02.01- 2/9/2000- 02382

UNITED STATES MARINE CORPS
MARINE CORPS BASE
PSC BOX 20004
CAMP LEJEUNE, NORTH CAROLINA 28542-0004

IN REPLY REFER TO:
6287
BEMD
9 FEB 2000

Dr. Luanne Williams
North Carolina Department of Environment
and Natural Resources
Division of Toxicology
Suite 150
401 Oberlin Road
Raleigh, North Carolina 27605

Dear Dr. Williams:

Recent soil and groundwater testing at IR Site 89 has revealed that there are significant areas of surface and subsurface contamination at the site. Analytical results indicate that contaminants of concern 1,1,2,2-tetrachloroethane (PCA) and Trichloroethene (TCE) are present at the site at levels significantly above the regulatory standards.

Associated testing of Edwards Creek which runs adjacent to the site and ultimately empties out into the New River has disclosed evidence of related contamination as shown in Enclosure 1. Although the levels of surface water and sediment contamination are not high, there are contaminants present that are above regulatory standards for surface water.

Although the main body of the creek near Site 89 is intermittent, the area named Jack's Point where the creek meets the New River is fished. The testing has shown that these contaminants are not reaching Jack's Point.

The type of contaminant, volatile organic compounds, has relatively low probability of bioconcentration and bioaccumulation. Accordingly, we believe the levels of contamination would not warrant the enactment of a fish advisory for Edwards Creek and the New River.

However, due to the significant levels of contamination that are present at Site 89 and the sensitive nature of this problem, we would appreciate your review of the situation and your recommendations on the enactment of a fish advisory.

6287
BEMD

Point of contact is Mr. Rick Raines, Installation Restoration Division, Environmental Management Department, at telephone number (910) 451-5068.

Sincerely,

SCOTT A. BREWER, PE
Deputy Assistant Chief of Staff
Environmental Management
By direction of
the Commanding General

Enclosure: 1. Results of Edwards Creek Sampling December 1999

Copy to:
COMLANTNAVFACENGCOM (K. Landman) ✓
NCDENR (D. Lown)
EPA (G. Townsend)

OHM Remediation Services Corp.
11560 Great Oaks Way, Suite 500
Alpharetta, GA 30022-2424
Tel. 770.475.8994
Fax. 770.777.9545

A Member of The IT Group

December 29, 1999

Mr. Neal Paul
AC/S EMD/IR
Building 58
PSC Box 20004
Camp Lejeune, NC 28542-0004

Re: Sampling of Edwards Creek
Site 89, DO. 0083
Contract N62470-93-D-3032
MCB Camp Lejeune, NC

Dear Mr. Paul:

As directed by the RPM and ROICC, OHM sampled the surface water and sediments of the Edwards Creek and its discharge into the New River after convergence with Strawhorn Creek. The locations of the eight sample points are indicated on the attached Figure 4-7 prepared by Baker Environmental, Inc.

A Summary Table of the results is attached. All detections are in ppb (parts per billion). Several of the samples were diluted and rerun by the laboratory to obtain the indicated results. A QC check of the data has been performed by our Program Chemist and follows the tabular data.

Should you have any questions concerning the data, please do not hesitate to contact us.

Sincerely,
OHM Remediation Services Corp.

James A. Dunn, Jr., PE
Senior Project Manager

pc: Kate Landman, RPM
Gena Townsend, EPA
Diane Rossi, NCDENR
Mark Martin, Lejeune w/pkg.
Kathy Chavara, Baker w/pkg
Dave Lown, NCDENR
Rick Raines, EMD
File Job 917536

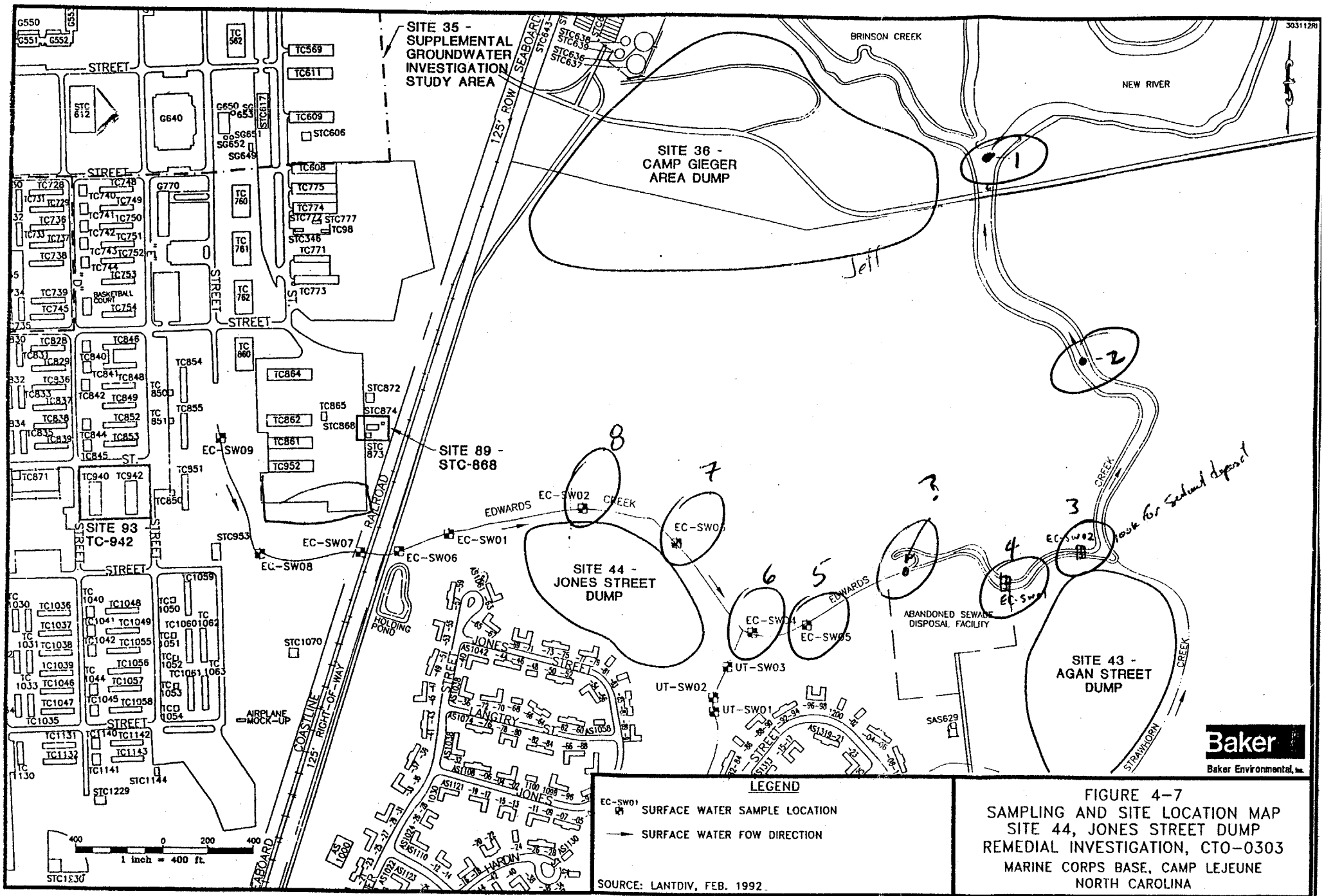

FIGURE 4-7
SAMPLING AND SITE LOCATION MAP
SITE 44, JONES STREET DUMP
REMEDIAL INVESTIGATION, CTO-0303
MARINE CORPS BASE, CAMP LEJEUNE
NORTH CAROLINA

Baker Environmental, Inc.

Sample Number	CLJ-34-SS-005	CLJ-34-SS-006	CLJ-34-SS-007	CLJ-34-SS-008	CLJ-34-SS-008DL	CLJ-34-SS-008D	CLJ-34-SS-008DRE
Date Sampled	12/17/99	12/17/99	12/17/99	12/17/99	12/17/99	12/17/99	12/17/99
Compound							
Acetone	180	20		830 E	1000 D		5400 JE
Carbon Disulfide	15			540 E	88 D		490 J
1,2-Dichloroethene (total)							
Xylenes (total)							
Vinyl Chloride							
Trichloroethene							
2-Butanone	96			500			2600 JE
Methylene Chloride		4 J					
1,1,2,2-Tetrachloroethane		4 J					
Toulene				50			42 J

Sample Number	CLJ-34-WS-006DL	CLJ-34-WS-007	CLJ-34-WS-007DL	CLJ-34-WS-008	CLJ-34-WS-008D	CLJ-34-WS-008DDL
Date Sampled	12/17/99	12/17/99	12/17/99	12/17/99	12/17/99	12/17/99
Compound						
Acetone						
Carbon Disulfide			2 JD		70 E	74 D
1,2-Dichloroethene (total)	68 D	71 E	73 D			
Xylenes (total)						
Vinyl Chloride	3 D	4	4 D			
Trichloroethene	28 D	31	29 D			
2-Butanone						
Methylene Chloride	1 JBD		1 JBD			1 JBD
1,1,2,2-Tetrachloroethane	39 D	40 E	40			
Toulene						
1,1,2-Trichloroethane	1 JD	1	1 JD			
1,1-Dichloroethene		0.5 J				

RE in samle ID denotes RERUN
DL in sample ID denotes sample that has been diluted by the laboratory
E= Estimated
CLJ-34-SS-008 had an insturment problem
CLJ-34-WS-008D had sediment & biological material. May bias results high.

Sample Number	CLJ-34-SS-001	CLJ-34-SS-001DL	CLJ-34-SS-002	CLJ-34-SS-002DL	CLJ-34-SS-003	CLJ-34-SS-003DL	CLJ-34-SS-004	CLJ-34-SS-004DL
Date Sampled	12/17/99	12/17/99	12/17/99	12/17/99	12/17/99	12/17/99	12/17/99	12/17/99
Compound								
Acetone	210	1100 D	200	1300 D	150		120	180 D
Carbon Disulfide	5600 E	3300 D	7800 E	4400 D	250 E	880 D	660 E	780 D
1,2-Dichloroethene (total)							19	
Xylenes (total)	23 J							
Vinyl Chloride								
Trichloroethene								13 J
2-Butanone								
Methylene Chloride								
1,1,2,2-Tetrachloroethane								
Toulene								

Sample Number	CLJ-34-WS-001	CLJ-34-WS-001DL	CLJ-34-WS-002	CLJ-34-WS-002DL	CLJ-34-WS-003	CLJ-34-WS-004	CLJ-34-WS-005	CLJ-34-WS-006
Date Sampled	12/17/99	12/17/99	12/17/99	12/17/99	12/17/99	12/17/99	12/17/99	12/17/99
Compound								
Acetone		1200 BD		330 BD		2		
Carbon Disulfide	360 E	1100 D	150 E	800 D	14	5	15	0.3 J
1,2-Dichloroethene (total)					29	40		73 E
Xylenes (total)								
Vinyl Chloride 525					0.8 J	1		4
Trichloroethene					13	17		31
2-Butanone								
Methylene Chloride								
1,1,2,2-Tetrachloroethane 10.8					19	23		40 E
Toulene								
1,1,2-Trichloroethane					0.6 J	0.7 J		1
1,1-Dichloroethene								0.6 J

RE in samle ID denotes RERUN
DL in sample ID denotes sample that has been diluted by the laboratory
E= Estimated
CLJ-34-SS-008 had an insturment problem
CLJ-34-WS-008D had sediment & biological material. May bias results high.