

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

**HYDROLOGIC AND GEOLOGIC DATA FROM
THE UPPER EAST COAST PLANNING AREA,
SOUTHEAST FLORIDA**

OPEN-FILE REPORT 79-1543

Prepared in cooperation with the
SOUTH FLORIDA WATER MANAGEMENT DISTRICT



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By Wesley L. Miller

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Tallahassee, Florida

1979

UNITED STATES DEPARTMENT OF THE INTERIOR

CECIL D. ANDRUS, SECRETARY

GEOLOGICAL SURVEY

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By Wesley L. Miller

ABSTRACT

The Upper East Coast Planning Area, one of five designated planning areas in the South Florida Water Management District, consists of St. Lucie, Martin, and eastern Okeechobee Counties. Existing hydrologic and geologic data have been compiled as a base for additional investigations to determine the water-bearing characteristics of the shallow aquifer system in the area. These data include lithologic logs from 51 wells in excess of 90 feet in depth, periodic ground-water levels from 100 wells, and ground-water quality data from 93 wells.

All data tabulated in this report were collected by the U.S. Geological Survey and the South Florida Water Management District.

INTRODUCTION

The Upper East Coast Planning Area was designated in 1977 by the South Florida Water Management District to promote conservation, development, and protection of the water resources in the planning area. The planning area (fig. 1) consists of St. Lucie, Martin, and eastern Okeechobee Counties.

In 1977 the U.S. Geological Survey and the South Florida Water Management District began a cooperative program to define the hydrologic and geologic characteristics of the shallow aquifer system in the planning area. In the first stage of that program, data from the files of both agencies were compiled to form a data base for the Upper East Coast Planning Area. The purpose of this report is to present that data. The data include: (1) lithologic logs, (2) ground-water levels, and (3) ground-water quality data.

For those readers who may prefer to use metric rather than inch-pound units, conversion factors for terms used in this report are:

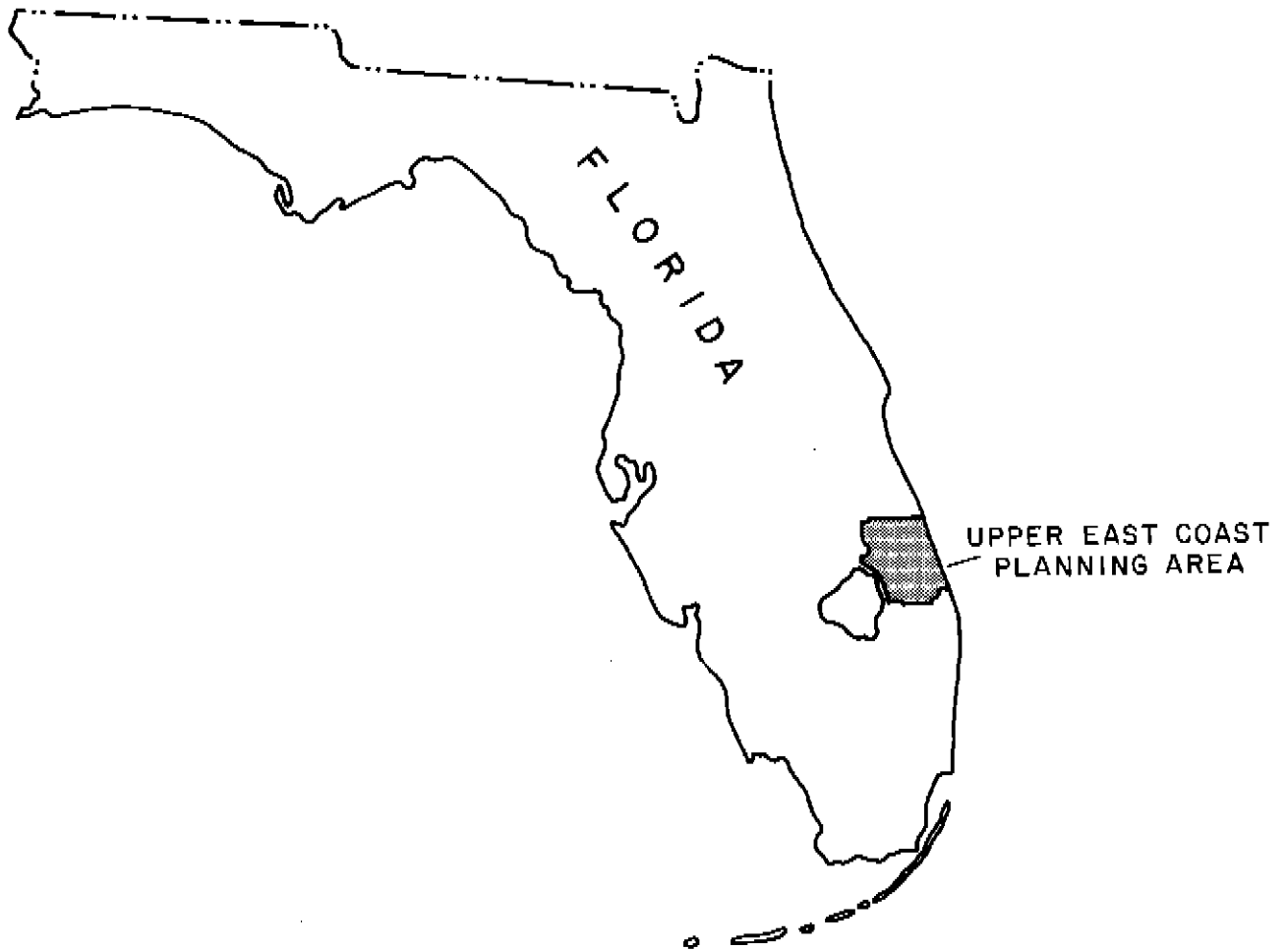


Figure 1.--Location of Upper East Coast Planning Area

<u>Multiply inch-pound unit</u>	<u>By</u>	<u>To obtain metric (SI) unit</u>
mile (mi)	1.609	kilometer (km)
foot (ft)	.3048	meter (m)
inch (in)	2.54	centimeter (cm)
mean sea level (msl)	-----	National Geodetic Vertical Datum of 1929 (NGVD of 1929)

WELL CONSTRUCTION DATA

Well construction data for 162 wells (fig. 2) in the Upper East Coast Planning Area are given in table 1. Well number, ownership, drilling date, total well depth, depth cased, well diameter, and types of logs obtained are listed for each well. If known, the altitude of land surface, relative to the National Geodetic Vertical Datum of 1929 (NGVD) at the wells, is given.

Each well is identified by two numbering systems--the local well number, and a unique identification number. The local well number (for example, SL-173) consists of a one or two letter prefix and a sequence number. In St. Lucie and Martin Counties the U.S. Geological Survey wells have a "SL" or "M" prefix, respectively, while all South Florida Water Management District wells have a "PG" prefix. Although this system is convenient to use, the numbers are not necessarily unique since the well numbers could inadvertently be duplicated in other areas.

The unique identification numbers are based on the grid system of latitude and longitude. These numbers consist of 15 digits and provide the geographic locations of the wells. The first six digits denote degrees, minutes, and seconds of longitude. The next seven digits denote degrees, minutes, and seconds of latitude. The last two digits are a sequential number for sites within a 1 second grid. For example, if the latitude-longitude coordinates for two sites are the same, sequential numbers "01, 02" are assigned to give each site a unique number. This numbering system is used for data storage as well as site location.

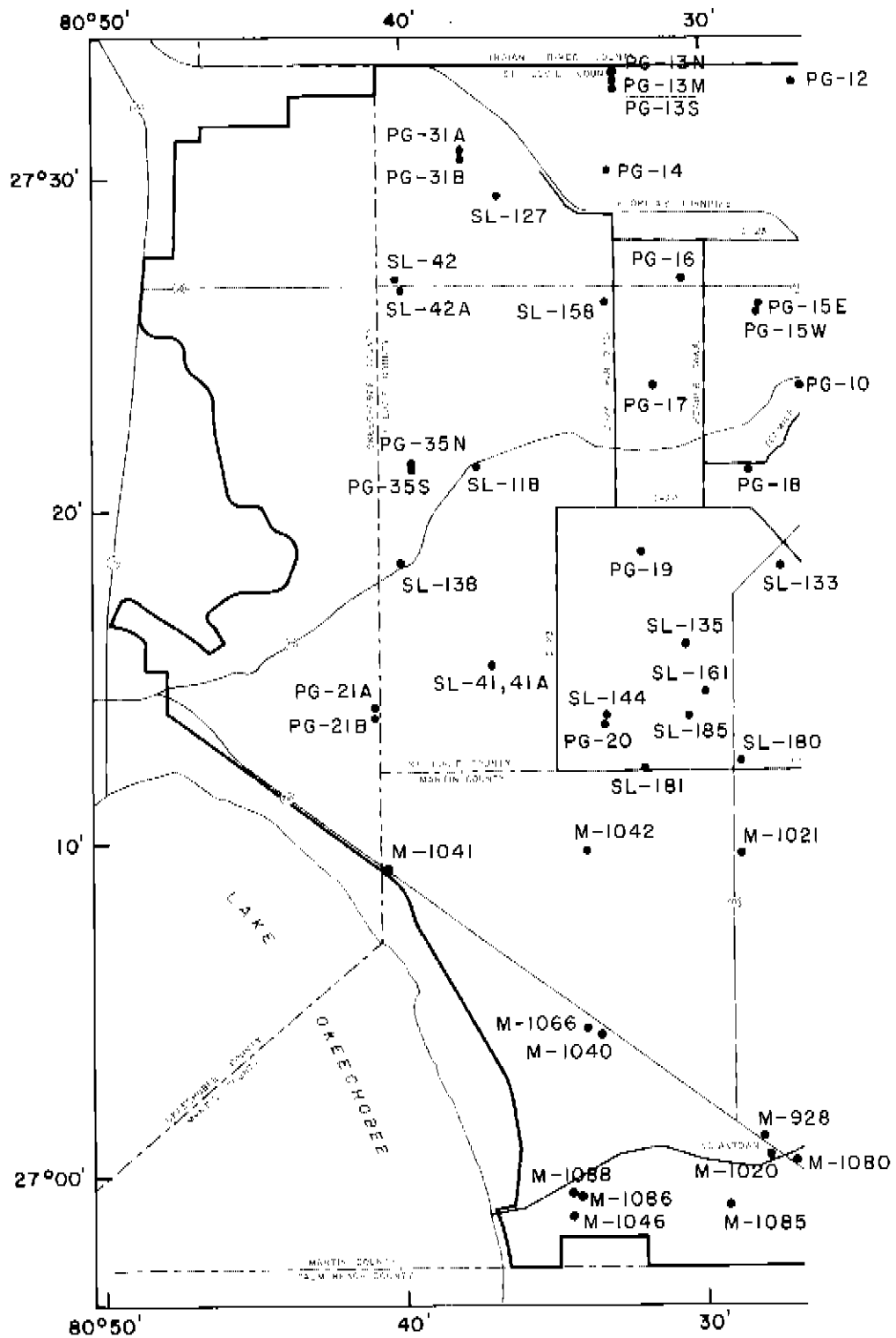


Figure 2.—Well locations in the Upper East Coast Planning Area

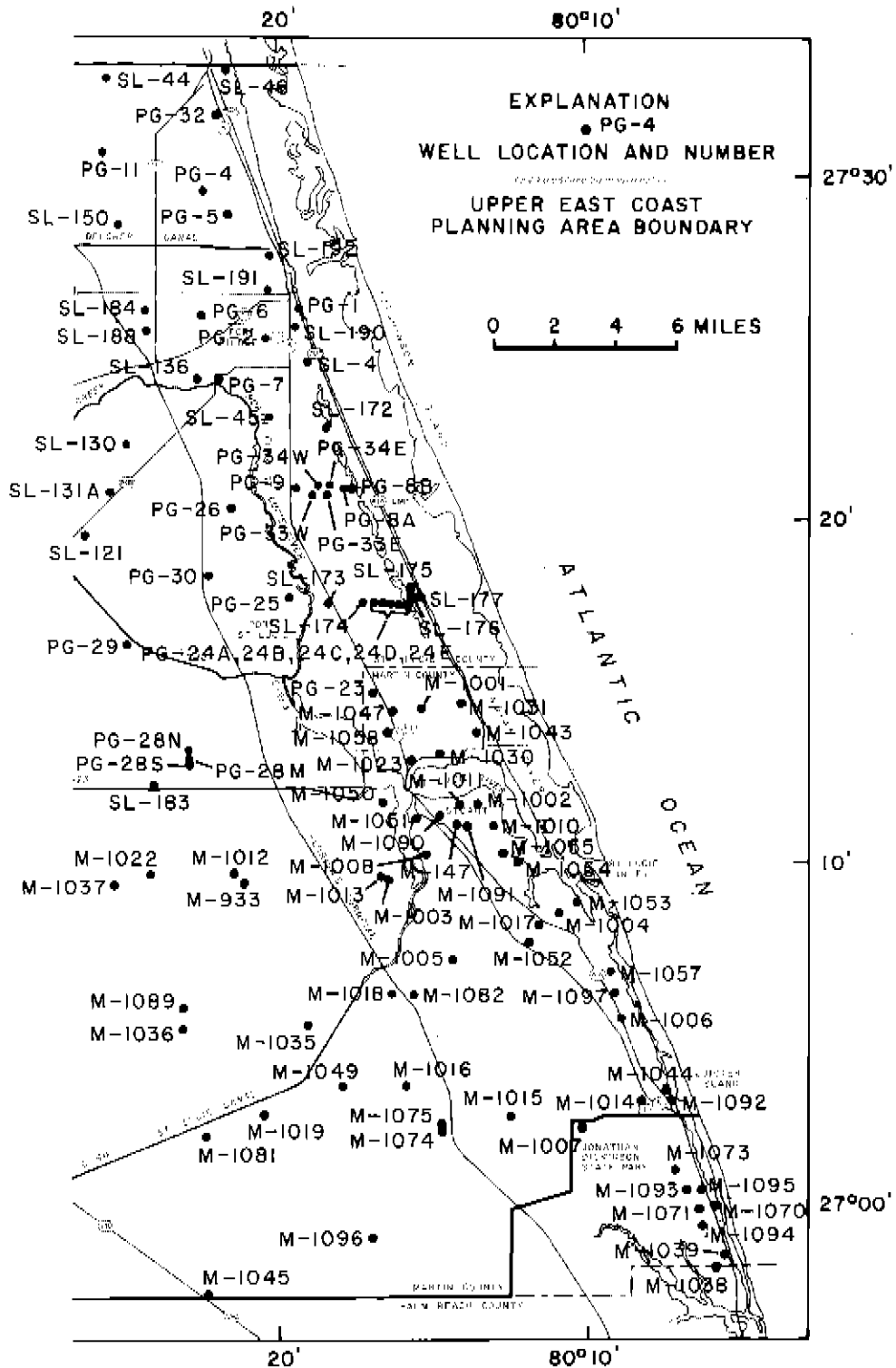


Figure 2.—Well locations in the Upper East Coast Planning Area (Cont'd)

Table 1.--Well construction data from the Upper East Coast Planning Area

Local well number	Identification number	Well owner	Date drilled (year)	Well depth (feet)	Depth cased (feet)	Well diameter (inches)	Date of land surface above NGVD (feet)	Litho-logic log	Geo-physical log
SL-4	272507080190601	USGS	1944	133	130	2.50	27.09	X	
SL-41	271540080370601	USGS	1950	17	13	6.00	28.71		
SL-41A	271540080370801	Bluefield Cattle Company	1962	60	60	2.00	-		
SL-42	272654080401601	USGS	1950	18	13	6.00	27.79		
SL-42A	272650080401401	USGS	1951	23	12	1.50	-		
SL-44	273304080255101	Mr. McDonald	1951	691	135		20.11	X	
SL-45	272306080202001	R. E. Lee	1951	720	124	3.00	-	X	
SL-48	273323080214201	M. Dolenick	1951	684	134	6.00	-	X	X
SL-99	272257080214801	USGS	1962	60	50	2.00	-		
SL-118	272134080373101	R. Teague	-	18	17	1.00	28.59		
SL-121	272021080255201	USGS	1967	12	12	4.00	28.17		
SL-127	273034080374301	USGS	1967	12	12	4.00	27.84		
SL-130	272225080252301	USGS	1967	15	13	1.25	23.72		
SL-131A	272135080243201	USGS	1975	20	20	1.50	23.09		
SL-133	271742080270801	USGS	1967	15	13	1.25	25.32		
SL-135	271610080302201	USGS	1967	14	12	1.25	26.70		

Table 1.--Well construction data from the Upper East Coast Planning Area (Cont'd)

Local well number	Identification number	Well owner	Date drilled (year)	Well depth (feet)	Depth cased (feet)	Well diameter (inches)	Date of land surface above NGVD (feet)	Litho-logic log	Geo-physical log
SL-136	272425080223301	USGS	1967	14	12	1.25			
SL-138	271837080394201	USGS	1967	14	12	1.25	36.87		
SL-144	271359080330301	USGS	1967	14	12	1.25	25.78		
SL-150	272911080251301	USGS	1967	14	12	1.25	20.04		
SL-158	272641080340401	USGS	1968	43	41	2.0	22.59		
SL-161	271448080295501	USGS	1968	22	20	2.0	27.23		
SL-172	272315080183401	USGS	1974	30	26	4.0	-	X	X
SL-173	271755080181901	USGS	1974	162	47	2.0	9.94	X	X
SL-174	271754080170601	USGS	1974	30	26	2.0	18.42	X	X
SL-175	271755080153001	USGS	1974	200	68	4.0	23.00	X	X
SL-176	271755080153002	USGS	1974	30	26	4.0	23.00	X	X
SL-177	271755080152201	USGS	1974	202	145	2.0	-	X	X
SL-180	271228080285301	USGS	1976	24	24	2.0	29.76		
SL-181	271222080312101	USGS	1976	24	24	2.0	25.97		
SL-182	271221080240001	USGS	1976	24	24	2.0	-		
SL-183	271910080342601	USGS	1976	24	24	2.0	25.11		
SL-184	272613080242801	USGS	1976	24	24	2.0	20.74		

Table 1.--Well construction data from the Upper East Coast Planning Area (Cont'd)

Local well number	Identification number	Well owner	Date drilled (year)	Well depth (feet)	Depth cased (feet)	Well diameter (inches)	Date of land surface above NGVD (feet)	Litho-logic log	Geo-physical log
SL-185	271413080311201	USGS	1976	118	113	4.0	-	X	
SL-186	271413080311202	McCarty Reach	1975	120	110	2.0	-		
SL-187	272658080210101	Ft. Pierce	-	-	-	-			
SL-188	272614080242901	USGS	1976	118	117	4.0	-	X	
SL-189	271755080154201	USGS	1976	20	20	2.0	-		
SL-190	272618080192801	USGS	1977	148	148	2.0	-	X	X
SL-191	272703080194801	USGS	1977	133	133	2.0	-	X	X
SL-192	272806080201801	USGS	1977	118	118	2.0	-	X	X

Table 1.--Well construction data from the Upper East Coast Planning Area (Cont'd)

Local well number	Identification number	Well owner	Date drilled (year)	Well depth (feet)	Depth cased (feet)	Well diameter (inches)	Date of land surface above NGVD (feet)	Litho-logic log	Geo-physical log
M-147	271012080141201	USGS	1950	74	73	6.0	13.64		
M-928	270124080280101	USGS	1957	11	10	6.0	36.75		
M-933	270941080210301	USGS	1957	15	14	6.0	26.01		
M-1001	271444080151401	USGS	1973	17	17	6.0	-		
M-1002	27114708013201	USGS	1973	17	17	6.0	-		
M-1003	270940080155701	USGS	1973	17	17	6.0	-		
M-1004	270835080105801	USGS	1973	17	17	6.0	-		
M-1005	270718080141201	USGS	1973	17	17	6.0	-		
M-1006	270526080090901	USGS	1973	17	17	6.0	-		
M-1007	270209080095701	USGS	1973	17	17	6.0	-		
M-1008	271031080150901	USGS	1974	139	-	2.0	-		
M-1010	271109080125501	USGS	1973	126	-	2.0	-		
M-1011	271148080141201	USGS	1973	128	-	2.0	-		
M-1012	270942080210601	USGS	1974	240	-	-	-	X	
M-1013	270938080161101	USGS	1974	200	-	-	-	X	X
M-1014	27031508080501	USGS	1974	340	280	-	-	X	X
M-1015	270238080122401	USGS	1974	240	-	-	-	X	X
M-1016	270331080154801	USGS	1974	240	-	2.0	-	X	X

Table 1.--Well construction data from the Upper East Coast Planning Area (Cont'd)

Local well number	Identification number	Well owner	Date drilled (year)	Well depth (feet)	Depth cased (feet)	Well diameter (inches)	Date of land surface above NGVD (feet)	Litho-logic log	Geo-physical log
M-1017	270801080122501	USGS	1974	240	-	2.0	-	X	X
M-1018	270615080155601	USGS	1974	200	-	2.0	-	X	X
M-1019	270255080205501	USGS	1974	240	-	2.0	-	X	X
M-1020	270058080173901	USGS	1974	200	-	-	-	X	X
M-1021	270943080295301	USGS	1974	240	-	-	-	X	X
M-1022	270943080240201	USGS	1974	240	-	-	-	X	X
M-1023	271309080151501	USGS	1974	240	-	2.0	-	X	X
M-1030	271322080143501	USGS	1974	180	110	2.0	-	X	
M-1031	2714420801418	USGS	1974	30	26	2.0	-	X	
M-1035	270518080190901	USGS	1975	24	19	2.0	25.43		
M-1036	270545080230301	USGS	1975	24	19	2.0	33.91		
M-1037	270934080250401	USGS	1975	-	-	-	32.40		
M-1038	265823080054701	USGS	1975	200	139	2.0	-	X	
M-1039	265822080052401	USGS	1975	180	123	2.0	-	X	
M-1040	270441080332401	USGS	1975	180	0	6.0	-	X	X
M-1041	270931080403801	USGS	1974	220	21	2.0	26.95	X	X
M-1042	270951080335501	USGS	1974	180	46	4.0	37.14	X	

Table 1.--Well construction data from the Upper East Coast Planning Area (Cont'd)

Local well number	Identification number	Well owner	Date drilled (year)	Well depth (feet)	Depth cased (feet)	Well diameter (inches)	Date of land surface above NGVD (feet)	Litho-logic log	Geo-physical log
M-1043	271353080132601	USGS	1974	220	152	2.0	-	X	X
M-1044	270320080073301	USGS	1974	200	163	2.0	-	X	X
M-1045	265731080222701	USGS	1974	23	23	2.0	25.74		
M-1046	265903080340801	USGS	1974	15	15	2.0	25.91		
M-1047	271441080162101	USGS	1974	30	26	2.0	-	X	
M-1049	270331080182201	USGS	1974	80	68	2.0	22.92	X	
M-1050	271147080163901	USGS	1974	182	-	2.0	-	X	X
M-1051	271019080155101	USGS	1974	162	110	2.0	-	X	X
M-1052	270820080111901	USGS	1974	162	123	2.0	-	X	X
M-1053	270853080101401	USGS	1974	202	82	2.0	-	X	X
M-1054	270947080114401	USGS	1974	120	70	2.0	-	X	
M-1055	271018080125101	USGS	1974	100	91	2.0	-	X	
M-1057	270543080084701	USGS	1974	75	69	2.0	-	X	
M-1058	271358080160101	USGS	1974	30	26	2.0	-	X	
M-1066	270441080332401	USGS	1975	30	25	2.0	34.37		
M-1070	270012080050101	USGS	1975	310	120	2.0	-	X	X
M-1071	270002080063201	USGS	1975	160	118	2.0	-	X	X

Table 1.--Well construction data from the Upper East Coast Planning Area (Cont'd)

Local well number	Identification number	Well owner	Date drilled (year)	Well depth (feet)	Depth cased (feet)	Well diameter (inches)	Date of land surface above NGVD (feet)	Litho-logic log	Geo-physical log
M-1073	270117080070301	USGS	1975	54	50	2.0	-	X	
M-1074	270223080144801	Hobe Groves	1975	100	100	2.0	-	X	X
M-1075	270223080144803	Hobe Groves	1975	100	100	2.0	-	X	X
M-1080	270028080265401	USGS	1975	24	24	2.0	28.47		
M-1081	270220080222001	USGS	1975	24	24	2.0	29.23		
M-1082	270622080154801	USGS	1975	32	32	2.0	11.13		
M-1083	265920080163901	USGS	1975	24	24	2.0	-		
M-1084	270239080114901	Sang-yick Farm	-	80	80	10.0	-		
M-1085	265915080290001	Caulkins Groves	1976	90	-	2.0	26.31	X	X
M-1086	265937080341901	Dupree Ranch	1976	45	-	2.0	26.59	X	
M-1088	265938080342001	Dupree Ranch	1976	180	-	2.0	-	X	
M-1089	270545080230302	Bessemer Prop.	1976	150	142	2.0	-	X	
M-1090	271127080144701	USGS	1976	200	123	2.0	-	X	
M-1091	271123080135201	USGS	1976	200	118	2.0	-	X	
M-1092	270309080072201	USGS	1976	260	155	2.0	-	X	X
M-1093	270028080064301	USGS	1976	90	70	4.0	-	X	

Table 1.--Well construction data from the Upper East Coast Planning Area (Cont'd)

Local well number	Identification number	Well owner	Date drilled (year)	Well depth (feet)	Depth cased (feet)	Well diameter (inches)	Date of land surface above NGVD (feet)	Litho-logic log	Geo-physical log
M-1094	265942080062401	USGS	1976	120	94	4.0	-	X	
M-1095	270042080061401	USGS	1976	240	155	2.0	-	X	
M-1096	265920080163901	USGS	1976	240	100	2.0	-	X	X
M-1097	270608080085601	USGS	1976	150	41	2.0	-	X	X
M-1100	270440080332501	USGS	1976	58	58	2.0	-		

Table 1.--Well construction data from the Upper East Coast Planning Area (Cont'd)

Local well number	Identification number	Well owner	Date drilled (year)	Well depth (feet)	Depth cased (feet)	Well diameter (inches)	Date of land surface above NGVD (feet)	Litho-logic log	Geo-physical log
PG-1	272608080191001	SFWMD	1976	40	36.5	2.0	32.63	X	
PG-2	272532080303301	SFWMD	1976	30	24.8	2.0	20.68	X	
PG-3	270804080202201	SFWMD	1976	30	24.4	2.0	-	X	
PG-4	272924080222101	SFWMD	1976	30	25.3	2.0	22.17	X	
PG-5	272907080212301	SFWMD	1976	30	25.1	2.0	21.43	X	
PG-6	272622080220301	SFWMD	1976	30	24.6	2.0	19.04	X	
PG-7	272423080215701	SFWMD	1976	30	24.4	2.0	16.08	X	
PG-8A	272106080174301	SFWMD	1976	30	6.3	2.0	15.03	X	
PG-8B	272106080174302	SFWMD	1976	30	26.0	2.0	14.87	X	
PG-9	271929080211101	SFWMD	1976	30	24.5	2.0	13.89	X	
PG-10	272400080262901	SFWMD	1976	30	26.0	2.0	19.86	X	
PG-11	272941080260301	SFWMD	1976	30	27.8	2.0	-	X	
PG-12	273302080265801	SFWMD	1976	30	22.4	2.0	21.14	X	
PG-13N	273306080330503	SFWMD	1976	-	58.0	2.0	23.80	X	
PG-13M	273306080330502	SFWMD	1976	140	91.2	2.0	23.92	X	
PG-13S	273306080330504	SFWMD	1976	26	22.9	2.0	23.82	X	
PG-14	273021080331301	SFWMD	1976	30	27.8	2.0	23.05	X	
PG-15E	272605080281902	SFWMD	1976	105	58.2	2.0	21.49	X	

Table 1.--Well construction data from the Upper East Coast Planning Area (Cont'd)

Local well number	Identification number	Well owner	Date drilled (year)	Well depth (feet)	Depth cased (feet)	Well diameter (inches)	Date of land surface above NGVD (feet)	Litho-logic log	Geo-physical log
PG-15W	272605080282001	SFWMD	1976	30	26.8	2.0	27.09	X	
PG-16	272744080304601	SFWMD	1976	30	26.6	2.0	22.65	X	
PG-17	272349080314501	SFWMD	1976	30	23.8	2.0	23.68	X	
PG-18	272118080342301	SFWMD	1976	30	24.3	2.0	22.08	X	
PG-19	271836080370901	SFWMD	1976	30	26.7	2.0	23.16	X	
PG-20	27417080330701	SFWMD	1976	30	23.8	2.0	25.89	X	
PG-21A	271357080404901	SFWMD	1976	30	126.3	2.0	55.49	X	
PG-21B	271357080404901	SFWMD	1970	140	27.0	2.0	55.44	X	
PG-23	271536080170001	SFWMD	1976	30	27.4	2.0	12.99	X	
PG-24A	271745080175901	SFWMD	1976	7	6.2	2.0	18.33	X	
PG-24B	271731080163801	SFWMD	1976	18	21.2	2.0	14.41	X	
PG-24C	271731080163802	SFWMD	1976	60	58.2	2.0	14.41	X	
PG-24D	271745080162601	SFWMD	1976	20	18.3	2.0	16.80	X	
PG-24E	271745080160901	SFWMD	1976	50	43.8	2.0	36.29	X	
PG-25	271802080193901	SFWMD	1976	30	27.5	2.0	12.48	X	
PG-26	272037080313701	SFWMD	1976	30	23.4	2.0	19.32	X	
PG-28M	271317080283502	SFWMD	1976	60	57.7	2.0	22.32		
PG-28N	271317080283503	SFWMD	1976	30	28.5	2.0	22.06	X	

Table 1.--Well construction data from the Upper East Coast Planning Area (Cont'd)

Local well number	Identification number	Well owner	Date drilled (year)	Well depth (feet)	Depth cased (feet)	Well diameter (inches)	Date of land surface above NGVD (feet)	Litho-logic log	Geo-physical log
PG-28S	271317080283504	SFWMD	1976	140	121.0	2.0	22.29	X	
PG-29	27164008034701	SFWMD	1976	30	27.7	2.0	27.15	X	
PG-30	271834080222201	SFWMD	1976	30	27.4	2.0	21.39	X	
PG-31A	273606080375001	SFWMD	1976		26.6	2.0	22.96		
PG-31B	273606080375001	SFWMD	1976	150	66.6	2.0	27.26	X	
PG-32	273210080213001	SFWMD	1976	30	24.1	2.0	17.70	X	
PG-33E	271929080193201	SFWMD	1976	21	20.1	2.0	-		
PG-33W	271929080193202	SFWMD	1976	8	7.3	2.0	-		
PG-34E	271929080200501	SFWMD	1976	21	20.0	2.0	-		
PG-34W	271929080200502	SFWMD	1976	8	1.7	2.0	-		
PG-35N	272133080394101	SFWMD	1976	30	27.7	2.0	32.40	X	
PG-35S	272133080394102	SFWMD	1976	140	56.1	2.0	32.56	X	

LITHOLOGIC DATA

Lithologic logs of 51 wells in the Upper East Coast Planning Area are given in table 2. These logs were prepared by personnel of the U.S. Geological Survey and South Florida Water Management District between 1944 and 1977. All lithologic logs presented in this report are from wells at least 90 feet in depth. The lithologic logs have been edited for clarity, but no attempt has been made to unify the terminology as this could hinder future interpretation.

GROUND-WATER LEVEL DATA

Ground-water level data were collected from 100 wells in the Upper East Coast Planning Area between 1976 and 1977 (table 3). The measurements were made near the end of the wet season (May-September) and the dry season (October-April). Water-level measurements in this report are given in feet with reference to either the NGVD of 1929 or land surface.

GROUND-WATER QUALITY DATA

During 1976-77 ground-water samples from 93 wells in the Upper East Coast Planning Area were collected and analyzed. Samples collected by the U.S. Geological Survey were analyzed at the Survey's laboratories in Atlanta, Georgia, and Ocala, Florida (table 4 and 5). Samples collected by the South Florida Water Management District were analyzed at its laboratory in West Palm Beach, Florida (table 6). Analyses prepared by both agencies include standard inorganic parameters, nutrients, and physical parameters. All specific conductance, temperature, pH, and alkalinity determinations were made in the field during sampling.

Table 2.—Lithologic data from the Upper East Coast Planning Area

Lithologic log of well SL-4

LOCATION: Six tenths of a mile east of U.S. 1 on Water Plant Road,
Fort Pierce

<u>Depth in feet below land surface</u>	<u>Geologic description</u>
0 - 10	Sand, quartz, gray to white, medium grained
10.5	Sand, quartz, light tan, medium to coarse grained.
16.0	Sand, quartz, dark brown, weakly cemented forming "hard pan".
21.0	Sand, quartz, carbonaceous, dark brown to black.
38.0	Sand, quartz, dark reddish brown, medium to coarse grained.
60.0	Alternating layers of dark gray sandy marl, gray quartz sand, and thin layers of clayey marl. Relatively impermeable.
74.0	Shell and sand.
75.0	Sand, quartz, fine, gray, and some shell. Also, considerable organic material (old mangrove swamp). Deep reddish brown color. Low permeability.
79.0	Sand, quartz, fine dark gray with approximately 20% shell.
90.0	Shell bed, dark gray with small amount of quartz sand and marl. (Water bearing).
104	Shell marl, sandy, dark gray.
112	Shell marl, sandy, light gray with layers of gray clayey marl. Sand very fine to fine grained.
122	Shell marl, sandy, dark gray, small amount of soft calcareous sandstone probably occurring in thin layers.
133	Marl, sandy, shelly, green, with small amount of soft calcareous sandstone. (As above).

Table 2.--Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well SL-45

LOCATION: Four and one-half miles south of U.S. 1 on Sunrise Blvd.,
Ft. Pierce

<u>Depth in feet below land surface</u>	<u>Geologic description</u>
0 - 104	No samples.
120	Sand, gray, and shell.
125	Clay, green, and fine grained sand.
186	Clay, phosphatic, green, sandy.
248	Clay, phosphatic, green, some fined grained sand.
371	Clay, dark green, phosphatic, some very fine grained sand.
392	Clay, dark green, phosphatic, some very fine grained sand.
413	Clay, white, phosphatic, phosphate nodules, fine phosphatic sandstone.
434	Clay, white, kaolinic, with phosphate, some shell, dark green shale, light green clay.
455	Clay, light green, phosphatic, dark green shale.
495	Clay, green, and shale.
516	Clay, green, and shale.
537	Sandstone, brown, very fine grained, large nodules, shells, dark green shale and clay.
558	Phosphate, very course grained, and shells, green shale, brown and gray sandstone, and white, sandy, phosphatic limestone.
579	Limestone, white, sandy.
600	Limestone, white, sandy.
640	Limestone, white, silty, with coarse grained phosphate.

Table 2.--Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well SL-45 (Continued)

LOCATION: Four and one-half miles south of U.S. 1 on Sunrise Blvd.,
Ft. Pierce.

<u>Depth in feet below land surface</u>	<u>Geologic description</u>
640 - 660	Limestone, white, silty with coarse grained phosphate.
700	Limestone, soft, white to gray, nonfossiliferous.
715	Limestone, white to gray, fossiliferous, shelly.
720	Limestone, white to gray, fossiliferous, shelly.

Table 2.--Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well SL-48

LOCATION: One-half mile east of U.S. 1 on private road at Indian River county line.

<u>Depth in feet below land surface</u>	<u>Geologic description</u>
0 - 3	No sample.
4	Limestone, brown to cream, very sandy, shelly, hard, porous.
4 - 21	No sample.
21 - 101	Sand and shells; sand, quartz, gray to brown, fine to some coarse grained; shells, mostly fragments of gastropods and pelecypods with numerous <u>Donax</u> sp?
246	Clay, dark gray to dark olive, drab, finely phosphatic?, finely sandy, with some dense, gray, crystalline limestone. Nollusk fragments, echinoid spines.
284	As above plus some coarse sand.
302	As above plus some hard, sandy, gray limestone.
318	Sand, quartz, olive drab, coarse to very coarse grained, with some clay as above and phosphoric pebbles. Mollusk fragments and shark's teeth.
340	As above plus a large amount of dark translucent chert and some white clay.
360	Clay, olive drab to light green, light green clay is dense and hard, some brown to white sandy limestone and material as above.
380	Clay, olive drab, coarsely sandy, phosphatic. Mollusk fragments.
400	As above but lighter in color.
442	Limestone, cream to light brown, soft to medium hard, granular, some very sandy white limestone, brown chert, phosphorite and sand. Ostracods, sponge spicules.

Table 2.—Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well SL-48 (Continued)

LOCATION: One-half mile east of U.S. 1 on private road at Indian River county line.

<u>Depth in feet below land surface</u>	<u>Geologic description</u>
484	Limestone, cream to light brown, soft to medium hard, granular, some very sandy white limestone, brown chert, phosphorite and sand. Ostracods, sponge spicules plus some glauconite, secondary calcite, numerous mollusk fragments and echinoid spines, <u>Lepidocyclus sp.?</u>
505	Limestone and clay, cream to olive drab, limestone soft, chalky with some dark dense chert. Fossiliferous as above.
521	Limestone, cream, soft, chalky, glauconitic. Very fossiliferous, <u>Lepidocyclus ocalana</u> , <u>Operculinoides ocalanus</u> , mollusk fragment.
542	Limestone, tan-gray, hard, chalky. Very fossiliferous, mollusk fragments, star fish ossicles, several varieties of <u>Lepidocyclus ocalana</u> , <u>Discocyclus (Asterocyclus) georgiana</u> .
584	Limestone, cream, hard, porous, slightly crystalline. Fauna as above plus some coral.
605	As above plus some cream colored chert. <u>Camerina moodybranchensis?</u>
642	Limestone, cream, hard, porous, chalky, slightly crystalline. Fossiliferous.
663	As above, but cream to tan in color.
684	As above, but slightly glauconitic.

Table 2.--Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well SL-173

LOCATION: Seventy-eight feet west of corner of U.S. 1 and Walton Road.

<u>Depth in feet below land surface</u>	<u>Geologic description</u>
0 - 136	Sand and shell, coarse grained.
140	Clay, greenish-gray lumps, a little sand and shell.
160	Lay, green, sandy.

Table 2.—Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well SL-175

LOCATION: East edge of Savannahs on Walton Road.

<u>Depth in feet below land surface</u>	<u>Geologic description</u>
0 - 15	Sand, gray, medium grained, non-calcareous.
60	Sand, dark brown, fined grained, with silt, some layers of hard silt, organic clay layer, near 60 ft. Sandy to 50-55 ft, more clay-silt on bottom.
70	Sand, cemented, and shells, calcareous, big porous chunks at 60-70 ft.
90	More loose shells.
130	75% shells.
130	90% shells.
160	90% shells, darker color last 5 ft picked up some sandy green clay.
200	Clay, sandy, green, with shells (probably from above).

Table 2.—Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well SL-177

LOCATION: Top of coastal ridge on Walton Road

<u>Depth in feet below land surface</u>	<u>Geologic description</u>
0 - 2	Sand, gray-white, fine to medium grained, rounded, noncalcareous.
20	Sand, orange, medium grained, noncalcareous, some streaks of brown sand.
30	Sand, light orange, medium and fine grained, rounded, noncalcareous.
40	As above with chunks of calcareous cemented sand and shells.
50	Sand, darker, fine and medium grained.
50	Sandy, dark brown organic layer.
57	Sand grading to shell fragments.
70	Shells and sand.
75	As above and large (3/4 in) shells appearing.
100	Shell and sand consolidated. Bigger chunks appearing 80-90 ft and small shells (broken and unbroken) appearing at 115-120 ft.
134	Sand, fine to medium grained, clayey, firm to soft, with shells.
167	Sandstone, cemented, hard lots of shells inbedded. Thin streaks of gray sandy clay.
200	Sand, fine grained, very clayey, (30%) dark green.

Table 2.--Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well SL-183

LOCATION: Seventy-eight feet west of U.S. 1 and Walton Road.

<u>Depth in feet below land surface</u>	<u>Geologic description</u>
0 - 3	Sand, gray, fine grained.
4	Clay, brown, sandy.
6	Sand, fine grained, tan.
8	Sand, fine grained, tan, a little clay near 8 ft.
12	Sand, fine grained, tan.
14	Sand, fine grained, tan.
16	Sand, fine grained, tan.
18	Sand, fine grained, gray.
20	Sand, fine grained, gray.
22	Sand, fine grained, light to dark gray.
29	Sand, fine grained, gray and shell fragments.
35	Sand, cemented, and shell.
40	Sand, light tan, cemented and shell.
65	Sand, gray, cemented, and fine shell.
75	Shell, tan, sandy, with layers of gray cemented sand and shell, a little clay showing.
83	Sand and shell, gray cemented, with layers of sand and shell, a little clay showing.
98	Shell, coarse grained, sandy.
101	Sand, gray, fine grained, and shell.
120	Sand, coarse grained, and shell fragments with cemented layers of sand and shell.

Table 2.—Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well SL-185

LOCATION: Two and one-half miles east of SR 609 extension, on McCarty Ranch.

<u>Depth in feet below land surface</u>	<u>Geologic description</u>
0 - 1	Sand, fine grained, black organic material.
3	Sand, red, some gray clay.
6	Clay, blue-gray, and fine sand.
10	Limestone, gray, sandy, and shell, some clay.
15	Limestone and sand, gray, sandy, 90% quartz sand.
20	Shells, poorly cemented.
27	Shells (coquina).
35	Shells (coquina).
40	Sand, fine grained, gray.
46	Shell and limestone, hard, cemented.
50	Shell, sandy limestone (20% quartz), some clay.
57	Sand, fine grained gray.
63	Sand, fine grained, gray, some shell.
73	Sand, shell, clay.
78	Sand, very fine grained, gray.
88	Sand (75%), shell, clay.
92	Sand on top of shell bed.
103	Sand, fine grained, gray.
107	Shell, poorly cemented, lost mud.
118	Shells (unconsolidated), some sand.

Table 2.--Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well SL-188

LOCATION: One-quarter mile north of White Road on Florida Agricultural Research Station property.

<u>Depth in feet below land surface</u>	<u>Geologic description</u>
0 - 3	Sand, medium grained, quartz.
5	Clay, brown, and sand, some organics.
10	Clay, gray, very sandy (75% quartz sand).
15	Clay, blue.
20	Clay to 18 ft, then fine grained sand.
25	Clay, shell, some sand.
30	Shells, black.
34	Sand, cemented (1 to 2 ft), shells.
37	Sand, hard, cemented, some shell.
40	Shell and layers of chert, cemented limestone, silica replacement in shells.
43	Shell, losing some mud.
47	Shell, calcium cemented.
49	Shell and sand, hard layer, cemented.
56	Shell to 54 ft, then shelly sand.
64	Hard unit (no sample).
68	Shell and sand, hard packed, cemented.
78	Shell cemented.
83	Sand and shell, hard layer, well cemented.
88	Shell, cemented, dolomitic.

Table 2.—Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well SL-188 (Continued)

LOCATION: One-quarter mile north of White Road on Florida Agricultural Research Station property.

<u>Depth in feet below land surface</u>	<u>Geologic description</u>
0 - 92	Shell, cemented, dolomitic.
97	Dolomite, hard layer.
103	Shell cemented.
108	Shell, cemented, thin layer of clay (1 ft).
118	Shell cemented.

Table 2.—Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well SL-190

LOCATION: East side of U.S. 1, 200 feet south of Georgia Avenue,
Ft. Pierce.

<u>Depth in feet</u> <u>below land surface</u>	<u>Geologic description</u>
0 - 2	Sand, fine grained, gray to white.
3	Clay, sandy, black (organic).
5	Sand, gray to tan, fine to medium grained.
6	Clay, sandy, black.
9	Sand, gray to tan, fine grained.
18	Sand, partly cemented, rust brown.
19	Sandstone, hard.
30	Sand, slightly cemented, dark brown.
40	Sand, slightly cemented, dark brown.
46	Clay, black.
48	Sand, gray to tan, fine grained.
50	Sand, clayey, black.
58	Shell, dark-gray to tan, broken, fine sand.
64	Shell, tan to gray.
77	Sandstone, tanish gray, fine grained.
88	Shells, broken, tan to dark gray.
94	Shells, broken, tan to dark gray.
103	Sandstone, broken shells.
118	Sandstone, broken shells, light green clay at 118 ft.
133	Sandstone, broken shells.
144	Clay, sandy, gray-green and some shells.
148	Clay, sandy, dark green.

Table 2.—Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well SL-191

LOCATION: Behind Police Station on 7th Street, near Moore's Creek,
Ft. Pierce.

<u>Depth in feet below land surface</u>	<u>Geologic description</u>
0 - 4	Sand, gray to white, fine grained.
8	Sand, clay, black organic.
11	Sand, clay, black organic.
29	Sand, and clay, dark brown.
44	Sand, coarse grained, clay layers.
48	Shell, broken, gray to tan, fine grained sand.
55	Shell, clay layers, fine grained.
58	Shell and sand, cemented, tan to gray.
81	Shell and sand, cemented, tan to gray.
88	Sandstone with gray clay layers.
92	Sandstone, gray, sandy clay.
95	Sandstone, gray, cemented.
98	Marl, gray.
103	Sandstone, gray.
113	Sandstone, gray.
118	Clay, sandy, gray-green.
128	Clay, sandy, gray-green.
133	Clay, dark green, little sand.

Table 2.--Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well SL-192

LOCATION: South side of C-25, one-half mile east of 25th Street,
Ft. Pierce.

<u>Depth in feet below land surface</u>	<u>Geologic description</u>
0 - 9	Sand, tan to gray, medium grained.
11	Sand and black organic clay.
13	Sand, clayey, tan.
19	Clay, sandy, tan.
22	Sandstone, gray, friable.
42	Sand, fine to medium grained with organic layers.
46	Sand, brown, fine to medium grained.
47	Sand, clayey, black.
55	Shell, broken, fine grained sand.
58	Sandstone with shells, gray.
73	Shell with sand and sandstone layers, thin clay layers.
88	Shell and cemented dark gray sand.
91	Shell and cemented dark gray sand.
101	Sandstone with some shell.
104	Limestone, cemented shell, tan.
113	Sandstone, gray.
118	Clay and sand, light green.

Table 2.--Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well M-1012

LOCATION: Three miles west of Florida State Turnpike on SR 714

<u>Depth in feet below land surface</u>	<u>Geologic description</u>
0 - 5	Sand, white-gray.
10	Sand, coarse grained, white.
20	As above and 10% gray clay.
30	Sand, gray-white and 20% hard shell.
50	Shell, fine and 30% brown-gray sand.
80	Shell, 20% sandstone and some gray sand.
90	As above and 40% sandstone.
100	Shell, fine sandstone and gray sand.
110	Sand, gray, 40% shell, and 10% gray-white clay.
140	Sand, fine, gray and fine shell.
180	Clay, sandy, light-green.
240	Sand, clayey, light-green.

Table 2.—Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well M-1013

LOCATION: Corner of SR 714 west and 714 north, just south of Palm City

<u>Depth in feet below land surface</u>	<u>Geologic description</u>
0 - 5	Sand, gray, fine-medium grained.
10	Sand, gray-white.
20	Sand, coarse grained, gray.
30	Sand, gray-brown, and some fine shell.
40	Shell and some sandstone and gray sand.
60	Shell, sandstone and gray-white sand.
70	Sandstone, 20% shell, and some coarse gray sand.
100	Shell, sandstone, limestone, and 20% gray sand.
120	Shell, fine grained sandstone and 30% coarse gray sand.
130	Shell and gray sand.
140	Shell, fine and fine grained, brown-gray sand.
160	Sand, gray-green, and some shell.
170	Clay, sandy, green, and some sand.
200	Clay, green.

Table 2.—Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well M-1014

LOCATION: 0.2 mile south of intersection of SR 708 and U.S. 1

<u>Depth in feet below land surface</u>	<u>Geologic description</u>
0 - 5	Sand, fine grained, white.
10	Sand, fine-medium grained, white-gray.
20	Sand, yellow-tan.
30	Sand, light tan.
40	Sandstone, cemented, beige and some shell.
50	Sandstone, cemented, beige.
60	Sandstone, smaller.
70	Limestone, soft, dark gray.
80	Sand, tan and shell.
90	Sandstone, fine-coarse, white and 20% shell.
100	As above but darker.
110	Shell and 20% sand.
120	Shell, 30% limestone, and some sand.
160	Shell, sand, sandstone and limestone.
170	Shell, hard, marl, 40% sand, gray.
180	Sandstone, 40% gray clay.
190	Sand, gray and 30% gray shell.
200	Shell, some sandstone and gray clay.
220	Shell, sand, fine, and gray clay.
230	Sand, gray, some shell and gray clay.

Table 2.—Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well M-1014 (Continued)

LOCATION: 0.2 mile south of intersection of SR 708 and U.S. 1

<u>Depth in feet</u> <u>below land surface</u>	<u>Geologic description</u>
230 - 240	Clay, sandy, gray.
270	Sand, coarse, gray and gray clay.
340	Sand, clayey, light green.

Table 2.--Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well M-1015

LOCATION: Four miles west of U.S. 1 on SR 708

<u>Depth in feet below land surface</u>	<u>Geologic description</u>
0 - 5	Sand, fine-medium grained, gray.
10	Sand, gray, shell, and some marl.
20	Sand, gray, shell, and some sandstone.
30	Sandstone, hard, gray-white.
40	Shell and some gray sandstone.
60	Limestone, dark gray, sandstone, and some shell.
70	Limestone, dark gray, sandstone, and sand.
80	As above with shell.
90	Shell, fine to medium grained.
100	Shell, sand, limestone and sandstone.
110	Limestone, coarse and white-gray sand.
120	Sand, white-gray and limestone.
130	Limestone, coarse, and white-gray sand.
140	As above with more sand.
150	Sand, gray, and some sandstone.
160	Sandstone and 20% shell.
170	Sand, gray, shell, and some light-gray clay.
190	Clay, sandy, gray.
210	Clay, gray-green.

Table 2.—Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well M-1016

LOCATION: Intersection of SR 708 and SR 711

<u>Depth in feet below land surface</u>	<u>Geologic description</u>
0 - 5	Sand, fine to medium grained, gray.
10	Marl, dark brown and sand.
20	Sand, dark brown.
30	Shell, 50% fine, and brown sand.
40	Shell 80%, and brown sand.
50	Mostly shell and some white sand.
70	Sandstone, hard, gray and some shell.
90	Limestone, coarse, gray and sandstone.
110	Limestone, gray, sandstone, and 40% gray clay.
120	Limestone, gray-white, sandstone and some sand.
130	As above with some light green clay.
140	Sand, light green, and some clay.
150	As above with sandstone.
180	Clay, green and little sand.

Table 2.—Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well M-1017

LOCATION: Corner of Cove Road and U.S. 1

<u>Depth in feet below land surface</u>	<u>Geologic description</u>
0 - 5	Sand, fine-medium, gray.
10	Marl, dark brown and gray, and some sand.
20	Sand, coarse, gray, and some sandstone.
30	Sand, dark brown-black.
50	Shell 70%, and medium-grained sand, gray.
60	As above with smaller shell.
70	Shell 50%, and medium-grained sand, gray.
90	Sand, gray, shell and some limestone.
100	Limestone, hard, gray-white, compressed shell and 20% gray-brown sand.
110	Limestone, sandstone and 30% medium-grained brown sand.
120	Limestone, gray, and 20% brown sand.
130	Shell, small, sandstone, and 30% brown sand.
150	As above with some limestone.
160	As above with 50% brown sand.
170	Limestone, sandstone, 40% fine-grained, brown sand, 10% gray-green clay.
180	Sandstone and some light green clay.
190	Sandstone, some light green clay and some shell.
220	Clay, dark green.

Table 2.—Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well M-1018

LOCATION: Intersection of SR 76 and Florida State Turnpike

<u>Depth in feet below land surface</u>	<u>Geologic description</u>
0 - 5	Sand, fine-medium, gray.
10	Clay, brown, and silty black sand.
20	Sand, fine, gray and black mixed with brown clay.
30	Shell, large and 10% gray sand.
50	Shell, 20%, and gray sand.
60	Shell, large.
70	Shell, large, and 20% gray sand.
80	Shell, large.
90	Shell and gray sand.
100	Shell, large and white sand.
110	Clay, gray shell and gray sand.
130	As above with less shell.
150	Shell, small and gray-green clay.
160	Clay, green, gray clay, and some small shell.
170	Clay, green.
200	Clay, green.

Table 2.—Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well M-1019

LOCATION: Six miles west of Florida State Turnpike on SR 76

<u>Depth in feet</u> <u>below land surface</u>	<u>Geologic description</u>
0 - 5	Sand, fine to medium grained, orange.
10	Sand, 60%, brown-orange, 40% white clay.
20	Sand, brown, and small shells.
30	Shell and 20% coarse gray sand.
40	Shell, fine-medium.
50	Shell, fine-coarse and 20% coarse gray sand.
60	Shell, large, and some sand.
70	Shell, sandstone and 30% gray sand.
90	Sandstone, gray, limestone, and gray shell.
100	As above with 20% fine-grained gray-brown sand.
120	Shell and 30% coarse, gray-brown sand.
140	Shell and 40% coarse, gray-brown sand.
150	Sand, 60% coarse, brown-gray, 20% white-gray clay, and shell.
180	Clay, dark green and 5% fine-grained shell.

Table 2.—Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well M-1020

LOCATION: N.E. corner of Citrus Boulevard and SR 710, Indiantown

<u>Depth in feet</u> <u>below land surface</u>	<u>Geologic description</u>
0 - 5	Sand, gray-brown.
10	Sand, fine-medium, brown, and dark brown marl.
20	Sand, rust brown, and 20% dark brown clay.
30	Sand, dark brown, and 20% dark brown clay.
40	Clay, dark brown, and 50% fine, light brown sand.
50	Sand, light brown, and 10% dark brown clay.
60	Sand, light brown, and 50% light brown clay.
70	Shell, fine, brown clay, and 30% light brown sand.
80	Sand, light brown, shell, 20% gray clay.
120	Shell and 30% fine-grained, brown sand.
130	Sand, gray, shell and 10% white clay.
140	Shell, and 20% brown sand.
150	Shell, and 30% brown sand.
170	Sand, gray, shell and light green clay.
200	Clay, dark green.

Table 2.—Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well M-1021

LOCATION: N.E. corner of SR 609 and SR 714

<u>Depth in feet below land surface</u>	<u>Geologic description</u>
0 - 5	Sand, fine-medium grained, gray, 1 - 2 ft gray-green clay.
10	Shell, small, fine-grained, brown sand and 10% gray-green clay.
20	Coquina, and small shell.
30	Sand 40% fine-grained, gray, smooth sandstone and shell.
40	Sand, 50% fine-grained, gray-white, very smooth, sandstone and shell.
50	Clay, 90% gray, 10% shell.
60	Clay, 5% gray, 50% shell.
70	Sand, 60% clayey, gray, and shell.
80	Sand, 30% clayey, gray, and shell.
100	Sand, 30% clayey, gray, and shell.
110	Sand, fine, shell and 30% clayey sand.
120	As above and some sandstone.
130	Sand 40% clayey, gray, and small shell.
140	Sand 30% fine, gray, 20% clay and gray-green small shell.
150	Sand, gray, shell, and 20% green-clay.
180	Clay, dark green and 5% shell.

Table 2.—Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well M-1022

LOCATION: Five miles east of intersection SR 609 and SR 714

<u>Depth in feet below land surface</u>	<u>Geologic description</u>
0 - 5	Sand, fine-medium grained, gray.
10	Sand, 80% fine-medium, gray-brown and 20% brown clay.
20	Clay, 60% dark brown, and coarse grained sand.
30	Sand, 40% coarse, gray and fine-medium grained shell.
40	Shell, fine-medium grained and 20% sand.
50	Shell, fine and 30% brown-gray sand.
60	Shell, medium-large, sandstone and 20% dark gray clay.
70	Shell, 30% dark gray limestone and 20% brown sand.
80	Limestone, 80% dark gray, 10% green clay and shell.
90	Limestone, 50%, medium-large, 30% green clay and 20% shell.
100	Limestone and sandstone, 80% green clay and coarse-grained dark sand.
110	Shell, fine-coarse grained, 20% gray-brown clay and coarse-grained gray sand.
120	Shell, fine-coarse grained, 40% gray-brown clay and coarse-grained gray sand.
140	Clay, 50% gray-brown, shell, and gray sandstone.
150	Sand, fine grained, gray, shell, 30% gray-green clay.
160	Sand, fine-grained, gray, shell, 40% gray-green clay.
200	Clay, green and 5% shell.

Table 2.—Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well M-1023

LOCATION: 0.5 mile east of U.S. 1 on SR 707

<u>Depth in feet below land surface</u>	<u>Geologic description</u>
0 - 5	Sand, fine to medium-grained, white-gray.
10	Sand, medium to coarse-grained, dark brown.
20	Sand, light tan.
30	Sand, dark tan.
40	Sand, fine-grained, gray-brown.
50	Limestone, gray.
60	As above, finer.
70	As above and 10% coarse, gray sand.
80	Sand, 40% brown-gray, and shells.
90	Sand, 40% clayey, brown-gray and shells.
100	Sand, 30% clayey, brown-gray and shells.
110	Sand, 40% gray-brown, some shell, gray limestone and sandstone.
120	Sand, 30% gray-brown, shell, limestone, and sandstone.
140	Sand, 40% gray-brown, shell, limestone, and sandstone.
160	Sand, 60% gray-brown, shell, limestone, and sandstone.
180	Sand, 50%, gray-brown, and shell.
190	Sand, fine and shell.
220	Clay, 90% dark green and fine grained sand.

Table 2.—Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well M-1030

LOCATION: At Rio, Florida, on SR 723, 0.4 mi N.E. or intersection with
SR 707

<u>Depth in feet below land surface</u>	<u>Geologic description</u>
0 - 2	Sand, gray, slightly calcareous.
6	Sand, fine-medium grained, tan, non-calcareous.
8	Sand, gray, slightly calcareous.
10	Sand, silty, dark brown.
18	Sand, grades from light brown to tan to darker.
22	Sand, tan.
40	Sand, medium brown.
70	Shells, gray and white, and shell fragments.
80	Sandstone, hard, with some shells.
140	Shells, gray and white, with some hard sandstone.
180	Clay, sandy, green, grading towards larger percentage clay.

Table 2.--Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well M-1038

LOCATION: Tequesta, Fla., intersection of Arnold and Suddard Streets.

<u>Depth in feet below land surface</u>	<u>Geologic description</u>
0 - 13	Sand, fine to coarse grained, white.
20	Sand, fine grained, dark tan.
35	Sand, coarse grained, glassy.
70	Sandstone, calcite, cemented, tan and some shell fragments.
95	Sandstone, calcite cemented, gray and some finely crushed shell fragments intermixed.
140	Shell, fine-grained gray sand, and some sandstone intermixed.
150	Sandstone, tan to gray and shell fragments.
170	Limestone, sandy, tan and some shell fragment.
200	Shell, crushed, some limestone and sandstone fragments intermixed.

Table 2.—Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well M-1039

LOCATION: In Tequesta Park, on fire lane approximately ¼ mile north of County Line Road.

<u>Depth in feet below land surface</u>	<u>Geologic description</u>
0 - 6	Sand, fine grained, white to gray.
13	Sand, fine grained, orange.
25	Sand, medium to coarse grained, light brown.
35	Sand, fine to medium grained, light brown, and some bits of sandy clay.
40	Sand, medium to coarse grained, clear to light brown.
71	Sandstone, calcite cemented, tan, and some interbedded shell fragments.
90	Sandstone, calcite cemented, tan to brown, and some interbedded shell fragments.
120	Sandstone, calcite cemented, tan, and lots of shell fragments intermixed.
152	Shell, fragments, and some bits of sandstone and interbedded shell fragments intermixed.
170	Limestone, crushed, tan, some shell fragments and some bits of gray phosphorites.
180	Limestone, sandy, and tan to greenish-gray interbedded shell fragments.

Table 2.--Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well M-1040

LOCATION: SR 710, 6.7 miles N.W. of Indiantown, Fla.

<u>Depth in feet below land surface</u>	<u>Geologic description</u>
0 - 90	Shell fragments, medium to large and fine grained sand.
100	Shell fragments, medium to large and fine-grained sand.
120	Shell fragments, medium to large intermixed with some sandy light green clay.
150	Clay, sandy, light green intermixed with some medium to large shell fragments.
170	Shell fragments, medium-large intermixed with sandy, green clay.
180	Clay, sandy, dark green, and some shell fragments.

Table 2.—Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well M-1041

LOCATION: SR 710 at Okeechobee County line.

<u>Depth in feet below land surface</u>	<u>Geologic description</u>
0 - 3	Sand, fine grained, grayish white.
10	Sand, fine grained, dark brown.
20	Clay, sandy, dark brown.
30	Clay, sandy dark brown, gray and shell fragments, medium to large.
40	Sand, fine and medium to large shell fragments.
60	Shell fragments medium, dark gray.
90	Shell chips and fragments.
100	Shell chips and fragments, medium large.
120	Shell chips and fragments and small chunks of light green sandy clay.
140	Shell fragments, small to medium.
200	Shell fragments, small to large.
220	Clay, sandy, dark green and shell fragments.

Table 2.--Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well M-1042

LOCATION: Near landing strip at Dunklin Memorial Camp.

<u>Depth in feet below land surface</u>	<u>Geologic description</u>
0 - 10	Sand, fine to medium grained, light gray to grayish brown.
20	Sand, fine to medium, dark brown.
40	Cemented sand, fine to medium dark brown.
60	Sand, glassy, coarse to very coarse grained.
100	Shell fragments and chips, medium to large, dark gray.
160	Shell fragments and chips, medium to large, dark gray.
170	Shell fragments, medium and sandy clay chunks, dark green.
180	Clay, sandy, dark green, and shell fragments.

Table 2.—Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well M-1043

LOCATION: Jensen Beach, Fla., in All Saints Cemetery, 60 feet east of
F.E.C.R.R.

<u>Depth in feet below land surface</u>	<u>Geologic description</u>
0 - 8	Sand, fine grained, white.
12	Sand, fine to coarse grained.
52	Sand, fine to coarse grained, tan-yellow.
61	Sand, fine to very coarse grained clay, and shell.
66	Sandstone, fine grained, tan.
68	Sand, fine grained, white to tan.
76	Sandstone or limestone and shells.
85	Limestone and shells, dark gray.
100	Rock, large, dark gray, limerock and large shell fragments.
110	Limerock, calcite cement, gray, shell fragments and hard dark gray rock.
120	Limestone, fine grained, cemented together and shell fragments.
138	Limestone, fine grained, gray and shell fragments.
170	Limestone, fine grained, gray and shell fragments.
210	Limestone, fine grained, gray.
220	Clay, sandy, green and shell fragments.

Table 2.—Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well M-1044

LOCATION: Hobe Sound, Fla., corner of AlA and Saturn Avenue.

<u>Depth in feet below land surface</u>	<u>Geologic description</u>
0 - 4	Sand, fine to medium grained, white.
25	Sand, fine to coarse grained, yellow-tan.
30	Sand, very coarse grained, tan (some calcited together forming small sandstones).
50	Sandstone, medium to very coarse grained, tan (calcited together).
60	Sandstone (calcareous), medium to very coarse grained, tan.
65	Sandstone (calcareous), fine to medium grained, tanish orange.
84	Sandstone (calcareous), medium to coarse grained, orange-tan.
95	Sand, fine grained, gray and shell fragments.
100	Shells and shell fragments and fine grained tan-dark gray (calcareous).
110	Shell fragments and rock bits, dark gray.
117	Rock, coarse to large, dark gray and shell fragments.
120	Rock, coarse to large dark gray and shell fragments.
125	Rock, very coarse to large, dark gray shell fragments and light tan sandstone.
130	Sandstone (calcareous), fine grain, tan rock bits and shell fragments.
140	Sandstone (calcareous), fine grained, tan, dark gray rock bits and shell fragments.

Table 2.—Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well M-1044

LOCATION: Hobe Sound, Fla., corner of AlA and Saturn Avenue.

<u>Depth in feet below land surface</u>	<u>Geologic description</u>
0 - 150	Limestone and tan to grayish-tan sandstone.
160	Limerock, tan to dark green, and shell fragments.
170	Limerock, gray and shell fragments.
185	Clay, light gray, shell fragments and sandstone.
200	Clay, dark green, sandstone and shell fragments.

Table 2.--Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well M-1050

LOCATION: Near Palm City, Fla., at Lighthouse Point

<u>Depth in feet</u> <u>below land surface</u>	<u>Geologic description</u>
0 - 1	Sand, fine white.
4	Sand, fine to medium grained and black soil.
6	Silt, gray.
8	Sand, fine to medium grained and black (organic) soil.
23	Clay and gray sand.
27	Clay, sandy (15%), gray-green.
32	Clay, sandy (25%), light gray.
35	Clay, sandy, black.
37	Clay, black to mottled, some cemented layers.
45	Shells, buff and sand.
47	Clay, sandy, dark gray.
50	Sand, cemented, gray and shells.
53	Shells, loose, sandy.
65	Sandstone and shells cemented and streak of sand.
69	Shells, whole, loose.
85	Sandstone, and shells.
93	Shells, loose, broken.
145	Limestone and sandstone, light gray.
182	Clay, light gray-greenish and sand.

Table 2.--Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well M-1051

LOCATION: Palm City, Fla., in Palm City Park near east end of St. Lucie River bridge.

<u>Depth in feet below land surface</u>	<u>Geologic description</u>
0 - 8	Sand, fine to medium grained, white.
15	Muck, black.
26	Clay, sandy, gray.
32	Clay, green to blue-green.
49	Sand, fine to coarse grained, gray clay and loose shells.
55	Clay, light gray and whole, dark shells.
75	Sandstone, hard, gray, and shells.
85	Sand, fine to medium grained, lots of shells.
104	Limestone and sandstone, gray.
117	Sandstone and limestone, sand and gray shell.
137	Sandstone and limestone, light gray.
161	Sand, clayey, very fine grained.

Table 2.--Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well M-1052

LOCATION: Near Port Salerno, Fla., on A1A south of Cove Road

<u>Depth in feet below land surface</u>	<u>Geologic description</u>
0 - 10	Sand, tan to yellow.
12	Hardpan, black.
16	Sand, fine to medium grained, tan.
17	Clay, sandy, gray.
24	Shells, loose and fine white sand.
68	Shells, sand, fine.
70	Clay, dark gray.
85	Shells, broken and whole, and fine-grained sand.
105	Shells, broken and whole, gray and tan, dark gray clay and silt stone.
117	Sandstone and shells.
137	Clay, green, and shells grading into sandstone and limestone.
160	Clay, sandy, soft, green.

Table 2.—Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well M-1053

LOCATION: Near Port Salerno, Florida, on Cove Road at Miles Grant
Condominium.

<u>Depth in feet below land surface</u>	<u>Geologic description</u>
0 - 2	Sand, fine, gray.
4	Sand, black hardpan.
12	Muck, black.
20	Sand, fine to coarse grained, orange rust.
87	Sandstone, fine grained and shells, cemented.
90	Clay, sandy, gray.
96	Sandstone and sand.
123	Shells and sandstone in layers and clay.
147	Limestone, sandstone, clay and siltstone.
184	Sandstone, limestone and shells.
200	Clay, sandy, light green, soft.

Table 2.--Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well M-1070

LOCATION: At Jonathan Dickinson Park on U.S. 1, near south entrance

<u>Depth in feet below land surface</u>	<u>Geologic description</u>
0 - 1	Sand, fine grained, dark brown.
3	Sand, white.
6	Sand, fine grained, brown to reddish brown.
13	Sand, fine grained, tan.
19	Sand, fine grained, reddish brown.
27	Clay, sandy, tan.
40	Sand, coarse grained, tan.
60	Sand, coarse grained, tan and bits of sandstone.
80	Sandstone, coarse grained, tan, hard.
102	Sandstone, fine grained, tan, very hard, calcite cemented shell fragments.
110	Shell fragments, crushed, cream to reddish brown and sandstone.
120	Sandstone, shell fragments and some dark gray phosphorite.
140	Shell fragments, tan to dark gray.
150	Limestone, sandy, cream.
176	Limestone, sandy, cream tan, and shell fragments.
180	Limestone fragments, shell fragments and marl.
200	Shell fragments and some limestone fragments.
235	Shell fragment and lots of crushed gray sandstone fragments.
310	Sandstone, gray, some shell fragments, and some light green clay.

Table 2.--Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well M-1075

LOCATION: 0.5 mile west of Florida Turnpike on SR 708, 0.27 mile south of entrance gate of Holie Groves property

<u>Depth in feet</u> <u>below land surface</u>	<u>Geologic description</u>
0 - 5	Sand, clayey, yellow-brown.
10	Sand, clayey, gray and shell.
35	Shells and some clay.
54	Shells, sandstone, and dark limestone.
86	Sandstone and shells, hard.
100	Shells, fine grained sand and clay.

Table 2.—Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well M-1085

LOCATION: South of SR 76 on Caulkins Groves property

<u>Depth in feet</u> <u>below land surface</u>	<u>Geologic description</u>
0 - 5	Sand, tan to brown and some shell.
9	Sand, clayey, black, organic.
16	Sand, fine to medium grained and lots of shell.
18	Sand, clayey, fine grained, blue green.
24	Limestone, sandy, tan to gray, hard.
29	Limestone, sandy, tan to buff.
35	Shells, loose, tan to dark brown.
38	Sand, clayey, fine to coarse grained, dark brown to black, organic.
55	Shells, broken brown to gray.
78	Shells and fine grained gray to tan sand.
79	Hard sandstone streak.
90	Shells, tan to gray, some sand and hard limestone.

Table 2.--Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well M-1088

LOCATION: Near Port Mayaca, Florida, on Dupree Ranch close to small lake.

<u>Depth in feet below land surface</u>	<u>Geologic description</u>
0 - 7	Sand, fine grained, white.
11	Shell and sand, brown, soft
15	Clay, sandy, gray.
22	Shell, broken and sand.
25½	Shell, cemented and sand.
45½	Shell, broken, tan to brown and some clay and sand.
70	Shells, large broken pieces and some whole, brown to black.
87	Shells and limestone, gray to black.
88	Clay, sandy, gray-green, and broken dark shells.
96	Shells, broken, black and fine grained sand.
106	Shells, broken and fine-grained sand, tan to white.
118	Clay, sandy, light green and some broken shells.
122	Clay, sandy green.
135	Marl, gray-green and broken shells.
145	Limestone, sandy, gray green, friable.
155	Clay, sandy, dark green, fairly soft.
180	Clay, sandy.

Table 2.—Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well M-1089

LOCATION: Center of county on Bessemer property.

<u>Depth in feet below land surface</u>	<u>Geologic description</u>
0 - 4	Sand, fine grained, white.
5	Hardpan, black to dark brown.
7	Limestone, broken, and sand.
12	Sand, clayey, fine, white.
18	Sand, fine to coarse grained, clear.
28	Shells, broken, tan.
30	Shells, and sandy clay.
46	Sand, silty, fine grained light gray.
48	Sand and shell, tan to buff.
69	Sand, silty, fine, light gray.
76	Shells, and fine grained, white to light gray sand.
94	Clay, sandy, gray and shells.
98	Limestone, sandy, friable, and shells.
126	Sandstone, soft, light gray to light green and some shells.
143	Limestone, sandy, soft and a few broken shells.
149	Shell, cemented, with cavernous zones.

Table 2.—Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well M-1091

LOCATION: Stuart, Florida, corner of 10th and Trinity Streets

<u>Depth in feet</u> <u>below land surface</u>	<u>Geologic description</u>
0 - 5	Sand, fine grained, white.
7	Hardpan.
33	Sand, fine to medium grained, tan to very dark.
37	Clay, light brown.
39	Sand, black clay.
41	Sand, brown, fine to medium grained.
43	Clay, sandy, very soft, black,
65	Shells, brown to dark gray, and some sand.
85	Limestone, sandy, dark gray, and shells.
105	Limestone and shell, sandy, light gray to tan.
155	Shell, broken, cemented, tan to light gray.
182	Shell, broken, and green clay streaks.
200	Clay, sandy, dark green and shell.

Table 2.--Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well M-1095

LOCATION: Along U.S. 1 at Jonathan Dickinson Park, north of well 1070.

<u>Depth in feet below land surface</u>	<u>Geologic description</u>
0 - 11	Road fill.
20	Sand, fine grained, brown.
45	Sand, fine to coarse grained, yellowish-brown to brown.
52	Sandstone, shelly, cemented, tan to light brown, hard.
60	Shells, broken, tan and bits of light brown sandstone.
107	Sandstone, calcite cemented, tan to grayish tan, and shell fragments.
120	Sandstone, calcite cemented, gray, shell fragments and some organic material, brown.
130	Shell fragments, tan to gray, and some sandstone fragments.
160	Shell fragments, dark gray, some sandstone, and bits of phosphatic material.
180	Limestone, sandy, creamy tan and lots of hard, gray shell fragments.
200	Limestone, sandy, creamy tan, hard lots of gray shell fragments, and some creamy marl.
240	Limestone, sandy, gray, shell fragments.

Table 2.--Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well M-1096

LOCATION: Along SR 711, 5.1 miles south of SR 708 intersection and
3.3 miles north of SR 706 intersection.

<u>Depth in feet</u> <u>below land surface</u>	<u>Geologic description</u>
0 - 7	Sand, fine to medium grained, white.
24	Clay, brown (organic hardpan) to blue, shell, and sand.
28	Shells, broken, and gray limestone.
64	Limestone, dark gray, soft.
106	Shell, and gray-tan sand.
146	Shell, white to tan, and slightly cemented sand.
172	Clay, sandy, green.
224	Clay, silty, dark green.
240	Clay, dark green, tough.

Table 2.--Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well M-1097

LOCATION: 3.5 miles north of Hobe Sound, east of FECRR at First Avenue and 8th Street.

<u>Depth in feet below land surface</u>	<u>Geologic description</u>
0 - 6	Sand, fine grained, white.
16	Sand, fine to coarse grained, yellow.
18	Shells, cemented, some sand.
45	Sandstone, cemented, some shell.
65	Limestone, and calcited cemented, gray to light olive-brown sand.
85	Limestone, sandy, cemented, dark to light gray.
102	Shells, broken, tan.
114	Limestone, dark gray and lots of shells.
118	Shells, broken, and sand.
133	Sandstone, gray, hard.
150	Shells, broken, tan to gray, and loose fine grained sand.

Table 2.—Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well PG-13

LOCATION: West side of Minute Maid Road, eight miles north of SR 68.

<u>Depth in feet below land surface</u>	<u>Geologic description</u>
0 - 2	Sand, white, fine grained.
5	Sand, tan, and shell fragments.
10	Silt, gray with white shell fragments.
12	Clay, gray, silt and shell fragments, marl.
16	Same as above.
27	Sand, gray, silty, fewer shell fragments.
36	Shell fragments, white, tan, black.
46	Shell fragments, mostly black.
49	Sandstone pebbles, gray, some shell.
53	Sand, gray, silty, with some sandstone pebbles.
85	Sand, gray, silty sandstone pebbles, shell fragments increasing with depth.
91	Shell fragments with little silt and sand.
100	Silt, gray with shell fragments.
109	Sandstone pebbles, gray, some mica.
140	Silt, gray-green, grading to green clay.

Table 2.—Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well PG-15 E

LOCATION: East side of Shinn Road, 4 miles north of SR 70 on Helena
Chemical property.

<u>Depth in feet below land surface</u>	<u>Geologic description</u>
0 - 7	Sand, fine to medium grained.
9	Clay, sandy light green and orange, shell fragments.
17	Sand, fine grained, brown with some clay and shell.
18	Sand, fine grained.
23	Shell with some sand and clay.
25	Sand, fine grained, quartz, some shell and clay.
32	Sand, fine to medium grained, some shell and clay.
36	Sand, semi-consolidated gray, some shell and clay.
45	Same as above with increasing heavy mineral content and less clay.
52	Same as above with a few layers of dark gray sandstone pebbles.
57	Sandstone, quartz, gray to black, fine grained.
65	Same as above with traces of blue clay.
75	Sand, light gray fine-grained quartz, some clay, silt, and shell.
95	Sand quartz with dark gray silt and clay layers, some shell and a few sand and silt pebbles.
103	Same as above.
105	Clay, light gray-green, silt with sandstone pebbles and shell.
105	Clay, dark green.

Table 2.—Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well PG-21 B

LOCATION: Four miles south of SR 70, one mile east of Berman Road in Okeechobee County.

<u>Depth in feet below land surface</u>	<u>Geologic description</u>
0 - 17	Sand, white to tan.
29	Sand, black to dark tan with iron staining.
39	Silt, very fine clay and reddish sand.
49	Sand, fine grained, gray-white.
59	Sand, fine grained and silt with some gray-green clay.
69	Sand, fine grained, gray and silt, small layers of brown sand.
80	Sand, medium grained, gray.
90	Interbedded sand and clay.
100	Clay, soft green.
110	Clay, green, changing to sandy marl.
120	Clay, gray, some sand and silt.
130	Same as above, more consolidated.
140	Same as above.

Table 2.--Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well PG-28 S

LOCATION: Three miles west of Florida Turnpike, one mile north of St. Lucie-Martin County line.

<u>Depth in feet below land surface</u>	<u>Geologic description</u>
0 - 5	Sand, fine grained, white, some organic material.
8	Clay, sandy, gray-green.
12	Clay, brown, sandy, some shell.
16	Sand, fine grained, some blue-green clay and shells.
21	Shell fragments and white marl grading to whole shells and sandy green silt.
30	Shells, large, some green clay, heavy minerals.
40	Shells, small, green clay and silt, medium grained sand, mica.
50	Same as above with increasing mica, less shell.
60	Silt and fine grained sand, increasing heavy minerals.
70	Silt, light brown, fine grained, sand, shell fragments.
72	Sand, fine grained, and shell fragments.
85	Shell fragments, medium grained sand, gray sandstone pebbles, gray clay and marl.
95	Sand, fine grained, silt, small shells, mica.
105	Same as above.
123	Interbedded silt, shell, sand, and ash colored clay.
130	Shell fragments, silt, and gray clay.
140	Same as above, no clay.

Table 2.—Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well PG-31 B

LOCATION: Four miles north of SR 68, three miles east of Okeechobee -
St. Lucie County line.

<u>Depth in feet</u> <u>below land surface</u>	<u>Geologic description</u>
0 - 2	Organic overburden.
4	Sand, quartz.
10	Clay, gray-green silt, sand grading to shell.
20	Shell fragments, gray-green clay, sand.
30	Silt and fine-grained sand, some shell.
43	Shell, little sand, some large shells.
49	Shell marl, gray-green plastic clay and silt.
63	Shell fragments, some clay.
79	Shell marl, gray plastic clay.
89	Shell fragments, low percent clay and silt.
102	Clay, gray, plastic, shells, silt, sand.
105	Clay and silt, green, many shells.
108	Shell, less clay.
114	Clay, green, silt, phosphatic pebbles, shell.
129	Shell fragments, little clay.
150	Shell, tight, almost no clay.

Table 2.—Lithologic data from the Upper East Coast Planning Area (Cont'd)

Lithologic log of well PG-35 S

LOCATION: One and one-half miles northwest of SR 70, two miles west of Old Bassenger Road.

<u>Depth in feet below land surface</u>	<u>Geologic description</u>
0 - 2	Surface sands.
5	Marl, white, sandy.
8	Marl, yellowish, gray silt, some shell.
12	Marl, sandy, yellowish, gray-blue sandy silt and shell.
20	Shell fragments in marl, sandy silt.
29	Sand, fine grained, gray, with green sandy clay.
35	Sand, fine grained, gray, quartz, some shell and clay.
40	Silt, gray-green, sandy, some shell.
48	Clay, gray-green, some brown sand.
58	Shell, large to small, fragments, gypsum flakes.
65	Silt, gray-green, sandy, and clay with many shells.
75	Same as above, less clay and silt.
85	Shell with some silt, clay, sand.
95	Shell, large to small, fragments, some sand and clay.
105	Sand and silt, shell fragments, some clay.
112	Same as above, some consolidated sand beds.
122	Clay, sandy, shelly, gray and silt, marl.
130	Silt, green, sandy and clay, some shell.
138	Silt, green, and clay, more sand.
140	Clay, dark green, plastic, some sand and shell.

Table 3.--Ground-water level data from the
Upper East Coast Planning Area

Local well number	Altitude of measuring point above NGVD of 1929 (feet)	Altitude of water level above or below (-) NGVD of 1929		
		May 6-7, 1976	October 7-8, 1976	October 21, 1977
M-147	13.64	-1.42	-4.00	-4.17
M-928	36.75	26.40	30.86	-
M-933	26.17	19.77	21.47	20.70
M-1035	25.43	-	4.67	3.37
M-1036	33.91	-	14.03	13.52
M-1037	32.40	9.13	5.02	6.48
M-1041	26.95	4.73	2.99	3.48
M-1042	37.14	30.63	32.25	32.26
M-1045	25.74	2.79	.77	-
M-1046	25.91	6.87	3.32	3.68
M-1049	22.92	4.20	3.37	4.05
M-1066	34.37	7.98	5.94	6.49
M-1080	28.47	9.70	6.56	-
M-1081	29.23	14.46	12.37	13.36
M-1082	11.13	7.72	5.08	6.24
M-1085	26.31	4.08	5.41	3.86
M-1086	26.59	-	4.96	5.04

Table 3.—Ground-water level data from the Upper East Coast Planning Area (Cont'd)

Local well number	Altitude of measuring point above NGVD of 1929 (feet)	Altitude of water level above or below (-) NGVD of 1929		
		May 6-7, 1976	October 7-8, 1976	October 21, 1977
M-1004	2.57	4.88	5.69	-
M-1006	8.36	12.31	8.04	-
M-1008	11.74	7.78	-	-
M-1010	9.65	8.38	-	-
M-1011	8.35	6.67	-	-
M-1030	-	4.65	4.82	-
M-1031	10.17	7.55	-	-
M-1044	8.46	7.28	-	-
M-1047	6.34	4.16	4.07	-
M-1056	-	9.07	9.49	-
M-1058	6.30	2.96	3.16	-
M-1073	17.80	16.44	-	-
M-1074	3.56	3.34	-	-

Table 3.--Ground-water level data from the Upper East Coast Planning Area (Cont'd)

Local well number	Altitude of measuring point above NGVD of 1929 (feet)	Altitude of water level above or below (-) NGVD of 1929				
		May 17-19, 1976	September 20-22, 1976	January 4-6, 1977	April 21-26, 1977	October 24-25, 1977
PG-1	34.63	5.87	7.75	6.09	5.30	6.50
PG-2	21.68	11.63	12.59	12.83	11.88	12.60
PG-4	23.37	17.50	18.95	18.98	16.97	18.59
PG-5	22.93	15.27	18.33	17.95	16.39	17.71
PG-6	19.13	11.46	11.95	11.42	10.70	11.88
PG-7	17.18	4.93	10.65	6.18	4.81	6.10
PG-8A	16.73	13.01	14.08	14.13	12.14	13.66
PG-8B	16.97	12.96	14.77	13.37	12.18	13.39
PG-9	14.89	8.32	8.69	8.07	6.91	7.77
PG-10	19.86	12.43	14.31	12.49	11.71	14.13
PG-12	24.44	18.61	18.07	17.89	17.49	17.87
PG-13N	26.90	18.73	18.87	18.73	19.55	19.81
PG-13M	26.92	-	19.23	19.14	19.87	19.73
PG-13S	27.22	-	18.82	18.68	19.57	19.77
PG-14	25.05	17.55	17.47	17.31	17.65	18.28
PG-15E	23.99	-	21.13	15.90	16.32	16.31
PG-15W	27.11	22.07	22.11	22.41	22.53	22.57
PG-16	23.75	19.42	18.50	18.61	18.60	19.25
PG-17	25.28	19.02	18.84	20.08	19.37	19.71
PG-18	22.08	19.78	18.93	18.87	18.35	18.85

Table 3.--Ground-water level data from the Upper East Coast Planning Area (Cont'd)

Local well number	Altitude of measuring point above NGVD of 1929 (feet)	Altitude of water level above or below (-) NGVD of 1929				
		May 17-19, 1976	September 20-22, 1976	January 4-6, 1977	April 21-26, 1977	October 24-25, 1977
PG-19	24.86	22.61	22.76	22.18	20.41	21.33
PG-20	26.89	-	23.51	24.69	22.49	23.61
PG-21A	57.49	51.37	51.96	51.76	50.12	50.66
PG-21B	57.64	47.89	48.97	48.77	46.64	47.60
PG-23	14.69	6.71	7.59	8.59	6.16	7.97
PG-24B	16.16	11.61	13.59	13.12	11.21	12.09
PG-24C	16.78	11.54	14.12	13.20	11.33	12.25
PG-24D	18.80	11.28	12.78	13.34	11.74	12.15
PG-24E	37.94	10.80	11.94	12.12	11.29	12.29
PG-25	13.48	8.59	12.18	9.28	7.35	9.43
PG-26	21.92	13.67	15.32	14.22	12.52	13.80
PG-28M	24.92	-	21.82	21.50	19.21	22.68
PG-28S	23.89	-	21.49	21.12	19.03	21.24
PG-29	28.75	20.96	22.75	23.55	19.95	21.77
PG-30	22.79	18.57	18.29	17.91	16.88	18.55
PG-31A	27.96	-	24.43	21.66	22.08	24.70
PG-31B	30.16	-	24.25	26.16	21.66	24.98
PG-32	19.40	12.26	14.33	15.20	13.30	15.19
PG-35N	35.50	30.62	31.68	30.82	31.53	31.30
PG-35S	35.36	-	33.33	32.72	29.00	30.58

Table 3.--Ground-water level data from the Upper East Coast Planning Area (Cont'd)

Local well number	Altitude of measuring point above NGVD of 1929 (feet)	Altitude of water level above or below (-) NGVD of 1929				
		April 19-20, 1976	May 17, 1976	September 20-21, 1976	April 19-22, 1977	October 20, 1977
SL-41	31.41	-	-	-	12.20	-
SL-118	32.79	24.84	26.83	27.87	25.66	25.94
SL-121	30.52	-	23.93	24.63	22.30	28.17
SL-127	29.99	22.29	-	-	21.52	-
SL-130	24.60	20.01	22.90	21.01	19.57	19.75
SL-131A	23.09	19.44	22.18	22.47	20.24	19.95
SL-133	26.32	24.86	25.38	25.06	Destroyed	-
SL-135	28.60	23.46	25.07	24.75	22.36	23.69
SL-136	17.03	9.89	8.91	11.18	8.61	9.05
SL-138	38.87	-	-	-	33.01	-
SL-144	26.08	22.50	25.14	24.59	22.75	23.60
SL-150	22.19	13.69	14.08	-	14.13	-
SL-158	24.59	21.01	22.69	21.74	20.59	20.49
SL-161	29.13	24.05	27.28	25.63	23.95	24.27
SL-172	18.00	12.47	-	13.67	13.58	15.20
SL-173	9.94	5.74	6.23	7.88	-	-
SL-174	18.42	11.85	11.92	13.99	12.86	13.32
SL-175	26.00	11.56	11.54	7.65	7.10	7.55
SL-176	26.00	6.61	6.77	12.90	12.26	12.27
SL-180	29.76	22.28	22.39	22.82	19.36	20.71
SL-181	25.97	21.37	-	21.71	16.74	-
SL-183	25.11	19.82	22.89	21.78	20.02	20.83
SL-184	20.74	15.70	16.30	16.40	15.69	16.33

Table 4.--Ground-water quality data collected by the U.S. Geological Survey
in St. Lucie County, Upper East Coast Planning Area

STATION NUMBER	DATE OF SAMPLE	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	PH (UNITS)
271222080312101	76-09-28	120	29.0	120	E230	8.7
	77-02-03	1000	25.5	30	E1300	7.1
	77-04-19	1000	27.0	10	--	7.1
	77-05-19	--	--	--	270	--
271228080285301	76-09-28	155	29.5	50	E250	7.9
	77-02-11	900	20.0	250	320	--
	77-04-20	1000	26.0	50	150	6.9
271413080311201	76-09-29	1200	30.0	40	25	7.0
	77-02-10	1060	25.0	50	25	--
	77-04-19	1320	26.0	20	20	7.0
271413080311202	76-09-29	2000	31.5	10	25	7.2
	77-02-10	1720	25.0	30	20	--
	77-04-19	1980	27.0	0	45	7.1
271540080370801	74-02-26	555	--	9	--	7.4
	74-06-26	558	--	8	--	7.5
271745080154201	75-09-30	578	29.0	10	--	7.2
	76-04-20	585	26.0	5	--	7.4
	76-09-29	565	25.5	5	10	7.4
	77-02-04	580	23.0	10	--	7.2
	77-04-20	575	25.0	0	40	7.6
	78-04-14	580	24.0	40	--	7.3
	76-09-28	735	28.0	75	35	7.1
271910080342601	77-04-20	240	24.0	150	45	5.6
	76-09-29	210	29.5	200	E420	7.4
272135080243201	77-02-11	2080	19.5	130	210	--
	77-04-20	4800	31.0	50	220	6.6
	76-09-30	535	28.0	100	--	7.3
272257080214801	76-09-30	535	28.0	--	E150	7.3
	76-09-28	--	--	30	3	--
272613080242801	77-02-11	510	22.0	25	2	--
	77-04-21	550	25.0	30	3	6.9
	76-09-28	320	29.5	10	E120	8.2
	77-02-04	550	25.5	140	15	7.2
272614080242901	77-04-20	540	26.0	200	65	7.0
	76-09-29	1500	29.0	15	280	7.0
272658080210101	77-02-10	1120	24.0	15	15	--
	77-04-20	1150	26.0	0	6	7.1
	76-09-30	850	28.0	30	1	7.3
	77-02-10	750	27.0	20	3	--
	77-05-11	800	25.0	40	4	7.5
272911080251301	77-02-10	680	27.0	20	65	--
	77-04-21	720	28.0	10	30	7.2
273034080374301	77-02-10	265	28.0	30	220	--
	77-04-21	765	29.0	20	110	7.3

Table 4.--Ground-water quality data collected by the U.S. Geological Survey
in St. Lucie County, Upper East Coast Planning Area (Cont'd)

STATION NUMBER	DATE OF SAMPLE	BICARBONATE (MG/L AS HCO3)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	HARDNESS, DIS-SOLVED AS CaCO3	HARDNESS, NONCARBONATE, DIS. (MG/L CaCO3)
271222080312101	76-09-28	88	26	71	45	0
	77-02-03	344	611	576	330	47
	77-04-19	340	629	642	460	180
271228080285301	76-09-28	86	61	229	280	210
	77-02-11	317	570	505	320	61
271413080311201	77-04-20	320	663	540	320	62
	76-09-29	495	626	603	420	19
	77-02-10	492	647	599	430	25
	77-04-19	500	772	733	420	6
271413080311202	76-09-29	467	1100	1080	340	0
	77-02-10	475	1080	1090	340	0
271540080370801	77-04-19	470	1080	1090	340	0
	74-02-26	354	352	334	270	0
	74-06-26	356	358	366	280	0
	75-09-30	360	334	330	270	0
	76-04-20	351	340	335	280	0
	76-09-29	347	352	331	280	0
	77-02-04	350	347	337	280	0
271755080154201	77-04-20	390	386	383	3	0
	78-04-14	356	344	353	300	12
	76-09-28	353	435	384	310	21
	77-04-20	56	161	122	45	0
	76-09-29	73	66	87	78	18
271910080342601	77-02-11	528	1330	1190	730	290
	77-04-20	360	2670	2250	1500	1200
272135080243201	76-09-30	215	210	237	130	0
272257080214801	76-09-28	264	332	314	230	10
	77-02-11	264	326	309	220	0
	77-04-21	270	332	320	240	15
272613080242801	76-09-28	66	88	119	34	0
	77-02-04	246	308	--	--	--
272614080242901	77-04-20	250	312	296	220	18
	76-09-29	464	744	746	370	0
	77-02-10	425	665	658	300	0
	77-04-20	410	655	666	300	0
272658080210101	76-09-30	259	484	472	270	59
	77-02-10	270	463	438	280	56
	77-05-11	270	470	467	300	76
272911080251301	77-02-10	405	386	389	370	38
	77-04-21	400	419	398	390	60
273034080374301	77-02-10	89	104	108	56	0
	77-04-21	200	538	491	260	92

Table 4.—Ground-water quality data collected by the U.S. Geological Survey
in St. Lucie County, Upper East Coast Planning Area (Cont'd)

STATION NUMBER	DATE OF SAMPLE	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SULFATE DIS-SOLVED (MG/L AS SO ₄)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	
271222080312101	76-09-28	1.5	3.4	2.5	1.7	.1	
	77-02-03	80	3.3	120	62	.7	
	77-04-19	80	3.4	140	58	.7	
271228080285301	76-09-28	56	6.0	15	2.4	.1	
	77-02-11	66	3.3	140	8.2	.2	
271413080311201	77-04-20	72	3.4	160	8.5	.4	
	76-09-29	65	1.0	110	.2	.5	
	77-02-10	60	1.0	110	1.4	.3	
	77-04-19	120	4.2	170	13	.3	
271413080311202	76-09-29	270	15	360	49	.6	
	77-02-10	270	16	370	47	.4	
271540080370801	77-04-19	280	16	360	49	.4	
	74-02-26	13	2.5	12	1.1	.0	
	74-06-26	20	6.0	25	3.6	.2	
	75-09-30	9.3	2.1	8.7	.7	.0	
	76-04-20	13	2.4	11	1.3	.2	
	76-09-29	13	2.4	10	.6	.2	
	77-02-04	14	2.5	12	1.9	.1	
271755080154201	77-04-20	150	.5	11	2.0	.1	
	78-04-14	13	2.7	12	5.4	.2	
	76-09-28	26	1.3	43	2.3	.3	
	77-04-20	22	2.3	32	12	.0	
	271910080342601	76-09-29	7.3	2.8	1.7	8.1	.1
		77-02-11	150	2.4	360	120	1.0
		77-04-20	180	2.6	1200	110	1.8
272135080243201	76-09-30	29	.5	49	.3	.3	
272257080214801	76-09-28	29	.8	41	.2	.3	
	77-02-11	27	.8	42	.9	.2	
	77-04-21	28	.9	41	1.5	.2	
272613080242801	76-09-28	24	.5	46	1.8	.3	
	77-02-04	--	--	36	3.7	.2	
	77-04-20	27	.4	39	1.9	.2	
272614080242901	76-09-29	130	9.0	200	5.9	.5	
	77-02-10	120	8.5	170	4.9	.4	
	77-04-20	130	11	170	11	.2	
272658080210101	76-09-30	65	4.5	93	66	.4	
	77-02-10	50	4.1	77	57	.2	
	77-05-11	60	4.5	83	62	.2	
272911080251301	77-02-10	7.5	4.0	23	22	.5	
	77-04-21	7.8	4.2	25	26	.5	
273034080374301	77-02-10	12	11	17	1.6	.1	
	77-04-21	100	6.6	140	46	.4	

Table 4.--Ground-water quality data collected by the U.S. Geological Survey
in St. Lucie County, Upper East Coast Planning Area (Cont'd)

STATION NUMBER	DATE OF SAMPLE	ALKALINITY, TOTAL (MG/L AS CaCO ₃)	SILICA, DISSOLVED (MG/L AS SiO ₂)	CALCIUM DISSOLVED (MG/L AS Ca)	MAGNESIUM, DISSOLVED (MG/L AS Mg)
271222080312101	76-09-28	72	.6	17	.7
	77-02-03	282	17	110	13
	77-04-19	280	16	160	15
271228080285301	76-09-28	71	1.8	96	9.0
	77-02-11	260	9.7	110	11
271413080311201	77-04-20	260	15	110	12
	76-09-29	406	23	140	18
	77-02-10	404	24	140	19
	77-04-19	410	26	130	22
271413080311202	76-09-29	383	40	84	32
	77-02-10	390	40	82	32
271540080370801	77-04-19	390	40	84	32
	74-02-26	290	27	97	6.6
	74-06-26	292	28	100	7.2
	75-09-30	295	26	99	6.1
	76-04-20	288	27	100	6.9
271755080154201	76-09-29	285	27	100	6.4
	77-02-04	287	27	100	6.8
	77-04-20	320	26	.4	.4
	78-04-14	290	27	110	7.0
	76-09-28	290	14	120	2.6
	77-04-20	46	11	9.0	5.5
	77-04-20	300	25	510	47
271910080342601	76-09-29	60	.7	28	2.0
	77-02-11	433	28	230	36
272135080243201	77-04-20	300	25	510	47
	76-09-30	176	.8	48	3.1
	76-09-28	217	24	85	3.4
	77-02-11	217	24	80	3.6
	77-04-21	220	23	88	4.0
272257080214801	76-09-28	54	.1	13	.4
	77-02-04	202	16	--	--
	77-04-20	210	16	80	4.7
272614080242901	76-09-29	381	33	120	17
	77-02-10	349	33	95	15
	77-04-20	340	33	92	16
	76-09-30	212	13	90	11
272658080210101	77-02-10	221	12	94	10
	77-05-11	220	12	99	12
	77-02-10	332	8.5	74	43
272911080251301	77-04-21	330	8.3	77	46
	77-02-10	73	1.2	18	2.5
273034080374301	77-04-21	160	8.4	71	19

Table 4.--Ground-water quality data collected by the U.S. Geological Survey
in St. Lucie County, Upper East Coast Planning Area (Cont'd)

STATION NUMBER	DATE OF SAMPLE	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, ORTHO. TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
271222080312101	76-09-28	6.4	.08	.13	13
	77-02-03	5.2	.01	.55	14
	77-05-19	4.8	.03	2.4	--
271228080285301	76-09-28	5.7	.02	.09	10
	77-02-11	8.9	.02	.02	19
271413080311201	77-04-20	17	.05	3.9	--
	76-09-29	4.8	.04	.04	25
	77-02-10	3.9	.03	.04	20
	77-04-19	4.1	.02	.04	--
271413080311202	76-09-29	3.0	.01	.01	10
	77-02-10	2.9	.01	.02	8.0
	77-04-19	2.8	.01	.02	--
271540080370801	76-09-29	1.7	.11	.18	4.0
	77-04-20	.40	.12	.16	--
271755080154201	76-09-28	14	.16	.33	21
	77-04-20	41	.12	.12	--
271910080342601	76-09-29	6.3	.08	.20	16
	77-02-11	8.0	.00	.01	17
	77-04-20	14	.01	.85	--
	76-09-30	4.3	.01	.03	24
272257080214801	76-09-28	2.6	.17	.19	8.0
	77-02-11	2.9	.16	.16	10
	77-04-21	2.3	.16	.17	--
272613080242801	76-09-28	3.1	.01	.03	10
	77-02-04	2.7	.04	.04	12
272614080242901	77-04-20	2.7	.01	.05	--
	76-09-29	3.7	.14	.61	19
	77-02-10	2.7	.31	.31	11
	77-04-20	2.5	.13	.19	--
272658080210101	76-09-30	2.8	.17	.17	15
	77-02-10	2.0	.16	.16	8.0
	77-05-11	2.3	.15	.15	7.0
272911080251301	77-02-10	3.1	.01	.02	3.0
	77-04-21	.60	.00	.02	--
273034080374301	77-02-10	62	.03	.06	5.0
	77-04-21	47	.03	.46	--

Table 4.--Ground-water quality data collected by the U.S. Geological Survey
in St. Lucie County, Upper East Coast Planning Area (Cont'd)

STATION NUMBER	DATE OF SAMPLE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)
271222080312101	76-09-28	.24	.08	.02	1.1	1.3	1.4
	77-02-03	.14	.01	.03	1.0	1.1	1.1
	77-05-19	.15	.00	.00	.93	1.0	1.0
271228080245301	76-09-28	.06	.01	.02	1.2	1.2	1.2
	77-02-11	.84	.01	.06	1.1	1.9	2.0
271413080311201	77-04-20	.86	.01	.00	3.0	3.8	3.8
	76-09-29	.45	.01	.00	.62	1.0	1.0
	77-02-10	.46	.00	.00	.41	.87	.87
	77-04-19	.48	.00	.00	.45	.93	.93
271413080311202	76-09-29	.46	.01	.00	.20	.66	.67
	77-02-10	.48	.00	.00	.17	.65	.65
	77-04-19	.47	.00	.00	.16	.63	.63
271540080370801	76-09-29	.37	.01	.00	.00	.37	.38
	77-04-20	.02	.00	.00	.06	.08	.08
271755080154201	76-09-28	1.5	.01	.01	1.6	3.1	3.1
	77-04-20	7.1	.05	.00	2.0	9.1	9.1
271910080342601	76-09-29	.08	.04	.00	1.3	1.3	1.4
	77-02-11	.59	.01	.01	1.2	1.7	1.8
	77-04-20	.75	.01	.00	2.5	3.2	3.2
	76-09-30	.42	.01	.00	.55	.97	.98
272257080214801	76-09-28	.38	.01	.01	.19	.57	.59
	77-02-11	.37	.00	.00	.28	.65	.65
	77-04-21	.20	.00	.00	.32	.52	.52
272613080242801	76-09-28	.23	.01	.00	.47	.70	.71
	77-02-04	.34	.01	.00	.27	.61	.62
272614080242901	77-04-20	.36	.00	.02	.24	.60	.62
	76-09-29	.01	.01	.00	.82	.83	.84
	77-02-10	.34	.00	.00	.26	.60	.60
	77-04-20	.08	.00	.00	.48	.56	.56
272658080210101	76-09-30	.38	.01	.00	.24	.62	.63
	77-02-10	.36	.00	.00	.10	.46	.46
272911080251301	77-05-11	.36	.00	.01	.14	.50	.51
	77-02-10	.06	.00	.00	.63	.69	.69
	77-04-21	.04	.00	.00	.10	.14	.14
273034080374301	77-02-10	12	.01	.02	1.9	13	13
	77-04-21	7.8	.04	.00	2.7	10	10

Table 5.—Ground-water quality data collected by the U.S. Geological Survey
in Martin County, Upper East Coast Planning Area

STATION NUMBER	DATE OF SAMPLE	TEMPERATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	ALKA-LINITY (MG/L AS CAC03)	BICAR-BONATE (MG/L AS HC03)	HARD-NESS (MG/L AS CAC03)
265731080222701	75-08-20	25.5	55	572	7.9	7.1	289	352	180
265819080063301	75-02-12	25.5	5	640	7.6	12	246	300	250
265820080060901	75-02-13	27.0	100	100	6.0	26	13	16	17
265825080054301	75-02-12	27.0	40	350	7.5	10	164	200	160
265850080071001	75-02-13	26.0	5	310	7.8	7.5	243	296	240
265903080340801	75-08-14	26.5	220	680	7.5	19	302	368	230
265920080163901	76-05-10	--	70	800	7.3	29	295	360	310
270002080063201	75-12-19	27.0	10	420	7.9	3.6	148	180	150
270002080063202	75-12-19	25.5	5	460	7.3	28	282	344	190
270117080070301	75-12-19	25.5	5	480	8.2	2.8	230	280	210
270239080114901	76-05-11	26.0	30	--	--	--	340	415	470
270320080073301	75-01-30	28.0	30	520	7.4	17	220	268	180
270331080182201	75-08-14	27.0	40	680	7.8	15	479	584	300
270440080332501	76-05-11	--	35	675	7.9	6.4	262	320	280
270543080084701	75-01-30	26.5	20	340	7.9	3.4	138	168	100
270820080111901	75-01-30	25.0	40	920	7.3	33	341	416	370
270853080101401	75-01-30	25.0	30	--	7.5	18	295	360	790
270917080365701	75-11-18	26.5	50	3900	8.0	1.5	79	96	590
270931080403801	75-08-14	25.5	90	685	7.3	30	312	380	270
270947080114401	75-01-31	25.0	20	25500	7.6	11	220	268	3800
270947080342001	75-08-14	24.0	11	700	7.5	22	359	438	320
270951080335501	75-08-14	25.5	450	470	7.0	46	236	288	250
270951080335502	75-08-14	25.5	75	270	6.7	47	121	148	120
271018080125101	75-01-31	26.5	30	670	7.6	14	286	349	220
271018080125102	75-01-31	26.5	30	600	7.8	8.0	259	316	230
271019080155101	75-01-31	25.0	20	530	7.6	12	253	308	260
271120080141501	75-06-06	28.0	5	570	7.2	29	246	300	260
	76-09-04	25.0	5	590	7.1	40	256	312	290
271146080150201	74-05-05	25.0	0	3350	7.8	4.8	156	190	590
	74-05-23	25.5	20	39000	8.1	2.3	148	180	4500
	74-06-06	25.0	5	51000	7.7	4.9	125	152	6300
271147080163901	75-01-31	24.5	20	670	7.8	16	512	624	310
271322080143501	75-01-31	34.0	10	530	7.9	5.3	217	264	240
271358080160101	75-01-31	27.0	100	115	5.9	64	26	32	21
271441080162101	75-01-31	25.0	100	105	6.0	45	23	28	14
271442080141801	75-01-31	32.0	1400	290	7.6	3.9	79	96	94

Table 5.—Ground-water quality data collected by the U.S. Geological Survey
in Martin County, Upper East Coast Planning Area (Cont'd)

STATION	NUMBFR	DATE OF SAMPLE	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	SODIUM PERCENT	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
265731080222701		75-08-20	0	60	6.3	45	1.5	36	1.4	82
265819080063301		75-02-12	8	96	3.3	26	.7	18	3.9	58
265820080060901		75-02-13	4	3.5	2.1	8.5	.9	50	.9	15
265825080054301		75-02-12	0	62	1.7	7.3	.3	9	.9	10
265850080071001		75-02-13	1	94	1.9	14	.4	11	.6	11
265903080340801		75-08-14	0	82	5.7	57	1.6	35	.7	37
265920080163901		76-05-10	15	110	9.0	46	1.1	24	1.0	90
270002080063201		75-12-19	2	58	1.5	17	.6	20	1.2	28
270002080063202		75-12-19	0	72	3.0	17	.5	16	1.0	26
270117080070301		75-12-19	0	78	2.7	17	.5	15	1.1	24
270239080114901		76-05-11	130	160	16	130	2.6	38	4.6	220
270320080073301		75-01-30	0	66	4.2	33	1.1	28	1.1	16
270331080102201		75-08-14	0	110	5.8	29	.7	17	1.1	36
270440080332501		76-05-11	17	100	7.2	38	1.0	23	2.3	64
270543080084701		75-01-30	0	38	1.7	30	1.3	39	.7	17
270820080111901		75-01-30	25	130	9.9	55	1.3	25	2.0	91
270853080101401		75-01-30	500	170	89	810	13	68	23	1600
270917080365701		75-11-18	510	84	80	520	9.7	67	14	--
270931080403801		75-08-14	0	92	9.2	33	.9	21	1.4	46
270947080114401		75-01-31	3600	330	730	6200	44	77	230	11000
270947080342001		75-08-14	0	110	12	18	.4	11	2.9	20
270951080335501		75-08-14	11	92	4.2	8.6	.2	7	3.7	8.6
270951080335502		75-08-14	0	42	2.7	5.9	.2	10	2.0	8.2
271018080125101		75-01-31	0	82	3.3	54	1.6	35	1.4	29
271018080125102		75-01-31	0	84	4.3	36	1.0	26	1.0	27
271019080155101		75-01-31	8	97	4.4	30	.8	20	1.6	43
271120080141501		75-06-06	15	100	2.6	17	.5	13	1.3	24
		76-09-04	34	110	2.8	18	.5	12	1.8	28
271146080150201		74-05-05	430	93	87	550	9.9	66	24	1000
		74-05-23	4400	160	1000	8400	54	77	650	15000
		74-06-06	6200	540	1200	11000	60	78	420	20000
271147080163901		75-01-31	0	110	8.5	55	1.4	28	2.6	75
271322080143501		75-01-31	26	93	2.4	17	.5	13	.9	20
271358080160101		75-01-31	0	6.9	1.0	13	1.2	56	.4	15
271441080162101		75-01-31	0	3.7	1.1	18	2.1	73	.5	21
271442080141801		75-01-31	15	35	1.4	15	.7	26	1.4	8.3

Table 5.—Ground-water quality data collected by the U.S. Geological Survey
in Martin County, Upper East Coast Planning Area (Cont'd)

STATION NUMBER	DATE OF SAMPLE	SULFATE DIS-SOLVED (MG/L AS SO ₄)	FLUORIDE DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SiO ₂)	IRON, DIS-SOLVED (UG/L AS FE)	STRONTIUM, DIS-SOLVED (UG/L AS SR)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)
265731080222701	75-08-20	1.4	.7	17	20	900	353	388	.48
265819080063301	75-02-12	15	.1	12	3300	430	355	366	.48
265820080060901	75-02-13	6.5	.0	4.4	2700	70	58	52	.08
265825080054301	75-02-12	1.2	.0	5.7	1900	210	190	190	.26
265850080071001	75-02-13	.0	.1	14	480	690	274	278	.37
265903080340801	75-08-14	8.9	.4	13	950	400	404	387	.55
265920080163901	76-05-10	.0	.3	13	8800	0	514	450	--
270002080063201	75-12-19	11	.1	3.2	30	320	230	209	--
270002080063202	75-12-19	12	.1	9.4	0	400	246	310	--
270117080070301	75-12-19	.3	.1	4.4	280	310	266	266	--
270239080114901	76-05-11	130	.2	18	920	1600	933	886	--
270320080073301	75-01-30	7.5	.3	18	330	680	263	279	.36
270331080182201	75-08-14	1.6	.4	12	160	650	390	485	.53
270440080332501	76-05-11	2.2	.3	16	20	0	412	390	--
270543080084701	75-01-30	7.2	.1	5.6	90	250	193	183	.26
270820080111901	75-01-30	11	.4	23	560	1000	554	529	.75
270853080101401	75-01-30	85	.2	19	1700	1400	2980	2980	4.05
270917080365701	75-11-18	200	.8	9.7	570	46000	2030	--	--
270931080403801	75-08-14	1.6	.4	17	2000	550	380	390	.52
270947080114401	75-01-31	1500	.4	8.3	990	3400	20600	20100	28.0
270947080342001	75-08-14	.2	.2	22	150	630	385	402	.52
270951080335501	75-08-14	11	.4	6.7	9400	400	305	287	.41
270951080335502	75-08-14	2.7	.2	8.5	1000	230	156	146	.21
271018080125101	75-01-31	17	.1	12	130	640	380	372	.52
271018080125102	75-01-31	10	.2	10	640	640	330	330	.45
271019080155101	75-01-31	4.8	.3	6.7	1100	650	341	341	.46
271120080141501	75-06-06	19	.3	12	320	340	324	325	--
	76-09-04	21	.2	12	--	600	360	348	.49
271146080150201	74-05-05	210	1.0	16	--	--	2100	2070	2.86
	74-05-23	1600	1.6	9.3	--	--	26900	26900	36.6
	74-06-06	2800	1.3	11	--	--	36500	36000	49.6
271147080163901	75-01-31	3.4	.3	22	100	730	442	585	.60
271322080143501	75-01-31	27	.1	9.8	20	630	286	301	.39
271358080160101	75-01-31	3.3	.1	7.3	1800	70	80	65	.11
271441080162101	75-01-31	6.0	.1	10	1900	80	100	76	.14
271442080141801	75-01-31	38	.1	4.7	9600	340	156	161	.21

Table 6.--Ground-water quality data collected by the South Florida Water Management District in the Upper East Coast Planning Area

STATION	NUMBR	DATE OF SAMPLE	PH (UNITS)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)
272608080191001		76-05-25	5.99	26.27	16.74	23.0	3.1
272532080303301		76-05-20	7.09	97.62	8.99	222.0	6.2
270804080202201		76-05-20	6.08	27.60	1.33	5.0	12.8
272924080222101		76-05-20	5.65	2.96	2.16	18.0	8.9
272907080212301		76-05-20	6.10	9.47	3.87	30.5	8.3
272622080220301		76-05-20	6.75	140.50	6.31	143.0	5.3
272423080215701		76-05-19	6.47	7.47	1.70	5.0	9.6
272106080174301		76-05-19	6.51	77.16	6.77	137.0	3.8
271929080211101		76-05-19	6.71	64.69	6.64	209.5	5.4
272400080262901		76-05-20	7.16	148.30	6.50	303.0	10.0
272941080260301		76-05-20	7.15	116.00	8.07	247.5	9.2
273302080265801		76-05-20	7.33	97.79	12.22	185.0	10.3
273306080330504		76-05-20	6.94	157.30	29.94	572.0	17.3
273021080331301		76-05-20	6.99	229.80	44.99	512.5	20.8
272605080282001		76-05-20	7.15	114.00	17.21	253.5	14.7
272744080304601		76-05-20	6.97	225.50	36.77	576.5	18.9
272349080314501		76-05-20	6.95	276.80	23.99	194.5	10.0
272118080342301		76-05-20	7.24	154.10	23.99	348.0	10.1
271836080370901		76-05-20	7.11	202.90	21.91	282.0	12.8
271357080404901		76-05-20	6.35	1.85	0.85	5.0	6.9
271536080170001		76-05-19	4.61	10.63	2.99	45.0	13.6
271745080175901		76-05-19		30.42	2.94	54.0	6.4
271802080193901		76-05-19	6.52	86.64	9.82	228.0	15.6
272037080313701		76-05-19	7.06	37.58	4.65	115.0	7.0
271317080283503		76-05-19	7.05	127.00	2.48	188.0	13.7
271640080304701		76-05-19	6.85	114.00	6.59	314.5	9.6
271834080222201		76-05-19	7.02	63.69	3.13	284.0	11.7
273210080213001		76-05-20	6.46	9.30	9.41	35.0	15.7
272133080394101		76-05-18	6.74	130.70	7.14	393.0	15.6
272106080174302		76-05-19	7.04	114.40	4.24	294.0	12.0
271357080404902		76-05-20	6.92	110.50	4.37	309.0	18.2
271731080163801		76-05-19	5.94	6.31	2.99	41.0	7.6
271731080163802		76-05-19	7.04	86.35	2.07	306.5	9.8
271745080162601		76-05-19	5.80	10.45	4.33	103.5	10.7
271745080160901		76-05-25	5.93	2.83	5.30	5.0	7.2
272608080191001		76-09-28	5.89	18.85	16.69	17.0	2.5
272532080303301		76-09-22	6.75	88.01	15.79	136.8	7.5
270804080202201		76-09-22	4.33	26.99	1.76	3.5	12.6
272924080222101		76-09-24	5.21	3.00	2.70	15.2	8.3
272907080212301		76-09-24	7.09	9.78	3.85	32.9	7.8

Table 6.—Ground-water quality data collected by the South Florida Water Management District in the Upper East Coast Planning Area (Cont'd)

STATION NUMBER	DATE OF SAMPLE	PH (UNITS)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SILICA (SI02) (MG/L)
272622080220301	76-09-22	6.92	277.10	15.37	269.7	9.3
272423080215701	76-09-22	5.70	1.97	1.76	5.9	9.2
272106080174301	76-09-22	6.52	71.90	9.50	109.4	5.6
271929080211101	76-09-28	6.26	7.90	2.23	90.7	9.8
272400080262901	76-09-24	7.17	130.40	11.50	359.0	17.8
272941080260301	76-09-24	7.26	116.90	13.07	255.2	13.0
273302080265801	76-09-24	7.46	91.14	10.56	170.3	12.6
273306080330504	76-09-27	6.95	105.50	33.70	637.4	33.3
273021080331301	76-09-27	7.04	240.80	61.10	570.6	40.7
272605080282001	76-09-24		85.20	18.77	403.4	19.9
272744080304601	76-09-27	5.77	232.30	45.28	593.1	36.5
272349080314501	76-09-27	6.90	254.20	28.30	243.7	12.6
272118080342301	76-09-24	6.98	124.30	28.13	352.8	16.3
271836080370901	76-09-23	6.97	150.90	26.64	352.8	18.0
271357080404901	76-09-23	4.61	11.65	0.80	5.9	7.6
271536080170001	76-09-22	5.57	5.71	1.42	20.4	11.3
271745080175901	76-09-22	6.79	44.83	5.59	109.8	11.6
271802080193901	76-09-22	7.02	92.87	3.46	217.1	19.3
272037080313701	76-09-22	6.94	47.80	2.27	134.3	10.0
271317080283503	76-09-22	7.09	118.30	2.61	217.8	16.4
271640080304701	76-09-22	7.08	100.50	4.10	307.1	15.3
271834080222201	76-09-24	7.22	89.42	5.63	318.9	13.8
273606080375001	76-09-28	7.33	95.37	4.95	350.7	17.6
273210080213001	76-09-24	6.31	11.65	3.17	42.6	10.9
272133080394101	76-09-23	7.12	83.32	8.23	419.6	29.0
272106080174302	76-09-22	7.03	109.30	6.44	350.0	18.1
271357080404902	76-09-23	7.10	109.10	4.53	363.9	30.3
271731080163801	76-09-26	5.47	3.83	1.42	25.3	7.5
271731080163802	76-09-22	7.38	249.20	17.50	899.5	13.7
271745080162601	76-09-22	5.66	5.39	4.48	45.7	11.2
271745080160901	76-09-28	5.49	3.83	3.80	8.7	5.3
273306080330502	76-09-27	7.84	167.20	24.04	310.6	12.9
273306080330503	76-09-27	7.39	149.90	46.05	668.9	38.3
272605080281902	76-09-24	7.18	139.80	46.81	577.9	41.8
271744080162601	76-09-22	7.01	115.00	2.61	380.9	13.6
271317080283502	76-09-22	6.97	82.77	2.83	100.0	19.6
271317080283504	76-09-22	7.69	56.58	4.06	170.7	16.6
273606080375002	76-09-28	7.12	82.38	10.82	324.8	16.1
272133080394102	76-09-23	6.37	100.00	100.00	100.0	16.9
272532080303301	77-04-26	6.22	65.33	19.97	116.5	6.9

Table 6.—Ground-water quality data collected by the South Florida Water Management District in the Upper East Coast Planning Area (Cont'd)

STATION	NUMFR	DATE OF SAMPLE	PH (UNITS)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)
272924080222101		77-04-26	5.02	3.06	2.73	12.5	7.5
272907080212301		77-04-26	5.77	8.27	4.47	38.0	7.0
272622080220301		77-04-26	6.88	200.70	12.32	172.0	10.1
272423080215701		77-04-27	5.35	3.06	0.81	9.0	8.9
272106080174301		77-04-25	6.88	86.93	6.05	205.5	4.9
272106080174302		77-04-25	7.05	116.70	6.84	245.0	16.5
271929080211101		77-04-25	6.75	56.19	9.04	201.5	5.7
272400080262901		77-04-22	7.08	142.70	7.55	280.0	14.3
272941080260301		77-04-26	7.21	108.30	12.95	232.5	10.7
273302080265801		77-04-26	7.43	95.12	11.28	154.5	11.2
272133080394102		77-04-22	7.05	128.30	7.34	350.0	27.0
273021080331301		77-04-21	7.04	227.20	60.90	468.0	36.1
272605080282001		77-04-22	7.21	117.00	19.39	100.0	18.8
272605080281902		77-04-22	7.12	210.60	48.19	365.0	40.7
272744080304601		77-04-21	7.02	206.30	40.70	522.5	33.2
272349080314501		77-04-21	6.93	273.00	28.53	189.0	10.9
272118080342301		77-04-27	7.15	147.70	27.61	310.5	14.3
271836080370901		77-04-22	7.00	176.60	25.20	274.0	15.7
271357080404901		77-04-22	4.89	3.06	0.78	5.5	6.7
271357080404902		77-04-22	7.12	107.70	4.10	262.0	30.7
271536080170001		77-04-25	5.28	3.06	1.48	5.0	10.3
271731080163801		77-04-25	5.22	3.06	1.48	9.0	6.7
271731080163802		77-04-25	7.29	80.46	2.35	193.5	13.0
271745080162601		77-04-25	5.51	4.96	4.97	41.5	10.2
271745080160901		77-04-25	5.68	3.07	2.31	5.0	4.9
271744080162601		77-04-25	7.29	113.20	2.77	264.0	12.1
271802080193901		77-04-27	7.21	67.06	1.94	174.5	17.2
272037080313701		77-04-27	6.99	79.67	3.18	211.0	20.0
271317080283502		77-04-28	7.33	82.35	2.10	212.5	13.2
271640080304701		77-04-28	6.89	99.85	4.26	245.5	13.1
271834080222201		77-04-26	7.14	103.00	5.34	247.0	11.7
273606080375001		77-04-21	7.21	91.18	18.64	345.0	32.7
273606080375002		77-04-21	7.26	115.60	5.51	286.0	15.9
273210080213001		77-04-26	5.78	81.25	6.76	78.5	10.9
272133080394101		77-04-22	7.16	113.00	5.59	298.5	17.8
273306080330502		77-04-21	7.60	164.30	25.62	249.0	11.8
273306080330503		77-04-21	7.00	262.60	91.57	686.0	46.8
273306080330504		77-04-21	6.96	136.20	33.51	515.5	31.2
271317080283502		77-10-17	7.37	79.85	1.97	220.5	19.2
271640080304701		77-10-17	7.00	96.70	3.80	260.0	14.1

Table 6.—Ground-water quality data collected by the South Florida Water Management District in the Upper East Coast Planning Area (Cont'd)

STATION NUMBER	DATE OF SAMPLE	PH (UNITS)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNE-SIUM (MG) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	DIS-SOLVED SILICA (SiO2) (MG/L)
271802080193901	77-10-17	7.29	66.22	1.84	183.5	17.9
271536080170001	77-10-17	5.34	3.27	1.48	16.0	10.3
271731080163802	77-10-17	7.32	78.47	2.38	201.0	13.6
271731080163801	77-10-17	5.46	3.00	1.53	11.5	6.6
271744080162601	77-10-17	7.07	114.60	2.27	348.0	12.9
271745080162601	77-10-17	5.88	3.85	2.84	32.0	9.4
271745080160901	77-10-17	5.68	6.72	2.03	6.0	5.1
272106080174302	77-10-17	6.95	116.30	6.18	313.5	18.0
272106080174301	77-10-17	7.06	73.51	3.79	169.0	5.6
271929080211101	77-10-17	6.92	64.24	8.13	213.0	6.8
272037080313701	77-10-18	6.91	79.76	2.46	218.5	20.7
272423080215701	77-10-18	4.39	3.68	2.03	5.0	8.9
272622080220301	77-10-18	6.84	273.10	13.33	216.5	10.9
272532080303301	77-10-18	6.64	65.59	18.52	121.5	7.2
272608080191001	77-10-18	6.14	34.21	33.87	10.0	2.7
273210080213001	77-10-18	6.65	9.08	3.27	26.5	10.4
272924080222101	77-10-18	5.34	3.00	2.46	13.0	7.3
272907080212301	77-10-18	6.16	10.26	3.94	33.5	6.9
272941080260301	77-10-18	7.31	106.70	10.99	226.0	11.3
273302080265801	77-10-18	7.46	86.50	10.32	163.5	11.9
271834080222201	77-10-19	7.11	105.90	5.37	249.0	12.5
272400080262901	77-10-19	7.47	156.10	7.65	301.0	15.8
272605080281902	77-10-19	7.31	201.80	47.64	375.5	39.8
272605080281901	77-10-19	7.56	116.30	19.00	347.5	20.0
272118080342301	77-10-19	7.51	150.40	24.86	389.0	15.4
271836080370901	77-10-19	7.12	172.10	26.19	313.5	17.7
272349080314501	77-10-19	7.25	276.10	27.62	197.0	12.4
272744080304601	77-10-19	7.24	205.20	39.68	554.5	33.9
272133080394102	77-10-20	7.32	131.30	7.23	389.0	25.8
272133080394101	77-10-20	7.43	119.90	4.75	265.0	19.3
271357080404901	77-10-20	5.04	3.00	0.79	10.0	6.9
271357080404902	77-10-20	7.25	104.20	3.89	239.0	30.8
273606080375001	77-10-20	7.16	97.97	26.34	374.0	57.3
273606080375002	77-10-20	7.42	108.00	4.75	256.5	18.2
273306080330502	77-10-20	7.86	150.60	30.25	415.5	17.3
273306080330504	77-10-20	8.15	184.60	49.17	704.5	36.3
273306080330503	77-10-20	7.41	137.60	33.10	504.0	32.1
273021080331301	77-10-20	7.29	223.00	57.56	450.0	35.5

Table 6.--Ground-water quality data collected by the South Florida Water Management District in the Upper East Coast Planning Area (Cont'd)

STATION NUMBER	DATE OF SAMPLE	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
271802080193901	77-10-17	19.80	1.04	25.4	13.3
271536080170001	77-10-17	12.82	0.66	16.2	13.8
271731080163802	77-10-17	14.52	0.62	20.7	13.3
271731080163801	77-10-17	19.12	0.56	26.4	15.8
271744080162601	77-10-17	26.44	0.99	41.6	15.8
271745080162601	77-10-17	21.33	2.07	27.4	25.8
271745080160901	77-10-17	5.50	1.29	8.3	27.0
272106080174302	77-10-17	48.41	1.05	90.4	19.3
272106080174301	77-10-17	54.71	0.77	90.6	24.5
271929080211101	77-10-17	46.87	1.11	54.2	6.5
272037080313701	77-10-18	21.33	0.89	20.3	5.3
272423080215701	77-10-18	9.41	0.62	21.3	7.8
272622080220301	77-10-18	83.82	4.29	215.9	385.8
272532080303301	77-10-18	111.50	5.15	207.8	70.5
272608080191001	77-10-18	341.50	16.92	534.8	240.3
273210080213001	77-10-18	21.67	1.05	32.5	15.9
272924080222101	77-10-18	12.82	2.17	16.0	13.3
272907080212301	77-10-18	5.67	0.46	7.5	9.9
272941080260301	77-10-18	97.62	1.80	190.6	32.5
273302080265801	77-10-18	26.61	0.62	96.5	16.4
271834080222201	77-10-19	9.75	0.41	22.9	10.7
272400080262901	77-10-19	34.44	0.74	95.5	45.8
272605080281902	77-10-19	398.70	8.31	647.6	315.1
272605080281901	77-10-19	123.50	2.60	181.3	60.1
272118080342301	77-10-19	144.20	2.40	290.6	41.9
271836080370901	77-10-19	158.00	2.97	311.7	158.8
272349080314501	77-10-19	179.00	1.98	592.4	203.0
272744080304601	77-10-19	150.70	4.51	171.9	253.8
272133080394102	77-10-20	12.82	1.36	15.8	8.1
272133080394101	77-10-20	9.24	1.67	12.3	6.8
271357080404901	77-10-20	3.06	6.82	10.9	7.1
271357080404902	77-10-20	8.56	2.38	8.2	6.8
273606080375001	77-10-20	160.40	10.23	208.6	29.4
273606080375002	77-10-20	26.78	0.74	42.6	5.5
273306080330502	77-10-20	112.00	6.76	201.3	151.0
273306080330504	77-10-20	274.00	12.27	398.0	69.2
273306080330503	77-10-20	124.60	4.77	109.2	95.7
273021080331301	77-10-20	271.00	4.53	314.2	5.0

Table 6.—Ground-water quality data collected by the South Florida Water Management District in the Upper East Coast Planning Area (Cont'd)

STATION NUMBER	DATE OF SAMPLE	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
272924080222101	77-04-26	9.94	2.00	17.2	5.0
272907080212301	77-04-26	5.15	0.38	7.4	5.0
272622080220301	77-04-26	69.11	5.28	172.1	239.2
272423080215701	77-04-27	4.99	0.55	13.4	5.0
272106080174301	77-04-25	47.42	1.07	91.7	
272106080174302	77-04-25	41.84	0.79	90.7	5.0
271929080211101	77-04-25	47.58	1.11	54.2	5.0
272400080262901	77-04-22	33.86	0.78	97.6	16.3
272941080260301	77-04-26	91.45	2.51	176.5	17.5
273302080265801	77-04-26	27.16	0.72	109.4	12.6
272133080394102	77-04-22	13.45	1.28	16.6	5.0
273021080331301	77-04-21	255.60	8.55	340.4	500.4
272605080282001	77-04-22	127.10	4.32	193.0	244.1
272605080281902	77-04-22	381.50	12.77	655.1	241.6
272744080304601	77-04-21	156.60	7.11	178.1	195.6
272349080314501	77-04-21	164.60	2.98	579.4	21.3
272118080342301	77-04-27	147.10	4.00	304.5	169.4
271836080370901	77-04-22	148.20	4.45	305.3	
271357080404901	77-04-22	3.56	6.46	12.4	5.0
271357080404902	77-04-22	6.75	1.99	23.2	5.0
271536080170001	77-04-25	9.78	0.82	17.2	5.0
271731080163801	77-04-25	14.72	0.44	25.3	5.0
271731080163802	77-04-25	12.49	0.57	21.2	5.8
271745080162601	77-04-25	22.70	2.55	34.3	7.6
271745080160901	77-04-25	4.03	0.57	6.8	5.0
271744080162601	77-04-25	27.00	0.90	42.9	21.3
271802080193901	77-04-27	19.99	0.89	26.3	5.0
272037080313701	77-04-27	19.35	0.52	21.4	5.0
271317080283502	77-04-28	15.52	1.15	22.4	5.0
271640080304701	77-04-28	34.50	0.77	55.2	5.0
271834080222201	77-04-26	6.43	0.37	12.4	11.3
273606080375001	77-04-21	103.80	8.21	125.1	7.6
273606080375002	77-04-21	26.21	0.92	41.3	5.1
273210080213001	77-04-26	40.72	2.29	82.1	115.9
272133080394101	77-04-22	11.53	1.22	14.5	5.0
273306080330502	77-04-21	58.91	5.74	98.0	239.2
273306080330503	77-04-21	586.00	18.82	714.9	637.9
273306080330504	77-04-21	131.40	7.48	119.6	92.2
271317080283502	77-10-17	17.59	0.77	21.3	12.8
271640080304701	77-10-17	33.25	0.69	54.9	13.3

Table 6.--Ground-water quality data collected by the South Florida Water Management District in the Upper East Coast Planning Area (Cont'd)

STATION	NUMBR	DATE OF SAMPLE	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
272622080220301		76-09-22	82.90	11.33	294.7	403.1
272423080215701		76-09-22	8.36	0.53	20.1	7.8
272106080174301		76-09-22	68.93	1.01	134.7	42.3
271929080211101		76-09-28	59.83	1.24	45.6	14.2
272400080262901		76-09-24	42.41	1.08	98.1	139.4
272941080260301		76-09-24	91.06	2.19	200.8	31.1
273302080265801		76-09-24	29.07	0.76	104.2	24.2
273306080330504		76-09-27	122.70	4.77	146.5	33.9
273021080331301		76-09-27	306.10	5.13	408.6	977.7
272605080282001		76-09-24	125.50	2.75	191.9	58.0
272744080304601		76-09-27	186.20	5.33	301.0	327.3
272349080314501		76-09-27	181.40	1.97	577.5	190.6
272118080342301		76-09-24	165.40	3.37	398.2	43.2
271836080370901		76-09-23	174.50	3.18	375.9	172.5
271357080404901		76-09-23	3.18	8.46	17.1	5.0
271536080170001		76-09-22	19.65	0.95	17.1	5.0
271745080175901		76-09-22	23.26	0.93	23.5	10.1
271802080193901		76-09-22	26.72	1.34	36.3	6.3
272037080313701		76-09-22	15.10	0.54	22.3	306.5
271317080283503		76-09-22	32.52	0.91	132.5	353.0
271640080304701		76-09-22	34.56	0.91	59.6	5.0
271834080222201		76-09-24	7.57	0.49	19.1	13.4
273606080375001		76-09-28	25.93	0.63	40.1	7.0
273210080213001		76-09-24	24.21	0.88	34.9	10.3
272133080394101		76-09-23	14.01	1.29	17.1	5.0
272106080174302		76-09-22	43.51	0.94	101.3	5.0
271357080404902		76-09-23	8.20	2.06	8.7	5.0
271731080163801		76-09-28	20.44	0.53	27.0	5.0
271731080163802		76-09-22	12.91	0.64	53.6	5.0
271745080162601		76-09-22	25.15	2.08	32.0	9.9
271745080160901		76-09-28	3.80	1.60	7.1	20.5
273306080330502		76-09-27	55.75	3.05	98.1	5.0
273306080330503		76-09-27	235.40	7.75	352.0	189.4
272605080281902		76-09-24	397.20	9.13	722.4	192.7
271744080162601		76-09-22	25.30	0.90	55.7	5.0
271317080283502		76-09-22	22.25	1.48	28.8	5.0
271317080283504		76-09-22	46.80	3.42	76.6	10.3
273606080375002		76-09-28	48.69	2.35	71.9	6.5
272133080394102		76-09-23	32.99	7.80		
272532080303301		77-04-26	104.80	6.55	220.9	52.4

Table 6.—Ground-water quality data collected by the South Florida Water Management District in the Upper East Coast Planning Area (Cont'd)

STATION NUMBER	DATE OF SAMPLE	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
272608080191001	76-05-25	283.50	15.17	368.3	212.8
272532080303301	76-05-20	101.00	8.86	146.7	61.0
270804080202201	76-05-20	7.59	1.11	16.9	69.5
272924080222101	76-05-20	14.97	0.99	18.9	6.9
272907080212301	76-05-20	7.59	1.03	10.1	6.9
272622080220301	76-05-20	53.02	3.23	112.8	177.6
272423080215701	76-05-19	14.15	0.59	18.9	6.4
272106080174301	76-05-19	61.71	1.11	132.7	27.0
271929080211101	76-05-19	63.35	0.99	58.9	8.7
272400080262901	76-05-20	37.93	0.85	96.6	29.5
272941080260301	76-05-20	87.80	1.47	169.7	
273302080265801	76-05-20	39.48	0.92	130.7	22.4
273306080330504	76-05-20	127.00	5.01	132.5	106.2
273021080331301	76-05-20	269.60	4.46	265.2	482.8
272605080282001	76-05-20	139.40	2.75	196.6	58.4
272744080304601	76-05-20	177.80	4.53	165.6	327.3
272349080314501	76-05-20	162.70	1.83	526.9	201.7
272118080342301	76-05-20	163.70	2.29	316.8	37.3
271836080370901	76-05-20	174.30	3.44	356.4	201.7
271357080404901	76-05-20	5.95	6.33	19.4	5.0
271536080170001	76-05-19	22.35	1.11	23.4	5.0
271745080175901	76-05-19	38.42	1.06	48.8	30.0
271802080193901	76-05-19	110.90	2.84	186.6	5.0
272037080313701	76-05-19	9.56	0.54	19.2	5.6
271317080283503	76-05-19	45.97	0.80	165.6	5.6
271640080304701	76-05-19	58.43	1.42	93.3	5.0
271834080222201	76-05-19	8.58	0.79	16.8	5.1
273210080213001	76-05-20	28.75	0.89	45.4	5.0
272133080394101	76-05-18	33.83	2.14	27.4	5.0
272106080174302	76-05-19	46.46	0.89	94.5	5.0
271357080404902	76-05-20	7.76	2.60	9.4	5.0
271731080163801	76-05-19	27.11	1.40	45.0	5.0
271731080163802	76-05-19	11.22	0.87	23.6	5.0
271745080162601	76-05-19	19.93	1.47	38.4	10.4
271745080160901	76-05-25	37.91	2.46	61.6	20.5
272608080191001	76-09-28	199.00	15.49	320.2	151.8
272532080303301	76-09-22	89.96	4.63	177.1	47.4
270804080202201	76-09-22	9.45	1.56	20.7	69.0
272924080222101	76-09-24	16.20	2.24	14.2	11.8
272907080212301	76-09-24	6.32	0.48	6.7	6.7

Table 6.--Ground-water quality data collected by the South Florida Water Management District in the Upper East Coast Planning Area (Cont'd)

STATION NUMBER	DATE OF SAMPLE	DIS-SOLVED NITRITE (NO ₂) (MG/L)	DIS-SOLVED NITRATE (NO ₃) (MG/L)	DIS-SOLVED AMMONIA (NH ₄) (MG/L)	DIS-SOLVED ORTHO. PHOSPHORUS (P) (MG/L)
271802080193901	77-10-17	0.004		0.27	0.010
271536080170001	77-10-17	0.010	0.004	0.09	0.034
271731080163802	77-10-17	0.004	0.004	0.44	0.173
271731080163801	77-10-17	0.004	0.004	0.55	0.040
271744080162601	77-10-17	0.004	0.004	1.61	0.285
271745080162601	77-10-17	0.019		7.03	0.051
271745080160901	77-10-17	0.007	0.007	0.20	0.006
272106080174302	77-10-17	0.004	0.004	0.81	0.396
272106080174301	77-10-17	0.263		0.14	0.002
271929080211101	77-10-17	0.004	0.004	0.20	0.002
272037080313701	77-10-18	0.004	0.004	0.25	0.008
272423080215701	77-10-18	0.004	0.004	0.01	0.020
272622080220301	77-10-18	0.017	0.370	0.35	0.010
272532080303301	77-10-18	0.004	0.004	1.42	
272608080191001	77-10-18	0.004	4.939	0.01	0.005
273210080213001	77-10-18	0.004	0.004	0.87	0.019
272924080222101	77-10-18	0.004	0.004	0.30	0.016
272907080212301	77-10-18	0.004	0.012	0.03	0.040
272941080260301	77-10-18	0.004	0.004	0.39	0.002
273302080265801	77-10-18	0.004	0.004	0.45	0.002
271834080222201	77-10-19	0.004	0.004	0.15	0.002
272400080262901	77-10-19	0.004	0.004	0.12	0.002
272605080281902	77-10-19	0.004	0.004	0.50	0.016
272605080281901	77-10-19	0.007	0.008	0.28	0.006
272118080342301	77-10-19	0.004	0.004	0.86	0.002
271836080370901	77-10-19	0.004	0.004	0.32	0.002
272349080314501	77-10-19	0.005	0.004	0.57	0.002
272744080304601	77-10-19	0.004	0.005	0.55	0.018
272133080394102	77-10-20	0.018	0.004	0.33	0.165
272133080394101	77-10-20	0.005	0.004	0.31	0.243
271357080404901	77-10-20	0.004	0.004	0.81	0.018
271357080404902	77-10-20	0.004	0.004	0.33	0.577
273606080375001	77-10-20	0.004	0.044	2.75	0.330
273606080375002	77-10-20	0.005	0.004	0.66	0.004
273306080330502	77-10-20	0.038	0.004	0.50	0.102
273306080330504	77-10-20	0.004	0.007	0.01	1.101
273306080330503	77-10-20	0.004	0.004	0.60	0.057
273021080331301	77-10-20	0.004	0.004	0.99	0.037

Table 6.—Ground-water quality data collected by the South Florida Water Management District in the Upper East Coast Planning Area (Cont'd)

STATION NUMBER	DATE OF SAMPLE	DIS-SOLVED NITRITE (NO ₂) (MG/L)	DIS-SOLVED NITRATE (NO ₃) (MG/L)	DIS-SOLVED AMMONIA (NH ₄) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)
272924080222101	77-04-26	0.008	0.008	0.41	0.024
272907080212301	77-04-26	0.004	0.008	0.13	0.031
272622080220301	77-04-26	0.004	0.008	0.50	0.002
272423080215701	77-04-27	0.004	0.008	0.03	0.007
272106080174301	77-04-25	0.024	0.093	0.27	0.068
272106080174302	77-04-25	0.004	0.008	1.58	0.450
271929080211101	77-04-25	0.004	0.188	0.26	0.023
272400080262901	77-04-22	0.004	0.008	0.17	0.002
272941080260301	77-04-26	0.004	0.008	0.43	0.003
273302080265801	77-04-26	0.004	0.008	0.43	0.004
272133080394102	77-04-22	0.005	0.008	0.25	0.113
273021080331301	77-04-21	0.004	0.008	1.08	0.052
272605080282001	77-04-22	0.004	0.008	0.30	0.005
272605080281902	77-04-22	0.004	0.024	0.64	0.035
272744080304601	77-04-21	0.004	0.008	0.70	0.034
272349080314501	77-04-21	0.004	0.008	0.63	0.002
272118080342301	77-04-27	0.004	0.008	0.73	0.017
271836080370901	77-04-22	0.004	0.008	0.36	0.002
271357080404901	77-04-22	0.004	0.008	0.82	0.020
271357080404902	77-04-22	0.004	0.008	0.29	0.484
271536080170001	77-04-25	0.020		0.24	0.056
271731080163801	77-04-25	0.004	0.008	0.65	0.016
271731080163802	77-04-25	0.004	0.008	0.46	0.162
271745080162601	77-04-25	0.023	0.008	6.10	0.088
271745080160901	77-04-25	0.006	0.014	0.10	0.026
271744080162601	77-04-25	0.004	0.008	1.89	0.246
271802080193901	77-04-27	0.004	0.008	0.36	0.028
272037080313701	77-04-27	0.004	0.008	0.30	0.061
271317080283502	77-04-28	0.004	0.013	0.67	0.008
271640080304701	77-04-28	0.004	0.008	0.75	0.079
271834080222201	77-04-26	0.004	0.008	0.20	0.002
273606080375001	77-04-21	0.014	0.056	3.06	0.080
273606080375002	77-04-21	0.004	0.008	0.95	0.003
273210080213001	77-04-26	0.005	0.008	0.92	0.017
272133080394101	77-04-22	0.004	0.008	0.32	0.199
273306080330502	77-04-21	0.005	0.008	0.48	0.051
273306080330503	77-04-21	0.015		2.02	0.086
273306080330504	77-04-21	0.006	0.257	0.86	0.049
271317080283502	77-10-17	0.004	0.004	0.60	0.002
271640080304701	77-10-17	0.004	0.004	0.51	0.005

Table 6.--Ground-water quality data collected by the South Florida Water Management District in the Upper East Coast Planning Area (Cont'd)

STATION NUMBER	DATE OF SAMPLE	DIS-SOLVED NITRITE (NO ₂) (MG/L)	DIS-SOLVED NITRATE (NO ₃) (MG/L)	DIS-SOLVED AMMONIA (NH ₄) (MG/L)	DIS-SOLVED ORTHO. PHOSPHORUS (P) (MG/L)
272622080220301	76-09-22	0.031	0.681	0.18	0.003
272423080215701	76-09-22	0.004	0.009	0.05	0.019
272106080174301	76-09-22	0.007	0.185	0.26	0.015
271929080211101	76-09-28	0.009	0.004	0.14	0.080
272400080262901	76-09-24	0.005	0.020	0.11	0.002
272941080260301	76-09-24	0.005	0.070	0.42	0.003
273302080265801	76-09-24	0.004	0.032	0.44	0.015
273306080330504	76-09-27	0.012		0.51	0.020
273021080331301	76-09-27	0.006	0.015	0.90	0.022
272605080282001	76-09-24	0.005	0.014	0.29	0.010
272744080304601	76-09-27	0.007	0.018	0.80	0.012
272349080314501	76-09-27	0.004	0.016	0.66	0.002
272118080342301	76-09-24	0.008	0.015	1.80	0.031
271836080370901	76-09-23	0.004	0.017	0.39	0.003
271357080404901	76-09-23	0.004	0.019	0.79	0.010
271536080170001	76-09-22	0.025	0.013	0.14	0.056
271745080175901	76-09-22	0.006	0.030	0.36	0.011
271802080193901	76-09-22	0.015	0.018	0.36	0.073
272037080313701	76-09-22	0.010	0.014	0.20	0.059
271317080283503	76-09-22	0.004	0.060	0.62	0.047
271640080304701	76-09-22	0.007	0.018	0.50	0.140
271834080222201	76-09-24	0.004	0.011	0.21	0.003
273606080375001	76-09-28	0.004	0.004	1.12	0.007
273210080213001	76-09-24	0.007	0.119	1.00	0.107
272133080394101	76-09-23	0.007	0.017	0.29	0.100
272106080174302	76-09-22	0.004	0.004		0.323
271357080404902	76-09-23	0.004	0.054	0.33	0.334
271731080163801	76-09-28	0.004	0.016	0.65	0.006
271731080163802	76-09-22	0.004	0.016	0.44	0.133
271745080162601	76-09-22	0.013	0.008	7.39	0.069
271745080160901	76-09-28	0.005	0.019	0.67	0.014
273306080330502	76-09-27	0.004	0.015	0.01	0.003
273306080330503	76-09-27	0.023	0.004	1.58	0.046
272605080281902	76-09-24	0.009	0.013	0.43	0.047
271744080162601	76-09-22	0.008	0.014	0.01	0.047
271317080283502	76-09-22	0.004		0.90	0.005
271317080283504	76-09-22	0.011	0.011	0.02	0.016
273606080375002	76-09-28	0.010	0.014	0.04	0.003
272133080394102	76-09-23	0.011	0.013	3.39	0.257
272532080303301	77-04-26	0.004	0.008	1.31	0.066

Table 6.--Ground-water quality data collected by the South Florida Water Management District in the Upper East Coast Planning Area (Cont'd)

STATION NUMBER	DATE OF SAMPLE	DIS-SOLVED NITRITE (NO ₂) (MG/L)	DIS-SOLVED NITRATE (NO ₃) (MG/L)	DIS-SOLVED AMMONIA (NH ₄) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)
272608080191001	76-05-25	0.314	2.562	0.42	0.047
272532080303301	76-05-20	0.004	0.004	0.63	0.036
270804080202201	76-05-20	0.009	0.303	0.71	0.412
272924080222101	76-05-20	0.007	0.004	0.14	0.056
272907080212301	76-05-20	0.004	0.004	0.12	0.008
272622080220301	76-05-20	0.004	0.029	0.46	0.003
272423080215701	76-05-19	0.013	0.004	0.02	0.011
272106080174301	76-05-19	0.019	0.054	0.51	0.008
271929080211101	76-05-19	0.006	0.018	0.60	0.006
272400080262901	76-05-20	0.004	0.004	0.15	0.002
272941080260301	76-05-20	0.004	0.004	0.41	0.002
273302080265801	76-05-20	0.005	0.546	0.69	0.002
273306080330504	76-05-20	0.005	0.004	0.12	0.002
273021080331301	76-05-20	0.004	0.010	0.73	0.002
272605080282001	76-05-20	0.004	0.004	0.42	0.002
272744080304601	76-05-20	0.004	0.004	0.44	0.002
272349080314501	76-05-20	0.004	0.036	0.84	0.002
272118080342301	76-05-20	0.004	0.004	3.68	0.002
271836080370901	76-05-20	0.004	0.004	0.35	0.002
271357080404901	76-05-20	0.008	0.025	0.92	0.096
271536080170001	76-05-19	0.004	0.019	0.40	0.006
271745080175901	76-05-19			0.01	0.002
271802080193901	76-05-19	0.004	0.283	0.46	0.006
272037080313701	76-05-19	0.008	0.009	0.04	0.015
271317080283503	76-05-19	0.004	0.009	0.76	0.002
271640080304701	76-05-19	0.005	0.024	1.04	0.002
271834080222201	76-05-19	0.004	0.165	0.28	0.002
273210080213001	76-05-20	0.017	0.010	0.97	0.007
272133080394101	76-05-18	0.004	3.146	0.54	0.011
272106080174302	76-05-19	0.004	0.004	1.47	0.054
271357080404902	76-05-20	0.004	0.018	0.20	0.007
271731080163801	76-05-19	0.004	0.027	0.25	0.056
271731080163802	76-05-19	0.004	0.120	1.21	0.012
271745080162601	76-05-19			7.90	0.069
271745080160901	76-05-25	0.022	0.007	0.05	0.087
272608080191001	76-09-28	0.100	2.590	0.27	0.041
272532080303301	76-09-22	0.004	0.035	0.89	0.051
270804080202201	76-09-22	0.004	0.012		0.007
272924080222101	76-09-24	0.007	0.004	0.30	0.014
272907080212301	76-09-24	0.004	0.004	0.11	0.052