



SAIC Engineering, Inc.

A Subsidiary of Science Applications International Corporation

An Employee-Owned Company

SCANNED

October 30, 1998

01-0827-05-0051-001



U.S. Environmental Protection Agency
Region 1
John F. Kennedy Building
Boston, Massachusetts 02203

Attention: Mr. Frank Ciavattieri

Reference: **Aerovox Site Post-Closure Monitoring,
October 4, 5 and 6, 1998**

Dear Mr. Ciavattieri:

Enclosed are the results of the water level monitoring and cap inspection conducted at the Aerovox site by SAIC Engineering, Inc. during the October, 1998 full moon period. In 1998 the closest full moon to the Autumnal Equinox was during the first week in October.

The next inspection and round of water level readings are scheduled for the March 1999 full moon period. Please call if you have any questions.

Sincerely,

SAIC ENGINEERING, INC.

Allen F. Davis, P.E.
Project Manager

Enclosures

cc: G. Monte, DEP/SERO
P. Galvani, Ropes & Gray
P. Szwaja, Aerovox



POST-CLOSURE MONITORING REPORT
AEROVOX, INC.
NEW BEDFORD, MASSACHUSETTS

I certify under penalty of law that I have personally examined and am familiar with the information in this inspection report and all attachments, and that, based on my inquiry of those individuals immediately responsible for obtaining information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Peter Szwaja
Name

Oct. 30, 98
Date


Signature

Environmental Control Engineer
Official Title

LIST OF ATTACHMENTS

Tables 1A and 1B Dated: 10/04/98

Tables 2A and 2B Dated: 10/05/98

Tables 3A and 3B Dated: 10/06/98

Cap Inspection Report - Fall 1998

TABLE 1A

WATER LEVEL READINGS

**AEROVOX PLANT SITE
NEW BEDFORD, MASSACHUSETTS**

Tide Stage: High
Time of Tide: 1930
Date: October 4, 1988
Time of Readings: 1910 - 1955

LOCATION	TOP OF CASING ELEVATION (1)(2)	BASELINE ELEVATION (3)	CURRENT READING	CURRENT ELEVATION	CHANGE IN ELEVATION vs. BASELINE	RANGE OF ELEVATION OVER PREVIOUS 170 MONTHS (4)
Tide Gauge	4.76		1.47	3.29		
Well No. 2	6.92		4.56	2.36		
Well No. 2A	6.67	2.62	3.76	2.91	0.29	1.51 - 4.00
Well No. 3	6.95		5.20	1.75		
Well No. 3A	8.26	1.86	6.36	1.90	0.04	0.78 - 3.31
Well No. 4	10.99		8.87	2.12		
Well No. 4A	10.78	2.28	8.68	2.10	-0.18	1.60 - 3.88
Well No. 7	7.59		5.15	2.44		
Well No. 7A	7.33	2.60	4.62	2.71	0.11	2.38 - 3.40

NOTES:

Readings by: David Minese
Affiliation: SAIC Engineering, Inc., 101 East Grove Street, Middleboro, Massachusetts, 02346

FOOTNOTES:

- (1) All readings and elevations are in feet and are referenced to mean sea level datum.
- (2) Tide elevation is measured in reference to a known elevation of 4.76 ft., at a point on sheet piling near Well No. 2.
- (3) Baseline elevations shown for shallow wells Nos. 2A, 3A, 4A, and 7A are average monthly readings recorded for July 1984 through June 1985.
- (4) Numbers in this column are the range of recorded elevations from July 1984 through October 1988.



TABLE 1B

WATER LEVEL READINGS

**AEROVOX PLANT SITE
NEW BEDFORD, MASSACHUSETTS**

Tide Stage: Low
Time of Tide: 1249
Date: October 4, 1998
Time of Readings: 1218 - 1300

LOCATION	TOP OF CASING ELEVATION (1)(2)	BASELINE ELEVATION (3)	CURRENT READING	CURRENT ELEVATION	CHANGE IN ELEVATION vs. BASELINE	RANGE OF ELEVATION OVER PREVIOUS 170 MONTHS (4)
Tide Gauge	4.76		Dry	--		
Well No. 2	6.92		6.20	0.72		
Well No. 2A	6.67	2.62	3.81	2.86	0.24	1.51 - 4.00
Well No. 3	6.95		6.25	0.70		
Well No. 3A	8.26	1.86	6.37	1.89	0.03	0.78 - 3.31
Well No. 4	10.99		11.06	-0.07		
Well No. 4A	10.78	2.28	8.57	2.11	-0.17	1.60 - 3.88
Well No. 7	7.59		7.75	-0.16		
Well No. 7A	7.33	2.60	4.62	2.71	0.11	2.38 - 3.40

NOTES:

Readings by: David Minese
Affiliation: SAIC Engineering, Inc., 101 East Grove Street, Middleboro, Massachusetts, 02346

FOOTNOTES:

- (1) All readings and elevations are in feet and are referenced to mean sea level datum.
- (2) Tide elevation is measured in reference to a known elevation of 4.76 ft., at a point on sheet piling near Well No. 2.
- (3) Baseline elevations shown for shallow wells Nos. 2A, 3A, 4A, and 7A are average monthly readings recorded for July 1984 through June 1985.
- (4) Numbers in this column are the range of recorded elevations from July 1984 through October 1998.

TABLE 2A

WATER LEVEL READINGS

**AEROVOX PLANT SITE
NEW BEDFORD, MASSACHUSETTS**

Tide Stage: High
Time of Tide: 755
Date: October 5, 1998
Time of Readings: 0740 - 0817

LOCATION	TOP OF CASING ELEVATION (1)(2)	BASELINE ELEVATION (3)	CURRENT READING	CURRENT ELEVATION	CHANGE IN ELEVATION vs. BASELINE	RANGE OF ELEVATION OVER PREVIOUS 170 MONTHS (4)
Tide Gauge	4.76		1.50	3.26		
Well No. 2	6.92		4.96	1.96		
Well No. 2A	6.67	2.62	3.87	2.80	0.18	1.51 - 4.00
Well No. 3	6.95		5.17	1.78		
Well No. 3A	8.26	1.86	6.48	1.78	-0.08	0.78 - 3.31
Well No. 4	10.99		8.88	2.11		
Well No. 4A	10.78	2.28	8.69	2.09	-0.19	1.60 - 3.88
Well No. 7	7.59		5.27	2.32		
Well No. 7A	7.33	2.60	4.63	2.70	0.10	2.38 - 3.40

NOTES:

Readings by: David Minese
Affiliation: SAIC Engineering, Inc., 101 East Grove Street, Middleboro, Massachusetts, 02346

FOOTNOTES:

- (1) All readings and elevations are in feet and are referenced to mean sea level datum.
- (2) Tide elevation is measured in reference to a known elevation of 4.76 ft., at a point on sheet piling near Well No. 2.
- (3) Baseline elevations shown for shallow wells Nos. 2A, 3A, 4A, and 7A are average monthly readings recorded for July 1984 through June 1985.
- (4) Numbers in this column are the range of recorded elevations from July 1984 through October 1998.

TABLE 2B

WATER LEVEL READINGS

**AEROVOX PLANT SITE
NEW BEDFORD, MASSACHUSETTS**

Tide Stage: Low
Time of Tide: 1341
Date: October 5, 1988
Time of Readings: 1318 - 1400

LOCATION	TOP OF CASING ELEVATION (1) (2)	BASELINE ELEVATION (3)	CURRENT READING	CURRENT ELEVATION	CHANGE IN ELEVATION vs. BASELINE	RANGE OF ELEVATION OVER PREVIOUS 170 MONTHS (4)
Tide Gauge	4.76		Dry			
Well No. 2	6.92		6.40	0.52		
Well No. 2A	6.67	2.62	3.87	2.80	0.18	1.51 - 4.00
Well No. 3	6.95		6.26	0.69		
Well No. 3A	8.26	1.86	6.32	1.94	0.08	0.78 - 3.31
Well No. 4	10.99		11.01	-0.02		
Well No. 4A	10.78	2.28	8.69	2.09	-0.19	1.60 - 3.88
Well No. 7	7.59		7.70	-0.11		
Well No. 7A	7.33	2.60	4.60	2.73	0.13	2.38 - 3.40

NOTES:

Readings by: David Minese
Affiliation: SAIC Engineering, Inc., 101 East Grove Street, Middleboro, Massachusetts, 02346

FOOTNOTES:

- (1) All readings and elevations are in feet and are referenced to mean sea level datum.
- (2) Tide elevation is measured in reference to a known elevation of 4.76 ft., at a point on sheet piling near Well No. 2.
- (3) Baseline elevations shown for shallow wells Nos. 2A, 3A, 4A, and 7A are average monthly readings recorded for July 1984 through June 1985.
- (4) Numbers in this column are the range of recorded elevations from July 1984 through October 1988.

TABLE 3A

WATER LEVEL READINGS

**AEROVOX PLANT SITE
NEW BEDFORD, MASSACHUSETTS**

Tide Stage: High
Time of Tide: 843
Date: October 6, 1998
Time of Readings: 0821 - 0905

LOCATION	TOP OF CASING ELEVATION (1) (2)	BASELINE ELEVATION (3)	CURRENT READING	CURRENT ELEVATION	CHANGE IN ELEVATION vs. BASELINE	RANGE OF ELEVATION OVER PREVIOUS 170 MONTHS (4)
Tide Gauge	4.76		1.16	3.60		
Well No. 2	6.92		4.95	1.97		
Well No. 2A	6.67	2.62	3.90	2.77	0.15	1.51 - 4.00
Well No. 3	6.95		5.13	1.82		
Well No. 3A	8.26	1.86	6.33	1.93	0.07	0.78 - 3.31
Well No. 4	10.99		8.75	2.24		
Well No. 4A	10.78	2.28	8.72	2.06	-0.22	1.60 - 3.88
Well No. 7	7.59		5.03	2.56		
Well No. 7A	7.33	2.60	4.58	2.75	0.15	2.38 - 3.40

NOTES:

Readings by: David Minese
Affiliation: SAIC Engineering, Inc., 101 East Grove Street, Middleboro, Massachusetts, 02346

FOOTNOTES:

- (1) All readings and elevations are in feet and are referenced to mean sea level datum.
- (2) Tide elevation is measured in reference to a known elevation of 4.76 ft. at a point on sheet piling near Well No. 2.
- (3) Baseline elevations shown for shallow wells Nos. 2A, 3A, 4A, and 7A are average monthly readings recorded for July 1984 through June 1985.
- (4) Numbers in this column are the range of recorded elevations from July 1984 through October 1998.

TABLE 3B

WATER LEVEL READINGS

**AEROVOX PLANT SITE
NEW BEDFORD, MASSACHUSETTS**

Tide Stage: Low
Time of Tide: 1431
Date: October 6, 1998
Time of Readings: 1430 - 1500

LOCATION	TOP OF CASING ELEVATION (1)(2)	BASELINE ELEVATION (3)	CURRENT READING	CURRENT ELEVATION	CHANGE IN ELEVATION vs. BASELINE	RANGE OF ELEVATION OVER PREVIOUS 170 Months (4)
Tide Gauge	4.76		Dry	..		
Well No. 2	6.92		6.45	0.47		
Well No. 2A	6.67	2.62	3.86	2.81	0.19	1.51 - 4.00
Well No. 3	6.95		6.32	0.63		
Well No. 3A	8.26	1.86	6.49	1.77	-0.09	0.78 - 3.31
Well No. 4	10.99		11.09	-0.10		
Well No. 4A	10.78	2.28	8.73	2.05	-0.23	1.60 - 3.88
Well No. 7	7.59		7.77	-0.18		
Well No. 7A	7.33	2.60	4.54	2.79	0.19	2.38 - 3.40

NOTES:

Readings by: David Minese
Affiliation: SAIC Engineering, Inc., 101 East Grove Street, Middleboro, Massachusetts, 02346

FOOTNOTES:

- (1) All readings and elevations are in feet and are referenced to mean sea level datum.
- (2) Tide elevation is measured in reference to a known elevation of 4.76 ft. at a point on sheet piling near Well No. 2.
- (3) Baseline elevations shown for shallow wells Nos. 2A, 3A, 4A, and 7A are average monthly readings recorded for July 1984 through June 1985.
- (4) Numbers in this column are the range of recorded elevations from July 1984 through October 1998.

SHEET PILING/CAP INSPECTION REPORT - FALL 1998

AEROVOX PLANT SITE
NEW BEDFORD, MASSACHUSETTS

	Check if any listed defect is observed				
	CRACKS OR GAPS	FLAKING OR SPALLING	FROST HEAVES	DEPRESSION OR SETTLEMENT	OTHER
A. 8-foot wide strip adjacent to north trough					
1. Surface					
2. Joints					
B. Directly behind plant					
1. Surface					
2. Joints					
* along building					
* around cooling tower	X				See Note No. 1
* around well casings	X				See Note No. 2
* along steel pilings					
* around fence posts					
C. Remaining area on either side of old pump house					
1. Surface					
2. Joints					
* around well casings					
* around fence posts					
* along steel pilings					
D. South drainage trough extension (concrete pipe)					
1. Surface					
2. Joints					

Inspection by : David Minese
Affiliation : SAIC Engineering, Inc., 101 East Grove Street, Middleboro, Massachusetts 02346

Note No. 1: Minor cracks between building and chilling units
Also, crack south of northeast corner of fenced area should be resealed

Note No. 2: Minor cracking near wells 2 and 2A and, in general, any new cracks should be resealed