

*Appendix A*

*Sediment Core Logs  
Tide Curves*

# Energy and Environmental Analysts, Inc.

## SEDIMENT CORING REPORT LOG

DATE 7/12/2002		SHEET 1 OF 1	
CLIENT AKRF/NYC DOT		LOCATION ID#	
PROJECT LOCATION 2 <sup>nd</sup> Ave Subway Project		3AB #1	
REMARKS		PROJECT # 02736	
CORING CONTRACTOR EEA	LOGGED BY JBS	DRILLER JBS	
EQUIPMENT	TOTAL PENETRATION 8.5 ft.		SEDIMENT CORING DRILL METHOD
TYPE	TOTAL RECOVERY 4.9 ft.		
SIZE	DGPS Co-ordinates		ROSSFELDER P-1 ELECTRIC VIBRATORY CORER
WATER DEPTH	9.82 1024 N 40° 40.294	W 73 55.870	

DEPTH	SAMPLE	STRATA	SEDIMENT - DESCRIPTION - CLASSIFICATION
			Hit Refusal 2 times prior to collection of sample. moved w 10 N.
			Sandy silt coarse to fine sand trace
5			Fine gravel. grey silt.
	3AB#1		
10			<u>EOB</u> End of Boring
15			
20			
25			
30			

# Energy and Environmental Analysts, Inc.

## SEDIMENT CORING REPORT LOG

DATE 7/12/2002			SHEET 1 OF 1		
CLIENT AKRF/NYC DOT			LOCATION ID#		
PROJECT LOCATION 2 <sup>nd</sup> Ave Subway Project			3 AB #2		
REMARKS		PROJECT # 02736			
CORING CONTRACTOR EEA		LOGGED BY JBS		DRILLER	
EQUIPMENT		TOTAL PENETRATION		SEDIMENT CORING DRILL METHOD	
		8.5 ft			
TYPE		TOTAL RECOVERY		ROSSFELDER P-1 ELECTRIC VIBRATORY CORER	
SIZE		5.5 ft			
		DGPS Co-ordinates			
WATER DEPTH	9.6 @ 1053	N 40° 48.326	W 73 55.894		

DEPTH	SAMPLE	STRATA	SEDIMENT - DESCRIPTION - CLASSIFICATION
			<p><u>Gravelly Sand</u> Fine gravel, coarse to fine sand, trace silt - Black</p> <p>sample collected near storm water outfall. visible under pier</p> <p>EOB</p>
5			
10			
15			
20			
25			
30			

# Energy and Environmental Analysts, Inc.

## SEDIMENT CORING REPORT LOG

DATE 7/12/2002		SHEET 1 OF 1	
CLIENT AKRF/NYC DOT		LOCATION ID#	
PROJECT LOCATION 2 <sup>nd</sup> Ave Subway Project		3A-B #3	
REMARKS		PROJECT # 02736	
CORING CONTRACTOR EEA	LOGGED BY JBS	DRILLER	
EQUIPMENT		TOTAL PENETRATION 6.5 ft.	SEDIMENT CORING DRILL METHOD
TYPE		TOTAL RECOVERY 4.5 ft.	
SIZE		DGPS Co-ordinates	ROSSFELDER P-1 ELECTRIC VIBRATORY CORER
WATER DEPTH	9.9 @ 1120	N 40° 48.342'	

DEPTH	SAMPLE	STRATA	SEDIMENT - DESCRIPTION - CLASSIFICATION
			sand medium to fine sand, trace fine gravel. Refusal @ 6.5'
5			
			EOB
10			
15			
20			
25			
30			

# Energy and Environmental Analysts, Inc.

## SEDIMENT CORING REPORT LOG

DATE 7/12/2002			SHEET 1 OF 1		
CLIENT AKRF/NYC DOT			LOCATION ID#		
PROJECT LOCATION 2 <sup>nd</sup> Ave Subway Project			3AB#4		
REMARKS			PROJECT # 02736		
CORING CONTRACTOR EEA		LOGGED BY JBS	DRILLER		
EQUIPMENT		TOTAL PENETRATION 7.5 ft.		SEDIMENT CORING DRILL METHOD	
TYPE		TOTAL RECOVERY 6.0 ft.			
SIZE		DGPS Co-ordinates		ROSSFELDER P-1 ELECTRIC VIBRATORY CORER	
WATER DEPTH	12.6 @ 1152	N 40 48.245 W 73 55.829			

DEPTH	SAMPLE	STRATA	SEDIMENT - DESCRIPTION - CLASSIFICATION
			<p style="font-size: 1.2em;">Sandy silt - trace medium to fine sand Dark grey.</p> <p style="font-size: 1.5em; margin-top: 20px;">EOB</p>
5			
10			
15			
20			
25			
30			

# Energy and Environmental Analysts, Inc.

## SEDIMENT CORING REPORT LOG

DATE 7/12/2002

SHEET 1 OF 1

CLIENT AKRF/NYC DOT

LOCATION ID#

PROJECT LOCATION 2<sup>nd</sup> Ave Subway Project

3AB #5

REMARKS

PROJECT # 02736

CORING CONTRACTOR EEA

LOGGED BY JBS

DRILLER

EQUIPMENT

SEDIMENT CORING  
DRILL METHOD

TOTAL PENETRATION 3 ft.

TYPE

TOTAL RECOVERY 2.5 ft.

ROSSFELDER P-1  
ELECTRIC  
VIBRATORY CORER

SIZE

DGPS Co-ordinates

WATER DEPTH

11.72 1209

N 40° 48.257

W 73 55.841

DEPTH

SAMPLE

STRATA

SEDIMENT - DESCRIPTION - CLASSIFICATION

5

10

15

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25

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Sandy silt - trace fine sand, slight  
petroleum odor. Black  
- EOB - Refusal @ 3-0'

# Energy and Environmental Analysts, Inc.

## SEDIMENT CORING REPORT LOG

DATE 7/12/2002		SHEET 1 OF 1	
CLIENT AKRF/NYC DOT		LOCATION ID#	
PROJECT LOCATION 2 <sup>nd</sup> Ave Subway Project		3AB #6	
REMARKS		PROJECT # 02736	
CORING CONTRACTOR EEA	LOGGED BY JBS	DRILLER	
EQUIPMENT			SEDIMENT CORING DRILL METHOD
	TOTAL PENETRATION	7.0 ft.	
TYPE			ROSSFELDER P-1 ELECTRIC VIBRATORY CORER
SIZE	TOTAL RECOVERY		
	4.5 ft.		
WATER DEPTH	DGPS Co-ordinates		
	12.8 @ 25'	N 40 48.270	W 73 55.846

DEPTH	SAMPLE	STRATA	SEDIMENT - DESCRIPTION - CLASSIFICATION
			<p style="font-size: 1.2em;">Sandy silt - medium to fine sand - Black silt. Refusal at 7.0'</p> <p style="font-size: 1.5em; margin-top: 20px;">EOB</p>
	3AB#6		
5			
10			
15			
20			
25			
30			

# Energy and Environmental Analysts, Inc.

## SEDIMENT CORING REPORT LOG

DATE 7/12/2002		SHEET 1 OF 1	
CLIENT AKRF/NYC DOT		LOCATION ID#	
PROJECT LOCATION 2 <sup>nd</sup> Ave Subway Project		P6 #1	
REMARKS		PROJECT # 02736	
CORING CONTRACTOR EEA	LOGGED BY JBS	DRILLER	
EQUIPMENT		TOTAL PENETRATION 8 ft.	SEDIMENT CORING DRILL METHOD
TYPE		TOTAL RECOVERY 6.5 ft.	
SIZE		DGPS Co-ordinates	ROSSFELDER P-1 ELECTRIC VIBRATORY CORER
WATER DEPTH	8020 <sub>1355</sub>	N 40° 42.152'	

DEPTH	SAMPLE	STRATA	SEDIMENT - DESCRIPTION - CLASSIFICATION
	P6 #1		Sandy silt Dark grey, plastic, slight petroleum odor.
5			↓ END of Boring
10			
15			
20			
25			
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# Energy and Environmental Analysts, Inc.

## SEDIMENT CORING REPORT LOG

DATE 7/12/2002		SHEET 1 OF 1	
CLIENT AKRF/NYC DOT		LOCATION ID#	
PROJECT LOCATION 2 <sup>nd</sup> Ave Subway Project		P6 #2	
REMARKS		PROJECT # 02736	
CORING CONTRACTOR EEA	LOGGED BY JBS	DRILLER JBS	
EQUIPMENT		TOTAL PENETRATION 5.5 ft.	SEDIMENT CORING DRILL METHOD  ROSSFELDER P-1 ELECTRIC VIBRATORY CORER
TYPE		TOTAL RECOVERY 4.5 ft.	
SIZE	DGPS Co-ordinates		
WATER DEPTH	10.8 @ 1404	N 40° 42.130      W 74° 00.431	

DEPTH	SAMPLE	STRATA	SEDIMENT - DESCRIPTION - CLASSIFICATION
			<u>SANDY SILT</u> . Trace F to m. sand . Dark grey. Plastic . slight Pet HC odor
5			— EOB
10			
15			
20			
25			
30			

# Energy and Environmental Analysts, Inc.

## SEDIMENT CORING REPORT LOG

DATE 7/12/2002	SHEET 1 OF 1
CLIENT AKRF/NYC DOT	LOCATION ID#
PROJECT LOCATION 2 <sup>nd</sup> Ave Subway Project	P6 #3

REMARKS	PROJECT # 02736
CORING CONTRACTOR EEA	LOGGED BY JBS      DRILLER <B>

EQUIPMENT		TOTAL PENETRATION	5.5	ft.	SEDIMENT CORING DRILL METHOD  ROSSFELDER P-1 ELECTRIC VIBRATORY      CORER
TYPE		TOTAL RECOVERY	4.5	ft.	
SIZE		DGPS Co-ordinates			
WATER DEPTH	10.40 14.8	N 40° 42.126      W 74° 00.415			

DEPTH	SAMPLE	STRATA	SEDIMENT - DESCRIPTION - CLASSIFICATION
			sandy silt Trace fine sand. plastic, dark grey. Slight PET HC odor.  -EOB
	P6#3		
5			
10			
15			
20			
25			
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# Energy and Environmental Analysts, Inc.

## SEDIMENT CORING REPORT LOG

DATE 7/12/2002

SHEET 1 OF 1

CLIENT AKRF/NYC DOT

LOCATION ID#

PROJECT LOCATION 2<sup>nd</sup> Ave Subway Project

P6 #4

REMARKS

PROJECT # 02736

CORING CONTRACTOR EEA

LOGGED BY JBS

DRILLER

EQUIPMENT

SEDIMENT CORING  
DRILL METHOD

TOTAL PENETRATION 2 ft.

TYPE

TOTAL RECOVERY 1.5 ft.

ROSSFELDER P-1

SIZE

DGPS Co-ordinates

ELECTRIC

VIBRATORY CORER

WATER DEPTH

15.3' @ 143

N 40° 42.105

W 74° 00.404

DEPTH	SAMPLE	STRATA	SEDIMENT - DESCRIPTION - CLASSIFICATION
			<p>Sandy silt Trace fine sand, dark grey slight pet HC odor. - ROB 2.0'</p>
5			
10			
15			
20			
25			
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# Energy and Environmental Analysts, Inc.

## SEDIMENT CORING REPORT LOG

DATE 7/12/2002		SHEET 1 OF 1	
CLIENT AKRF/NYC DOT		LOCATION ID#	
PROJECT LOCATION 2 <sup>nd</sup> Ave Subway Project		P6 #5	
REMARKS		PROJECT # 02736	
CORING CONTRACTOR EEA	LOGGED BY JBS	DRILLER	
EQUIPMENT		TOTAL PENETRATION 0 ft.	SEDIMENT CORING DRILL METHOD
TYPE		TOTAL RECOVERY 6.5 ft.	
SIZE		DGPS Co-ordinates	ROSSFELDER P-1 ELECTRIC VIBRATORY CORER
WATER DEPTH	7.42 1445	N 40 42.156      W 74 00.456	

DEPTH	SAMPLE	STRATA	SEDIMENT - DESCRIPTION - CLASSIFICATION
			<p style="font-family: cursive;">Sandy silt Dark grey. trace shell hash slight petroleum odor.</p> <p style="font-family: cursive;">ROB</p>
5	P6 #5		
10			
15			
20			
25			
30			

# Energy and Environmental Analysts, Inc.

## SEDIMENT CORING REPORT LOG

DATE 7/12/2002			SHEET 1 OF 1		
CLIENT AKRF/NYC DOT			LOCATION ID#		
PROJECT LOCATION 2 <sup>nd</sup> Ave Subway Project			P6#6		
REMARKS		PROJECT # 02736			
CORING CONTRACTOR EEA		LOGGED BY JBS		DRILLER	
EQUIPMENT		TOTAL PENETRATION		8.5	ft.
TYPE		TOTAL RECOVERY		6.5	ft.
SIZE		DGPS Co-ordinates			
WATER DEPTH	6.6 @ 1500	N 40° 42.166		W 74° 00.457	
ROSSFELDER P-1 ELECTRIC VIBRATORY CORER					

DEPTH	SAMPLE	STRATA	SEDIMENT - DESCRIPTION - CLASSIFICATION
			<p>SANDY silt Trace fine sand, trace shell hash. slight petroleum odor.</p> <p>EOB</p>
5	P6#6		
10			
15			
20			
25			
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# Tides-East 110th Street, New York City

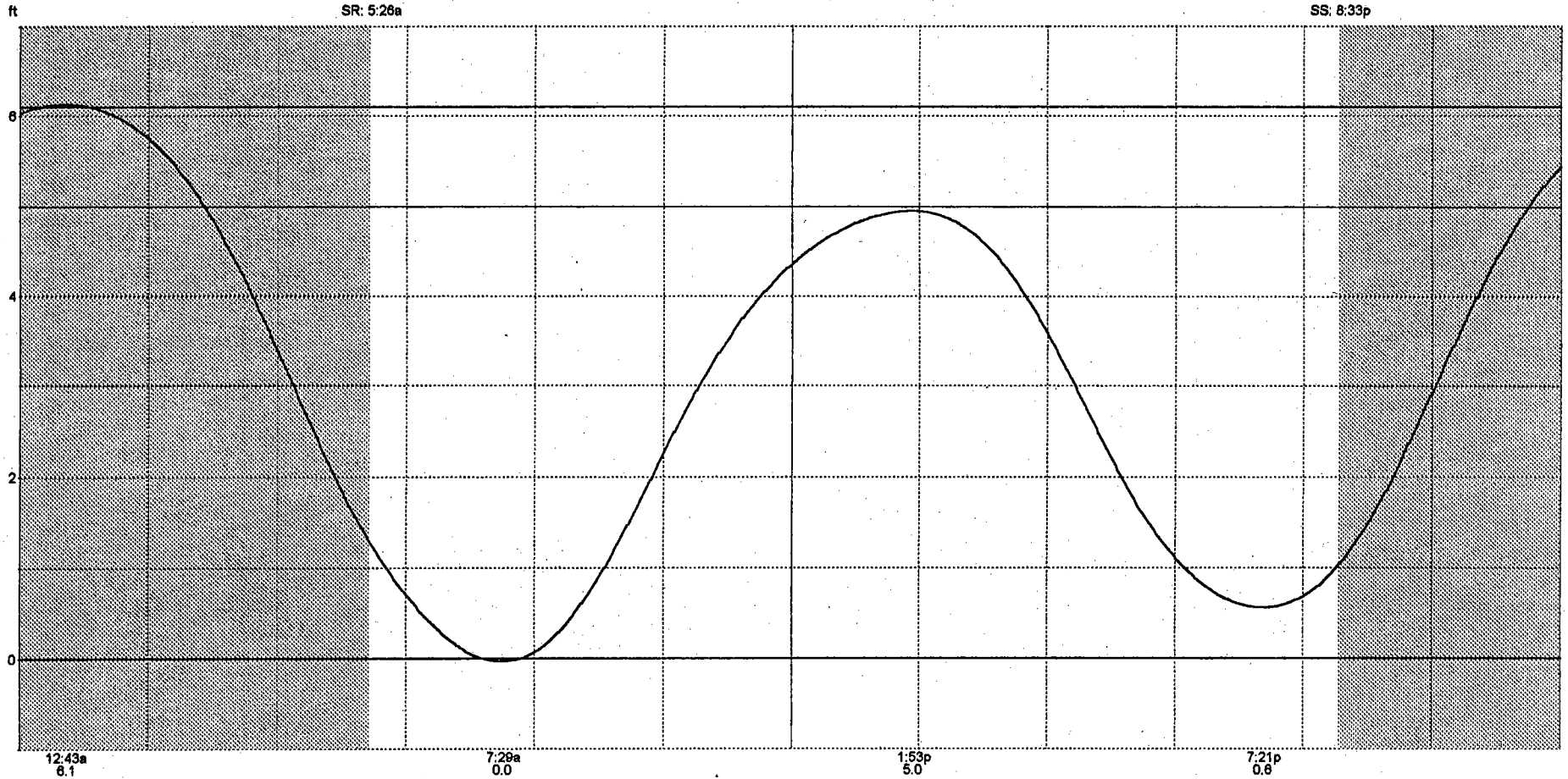
based on New York NY, (NOAA)  
40° 47' N 73° 56' W

## Friday, June 14, 2002

**Average Tides**  
Mean Range: 5.1 ft  
MHHW: 6.1 ft  
Mean Tide: 2.6 ft

**Daily Highs & Lows**  
12:43a 6.1 ft High  
7:29a 0.0 ft Low  
1:53p 5.0 ft High  
7:21p 0.6 ft Low

Moonrise: 9:23a  
Moonset: 11:55p



(EDT)	Tide
12:00a	6.0 ft
12:15a	6.1 ft
12:30a	6.1 ft
12:45a	6.1 ft
1:00a	6.1 ft
1:15a	6.1 ft
1:30a	6.0 ft
1:45a	5.9 ft
2:00a	5.8 ft
2:15a	5.6 ft
2:30a	5.4 ft
2:45a	5.1 ft
3:00a	4.8 ft
3:15a	4.5 ft
3:30a	4.2 ft
3:45a	3.8 ft
4:00a	3.4 ft
4:15a	3.0 ft
4:30a	2.6 ft
4:45a	2.2 ft
5:00a	1.9 ft
5:15a	1.5 ft
5:30a	1.2 ft
5:45a	1.0 ft
6:00a	0.7 ft
6:15a	0.5 ft
6:30a	0.3 ft
6:45a	0.2 ft
7:00a	0.1 ft
7:15a	0.0 ft
7:30a	0.0 ft
7:45a	0.0 ft
8:00a	0.1 ft
8:15a	0.2 ft
8:30a	0.4 ft
8:45a	0.6 ft
9:00a	0.9 ft
9:15a	1.2 ft
9:30a	1.5 ft
9:45a	1.9 ft
10:00a	2.3 ft
10:15a	2.6 ft
10:30a	2.9 ft
10:45a	3.2 ft
11:00a	3.5 ft
11:15a	3.8 ft
11:30a	4.0 ft
11:45a	4.2 ft
12:00p	4.4 ft
12:15p	4.5 ft
12:30p	4.6 ft
12:45p	4.7 ft
1:00p	4.8 ft
1:15p	4.9 ft
1:30p	4.9 ft
1:45p	5.0 ft
2:00p	5.0 ft
2:15p	4.9 ft
2:30p	4.9 ft
2:45p	4.7 ft
3:00p	4.6 ft
3:15p	4.4 ft
3:30p	4.2 ft
3:45p	3.9 ft
4:00p	3.6 ft
4:15p	3.2 ft
4:30p	2.9 ft
4:45p	2.6 ft
5:00p	2.2 ft
5:15p	1.9 ft
5:30p	1.6 ft
5:45p	1.3 ft
6:00p	1.1 ft
6:15p	0.9 ft
6:30p	0.8 ft
6:45p	0.7 ft
7:00p	0.6 ft
7:15p	0.6 ft
7:30p	0.6 ft
7:45p	0.6 ft
8:00p	0.7 ft
8:15p	0.8 ft
8:30p	1.0 ft
8:45p	1.2 ft
9:00p	1.5 ft
9:15p	1.8 ft
9:30p	2.2 ft
9:45p	2.5 ft
10:00p	2.9 ft
10:15p	3.3 ft
10:30p	3.7 ft
10:45p	4.1 ft
11:00p	4.4 ft
11:15p	4.7 ft
11:30p	5.0 ft
11:45p	5.2 ft
12:00a	5.4 ft

# Tides-Brooklyn Bridge

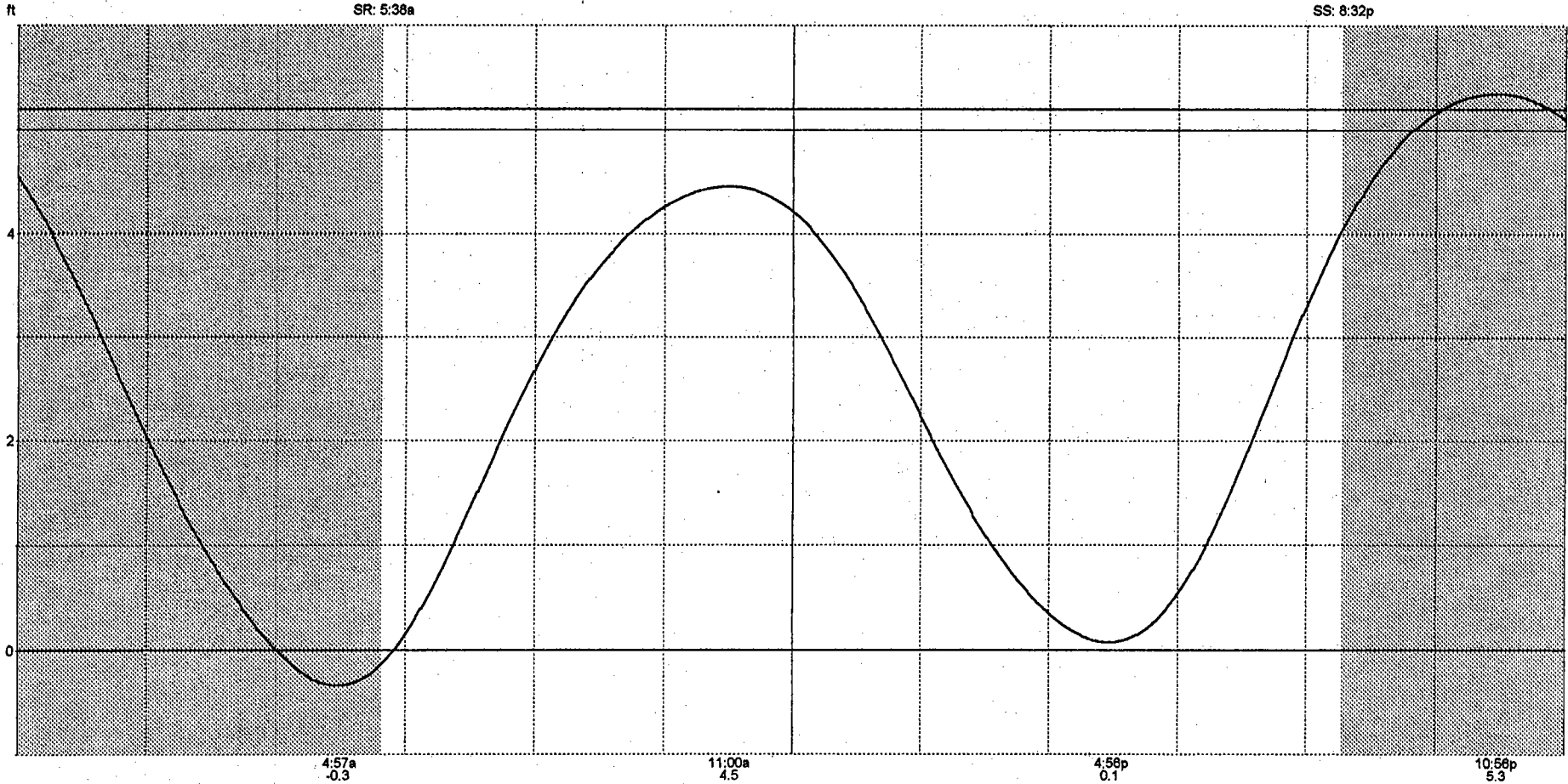
based on New York NY, (NOAA)  
40° 42' N 74° 0' W

## Friday, July 12, 2002

**Average Tides**  
Mean Range: 4.3 ft  
MHI-IWV: 6.2 ft  
Mean Tide: 2.3 ft

**Daily Highs & Lows**  
4:57a -0.3 ft Low  
11:00a 4.5 ft High  
4:56p 0.1 ft Low  
10:56p 5.3 ft High

Moonrise: 8:28a  
Moonset: 10:35p



(EDT)	Tide
12:00a	4.6 ft
12:15a	4.3 ft
12:30a	4.0 ft
12:45a	3.7 ft
1:00a	3.4 ft
1:15a	3.1 ft
1:30a	2.7 ft
1:45a	2.4 ft
2:00a	2.0 ft
2:15a	1.7 ft
2:30a	1.4 ft
2:45a	1.1 ft
3:00a	0.9 ft
3:15a	0.6 ft
3:30a	0.4 ft
3:45a	0.2 ft
4:00a	0.0 ft
4:15a	-0.1 ft
4:30a	-0.3 ft
4:45a	-0.3 ft
5:00a	-0.3 ft
5:15a	-0.3 ft
5:30a	-0.2 ft
5:45a	-0.1 ft
6:00a	0.2 ft
6:15a	0.4 ft
6:30a	0.7 ft
6:45a	1.0 ft
7:00a	1.4 ft
7:15a	1.7 ft
7:30a	2.0 ft
7:45a	2.4 ft
8:00a	2.7 ft
8:15a	3.0 ft
8:30a	3.3 ft
8:45a	3.5 ft
9:00a	3.7 ft
9:15a	3.9 ft
9:30a	4.0 ft
9:45a	4.2 ft
10:00a	4.3 ft
10:15a	4.3 ft
10:30a	4.4 ft
10:45a	4.4 ft
11:00a	4.5 ft
11:15a	4.4 ft
11:30a	4.4 ft
11:45a	4.3 ft
12:00p	4.2 ft
12:15p	4.1 ft
12:30p	3.9 ft
12:45p	3.7 ft
1:00p	3.4 ft
1:15p	3.1 ft
1:30p	2.8 ft
1:45p	2.5 ft
2:00p	2.2 ft
2:15p	1.9 ft
2:30p	1.6 ft
2:45p	1.4 ft
3:00p	1.1 ft
3:15p	0.9 ft
3:30p	0.7 ft
3:45p	0.5 ft
4:00p	0.3 ft
4:15p	0.2 ft
4:30p	0.1 ft
4:45p	0.1 ft
5:00p	0.1 ft
5:15p	0.1 ft
5:30p	0.2 ft
5:45p	0.3 ft
6:00p	0.5 ft
6:15p	0.8 ft
6:30p	1.1 ft
6:45p	1.4 ft
7:00p	1.8 ft
7:15p	2.2 ft
7:30p	2.6 ft
7:45p	3.0 ft
8:00p	3.3 ft
8:15p	3.7 ft
8:30p	4.0 ft
8:45p	4.3 ft
9:00p	4.5 ft
9:15p	4.7 ft
9:30p	4.9 ft
9:45p	5.1 ft
10:00p	5.2 ft
10:15p	5.3 ft
10:30p	5.3 ft
10:45p	5.3 ft
11:00p	5.3 ft
11:15p	5.3 ft
11:30p	5.3 ft
11:45p	5.2 ft
12:00a	5.1 ft