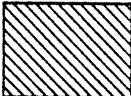
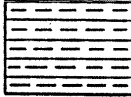




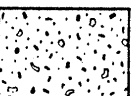
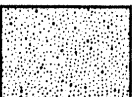

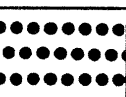


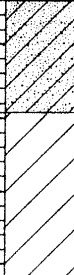




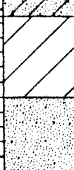
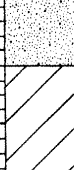

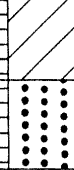
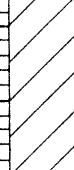
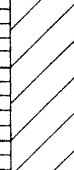
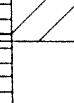























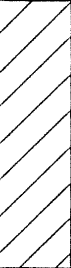

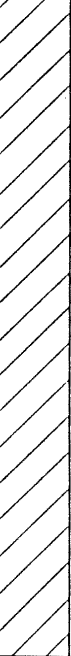

VIBRACORE LEGEND

	CH CLAY, FIRM, TRACE SHELL FRAGMENTS, GRAY		OL CLAY, ORGANIC, TRACE SHELL, DARK GRAY TO BLACK
	CL SANDY CLAY, SHELL FRAGMENTS, LITTLE FINE QUARTZ, LITTLE CLAY, GRAY		SC SAND, CLAYEY, FINE QUARTZ, SHELL FRAGMENTS, GRAY
	GC SHELLY CLAY, LITTLE CLAY, SHELL FRAGMENTS, LIGHT GRAY WITH GREENISH TINGE		SM SHELL SAND, FINE QUARTZ AND CARBONATE, LITTLE SILT, LIGHT GRAY
	GP SHELL SAND, MEDIUM TO COARSE QUARTZ, TRACE CLAY, LIGHT GRAY		SP SAND, FINE QUARTZ, TRACE CLAY, GRAY
	OH ORGANIC CLAY, FIRM, TRACE SHELL, DARK GRAY		SW SHELL, SAND, LITTLE FINE TO MEDIUM QUARTZ, DARK GRAY

 olsen associates, inc. Coastal Engineering	PROJECT: BREVARD COUNTY SAND SEARCH				CORE NO.: 1	
	DRILLER: A.O.S.S.			DATE OF HOLE: 7/17/89 15:15		
	LOG BY: F.I.T. Civil/Bacchus			O.A. REP.: Wm. Buckingham, P.E.		
	DEPTH OF WATER: 26.7'			X- 637492		
	DEPTH OF HOLE: 18.6'			Y- 1483468		
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS
	1		Sandy clay, trace whole and broken shell up to 2 in., little fine quartz, little clay, gray (CL)	100%		
	2					
	3					
	4					
	5					
	6					6.7' cut
	7					
	8					
	9					
	10			9.7' to 9.9' local shell zone		
	11			10.5' to 10.7' local shell zone	100%	
	12		Shell sand, med to coarse quartz sand and fine to 1/2 in. shell fragments, little shell to 1 1/2 in., little clay, gray (SC)			12.8' cut
	13					
	14		Sandy clay, trace whole and broken shells up to 1 1/2 in., little fine quartz little clay, gray (CL)	100%		
	15					
	16		Clay, firm, trace whole and broken shells up to 1 1/2 in. gray (CH)			
	17		15.8' to 16.0' local shell zone			
	18					18.8' cut
	19		TD 18.8 ft.			
	20					
















 olsen associates, inc. Coastal Engineering		PROJECT: BREVARD COUNTY SAND SEARCH			CORE NO.: 2		
		DRILLER: A.O.S.S.			DATE OF HOLE: 7/17/89 16:55		
		LOG BY: F.I.T. Civil/Bacchus			O.A. REP.: Wm. Buckingham, P.E.		
		DEPTH OF WATER: 21.7' DEPTH OF HOLE: 20.0'			X- 633184 Y- 1478561		
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS	
	1		Sand, clayey, fine quartz, trace fine to 1/4 in. shell fragments, gray (SC)	100%	1 (2.5')		
	2						
	3		Clay, firm, gray (CH)				
	4						
	5		Sand, clayey, fine quartz, some fine to 1/4 in. shell fragments, gray (SC)		2 (4.3')	5.1' cut	
	6						
	7		Clay, firm, trace fine quartz sand, trace fine to 1/2 in. shell fragments, gray (CL)				
	8						
	9		Sand, fine quartz, trace shell to 1/4 in., trace clay, gray (SP)		3 (7.0')		
	10						
	11		8.0 to 8.2 ft, local shell zone				
	12						
	13		Clay, firm, little fine quartz sand, little fine to 1/2 in. shell fragments, gray (CL)			10.1' cut	
	14						
	15		10.6 to 10.7 ft, local shell zone	100%			
	16						
	17		Shell sand, medium sand to 1/2 in shell, little shell to 1 in, little fine to medium quartz, dark gray (SW)				
	18						
	19		Clay, firm, trace fine quartz sand, some fine to 1/4 in shell fragments, gray (CL)	100%		15.2' cut	
	20						
			TD 20.1			20.1' cut	



 olsen associates, inc. Coastal Engineering		PROJECT: BREVARD COUNTY SAND SEARCH			CORE NO.: 3		
		DRILLER: A.O.S.S.			DATE OF HOLE: 7/17/89 19:29		
		LOG BY: F.I.T. Civil/Bacchus			O.A. REP.: Wm. Buckingham, P.E.		
		DEPTH OF WATER: 31.2'			X- 638336		
		DEPTH OF HOLE: 18.6'			Y- 1474739		
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS	
	1		Sandy clay, trace whole and broken shells up to 2 in, little fine quartz, little clay, gray (CL)	100%			
	2		Local shell zone in last 3 in of unit Sand, fine to med. quartz sand, trace shell up to 2 in, little clay, gray (SC)				
	3		Clay, firm, trace whole and broken shells up to 2 in, gray (CH)				
	4		3.6' for 1 1/2" local shell zone				
	5						
	6		5.4' - 5.6' local shell zone				
	7		6.1' - 6.3' local shell zone	100%		6.3' cut	
	8						
	9						
	10						
	11		Shell sand, fine quartz sand to 2 in shell, little whole and broken shells, little clay, gray (SW-SC)				
	12		Organic clay, firm, trace shell whole and broken shells up to 2 in dark gray (OH)	100%		12.6' cut	
	13					Rooting dispersed throughout this unit	
	14						
	15						
	16						
	17						
	18						
	19		TD 18.8 ft			18.8' cut	
	20						



 olsen associates, inc. Coastal Engineering		PROJECT:				CORE NO.:
		BREVARD COUNTY SAND SEARCH				4
		DRILLER:		DATE OF HOLE:		
		A.O.S.S.		7/17/89 20:27		
LOG BY:		O.A. REP.:				
F.I.T. Civil/Bacchus		Wm. Buckingham, P.E.				
DEPTH OF WATER: 26.3'		X- 631990				
DEPTH OF HOLE: 20.0'		Y- 1471318				
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS
	1		Sandy clay, trace whole and broken shells up to 2 in, little fine quartz, little clay, gray (CL) 1.1 ft, 2.1 ft, 3.1 ft and 3.5 ft local shell zones	100%		Articulated bivalve @ 1.6 ft.
	2					
	3					
	4		Shell sand, fine quartz sand to 2 in shell, little whole & broken shell, little clay, gray (SW-SC)			
	5		Sandy clay, trace whole and broken shells up to 2 in, little fine quartz, little clay, gray (CL)	100%		8.4' cut
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14		Clay, firm, trace whole and broken shells to 2 in gray (CH)	100%		14.8' cut
	15					
	16					
	17					
	18					
	19					
	20					
			TD 20.4 ft			20.4' cut

CORE NO.:

4





 olsen associates, inc. Coastal Engineering		PROJECT: BREVARD COUNTY SAND SEARCH			CORE NO.: 5		
		DRILLER: A.O.S.S.			DATE OF HOLE: 7/18/89 8:08		
		LOG BY: F.I.T. Civil/Bacchus			O.A. REP.: Wm. Buckingham, P.E.		
		DEPTH OF WATER: 20.8'			X- 630553		
DEPTH OF HOLE: 14.6'			Y- 1469722				
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS	
	1		Sand, fine quartz sand, trace whole and broken shell up to 2 in, little clay gray (SC)	100%			
	2		Clay, firm, gray (CH)				
	3						
	4		Sand, fine to med quartz sand, trace whole & broken shell up to 1 1/2 in, light gray (SP)				
	5		Clayey between 4.0' - 4.8' (SC)		1 (6.0')		
	6						
	7						
	8		8.2' to 8.5' numerous 1 1/2 in shells (SP)			7.7' cut	
	9		Clay, firm, trace whole & broken shell up to 1 1/2 in, gray (CH)				
	10		Sand, fine to med qtz sand, trace whole & broken shell 1 1/2 in, little clay, gray (SC)				
	11		Clay, firm, trace whole & broken shell up to 2 in, gray (CH)				
	12		Shell sand, fine sand to 1/2 in shell, trace fine to medium qtz, trace clay, little whole & broken shell up to 1 1/2 in, dark gray *SW				
	13		Clay, firm, trace whole & broken shell up to 1 1/2 in, gray (CH)				
	14					14.7' cut	
	15		TD 14.7 ft				
	16						
	17						
	18						
	19						
	20						

 olsen associates, inc. Coastal Engineering		PROJECT: BREVARD COUNTY SAND SEARCH			CORE NO.: 6		
		DRILLER: A.O.S.S.			DATE OF HOLE: 7/18/89 9:08		
		LOG BY: F.I.T. Civil/Bacchus			O.A. REP.: Wm. Buckingham, P.E.		
		DEPTH OF WATER: 35.8'			X- 636092		
		DEPTH OF HOLE: 19.5'			Y- 1466002		
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS	
	1		Sand, fine to med, quartz & shell, little shell & shell frags to 2 in., little clay, gray (SC)	100%			
	2		1.0 - 1.1', shell sand (SW-SC)				
	3		Clay, firm, trace whole & broken shells up to 2 in, gray (CH)				
	4		Shell sand, fine qtz sand, little shell & shell frags to 2 in, little clay, gray (SC)				
	5		Clay, firm, trace whole & broken shells up to 2 in., gray (CH)				
	6						
	7		Clay, firm, trace fine qtz, trace shell whole & broken shells up to 2 in., sandy zones, gray (CH)	100%			
	8						
	9						
	10						
	11						
	12						
	13						
	14		Shell sand, fine to med qtz sand, little shell & shell frags up to 2 in., little clay, gray (SC)	100%		12.7' cut	
	15						
	16	Clay, firm, trace fine qtz sand, little whole & broken shells up to 2 in, sandy zones, gray (CH)					
	17						
	18						
	19		19.4' to 19.8' sand, med to coarse qtz sand, trace shell, little clay (SC)			19.8' cut	
	20		TD 19.8 ft				

 olsen associates, inc. Coastal Engineering		PROJECT: BREVARD COUNTY SAND SEARCH			CORE NO.: 7		
		DRILLER: A.O.S.S.			DATE OF HOLE: 7/18/89 10:03		
		LOG BY: F.I.T. Civil/Bacchus			O.A. REP.: Wm. Buckingham, P.E.		
		DEPTH OF WATER: 29.1' DEPTH OF HOLE: 20.0'			X- 631043 Y- 1462764		
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS	
	1		Sandy clay, fine trace fine quartz, whole and broken shell frags to 1/2 in, med gray (CL)	100%			
	2		Clay, firm, trace fine quartz sands trace whole & broken shell frags to 2 in, med to dark gray (CH)				
	3						
	4						
	5						
	6						
	7		6.7 to 7.0 ft, local shell zone			7.1' cut	
	8			100%			
	9		8.6' to 9.3 ft, local shell zone				
	10						
	11						
	12						
	13					13.8' cut	
	14			100%			
	15						
	16						
	17		17.0' to 17.6', local shell, zone				
	18						
	19						
	20					20.1' cut	
			TD 20.1'				



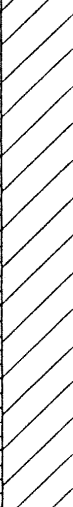

CORE NO.:

7

 olsen associates, inc. Coastal Engineering		PROJECT: BREVARD COUNTY SAND SEARCH			CORE NO.: 8	
		DRILLER: A.O.S.S.		DATE OF HOLE: 7/18/89 11:22		
		LOG BY: F.I.T. Civil/Bacchus		O.A. REP.: Wm. Buckingham, P.E.		
		DEPTH OF WATER: 18.3' DEPTH OF HOLE: 18.3'		X- 628899 Y- 1462704		
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS
	1		Sand, fine to medium, quartz and shell, trace whole and broken shells to 1/2 in., light to medium gray (SP)	100%	1 (2.5')	
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9		Shell sand, fine sand to 1 in. shell, little whole and broken shell fragments, little fine quartz, little clay, gray (SP-SC)		3 (9.0')	
	10					
	11					
	12					
	13					
	14		Clay, firm, trace whole and broken shell to 3 in., dark gray (CH)			13.6' cut
	15					
	16					
	17					
	18					
	19					Large mercenaria (possibly articulated) at 15.0'
	20					18.2' cut
			TD 18.2'			






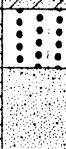



CORE NO.:

8

 olsen associates, inc. Coastal Engineering		PROJECT: BREVARD COUNTY SAND SEARCH			CORE NO.: 9		
		DRILLER: A.O.S.S.			DATE OF HOLE: 7/18/89 12:27		
		LOG BY: F.I.T. Civil/Bacchus			O.A. REP.: Wm. Buckingham, P.E.		
		DEPTH OF WATER: 34.8'			X- 633561		
DEPTH OF HOLE: 18.7'			Y- 1462557				
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS	
	1		Clay, firm, trace quartz sand and shell frags to 1/4 in, gray (CL)	100%			
	2		1.3 to 2.1 ft, sand, fine quartz and fine to 1/4 in shell frags, some clay (SC)				
	3						
	4		Clay, firm, trace fine quartz sand, sandy zones, gray (CL)	100%			
	5						
	6						
	7						6.7' cut
	8						
	9						
	10						
	11		Clay, firm, trace fine quartz, trace shell, shelly zones, sandy zones, shell frags to 1 1/2 in, gray (SC)	100%			
	12						
	13					12.8' cut	
	14				11.0 - 12.6 ft, local shell zone		
	15				13.7 - 13.8 ft, local shell zone		
	16						
	17				17.1 - 17.3 ft., local shell zone		
	18				17.7 - 17.9 ft, local sandy zone		18.5' cut
	19		TD 18.5'				
	20						



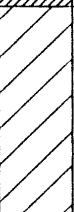

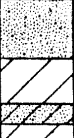

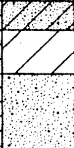


CORE NO.:

9

 olsen associates, inc. Coastal Engineering		PROJECT: BREVARD COUNTY SAND SEARCH			CORE NO.: 10		
		DRILLER: A.O.S.S.			DATE OF HOLE: 7/18/89 14:26		
		LOG BY: F.I.T. Civil/Bacchus			O.A. REP.: Wm. Buckingham, P.E.		
		DEPTH OF WATER: 17.2' DEPTH OF HOLE: 15.7'			X- 627827 Y- 1453903		
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS	
	1		Sand, fine qtz sand, trace whole & broken shell up to 1 in, little clay, gray (SC)	100%	1 (2.0')	Articulated bivalve found	
	2						
	3						
	4						
	5		Shell sand, fine to med qtz sand, little whole & broken shell up to 2 in., trace clay, gray (SW) from 6.4 - 6.8' med to coarse qtz	100%	2 (4.0')	6.8' cut	
	6						
	7		Clayey sand, fine qtz sand, little whole & broken shell up to 1 1/2 in, little clay, gray (SC)	100%	3 (6.3')	11.8' cut	
	8						
	9						
	10						
	11		8.8 - 9.0' clay zone 11.2' - 11.4' local shell zone	100%	4 (8.8')	15.9' cut	
	12						
	13		Sand, fine qtz sand, little whole & broken shell up to 1 in, little clay, gray (SC)	100%	5 (13.0')		
	14						
	15		Shell sand, fine to med qtz sand, little whole & broken shell up to 1 1/2 in, trace clay, gray (SW)				
	16						
	17		Sand, med qtz sand, trace whole & broken shell up to 3/4 in, trace clay, gray (SP)				
	18						
	19		TD 15.9 ft				
	20						






CORE NO.:

10

 olsen associates, inc. Coastal Engineering		PROJECT:			CORE NO.:		
		BREVARD COUNTY SAND SEARCH			11		
		DRILLER:		DATE OF HOLE:			
		A.O.S.S.		7/18/89 13:14			
LOG BY:		O.A. REP.:					
F.I.T. Civil/Bacchus		Wm. Buckingham, P.E.					
DEPTH OF WATER: 37.1'		X- 633879					
DEPTH OF HOLE: 19.5'		Y- 1454711					
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS	
	1		Clay, trace fine qtz sand, some shell frags to 1/2 in, dark gray (CH)	100%			
	2						
	3		Clay, firm, trace fine quartz sand gray (CL)				
	4						
	5						
	6		Sand, clayey, fine to med qtz, fine to 1/4 in shell frags, gray (SC)			7.0' cut	
	7						
	8		Sand, med to coarse qrz, gray (SP)	100%			
	9						
	10		Clay, sandy trace medium to coarse quartz, gray (CL)				
	11						
	12		10.8 - 11.2 ft, - local sandy zone (SC)				
	13						
	14						
	15		Sand, med to coarse qrz, trace clay, gray (SP)	100%		13.5' cut	
	16						
	17						
	18						
	19		Sand, med to coarse qrz, some clay, little shell frags to 1/4 in, gray (SC)				
	20						
			Clay, firm, trace shell frags to 1/4 in, gray (CL)			19.6' cut	
			TD 19.6'				



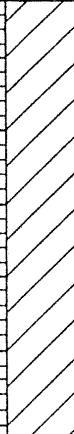
CORE NO.:

11





 olsen associates, inc. Coastal Engineering		PROJECT: BREVARD COUNTY SAND SEARCH			CORE NO.: 12		
		DRILLER: A.O.S.S.			DATE OF HOLE: 7/18/89 15:24		
		LOG BY: F.I.T. Civil/Bacchus			O.A. REP.: Wm. Buckingham, P.E.		
		DEPTH OF WATER: 19.3'			X- 627906±100		
		DEPTH OF HOLE: 10.0'			Y- 1450449±100		
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS	
	1		Sand, fine qrz, little fine to med. shell frags to 1/4 in., gray (SP)	100%	1 (1.0')		
	2				2 (3.0')		
	3				3 (5.0')		
	4						
	5						
	6		Shell sand, fine to med sand to 1/2 in shell, trace fine to med quartz gray (SW)			5.4' cut	
	7		Sand, fine to med qrz, some fine to coarse shell frags to 1 in, trace clay, gray (SP-SC)				
	8						
	9		Shell sand, fine to medium sand to 1 in shell frags, trace clay, gray (SW)			10.0' cut	
	10		TD 10.0'				
	11						
	12						
	13						
	14						
	15						
	16						
	17						
	18						
	19						
	20						

CORE NO.:

12




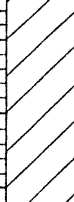

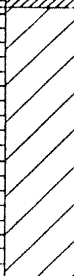
 olsen associates, inc. Coastal Engineering		PROJECT: BREVARD COUNTY SAND SEARCH			CORE NO.: 12A	
		DRILLER: A.O.S.S.		DATE OF HOLE: 7/18/89 15:44		
		LOG BY: F.I.T. Civil/Bacchus		O.A. REP.: Wm. Buckingham, P.E.		
		DEPTH OF WATER: 20.0' DEPTH OF HOLE: 17.2'		X- 627906 Y- 1450449		
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS
	1		Sand, fine to medium, quartz and shell to 1 in., little whole and broken shell fragments, shelly layer from 4.6' to 5.6' and 10.0' - 10.5', little clay, medium gray (SP)	100%	1 (3.0')	
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12		Sandy Clay, fine quartz, trace whole and broken shell fragments to 1/2 in., medium to dark gray (CL)	100%	2 (9.0')	7.5' cut
	13					
	14					
	15					
	16					
	17					
	18		TD 17.2'			12.4' cut
	19					Sandy Zones scattered throughout Sandy Clay horizon
	20					17.2' cut

CORE NO.:
12A

 olsen associates, inc. Coastal Engineering		PROJECT:			CORE NO.:	
		BREVARD COUNTY SAND SEARCH			13	
		DRILLER:		DATE OF HOLE:		
		A.O.S.S.		7/18/89 16:36		
		LOG BY:		O.A. REP.:		
F.I.T. Civil/Bacchus		Wm. Buckingham, P.E.				
DEPTH OF WATER: 37.7'		X- 633886				
DEPTH OF HOLE: 15.3'		Y- 1450365				
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS
	1		Shell sand, fine qtz sand to 1 in shell, whole & broken shell frags, little clay Galy, firm, trace shell, gray (CH)	100%		
	2		Sand, fine qtz sand, trace shell up to 1 in, clayey, gray (SC)			
	3					
	4					
	5					5.6' cut
	6		Clay, firm, trace whole and broken shell to 1 1/2 in, gray (CH)	100%		
	7					
	8					
	9		8.6' - 8.9' local shell zone			
	10					
	11		Sand, fine qtz sand, trace shell up to 1 1/2 in, little clay, gray (SC)			10.6' cut
	12		clay, firm, trace whole & broken shell to 1 1/2 in, gray (CH)	100%		
	13		13.4' - 13.6' local shell zone			
	14		14.0' - 14.2' local shell zone			
	15					15.6' cut
	16		TD 15.6'			
	17					
	18					
	19					
	20					



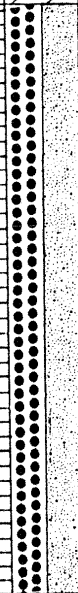
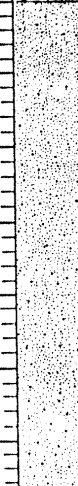
CORE NO.:

13

 olsen associates, inc. Coastal Engineering		PROJECT:			CORE NO.:		
		BREVARD COUNTY SAND SEARCH			14		
		DRILLER:		DATE OF HOLE:			
		A.O.S.S.		7/18/89 17:19			
LOG BY:		O.A. REP.:					
F.I.T. Civil/Bacchus		Wm. Buckingham, P.E.					
DEPTH OF WATER: 20.9'		X- 628050					
DEPTH OF HOLE: 15.0'		Y- 1446538					
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS	
	1		Sand, fine to med qtz sand, little shell & shell frags up to 2 in, little clay, light gray (SC)	100%	1 (1.0')		
	2						
	3		2.6 - 3.1' local shell zone				
	4		Clayey sand, fine to med qtz sand, trace whole & broken shells up to 2 in, little clay, gray (SC)			5.4' cut	
	5		5.0 - 5.4' clayey sand, coarse qtz sand				
	6		Sandy clay, trace whole & broken shells up to 2 in, little fine qtz, little clay, gray (CL)	100%			
	7						
	8						
	9		Clay, firm, trace whole & broken shells up to 1 in, trace fine qtz, gray (CH)			10.6' cut	
	10						
	11						
	12		Sandy clay, trace whole & broken shells up to 1 1/2 in, little fine to med qtz, little clay, gray (CL)	100%		15.6' cut	
	13						
	14						
	15						
	16		TD 15.6'				
	17						
	18						
	19						
	20						


CORE NO.:

14

 olsen associates, inc. Coastal Engineering		PROJECT: BREVARD COUNTY SAND SEARCH			CORE NO.: 15	
		DRILLER: A.O.S.S.		DATE OF HOLE: 7/18/89 18:21		
		LOG BY: F.I.T. Civil/Bacchus		O.A. REP.: Wm. Buckingham, P.E.		
		DEPTH OF WATER: 32.0' DEPTH OF HOLE: 17.5'		X- 630542 Y- 1445143		
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS
	1		Sandy clay, fine qtz, fine to 1 in shell frags, dark gray (CL) 1.1 to 1.4 ft and 1.75 to 2.2 ft, local shell zones	100%		Top 5.04 in missing from core
	2					
	3		Shell sand, mixtures of med to coarse qtz and fine to 1/2 in shell frags, gray (SW-SP)	100%	1 (3.0')	6.8' cut
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11		Sand, med to coarse, qtz and shell frags, little shell to 1/4 in, gray (SP)	100%	3 (11.5')	12.1' cut
	12					
	13					
	14					
	15					
	16					
	17					
	18		TD 17.7'			
	19					
	20					

CORE NO.:

15

 olsen associates, inc. Coastal Engineering	PROJECT:		BREVARD COUNTY SAND SEARCH		CORE NO.:	16	
	DRILLER:		A.O.S.S.		DATE OF HOLE:		7/24/89 7:16
	LOG BY:		F.I.T. Civil/Bacchus		O.A. REP.:		Wm. Buckingham, P.E.
	DEPTH OF WATER: 31.7'		X- 630072		Y- 1442829		
DEPTH OF HOLE: 20.0'							
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS	
	1		Clay, firm, gray (CH) 0.0 to 0.4 ft, missing sediment	100%			
	2		Sand, med to coarse qtz, little fine to 1/2 in shell frags, trace clay, dark gray (SW)		1 (3.0')		
	3						
			3.3 to 3.6 ft., clay, firm, gray(CH)				
	4						
	5						
	6		Clay, firm, trace fine qtz sand zones, trace fine to 1/4 in shell frags, dark gray (CH)				
	7					7.5' cut	
	8			100%			
	9						
	10						
	11						
	12						
	13					13.8' cut	
	14			100%			
	15						
	16						
	17						
	18						
	19						
	20					20.2' cut	
			TD 20.2				

CORE NO.:

16



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associates, inc.
Coastal Engineering

PROJECT:

BREVARD COUNTY SAND SEARCH

CORE NO.:

17

DRILLER:

A.O.S.S.

DATE OF HOLE:

7/24/89 7:36

LOG BY:

F.I.T. Civil/Bacchus

O.A. REP.:

Wm. Buckingham, P.E.

DEPTH OF WATER: 41.9'

X- 635058


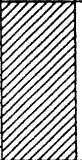

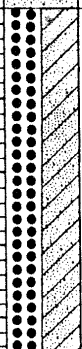


DEPTH OF HOLE: 20.0'



Y- 1442772


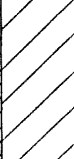




ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS
	1		Clay, firm, little whole & broken shells up to 1/2 in, trace fine qtz sand, sandy zones, gray (CH)	100%		
	2					
	3		2.8 - 2.9' local shell zone			
	4					
	5					
	6					
	7					7.0' cut
	8			100%		
	9		9.6 - 9.8' local shell zone			
	10		10.2' - 10.4' local shell zone			
	11					
	12					
	13					
	14					14.3' cut
	15		Sandy clay, little fine qtz, trace whole & broken shell up to 1/2 in, little clay, gray (CL)	100%		
	16					
	17		Organic clay firm, trace whole & broken shells up to 1", trace fine quartz sand, dark gray, (OH)			
	18					
	19		Clay, firm, little whole & broken shells up to 1 in, greenish gray (CH)			20.0' cut
	20		TD 20.0'			

CORE NO.:

17


		PROJECT: BREVARD COUNTY SAND SEARCH				CORE NO.: 18	
		DRILLER: A.O.S.S.			DATE OF HOLE: 7/24/89 10:16		
		LOG BY: F.I.T. Civil/Bacchus			O.A. REP.: Wm. Buckingham, P.E.		
		DEPTH OF WATER: 20.5' DEPTH OF HOLE: 15.7'			X- 628268 Y- 1437626		
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS	
	1		Clay, firm, trace shell frag to 1/2 in, gray (CH)	100%			
	2						
	3		Sand, fine, little shell frags to 1/4 in, trace clay, gray (SP)		1 (4.0')		
	4						
	5						
	6		Shell sand, fine sand to 3/4 in whole & broken shell, little fine qtz, some clay (SW-SC)	100%	2 (8.0')	6.5' cut	
	7						
	8						
	9						
	10						
	11		Sand, clayey, med to coarse quartz, fine to 1/4 in shell frags, gray (SC)	100%		11.1' cut	
	12						
	13						
	14						
	15		12.9 to 14.8', sandy clay, firm, med to coarse qtz sand, gray (CL)			15.9' cut	
	16						
	17		TD 15.9'				
	18						
	19						
	20						

 olsen associates, inc. Coastal Engineering		PROJECT: BREVARD COUNTY SAND SEARCH				CORE NO.: 19
		DRILLER: A.O.S.S.		DATE OF HOLE: 7/24/89 9:21		
		LOG BY: F.I.T. Civil/Bacchus		O.A. REP.: Wm. Buckingham, P.E.		
		DEPTH OF WATER: 40.3'		X- 634312 Y- 1436937		
DEPTH OF HOLE: 18.5'						
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS
	1		Clay, firm, little whole & broken shells up to 1 in, trace fine qtz sand, sandy, zone s, gray (CH)	100%		7.2' cut
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15		Organic clay, firm, trace whole & broken shells up to 1/2, dark gray (OH)	100%		13.1' cut
	16					
	17		Clay, firm, little whole & broken shells up to 1/2 in, greenish gray (CH)	100%		
	18					18.6' cut
	19		TD 18.6'			
	20					

 olsen associates, inc. Coastal Engineering		PROJECT: BREVARD COUNTY SAND SEARCH			CORE NO.: 20		
		DRILLER: A.O.S.S.			DATE OF HOLE: 7/24/89 10:53		
		LOG BY: F.I.T. Civil/Bacchus			O.A. REP.: Wm. Buckingham, P.E.		
		DEPTH OF WATER: 26.3' DEPTH OF HOLE: 19.7'			X- 629317 Y- 1433219		
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS	
	1		Sandy clay, trace whole & broken up to 3/4 in, little fine qtz, little clay, gray (CL)	100%			
	2						
	3		Shell sand, med to coarse qtz sand, little whole & broken shells up to 1 1/2 in, little clay, dark gray, (SW-SC)		1 (4.0')		
	4						
	5						
	6						
	7		Shell sand, med to coarse qtz sand, little whole & broken shells up to 1 1/2 in, trace clay, dark gray (SW)		2 (7.0')	7.0' cut	
	8						
	9		Sandy clay, trace whole & broken shells up to 1/2 in, little fine qtz sand, little clay, gray (CL)				
	10		Clay, firm, trace fine qtz sand, trace sandy zones, gray (CH)	100%			
	11						
	12						
	13						
	14						
	15						
	16						
	17						
	18						
	19						
	20		TD 19.4'				








CORE NO.:

20

 olsen associates, inc. Coastal Engineering	PROJECT:		BREVARD COUNTY SAND SEARCH		CORE NO.:	21	
	DRILLER:		A.O.S.S.		DATE OF HOLE:		7/24/89 14:09
	LOG BY:		F.I.T. Civil/Bacchus		O.A. REP.:		Wm. Buckingham, P.E.
	DEPTH OF WATER: 22.5'		X- 629786		Y- 1425771		
DEPTH OF HOLE: 15.7'							
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS	
			Sand, med qtz sand, little whole & broken shells up to 1 in, light gray (SP)		1 (0.5')		
	1		Sand, fine qtz sand, little whole & broken shells up to 2 in, little clay, gray (SC)	100%			
	2		1.5 to 2.0' local sandy zone with trace med qtz sand		2 (5.0')		
	3						
	4						
	5						
	6					6.6' cut	
	7			100%			
	8						
	9						
	10						
	11		Shell sand, fine to med qtz sand little whole & broken shells up to 2 in, little clay, gray (SC)		3 (12.0')		
	12						
	13						
	14		Sand, med to coarse qtz sand, little whole & broken shells up to 1 in, gray (SP)		4 (14.5')		
	15					15.6' cut	
	16		TD 15.6'				
	17						
	18						
	19						
	20						





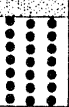
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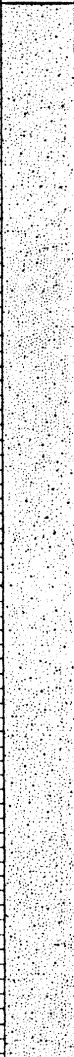

21



 olsen associates, inc. Coastal Engineering	PROJECT:		BREVARD COUNTY SAND SEARCH		CORE NO.:	22	
	DRILLER:		A.O.S.S.		DATE OF HOLE:		7/24/89 15:59
	LOG BY:		F.I.T. Civil/Bacchus		O.A. REP.:		Wm. Buckingham, P.E.
	DEPTH OF WATER: 43.9'		X- 635865		Y- 1430428		
DEPTH OF HOLE: 20.0'							
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS	
	1		Sand, medium to coarse, quartz and shell, trace shell fragments to 3/4 in., gray (SP)	100%			
	2						
	3						
	4						
	5						
	6						
	7		Clay, firm, trace whole and broken shell to 1/2 in., dark gray (CH)	100%		7.4' cut	
	8						
	9		8.8 to 10.6 ft., shell clay, fine to 3/4 in. shell fragments, trace fine quartz sand, gray (CL)				
	10						
	11		Clay, firm, trace whole and broken shell to 1/2 in., dark gray (CH)			14.6' cut	
	12						
	13						
	14						
	15		Sand clay, fine quartz sand, trace fine to 1/2 in. shell fragments, gray (CL)	100%		16.7 ft., piece of wood	
	16						
	17						
	18						
	19		Clay, firm, trace fine to 1/4 in. shell fragment, trace				
	20						

CORE NO.:


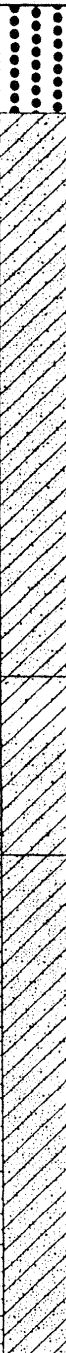


22


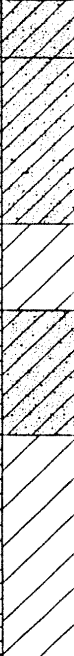

 olsen associates, inc. Coastal Engineering		PROJECT: BREVARD COUNTY SAND SEARCH				CORE NO.: 23		
		DRILLER: A.O.S.S.			DATE OF HOLE: 7/24/89 17:04			
		LOG BY: F.I.T. Civil/Bacchus			O.A. REP.: Wm. Buckingham, P.E.			
		DEPTH OF WATER: 23.8'			X- 629009			
DEPTH OF HOLE: 16.3'			Y- 1429271					
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS		
	1		Sand, fine qtz sand, little whole & broken shells up to 1 1/2 in, little clay, gray (SC)	100%	1 (4.0')			
	2		1.7' - 2.2' local shell zone					
	3							
	4							
	5							
	6							
	7							
	8					100%	6.2' cut	
	9		Shell sand, fine qtz sand, little whole & broken shells up to 2 in, little clay, gray (SC)		2 (12.5')			
	10		Sand, med to coarse qtz sand, little whole & broken shells up to 1 1/2 in, trace clay, gray (SP)					
	11							
	12					100%	11.8' cut	
	13							
	14							
	15							
	16		Shell sand, med to coarse qtz sand, little whole & broken shells up to 1 in, trace clay, gray (SW)			16.2' cut		
	17		TD 16.2 ft					
	18							
	19							
	20							

 olsen associates, inc. Coastal Engineering		PROJECT:			BREVARD COUNTY SAND SEARCH		CORE NO.:	24
		DRILLER:			A.O.S.S.			
		LOG BY:			F.I.T. Civil/Bacchus			
		DATE OF HOLE:			7/25/89 8:00			
O.A. REP.:			Wm. Buckingham, P.E.					
DEPTH OF WATER: 44.0'			X- 637116					
DEPTH OF HOLE: 20.0'			Y- 1421197					
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS		
	1		Sand, mixture of medium to coarse quartz sand and shell fragments, trace shell fragments to 1 in., light gray, (SP)	100%	1 (2.0')			
	2							
	3							
	4							
	5							
	6							
	7							
	8			100%	2 (6.0')	7.8' cut		
	9							
	10							
	11			3 (10.0')				
	12							
	13							
	14						14.3' cut	
	15		Clay, firm, organic, trace fine quartz sand zones, dark gray to black, (CH-OH)	100%				
	16							
	17							
	18							
	19							
	20			18.7 to 19.2 ft., shell clay fine to 1/4 in. shell fragments trace carbonate				
			Shell, Clay, firm fine to 1/4" shell fragment, trace fine quartz sand, greenish gray, (Cl.)			20.1 Cut		
			TD 20.1					

 olsen associates, inc. Coastal Engineering		PROJECT:			BREVARD COUNTY SAND SEARCH		CORE NO.: 25					
		DRILLER:			A.O.S.S.				DATE OF HOLE:		7/24/89 19:34	
		LOG BY:			F.I.T. Civil/Bacchus				O.A. REP.:		Wm. Buckingham, P.E.	
		DEPTH OF WATER: 22.3'			X- 630655				Y- 1417040			
DEPTH OF HOLE: 7.0'												
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS						
	1		Sand, fine quartz, little clay, gray (SC)	100%								
	2											
	3		Shell sand, fine quartz, fine to 1 in white and broken shell, trace clay, gray (SW)									
	4		Sand, fine quartz, trace fine to 1/4 in shell frags little clay, gray (SC)									
	5											
	6					6.9' cut						
	7		TD 6.9'									
	8											
	9											
	10											
	11											
	12											
	13											
	14											
	15											
	16											
	17											
	18											
	19											
	20											

CORE NO.:
25

 olsen associates, inc. Coastal Engineering		PROJECT: BREVARD COUNTY SAND SEARCH				CORE NO.: 25A	
		DRILLER: A.O.S.S.			DATE OF HOLE: 7/25/89 9:14		
		LOG BY: F.I.T. Civil/Bacchus			O.A. REP.: Wm. Buckingham, P.E.		
		DEPTH OF WATER: 22.3' DEPTH OF HOLE: 19.0'			X- 630655±100 Y- 1417040±100		
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS	
	1		Shell sand, fine qtz sand, little whole & broken shells up to 2 in, trace clay, gray (SW)	100%	1 (0.8')		
	2		Sand, fine qtz sand, trace whole & broken shell up to 1 in, little clay, gray (SC)				
	3						
	4						
	5						
	6						
	7						
	8						
	9		8.8' - 9.2' local shell zone	100%		7.0' cut	
	10		Sand, fine qtz sand, little whole & broken shells up to 1 1/2 in, little clay, clay zones, gray (SC)	100%	3 (10.5')	12.5' cut	
	11						
	12		Clayey sand, fine qtz sand, little whole & broken shells up to 1 1/2 in, little clay, clay zones, gray (SC)				
	13			100%		18.6' cut	
	14						
	15						
	16						
	17		17.1' - 17.6' local shell zone				
	18	17.9' - 18.2' local shell zone					
	19		TD 18.6'				
	20						

 olsen associates, inc. Coastal Engineering		PROJECT: BREVARD COUNTY SAND SEARCH				CORE NO.: 26	
		DRILLER: A.O.S.S.			DATE OF HOLE: 7/25/89 8:41		
		LOG BY: F.I.T. Civil/Bacchus			O.A. REP.: Wm. Buckingham, P.E.		
		DEPTH OF WATER: 32.7' DEPTH OF HOLE: 19.5'			X- 632042 Y- 1417527		
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% CORE RECOVERY	SAMPLE NO.	REMARKS	
	1		Shell sand, fine qtz sand, little whole & broken shells up to 1 in, little clay, gray (SC)	100%	(2.0')		
	2		Clayey sand, fine to med qtz sand, little whole & broken shells up to 1 in, little clay, gray (SC). 1.3'-1.6' local shell zone 2.1'-2.4' local shell zone 0.8'-0.9' clay layer 2.4'-2.5' clay layer	1			
	3						
	4		Sandy clay, little whole & broken shells up to 1 in, little fine qtz sand, gray (CL)				
	5		Shell sand, med to coarse qtz sand, little whole & broken shells up to 2 in, little clay, gray (SC)				
	6						
	7		Sandy clay, little whole & broken shells up to 1 in, little fine qtz, sandy zones, gray (CL) 7.0 - 7.1' zone of med to coarse quartz sand.	100%			
	8					7.8' cut	
	9						
	10		Clay firm trace whole & broken shells up to 1/2', trace fine qtz sand in sandy zones, gray (CH)				
	11						
	12						
	13						
	14					14.2' cut	
	15			100%			
	16						
	17						
	18						
	19					19.5' cut	
	20		TD 19.5'				