Vibrational Core NJV-660 R1

U.S. Army Corps of Engineers
Vibrational Cores-Long Beach Island
Contract Number DACW61-02-D-0004
Task Order 09
Long Beach Island PED

Date : June 2, 2002
Weather : Sun, 70's
Contractor : Alpine Ocean Seismic Sur.
Location : Long Beach Island, NJ
Northing Coord. : N 300,508.5 NJ-NAD 83
Easting Coord. : E 605,919.6 NJ-NAD 83

Uncorrected Depth : 56.8 feet
Tide : -0.6 feet
Corrected Depth : 57.4 feet (1)
Vibration time : 2'38"
Core penetration : 19.3 feet
Core recovery : 14.5 feet
Percent recovery : 75 %

Depth in Feet	Soil Surf. Elev. (ft) -57.4 (1)	USCS	GRAPHIC	DESCRIPTION	Core Interval	Sample No./Interval
0	-58	SP		Gray/light-brown medium SAND, some fine sand, trace coarse sand, trace gravel, trace silt/clay.	1	1/0.0-2.2
				Gray/light-brown medium to fine SAND, trace coarse sand, trace gravel, trace silt/clay.	2	2/2.2-7.3
5	-63					
				Gray medium to fine SAND, little coarse sand, trace gravel, trace silt/clay.	3	3/7.3-12.3
10	-68					
				Gray fine to medium SAND, trace coarse sand, trace silt/clay.	4	4/12.3-14.5
15	-73					
20	-78					
25						

Notes:
1. Corrected water depth and soil surface elevation datum is NGVD.
2. Sample depths are based on core recovery lengths.
3. Soil descriptions & USCS classifications according to Visual-Manual Procedure (ASTM D 2488) and/or mechanical sieve analysis if analysis performed.

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Vibrational Core NJV-660 R2

U.S. Army Corps of Engineers
Vibrational Cores-Long Beach Island
Contract Number DACW61-02-D-0004
Task Order 09
Long Beach Island PED

Date : June 2, 2002
Weather : Sun, 70's
Contractor : Alpine Ocean Seismic Sur.
Location : Long Beach Island, NJ
Northing Coord. : N 300,501.4 NJ-NAD 83
Easting Coord. : E 605,907.5 NJ-NAD 83

Uncorrected Depth : 57.2 feet
Tide : +0.4 feet
Corrected Depth : 56.8 feet (1)
Vibration time : 2'08"
Core penetration : 7.3 feet
Core recovery : 3.4 feet
Percent recovery : 47 % (4)

Depth in Feet	Soil Surf. Elev. (ft) -56.8 (1)	USCS	GRAPHIC	DESCRIPTION	Core Interval	Sample No./Interval
0	-57					
5	-62					
10	-67			Jet to 13.0 feet below ocean bottom, start vibration.		
		SP		Gray medium SAND, some fine sand, trace coarse sand trace gravel, trace silt/clay.	1	1/13.0-16.4
15	-72					
20	-77					
25						

Notes:
1. Corrected water depth and soil surface elevation datum is NGVD.
2. Sample depths are based on core recovery lengths.
3. Soil descriptions & USCS classifications according to Visual-Manual Procedure (ASTM D 2488) and/or mechanical sieve analysis if analysis performed.
4. Actual sample collection from 13.0 feet to 20.3 feet, total sampled length 7.3 feet. Percent recovery based on this length.

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Vibrocore NJV-471

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U.S. Army Corps of Engineers
Vibrocore - New Jersey
Contract Number DACW-61-98-D-0008
Task Order 2
Barnegat Inlet Study Area

Date : July 18,1998
Weather : Clear and warm
Vibrocore contractor : Alpine Ocean Seismic Sur.
Location : Harvey Cedars, NJ
Northing Coord. : N 307,848.6
Easting Coord. : E 609,122.1

Uncorrected Depth: 52.2 feet
Tide : 5.2 feet
Corrected Depth : 47.0 feet
Vibration time : 5'02"
Core penetration : 16.08 feet
Core recovery : 17.0 feet
Percent recovery : 106 %

Depth in Feet	Surf. Elev. -44.7	USCS	GRAPHIC	DESCRIPTION	Core Interval	Sample No./Interval
0	-45	SP		White/light gray fine SAND, little medium sand, trace coarse sand, trace silt/clay, trace shells, trace gravel	1	1/0.0 -5.0
5	-50	SP		White/light gray fine SAND, trace medium sand, trace silt/clay, trace coarse sand, trace gravel, trace shells	2	2/5.0-10.0
10	-55	SP		Gray fine SAND, trace medium sand, trace gravel, trace coarse sand, trace silt/clay	3	3/10.5-11.5
		SP		Gray SILT/CLAY, trace fine sand		
		ML/CL		Gray fine SAND, trace shell fragments		4/12.0-15.0
				Gray SILT/CLAY, trace fine sand		
		GP		Gray/tan GRAVEL, some medium sand, little coarse sand, little fine sand, trace silt/clay, trace shells		
15	-60	SP		Tan medium SAND, some fine sand, little coarse sand, trace gravel, trace silt/clay	4	5/15.0-17.0
20						

Notes:
1. Sample depths are based on core recovery lengths.
2. Water depth is in terms of MLLW.
3. Ground surface elevation is in terms of NVGD.

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Vibrocore NJV-472

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U.S. Army Corps of Engineers
Vibrocore - New Jersey
Contract Number DACW-61-98-D-0008
Task Order 2
Barnegat Inlet Study Area

Date : July 19,1998
Weather : Clear and warm
Vibrocore contractor : Alpine Ocean Seismic Sur.
Location : Harvey Cedars, NJ
Northing Coord. : N 305,768.0
Easting Coord. : E 604,107.6

Uncorrected Depth: 49.0 feet
Tide : 1.4 feet
Corrected Depth : 47.6 feet
Vibration time : 6'14"
Core penetration : 15.19 feet
Core recovery : 18.4 feet
Percent recovery : 121 %

Depth in Feet	Surf. Elev. -45.3	USCS	GRAPHIC	DESCRIPTION	Core Interval	Sample No./Interval
0		ML/CL		Gray SILT/CLAY, trace fine sand, trace medium sand, trace coarse sand	1	1/0.0 -3.2
		GP/SP		GRAVEL and medium sand, some coarse sand, trace fine sand, trace silt/clay		2/3.2-5.0
5	-50	SP		Tan/gray medium SAND, some gravel, little fine sand, trace coarse sand, trace silt/clay	2	3/5.0-10.0
10	-55	SP		Tan/gray medium SAND, little fine sand, trace coarse sand, trace gravel, trace silt/clay	3	4/10.0-15.0
15	-60	SP		Gray/brown medium to fine SAND, trace coarse sand	4	5/15.0-18.4
20	-65					

Notes:
1. Sample depths are based on core recovery lengths.
2. Water depth is in terms of MLLW.
3. Ground surface elevation is in terms of NVGD.

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US Army Corps of Engineers
Philadelphia District

Mark	Description	Date	Appr.	Mark	Description	Date	Appr.

Designed by: LAM
Dwn by: LAM
Ckd by: DCL
Reviewed by: CPC
Submitted by: Chief, Arch. Branch
Date: OCT 31/2006
Rev.
FILE NO 72BJ-08-B-0000
Drawing code:
File name: LBVIBCORES
Plot date:
Plot scale: 1in to 1 ft

U.S. ARMY ENGINEER DISTRICT, PHILADELPHIA
CORPS OF ENGINEERS
PHILADELPHIA, PENNSYLVANIA

FEASIBILITY STUDY PLANS

BARNEGAT INLET TO LITTLE EGG INLET
OCEAN COUNTY, NEW JERSEY
BEACHFILL
VIBRACORE LOGS
NJV-660

Sheet reference number:
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