

Geologic Map

JACKIE LLOYD

DIXIE
LAPAYETTE

SWANNEE

ST JOHN'S

FLAGLER

LEON

FRANKLIN

LIETZ
SINCE 1882
FIELD BOOK

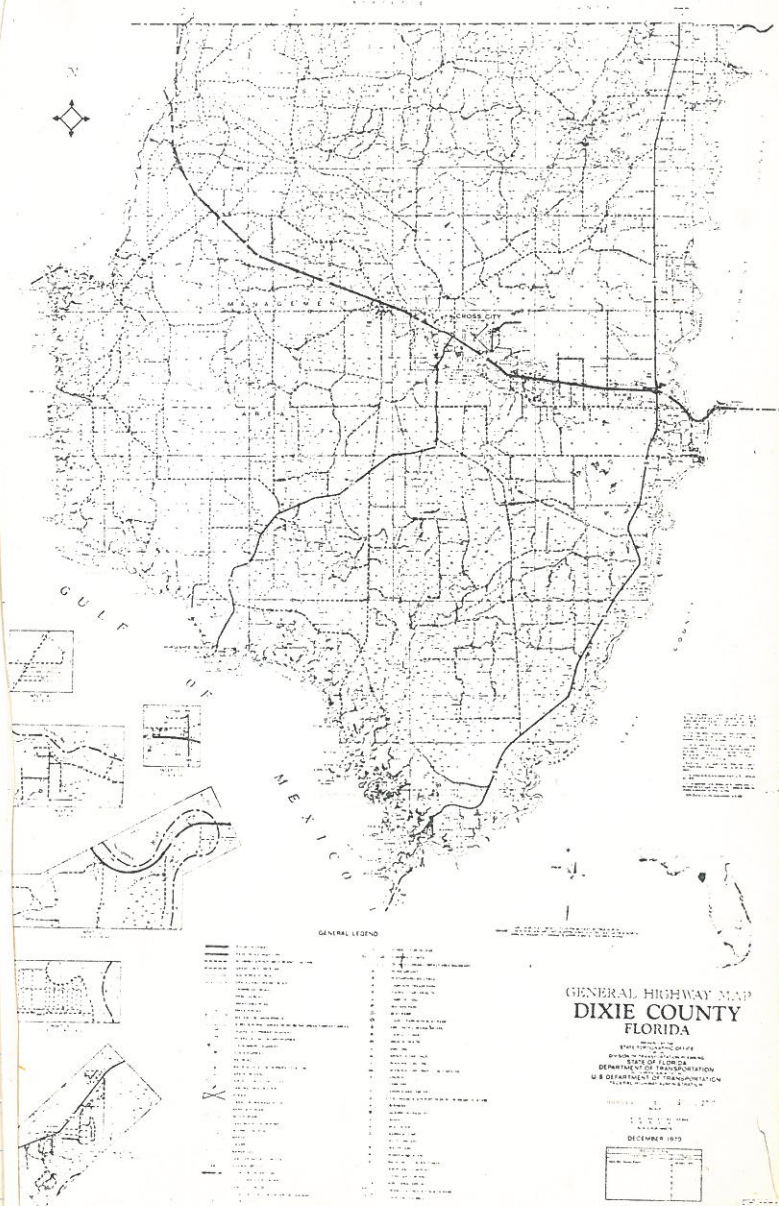
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INDEX

Dixie County	Pg. 1
Lafayette County	12
Swannee County	24
St Johns + Flagler (mostly St. Johns)	48
Leon	



check
B38
for Ocala Group

Dixie County quad sheets:

95D Clara
111B Cross City E
111A Cross City W
111C Cross City SW
121D East Pass
111D Eugene
97C Hatch bend
120B Horseshoe Beach
110B Jena
96D Mallory Swamp SE
96C Mallory Swamp SW
121A Shired Island
110A Steinhatchee
110D Steinhatchee SE
110C Steinhatchee SW
121C Suwannee
112C Suwannee River
121B Vista
112A Wannee

95D
96CD
97C
110A,B,C,D
111A,B,C,D
112A,C
120B
121A,B,C,D

SEE PAGE 15
FOR MS 18 EXCERPT

DIXIE COUNTY

Publications B49, MS79

(Miocene	Alachua Fm
<u>Expect</u> { Upper Ocala Group	Crystal River Fm
(Eocene	Steinhatchee Dolomite member
	Williston Fm

Alachua Fm - very small outcrops (2 areas) in NW Dixie County; prob. not large enough to show on scale of geologic map

Crystal River Fm - most of the n. $\frac{2}{3}$ of Dixie County

cream colored, soft to hard, porous, friable, chalky to xten ls. composed of forams, mollusks + echinoids

Steinhatchee Dolomite member

impure dolomite + dolomitic limestone southeast Dixie Co + N. along Steinh. River

Williston Fm

South $\frac{1}{3}$ of Dixie + one small area in N. Dixie -- pale yellow orange, granular, slightly chalky ls. studded w. molds of mollusks, larger forams, encrusting bryozoans + echinoids

check this
+ "dune
field" area
for sand
thickness

→

These formations, as mapped in B49, are either at the surface or they are covered by only a thin veneer of sand.

Note: H. Kelly Brooks maps an extensive area in N $\frac{1}{3}$ of Dixie Co. as "Pqt-terrace deposits, surface sand over gray to greenish clayey sand and clay with basal gravel of ls. and chert clasts, highly variable"

He maps most of Dixie Co. as Ocala ls., which would agree with B49 but, he shows Suwannee ls. in west Dixie (approx. where Steinh. Dolomite is mapped in B49).

✓ DX-1 Natural Bridge, Steinhatchee R.
Crystal River Fm. NW $\frac{1}{4}$ S22 85 10E

✓ TX-DX-2

NWNW 10E S21 (close to Tennille, 85, 10E)

✓ Taylor Co. - ^{Steinh.} Dolomite member - Crystal River
dolom. at surface, boulders of ls. under - look like Crystal R.

✓ TX-DX-3 Steinhatchee Falls - Steinh. Dolomite Member
SE 29 85 10E

8-11-86

✓ VTY-DX-4 Rocky Creek C.R. 51 crossing
NENE 31 8S 10E Steinh. Dolomite

✓ DX-5 off 358 on Steinhartke River - Steinh.
Dolomite Member NE SW 25 9S 9E

✓ DX-6 recrystallized limestone - Crystal River Fm.
SE SE 25 9S 9E

✓ DX-7 limestone pit behind barbed wire fence betw
two turns on 358 SE SE 30 9S 10E

✓ DX-8 Center NE 31 9S 10E Crystal River Fm.

✓ DX-9 SE 31 9S 10E 10+ ft sand -- sand pit

✓ DX-10 Cryst. R. Fm. SWNW 529 9S 10E

✓ DX-11 S. central edge of 57 9S 11E - Crystal River Fm.

✓ DX-12 Cryst. R. Fm - boulder + rocks at old borrow
SW NW 13 9S 10E pit - mostly swamp

40.65
miles
✓ DX-13 Cryst. R. Fm. SE of picnic area NWNW 35
46.5 9S 11E

✓ DX-14 SW NE 26 9S 12E Crystal River Fm

✓ DX-15 Dolomitized - Crystal River Fm
NW SW 20 9S 13E

✓ DX-16 Possibly Williston Fm. f.g. grainstone
* collected sample

✓ DX-17 SW NE 16 9S 13E Crystal River Fm
(one sample - similar to DX-16 but siltier
matrix - still Crystal River Fm)
active mining across 351 from here

✓ DX-18 Crystal River Fm - old pit NNE 15
9S 13E

✓ DX-19 SWSW 24 9S 13E - quarry
Crystal River Fm; ±4 ft sand cover

✓ DX-20 Crystal River - abandoned quarry
NESW 7 9S 13E

✓ DX-21 old pit - Crystal River Fm SE SE 18 9S 13E

97.9
✓ DX-22 SE SE 14 9S 12E Crystal River

✓ DX-23 Crystal River Fm NE SE 511 9S 12E

8-12-86

canal

DX-24 Steinh. Dol. Member SW 17 11S 11E

DX-25 ^{boulders of} + both Steinh. Dolomite and Crystal River (more of the Dolomite NW 17 11S 11E)

DX-26 ^{Ditched area, boulders} Dolomite + Limestone both Steinh. Member ^{Looks like Crystal River but} some Williston-looking limestone - more granular, less silty matrix SESE 1 11S 10E

CR
DX-27 ^{CR} SESE 1 11S 10E limestone dug up from canal along side road Poor looking Crystal River?
 * Maybe what B49 called Williston collected sample

DX-28 SWSE 1 11S 10E Cryst. River? (Williston CR-B49 - looks a little granular)

CR
DX-29 SWSE 2 11S 10E as above but also some recryst. - better looking Cryst. River
 * also Dolomite - collected sample

DX-30 as above (24) SESE 4 11S 10E

DX-31 as above 2 SESW 4 11S 10E
 * sample a little more granular

CR

Steinh.

DX-32 Dolomite Member - primarily but also some limestone - looks like Williston here - collected sample from
 * west side of road

DX-33 NESE 32 10S 10E Pit mostly boulders of Crystal River - one good boulder of Williston - definitely granular

DX-34 Williston ^{North} on Section line betw. 30 + 25 on R line betw. 9 + 10E 10S

45.1.201

DX-35 Dolomite boulder in roadside canal SESE 2 11S 9E

DX-36 Dolomite - In Place! NENE 24 11S 9E Tom took Photo.

DX-37 Potential Williston - Crystal River attributes - Rocky Creek NESE 24 10S 9E

DX-38 Dolomite

DX-39 Crystal R./Williston? f.g. somewhat granular matrix but somewhat silty NESE 26 11S 11E

DX-40 Dunal area NE 22 12S 11E 20 + ft of sand

Boulders presumably dug up from Canal on N. side of 27, over RR tracks

DX-41 More Willistonish Crystal River Fm contained *Amusium ocalanum*

DX-42 10+ ft. sand (across 27 from drive in)

DX-43 road bud material leading to pit Williston. Pit - also Williston

DX-44 S23 10S 13E Williston Fm ^{almost at} Old Town 0.2 mi W of 349 on 27

DX-45 sand borrow pit SWSE 3 13S 12E

DX-46 sand pit - 10+ ft. sand SW SW30 10S 14E (on section line)

DX-47 Crystal River Fm SENW 13 8S 13E some "Willistonish" in appearance

DX-48 SENE 6 8S 14E Crystal River Fm

DX-49 SE SESW 9 8S 14E Crystal River

Note - We found a puppy today - on logging road in SW Dixie County. We took him to the Shamrock Veterinary Clinic just outside Cross City.

(Nearest animal shelter is in Gainesville!)
The vet. said he looked like a hound puppy.
+ (middle of nowhere, skinny & dirty, apparently abandoned)

8-13-86

Williston Route 121 - visited inactive quarry to look at Williston Fm. Saw some good grainstone - good examples of Williston. It seems to take on a very silty appearance when it weathers though - could this be due to micritization?

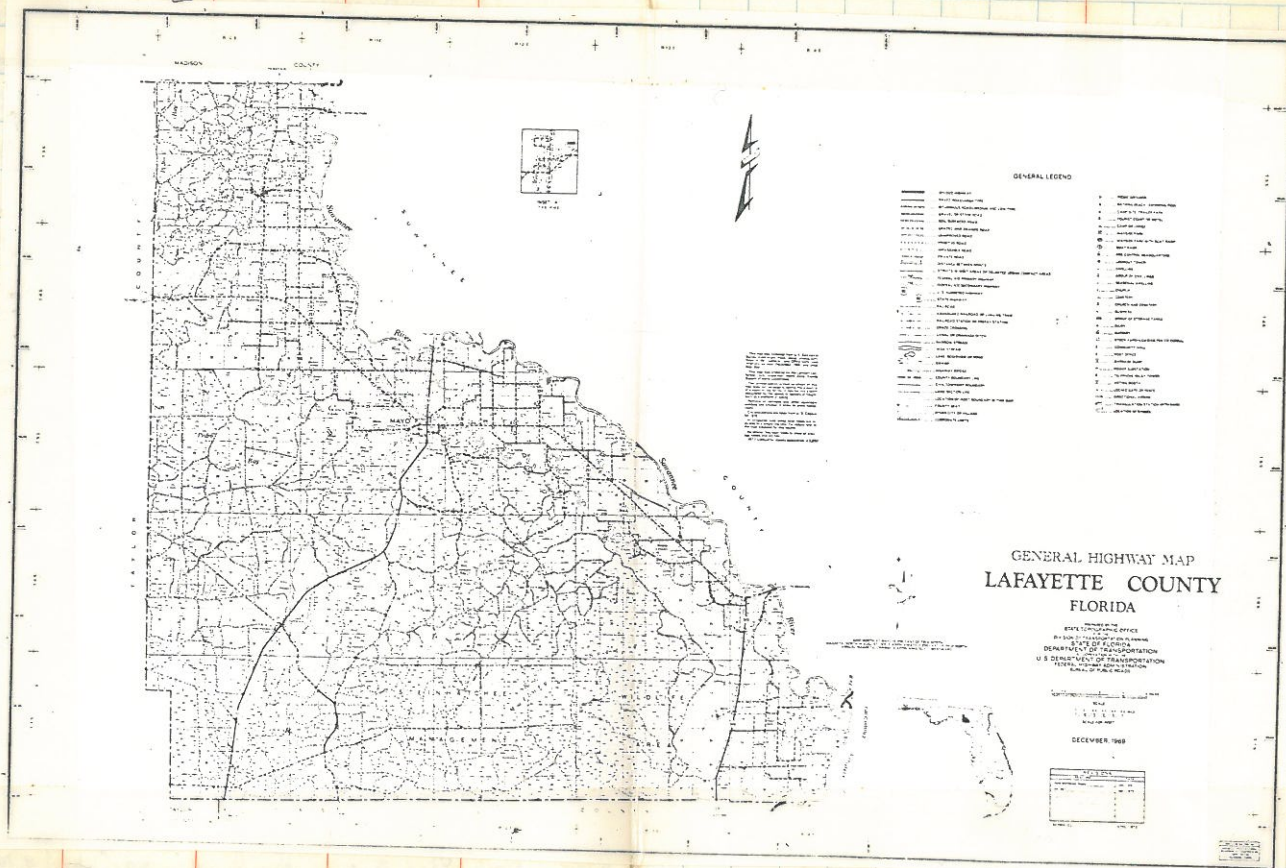
Tom took samples every 5 ft up one of the highwalls (total of 6 samples). Max. ht. of walls was probably ~ 45 ft.

8-14-86

Dolime Pit at Barge Canal
Avon Park + Inglis fms. Separated by rich dark clay bud. Avon Park - dolomitic gs. with carbonaceous material (collected some samples). Inglis dolomite zone over Avon Park - overlain by Inglis ls. zone. The Inglis ls contains a rubble zone - almost a shell hash. Acc. to Muriel Hunter this is how Inglis was initially defined. Large echinoids are prominent throughout the Inglis.

DX-50 Crystal River 0.2 mi off 19, 98 SE SE Sec 22 8S 10E

Lafayette County



Quad Sheets

Graham

Clard

Cooks Hammock

Day

Day SE

Mallory Swamp NE

Mallory Swamp NW

Mallory Swamp SE

Mallory Swamp SW

Mayo

Mayo SE

O'Brien

Bowling Park, Hatchers

Publications MS 79, 88

Extending north from Dixie County we should expect to continue seeing Crystal River Fm. in southern Lafayette, including ^(maybe) extension of the Steinhatchee Dolomite member along the Steinhatchee River in southwestern-most Lafayette.

The Environ. Series Map (MS 79 - Gainesville sheet) shows ls. (blue) in southern Lafayette - probably corresponds to Crystal River Fm. Limestone + dolomite (purple) is shown along the Steinh. River + Kettle Creek - prob. also Crystal River - Steinhatchee Dolomite member. - see note on MS 18 →

MS 88 - Valdosta Sheet

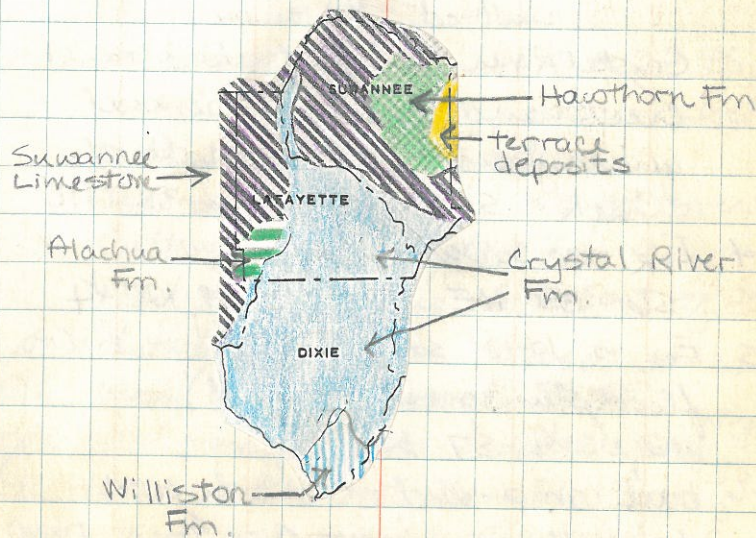
limestone outcrop band along Suwannee R. is probably Crystal River Fm (contact w. Suwannee Limestone is further North).

Remainder of county is clayey sand (green).

MS 18, 1965 Geologic Map -- SW corner of Lafayette County, west of Steinhatchee River is shown as Alachua Fm.

S. Lafayette + area along Suw. River is Crystal River.

W Lafayette (N of Alachua Fm) is Suwannee Limestone



9-16-86

S26 C

- E- L-1 sand pit ~15' sand T35 R10E
 W- L-2 east side of bridge - Mill Creek
 Cr. recrystallized Crystal River Fm.
 L- on Section line - S6 sec 3S 11E
 H- 4-6 ft sand cover in stream
 valley; ~15 ft cover to surrounding
 elevation
 L-3 West of Dowling Park Quarry
 Th. Parked .10 mi from bridge
 G- walked .40 mi in
 in Crystal River Fm - all along Mill
 co. Creek and also in several
 L- quarry pits along N side of
 Creek S½ of NW¼ S6 3S 11E
 - L-4 ECR - on Suwannee River
 S6 3S 11E - center of NE ¼
 L-5 ECR w. 10-12' sand overlying it (to
 floodplain ground level)
 M- NE, NE ¼ S7 3S 11E
 L-6 boat ramp - sand on W side river
 is. outcropping across river from ramp.
 u- ~6' above water line
 N- L-7 ~10 ft sand in pit, exposed on pit
 (g) wall was ~2½' ^{at term} sand, ^{at base} 7½' clayey
 sand; ~center of NW¼ S21 3S 10E

- ✓ L-8 Snake Sink, just W of Blue Spring
 S21 4S 11E ls within 7-10' of
 surface, recrystallized
 ✓ L-9 Blue Spring S21 4S 11E
 natural bridge is top of rock
 ls (Cryst. R.); ~10-12' sand
 cover
 ✓ L-10 - private, ^{could see} 8-10' below
^{land} ^(fenced off) ls at surface
 S29 4S 11E
 9-17-86
 ✓ L-11 Dell Quarry ECR SE¼ S 32 4S 11E
 good Crystal River Fm; numerous oyster
 beds, pectens echinoids.
 Estimate originally ~2 ft cover
 (although in isolated places it can be up to 8')
 Road to quarry is .3 mi East of 251B
 (rd. to Blue Spring)
 on S line 31+32
 ✓ L-12 drainage ditch 8-10' sand SS 10E
 Note: sited group of ^{black} wild pigs - 3 adults, 1 baby ^{N½} S33
 ✓ L-13 boulder on W side of Hwy 51. Highly ^{SS 10E}
 altered but probably Crystal River Fm.
 Collected samples
 ✓ L-14 stream just S of City line - cream to gray to
 yellowish brown clayey sand - ^{take sample to} compare w.
 Hawthorne 3AA 8S 10E
 -- at water level ~8-10 ft below sur.
 ground elevation

(also in stream bed
~8-10 ft bel surface)

- ✓ L-15 on WMA rd. S34 abd 7S 10E
more yellowish-brown clayey sand - more
clay than L-14. Sampled

Note: Stopped at Steinhatchee Spring - we were
not impressed.

- ✓ L-16 at cross-road on WMA rd. S35 7S 10E
boulders + rocks - Crystal River 70-80% sure
that they are in place but road consists
of linerock

- ✓ L-17 0.2 mi from L-16 Borrow pit. Definitely Ecr.
9-18-80 11' surface in road bed. Pit ~12' deep.

- ✓ L-18 Crystal River - borrow pit ~15' deep total
ls at ~8 to 15' below surface; on sect. line
S35 4S 11E on N-S dirt road heading N
toward Perry Spring on Suwannee River.

Cryst. River is underlain by gray to yellow
brown clayey sand.

- ✓ L-19 at the River on same road. ls visible across
R. Approx 14' from line to top of rock.
-Ecr S26 (on section line) 4S 11E

- ✓ L-20 on S line but 2+3 5S 11E. Sinkhole w.
ls rubble in bottom. ~8 ft deep. Nothing
obviously in place.

25
58 N
yellow
off
section

- ✓ L-21 S34 4S 11E - sink, chert boulders on
ground next to it. Fenced off - we couldn't
get in + check it. Picked up piece in road
looks like Ecr.

- L-22 buff to orange bank of clayey sand. ~3-4 ft high
on N section line of S34 (midpt). 4S 11E

- ✓ L-23 on Suwannee R. SW SW 527 4S 11E. rock exposed
in river banks at ~12-15 ft below sun.
land elevation. Many chert boulders +
recrystallized carbonate - Ecr.

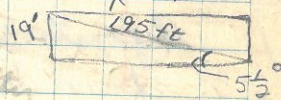
- ✓ L-24 at Suw. P. bridge on (51) N0NE S36 4S 11E
Ecr. Top of rock ~12-15 below sun. gr. elev.;
~6 ft above water level.

- ✓ L-25 at Jim Hollis' River Rendezvous
- Convict Spring SE SE 535 4S 12E. Ecr
top of rock 8-12' bel. surface. Good exposure
of ls ledges visible across river at ~8
to 10 ft above water level. Met Jim's
brother. Got on mailing list!

Spotted doe on 355, 532 5S 12E

Wild turkeys on 251 going N toward River
517 5S 13E

- ✓ L-26 on Suwannee R at end of 251 517 5S 13E
~100' upstream of island in river
~10-12' bel. surface
Ecr ~6' above water level. 14C measured water level
below sun, ground elev.



- ✓ L-27 Ecr - with great difficulty
+ much luck we found Ruth Springs.

Area around spring contains a maze of roads
not shown on maps. Top of rock at ~25'
elev. which is 10-15 ft. below surrounding elev.

- ✓ Ecr
L-28 Bridge on 27 at Branford NENE 20
6S 14E. Ls exposed across river.
up to 10' above water line; 210' below surf.
L-29 gray to yellow brown, clayey ls/sdy clay
above water line; 2' core
✓ L-30 sinkhole 8 mi S of city line on E side
of Hwy 349 S1 85 13E Ecr within
10' of surface
Rattlesnake siting - 4 ft long; off Hwy 349
S25 75 13E So edge of Branford pond
~~9-19-86~~
✓ L-31 Borrow pit - Hwy 349 SW NW 18 7S 14E
Ecr At surface to ~4 ft below. Solution cavities
~10 ft to water level
✓ L-32 creek bed N of McCall's Chapel. W side 349
S25 75 13E Ecr at surface to
water level (6-8 ft depth)
✓ L-33 Ecr quarry ls. from water level
(30-35' deep) to surface N 1/2 11
8S 14E
✓ L-34 creek bed + ponded area - ls appears
to be near surface but not
definitive
✓ L-35 found driller working on well. He said
sand + clay at 9 ft "Dolomite"
at 40' + cased to 59 ft. (59' to
hard rock) S11 6S 13E

Stemh. Wildlife Mgmt Area - Spotted doe + her fawn
S1 7S 11E

(N-most E-W road through WMHA. - Ditch
along N side of road - sandy spoil piles.

✓ Clayey sand - grayish brown to very dark
brown at water level to about 2 1/2
ft. above water. 1 1/2 - 2 ft sand cover
over that.

→ L-36 and 37 36: S1 7S 11E
37: S6 7S 12E

L-38 chert boulders on side of road, probably dug up
from drainage ditch S5 7S 12E. Appears to
be chert lens found ~10 ft above top of
CR in the Sumner Ls (KC). Collected
samples. Most likely it is float.

SUWANNEE COUNTY

publications: MS 79, 88

RI 87 (N. part of county)

quad sheets: Branford (w. Lafayette maps)

Dowling Park

Ellarville

Falmouth

Fort Union

Hildreth

Hillcoat

Live Oak East

Live Oak West

Mayo (w. Lafayette maps)

Mayo NE

Mayo SE (w. Lafayette maps)

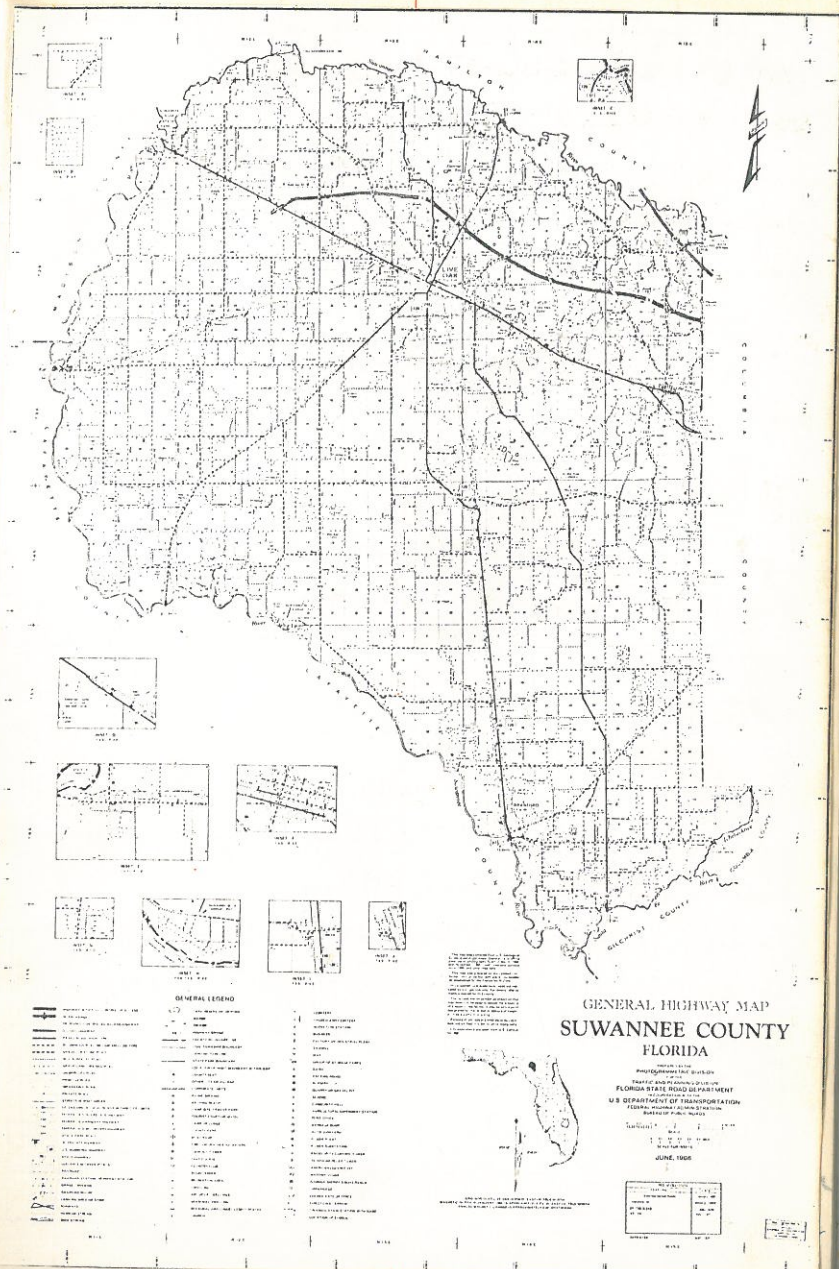
McAlpin

O'Brien

O'Brien SE

Wellborn

White Springs West

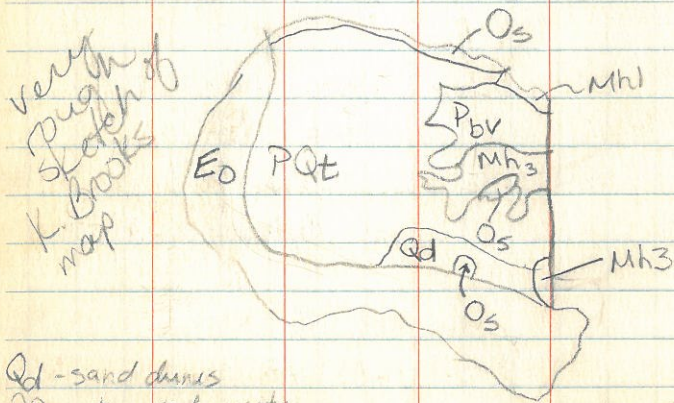


SEE PAGE 15 FOR EXCERPT FROM
MS18.

- MS18 - Crystal River along Suwannee
River (border with Lafayette
Cty)
- Most of rest of county -
Suwannee ls.
 - Eastern part of county -
Hawthorn + terraced deposits

Kelly Brooks

- Ocala ls along River, border w.
Lafayette
- Suw. along N border of Cty



Qd - sand dunes

PQT - terraced deposits

Pbv - Bone Valley

Mh3 - Hawthorn,

Mh1 - "

Statenville type

Dunk Millhopper type

Os - Suwannee

Eo - Ocala

Urban Mining Co.

8-10 mi S of Line Oak

2-3 mi W of Hwy 129

on Hwy 252 W-N 2 miles
quarry on left

Supt. Mike Hudson
John Myrick

11-3-80

S1 So side of Suw. River, near Ellaville

S24 IS 11E type locality Suw. ls.

collected samples - under old
bridge - rubble zone; description
in SP5 fits except bed 4 seems
to be missing + we only
estimate 6-7 ft sand & clay

S2 Boat ramp - Suw. R State Park - So. of

Dry Run ~ 100 ft. S24 IS 11E

Recrystallized tuffified zone beneath
highly dolomitized ledge. ~ 10 ft of
sand cover

on S-249
actually in Hamilton Co. (N side river)

S3 S35 SESE 1/4 IN 12E Boat Ramp - Hutch Gibson

Park - more mollusks & echinoids than previous
stays also more pesty. also oyster beds
~ 6 ft sand cover
Cassidulus goniatitis
samples

S4 red sandy clay over pink/cream mottled zone - took samples (1 ea) of both zones SENE 4 S29 IS 13E

S5 Suw. Ls. - boat ramp at FL Boy's Ranch SESE S4 IS 13E

S6 sandy clay red to pink + cream on S-132 on S line betw 14 + 23 IS 13E - sampled.

S7 SWSE 17 IS 14E Suw. Ls. 10-12 from water level to top of Suw. 10-15 ft sand overlying it. In place up to 4 ft of the red sandy clay - but here it was filled with ls. inclusions - appears to have been removed as a unit & remains as sinkhole fill. The Suwannee looks very similar to that at S1 - rubbly zones. Recent burrows - collected samples.

SESE S18 IS 14E

S8 Possibly Hawthorn - green clay from large field that appears to have been a pond borrow pit.

S8 cont. - looks like ~2 to 4 ft sand was removed. Surface is still sandy so we are not sure how extensive the Hawthorn (?) is here only found it definitely in place over very small area.

S9 10-12 ft Suw. Ls., 10-12 ft sand over outcropping across river from boat ramp. Extremely rubbly zone. NES 18 IS 14E

S10 on Hwy (S1) just W of Live Oak good roadside outcrop of red to gray mottled clay - brick red oxidized blebs. Fresh pieces are good clays with sand floating in the matrix and are cleaner gray - sampled S13 S5 13E

S11 - quarry S12 S5 13E Suw. Ls.

we walked out large area - could not find any accessible high walls to dig in place amount & type of overburden but area is def. all Suw. Ls.

30
11-4-86

center of NW 1/4

S12 N S11 25 13E 10-15 ft of rd to gray
+ some greenish gray sandy clay
(sampled) over Suwannee Ls.

NE SW 1/4

S13 S5 25 15E N end of section checked
we found 15 ft of sand over Suw. Ls.
with Suw to water line. Heading
west along river - clayey sand
(white), which we sampled, from
water line to ground surface -
totaling 12 to 15 ft in thickness.

S14 on S13 1/2A just E of Rocky Creek S WNE S17

25 15E sandy clay white in places to
mottled cream/buff red

TOP
+ 0-4' sand

4-5' ironstone pebbles w. coarser
sand, then ironstones w.
grain size more characteristic
of sandy clays we've been
seeing

5'-12' sandy clay (described above)

SW NE S3 25 15E

31

S15 - 100 yds downstream from end of rd
0-3' sandy clay - clayey sand - mottled
phosphatic, brown clayey sand ^{sampled}
3-3 1/2' brown, phosphatic clayey sand ^{sampled}
3 1/2-4 1/2' oyster bed - Suwannee Ls.
4 1/2-7' Suwannee Ls ^{sampled}
at water level - green clayey sand (washed
down?)

↑ above description is from a prominent
ledge on river to water level.

12' of pale brown sand core above
ledge ² laminated sands - river
deposits

distinctly undulating Suwannee
surface with discontinuous
Hawthorn

S15A - sample collected right down
slope from end of road - olive green
clayey sand - phosphatic - Hawthorn.

This general area appears to be good
place to draw Suwannee / Hawthorn
contact.

S16 S11 25 15E 20-25' sand +
 ● clayey sand

S17 S7 2 S 16E

● ~12 ft sand overlying Hawthorn
 sandy clayey limy phosphatic

S18 cream to gray + orange-red
 mottled clayey sand ~10 ft
 ● exposed in road cut
 road cut is ~.2 mi long
 sampled on Mt. Oline Road
 SE SE S25 25 14E

work
 S19 S30 25 13E more sandy clay
 orange red near surface,
 ● brown to brownish gray below
 that. road outcrop ~.1 mi
 long; ~2 ft thick. on S136
 (9a) did not stop but observed more red clayey
 (Ab) sand cuts

S20 3-5 ft clayey sand - mottled cream/red
 ● to gray brown over Suw. Ls.
 NW NW S25 25 12E

S21 on Suwannee River S28 25 11E
 ↓ 0-10 ft sand cover
 ↓ 10-16 ft Suwannee Ls
 16 ft water level
 took samples
 at w.l. - micitized
 at ~2 ft turritellid zone
 ~6 ft highly recryst. ledge
 height above water level.

al most
 litho q/s
 ↓

S22 also on River NENE 32 25 11E
 ● same zonation as above except
 missing turritellid zone
 also sampled
 → except at w.l. we may have
 to 2 ft above w.l.
 Ocala Ls - Crystal River.

11-5-80 1.1 mi N of Mitchell Rd.

S23 Falmouth Rd. S9 25 12E
 ● sinkhole on E side of road
 float - highly recrystallized
 sampled Sinks on W side of
 road also (fenced off) with
 similar looking float.

S24 new sinkhole - 15' deep - all clean
 sand SWSW 4 S30 15 11E

just so of where Anderson Spring is shown on quad - rd. to spring is gone

NWSE 35 IS 11E on Saw River, So of I-10, Ea of River Rd

1st stop ~3 ft of rock exposed above water micritized zone at w.l. to ~2 ft above.

heavily recrystallized zone - ledge ~1 ft thick above the micritized zone

2nd stop. 0-5 ft (variable) cover

5-6 Suw. Ls. - somewhat micritized

spring grainstone - fossiliferous - cassid. gouldii

6-12 recrystallized hard ls. (or dolomite?)

12-18 micritized, somewhat softer (variable) ls.

18-20 also micritized but more recryst., harder ls. - grainstone micromorphic

20 ft water level - buccinated

discontinuous, thin bedded, recryst.

zone which forms ledge. Appears

more continuous across river - this

may be just bec. of vantage pt.

Some of the softer zone below this

looks X-bedded - KC photographed

actually 2-3 ft undulations in level

of ledge. underwater in places, up

to 3 ft above water elsewhere (within

200 yds.)

SE NWS 3 2S 11E

S26 ~6 ft of exp. rock above w.l.

- dolom. or recryst. gs at w.l.

- hard recryst. ledge at ~3 ft above

~16 ft of sand cover incl. natural levee

Suw. Ls

S27 NE SW S3 2S 11E Suwannee Ls

0-10 ft sand cover

10-11 ft fossil. recryst. variable hardness

11-12 ft massive, prob. dolomitized,

highly recryst. zone - very

little fossil preservation - some

flat echinoids (possibly bottom

12-15 (w.l.) somewhat micritized, variable

hardness + foss. preservation.

upstream a few hundred feet -

unrecryst. calcarenite above hard ledge

Suwannee Ls. ↑ - has cones in it

NENE S10 2S 11E

S28 noncrystallized Suwannee Ls.

new lithology in zone at w.l. that

we have not observed previously - densely

recryst. with birdseye proximity - no orig.

texture preserved, saw 1 tubelid -

no way to discern what fm. it

belongs to.

15 ft. cover / 10 ft. rock exposed

S29 SWSW 5 35 11E Suwannee ls.

- thick dolomitized section - massive unfoss.
- small "hummocks" of undolomitized
- muddy grainstone containing *Cassidulus gouldii* (sampled)
- flat echinoids pieces found similar to S27
- fossiliferous zone at water line (sampled)
- ~12 ft rock exposed / ~14 ft. cover

→ rinds around hummocks are recryst. echinoderm bds. Kc found section where echinoids were not completely recrystallized - sampled.

S30 SE 5 35 11E at Camp Suwannee

- fairly clean calcarenites near w.l. Ocala type fossils - echinoderms, bryozoa - camerinids, nummulites, opercularoides (discus shaped)

~12 ft rock exposed

possible contact betw Ecr & Os at about 3-4' from w.l.

~28 ft red clayey sand cover (est. from top sheet)

Revisited Dowling Park quarry - need to carefully check samples & notes on return to office - may revise pick of basal Suwannee / top Ocala (CR).

S31 NWNE 17 35 11E ECR ~15' cover ~6' rock exp.

- S31a slightly downstream - thicker section exposed ~10 ft. - white honeycombed (foss. zone at top of section - mollusk rich, also turritellids - also one possible *spiralia vermonii* - sampled)
- maybe uppermost Ecr or lowermost Os (?)

S32 SWSW 21 35 11E - old quarry - now

- overgrown cow pasture - no rock in place dolomitized ECR (?) - sampled ls. within 10' of surface

Lancaster Quarry - completely fenced off - could see ls. within 10' of surface

- S33 abandoned quarry, ls. at surface near Lancaster quarry was ~20 ft deep. ECR at bottom of pit.

Took samples near top. - two zones 1) a lower homogeneous zone & 2) an upper "rubby" looking zone

534 6-8' deep sinkhole - pink clayey
sand NENE 12 35 12E

note - viewed from road only - field
was fenced off

535 viewed from rd. also

red clayey sand - man made
pit NWNW 11 35 12E

536 fenced off - viewed from rd.
sinkhole with ls. showing
~10 ft below land surface
- float? NWN 8 35 12E

537 another sinkhole ~20 ft depth
red clayey sand - seen from rd.
NW SW 10 35 12E
(series of sinks in S10 - all
similar)

538 roadcut, 6-8 ft sand - on section
line betw. 25 + 30 35, betw 11 + 12E
topog. looks like dune sand

539 Charles Spring SENW 54 45 11E

2 ls. bridge Ecr - definitely full
6 ft + cover; 6-10 ft ls. exposed
picturesque waterfall where
spring water runs into river
- cover material - red + gray mottled
clayey sand + clean sand
in terrace
silicified boulders above
the ls.; indeterminate origin
but possibly Suwannee

540 road cut NENE 58 45 11E

4-5 ft clayey sand
red + gray mottled at top grades
down into orange sandier clay

SWSW 9 45 11E

541 Thomas Spring - no rock exposed
on this side of river here or in
spring. 2' + ls. exposed across river

(img. section)

542 527 45 11E

silicified sand
boulders of recrystallized Suwannee
in river (a few on edge of river)
found. cassidulus boulders otherwise
origin would have been undeterminable
boulders form a ledge running NNE-SSW across river
on both sides of river

SWNE 24 4S 11E

543 shallow (2-3 ft deep) borrow pit, orange clayey sand to light brown cleaner sand; small pockets of gray + buck red mottled clayey sand (~20% clay at most) no rock exposed.

544 Luaville Spring #1 (Northern)

• ECR very little cover, ~10 ft ls. exposed in spring + above

545

• Spring #2 - Southern spring ECR

904-373-0741 Tom Morris

sinkhole, Luaville Rd. NE ^{NW} 20 4S 12E

546 ECR at ground surface

• where distinguishable. Much of the rock exposed here is heavily recrystallized, thin bedded, not distinguishable

0.1 mi SO another sink with same lithology

547 Peacock Springs SENE 20 4S 12E

• Northernmost spring ECR - at least 6 ft exposed above water.

ls visible below water - crystal clear deep pool - pretty!

Much of the exposed rock is very crystallized. Still recognizable CR lithology in places.

548 Running Springs NESE 28 4S 12E

• ECR ~6-8 ft exposed rock (above w.l.) ~10 ft cover - orange clayey sand + sandy clay to clean sand (at br.)

549 Urban Mining Co. off S-252

• So side of hwy. 54 (NWNE) 4S 12E

Swansee ls. - sampled.

Mike Hudson - manager.

pit - 30 ft deep; cover variable from 6" to 5 ft (average)

550 Pump Spring SWNE 17 4S 12E

• Swansee ls (?) - 2 zones, sampled both. upper soft frammiferal zone, lower, harder fossiliferous zone - molluscs, gastropods, bryoz, etc. 1-2 ft cover, 26 ft rock exposed.

11-7-86

- 551 ^{near} Camp Weed, White Lake - sinkhole
 ~ 5 ft rock exposed - Suwannee Ls.
 ~ 1 ft cover

took sample SW NW 33 35 14E
 Joe Chamberlain - manager Camp Weed
 took us to the sink. Provided
 info on another 50. of here

flat tire (or getting there) - Ken
 changed it.

NENE 54 55 14E

- 552 ^{range of} closely spaced holes in
 large sink. Suwannee Ls. -
 sampled 15 ft core / 15 ft rock

553 Suwannee Limestone Co.

- ECR ~15 ft exposed in quarry walls
 hardly any cover in places (6")
 average is prob. 2-4 ft.
 took samples from various elevations
 + up to top of wall.

554 Branford Spring NENE 20 65 14E

- ECR up to 10 ft exposed, 2-10 ft cover
 plenty of leys - some recryst. zone

- 555 - Hatch Enterprises SESE 16 65 14E
 • N side of 27 0.9 mi E of river at Bran-
 ECR ^{ford}

- 556 ls. quarry 2.7 mi E of river at Branford
 • on N side of US 27 ECR - little or no
 overburden, 15-20 ft of CR exposed
 - just to East of quarry, ls exposed
 in ditch on N side of hwy.

- 557 abandoned quarry on Lebanon Belp.
 Church Rd. S24 65 14E, fenced
 off but ls visible at surface,
 KC photographed

- N side Santa Fe River
 558 boat ramp on US 129 NW NW 6 75 15E
 sampled - Pliocene river deposit (?)
 ↳ sample from E side of hwy
 ~4 ft exposed
 (with pres.) ^{clean shells} in ^{matrix}

- 559 NW NW 33 65 14E no rock exposed
 on this side of river - sand.
 ~1 ft of rock visible above w.l.
 across river
 banks of river are only 10-12 ft
 total height.

SESE 3 7S 14E

- S60 CR at water level ~1 ft. thick
 2- (overlain by brown clay, grading
 3 up into ^{orange} clayey sand, overlain
 by clean sand (12-15 ft)

S61 Sandy Point NENE S6 7S 15E

- 0-1 ft clayey sand
 1-2 ft marl (as seen at S58)
 2-3 ft ECR
 3 ft water level (ls. visible 10-15 ft
 below w. l.)
 just so. of boat ramp

S62 Anderson Mining Corp - Lanier Pit

- Sections 19+20 6S 15E
 on N. side of US 27, approx. 1 mi E of
 US 129. good classic stuff
 25-30 ft of ECR exposed in quarry
 walls (surface to water level).
 rock right up to surface.

S63 Ichetucknee State Park - South end

- N of 27, E of river NWNE 23 6S 15E
 5 ft ls. exposed to near ^{ground} surface
 ECR - good CR

11-17

S64 abandoned quarry NE SW 12 6S 14E

- ECR, little or no cover - sampled

S65 sinkhole on section line
 betw 11 + 14 6S 14E
 ls near surface - fenced off.

S66 Ichetucknee Springs St. Park

S12 6S 15E ECR

Bill Chaney - send some L12's
 Park Ranger

S67 S34 (SWSW) 5S 15E

sand pit 10-15 ft. deep (fenced off -
 observed from dirt road running E-W
 + north of pit - used KC's binoculars):
 some float - guess Suwannee chert?
 otherwise all sand & clayey sand

S68 SWSW 27 5S 15E

large boulder of basal Suwannee
 chert - molds of *crass. gouldi*

↑
 prob.
 same

S69 SE S15 5S 15E - quarry
 ECR at or near surface

S70 orange clayey sand (sampled)
 3-4 ft exposed in roadcut
 on Hwy 252 Sbd 45 15E
 N side of road.

S71 orange-buck red-gray clayey sand
 -sampled - 3-4 ft exposed in road
 cut on Hwy 252-south side
 S4 bdd 45 14E

S72 4 ft sand over gray clayey
 sand (1 ft) over orange+gray
 mottled clayey sand,
 samples of ea cut $4\frac{1}{2}'$ + $5\frac{1}{2}'$
 below land surface
 S27 SE SW 3S 15E

S73 0-7' sand "dulla's
 7-25' clayey sand log"
 25-45' stiff clay
 45-135 white limestone
 135 tan ls.

well being drilled on 129 S of I-10
 S12 2S 13E

S-74 on I-10, E of State Hwy 249, 533rd
 1513E

0-5' sand

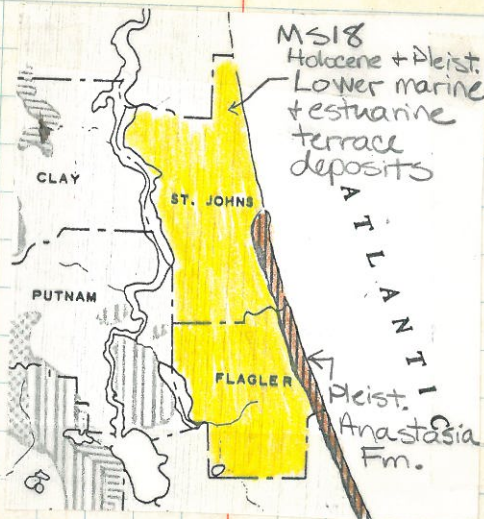
5-8' variegated clayey sand (orange
 -gray) (sampled)

- sand
- clayey sand (>20')
- clayey sand (<20')
- Mh
- Os
- ECR

AmEx 3782 447518 11009-me
3782 447508 11000-Ed

Monterey Motel 904/824-4482
on U.S. 1 business rt. + SR A1A
16 Avenida Menendez
Monday 12/8 32.00
to
Friday 12/12

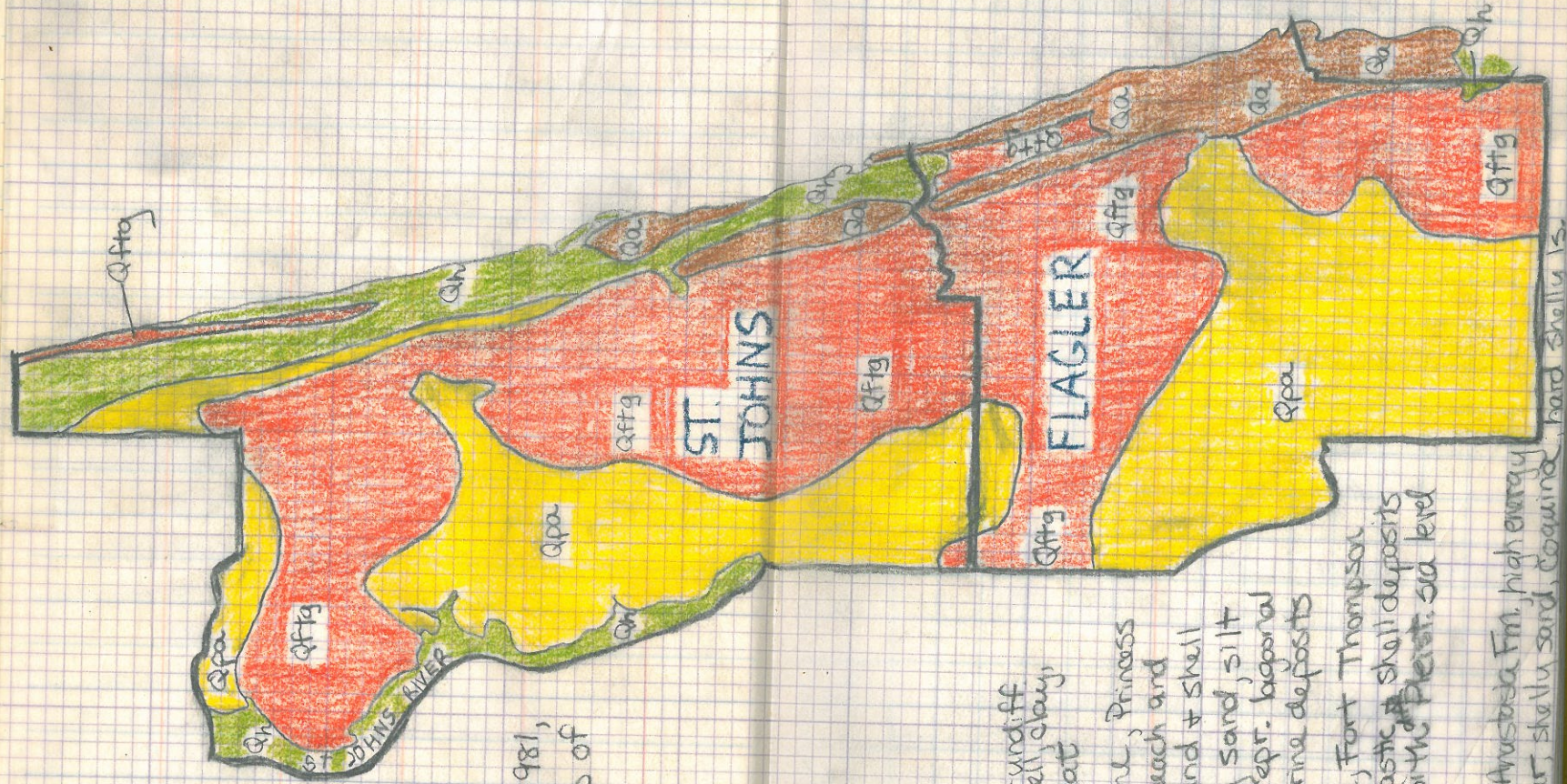
Durbin
Elkton
Fleming Island
Green Cove Springs
Hastings
Matanzas Inlet
Mickler Landing
Orangedale
Palm Valley
Picolata
Riverdale
St. Augustine
St. Augustine Beach
South Ponte Vedra
Spuds



Publications : RI 32 - Geol. + Groundwater
Flag. Putn. + St.
MS 18 - old geol. map
89 } environ.
93 } map series
IC 14 } water
37 } resources
39 } only - not
pertinent
to geol.
mapping

Kelley Brooks map (1981) - see next 2 pages
appears to be based primarily on
elevations (compare with Tenace
map, RI 32). Probably not the way we
want to do our geologic mapping.

From
H.K. Brooks, 1981,
Geologic Map of
Florida



Qh - Holocene - undiff.
sand, shell, clay,
marl, peat

Qpa - Pleistocene, Princess
Anne, beach and
dune sand + shell
w. silty sand, silt
+ clay repr. lagoonal
+ estuarine deposits

Qftg - Pleistocene, Fort Thompson
Group, clastic shell deposits
assoc. with Pleist. sea level
stands

Qa - Pleistocene, Anastasia Fm, high energy
beach + bar, shelly sand, coquina

12-8-84

SJ1 - Trout Creek S¹/₂ S23 5S 27E~6 ft sil. gr. surface
2 ft sand exposedSJ2 - pit in front of ^{new} construction~6 ft sand containing
brown organics
S23 db 5S 27E

SJ3 - sand borrow pit at Inters. of 16 +

13, irregular S37 6S 27

white sand w. orange iron stains
~7 ft deepSJ4 on river on Rd Shards Budge
~10 ft sand (now fishing pier)SJ5 sand pit - closed by city
prob. ~7 ft deep tan sand
very irreg S39 5S 27E

-10' white sand

SJ6 sand borrow area S. of Mill

S39 → Creek + sand pit N. of Mill

S42 → Creek ~15' white sand
5S
27E

SJ7 - man made drainage ditch

~8 ft brown sand
S37 8S 28E

SJ8 - drainage canal, lt. brown sand

~7 ft deep. shells visible but
were hauled in for road
S28 da 7S 28E

SJ9 drainage ditch - fresh (being dug)

very dark brown, very organic rich
sand 5-6 ft deep S37 6S 28E

SJ10 public landfill

white to lt. brown sand 5-6 ft.
S5 db 29E 8S

SJ11 off AIA - across from Crosson

Sword sign, just S of Malina
St. coquina pit ~6 ft deep
Anastasia Fm

SJ12 at Anastasia St. Park - coquina

pit ~12 ft deep. Used by park for
bdg. material S21 7S 30E

SJ13 pits on Old Beach Rd,
St. Augustine (turn off A1A
at St. Aug Baptist Church,
go 1 blk, then S on Old
Beach rd - pit is on left
side just N of monument)
~ 12-15 ft deep, Coquina,
Anastasia Fm.

SJ14 2-4 ft orange sand overlying
shell beds - Anastasia Fm.
pit 10-15 ft deep.
S23 (angular) 7S 29E

SJ15 Anastasia Fm.
Coquina pit ~ 2' shelly sand
S43 7S 29E over Coquina

SJ16 Anastasia Fm. ^{S43} another coquina
pit, same lith as SJ15

SJ17 S14 7S 29E } Anastasia Fm
SJ18 S14 7S 29E } (pits)

M-4796

SJ19 S51 7S 29E Cooks Bay's Green Thumb
Nursery-quarry - 15 to 25 ft of sand,

19 com 16.

contained
cross-bedding

layered with varying amts of organics,
heavy minerals, mica, oolites green
clayey sand (at quarry water
level) - sampled the green clayey sand

M-4797

SJ20 - active quarry - S34 6S 29E

~ 10 ft Anastasia, interfingering
of good shell beds with shelly
clay beds, varying organic-rich
marly zones; oolites green
shelly clayey sand again -
phosphatic (sampled)

Note - dyf. good Anastasia dug out
of pit but good continuous
exposures were not visible.

~ 8 ft deep
SJ21 S15 4S 29E drainage ditches,
future golf course + development
extremely variable lithology
much, sands, sandy clay, green clay
- developer stopped + talked w/
us - they also found small
pockets of coquina

SJ22: S1045 29E - pipeline ditch
clayey sand, sandy clay + clay
(green, phosphatic); similar lith.
to last stop except here we saw
occasional shells - nothing apparently
in place so est. of depth/thickness imposs.

SJ23 S21 35 29E - muck, green clay
similar again to last few
stops but more shells in places
also more clay, lot less sand
(~80% clay -- other stops were
more like 50/50). ~6 ft deep.
- another golf course, development

SJ24: S40 45 29E - intracoastal waterway
~2 ft of brown sand above w.t.

SJ25 S25 45 29E off A1A
sand dunes up to 30 ft high -
clean dune sand
beach - shelly sand, varying shell
size + fragments, sorted by wave
action.

- Anastasia

SJ26 off A1A on beach - shelly sand
S17 65 30E

SJ27 beach
off A1A at end of Vilario Beach
Bridge Rd - white sand
S9 75 30E

SJ28 Ft. Matanzas Nat Mon
Matanzas R - white sand, only ~
1 ft visible
beach side - white dune sand
dunes ~20 ft in elev.
beach itself - clean sand

old
SJ29 A1A S38(?) 95 31E
X. beach - orange shelly sand; shell
fragments very finely ground.
12-10-80

SJ30 bridge on Miller Rd (closed)
S21ab 95 28E - brown org. rich sand
only 1/2-1 ft in creek bank
remainder prob. hauled in for
bridge const.

M-4799

SJ31 ~1½' brown sand + muck over
orange/gray mottled ^{sandy} clay (sampled)
S20 95 28E

SJ32 bridge over creek S33 95 28E

32a + ditch just N of creek
at bridge ~5' brown sand
ditch ~1' (at most) brown sand
over clay - same lith at 31

SJ33 Favor Dykes St. Park Picnic Area
Pier white sand (thin veneer)
over black sandy peat (~1 ft
exposed)

SJ34 Frank B. Butler St. Park 85 30E
dunes - 15-20 ft - clean white
dune sand
beach - sugary sand, white,
very few shells (~1/sg ft
at most)

LEON COUNTY

PUBLICATIONS: B47, 58

MS 90

SP 14, 16

QUAD SHEETS:

Beachton

Bloxham

Bradfordville

Calvary

Cody

Havana South

Hilliardville

Lafayette

Lake Jackson

Lake Miccosukee

Lake Munson

Lake Talquin

Lake Talquin SE

Lloyd

Miccosukee

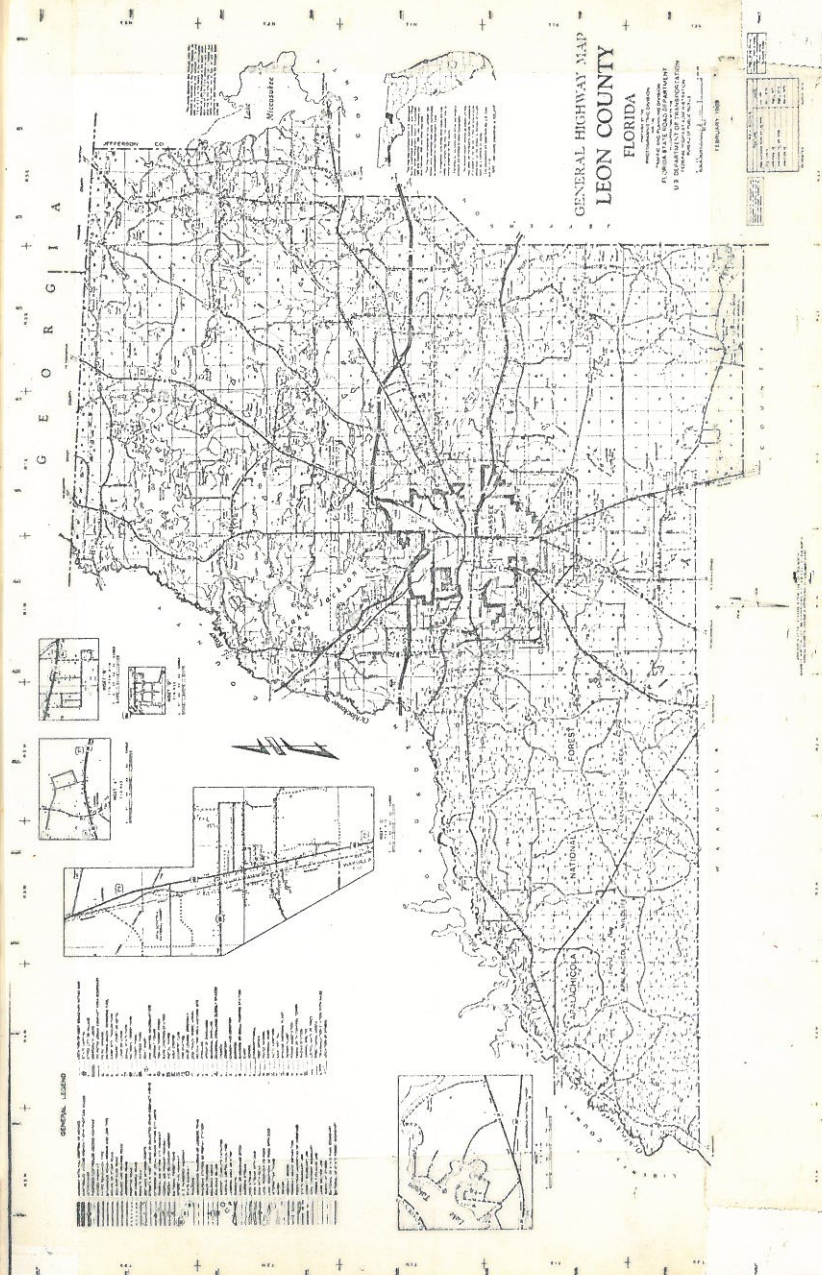
Miccosukee NE

Midway

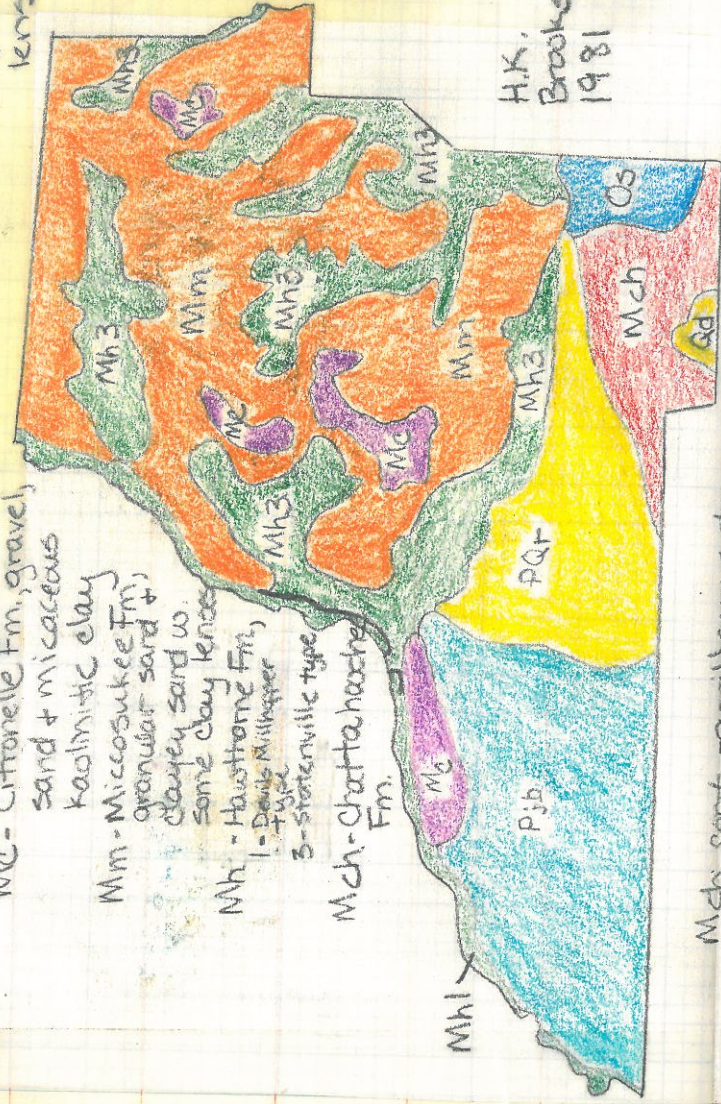
Tallahassee

Ward

Woodville



Qd - sand dunes - well sorted fine sand, mostly pale orange
 PQR - beach + dune sand, coarse to f.s. with some clay
 Mc - Citronelle Fm., gravel, sand + micaceous kaolinitic clay



Mm - Micosukee Fm.
 granular sand + clayey sand w. some clay lenses

Nh - Hawthorne Fm.
 1 - Devils Millhopper type
 3 - Starnville type

Mch - Chattanooga Fm.

Mch cont. - argillaceous to sandy impure ls.

Os - Suwannee ls, microfossiliferous, partially recrystallized soft to hard granular ls., pale yellowish orange



MS 18:

Mm Micosukee
 Mjb Jackson Bluff
 Mh Hawthorne
 Msm St Marks
 Os Suwannee

Bull 47:

Pleistocene clays stripped off southern + western-most areas of county. Lithologies of fms mapped:

Oligocene

Suwannee ls.: very pale orange, abundantly microfossiliferous, granular, partially recrystallized ls (calcarenite) w. a finely crystalline matrix. Partially dolomitized esp. lower half. Thin chert zone is locally present at top of the Suw. ls.

Miocene

St. Marks Fm.: Fine to med. grained, partially recrystallized, silty to sandy limestones (calclutites to calcarenites). Some secondary dolomitization. Very pale orange (slightly dol. portion) to grayish orange for the highly dolomitized section.

Overall slightly chalky to earthy appearance. Not very fossiliferous.

St. Marks Outcrops

LN-1N-1W-30-dbb, Tallahassee Quad
LN-25-1W-17-da-Dismal Sink

Hawthorn Fm.: fine to med. grained gty sand, sand-size phosphite, silt, kaolinite, montmorillonite + attapulgite + sandy, phosphatic ls.

quote fr. Bull 47: "On the geologic map a large portion of the northern part of the county is mapped as Hawthorn Fm. In this area the Microsuwannee Fm. + the Hawthorn Fm. are very similar in lithology, and weathered surfaces are practically indistinguishable."

This area of Hawthorn exposure was arrived at by superimposing the structural contours of the Hawthorn, as determined from samples from water wells + core holes, on a topographic map of the area. Where the generalized contours indicated a fm top at elevations higher than the land surface, the area was mapped as Hawthorn...."

Jackson Bluff Fm.: clayey sands + sandy clays that are very macrofossiliferous (shell beds); lt gray to greenish gray and brown
Occurs only in western Leon County

Miccosukee Fm.: heterogeneous series of clastics; continental sediments of inter-bedded clays, silts, sands + gravels; grayish orange to grayish red, frequently mottled contains laminated to thin-bedded sequences of lt colored clay + reddish orange qz sand + silt clay beds are montm., kaolinite + illite

SP 14 - better description
see
Also
1-29-88 Visited Jackson Bluff ^{with Jon Arthur + Walt Schmidt}
Checked Richard Johnson's description for the "Outcrop Report." Walt + Jon checked greater part of the outcrop than I did. I was not brave enough to climb down slick, muddy cliff face (rope was available - tied to trees next to the dam). Walt generally felt that the description was accurate. Bed breakdowns were so fine that it was necessary to locate a good marker bed + follow RJ's description from there.

exposed in hillside above Miccosukee Fm 7' →
borrow area
exposed in borrow Alum Bluff GP 10' →
area in cliff Hawthorn GP 30' →
exposed below borrow area to left.

M-4774 ("natural bridge")

LN1 lt. grayish orange limestone; some slightly foss. liferous but mostly unfoss.

2S1W S17 6d St. Marks - sampled does not match map loc: ac

LN2 deep, steep sided sink - sand cover, no rock exposed

2S1W S16 ac

M-4775 A-C

LN3 sample L-3-1 15-20' from surface St. Marks

L-3-2 ~12' down

L-3-3 base of sink 30-35'

2S1W 17bb db Accd to map loc

M-4776

LN4 Big Dismal - sample taken ~25' down from land surface weathered, orange, foss. ls. At least 20' of sand, clayey sand cover here.

Sample is from 1st. ls. unit down - Possibly Tenaya P

prob ST mk'd (true)

2S1W 17ab

M-4777

LN-5 Gopher Sink ^{up 40'} ~20' sand over - only sample - St. Marks ^{~15' in place.}
recrystallized ls. ^{map shows pt at SM}
2S 1W 16 bot. ba + ab (on the 1/4 4 line)

M-4778

LN-6 Powerline sink - sampled 2S 1E 21 dc
weathered orange ls.
3 interconnected holes sampled
St. Marks

223-88

LN-7 sand pit - active 1S 2W 1 db
top - clean orange-buff sand
grades down into orange clayey sand @ ~5'. Variable below
that - brown / orange clayey sands
Hawth. → Stockpiles of green clay - must be removed from below section we were able to view (>20 ft)

LN-8 same as LN-7; sand is pretty clean - not enough clay to be Miccosukee.
1N 2W 36 dc

LN-9 Roberts sand pit Clean sand to ~35' Low grade yellow earth beneath that white
1N 2W 35 cc

LN-10 sand pit, same as 9 1N 2W 34 bc

LN-11 River Bluff State Park 1N 3W 33 cc
along boardwalk LN-11-1 M-4779

Micc. orange clay (sampled) underlain by limestone - fossiliferous pinkish orange (sampled also) ^{LN 11-2 M-4780} contains phosphate - looks like Torreyia

roadcut
LN-12 Vause Rd., S of road into park
clean orange sand (2-3' thick)
1N 3W on line betw 533 dd + 34 cc

LN-13 Lewis Hall Landing 1S 3W 6 dc
orange sandy clay - Miccosukee

M-4781

LN-14 "rock bluff" 1S 5W
30 bc a) ^{orange} clayey sand at water level - Micc.
~2 ft up - cleaner sand
30 bc b) shell bed in small ravine - from wh., 2-3 ft thick - channel fill?
- Asini Bluff Top - sample LN-14-1
30 bc c) sand
30 bc d) walked along base of rock bluff (see to 255W top). No exposed rock but perched water table at ~40' (swamp at base of bluff is at 35')

LN15 - Camp Bl. - clean white sand
155W36cd (not a thick exposure)
few ft.

LN16 Stoutamine Landing
Roadcut! up to 10 ft thick
UDSC (5 ft) overlying coarse
orange clayey sand to silty clay
Miccosukee-like 255W10a
wt. clay
approx. on the 1/4 line

LN17 So. of Sweetwater Creek
UDSC roadcut as the river orange
close to as we could get
flooded

Micc. sandy clay
-like 10-15 ft up in elevation

another roadcut - slightly clayey
sand - UDSC 255W14 da
wt. clay
approx. on the 1/4 line

LN18 sand pit - orange clayey sand
UDSC 252W11dc

M-4782 clay pit

LN19 mottled sandy clay - orange, brick red
some burrows. Took sample
UDSC 252W1db

2-25-88

Road Cut

LN20 Cty Rd 59 ^{1.6 mi N of Ferguson Pond}
Miccosukee fm.
Brick red clayey sand 3N3E17dd

LN21 Cty Rd 59 at Ferguson Pond.
No Road cut but soil horizon
has brick red color, clayey
sand texture of last stop.
3N3E20aa

M-4769

LN22 Cty Rd 59 .4 mi So of Ferguson
Pond

Float - dark orange clayey sand
Pebbles of ss - lighter orange
tan color - sampled - only piece
we think was in-place
Miccosukee sandstone?

clayey sand looks like
weathered Miccosukee
3N3E20ca

M-4770

LN23 Road cut SR 59 Micc or UDSC?

sampled mottled clay in road cut ~10 ft
thick - standing in ditch.
at base (in ditch) sand
lense with clay beneath it

- ✓ LN 24 Miccosukee road cut
~ 5 ft thick 3N 3E 29 dd

- ✓ M-4783
LN 25 road cut ~ 15' thick
mottled orange to buck red
clay; as LN 23 - sand
lenses near base of cut,
gg pebbles - sampled.

- ✓ LN 26 Micc. Fm, ~ 4 ft. - inter of
Micc Rd + 142

- ✓ LN 27 mottled sandy clayey -
colors same as previous
~ 10' thick stops but sandier
Micc. Rd ~ 1/2 mi S of S142
2N 3E 8

- ✓ M-4784
LN 28 buck red to orange clayey
sand - still mottled but
not as much as fm. W of
here ~ 10 ft thick road cut
on S line betw 19A & +
sampled
plotted on map
sec 19 ca

- ✓ M-4785
LN 29 ~ 5 ft thick road cut
more mottled again, including
sampled grayish clay - ^{prob.} kaolinite,
Miccosukee

- ✓ LN 30 ~ 6 ft thick road cut
same as 29 - next to
burn pond on Micc. Rd.
2N 2E 525 da

- ✓ M-4786
LN 31 ~ 10 ft thick road cut
interbedded sandy clay +
clayey sand
sampled thick clay bed
at about 4 ft from road
level 2N 2E 251 ac

- ✓ LN 32 ~ 7 ft road cut - at
MLC - buck red - orange clayey
sand 1N 2E 3aa

- ✓ LN 33 heat ramp on Lake Micc., US 90
mottled red-orange clayey sand
Micc. Fm 2N 3E 530 2b

- LN34 2N3E34 cc
Magnolia Rd just N of 90
~15 ft thick Micc. Fm road
cut; brick red clayey sand.
- LN35 Sunray Rd roadcuts ~2 ft
thick, all Micc. Fm. - see
maps for approx. locations
- LN36 Magnolia Rd ~.3 mi N
of Sunray Rd.
red clayey sand
2N3E 27 ac
- LN37 intersection of Magnolia +
Roxo Rd
~2 ft orange clayey sand - Micc.
2N2E22 dc
- LN38 red to orange clayey sand
~2'
- LN39 as above
- M-4787 lighter
LN40 orange less clayey sand
- sampled
Micc. or UO5C?

- LN41 ~4 ft thick road cut
reddish orange clayey sand
- very little clay here.
- Note - ditches all along
Moccasin Gap road - betw
here + Miccosukee have
shown Micc. Fm.
- LN42 orange clayey sand - more
clay - Miccosukee
Centerville Rd at Centerville
Trace (new subdivision) +
vicinity N of Cent. Trace
IN IE 10 dd
- LN43 Miccosukee Fm IN IE 8 dd
- LN44 Thomasville + Maclay Rds
intersection ~4-5' road cut
(not mottled) orange clayey sand (less
clay again) IN IE 5 dd
- LN45 - Micc. Fm - roadside ditch
just S of Foxcroft on
Thomasville Rd. 2N1E33 bb

- LN46 - brick red clayey sand
on City Rd 12 - Miccosukee Fm.
3N1E S12 dld
- LN47 ~8' road cut Micc. Fm.
buck red to orange mottled
clayey sand 3N1E13ba
24.9
- LN48 3N1E23ab ~1/2' Micc. Fm.
on road to boat landing
(L. Iamonia) off City Rd 12
no outcrops at landing.
- LN49 road cut 4-8' thick
orange to buck red clayey
sand; very little clay, not
mottled - Miccosukee Fm.
3N1E15da
- LN50 orange clayey sand; Micc. Fm.
- LN51 "
- LN52 "
- LN53 Meridian Rd ~25' road cut,
buck red clayey sand
Micc. Fm. 3N1W 35bb

- LN54 orange clayey sand 2N1W1ae
- LN55 orange mottled clayey sand
more clay, coarser sand
2N1W STdc
- LP54 Orchard Pond Rd. - virtually
continuous road cut of Micc.
Fm. (up to 1/2 mi E of Old Bain-
bridge at least)
- M-9771
- LN57 lt brown to lt orange
sand / sandstone - sampled
4.2 2N1W 9bd
- LN58 orange sand ~7' road cut
Orchard Pond and Old Bain-
bridge 2N1W8cd
- LN59 mottled orange-red clayey
sand; more clay again
Miccosukee - Old Bainbridge Rd
- LN60 mottled gray / orange sandy
clay. Old Bainbridge Rd.
1N1W 9aa

- LN61 Mahan Rd
~30' Miccosukee Fm
dark orange clayey sand
IN IE 31da
- LN61' Buck Lake Rd - Miccosukee Fm
IN IE 23dd
- LN62 same IN 2E 19dc
- LN63 Seminole Fish Hatchery
Miccosukee Fm IN 2E 21d
- LN64 Williams Rd IS 2E 8ca
Miccosukee Fm
- LN65 Old St Aug. Rd IS 2E 7dd
Micc. Fm
- LN66 Old St. Aug. Rd. IS 2E 7dd
Micc. Fm
- LN67 Old St Aug Rd IS 2E 7bc
Micc. Fm.
- LN 68 " IS IE 12ca
- LN69 " IS IE 11db
- LN 70 " IS IE 11ca
- LN 71 " IS IE 10ab

M-4772

- LN 72 Old St Aug Rd, E of Koger
Center, ~.25 mi of road cut
from 5-10' thick
extremely variable lith.
on both sides of road
brick red sand
mottled gray + orange clayey
sand, sandstone
orange clayey sand
Miccosukee Fm. IS IE 4cd
- M-4773 LN 73 Tharpe St., just N of Ocala Rd.
-across from back entrance
to San Luis Baptisto Park
Miccosukee Fm.
orange-brick red sandstone;
limonite (sometimes in laminae)
also fairly clean white sandstone
nodules - non-phosphatic (tested
negative in phosphate indicator)
IN IW 22dc

Tallahassee outcrops (road cuts) of
Miccosukee Fm:

- 74. Miccosukee Rd, across from Leav. HS. IN IE 31da
- 75. Hawthorn to Briart IN IE 21a
- 76. Oak Hill to -1 block passed
Sandcastle IN IE 21dc
- 77. Micc. Hills to Day St IN IE 22a

took
several
samples

78. Fleischman Rd from Thomas Butler
to Miccosukee Rd. INIE 22ba

79. Meridian Rd across from Lincoln H.S.

80. Mission + Ocala INIW 27cd INIW 36bb

81. Centerville Rd, just north of 7th (across
from TMRMC) INIE 30db

82. Centerville across from Physicians
Rd. INIE 30bb

83. Bradford Rd + Bradford Ct
intersection - vacant lot at NW
corner INIE 19ac

84. Bradford Rd. at Londontown INIE 19ac

85. Meridian + Locke INIE 24db

86. Meridian + John Knox Rd
INIE 24bb



87. Tallahassee Mall at 1st entrance going
west on John Knox, east of Brown
Dorby INIE 24ba

M-4788 a, b

88. INIW 30 SW of Tharpe + Capital
Circle intersection

~45' of Miccosukee - sample 88-1
at grade - green + orange mottled
sandy clay + clay - sample 88-2

89. SE of Ochlocknee R on 90 IN 2N 23da
dark orange clayey sand
may be slump material

90. ~12' outcrop on W side of trailer
park - W of Gum Swamp INIW 29da
~10' mottled gray-orange sandy clay
overlying orange clayey sand
Micc. Fm

M-4789 A-E
91. newly excavated site (for
construction) INIW 29ba

6-8' of mottled sandy clay - lt
gray to orange Micc. Fm
overlying yellow-green mottled
clay (~6' - obscured by talus sp.)
overlying fairly clean sand
- took 5 samples, labeled by distance
from top of cut

4790 A, B
92. canal W of Godby H.S., on E side
of Ocala INIW 27ab

sampled base of canal ~25'
How? below road (Ocala) - pure gray clay
Micc. at road surface - orange clayey sd

93. roadside ditch - Tharpe St betw Ocala +
Micc. Fm High
INIW 22dd

94 Old Bainbridge + Tharpe IN1W 26bb
Micc. Fm ~2ft. roadcut

95. Millers Landing Rd. - outcrop of
Micc. Fm along entire road from
Meridian to boat ramp.

At landing - dark orange clayey
sand. 2NIW from 25dd to 27cc
(going W)
beautiful canopy road

96. ~1-2' road cut - ^{fairly} clean ^{slightly} fine sand
white → lt. tan IN3E 17bd

M-4795

97. Bird Sink, Still Creek IN3E 17cb
sink - fine gray clayey sand 97-1
upstream in creek - mottled orange-
gray sandy clay - Micc. 97-2

98. 1S2E27da lt orange med. sand

(Tram Rd) M-4791

99. Cty Rd 259 - orange f-m sand -
slightly clayey - sampled
1S2E 27db

100. Old Plank Rd 1S2E 27ac
orange f-m sand (~3')

Note: 96 + 98-102, sd. exposures
all < 20' -- need well data in this area

Big Lake → Capital C.

Tram Rd - Woodville quad - fs

~5'-10' road cuts common,
mostly white sand (fine)

KC - Micc M4792

101 - .10' roadcut on Tram road
m-f lt orange sand + medium
orange clayey sd - sampled
1S1E 25db

102 - orange sand again
~5' roadcut 1S1E 28ab

103 - Old St. Augustine + Hendrix Rd
- Micc. roadcuts esp. along
both sides of Hendrix Rd
1S1E 4dc

104 - Micc. Fm IN1E 3ldc
Old St. Aug. Rd.

M-4793

105 - Myers Park creek bed - took
several samples

mottled orange-brown clay
+ gray sandy clay -- similar to canal
@ Godby H.S. IN1E 3ld

Micc. Fm exposed in upper walls of
creek cuts -- clay in creek beds may or may
not be Micc or Hawth.

106 Micc Fm So Adams at IAHM 1S1W1ad

107 " ditch on So Adams
N. of Orange 1S1W12ca

Scott
of
samples
made
of
pen
need
to
show
samples

- 108 Pit N of Capital Circle
 ~1/2 mi W of Inters. w. 61
 6' orange med sand overlain
 by ~3' white med sand
 151W 23 bd

M4794

- 109 Munson Slough - Capital Circle
 finely layered sands of
 varying color white-gray-
 orange brown sampled
 151W 22 bb

- 110 wt to H orange to dark orange
 sd + clayey sd. 151W 9 ba
 slightly sand pit

- 111 Ocala Rd + Honey Suckle 1N1W 34 cb
 Miccosukee Fm

- 112 Roadside ditches on White Drive
 betw Tennessee St + Mission Rd
 1N1W 27 cc

NOTE: Mission Rd from Ocala to
 Hartsfield - many outcrops
 of Mice. Fm in road cuts
 + roadside ditches.

- 113 Centerville Rd. 2N1E 36 cc
 Miccosukee Fm

- 114 Centerville Rd 1N1E 2ad
 Mice. Fm

- 115 Centerville Rd 1N1E 15 ca
 Mice Fm

- 116 Centerville Rd 1N1E 16 bd
 Mice Fm

Meridian Road outcrops (roadcuts)
 of Miccosukee Fm: note - Range location
 indicates E or W side of Rd

- 117 Willis Rd. 1N1E + 1W 24 bb + 19 aa

- 118 Meridian Pl 1N1E 18 cc

- 119 just so of Henderson Rd. 1N1W 13 bd

- 120 at Henderson Rd 1N1E 18 ca

- 121 betw Piedmont + Live Oak Plantation
 Rds 1N1E 18 ca

- 122 at El Destrado 1N1E 7 aa

- 123 So. of Branch Rd 1N1W 1 dd

- 124 fr. Rhoden Core Rd to just N of
 Maclay Rd 1N1W + 1E 1 ba + 6 aa
 to 2N1W + 1E 36 dd + 31 cc

- 125 N of Maclay School 2N1W 36 bd

- 126 at Forest Meadows
 Country Club 2N1W 36 bb
 2N1E 31 aa

Tallahassee quad sheet

Lake Jackson quad

- ↑ Lake Jackson quad
- 127 N of Millers Landing Rd
2N 1W 25dd
1E 30cc
- 128 So of rd. to Lake Elizabeth
2N 1W 25 bd
1E 30 ac
- 129 ~.2 mi So of Ox Bottom Rd to
just N of Ox Bottom 2N 1W 25b
1E 30a
- 130 on Ox Bottom Rd from
Meridian to ~ 0.2 mi E of
Meridian 2N 1E 30 aa → ba
- 131 from Paramount Estates to
Spring Pond - series of 3 roadcuts
2N 1W 24 bb to 2N 1E 18ac
1E 19 aa
- 132 next to Holley Pond 2N 1E 18ca
- 133 So of Cedar Hill Rd 2N 1E 18aa
- 134 from ~.5 mi So of Bannerman
Rd to Bannerman Rd
2N 1W 12d
(mostly)
- Bannerman Rd outcrops of
Miccosukee Fm
- 135 Meridian + Bannerman 2N 1W 12bb
- 136 at Blocker 2N 1E 7 ac
- 137 E of Blocker Circle 2N 1E 7ad
- 138 at Blue Smoke Drive 2N 1E 7bd
- 139 W of Bull Headley Rd. 2N 1E 8bc
- ↓

Miccosukee Fm outcrops,
Bradfordville quad:

- 140 Bannerman Rd, NW of Teksta
Drive (Killlearn Lakes) 2N 1E 9cc
- 141 Bradfordville Rd, E of Thomasville Rd
2N 1E 22 bb
- 142 Bradfordville Rd, just W of Velda Dairy
Rd 2N 1E 22 bb
- 143 Bradfordville Rd, E of Anglewood Ln
2N 1E 23 cb
- 144 Bradfordville Rd, S of Centerville
2N on Range line betw 1+2E, betw 24dd
+ 19cc
- 145 Roberts Rd, just E of Centerville Rd
2N 2E 30cc
- 146 Crump Rd S of Miccosukee Rd 1N 2E 4db
- 147 Centerville Rd. 2N 2E 20ac
- 148 " " 2N 2E 17dd
- 149 " " 2N 2E 9cd

Miccosukee quad

- 150 Moccasin Gap Rd - Micc Fm exposed
in roadside ditches, ~1.3 mile
stretch betw. Sanders Hammock Pond
+ Miccosukee Cemetery, from
2N 2E 1dd to 2N 3E 6dd, along SO.
section lines of S1 2N 2E + S6 2N 3E

- LN151 Lafayette quad - orange clayey sand in roadside ditches IN 2E Sections 28 + 33 - on E section lines. prob. Micc Fm but we did not stop & check here

- LN152 Lloyd quad - Micc Fm. Chaus Cross Rd., ~1.4 mi so of 27 15 2E 15 bb.

WELL LOCATIONS TO CHECK:

W936	25 2E 15 cb	0-40' sand	
		40-	Suwannee
W6059	25 1E 8	0-10' sand	drilled up to 50'
	Woodville Comm Center	10'-	St Marks
	17 samples 10-183'		
W13950	25 1E 16 bba	0-10' white sand	up to 30'
	20 samples 0-200'	10'-	St Marks
W14205	25 1E 17 cbb	0-13' sand	
	samples 0-130'	13'-at least 30'	St. Mark's
W13204	25 1W 9d	0-20' sand	
	6 samples 20-80'	20-80'	St. Marks
W13005	25 1W 7ab	0-10' sand	
	4 samples 0-40'	10-40'	St Marks

W15244	25 2W 15c	0-90 sand	
	14 samples	90-150 (T.D.)	Suwannee
W13412	25 5W 12b	0-50 sand	
	on SR 375	50-53 3 ss + sand	Mh
	6.5 mi S of SR 20	55-60 caliche cnt	
	E side of rd	60-90 sand	
	29 samples 0-150'	90-150 N.S.	
W6145	3N 1E 20cen	0-20 orange silty sand	
	53 samples 5'-270'	to pale orange slightly silty sand - Micc. Fm	
W4026	3N 1E 32 abcc	0-16 orange clayey sand	
	24 samples 4'-265'	16-31 clean white sand	Micc.
		31-50 wt. to pale orange sand, some poorly cons.	
W5704	3N 2E 14d	0-10 gray to brown sd.	
	28 samples 5'-145'	10-60 wt. to pale orange sd.	
		60-100' Micc. Fm	
		100-145' Suwannee	
W5270	3N 2E 28ba	1-5 gray sd.	
	51 samples 1'-253'	5- pale to med. orange sand + poorly cons. ss	
		Micc.	
W3647	3N 2E 30dc	2-41' very pale orange sand	
	8 samples 2'-41'	some poorly consolidated similar to Micc. in 4026	
W13291	3N 2E 35	0-70 orange (mostly) + pale + orange silty sand	
	16 samples 0-170'	70-170 Suwannee	Tm
W11986	1N 3W 34	Driller's log 0-30' sand	
		30-50 mud	
		50-60' rock	
my description:			
	0-10 very pale orange sand	Description by F. San Juan	0-10' sand
			10-20 clay
	10-20 orange clayey sand - Mm		20-30 NS
	20-30 N.S.		30-90 ls.
	30- Torrey - Mh		

LN-14 revisited by RJ, April 16, 1988
rock bluff

RJ has
excellent
dirt
samples
JA collected
2 samples

w.l. dropped by ~15'

7' sand

8' Jackson Bluff

6' Hawthorn

by JA + me
4-22-88
← agreed

W-1892 Natural Bridge 25 2E 29 center

1-5' white sand

5-165 Sawannee (130-165 partially dolom.)

W-4638 IN/W 30a

Green Book 0-20' Micc

W-6302 2N3E 11C

eler. 120'

Green Book 0-75 Micc. 75-250 O_s

W-11993 1S 2E 9b

0-40 micc
Green Book 40- Hawthorn

W-11760 IN/W 6da

Green Book 0-20' T_m or M_h ?

20- M_h

need to check samples

Cores

W6599 1S4W 521aa

eler. 61'

0-5' M_jb

120-352 M_{sm}

5-120' M_h

352-380 M_{ch}

380-525 O_s

W6890 1S4W 11cdB

eler. 81'

0-6 UDS

169-370 M_{ch}

6-169 M_h

370-422 O_s

W6900 1N 1W 2

eler. 85'

0-9 UDS

9-35 T_m

35-47 M_h

W6902 1N 1W 3a

eler. 80'

0-9 UDS

75-131 M_{sm}

9-50.5 T_m

131-158 O_s

50.5-75 M_h

W6937 2N3E 8aa

eler. 245

0-62.5 T_m

154-237.5? M_{sm}

62.5-154 M_h

237.5-247.5 O_s

W6998 2N 2E 8 da

eler. 237'

0-55 T_m

142.5-218 M_{sm}

55-142.5 M_h

218-227 O_s

W6999 1S3W 6aa

eler. 85

0-20 UDS

38-184 M_h

20-29 T_m

184-204 M_{sm}

29-38 M_jb

W7180 2N1W 2ad elev. 279'

0-73.5 T_m

73.5-152 M_h

152-270 M_{sm}

270-302 O_s

W7181 2N1E 9bd

0-62.5 T_m

62.5-146 M_h

W7523 2S2W 18aa elev. 87'

0-49 UDSC

49-62 M_jb

W7524 2S2W 6da elev. 78'

0-52 UDSC

52-75 M_jb

75-109 M_h

109-125 M_{chipola}

125-211.5 M_{sm}

W7525 1S2W 7cc elev. 121'

0-50 UDSC

50-80 M_h

80-124 M_{sm}

W7526 1S2W 19cc elev. 122'

0-77 UDS

77-90 M_h

90-120 M_{sm}

W7527 1N2W 32bc elev. 165

0-41 UDS

41-61 T_m

61-124 M_h

124-150 M_{sm}

W7536 1S3W 1ad

0-56 UDSC

56-215 M_h

Personal communication TS

Porter Sinkhole, Lake Jackson

~5' muck overlying Hawthorn

Wagner, 1984 - Porter Sink elev.
is 61' MSL. places Hawthorn
at 56' MSL

Franklin County

Pubs: B58

MS 84

OFR 8

Cores: 7574

14781

14799

14844

14876

14890

Topo Sheets

Beverly

Cape St. George

Carrabelle

Dog Island

Forbes Island

Fort Cadesden

Goose Island

Green Point

Indian River

Jackson Point

Lake Wimico

Lighthouse Point

McIntyre

New Inlet

Pickett Bay

St Teresa Beach

Sugar Hill

Tates Hell Swamp

West Pass

Also (across N edge
of County)

Owens Bridge

Sanborn

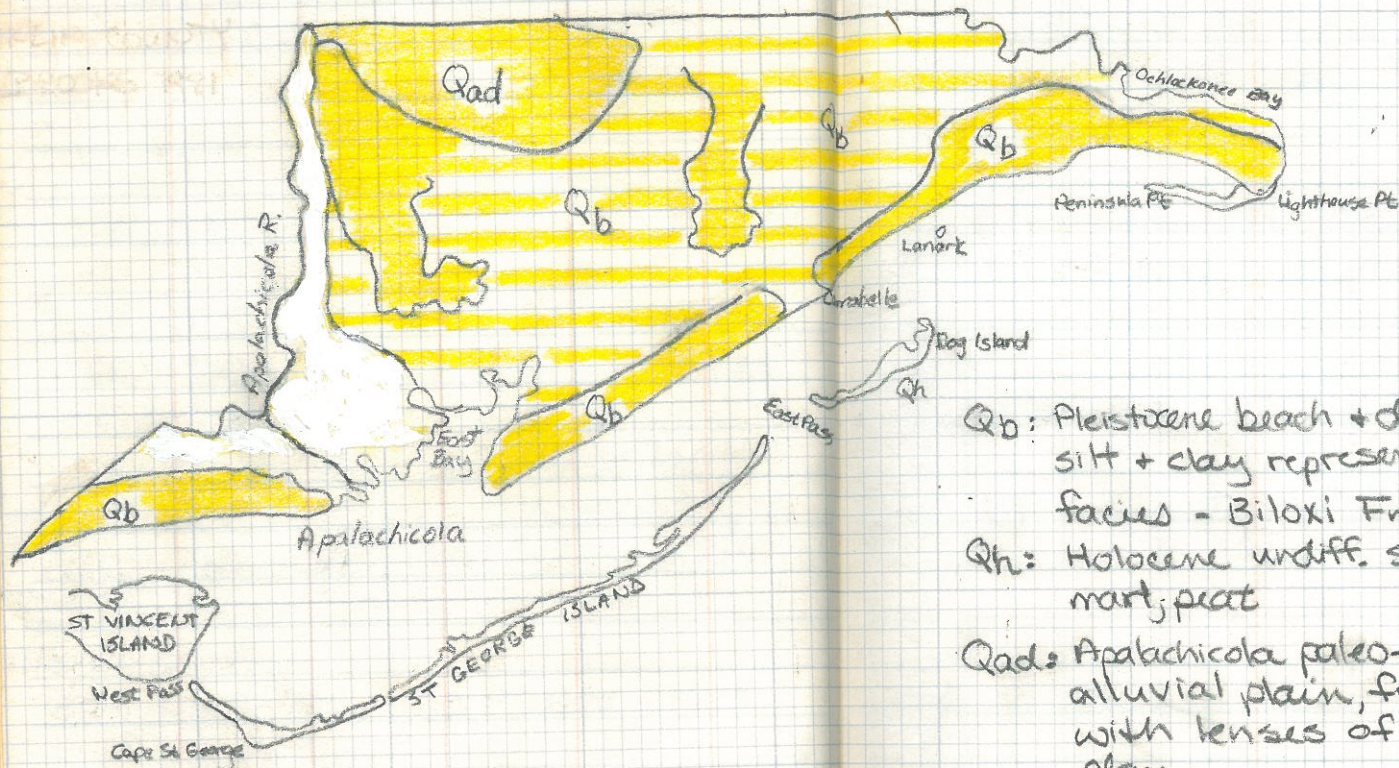
Sumatra

Thousand Yard
BayMS18: Franklin County is mapped
entirely as UDSRecent + Pleistocene: "several
lower marine and estuarine
terrace deposits

CoRES	location	elev	
W 7574	956W 29 da	5'	0-21 UDS
			21-30 clay
W 14781	757W 17 dba	9'	0-72 UDS
14799	755W 18 d	12'	0-31 UDS
			31-34.5 JB
14844	655W 13 cc	20'	0-19 UDS
			19-27 Sdy clay
14876	654W 1 cd	10'	0-12 UDS
			12-26 Intracoastal Fm
			26-35 dolosilt
14890	656W 9 c	28'	0-22 UDS

↓
Intracoastal Fm: Poorly indurated,
light olive-gray, clayey, qtz sandy,
phosphatic, microfossiliferous, bio-
calcareous

FRANKLIN COUNTY: H.K. BROOKS 1981



Qb: Pleistocene beach + dune sand;
silt + clay representing estuarine
facies - Biloxi Fm

Qh: Holocene undiff. sand, shell, clay,
mort, peat

Qad: Apalachicola paleo-auspate delta +
alluvial plain, fine sand + silt
with lenses of gravel and
clay.

FRI Ochlockonee Bay Bridge - just
inside Franklin Cty on Highway
US 98 SW corner of bridge
quartz sand at surface
sampled, some heavy minerals

FR2 Near Alligator Pt (Lighthouse Pt.)
fine quartz sand, some heavy minerals
scattered shells
sampled
road washed out beyond this
pt.
stranded tree stumps - obviously
erosional coast
65 W 33

Cty Rd. 370
Lighthouse Pt to Peninsula Pt - white
qtz sandy
beaches

Boat to Dog Island - Ruby B 697-3434

Schedule

	Lv Canaville	Lv Island	
M	11:00	12:00	
Th	11:00	12:00	\$8.00/person
Fr.	11:00	12:00	
Sat	11:00	12:00	
	3:00	5:00	

Ochlockonee River State Park - Wakulla
County, just N. of county line
boat ramp - sand at surface, no
real exposure
picnic area - ~3ft bluff - tan sand

County Assignments

Dixie	Lloyd/Scott	Brevard	Johnson/Lloyd
Lafayette	Lloyd/Campbell	Flagler	Lane/Lloyd
Sauwannee	Lloyd/Campbell		
St. Johns	Lloyd/Lane		



SINCE 1882

