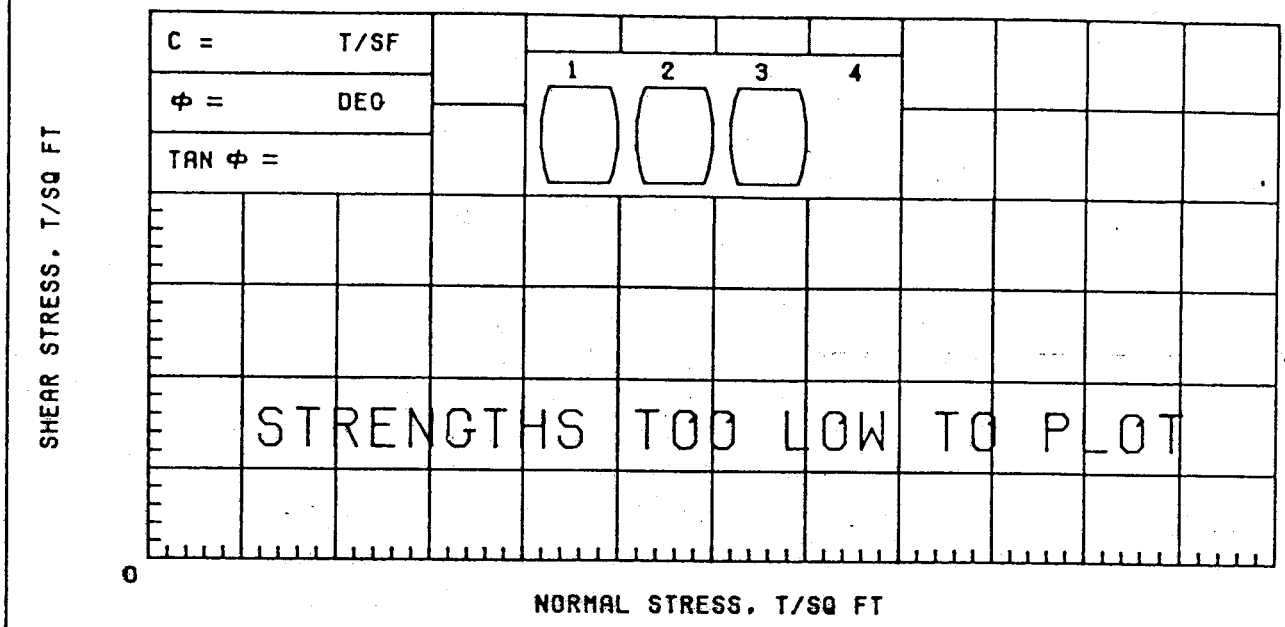
CLASSIFICATION PLASTIC CLAY (CH), GRAY; SILT LENSES

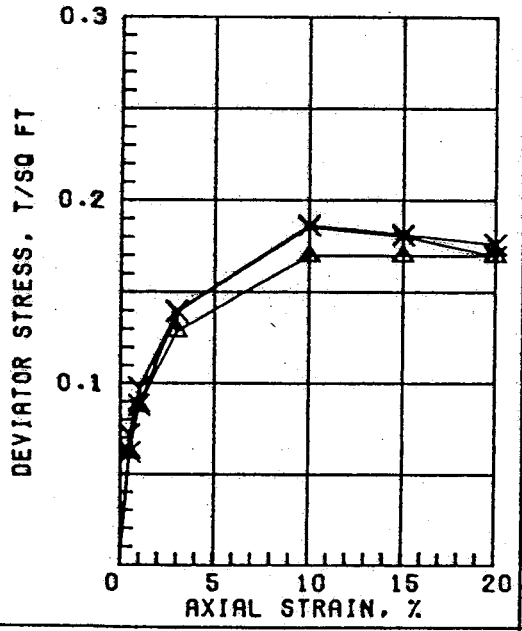
LL	PL	PI

PROJECT LK. PONT. LA. & VIC. HURR. PROT.	
ORLEANS PARISH OUTFALL CANALS	
BORING NO. 1-LUO	SAMPLE NO. 5-B
DEPTH/ELEV 16.1/-6.7	DATE 21 SEP 84

GS 2.70 (EST)	D_{10}
REMARKS	

CONSOLIDATION TEST REPORT





SPECIMEN NO.		Δ1	Y2	X3	4
INITIAL	WATER CONTENT, %	34.4	34.2	34.8	
	DRY DENSITY, PCF	87.4	87.5	87.3	
	SATURATION, %	100+	100+	100+	
	VOID RATIO	0.922	0.919	0.924	
BEFORE SHEAR	WATER CONTENT, %				
	DRY DENSITY, PCF				
	SATURATION, %				
	VOID RATIO				
	BACK PRESS., TSF				
MIN PRIN. STRESS, TSF		0.5	1.5	3.0	
MAX. DEV. STRESS, TSF		0.17	0.19	0.19	
TIME TO FAILURE, MIN.		20	20	20	
RATE OF STRAIN INCR,%					
INITIAL DIAMETER, IN.		1.38	1.38	1.38	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

DESCRIPTION OF SPECIMENS: CLAYEY SILT (ML), DARK GRAY

LL	PL	PI	GS 2.69 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS:

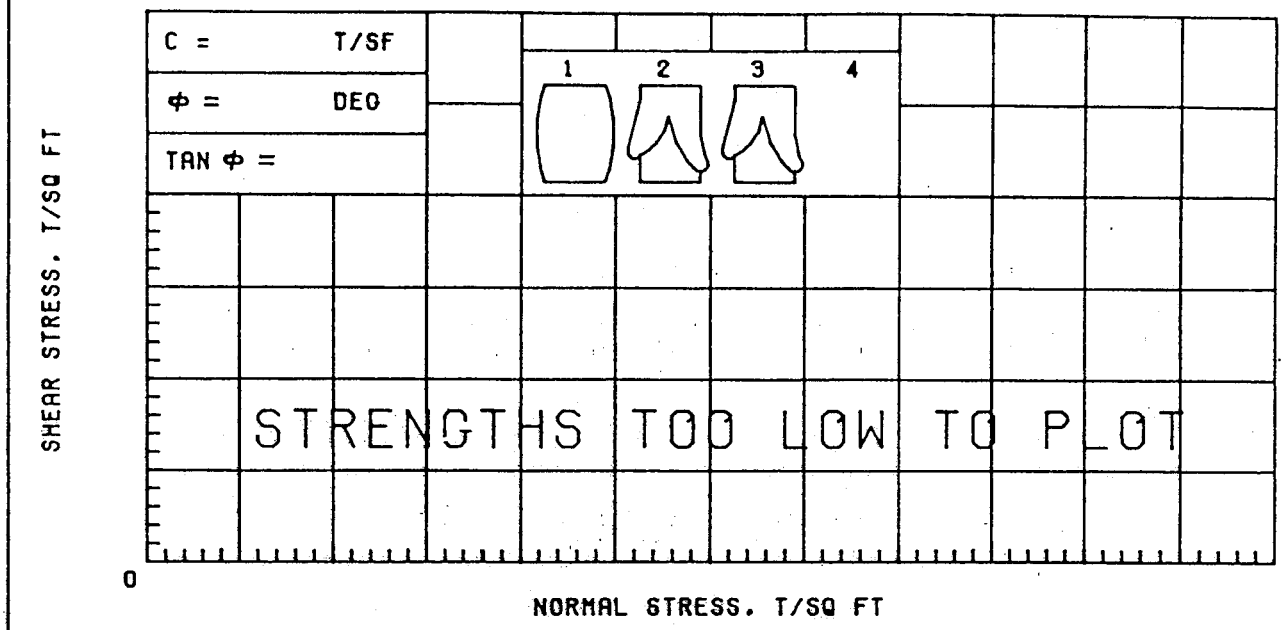
PROJECT LK. PONT. LA. & VIC. HURR. PROT.
ORLEANS PARISH OUTFALL CANALS

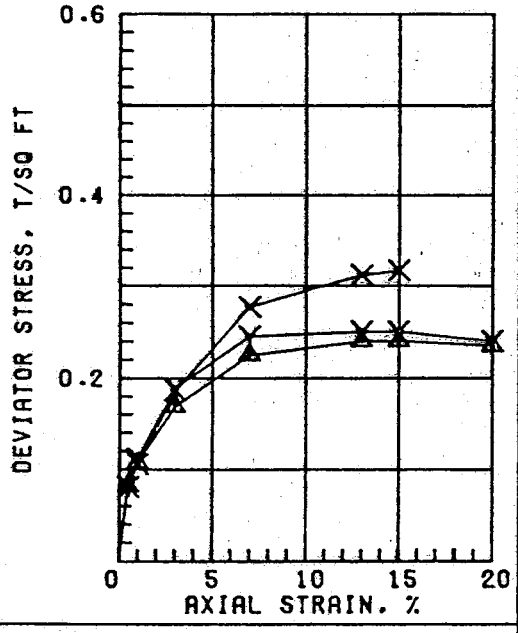
BORING NO. 1-LUG | SAMPLE NO. 5-C

DEPTH/ELEV 16.5/-7.1 | TECH. PJR

LABORATORY USAE WES | DATE 12 SEP 84

TRIAXIAL COMPRESSION TEST REPORT





SPECIMEN NO.		Δ1	Y2	X3	4
INITIAL	WATER CONTENT, %	41.2	40.1	38.4	
	DRY DENSITY, PCF	79.5	80.3	81.3	
	SATURATION, %	99.6	98.8	96.9	
	VOID RATIO	1.113	1.091	1.067	
BEFORE SHEAR	WATER CONTENT, %				
	DRY DENSITY, PCF				
	SATURATION, %				
	VOID RATIO				
	BACK PRESS., TSF				
MIN PRIN. STRESS, TSF		0.5	1.5	3.0	
MAX. DEV. STRESS, TSF		0.24	0.25	0.32	
TIME TO FAILURE, MIN.		26	26	35	
RATE OF STRAIN INCR.%					
INITIAL DIAMETER, IN.		1.39	1.39	1.39	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

DESCRIPTION OF SPECIMENS: SILTY CLAY (CL), DARK GRAY

LL 37	PL 23	PI 14	OS 2.69 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS:

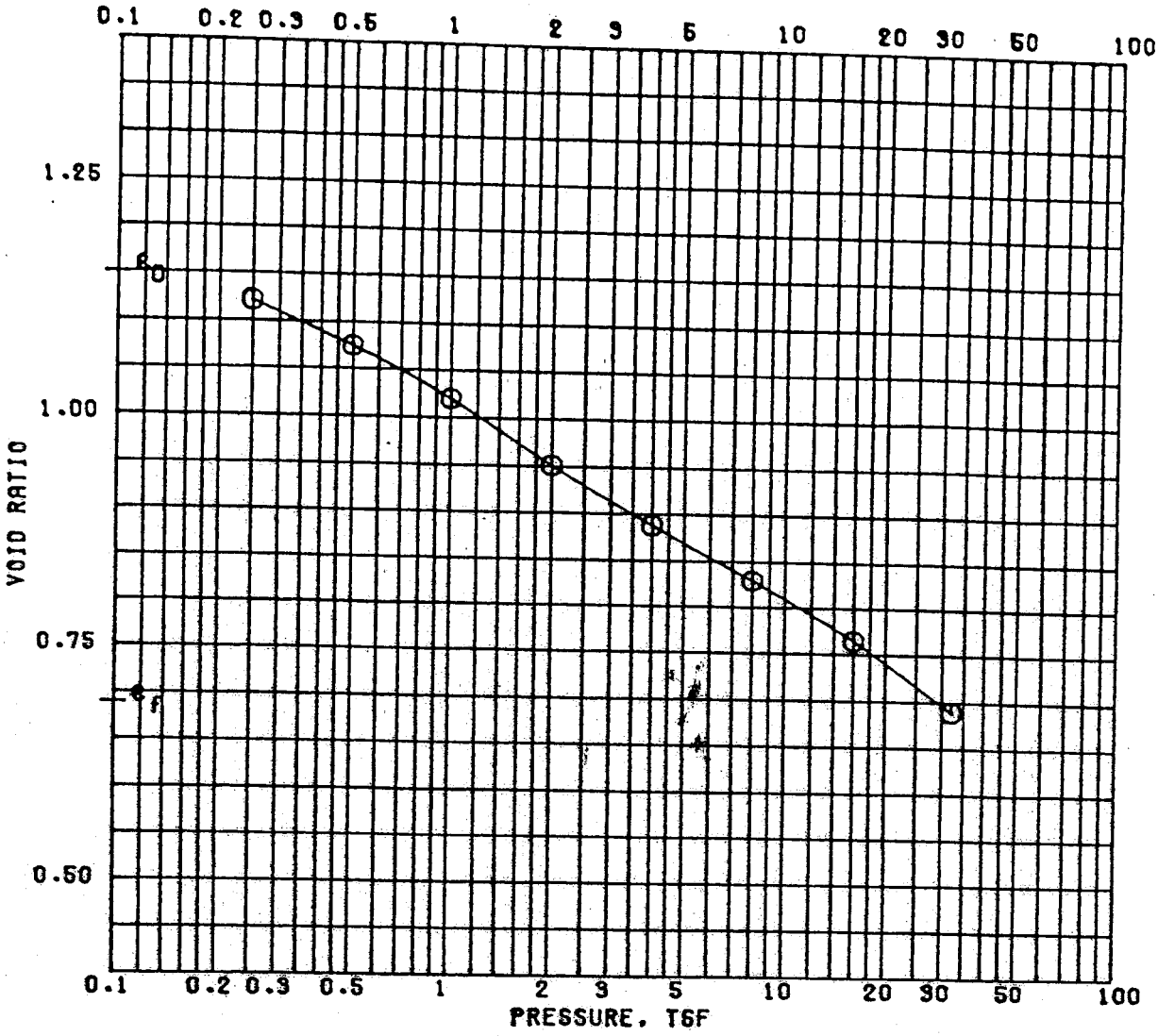
PROJECT LK. PONT. LA. & VIC. HURR. PROT.
ORLEANS PARISH OUTFALL CANALS

BORING NO. 1-LUG | SAMPLE NO. 6-B

DEPTH/ELEV 19.6/-10.2 | TECH. PJR

LABORATORY USAE WES | DATE 12 SEP 84

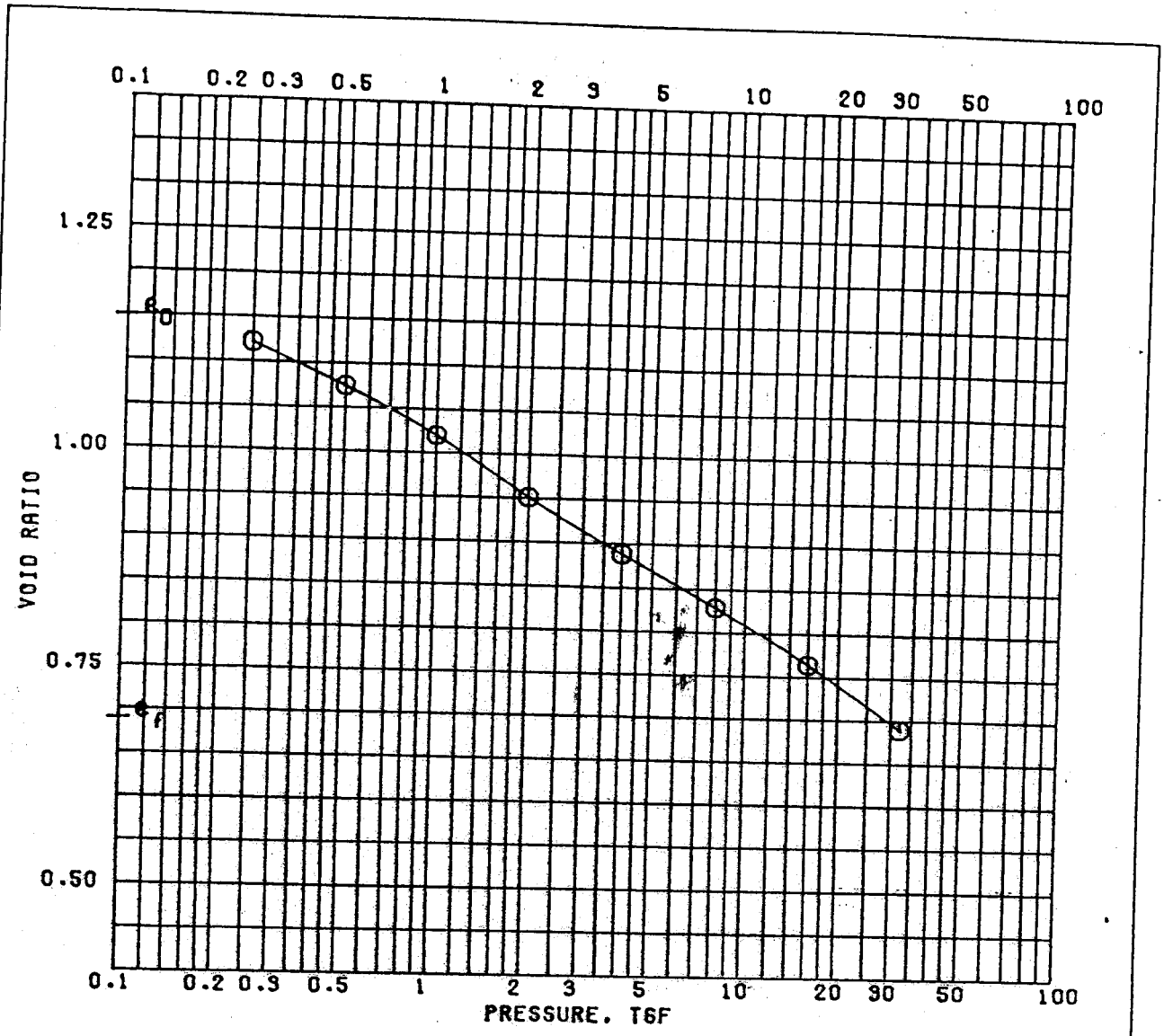
TRIAXIAL COMPRESSION TEST REPORT



			BEFORE TEST	AFTER TEST
OVERBURDEN PRESSURE, TSF		WATER CONTENT, %	38.3	24.8
PRECONSOL. PRESSURE, TSF		DRY DENSITY, PCF	78.5	99.9
COMPRESSION INDEX		SATURATION, %	90.0	97.4
TYPE SPECIMEN	UNDISTURBED	VOID RATIO	1.148	0.687
DIA. IN 4.44	HT. IN 1.160	BACK PRESSURE, TSF		
CLASSIFICATION	CLAY (CL), GRAY			
LL / PL / PI		PROJECT	LK. PONT. LA. & VIC. HURR. PROT.	
GS 2.70 (EST)	D_{10}		ORLEANS PARISH OUTFALL CANALS	
REMARKS		BORING NO. 1-LUO	SAMPLE NO. 6-C	
		DEPTH/ELEV 20.9/-11.5	DATE 23 AUG 84	

CONSOLIDATION TEST REPORT

SHEET 1 OF 10



		BEFORE TEST	AFTER TEST
OVERBURDEN PRESSURE, TSF		WATER CONTENT, %	38.3	24.8
PRECONSOL. PRESSURE, TSF		DRY DENSITY, PCF	78.5	99.9
COMPRESSION INDEX		SATURATION, %	90.0	97.4
TYPE SPECIMEN	UNDISTURBED	VOID RATIO	1.148	0.687
DIA. IN 4.44	HT. IN 1.160	BACK PRESSURE, TSF		

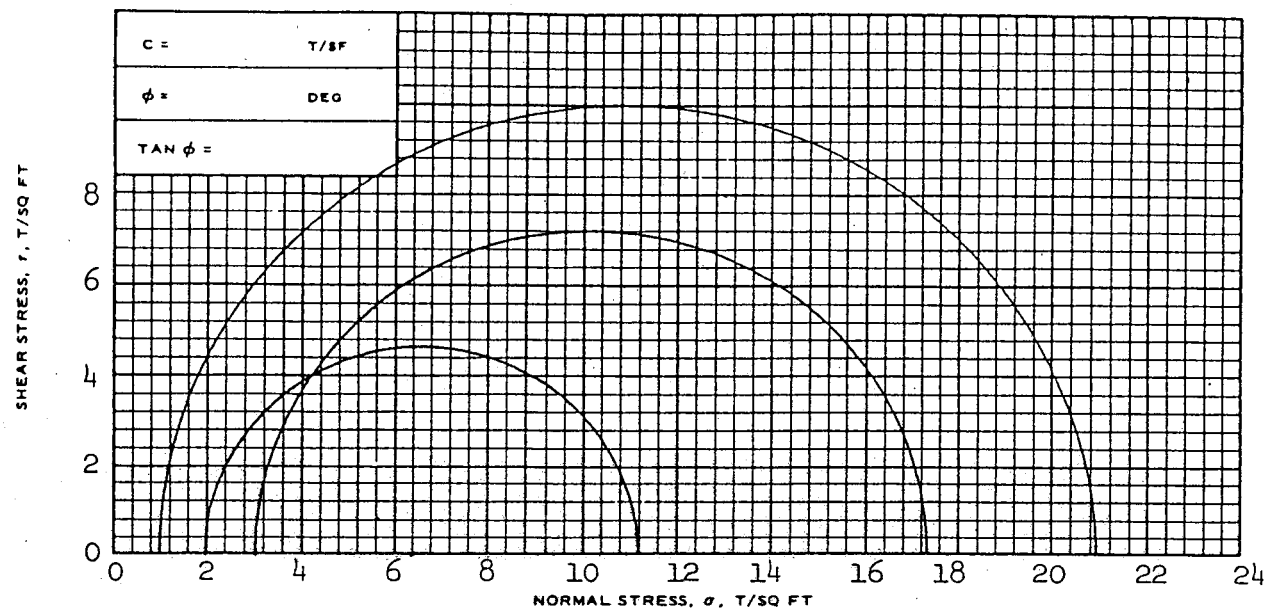
CLASSIFICATION CLAY (CL), GRAY

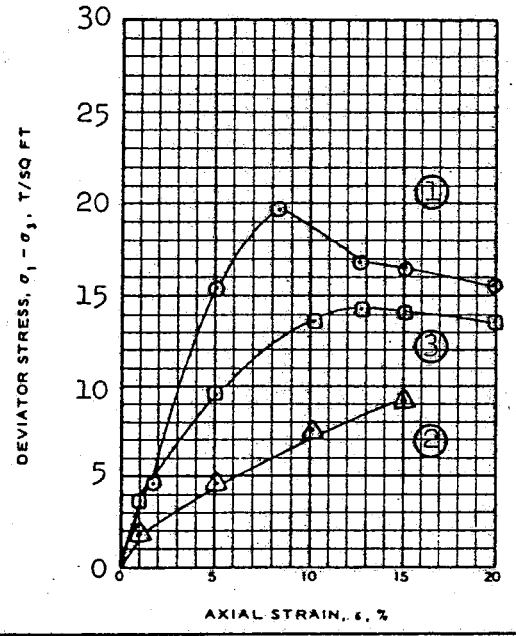
LL	PL	PI
GS 2.70 (EST)	D_{10}	

REMARKS

PROJECT LK. PONT. LA. & VIC. HURR. PROT.
ORLEANS PARISH OUTFALL CANALS
BORING NO. 1-LUO SAMPLE NO. 6-C
DEPTH/ELEV 20.9/-11.5 DATE 23 AUG 84

CONSOLIDATION TEST REPORT





SPECIMEN NO.			1	2	3
INITIAL	WATER CONTENT, %	w_o	22.0	23.4	21.8
	DRY DENSITY LB/ CU FT	γ_{d_o}	105.4	100.1	105.3
	SATURATION, %	S_o	100+	93.5	99.2
	VOID RATIO	e_o	0.587	0.671	0.589
BEFORE SHEAR	WATER CONTENT, %	w_c	24.0	23.9	23.4
	DRY DENSITY LB/CU FT	γ_{d_c}	107.0	103.6	108.5
	SATURATION, %	S_c	100+	100+	100+
	VOID RATIO	e_c	0.563	0.615	0.543
	FINAL BACK PRESSURE, T/SQ FT	u_o	4.32	4.32	4.32
MINOR PRINCIPAL STRESS, T/SQ FT		σ_3	1.0	2.0	3.0
MAXIMUM DEVIATOR STRESS, T/SQ FT		$(\sigma_1 - \sigma_3)_{MAX}$	19.86	9.19	14.29
TIME TO $(\sigma_1 - \sigma_3)_{MAX}$, MIN		t_f	646	1154	977
ULTIMATE DEVIATOR STRESS, T/SQ FT		$(\sigma_1 - \sigma_3)_{ULT}$			
INITIAL DIAMETER, IN.		D_o	1.37	1.38	1.40
INITIAL HEIGHT, IN.		H_o	3.00	3.00	3.00

CONTROLLED- STRAIN TEST

DESCRIPTION OF SPECIMENS SANDY SILT (ML), GRAY; SHELL PARTICLES

LL	PL	PI	G_s 2.68

REMARKS: (EST)

TYPE OF SPECIMEN UNDISTURBED TYPE OF TEST $\bar{R}$

PROJECT LK. PONT. LA. & VIC. HURR. PROT.
ORLEANS PARISH OUTFALL CANALS

BORING NO. 1-LUG SAMPLE NO. 7-B

DEPTH/ELEV 24.5/-15.1

LABORATORY USAEWES DATE 29 AUG 1984

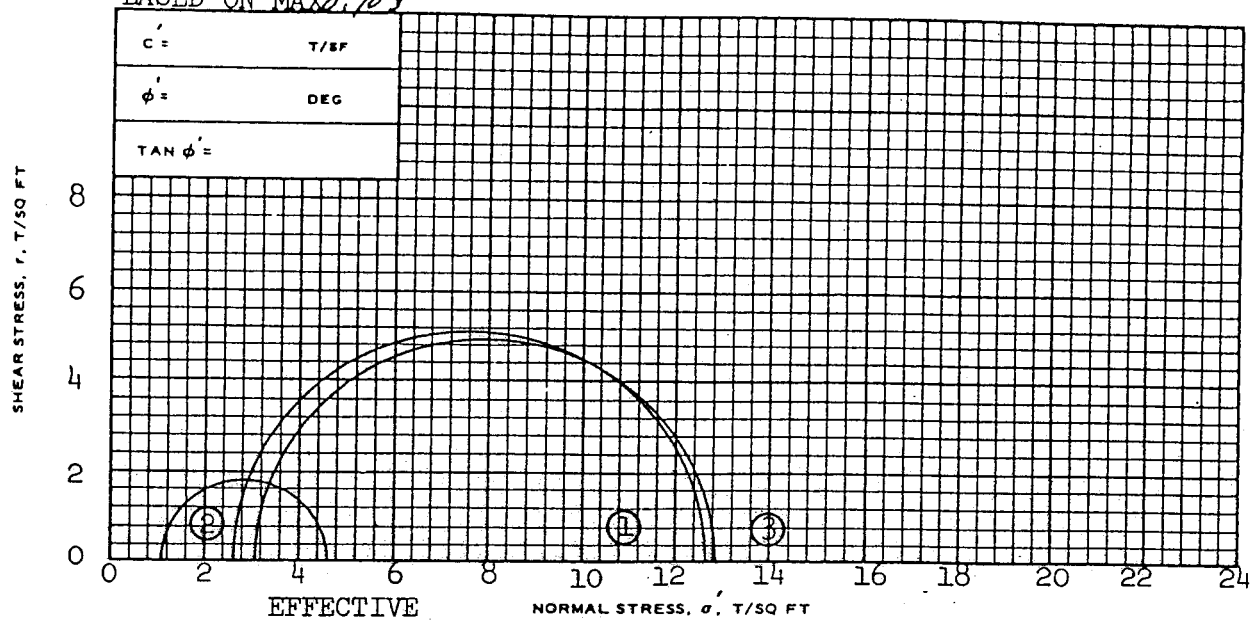
SHEET 1 OF 2

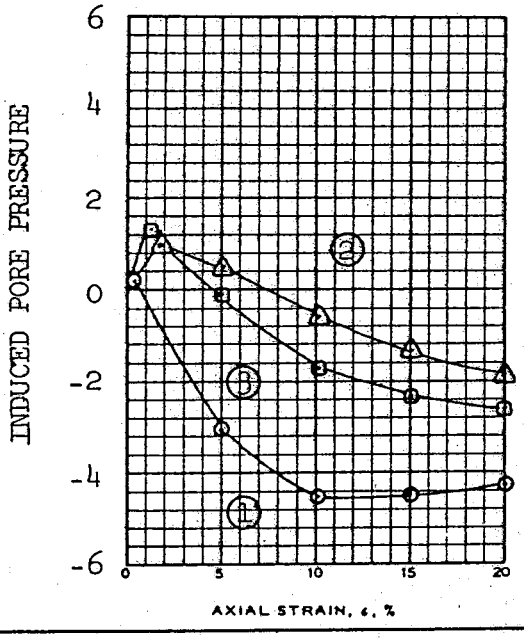
JMS TRIAXIAL COMPRESSION TEST REPORT

ENG FORM NO. 2089 REV JUNE 1970 PREVIOUS EDITION IS OBSOLETE

BASED ON MAX σ_1'/σ_3'

C' =	T/SF
ϕ' =	DEG
TAN ϕ' =	





SPECIMEN NO.			1	2	3	
INITIAL	WATER CONTENT, %	w_o				
	DRY DENSITY LB/ CU FT	γ_{d_o}				
	SATURATION, %	S_o				
	VOID RATIO	e_o				
BEFORE SHEAR	WATER CONTENT, %	w_c				
	DRY DENSITY LB/CU FT	γ_{d_c}				
	SATURATION, %	S_c				
	VOID RATIO	e_c				
	FINAL BACK PRESSURE, T/SQ FT	u_o				
MINOR PRINCIPAL STRESS, T/SQ FT		σ_3	2.62	1.09	3.06	
MAXIMUM DEVIATOR STRESS, T/SQ FT	$(\sigma_1 - \sigma_3)_{MAX}$		10.04	3.46	9.75	
TIME TO $(\sigma_1 - \sigma_3)_{MAX}$, MIN		t_f				
ULTIMATE DEVIATOR STRESS, T/SQ FT	$(\sigma_1 - \sigma_3)_{ULT}$					
INITIAL DIAMETER, IN.		D_o				
INITIAL HEIGHT, IN.		H_o				

CONTROLLED- TEST

DESCRIPTION OF SPECIMENS

LL	PL	PI	Gs

TYPE OF SPECIMEN | TYPE OF TEST

REMARKS:

PROJECT LK. PONT. LA. & VIC, HURR. PROT.
ORLEANS PARISH OUTFALL CANALS

BORING NO. 1-IUG | SAMPLE NO. 7-B

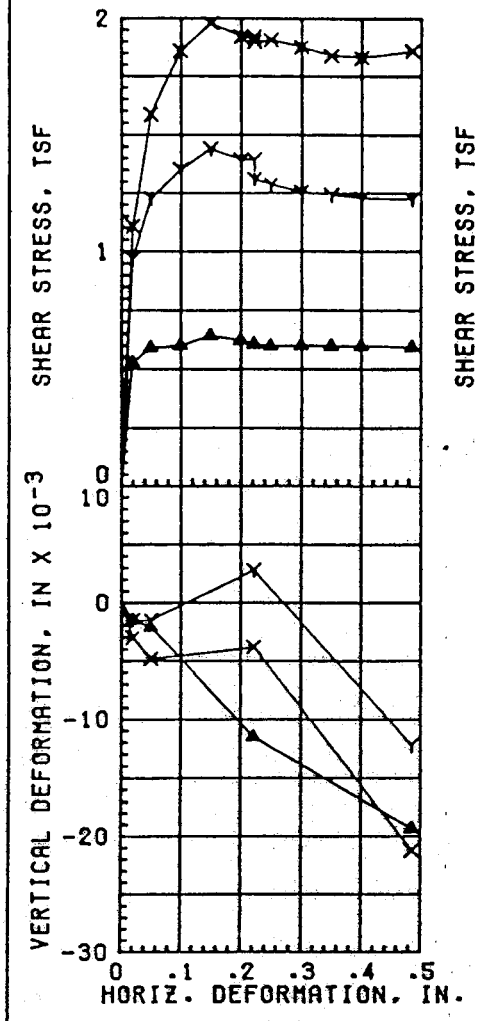
DEPTH/ELEV 24.5/-15.1

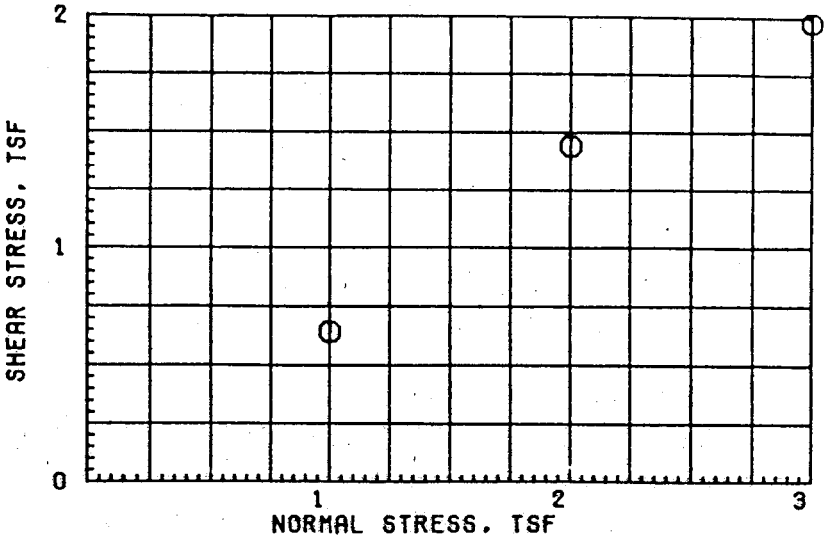
LABORATORY USAEWES | DATE 29 AUG 1984

SHEET 2 OF 2

JMS TRIAXIAL COMPRESSION TEST REPORT

ENG FORM NO. 2089 REV JUNE 1970 PREVIOUS EDITION IS OBSOLETE





ϕ = _____

TAN ϕ = _____

C = _____

	TEST NO.	1 ▲	2 Y	3 X	
INITAL	WATER CONTENT, %	24.3	22.5	23.6	
	VOID RATIO	0.656	0.691	0.707	
	SATURATION, %	98.7	87.0	89.1	
	DRY DENSITY, PCF	100.6	98.5	97.6	
VOID RATIO AFTER CONSOL					
FIFTY PERCENT CONSOL, MIN		< 1	< 1	< 1	
FINAL	WATER CONTENT, %	22.3	21.9	21.1	
	VOID RATIO				
	SATURATION, %				
NORMAL STRESS, TSF		1.0	2.0	3.0	
MAXIMUM SHEAR STRESS, TSF		0.64	1.44	1.98	
TIME TO FAILURE, MIN		853	853	853	
RATE OF STRAIN, IN/MIN		.00018	.00018	.00018	
ULTIMATE SHEAR STRESS, TSF					

TYPE SPECIMEN UNDISTURBED | 3.00 IN. SQUARE | 0.756 IN. THICK

CLASSIFICATION SANDY SILT (ML), GRAY; SHELL PARTICLES

LL	PL	PI		GS 2.67 (EST)

REMARKS:

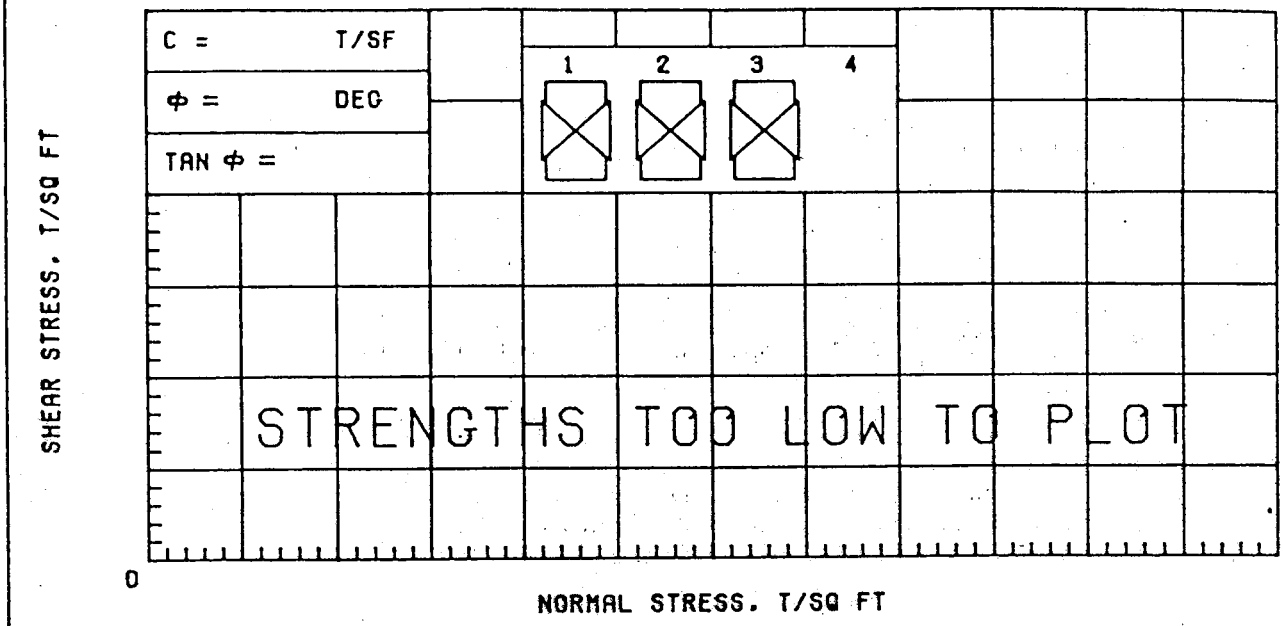
PROJECT LAKE PONT. LA. & VIC. HURR. PROT.

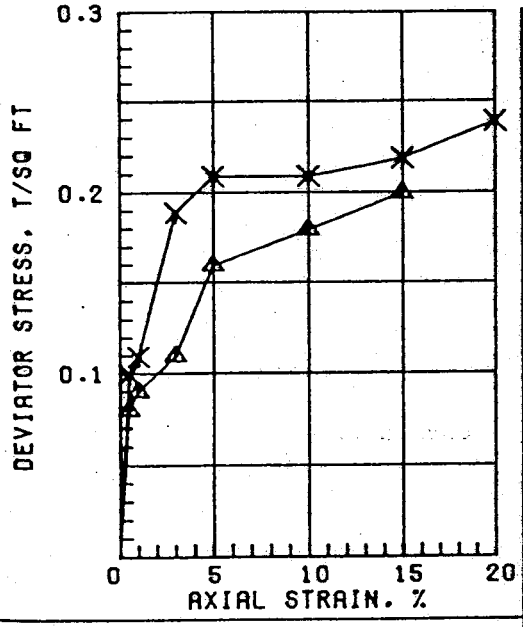
ORLEANS PARISH OUTFALL CANALS

BORING NO. 1-LUG | SAMPLE 8-B

DEPTH/ELEV 28.2/-18.8 | DATE 26 SEP 84

DIRECT SHEAR TEST REPORT





SPECIMEN NO.		Δ1	Y2	X3	4
INITIAL	WATER CONTENT, %	42.1	35.0	39.0	
	DRY DENSITY, PCF	77.0	83.1	79.7	
	SATURATION, %	95.6	91.8	94.4	
	VOID RATIO	1.189	1.029	1.115	
BEFORE SHEAR	WATER CONTENT, %				
	DRY DENSITY, PCF				
	SATURATION, %				
	VOID RATIO				
	BACK PRESS., TSF				
MIN PRIN. STRESS, TSF		0.5	1.5	3.0	
MAX. DEV. STRESS, TSF		0.20	0.21	0.21	
TIME TO FAILURE, MIN.		30	10	10	
RATE OF STRAIN INCR.%					
INITIAL DIAMETER, IN.		1.40	1.40	1.40	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

DESCRIPTION OF SPECIMENS: CLAY (CL), GRAY

LL 30	PL 14	PI 16	GS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS:

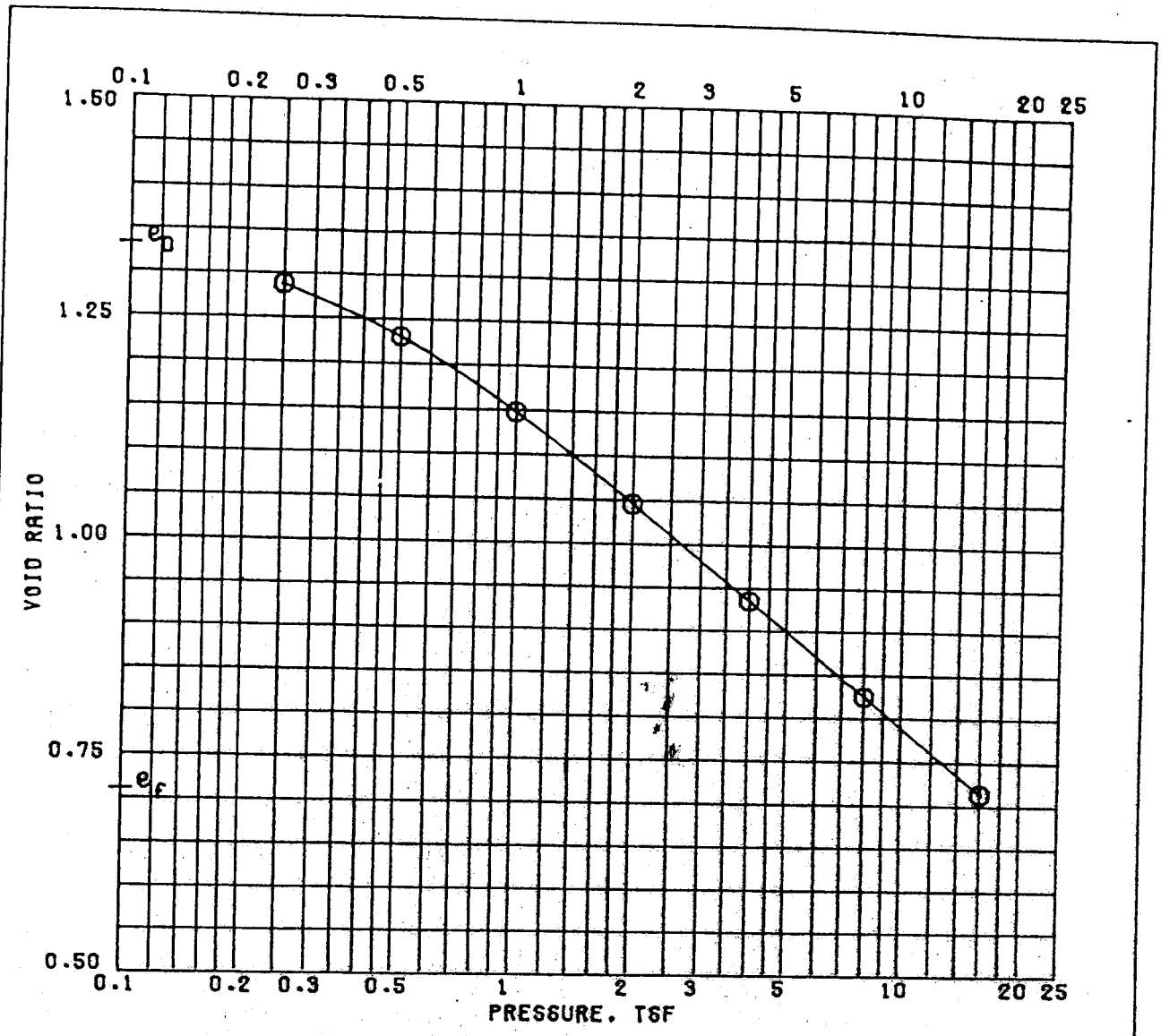
PROJECT LK. PONT. LA. & VIC. HURR. PROT.
ORLEANS PARISH OUTFALL CANALS

BORING NO. 1-LUG | SAMPLE NO. 8-C

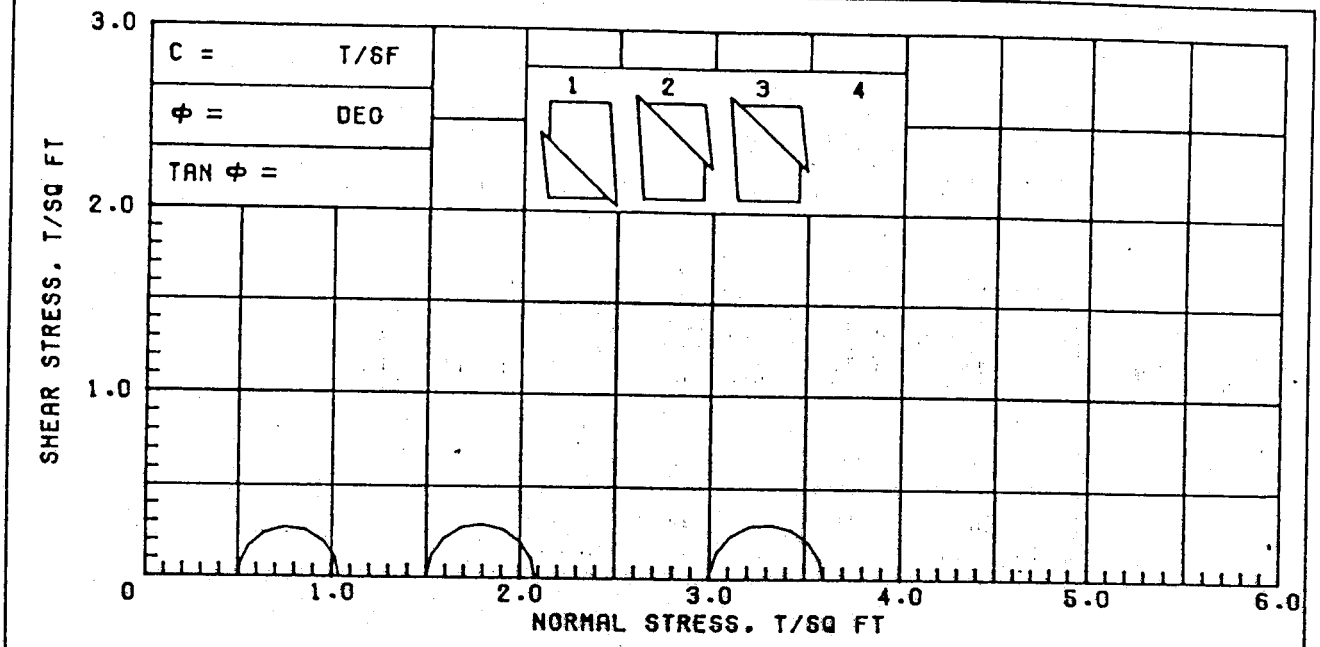
DEPTH/ELEV 29.3/-19.9 | TECH. KOC

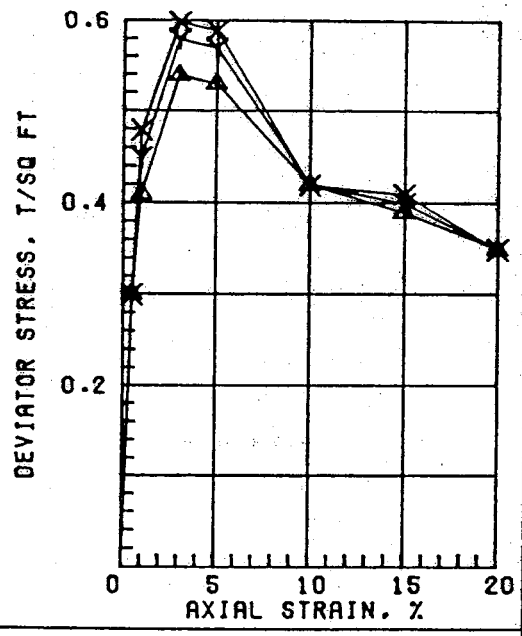
LABORATORY USAE WES | DATE 12 SEP 84

TRIAXIAL COMPRESSION TEST REPORT



			BEFORE TEST	AFTER TEST
OVERBURDEN PRESSURE, TSF		WATER CONTENT, %	45.9	28.4
PRECONSOL. PRESSURE, TSF		DRY DENSITY, PCF	72.3	98.6
COMPRESSION INDEX		SATURATION, %	93.1	100 +
TYPE SPECIMEN	UNDISTURBED	VOID RATIO	1.331	0.709
DIA. IN 4.44	HT. IN 1.138	BACK PRESSURE, TSF		
CLASSIFICATION	PLASTIC CLAY (CH), GRAY; FINE SAND POCKETS			
LL / PL / PI		PROJECT LK. PONT. LA. & VIC. HURR. PROT.		
GS 2.70 (EST)	D_{10}	ORLEANS PARISH OUTFALL CANALS		
REMARKS		BORING NO. 1-LUG	SAMPLE NO. 8-D	
		DEPTH/ELEV 30.0/-20.6	DATE 23 AUG 84	
		CONSOLIDATION TEST REPORT		





SPECIMEN NO.		Δ1	Y2	X3	4
INITIAL	WATER CONTENT, %	66.5	69.9	67.8	
	DRY DENSITY, PCF	59.8	60.0	59.7	
	SATURATION, %	98.6	100+	100+	
	VOID RATIO	1.821	1.811	1.825	
BEFORE SHEAR	WATER CONTENT, %				
	DRY DENSITY, PCF				
	SATURATION, %				
	VOID RATIO				
	BACK PRESS., TSF				
MIN PRIN. STRESS, TSF		0.5	1.5	3.0	
MAX. DEV. STRESS, TSF		0.54	0.58	0.60	
TIME TO FAILURE, MIN.		6	6	6	
RATE OF STRAIN INCR.%					
INITIAL DIAMETER, IN.		1.40	1.40	1.40	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

DESCRIPTION OF SPECIMENS: PLASTIC CLAY (CH), GRAY; SILT POCKETS

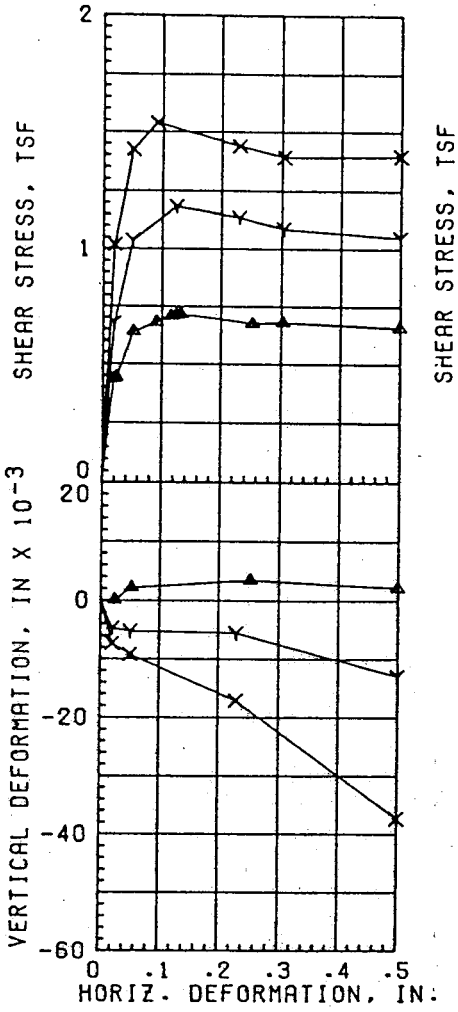
LL 85	PL 24	PI 61	GS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

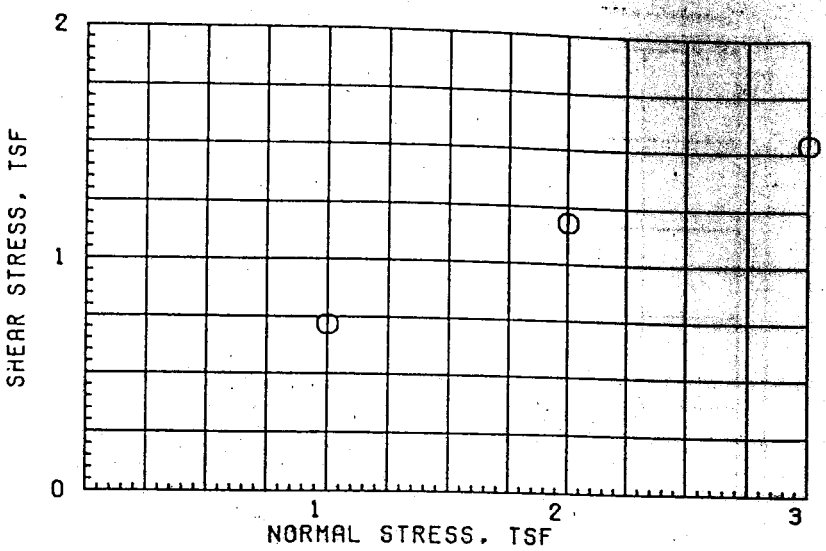
REMARKS:

PROJECT LK. PONT. LA. & VIC. HURR. PROT.
ORLEANS PARISH OUTFALL CANALS

BORING NO. 1-LUO — SAMPLE NO. 9-C
DEPTH/ELEV 33.1/-23.7 — TECH. KOC
LABORATORY USAE WES — DATE 12 SEP 84

TRIAXIAL COMPRESSION TEST REPORT





ϕ = _____

TAN ϕ = _____

C = _____

TEST NO.		1 △	2 Y	3 X	
INITAL	WATER CONTENT, %	22.5	24.4	25.0	
	VOID RATIO	0.686	0.746	0.782	
	SATURATION, %	87.7	87.2	85.2	
	DRY DENSITY, PCF	98.8	95.4	93.5	
VOID RATIO AFTER CONSOL					
FIFTY PERCENT CONSOL, MIN		< 1	< 1	< 1	
FINAL	WATER CONTENT, %	24.2	23.6	23.7	
	VOID RATIO				
	SATURATION, %				
NORMAL STRESS, TSF		1.0	2.0	3.0	
MAXIMUM SHEAR STRESS, TSF		0.72	1.18	1.54	
TIME TO FAILURE, MIN		736	690	508	
RATE OF STRAIN, IN/MIN		.00018	.00018	.00018	
ULTIMATE SHEAR STRESS, TSF					

TYPE SPECIMEN UNDISTURBED | 3.00 IN. SQUARE | 0.553 IN. THICK

CLASSIFICATION SILTY SAND (SM), GRAY; SHELL PARTICLES

LL | PL | PI: | | GS 2.67 (EST)

REMARKS:

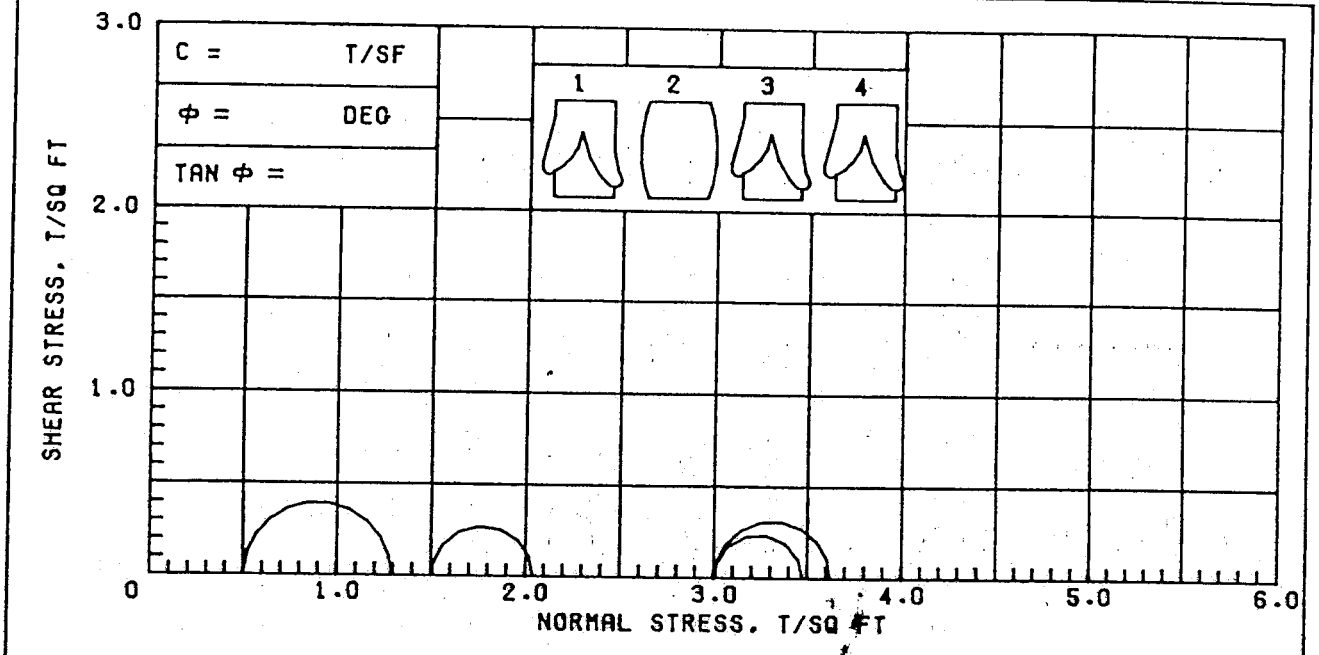
PROJECT LAKE PONT. LA. & VIC. HURR. PROT.

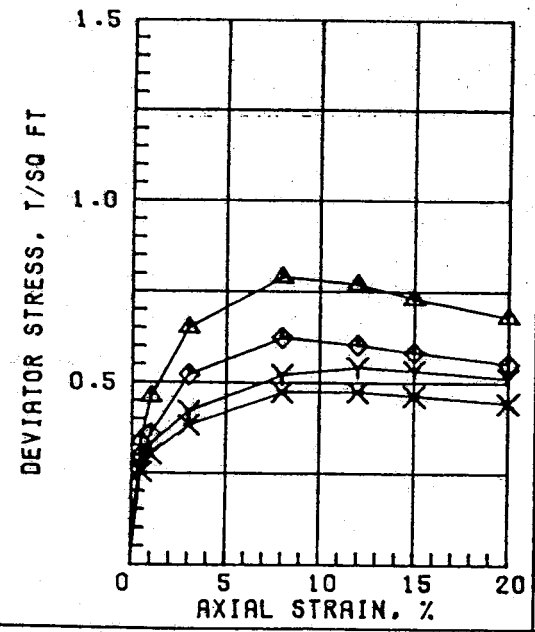
ORLEANS PARISH OUTFALL CANALS

BORING NO. 1-LUG | SAMPLE 10-B

DEPTH/ELEV 36.3/-26.9 | DATE 27 AUG 84

DIRECT SHEAR TEST REPORT





SPECIMEN NO.		△1	Y2	X3	◇4
INITIAL	WATER CONTENT, %	41.0	41.4	43.9	43.4
	DRY DENSITY, PCF	79.2	78.9	76.9	77.9
	SATURATION, %	98.1	98.3	99.4	100+
	VOID RATIO	1.129	1.137	1.192	1.165
BEFORE SHEAR	WATER CONTENT, %				
	DRY DENSITY, PCF				
	SATURATION, %				
	VOID RATIO				
	BACK PRESS., TSF				
MIN PRIN. STRESS, TSF		0.5	1.5	3.0	3.0
MAX. DEV. STRESS, TSF		0.79	0.54	0.47	0.62
TIME TO FAILURE, MIN.		15	36	22	36
RATE OF STRAIN INCR.%					
INITIAL DIAMETER, IN.		1.40	1.40	1.39	1.39
INITIAL HEIGHT, IN.		3.00	3.00	3.00	3.00

CONTROLLED-STRAIN TEST

DESCRIPTION OF SPECIMENS: CLAY (CL), GRAY; SHELL PARTICLES

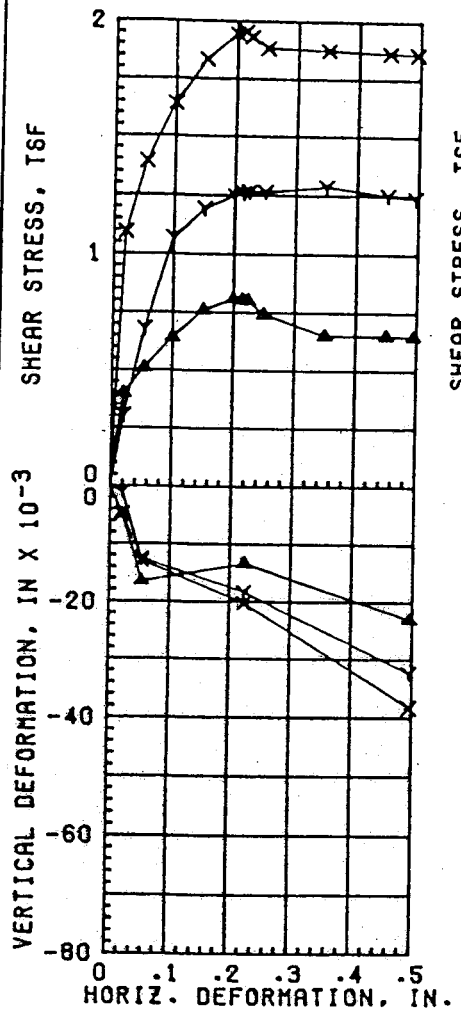
LL 34	PL 16	PI 18	OS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

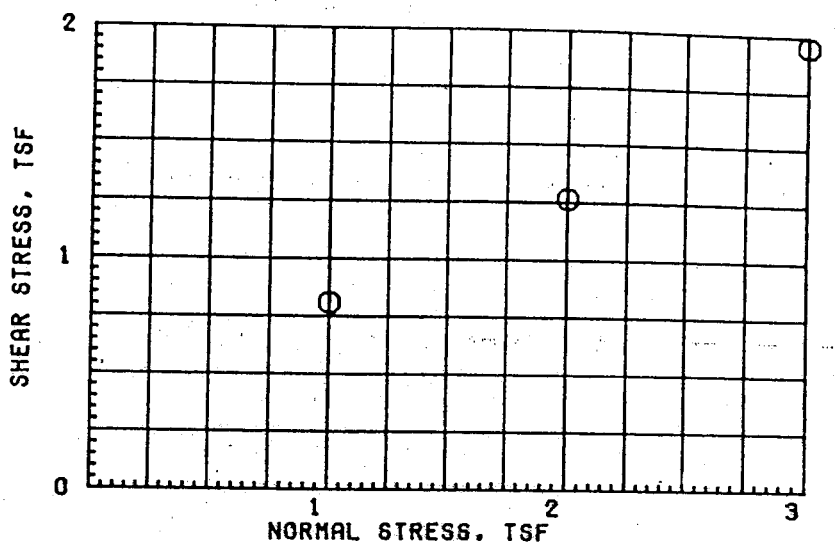
REMARKS:

PROJECT LK. PONT. LA. & VIC. HURR. PROT.
ORLEANS PARISH OUTFALL CANALS

BORING NO. 1-LUO | SAMPLE NO. 16-B
DEPTH/ELEV 60.0/-50.6 | TECH. PJR
LABORATORY USAE WES | DATE 13 SEP 84

TRIAXIAL COMPRESSION TEST REPORT





ϕ = _____

TAN ϕ = _____

C = _____

TEST NO.		1 ▲	2 Y	3 X	
INITAL	WATER CONTENT, %	25.9	25.8	24.8	
	VOID RATIO	0.717	0.745	0.730	
	SATURATION, %	96.7	92.6	90.8	
	DRY DENSITY, PCF	97.1	95.5	96.3	
VOID RATIO AFTER CONSOL					
FIFTY PERCENT CONSOL, MIN		< 1	< 1	< 1	
FINAL	WATER CONTENT, %	23.9	28.8	25.7	
	VOID RATIO				
	SATURATION, %				
NORMAL STRESS, TSF		1.0	2.0	3.0	
MAXIMUM SHEAR STRESS, TSF		0.81	1.26	1.95	
TIME TO FAILURE, MIN		1114	1248	1197	
RATE OF STRAIN, IN/MIN		.00018	.00018	.00018	
ULTIMATE SHEAR STRESS, TSF					

TYPE SPECIMEN UNDISTURBED | 3.00 IN. SQUARE | 0.756 IN. THICK

CLASSIFICATION SILTY SAND (SM), GRAY; SHELL PARTICLES

LL	PL	PI		GS 2.67 (EST)

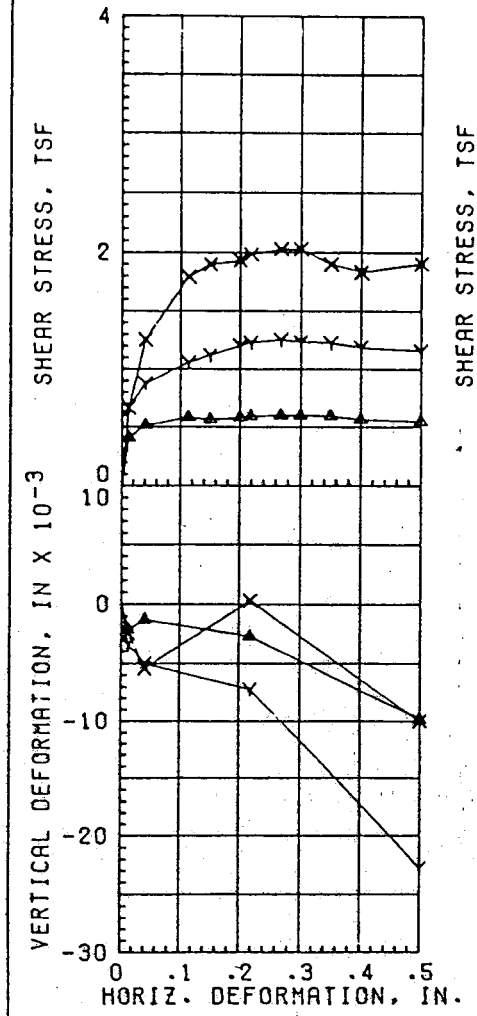
REMARKS:

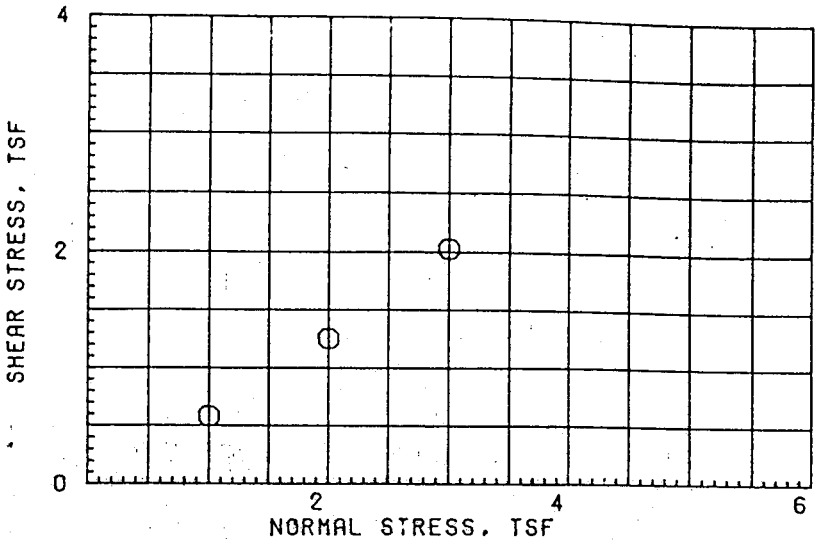
PROJECT LAKE PONT. LA. & VIC. HURR. PROT.
ORLEANS PARISH OUTFALL CANALS

BORING NO. 3-LUO | SAMPLE 3-B

DEPTH/ELEV 8.0/3.2 | DATE 25 SEP 84

DIRECT SHEAR TEST REPORT





ϕ = _____

TAN ϕ = _____

C = _____

TEST NO.		1 △	2 Y	3 X	
INITAL	WATER CONTENT, %	28.2	28.8	29.6	
	VOID RATIO	0.842	0.829	0.843	
	SATURATION, %	89.5	92.6	93.7	
	DRY DENSITY, PCF	90.5	91.1	90.4	
VOID RATIO AFTER CONSOL					
FIFTY PERCENT CONSOL, MIN		< 1	< 1	< 1	
FINAL	WATER CONTENT, %	32.4	31.5	31.0	
	VOID RATIO				
	SATURATION, %				
NORMAL STRESS, TSF		1.0	2.0	3.0	
MAXIMUM SHEAR STRESS, TSF		0.58	1.25	2.03	
TIME TO FAILURE, MIN		626	1469	1469	
RATE OF STRAIN, IN/MIN		.00018	.00018	.00018	
ULTIMATE SHEAR STRESS, TSF					

TYPE SPECIMEN UNDISTURBED | 3.00 IN. SQUARE | 0.756 IN. THICK

CLASSIFICATION SILTY SAND (SM), GRAY

LL | PL | PI | | GS 2.67 (EST)

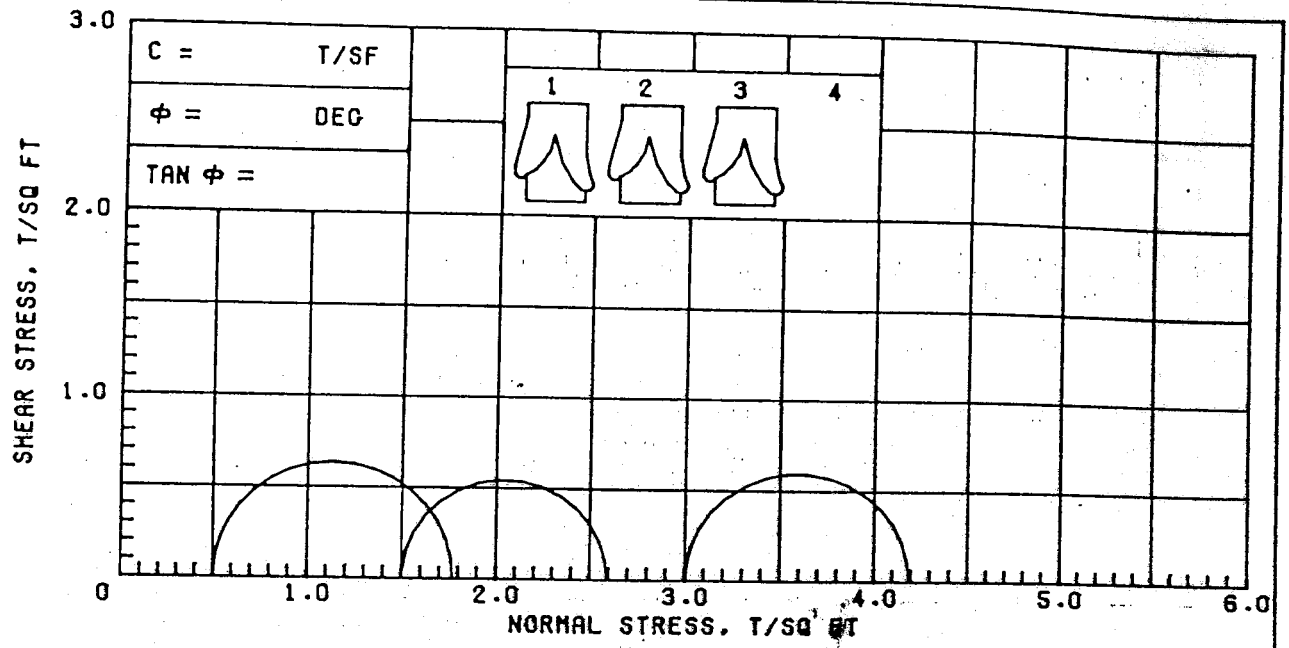
REMARKS;

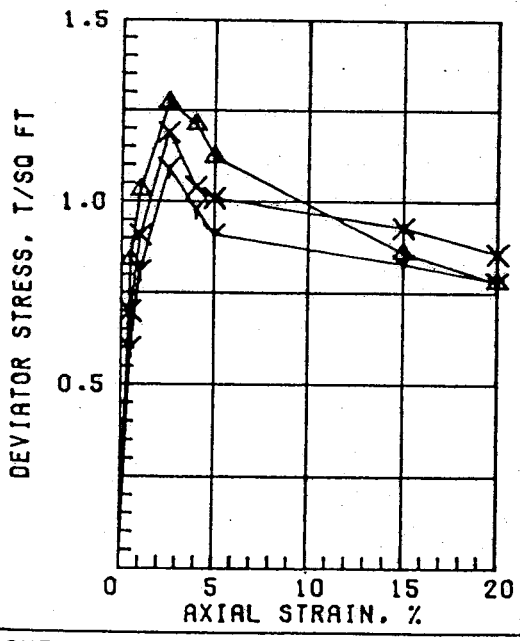
PROJECT LAKE PONT. LA. & VIC. HURR. PROT.
ORLEANS PARISH OUTFALL CANALS

BORING NO. 3-LUG | SAMPLE 12-B

DEPTH/ELEV 44.0/-39.2 | DATE 01 OCT 84

DIRECT SHEAR TEST REPORT





SPECIMEN NO.		△1	Y2	X3	4
INITIAL	WATER CONTENT, %	48.8	54.4	52.9	
	DRY DENSITY, PCF	71.9	67.7	68.7	
	SATURATION, %	98.1	98.6	98.3	
	VOID RATIO	1.343	1.490	1.454	
BEFORE SHEAR	WATER CONTENT, %				
	DRY DENSITY, PCF				
	SATURATION, %				
	VOID RATIO				
	BACK PRESS., TSF				
MIN PRIN. STRESS, TSF		0.5	1.5	3.0	
MAX. DEV. STRESS, TSF		1.27	1.09	1.19	
TIME TO FAILURE, MIN.		6	28	23	
RATE OF STRAIN INCR,%			5	5	
INITIAL DIAMETER, IN.		1.40	1.40	1.40	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

DESCRIPTION OF SPECIMENS: PLASTIC CLAY (CH), GRAY

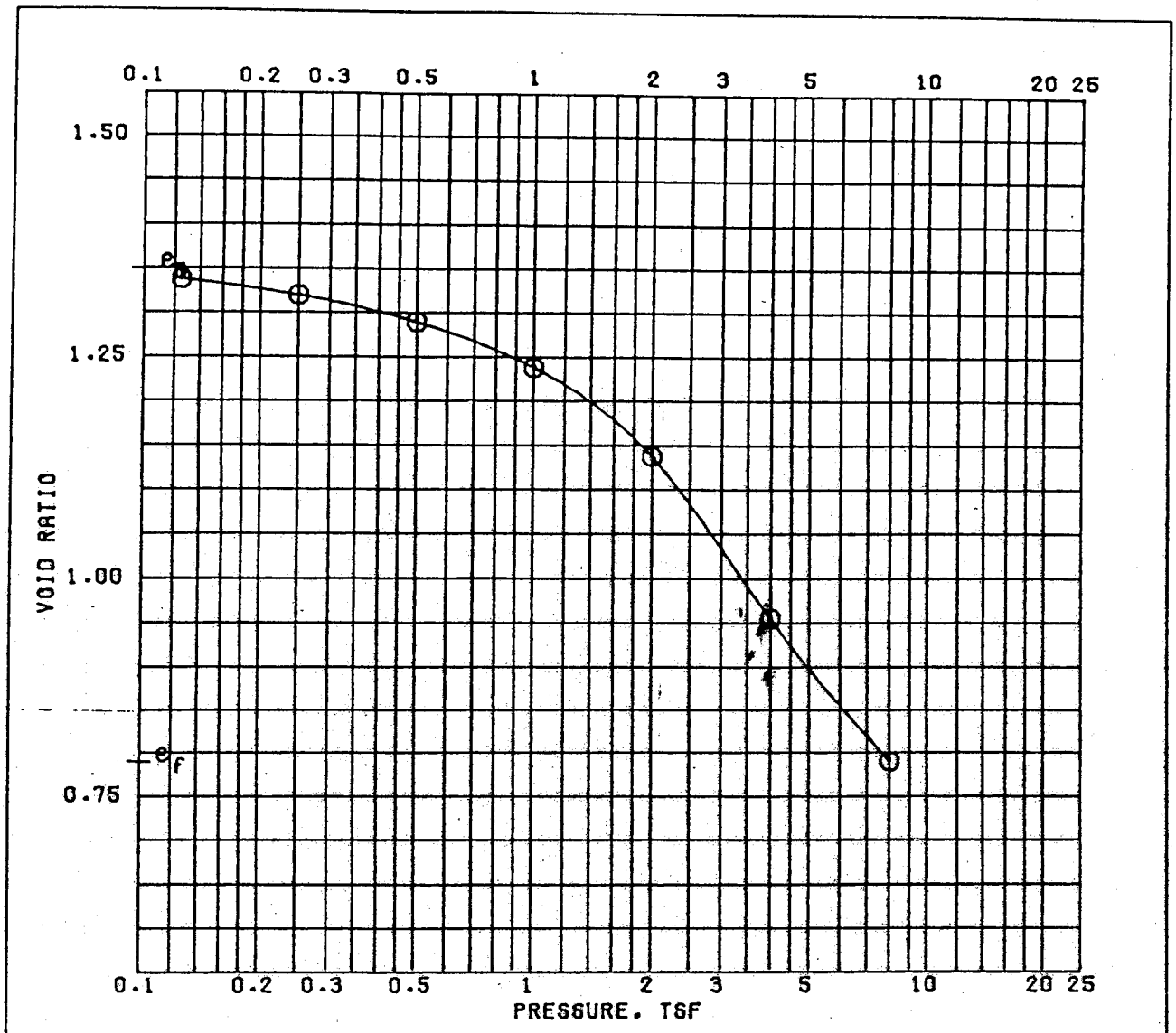
LL 63	PL 21	PI 42	OS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS:

PROJECT LK. PONT. LA. & VIC. HURR. PROT.
ORLEANS PARISH OUTFALL CANALS

BORING NO. 3-LUO	SAMPLE NO. 14-B
DEPTH/ELEV 52.0/-47.2	TECH. PJR
LABORATORY USAE WES	DATE 13 SEP 84

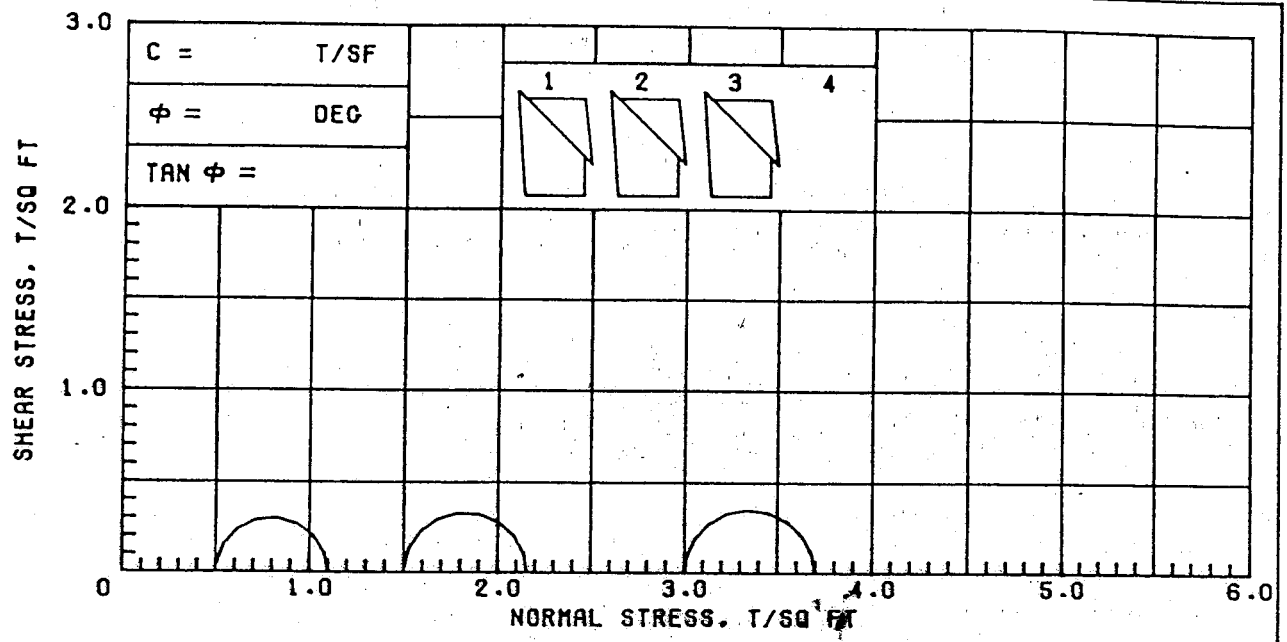
TRIAXIAL COMPRESSION TEST REPORT

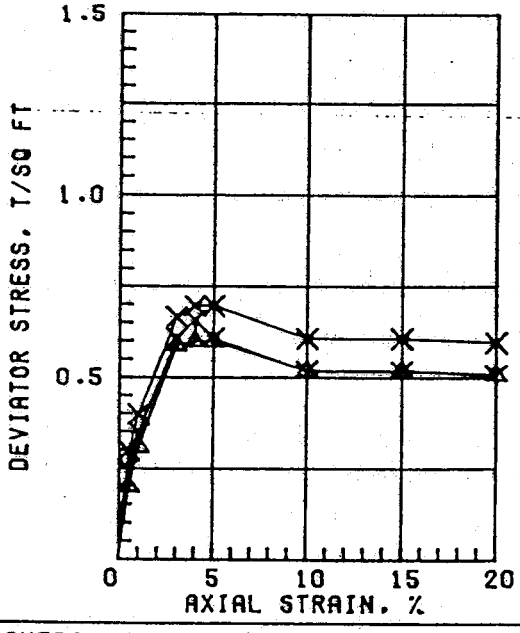


		BEFORE TEST	AFTER TEST
OVERBURDEN PRESSURE, TSF		WATER CONTENT, %	47.6	30.0
PRECONSOL. PRESSURE, TSF		DRY DENSITY, PCF	71.8	94.3
COMPRESSION INDEX		SATURATION, %	95.4	100 +
TYPE SPECIMEN	UNDISTURBED	VOID RATIO	1.348	0.788
DIA. IN 4.44	HT. IN 1.116	BACK PRESSURE, TSF		

CLASSIFICATION PLASTIC CLAY (CH), GRAY; FINE SAND POCKETS; SHELL PARTICLES

LL	PL	PI	PROJECT LK. PONT. LA. & VIC. HURR. PROT.
OS 2.70 (EST)	D_{10}		ORLEANS PARISH OUTFALL CANALS
REMARKS		BORING NO. 3-LUO	SAMPLE NO. 14-C
		DEPTH/ELEV 53.4/-48.6	DATE 25 SEP 84
		CONSOLIDATION TEST REPORT	





SPECIMEN NO.		△1	Y2	X3	4
INITIAL	WATER CONTENT, %	44.2	43.9	44.1	
	DRY DENSITY, PCF	75.2	75.9	76.1	
	SATURATION, %	96.0	97.2	98.0	
	VOID RATIO	1.243	1.220	1.215	
BEFORE SHEAR	WATER CONTENT, %				
	DRY DENSITY, PCF				
	SATURATION, %				
	VOID RATIO				
	BACK PRESS., TSF				
MIN PRIN. STRESS, TSF		0.5	1.5	3.0	
MAX. DEV. STRESS, TSF		0.60	0.66	0.70	
TIME TO FAILURE, MIN.		8	8	8	
RATE OF STRAIN INCR.%					
INITIAL DIAMETER, IN.		1.40	1.40	1.40	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

DESCRIPTION OF SPECIMENS: PLASTIC CLAY (CH), GRAY; SHELL PARTICLES

LL 56	PL 20	PI 36	GS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS:

PROJECT LK. PONT. LA. & VIC. HURR. PROT.

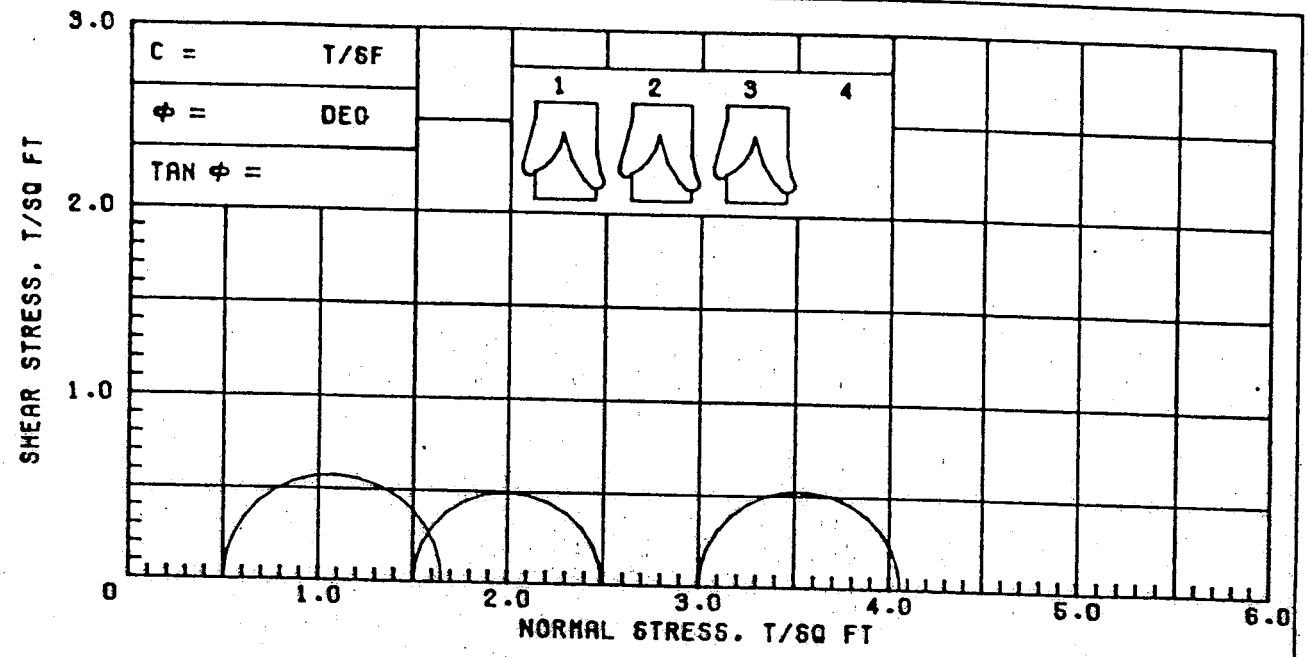
ORLEANS PARISH OUTFALL CANALS

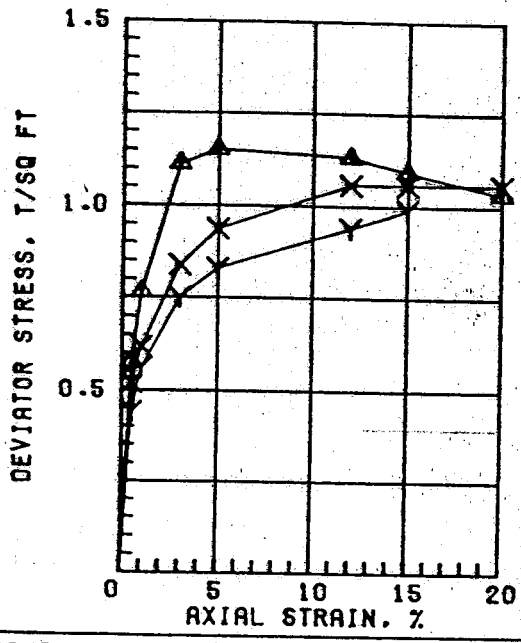
BORING NO. 3-LUO | SAMPLE NO. 15-B

DEPTH/ELEV 56.2/-51.4 | TECH. KOC

LABORATORY USAE WES | DATE 13 SEP 84

TRIAXIAL COMPRESSION TEST REPORT





SPECIMEN NO.		△1	Y2	X3	4
INITIAL	WATER CONTENT, %	40.1	45.2	43.9	
	DRY DENSITY, PCF	80.0	76.2	77.2	
	SATURATION, %	97.7	100+	100+	
	VOID RATIO	1.108	1.212	1.184	
BEFORE SHEAR	WATER CONTENT, %				
	DRY DENSITY, PCF				
	SATURATION, %				
	VOID RATIO				
	BACK PRESS., TSF				
MIN PRIN. STRESS, TSF		0.5	1.5	3.0	
MAX. DEV. STRESS, TSF		1.15	0.99	1.06	
TIME TO FAILURE, MIN.		10	55	39	
RATE OF STRAIN INCR,%					
INITIAL DIAMETER, IN.		1.40	1.40	1.40	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

DESCRIPTION OF SPECIMENS: PLASTIC CLAY (CH), LIGHT GRAY; CONCRETIONS

LL 93	PL 30	PI 63	GS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS:

PROJECT LK. PONT. LA. & VIC. HURR. PROT.
ORLEANS PARISH OUTFALL CANALS

BORING NO. 3-LUG | SAMPLE NO. 16-B
DEPTH/ELEV 60.3/-55.5 | TECH. PJR
LABORATORY USAE WES | DATE 14 SEP 84

TRIAXIAL COMPRESSION TEST REPORT