

Follow-up on  
cap sealing  
recommendations  
DMD 4/22/97

David Anderson



**SAIC Engineering, Inc.**

**A Subsidiary of Science Applications International Corporation**

An Employee-Owned Company



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April 16, 1997

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

Regional Air Quality Center  
Aerovox  
8.4

Attention: Mr. Frank Ciavattieri

**Reference: Aerovox Site Post-Closure Monitoring,  
March 22, 23 and 24, 1997**

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 March 1997 full moon period.

The next inspection and round of water level readings are scheduled for the September 1997 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

**Document produced to AVX in  
response to July 31, 2006 inquiry**

**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

APRIL 16, 97  
Date

Peter Szwaja  
Signature

Environmental Control Engineer  
Official Title

**LIST OF ATTACHMENTS**

Tables 1A and 1B      Dated: 3/22/97  
Tables 2A and 2B      Dated: 3/23/97  
Tables 3A and 3B      Dated: 3/24/97  
Cap Inspection Report - Spring 1996

**TABLE 1A****WATER LEVEL READINGS****AEROVOX PLANT SITE  
NEW BEDFORD, MASSACHUSETTS****Tide Stage: High  
Time of Tide: 0642  
Date: March 22, 1997  
Time of Readings: 0630 - 0727**

<b>LOCATION</b>	<b>TOP OF CASING ELEVATION (1) (2)</b>	<b>BASELINE ELEVATION (3)</b>	<b>CURRENT READING</b>	<b>CURRENT ELEVATION</b>	<b>CHANGE IN ELEVATION vs. BASELINE</b>	<b>RANGE OF ELEVATION OVER PREVIOUS 152 MONTHS (4)</b>
Tide Gauge	4.76		1.73	3.03		
Well No. 2	6.92		4.60	2.32		
Well No. 2A	6.67	2.62	3.35	3.32	0.70	1.51 - 4.00
Well No. 3	6.95		4.64	2.31		
Well No. 3A	8.26	1.86	6.03	2.23	0.37	0.78 - 3.31
Well No. 4	10.99		8.70	2.29		
Well No. 4A	10.78	2.28	7.69	3.09	0.81	1.60 - 3.88
Well No. 7	7.59		5.03	2.56		
Well No. 7A	7.33	2.60	4.37	2.96	0.36	2.38 - 3.40

**NOTES:****Weather: 40 degrees F, Rain  
Readings by: Mark Panni  
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 March, 1997.

**TABLE 1B****WATER LEVEL READINGS**

**AEROVOX PLANT SITE  
NEW BEDFORD, MASSACHUSETTS**

Tide Stage: Low  
Time of Tide: 1239  
Date: March 22, 1997  
Time of Readings: 1235 - 1301

LOCATION	TOP OF CASING ELEVATION (1) (2)	BASELINE ELEVATION (3)	CURRENT READING	CURRENT ELEVATION	CHANGE IN ELEVATION vs. BASELINE	RANGE OF ELEVATION OVER PREVIOUS 152 MONTHS (4)
Tide Gauge	4.76		Dry	--		
Well No. 2	6.92		5.15	1.77		
Well No. 2A	6.67	2.62	3.35	3.32	0.70	1.51 - 4.00
Well No. 3	6.95		5.38	1.57		
Well No. 3A	8.26	1.86	5.59	2.67	0.81	0.78 - 3.31
Well No. 4	10.99		10.05	0.94		
Well No. 4A	10.78	2.28	7.61	3.17	0.89	1.60 - 3.88
Well No. 7	7.59		6.75	0.84		
Well No. 7A	7.33	2.60	4.40	2.93	0.33	2.38 - 3.40

**NOTES:**

Weather: 40 degrees F, Partly Sunny  
Readings by: Mark Panni  
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.

**TABLE 2A****WATER LEVEL READINGS**

**AEROVOX PLANT SITE  
NEW BEDFORD, MASSACHUSETTS**

Tide Stage: High  
Time of Tide: 0721  
Date: March 23, 1997  
Time of Readings: 0703 - 0747

LOCATION	TOP OF CASING ELEVATION (1) (2)	BASELINE ELEVATION (3)	CURRENT READING	CURRENT ELEVATION	CHANGE IN ELEVATION vs. BASELINE	RANGE OF ELEVATION OVER PREVIOUS 152 MONTHS (4)
Tide Gauge	4.76		2.09	2.67		
Well No. 2	6.92		4.79	2.13		
Well No. 2A	6.67	2.62	3.57	3.10	0.48	1.51 - 4.00
Well No. 3	6.95		4.87	2.08		
Well No. 3A	8.26	1.86	6.13	2.13	0.27	0.78 - 3.31
Well No. 4	10.99		8.74	2.25		
Well No. 4A	10.78	2.28	7.60	3.18	0.90	1.60 - 3.88
Well No. 7	7.59		5.19	2.40		
Well No. 7A	7.33	2.60	4.45	2.88	0.28	2.38 - 3.40

**NOTES:**

Weather: 30 degrees F, Clear, Windy  
Readings by: Mark Panni  
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 March, 1997.

**TABLE 2A****WATER LEVEL READINGS****AEROVOX PLANT SITE  
NEW BEDFORD, MASSACHUSETTS****Tide Stage: High  
Time of Tide: 0721  
Date: March 23, 1997  
Time of Readings: 0703 - 0747**

<b>LOCATION</b>	<b>TOP OF CASING ELEVATION (1) (2)</b>	<b>BASELINE ELEVATION (3)</b>	<b>CURRENT READING</b>	<b>CURRENT ELEVATION</b>	<b>CHANGE IN ELEVATION vs. BASELINE</b>	<b>RANGE OF ELEVATION OVER PREVIOUS 152 MONTHS (4)</b>
Tide Gauge	4.76		2.09	2.67		
Well No. 2	6.92		4.79	2.13		
Well No. 2A	6.67	2.62	3.57	3.10	0.48	1.51 - 4.00
Well No. 3	6.95		4.87	2.08		
Well No. 3A	8.26	1.86	6.13	2.13	0.27	0.78 - 3.31
Well No. 4	10.99		8.74	2.25		
Well No. 4A	10.78	2.28	7.60	3.18	0.90	1.60 - 3.88
Well No. 7	7.59		5.19	2.40		
Well No. 7A	7.33	2.60	4.45	2.88	0.28	2.38 - 3.40

**NOTES:****Weather: 30 degrees F, Clear, Windy****Readings by: Mark Panni****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 March, 1997.

**TABLE 3A****WATER LEVEL READINGS****AEROVOX PLANT SITE  
NEW BEDFORD, MASSACHUSETTS****Tide Stage: High  
Time of Tide: 0800  
Date: March 24, 1997  
Time of Readings: 0748 - 0821**

<b>LOCATION</b>	<b>TOP OF CASING ELEVATION (1) (2)</b>	<b>BASELINE ELEVATION (3)</b>	<b>CURRENT READING</b>	<b>CURRENT ELEVATION</b>	<b>CHANGE IN ELEVATION vs. BASELINE</b>	<b>RANGE OF ELEVATION OVER PREVIOUS 152 MONTHS (4)</b>
Tide Gauge	4.76		2.60	2.16		
Well No. 2	6.92		4.98	1.94		
Well No. 2A	6.67	2.62	3.71	2.96	0.34	1.51 - 4.00
Well No. 3	6.95		5.07	1.88		
Well No. 3A	8.26	1.86	6.31	1.95	0.09	0.78 - 3.31
Well No. 4	10.99		8.90	2.09		
Well No. 4A	10.78	2.28	7.69	3.09	0.81	1.60 - 3.88
Well No. 7	7.59		5.39	2.20		
Well No. 7A	7.33	2.60	4.47	2.86	0.26	2.38 - 3.40

**NOTES:**

Weather: 35 degrees F, Clear

Readings by: Mark Panni

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.

**TABLE 3B****WATER LEVEL READINGS**

**AEROVOX PLANT SITE  
NEW BEDFORD, MASSACHUSETTS**

Tide Stage: Low  
Time of Tide: 1336  
Date: March 24, 1997  
Time of Readings: 1314 - 1346

LOCATION	TOP OF CASING ELEVATION (1) (2)	BASELINE ELEVATION (3)	CURRENT READING	CURRENT ELEVATION	CHANGE IN ELEVATION vs. BASELINE	RANGE OF ELEVATION OVER PREVIOUS 152 MONTHS (4)
Tide Gauge	4.76		Dry	--		
Well No. 2	6.92		5.20	1.72		
Well No. 2A	6.67	2.62	3.70	2.97	0.35	1.51 - 4.00
Well No. 3	6.95		6.05	0.90		
Well No. 3A	8.26	1.86	5.55	2.71	0.85	0.78 - 3.31
Well No. 4	10.99		9.56	1.43		
Well No. 4A	10.78	2.28	7.67	3.11	0.83	1.60 - 3.88
Well No. 7	7.59		7.54	0.05		
Well No. 7A	7.33	2.60	4.45	2.88	0.28	2.38 - 3.40

**NOTES:**

Weather: 40 degrees F, Clear, Light Wind  
Readings by: Mark Panni  
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 March, 1997.

**SHEET PILING/CAP INSPECTION REPORT - SPRING 1997**

**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	
<b>A.</b>	<b>8-foot wide strip adjacent to north trough</b>						
	1. Surface	x					See Note No. 1
	2. Joints						
<b>B.</b>	<b>Directly behind plant</b>						
	1. Surface	x					See Note No.2
	2. Joints						
	* along building						
	* around cooling tower						
	* around well casings						
	* along steel pilings						
	* around fence posts						
<b>C.</b>	<b>Remaining area on either side of old pump house</b>						
	1. Surface						
	2. Joints						
	* around well casings						
	* around fence posts						
	* along steel pilings						
<b>D.</b>	<b>South drainage trough extension (concrete pipe)</b>						
	1. Surface						
	2. Joints	x					See Note No. 3

Inspection by : Allen F. Davis 4/16/97

Affiliation : SAIC Engineering, Inc., 101 East Grove Street, Middleboro, Massachusetts 02346

Note No. 1: Cracking near northeast corner of building should be resealed.

Note No. 2: Crack extending easterly under the fence should be resealed.  
North/South crack east of the fence and North/South crack within the fence should be resealed.

Note No. 3: Joints between south concrete trough and asphalt paving, south of fence, should be sealed.  
Easternmost joint of concrete pipe section of the south trough should be sealed.