RETURN TO 1998 ROD AR INDEX

7.2:9

WESTON
MANAGERS DESIGNERS/CONSULTANTS
Roy F. Weston, Inc.
4th Floor
67 Batterymarch Street
Boston, Massachusetts 02110-3206
617-204-2700 • Fax 617-204-2701

05 February 1997
Work Order No. 03886-118-002-0700-00

Mr. Maurice Beaudoin, Resident Engineer
Department of the Army
New England Division, Corps of Engineers
New Bedford Resident Office
103 Sawyer Street
New Bedford, MA 02746

Superfund Records Center
SITE: NEW BEDFORD
BREAK: 7.2
OTHER: 46745

Reference: Contract No. DACW33-95-D-0004
Delivery Order No. 0002
New Bedford Harbor Superfund Site
Sawyer Street Site O & M
DCN-NBH-020597-AAIQ

Subject: Quarterly Groundwater Sampling Results - Fourth Quarter 1996

Dear Mr. Beaudoin:

This is a Letter Report summarizing quarterly groundwater sampling activities and results at the New Bedford Harbor Sawyer Street Site. Seven on-site groundwater monitoring wells (MW-1, MW-2, MW-3, MW-4A, MW-5, MW-6, and MW-7A) were sampled on 19 and 20 December 1996. The attached Site Plan shows the locations of on-site monitoring wells. Table 1 summarizes the groundwater samples collected. Table 2 summarizes the final field parameters measured at each location after well purging, but prior to sample collection. Table 3 summarizes the analytical results of the sampling.

As shown on Table 3, the total and dissolved concentrations of cadmium in MW-3 exceeded the cadmium U.S. EPA Maximum Contaminant Level (MCL) of 5.0 parts per billion (ppb). No other exceedances of MCLs were noted. Data validation notes and the laboratory data transmittals for the 19 and 20 December 1996 groundwater sampling results are attached.

During the groundwater sampling event on 19 and 20 December 1996, the depression area located east of the Confined Disposal Facility (CDF) was inundated with standing water to a maximum depth of approximately 2.0 feet. Monitoring wells MW-2 and MW-3 are located in this area, and the depth of standing water in the vicinity of these two wells was observed to be approximately 1.5 feet. Standing water in the vicinity of these wells may affect the natural, measured depth to water in the wells and may also affect the quality of groundwater in this area. The depression area is utilized as a discharge area for rain water which accumulates on the covers of CDF cells.

SDMS DocID 46745

Please call me at (617) 204-2700 if you have any questions regarding this Letter Report.

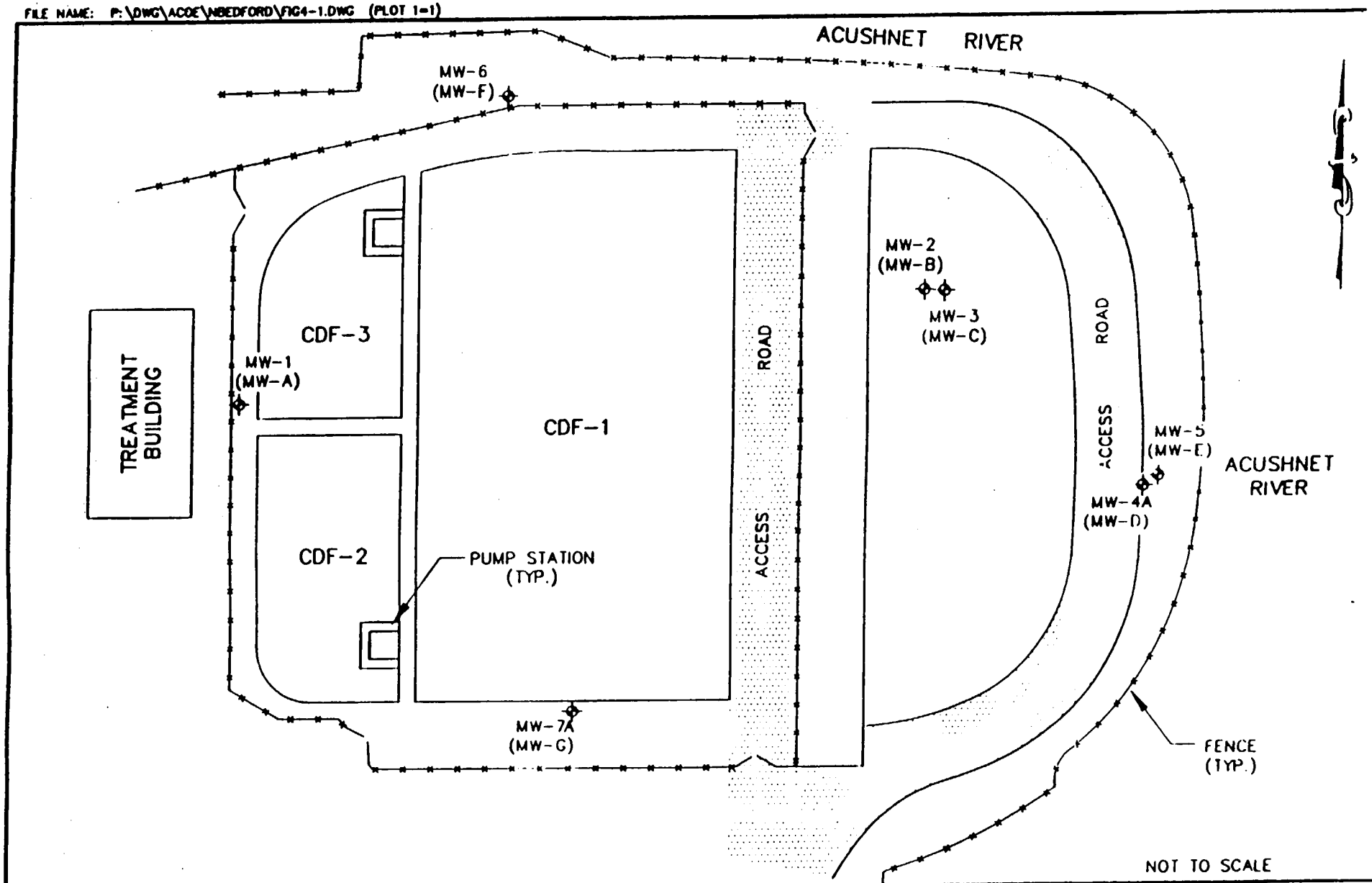
Very Truly Yours,

ROY F. WESTON, INC.

James S. Chow
Assistant Geoscientist II

cc: T. Abdella (WESTON)
L. Lemay [WESTON DCN File (2)]
M. Otis (CENED)
Project File (BMA)

FILE NAME: P:\DWG\ACOE\NBEDFORD\FIG4-1.DWG (PLOT 1=1)



SITE PLAN

NEW BEDFORD HARBOR SUPERFUND SITE
NEW BEDFORD, MASSACHUSETTS

ROY F. WESTON, INC.
WESTON
MANAGERS DESIGNERS/CONSULTANTS

DRAWN	DATE	DES. ENG.	DATE	W. O. NO.
K.J.C.	MAY 96			03886-118-00
CHECKED		APPROVLD		DWG NO

Table 1

New Bedford Harbor Sawyer Street Site
Quarterly Groundwater Sampling - 19 and 20 December 1996
Sample Summary

SAMPLE LOCATION	SAMPLE ID	QC/FIELD DUP SAMPLE ID	RINSATE BLANK ID	MS/MSD SAMPLE ID	*QA LAB SAMPLE ID	SAMPLE DATE	SAMPLE TIME	COMMENTS
MW-1	001-1296	101-1296				12/19/96	1030 hours	Field duplicate sample (101-1296) collected @1100 hours
MW-2	002-1296		202-1296			12/19/96	1400 hours	Blank sample (202-1296) collected @1200 hours.
MW-3	003-1296					12/19/96	1430 hours	
MW-4A	004-1296			004-1296		12/20/96	0930 hours	
MW-5	005-1296				*005-1296-QA	12/20/96	1400 hours	
MW-6	006-1296					12/19/96	1130 hours	
MW-7A	007-1296					12/19/96	0935 hours	

*QA Lab sample shipped to:

Mr. Dave Lubianez
ACOE New England Division Environmental Lab
476 Coldbrook Road
Hubbardston, MA 01452
phone (508) 928-4238
NB Harbor Project No. E0562

All other samples shipped through Thermo Analytical, 300 Second Ave., Waltham, MA to:

Mr. Brad Ayars
Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605
phone (717) 656-2300

Table 2

New Bedford Harbor Sawyer Street Site
Quarterly Groundwater Sampling - 19 and 20 December 1996
Final Field Measurments

Well ID	Sample Date	Depth of Water (ft)*	pH	Temperature (°C)	Specific Conductivity (mmhos/cm)
MW-1	12/19/96	14.20	7.00	14.0	0.92
MW-2	12/19/96	8.20	7.10	11.5	3.45
MW-3	12/19/96	3.30	7.00	9.5	2.05
MW-4A	12/20/96	5.45	7.20	10.2	9.00
MW-5	12/20/96	4.65	7.30	10.5	1.55
MW-6	12/19/96	12.60	7.10	13.0	0.50
MW-7A	12/19/96	9.90	7.30	12.9	0.90

*Depth of water measured from top of inner Teflon well casing.

Tide Schedule for New Bedford on 19 December 1996:
High Tide: 0301 and 1527 hours.
Low Tide: 0927 and 2129 hours.

Tide Schedule for New Bedford on 20 December 1996:
High Tide: 0359 and 1623 hours.
Low Tide: 1036 and 2228 hours.

Table 3

New Bedford Harbor Sawyer Street Site
Quarterly Groundwater Sampling - 19 and 20 December 1996
Analytical Results

Compounds Dectected		Groundwater Sampling Locations									
		US EPA MCL	MCP GW-1 Standard	MW-1	MW-1 Duplicate	MW-2	MW-3	MW-4A	MW-5	MW-6	MW-7A
PCBs	Total	0.5	0.5	ND	ND	ND	0.1 J	ND	ND	ND	ND
	Dissolved	0.5	0.5	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	Total	5.0	5.0	ND	ND	ND	**5.4 J**	ND	ND	ND	ND
	Dissolved	5.0	5.0	ND	ND	ND	4.3 J	ND	ND	ND	ND
Chromium	Total	100.0	100.0	7.4 J	ND	ND	ND	ND	ND	ND	7.9 J
	Dissolved	100.0	100.0	ND	ND	ND	ND	ND	ND	ND	ND
Copper	Total	1,300.0	NA	ND	ND	ND	52.0	ND	ND	ND	ND
	Dissolved	1,300.0	NA	ND J	9.0 J	ND	23.0 J	ND	ND	ND	ND
Lead	Total	15.0	15.0	4.9 J	2.2 J	ND J	ND J	1.2 J	ND J	ND J	3.4 J
	Dissolved	15.0	15.0	ND J	ND J	8.4 J	6.2 J	9.3 J	ND J	ND J	ND J

Note: Shaded areas indicate results exceeding US EPA MCL or MCP GW-1 standards for groundwater.
Results reported in micrograms per liter (µg/L = parts per billion).

NA = Not Applicable.
ND = Not Detected.
J = Estimated value.
U.S. EPA MCL = US EPA Maximum Contaminant Level standards for groundwater.
MCP GW-1 Standard = Massachusetts Contingency Plan (per Massachusetts Department of Environmental Protection) GW-1 standards for groundwater.