

Soil Boring Log

Boring/Well No.: GC-1

Project Name: George County Lakes

Date: 6-23-2014

Drilling Company: Walker-Hill, Inc.

Drilling Rig Type: Geoprobe/Direct Push

Geologist/Logger: Sid Thompson, RPG

Location: George County, Mississippi

Depth		Soil Strata
From	To	Soil Descriptions and Remarks
0	2	Sand: Red, med- coarse grain
2	4	Sand: Yellowish-tan fine grain, silty
4	5	Sand: Yellow-tan mottled, clayey at bottom
5	8	Clay: tan-yellow mottled, firm, grey at bottom
8	12	Clay: grey, some orange mottles, firm
12	16	Clay: grey, very dense
16	20	Clay: grey, very dense
20	21	Clay: grey, very dense, some orange mottles
21	24	Clay: blue grey, very hard and dry
24	26	Clay: blue grey, very hard and dry
		Geoprobe refusal

Soil Boring Log

Boring/Well No.: GC-2

Project Name: George County Lakes

Date: 6-23-2014

Drilling Company: Walker-Hill, Inc.

Drilling Rig Type: Geoprobe/Direct Push

Geologist/Logger: Sid Thompson, RPG

Location: George County, Mississippi

Depth		Soil Strata
From	To	Soil Descriptions and Remarks
0	1	Silt: brown, with fine sand
1	4	Sand: reddish-brown, silty, med grained, firm
4	8	Sand: reddish-brown, silty, med grained, firm
8	12	Sand: reddish-brown, silty, med grained, firm
12	16	Sand: alternating, red, tan-cream, white, loose, fine grained, (laminated layering every 1/8")
16	20	Sand: alternating, red, tan-cream, white, loose, fine grained, (laminated layering every 1/8")
20	24	Sand: white, fine grained (a few pink layers from 22-24')
24	28	Sand: white, fine grained
28	30	Sand: white, fine grained
30	32	Sand: red, yellow, orange, white (multicolored every 1/8"), fine grained, wet
32	34	Sand: pink-tan, fine grained, wet
34	35	Sand: yellow
35	36	Sand: tan-pink, some yellow layers
36	41	Sand: yellow-tan-pink, alternating layers, some pink clay at 38'
41	44	Clay: pink and white at 41', thin tan and yellow alternating
44	46	Clay: tan-yellow, some purple, sandy in places
46	48	Sand: orange and yellow, some clay layered
48	52	Sand: orange and yellow, clayey throughout
52	53	Clay: purple and white
53	56	Sand: tan-white-pink, silty, clayey

wet



Soil Boring Log

Boring/Well No.: GC-3

Project Name: George County Lakes

Date: 6-26-2014

Drilling Company: Walker-Hill, Inc.

Drilling Rig Type: Geoprobe/Direct Push

Geologist/Logger: Sid Thompson, RPG

Location: George County, Mississippi

Depth		Soil Strata
From	To	Soil Descriptions and Remarks
0	1	Grass/ topsoil
1	2	Sand: brown, silty, fine grained, becoming more red at bottom
2	4	Sand: reddish-brown, fine grained, becoming orange-red at bottom
4	8	Sand: light reddish-tan, fine grained
8	11.5	Sand: light reddish-tan, fine grained
11.5	12	Sand: yellowish-grey
12	12.5	Sand: yellowish-grey
12.5	13.5	Clay: purple and yellow mottled, moist, very dense, malleable brown inclusions at bottom
13.5	16	Clay: orange and grey mottled, very firm, malleable, moist
16	19	Clay: yellowish-grey with orange mottles, dense, malleable, less orange at bottom
19	20	Clay: grey, dense, malleable, black specks
20	24	Clay: greyish tan, very firm, malleable, dense, moist
24	26.5	Clay: light tan, malleable, moist
26.5	28	Clay: blue-grey, very dense, firm
28	32	Clay: blue-grey, very dense, firm
		-----stuck in barrel/ can't penetrate---- no water/no well-----

Soil Boring Log

Boring/Well No.: GC-4 Project Name: George County Lakes Date: 6-25-2014

Drilling Company: Walker-Hill, Inc. Drilling Rig Type: Geoprobe/Direct Push

Geologist/Logger: Sid Thompson, RPG Location: George County, Mississippi

Depth		Soil Strata
From	To	Soil Descriptions and Remarks
0	1	Grass/ topsoil
3	4	Sand: brown fine, fine grained
4	8	Clay: grey, mottled with red and yellow, silty, firm
8	10	Silt: tan, red mottles, clayey, some sand
10	12	Sand: yellowish orange, red mottles, very fine grained, moist
12	15	Sand: yellowish orange, red with some grey mottles
15	16	Clay: grey and orange laminated every ¼-1/2" , very dense and sticky
16	20	Clay: blue-grey, very dense and firm
20	22	Sand: tan, few orange mottles, silty, very fine sand
22	22.5	Clay: blue-grey, very dense and firm
22.5	23	Clay: tan with interbedded orange sand and orange clay
23	24	Clay: blue-grey, very dense and firm
24	28	Clay: blue-grey, very dense and firm (~2" of grey silty sand at 23')
28	32	Clay: blue-grey, very dense, firm
		Geoprobe refusal: could not get clay out of barrel; no water

Soil Boring Log

Boring/Well No.: GC-5 Project Name: George County Lakes Date: 6-25-2014

Drilling Company: Walker-Hill, Inc. Drilling Rig Type: Geoprobe/Direct Push

Geologist/Logger: Sid Thompson, RPG Location: George County, Mississippi

Depth		Soil Strata
From	To	Soil Descriptions and Remarks
0	1	Grass/ topsoil
1	4	Sand: brown to tan, with orange mottles
4	5	Sand: tan with orange mottles
5	7	Sand: tan with few orange and red mottles, moist
7	8	Sand: tan, wet
8	12	Clay: orange with grey mottles, more silty at top, moist
12	15	Clay: orange with grey mottles
15	16	Clay: grey with orange mottles, some intervals of grey
16	20	Clay: blue-grey, very dense hard (top 6"=moist)

Soil Boring Log

Boring/Well No.: GC-6 Project Name: George County Lakes Date: 6-25-2014

Drilling Company: Walker-Hill, Inc. Drilling Rig Type: Geoprobe/Direct Push

Geologist/Logger: Sid Thompson, RPG Location: George County, Mississippi

Depth		Soil Strata
From	To	Soil Descriptions and Remarks
0	1	Grass/ topsoil
1	4	Silt: orange-brown with red mottles
4	6	Clay: orange with grey mottles, slightly silty
6	8	Clay: grey with orange mottles
8	12	Clay: tan, dense, moist
12	14	Clay: tan, orange mottles (fewer)
14	16	Clay: blue-grey, very dense, hard, sticky
16	20	Clay: blue-grey very dense, stuck in barrel
20	24	No samples----- can't penetrate with Geoprobe barrel

Soil Boring Log

Boring/Well No.: GC-7

Project Name: George County Lakes

Date: 6-24-2014

Drilling Company: Walker-Hill, Inc.

Drilling Rig Type: Geoprobe/Direct Push

Geologist/Logger: Sid Thompson, RPG

Location: George County, Mississippi

Depth		Soil Strata
From	To	Soil Descriptions and Remarks
0	1	Grass/top soil
1	4	Sand: red, silty, med grained (loose sand)
4	8	Sand: red, silty, med grained (loose sand)
8	12	Sand: orange-red, silty, (very loose sand)
12	16	Sand: orange-red, silty, (very loose sand)
16	20	Sand: orange-red, silty, (very loose sand)
20	24	Sand: red, yellowish-tan (very loose sand)
24	28	Sand: top 6" is red, then yellowish-tan, pinkish at bottom, loose sand at top to very loose at bottom
28	32	Sand: red, except 3" section (at 31') golden brown sand
32	34	Sand: red, except 2" of red clay at 32'
34	36	Sand: greyish-cream, mottled with yellowish-orange sand, moist
36	38	Sand: greyish-cream, mottled with yellowish-orange slightly silty, wet
38	40	Sand: red alternating with greyish-cream and yellow-orange, slightly silty, wet
40	44	Sand: red alternating with greyish-cream and yellow-orange, slightly silty, wet
44	48	Sand: red alternating with greyish-cream and yellow-orange, slightly silty, wet
48	52	Sand: red alternating with greyish-cream and yellow-orange, slightly silty, wet
52	56	Sand: red alternating with greyish-cream and yellow-orange, slightly silty, wet
		Set well at 56 feet; screened from 36 to 56 feet

Water



Soil Boring Log

Boring/Well No.: GC-8

Project Name: George County Lakes

Date: 6-24-2014

Depth		Soil Strata
From	To	Soil Descriptions and Remarks
0	1	Grass/ topsoil
1	4	Sand: tan, fine grained (very loose sand)
4	6	Sand: tan, fine grained (very loose sand)
6	8	Sand: orange to tan, (very loose), wet
8	12	Sand: orange to tan, (some gravel at 11'), wet
12	16	Sand: tan, some orange, sandy silt interval at ~ 13', wet
16	20	Sample consisted of heaving sand from below
20	24	Sand: tan
24	28	Set well at 28 feet; screened from 8 to 28 feet

Soil Boring Log

Boring/Well No.: GC-9

Project Name: George County Lakes

Date: 6-24-2014

Drilling Company: Walker-Hill, Inc.

Drilling Rig Type: Geoprobe/Direct Push

Geologist/Logger: Sid Thompson, RPG

Location: George County, Mississippi

Depth		Soil Strata
From	To	Soil Descriptions and Remarks
0	1	Grass/ topsoil
1	4	Sand: red, silty, firm
4	8	Sand: red, silty, firm
8	12	Sand: red, silty, firm
12	15	Sand: red, silty, firm, finer grained, some tan inclusions
15	16	Sand: light tan, some red sand, very loose
16	17	Sand: red with brown and tan laminations/layers, loose
17	20	Sand: light tan, some red sand at top
20	21	Sand: light tan, very loose sand
21	24	Sand: mostly red, some tan, pink, purple, very loose sand
24	28	Sand: alternating red and tan (~1/4" layers), very loose
28	32	Sand: alternating red and tan (1"-2" layers near bottom)
32	34	Sand: tan and red with very coarse grained, mixed in some pebbles
34	36	Sand: red and tan, med- fine grained
36	40	Sand: light tan, very fine, loose sand
40	44	Sand: light tan, very fine, loose sand
44	46	Sand: light tan, very fine, loose sand, some (3") of coarse sand at top
46	48	Sand: red with tan and yellow mottles, moist
48	52	Sand: tan with red and pink mottles, fine grained, loose sand
52	53	Sand: pink, slight mottles of yellow
53	54	Clay: pinkish-tan (flesh colored), silty, mottled with purple and rust at 54'
54	56	Sand: yellowish-tan to 55', then reddish-tan to 56', mottles
56	58	Sand: pink with tan, red, and yellow mottles, fine grained, loose sand
58	60	Sand: yellowish-tan, some red mottles, fine grained, loose sand, moist
60	61	Sand: yellowish-tan, fine grained
61	62.5	Sand: tan with red and yellow mottles
62.5	63	Clay: pink and purple mottled, silty
63	64	Sand: purple with tan and yellowish-orange mottles in lower part, moist
64	68	Sand: pink, purple and yellowish-orange mottles in lower part, wet
		-----Heaving sand-----
		Pushed and set well at 79 feet; screened from 39 to 79 feet

Water

Soil Boring Log

Boring/Well No.: GC-10

Project Name: George County Lakes

Date: 6-25-2014

Depth		Soil Strata
From	To	Soil Descriptions and Remarks
0	2	Grass/ topsoil
2	3.5	Clay: brown, silty
3.5	4	Sand: grey with orange mottles
4	8	Sand: red, few orange and yellow mottles, wet
8	12	Sand: red, few orange and yellow mottles, wet
12	16	No sample ---- heaving sand-----
		Pushed and set well to 37 feet; screened from 17 to 37 feet

Water
@ 6'

Soil Boring Log

Boring/Well No.: GC-11 Project Name: George County Lakes Date: 6-25-2014

Drilling Company: Walker-Hill, Inc. Drilling Rig Type: Geoprobe/Direct Push

Geologist/Logger: Sid Thompson, RPG Location: George County, Mississippi

Depth		Soil Strata
From	To	Soil Descriptions and Remarks
0	1	Grass/ topsoil
1	3	Sand: brown with grey mottles, silty
3	4	Clay: grey with orange-red mottles, silty
4	8	Clay: grey with orange-red mottles, no silt, more red at top, orange at bottom
8	12	Clay: grey with orange mottles
12	16	Clay: grey with orange mottles- fewer orange mottles
16	17	Sand: grey
17	17.5	Clay: grey, only ~4"
17.5	20	Sand: orange, with grey mottles to 18.5', 1" of grey clay at 18.6'
20	23	Sand: orange, with grey mottles
23	24	Sand: grey with some orange sand, black specks at bottom, moist
24	28	Sand: orange to grey mottles, some black specks, wet
28	31	Sand: tan with pink and yellow mottles, some pebbles with black specks, wet
31	32	Sand: pinkish tan (flesh colored) with black specks, wet
32	36	Sand: pinkish tan (flesh colored) with black specks, wet
36	40	Sand: greyish tan, with some orange mottles (more orange at 38'-38.5')
		-----Heaving wet sand-----
		Pushed and set well to 46 feet; screened from 26 to 46 feet

Water

Soil Boring Log

Boring/Well No.: GC-12 (Jackson Co.) Project Name: George County Lakes Date: 6-27-2014

Drilling Company: Walker-Hill, Inc.

Drilling Rig Type: Geoprobe/Direct Push

Geologist/Logger: Sid Thompson, RPG

Location: George County, Mississippi

Depth		Soil Strata
From	To	Soil Descriptions and Remarks
0	1	Grass/ topsoil
1	4	Sand: red, med-coarse grained, loose
4	8	Sand: red, fine grained
8	9	Sand: red, fine grained
9	12	Sand: orange-red, fine grained, several layers of tan sand at bottom
12	14	Sand: red, coarsing downward, some pebbles/ gravel at bottom
14	15	Sand: 4" of red, 3" of tan and brown, mottled, with gravel, 4" of greyish brown with gravel, 1" of red with gravel above clay
15	16	Clay: yellow-orange and grey, mottled, stiff, malleable
16	18	Clay: grey at top, yellow-orange and purple mottled
18	20	Clay: yellow-orange, some greyish purple at 19', purple and yellow-orange mottled
20	24	Clay: grey more yellowish-orange within top foot, dense
24	28	Clay: grey, very dense, firm, malleable
28	31.5	Clay: grey, very dense, firm, malleable
31.5	32	Sand: grey (only ~4" at bottom of tube)
32	34	Clay: grey, slight orange and red, malleable, sandy at top
34	36	Clay: grey, no mottles, very dense, firm
36	38	Clay: grey, very dense, firm, with orange and purple mottles at bottom
38	39	Clay: grey, yellow, orange and red mottled, very dense, firm
39	40	Clay: grey, very dense and firm
40	42	Clay: grey, slight yellow-orange mottles very dense and firm
42	43.5	Clay: grey and yellow-orange mottled, very dense and firm
43.5	44	Clay: bright orange
44	45	Sand: orange sand with 2" of reddish-brown gravel at top and sand at bottom
45	46	Sand: yellow-orange at top, tan and grey with orange laminated at bottom
46	48	Sand: grey, tan and orange laminated (layers are ~4")
48	52	Sand: yellow, orange and tan alternating layers that vary from ~1/2" to 2"

Soil Boring Log

Boring/Well No.: GC-13 (Jackson Co.) Project Name: George County Lakes Date: 6-26-2014

Drilling Company: Walker-Hill, Inc.

Drilling Rig Type: Geoprobe/Direct Push

Geologist/Logger: Sid Thompson, RPG

Location: George County, Mississippi

Depth		Soil Strata
From	To	Soil Descriptions and Remarks
0	1	Grass/ topsoil
1	4	Sand: brown, silty, loose
4	8	Sand: reddish-brow, becoming reddish tan at 8', loose
8	11.5	Sand: red, some fine gravel, fining downward
11.5	12	Sand: tan, loose, malleable with slightly grey sand
12	14	Sand: white and red laminated
14	16	Sand: red, some pebbly gravel, loose
16	19	Sand: white and red laminated
19	20	Sand: red coarse grained
20	24	Sand: alternating red, white, grey, yellow, fine grained, wet
24	28	Sand: tan, flesh colored, pink, purple, orange alternating, some mottles
28	30	Sand: orange, loose, some clay at 29.5'
30	32	Clay: orange-yellow, moist, very sticky, some fine grey sand at 30'
32	34	Clay: orange-yellow
34	36	Clay: grey with black inclusions, more tan at 36'
36	40	Clay: greyish-tan, very dense, blood red inclusions
40	42	Clay: greyish-tan, very dense, no red
42	44	Clay: grey, very dense, malleable
44	45.5	Clay: grey, very dense, malleable
45.5	46	Sand: orange and grey mottled, some clay at 45.5'