



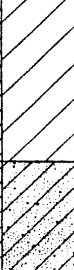

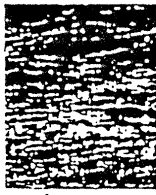


 olsen associates, inc. Coastal Engineering		PROJECT:			CORE NO.:		
		BREVARD COUNTY SAND SEARCH			27		
		DRILLER:		DATE OF HOLE:			
		A.O.S.S.		7/25/89 7:15			
LOG BY:		O.A. REP.:					
F.I.T. Civil/Bacchus		Wm. Buckingham, P.E.					
DEPTH OF WATER: 44.1'		X- 636857					
DEPTH OF HOLE: 16.8'		Y- 1416553					
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS	
	1		Shell clay, fine to 1 in whole shell & shell frags, little fine to med qtz sand, gray (GC)	100%			
	2		Clay, firm, trace fine qtz sand, trace shell, fine to 1/4 in shell frags, gray (CH)				
	3						
	4		3.3 to 3.8', local shell zone				
	5						
	6					6.3' cut	
	7			100%			
	8						
	9						
	10		10.4-10.5 local shell zone				
	11		10.8-11.1 local shell zone				
	12			100%		11.8' cut	
	13						
	14		Clay, organic, trace shell, fine to 1/4 in shell frags, dark gray to black, (OL)				
	15						
	16					16.8' cut	
	17		TD 16.8'				
	18						
	19						
	20						

 olsen associates, inc. Coastal Engineering		PROJECT:			CORE NO.:	
		BREVARD COUNTY SAND SEARCH			28	
		DRILLER:		DATE OF HOLE:		
		A.O.S.S.		7/25/89 11:08		
LOG BY:		O.A. REP.:				
F.I.T. Civil/Bacchus		Wm. Buckingham, P.E.				
DEPTH OF WATER: 22.7'		X- 631608				
DEPTH OF HOLE: 20.0'		Y- 1410100				
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS
	1		Sand, fine qtz sand, trace whole & broken shell up to 1/2 in, little clay, lt gray (SC)	100%	1 (2.0')	
	2		Shell sand, fine qtz sand, little whole & broken shells up to 1 1/2 in, little clay, lt gray (SC)			
	3					
	4					
	5		Sand, fine qtz sand, little whole & broken shells up to 1 1/2 in, little clay, lt gray (SC)		2 (6.0')	7.6' cut
	6		5.9'-6.1' local shell zone			
	7					
	8					
	9		Shell sand, fine qtz sand, little whole & broken shells up to 1 1/2 in, trace clay, lt gray (SW)	100%	3 (8.5')	
	10					
	11					
	12					
	13		Sandy clay, little whole & broken shell up to 1 in, little fine qtz, sandy zones, little clay, gray (CL)			13.8' cut
	14					
	15					
	16					
	17		Clay, firm, trace whole & broken shells up to 1 in, gray (CH)	100%		18.5'-18.9' no sediment
	18		Sand, fine qtz sand, trace whole & broken shells up to 1 in, little clay gray (SC)			
	19		Clayey sand, fine qtz sand, little whole & broken shells up to 1 1/2 in, little clay, gray(SC)			
	20					
			TD 20.0'			20.0' cut


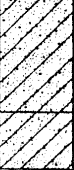



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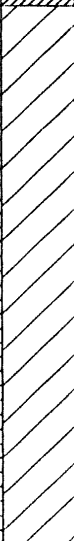
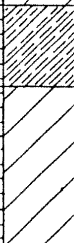
28

 olsen associates, inc. Coastal Engineering		PROJECT:			CORE NO.:		
		BREVARD COUNTY SAND SEARCH			29		
		DRILLER:		DATE OF HOLE:			
		A.O.S.S.		7/25/89 12:04			
LOG BY:		O.A. REP.:					
F.I.T. Civil/Bacchus		Wm. Buckingham, P.E.					
DEPTH OF WATER: 37.9'		X- 640281					
DEPTH OF HOLE: 20.0'		Y- 1413299					
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS	
	1		Sand, fine to medium quartz sand, little whole and broken shell up to 1 1/2 in., light gray (SP)	100%	1		
	2						
	3						
	4						
	5						
	6						
	7						
	8						
	9						
	10						
	11		Shell sand, fine to medium quartz sand, little whole and broken shells up to 1 1/2 in., little clay, gray (SC)	100%	2	6.9' cut	
	12						
	13						
	14						
	15						
	16						
	17						
	18						
	19						
	20						
			Clay, firm, trace whole and broken shell up to 1 1/2 in., gray (CH)		3	13.9' cut	
	12						
	13						
	14						
	15						
	16						
	17						
	18						
	19						
	20						
			18.1' - 18.6' local shell zone			20.1' cut	
	12						
	13						
	14						
	15						
	16						
	17						
	18						
	19						
	20						
			TD 20.1 ft.				

CORE NO.:



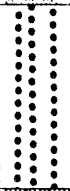

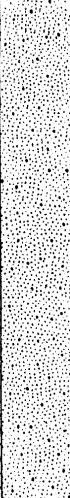


29






 olsen associates, inc. Coastal Engineering		PROJECT: BREVARD COUNTY SAND SEARCH			CORE NO.: 30	
		DRILLER: A.O.S.S.		DATE OF HOLE: 7/25/89 15:03		
		LOG BY: F.I.T. Civil/Bacchus		O.A. REP.: Wm. Buckingham, P.E.		
		DEPTH OF WATER: 30.4' DEPTH OF HOLE: 11.8'		X- 633284 Y- 1450973		
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS
	1		Sand, fine qtz sand, little whole & broken shells up to 2 in, little clay, gray (SC)	100%	1 (1.0')	6.1' cut
	2		Shell sand, fine qtz sand, little whole & broken shells up to 1 1/2 in, little clay, gray (SC)			
	3		Sand, fine qtz sand, little whole & broken shells up to 1 1/2 in, trace clay, gray (SP)	100%	2 (4.5')	
	4					
	5					
	6					
	7		Shell sand, fine qtz sand, little whole & broken shells up to 1 in, little clay, gray (SC)	100%	3 (10.0')	
	8		Clayey, sand, fine qtz sand, little whole & broken shells up to 1 in, little clay, clay zones, gray (SC)			
	9					
	10					
	11					
	12				12.3' cut	
	13		TD = 12.3 ft.			
	14					
	15					
	16					
	17					
	18					
	19					
	20					


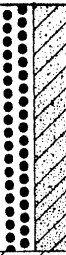
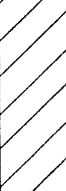


 olsen associates, inc. Coastal Engineering		PROJECT: BREVARD COUNTY SAND SEARCH			CORE NO.: 31	
		DRILLER: A.O.S.S.		DATE OF HOLE: 7/25/89 14:25		
		LOG BY: F.I.T. Civil/Bacchus		O.A. REP.: Wm. Buckingham, P.E.		
		DEPTH OF WATER: 42.2' DEPTH OF HOLE: 16.4'		X- 636253 Y- 1406303		
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS
	1		Shell clay, firm, fine to 1 1/2 in shell frag, dark gray (GC)	100%		
	2		Clay, firm, gray (CH)			
	3					
	4					
	5		Sand, clayey, very fine qtz, gray (SC)			
	6		Sandy clay, firm, fine qtz, little fine to 1/4 in shell frags, trace shell frags to 3/4 in, shelly zones, gray (CL)	100%		7.0' cut
	7		9.5 to 10.2 and 11.0 to 12.1 ft, local shell zones			
	8					
	9					
	10					
	11					
	12					
	13					12.1' cut
	14		Organic clay, med to high plasticity, dark gray to black, (OH)			
	15		Clay, very firm, trace qtz sand, little fine to 1/4 in shell frag, greenish gray (CL)			
	16					
	17		TD 16.6'			16.6' cut
	18					
	19					
	20					

CORE NO.:

31



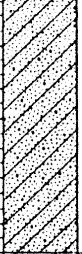
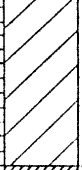
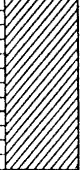
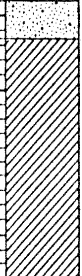
 olsen associates, inc. Coastal Engineering		PROJECT: BREVARD COUNTY SAND SEARCH			CORE NO.: 32		
		DRILLER: A.O.S.S.			DATE OF HOLE: 7/25/89 13:42		
		LOG BY: F.I.T. Civil/Bacchus			O.A. REP.: Wm. Buckingham, P.E.		
		DEPTH OF WATER: 42.2'			X- 638754		
		DEPTH OF HOLE: 13.3'			Y- 1406755		
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS	
	1		Sand, medium quartz, fine to 1/4 in. shell fragment, trace clay, gray (SP)	100%	1 (1.0')		
	2		Shell sand, mixture of fine to medium quartz sand and fine to 3/4 in. shell fragment, trace clay, gray (SW)		2 (3.5')		
	3						
	4						
			Shell clay, firm, firm to 1 1/2 in. shell fragment, gray (GC)				
	5		Sand, fine quartz, trace shell fragments to 1/2 in., trace clay, gray (SP)	100%	3 (6.0')	6.7' cut	
	6						
	7						
	8						
	9						
	10						
	11						
	12		Organic clay, firm, dark gray to black (OH)				
			Shell clay, firm, fine to 1/4 in. shell fragments, trace fine quartz sand, greenish-tan, (CL)				
	13					13.2' cut	
			TD 13.2'				
	14						
	15						
	16						
	17						
	18						
	19						
	20						

 olsen associates, inc. Coastal Engineering		PROJECT: BREVARD COUNTY SAND SEARCH			CORE NO.: 33		
		DRILLER: A.O.S.S.			DATE OF HOLE: 7/27/89 23:14		
		LOG BY: F.I.T. Civil/Bacchus			O.A. REP.: Wm. Buckingham, P.E.		
		DEPTH OF WATER: 20.0' DEPTH OF HOLE: 19.6'			X- 632411 Y- 1402233		
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS	
	1		Sand, fine qtz sand, trace whole & broken shell up to 1/2 in, little clay, gray (SC)	100%	1 (1.0')		
	2						
	3		Shell sand, fine qtz sand, little whole & broken shell up to 1 in, trace clay, gray (SW)				
	4		Sand, fine qtz sand, little whole & broken shell up to 1 in, little clay, gray (SC)				
	5				2 (5.0')		
	6						
	7		from 6.9' - 15.0' less shell material			6.9' cut	
	8			100%			
	9						
	10						
	11						
	12				3 (12.0')		
	13						
	14						
	15				15.0' cut		
	16		Sand, fine qtz, trace shell frags to 1/2 in, little clay, gray (SC)				
	17						
	18						
	19						
	20					20.3' cut	
			TD 20.3'				


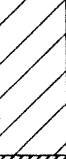

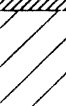




 olsen associates, inc. Coastal Engineering		PROJECT: BREVARD COUNTY SAND SEARCH			CORE NO.: 34		
		DRILLER: A.O.S.S.			DATE OF HOLE: 7/26/89 7:42		
		LOG BY: F.I.T. Civil/Bacchus			O.A. REP.: Wm. Buckingham, P.E.		
		DEPTH OF WATER: 37.8' DEPTH OF HOLE: 19.0'			X- 637269 Y- 1402792		
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS	
	1		Shell sand, fine to med qtz sand, little whole & broken shells up to 1 1/2 in, little clay, gray (SW-SC)	100%	1 (2.0')		
	2						
	3						
	4		Sand clay, little whole & broken shells up to 1 1/2 in, little fine qtz sand, little clay, gray (CL)				
	5						
	6						
	7		Shell sandy clay, little whole & broken shells up to 1 1/2 in, little fine qtz sand, little clay, gray (CH)			6.8' cut	
	8						
	9						
	10		Clay, firm, trace whole & broken shells up to 1 in, trace fine qtz sand, sandy zones, gray (CH)	100%			
	11						
	12						
	13					13.5' cut	
	14				100%		
	15						
	16						
	17			17.0' - 17.5' local shell zone			
	18					18.9' cut	
	19			TD 18.9'			
	20						

CORE NO.:

34


 olsen associates, inc. Coastal Engineering		PROJECT:			CORE NO.:		
		BREVARD COUNTY SAND SEARCH			35		
		DRILLER:		DATE OF HOLE:			
		A.O.S.S.		7/26/89 9:04			
LOG BY:		O.A. REP.:					
F.I.T. Civil/Bacchus		Wm. Buckingham, P.E.					
DEPTH OF WATER: 33.8'		X- 635015					
DEPTH OF HOLE: 18.0'		Y- 1398795					
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS	
	1		Sand, fine to medium quartz sand, little whole and broken shells up to 1 in., trace clay, gray (SP)	100%	1 (2.5')		
	2						
	3						
	4		4.1 - 4.3' local shell zone				
	5		Clayey sand, fine quartz sand, trace whole and broken shells up to 1 in., little clay, gray (SC)		2 (6.0')	7.8' cut	
	6						
	7						
	8		Shell sandy clay, little fine quartz sand, little whole and broken shells up to 1 1/2 in., little clay, gray (CL)	100%			
	9						
	10						
	11		Clay, firm, trace whole and broken shells up to 1 1/2 in., little fine quartz sands in sandy zones, gray (CH)			12.9' cut	
	12						
	13		12.8' - 13.3' - fine quartz sand, gray (SP)				
	14			100%		17.9' cut	
	15						
	16						
	17		Sand, fine quartz sand, trace clay, light gray (SP)				
	18		TD = 17.9 ft.				
	19						
	20						

CORE NO.:
35











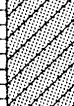
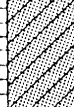


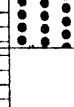
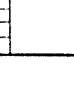

 olsen associates, inc. Coastal Engineering		PROJECT: BREVARD COUNTY SAND SEARCH			CORE NO.: 36		
		DRILLER: A.O.S.S.			DATE OF HOLE: 7/26/89 9:56		
		LOG BY: F.I.T. Civil/Bacchus			O.A. REP.: Wm. Buckingham, P.E.		
		DEPTH OF WATER: 46.5' DEPTH OF HOLE: 20.0'			X- 641678 Y- 1397089		
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS	
	1		Sandy clay, little whole & broken shells up to 2 in, little fine qtz sand, little clay, gray (CL)	100%			
	2						
	3		Clay, firm, trace whole & broken shells up to 1 in, gray (CH)				
	4						
	5						
	6					6.4' cut	
	7				100%		
	8						
	9		Sandy clay, little whole & broken shells up to 1 in, little fine qtz sand, little clay, dark gray (CL)				
	10						
	11						
	12		Clayey sand, fine qtz sand, little whole & broken shells up to 1 in, little clay, dark gray (SC)				
	13					12.9' cut	
	14		Sandy clay, little whole & broken shells up to 2 in, little fine qtz sand, little clay, dark gray (CL)				
	15						
	16		Shelly clay, little whole & broken shells up to 2 in, little clay, lt gray with a greenish tinge (GC)				
	17						
	18		Sand, med to coarse qtz sand, little whole & broken shells up to 2 1/2 in, lt gray (SP)				
	19						
	20					20.0' cut	
			TD = 20.0 ft.				


CORE NO.:

36

 olsen associates, inc. Coastal Engineering		PROJECT: BREVARD COUNTY SAND SEARCH			CORE NO.: 37		
		DRILLER: A.O.S.S.			DATE OF HOLE: 7/26/89 10:45		
		LOG BY: F.I.T. Civil/Bacchus			O.A. REP.: Wm. Buckingham, P.E.		
		DEPTH OF WATER: 27.9'			X- 635251		
DEPTH OF HOLE: 19.5'			Y- 1393900				
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS	
			Shell sand, medium to coarse quartz fine to 1/8 in. shell fragments, tan (SP)	100%	1 (0.5')		
	1		Shell sand, fine to medium, fine to 1 in. whole and broken shell, trace clay, gray (SW)				
	2						
	3						
	4		Sand, fine quartz, little fine to 3/4 in. whole and broken, shell, trace clay, gray (SP)		2 (4.0')		
	5						
	6					6.4' cut	
	7			100%			
	8						
	9				3 (8.0')		
	10						
	11		Shell sand, fine to medium, fine to 1/2 in. shell fragments, gray (SW)				
	12		Clay, firm, little fine to 1/2 in. shell fragment, trace quartz sand, dark gray (CH)			12.9' cut	
	13		Sand, fine quartz, trace fine to 1/4 in. shell fragment, shelly zones, gray (SP)	100%			
	14						
	15		Shell sand, fine sand to 1/2 in. shell fragments, gray (SW)				
	16		Shell clay, fine to 3/4 in. whole and broken shell, little fine quartz sand, sandy zones, dark gray (GC)				
	17						
	18						
	19					19.8' cut	
	20		TD 19.8				

CORE NO.:
37

 olsen associates, inc. Coastal Engineering		PROJECT:			BREVARD COUNTY SAND SEARCH		CORE NO.:	38
		DRILLER:			A.O.S.S.			
		LOG BY:			F.I.T. Civil/Bacchus			
		DATE OF HOLE:			7/26/89 11:47			
O.A. REP.:			Wm. Buckingham, P.E.					
DEPTH OF WATER: 46.0'			X- 642186					
DEPTH OF HOLE: 19.1'			Y- 1390114					
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS		
	1		Clay, firm, little fine to 1/4 in shell frags, trace qtz, dark gray (CL)	100%				
	2		Clay, firm, trace fine to 1/4 in shell frag gray (CH)					
	3							
	4							
	5							
	6							
	7					7.6' cut		
	8			100%				
	9		Sand, clayey, fine to med qtz, little fine to 3/4 in shell frags, gray (SC)					
	10		10.1-10.3' clay, firm, gray (CH)					
	11		Clay, firm, highly palstic, trace fine to 1/4 in shell frags, dark gray (CH)					
	12							
	13		Shell clay, fine to 3/4 in whole and broken shells, little shell frags to 3 1/2 in, little fine to med qtz sand, greenish gray (GC)	100%		13.8' cut		
	14							
	15							
	16							
	17		Shell sand, med to coarse qtz, fine to 1 1/2 in whole and borken shell, tan (SW)					
	18							
	19					19.5' cut		
	20		TD 19.5'					

 olsen associates, inc. Coastal Engineering	PROJECT:		BREVARD COUNTY SAND SEARCH		CORE NO.:	39	
	DRILLER:		A.O.S.S.		DATE OF HOLE:		7/26/89 12:23
	LOG BY:		F.I.T. Civil/Bacchus		O.A. REP.:		Wm. Buckingham, P.E.
	DEPTH OF WATER: 36.5'		X- 638264		Y- 1389268		
DEPTH OF HOLE: 17.4'							
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS	
	1		Sand, fine, trace fine to 1/4 in. shell fragment, trace clay, gray (SP)	100%	1 (1.0')		
	2		Shell sand, fine quartz fine to 1 1/2 in. whole and broken shell, trace clay, gray (SW)		2 (3.0')		
	3						
	4						
	5		Shell clay, firm, fine to 1 1/2 in. whole and broken shell fragments, little fine quartz sand, gray (GC)				
	6						
	7					7.2' cut	
	8		Clay, firm, trace fine to 1/4 in. shell fragments, trace firm quartz sand zones, gray (CH)	100%			
	9						
	10						
	11						
	12						
	13					12.8' cut	
	14						
	15		14.6 to 16.0 ft., sandy shell clay, fine quartz, fine to 1/4 in. shell fragments, gray, (CL)				
	16						
	17		Organic clay, firm, little carbonate, greenish gray to black (OH)			17.6' cut	
	18		TD 17.6'				
	19						
	20						

CORE NO.:

39

olsen
associates, inc.
Coastal Engineering

BREVARD COUNTY SAND SEARCH

40

A.O.S.S.





7/26/89 13:30

F.I.T. Civil/Bacchus



Wm. Buckingham, P.E.

DEPTH OF HOLE: 18.0'

Y- 1388789








ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS	
	1		Sand, fine qtz sand, little whole & broken shell up to 1 1/2 in, little clay, gray (SC) 2.0'-2.2' local shell zone	100%	1 (2.0')		
	2						
	3						
	4		shell sand, fine qtz sand, little whole & broken shell up to 1 1/2 in, little clay, gray (SC)				
	5						
	6						
	7		Sand, fine qtz sand, little whole & broken shell up to 1 1/2 in, little clay, gray (SC)		2 (7.0')		
	8						7.6' cut
	9				100%		
	10						
	11					3 (12.5')	
	12						
	13						13.3' cut
	14				100%		
	15						
	16			Shell sand, fine to med qtz sand, little & whole shells up to 1 in, gray (SW)			
	17	Sandy clay, trace whole & broken shell up to 1 in, little fine qtz, little clay, gray (CL)					
	18	Sand, fine qtz sand, little clay, (SC)					18.1' cut
	19		TD 18.1'				
	20						






40

 olsen associates, inc. Coastal Engineering		PROJECT:			CORE NO.:		
		BREVARD COUNTY SAND SEARCH					41
		DRILLER:			DATE OF HOLE:		
		A.O.S.S.			7/26/89 14:33		
LOG BY:		O.A. REP.:					
F.I.T. Civil/Bacchus		Wm. Buckingham, P.E.					
DEPTH OF WATER: 26.3'		X- 637347					
DEPTH OF HOLE: 13.1'		Y- 1384832					
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS	
	1		Sand, fine qtz sand, trace whole & broken shells to 1/2 in, little clay, gray (SC)	100%	1 (3.5')	6.5' cut	
	2		Shell sand, fine qtz sand, little whole & broken shells to 1 1/2 in, little clay, gray (SC)				
	3		Sand, fine qtz sand, little whole & broken shells to 2 in, little clay, gray (SC)				
	4						
	5						
	6						
	7						
	8		Clayey sand, fine qtz sand, trace whole & broken shells up to 1 in, little clay, gray (SC)	100%	2 (10.5')	12.4' cut	
	9						
	10		Sand, fine to med qtz sand, trace whole & broken shells up to 1 in, little clay, gray (SC)				
	11						
	12		11.9' - 12.4' local shell zone				
	13		10 12.4'				
	14						
	15						
	16						
	17						
	18						
	19						
	20						

CORE NO.:







41

 olsen associates, inc. Coastal Engineering		PROJECT: BREVARD COUNTY SAND SEARCH			CORE NO.: 42		
		DRILLER: A.O.S.S.			DATE OF HOLE: 7/26/89 16:34		
		LOG BY: F.I.T. Civil/Bacchus			O.A. REP.: Wm. Buckingham, P.E.		
		DEPTH OF WATER: 50.8' DEPTH OF HOLE: 20.0'			X- 646266 Y- 1380862		
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS	
	1		Clay, firm, trace fine to 1/4 in shell frags, shelly zones, gray (CH)	100%			
	2						
	3						
	4		Organic clay, firm, trace fine to 1/4 in shell frags trace fine qtz sand, dark gray to black (OH)	100%		6.8' cut	
	5						
	6						
	7		Clay, firm, little fine to 1/4 in shell frag, little fine qtz sand, dark gray (CL)	100%			
	8		7.6 to 8.8 ft., shell clay, fine to 2 inch whole and broken shell, greenish gray (GC)				
	9		Shell Sand, mixture of medium quartz sand and 1/2 inch whole and broken shell, little whole and broken shell to 3 inch, trace clay tan (SW)	100%		13.6' cut	
	10						
	11						
	12						
	13						
	14						
	15						
	16						
	17						
	18						
	19		Sand, clayey, very fine qtz, tan (SC)			20.1' cut	
	20		TD 20.1'				

 olsen associates, inc. Coastal Engineering	PROJECT: BREVARD COUNTY SAND SEARCH				CORE NO.: 43	
	DRILLER: A.O.S.S.				DATE OF HOLE: 7/26/89 15:51	
	LOG BY: F.I.T. Civil/Bacchus				O.A. REP.: Wm. Buckingham, P.E.	
	DEPTH OF WATER: 42.5'				X- 642282	
DEPTH OF HOLE: 14.9'				Y- 1379995		
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS
	1		Shell sand, clayey little fine qtz, fine to 3/4 in shell frags, gray (Gd)	100%		
	2					
	3					
	4		Clay, firm, plastic, trace fine to 1/2 in shell frags, gray (CH)			
	5					
	6					
	7		7.3 to 9.5' local shell zone	100%		6.5' cut
	8					
	9					
	10		Shell clay, firm, fine to 1/2 in, shell frag, trace fine qtz sand, greenish gray (GC)			
	11					
	12		Shell sand, med to coarse qtz, med to 1 1/2 in whole & broken shell, trace clay, light gray (GP)	100%		12.5' cut
	13					
	14					
	15					15.3' cut
	16		TD 15.3'			
	17					
	18					
	19					
	20					


















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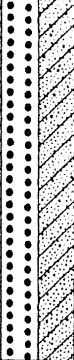
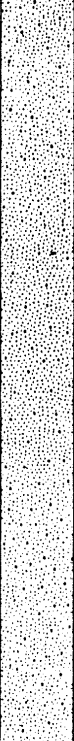
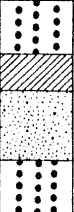

43


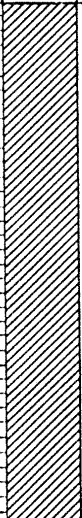


 olsen associates, inc. Coastal Engineering		PROJECT: BREVARD COUNTY SAND SEARCH		CORE NO.: 44		
		DRILLER: A.O.S.S.		DATE OF HOLE: 7/26/89 15:09		
		LOG BY: F.I.T. Civil/Bacchus		O.A. REP.: Wm. Buckingham, P.E.		
		DEPTH OF WATER: 23.3' DEPTH OF HOLE: 18.4'		X- 638450 Y- 1379071		
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS
	1		Sand, fine quartz, trace fine to 1/4 in. shell fragments, trace clay, light gray (SP)	100%	1 (1.5')	
	2		Shell sand, mixture of fine quartz and fine to 1 in. whole and broken shell, trace clay, gray (SW)		2 (3.0')	
	3					
	4		Sand, fine quartz, little fine to 3/4 in. whole and broken shell, trace clay, light gray (SP)		3 (5.5')	
	5					
	6					6.8' cut
	7					
	8		100%			
	9					
	10				4 (10.0')	
	11					
	12					12.8' cut
	13		Shell sand, mixture of fine quartz and fine to 1/2 in. whole and broken shells, trace clay, gray (SW)	100%		
	14					
	15		Sand, clayey, little fine to 1/2 in. shell fragment, gray, (SC)			
	16					
	17					
	18		Shell sand, mixture of fine quartz and fine to 1/2 in. whole and broken shells, trace clay, gray (SW)			18.2' cut
	19		TD 18.2'			
	20					


CORE NO.:





44

 olsen associates, inc. Coastal Engineering	PROJECT: BREVARD COUNTY SAND SEARCH				CORE NO.: 45	
	DRILLER: A.O.S.S.			DATE OF HOLE: 7/26/89 17:20		
	LOG BY: F.I.T. Civil/Bacchus			O.A. REP.: Wm. Buckingham, P.E.		
	DEPTH OF WATER: 42.3'			X- 643783		
	DEPTH OF HOLE: 16.2'			Y- 1373596		
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS
	1		Shell sand, fine sand to 3/4 in shell frags, little clay, gray (GC)	100%		
	2		Clay, firm, trace shell, shelly zones, gray (CL)			
	3		2.1 to 2.4 ft, sand, fine qtz, trace clay, gray (SP)			
	4		clay, firm, trace shell frags fine to 1/4 in, gray (CH)			
	5					
	6					6.5' cut
	7			100%		
	8		Sandy clay, fine qtz sand, little fine to 1/2 in shell frag, gray (CL)			
	9					
	10		Sand, fine to med qtz, trace shell fine to 1/4 in, light gray (SP)			
	11		Sand, clayey, fine to med qtz, 6 in-mercenaria, gray (SC)			11.8' cut
	12		Clay, firm, light gray (CH)	100%		
	13		Shell sand, mixture of fine to 3/4 in whole shell and shell frags, some clay (SW-SC)			
	14					
	15					
	16					16.2' cut
	17		TD 16.2'			
	18					
	19					
	20					

 olsen associates, inc. Coastal Engineering		PROJECT: BREVARD COUNTY SAND SEARCH			CORE NO.: 46		
		DRILLER: A.O.S.S.			DATE OF HOLE: 7/26/89 18:13		
		LOG BY: F.I.T. Civil/Bacchus			O.A. REP.: Wm. Buckingham, P.E.		
		DEPTH OF WATER: 23.0'			X- 640126		
		DEPTH OF HOLE: 20.0'			Y- 1372276		
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS	
	1		Shell sand, fine sand to 1/2 in. shell, little whole and broken shell, trace clay, gray (SW-SC)	100%	1 (3.0')		
	2						
	3						
	4						
	5						
	6		Sand, fine quartz, trace fine to 1/2 in. whole and broken shell, trace clay, light gray (SP)	100%	2 (8.0')	7.0' cut	
	7						
	8						
	9						
	10						
	11						
	12						
	13						
	14						
	15						
	16		Shell sand, fine quartz sand to 1/2 in. shell, trace clay, gray, (SW).	100%	3 (12.0')	14.0' cut	
			Clay, firm trace quartz sand dark gray, (Cl)				
	17		Sand, fine quartz, trace fine to 1/4 in. shell fragments, trace clay, gray, (SP)				
	18		Shell sand, fine quartz sand to 1/2 in. shell, trace clay, gray (SW)			18.6' cut	
	19		TD 18.6'				
	20						






 olsen associates, inc. Coastal Engineering		PROJECT:			CORE NO.:		
		BREVARD COUNTY SAND SEARCH					47
		DRILLER:			DATE OF HOLE:		
		A.O.S.S.			7/27/89 20:52		
		LOG BY:			O.A. REP.:		
F.I.T. Civil/Bacchus			Wm. Buckingham, P.E.				
DEPTH OF WATER: 47.0'		X- 645512					
DEPTH OF HOLE: 18.8'		Y- 1372095					
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS	
	1		Clay, firm, trace whole & broken shells up to 1 in, gray (CH)	100%		6.5' cut	
	2		0 - 0.5' local shell horizon				
	3						
	4						
	5						
	6						
	7		Sandy clay, fine to med qtz sand, trace whole & broken shells up to 1 1/2 in, little clay, gray /brown (CL)				
	8						
	9		Sand, fine to med qtz sand, trace whole & broken shells up to 1/2 in, little clay, light gray (SC)				
	10		Shell sand, med to coarse qtz sand, little whole & broken shells up to 1 1/2 in, little clay, gray (SC)				
	11		Shell sand, med to coarse qtz sand, little whole & broken shells up to 1 1/2 in, little clay, gray (SC)			13.4' cut	
	12		Shell sand, fine qtz sand and carbonate, little whole & broken shells up to 2 in, little silt, light gray (SM)				
	13						
	14						
	15						
	16						
	17						
	18						
	19		TD 19.0'			19.0' cut	
	20						








		PROJECT: BREVARD COUNTY SAND SEARCH			CORE NO.: 48		
		DRILLER: A.O.S.S.			DATE OF HOLE: 7/26/89 19:21		
		LOG BY: F.I.T. Civil/Bacchus			O.A. REP.: Wm. Buckingham, P.E.		
		DEPTH OF WATER: 36.7'			X- 642703		
DEPTH OF HOLE: 19.5'			Y- 1371042				
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS	
	1		Sandy clay, little fine qtz, little fine to 1/2 in shell frag, dark gray (CL)	100%			
	2		Shell clay, firm, fine to 1 in whole & broken shell, little shell to 2 1/2 in, trace fine qtz, dark gray (GC)				
	3						
	4						
	5						
	6						
	7		Clay, firm, trace fine qtz sand, trace fine to 1/4 in shell frag, gray (CH)	100%		7.4' cut	
	8						
	9		8.7 to 8.9 ft. and 9.3 to 9.7 ft.				
	10		sand, fine quartz, some clay, gray (SC)				
	11						
	12						
	13		12.7 to 13.7 ft., shell sand, fine to 1/2 inch shell fragment, some clay gray (GC)				
	14			100%		14.2' cut	
	15		Clay, mixture of organic and inorganic, trace fine qtz sand, light to dark gray (CH-OH)				
	16						
	17						
	18		Shell sand, med sand to 1 in shell, little white & broken shell to 3 1/2 in, some clay, light gray (GC)				
	19					19.6' cut	
	20		TD 19.6'				

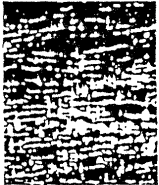
 olsen associates, inc. Coastal Engineering		PROJECT: BREVARD COUNTY SAND SEARCH			CORE NO.: 49		
		DRILLER: A.O.S.S.			DATE OF HOLE: 7/26/89 18:42		
		LOG BY: F.I.T. Civil/Bacchus			O.A. REP.: Wm. Buckingham, P.E.		
		DEPTH OF WATER: 24.3' DEPTH OF HOLE: 12.8'			X- 640684 Y- 1370302		
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS	
	1		Sand, fine qtz sand, little whole + broken shells up to 1½", little clay, gray (SC)	100%	1 (3.0')		
	2						
	3						
	4						
	5						
	6		Sand, fine qtz sand, trace whole + broken shells up to 1½", little clay, gray (SC)				
	7						
	8						
	9						
	10						
	11		Shell Sand, fine qtz sand, little whole + broken shells up to 2", little clay, gray (SC)				
			Sand, fine qtz sand, trace whole + broken shells up to 1", little clay, gray (SC)				
	12		Shell Sand, fine qtz sand, little whole + broken shells up to 2", little clay, gray (SC)				
	13		TD=12.8 ft				
	14						
	15						
	16						
	17						
	18						
	19						
	20						

CORE NO.:

49

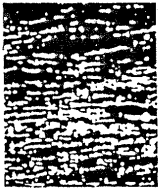

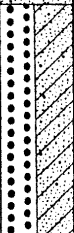
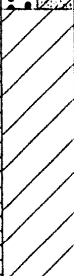

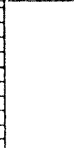
 olsen associates, inc. Coastal Engineering		PROJECT: BREVARD COUNTY SAND SEARCH				CORE NO.: 50	
		DRILLER: A.O.S.S.			DATE OF HOLE: 7/27/89 19:24		
		LOG BY: F.I.T. Civil/Bacchus			O.A. REP.: Wm. Buckingham, P.E.		
		DEPTH OF WATER: 29.0' DEPTH OF HOLE: 20.0'			X- 648530 Y- 1349701		
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS	
	1		Sand, fine qtz sand, trace whole + broken shells up to 1", little clay, gray (SC) Shell sand, fine qtz sand, little whole + broken shells up to 1½", little clay, gray (SC)	100%	1 (0.5')	Cut	
	2						
	3						
	4						
	5						
	6						
	7						
	8		Clay, firm, trace whole + broken shells up to 1", gray (CH)	100%		6.8' Cut	
	9		8.4' - 8.6' local shell zone				
	10		Sand, fine qtz sand, little whole + broken shells up to 1", little clay, gray (SC) 9.3' - 9.9' local shell zone				
	11		10.9' - 11.3' local shell zone			13.8' Cut	
	12		Clay, firm, trace whole + broken shells up to 1", sandy zones, gray (CH)				
	13						
	14						
	15						
	16		16.1' - 16.2' local shell zone			20.2' Cut	
	17		Clayey sand, fine qtz sand, little whole + broken shells up to 1", little clay, gray (SC)				
	18		Sand, fine qtz sand, little whole + broken shells up to 1", little clay, greenish gray (SC)				
	19						
	20		From 19.1' increase in shell material				
			TD = 20.2 ft				

 olsen associates, inc. Coastal Engineering		PROJECT:			BREVARD COUNTY SAND SEARCH		CORE NO.: 51	
		DRILLER:			A.O.S.S.			
		LOG BY:			F.I.T. Civil/Bacchus			
		DATE OF HOLE:			7/27/89 17:57			
O.A. REP.:			Wm. Buckingham, P.E.					
DEPTH OF WATER: 49.0'			X- 654322					
DEPTH OF HOLE: 16.7'			Y- 1348732					
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS		
			Shell sand, fine qtz sand, little whole + broken shells up to 2", little clay (SW-SC)			Cut		
	1		Organic Clay, firm, trace whole + broken shells up to 1", dark gray (OH)	100%				
	2							
	3		Clay, firm, trace whole + broken shells up to 1", trace fine qtz sand, gray (CH)					
	4							
	5		Clay, firm, little whole + broken shells up to 2", greenish gray (CH)					
	6							
	7							
	8		Shelly Clay, little whole + broken shells up to 3", light gray with greenish tinge (GC)			7.5'	Cut	
	9							
	10		Shelly Clay, little whole + broken shells up to 3", trace fine qtz sand, gray (GC)	100%				
	11							
	12		Sand, fine qtz sand, trace whole + broken shells up to 1 1/2", little clay, gray (SC)	100%		12.4'	Cut	
	13							
	14		Sand, med to coarse qtz sand, trace whole + broken shell up to 1", light gray (SP)					
	15		Shell Sand, med to coarse qtz sand, little whole + broken shells up to 1 1/2", light gray (SW)					
	16					16.8'	Cut	
	17		TD = 16.8 ft					
	18							
	19							
	20							

 olsen associates, inc. Coastal Engineering		PROJECT:			CORE NO.:		
		BREVARD COUNTY SAND SEARCH			52		
		DRILLER:		DATE OF HOLE:			
		A.O.S.S.		7/27/89 16:28			
LOG BY:		O.A. REP.:					
F.I.T. Civil/Bacchus		Wm. Buckingham, P.E.					
DEPTH OF WATER: 52.4'		X- 658601					
DEPTH OF HOLE: 17.5'		Y- 1346631					
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS	
			Clay, firm, some fine quartz sand, trace shell, dark gray (CH)	100%			
	1		Shell Sand, fine sand to 1/2" shell, little fine quartz, little shell fragments to 3", little clay, greenish gray (GC)				
	2						
	3						
	4						
	5		4.6 to 5.3 ft, clay layer, trace sand, trace shell to 1/2", greenish gray (CL)				
	6					5.9' Cut	
	7		Shell Sand, medium to coarse sand to 1/2" shell, trace fine quartz, yellowish brown (SW)	100%			
	8						
	9		Shell sand, medium to coarse sand to 1/2" shell, little broken and shell fragments to 3", little clay, gray (GC)				
	10						
	11						
	12					11.7' Cut	
	13		Sand, medium to coarse to 1/2" shell, trace fine to medium quartz, little fine to 1/2" shell fragments, tan, (SP)	100%			
	14						
	15		12.2 to 12.8 ft, 13.6 to 14.0 ft, 16.4 to 17.5 ft., localized shell zones				
	16						
	17					17.5' Cut	
	18		TD 17.5'				
	19						
	20						








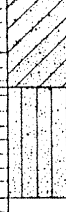
CORE NO.:

52

 olsen associates, inc. Coastal Engineering		PROJECT:			BREVARD COUNTY SAND SEARCH		CORE NO.: 53	
		DRILLER:			A.O.S.S.			
		DATE OF HOLE:			7/27/89 18:43			
		LOG BY:			F.I.T. Civil/Bacchus			
O.A. REP.:			Wm. Buckingham, P.E.					
DEPTH OF WATER: 27.5'			X- 650249			Y- 1345130		
DEPTH OF HOLE: 13.1'								
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS		
	1		Sand, fine quartz and shell fragments, trace shells to 1 1/2 in., trace clay, gray (SP).	1 (1.5')				
	2							
	3		Shell sand, fine sand to 3/4 in. whole and shell fragments, little fine quartz, little clay, gray, (SW-SC)	2 (4.0')				
	4							
	5							
	6		Clay, sandy, little fine quartz sand, fine to 1 inc. shell fragments, gray, (Cl.) 7.0 to 7.5 ft., local shell zone.			6.7' cut		
	7							
	8							
	9		9.0 to 9.6 ft., local shell zone					
	10							
	11							
	12		Sand, clayey, fine quartz, fine to 1/2 in. shell fragments, gray, (SC)			13.1' cut		
	13							
	14		TD 13.1'					
	15							
	16							
	17							
	18							
	19							
	20							



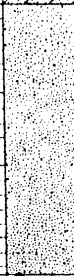
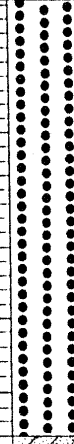


CORE NO.:

53

 olsen associates, inc. Coastal Engineering	PROJECT:		BREVARD COUNTY SAND SEARCH		CORE NO.:	54	
	DRILLER:		A.O.S.S.		DATE OF HOLE:		7/27/89 15:20
	LOG BY:		F.I.T. Civil/Bacchus		O.A. REP.:		Wm. Buckingham, P.E.
	DEPTH OF WATER: 42.4'		X- 655603		Y- 1339883		
DEPTH OF HOLE: 18.0'							
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS	
			Shell Sand, fine to med qtz sand, little whole + broken shells up to 2", little clay, gray (SW-SC) Clay, firm, trace whole + broken shells up to 1", gray (CH)	100'		Cut	
	1		Clay, firm, little whole + broken shells up to 1½", little fine to med qtz, gray (CH)	100'		7.0' Cut	
	2						
	3						
	4						
	5						
	6						
	7		Shelly clay, little whole + broken shells up to 1½", light gray with a greenish tinge (GC)	100'			
	8						
	9						
	10		Sand, fine qtz sand, trace whole + broken shells up to 1", little clay, gray (SC)	100%		13.0' Cut	
	11						
	12						
	13		Shell Sand, fine qtz sand, little whole + broken shells up to 1½", little clay, gray (SC)	100%			
	14						
	15						
	16						
	17		14.3' - 15.0' fine qtz sand				
	18						
	19		Shell sand, fine qtz sand + carbonate little whole + broken shells up to 1", rock fragments to 4", little silt, light gray (SM)			18.0' Cut	
	20						
			TD = 18.0 ft				


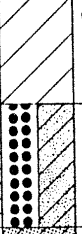
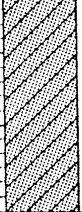

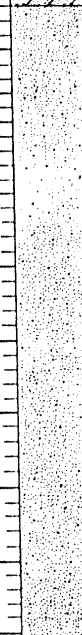
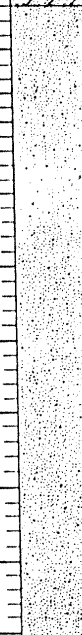
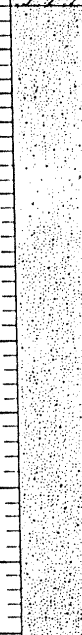
CORE NO.:






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 olsen associates, inc. Coastal Engineering		PROJECT:			CORE NO.:		
		BREVARD COUNTY SAND SEARCH			55		
		DRILLER:		DATE OF HOLE:			
		A.O.S.S.		7/27/89 13:55			
LOG BY:		O.A. REP.:					
F.I.T. Civil/Bacchus		Wm. Buckingham, P.E.					
DEPTH OF WATER: 45.2'		X- 660025					
DEPTH OF HOLE: 18.5'		Y- 1330707					
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS	
	1		Clayey sand, fine to med qtz sand little whole + broken shell up to 1", little clay, gray (SC)	100%	1 (3.0')	Cut	
	2		Shell Sand, fine to med qtz sand, little whole + broken shell up to 2", little clay, light gray (SC)				
	3						
	4						
	5		Sand, fine to med qtz sand, trace whole + broken shells up to 3/4", little clay, light gray (SC)	100%	2 (6.0')	6.8' Cut	
	6						
	7		Sand, med to coarse qtz sand, trace whole + broken shells up to 3/4", light gray (SP)	100%	3 (8.5')		
	8						
	9						
	10						
	11		Shell Sand, med to coarse qtz sand little whole + broken shells up to 1 1/2", light gray (SW)	100%	4 (14.0')	12.6' Cut	
	12						
	13						
	14						
	15						
	16						
	17		Shell sand, fine to med qtz sand, little whole + broken shells up to 2", little clay, gray (SC)	100%	5 (18.0')	19.3' Cut	
	18						
	19						
	20		TD = 19.3 ft				

CORE NO.:

55



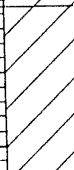
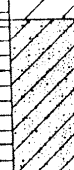

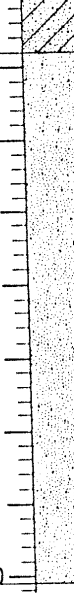
 olsen associates, inc. Coastal Engineering	PROJECT:		BREVARD COUNTY SAND SEARCH		CORE NO.:	56	
	DRILLER:		A.O.S.S.		DATE OF HOLE:		7/27/89 12:06
	LOG BY:		F.I.T. Civil/Bacchus		O.A. REP.:		Wm. Buckingham, P.E.
	DEPTH OF WATER: 41.5'		X- 664132		Y- 1321886		
DEPTH OF HOLE: 19.0'							
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS	
	1		Clay, firm, trace quartz sand, little shell fragments to 1/2", dark gray (CL)	100%	1 (2.5')		
	2		Sand, medium quartz, little fine to 1" shell fragments little clay, light gray (SW-SC)				
	3						
	4		Shell sand, medium to coarse, to 1" shell fragments, little medium quartz, little broken shell to 6", little clay greenish gray (GC)				
	5						
	6						
	7		Sand, fine to medium quartz, little shell and shell fragments to 1", little clay, gray (SC)	100%		6.2' Cut	
	8						
	9		8.5 to 9.4 ft - local shell zone				
	10		Sand, medium to coarse, quartz and shell fragments, trace shell fragments to 1/2", light gray (SP)				
	11						
	12						
	13			100%		13.0' Cut	
	14						
	15						
	16		16.3 to 18.1 ft., shelly sand				
	17						
	18						
	19		TD = 18.1'			18.1' Cut	
	20						

 olsen associates, inc. Coastal Engineering		PROJECT:			BREVARD COUNTY SAND SEARCH		CORE NO.: 57	
		DRILLER:			A.O.S.S.			DATE OF HOLE: 7/27/89 11:02
		LOG BY:			F.I.T. Civil/Bacchus			O.A. REP.: Wm. Buckingham, P.E.
		DEPTH OF WATER: 42.4'			X- 668579			Y- 1312820
DEPTH OF HOLE: 14.5'								
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS		
	1	  	Shell clay, fine to 1½' whole shell and shell fragments, little fine to medium quartz sand, gray (GC)	100%	1 (2.6')			
	2		1.3 to 1.8 ft, clay, firm, dark gray (CH)					
	3		Sand, medium to coarse quartz, little shell fine to ½", light gray (SP)					
	4							
	5		Sand, fine to medium quartz, trace shell to ¼", light gray (SP)	100%	2 (6.0')	5.4'	Cut	
	6							
	7							
	8							
	9					3 (9.0')		
	10						10.1'	Cut
	11				100%			
	12							
	13					4 (13.0')		
	14						14.5'	Cut
	15		TD 14.5'					
	16							
	17							
	18							
	19							
	20							

 olsen associates, inc. Coastal Engineering		PROJECT: BREVARD COUNTY SAND SEARCH			CORE NO.: 58	
		DRILLER: A.O.S.S.			DATE OF HOLE: 7/27/89 10:10	
		LOG BY: F.I.T. Civil/Bacchus			O.A. REP.: Wm. Buckingham, P.E.	
		DEPTH OF WATER: 41.8' DEPTH OF HOLE: 11.3'			X- 672827 Y- 1304827	
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS
	1		Shell Clay, fine to 3" whole shells and shell fragments, little fine to medium quartz sand, gray (GC)	100%		
	2		0.0 to 0.6 ft, gravelly with shell and rock fragments to 4"			
	3					
	4					
	5					
	6					
	7		Shell Sand, mixture of fine quartz and fine to 1/2" whole shell and shell fragments, little clay, dark gray, (SW)	100%	1 (7.0')	
	8					
	9		Sand, fine to medium, quartz and shell, shell fragments to 1/8", gray (SP)		2 (10.0')	
	10					
	11					
	12		TD 11.1'			
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					



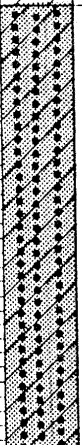
CORE NO.:

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 olsen associates, inc. Coastal Engineering		PROJECT: BREVARD COUNTY SAND SEARCH			CORE NO.: 59		
		DRILLER: A.O.S.S.			DATE OF HOLE: 7/27/89 9:18		
		LOG BY: F.I.T. Civil/Bacchus			O.A. REP.: Wm. Buckingham, P.E.		
		DEPTH OF WATER: 42.0'			X- 677305 Y- 1295989		
		DEPTH OF HOLE: 20.0'					
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS	
	1		Shelly Clay, little whole + broken shells up to 1", little clay, trace fine qtz sand, light gray (GC)	100%		Cut	
	2						
	3		Sandy Clay, little whole + broken shells up to 1/2", little fine qtz, little clay, gray (CL)				
	4		Shell Sandy Clay, little whole + broken shells up to 1 1/2", little fine qtz sand, little clay, gray (CL)				
	5						
	6						
	7		Clayey Sand, fine qtz sand, little whole + broken shells up to 1", little clay, gray (SC)	100%		7.1' Cut	
	8						
	9		9.3' - 9.7' trace med to coarse qtz sand				
	10		Shell sand, fine to med to coarse qtz sand, little whole + broken shells up to 1 1/2", trace clay, gray (SW)				
	11						
	12		Clayey Sand, fine qtz sand, trace whole + broken shells to 1/2", little clay, gray (SC) 12.6 - 12.8' local shell zone				
	13		Sand, fine to med qtz sand, trace whole + broken shells up to 1/2", trace clay, light gray (SP)	100%		13.9' Cut	
	14						
	15						
	16						
	17						
	18						
	19						
	20						
			TD = 20.1 ft			20.1' Cut	

CORE NO.:

59

 olsen associates, inc. Coastal Engineering	PROJECT: BREVARD COUNTY SAND SEARCH				CORE NO.: 60	
	DRILLER: A.O.S.S.				DATE OF HOLE: 7/27/89 8:21	
	LOG BY: F.I.T. Civil/Bacchus				O.A. REP.: Wm. Buckingham, P.E.	
	DEPTH OF WATER: 41.7'				X- 681822	
DEPTH OF HOLE: 11.5'				Y- 1287433		
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS
			Clay, firm, little shell fragments to 1/2", trace quartz sand, gray (CL)	100%		
	1		Shell Clay, fine to 1 1/2" whole shells and shell fragments, little fine to medium quartz sand, light gray. (GC)	100%		
	2					
	3					
	4					
	5					
	6					
	7		Sand, fine to medium, quartz and shell fragments, little shell fragments to 1/2", light gray (SP)	100%	1 (7.4')	6.1' Cut
	8					
	9					
	10					
	11					
	12		TD 11.5'			11.5' Cut
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					

CORE NO.:

60