



Cal/EPA

Department of  
Toxic Substances  
Control

245 West Broadway,  
Suite 425  
Long Beach, CA  
90802-4444

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December 16, 1996 14 56

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MCAS EL TORO  
SSIC # 5090.3



Pete Wilson  
Governor

James M. Strock  
Secretary for  
Environmental  
Protection

Mr. Joseph Joyce  
BRAC Environmental Coordinator  
U.S. Marine Corps Air Station - El Toro  
P. O. Box 95001  
Santa Ana, California 92709-5001

**COMMENTS ON AIR-SPARGING PILOT TEST, SITE 24, OPERABLE UNIT 2A, MARINE  
CORPS AIR STATION (MCAS) EL TORO**

Dear Mr. Joyce:

The California Environmental Protection Agency (Cal/EPA) has completed the review of the above subject document dated November 12, 1996, prepared by Bechtel National Inc. The report presents the results of the air-sparging test conducted as part of Phase II Remedial Investigation/Feasibility Study at Site 24, the volatile organic compounds source area at MCAS El Toro.

We concur with the conclusions and recommendations of the report. Enclosed are the Regional Water Quality Control Board comments dated November 19, 1996. If you have any questions, please call me at (310) 590-4891.

Sincerely,

Tayseer Mahmoud  
Remedial Project Manager  
Base Closure Unit  
Office of Military Facilities  
Southern California Operations

Enclosure

cc: See Next Page



*Mr. Joseph Joyce*  
*December 6, 1996*  
*Page 2*

cc: Mr. Glenn Kistner, SFD-8-2  
Remedial Project Manager  
U. S. Environmental Protection Agency  
Region IX  
Federal Facilities Cleanup Office  
75 Hawthorne Street  
San Francisco, California 94105-3901

Mr. Lawrence Vitale  
Remedial Project Manager  
California Regional Water Quality Control Board  
Santa Ana Region  
3737 Main Street, Suite 500  
Riverside, California 92501-3339

Mr. Pat Brooks  
Bechtel National, Inc.  
401 West A Street, Suite 1000  
San Diego, California 92101-7905

Mr. Andy Piszkin  
Remedial Project Manager  
Naval Facilities Engineering Command  
Southwest Division, Code 1831.AP  
1220 Pacific Highway  
San Diego, California 92132-5187

# Memorandum

**To:** Mr. Tayseer Mahmoud  
Department of Toxic Substances Control  
245 West Broadway, Suite 350  
Long Beach, CA 90802-4444

**Date:** November 19, 1996

**From:** CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD - SANTA ANA REGION  
3737 MAIN STREET, SUITE 500, RIVERSIDE, CALIFORNIA 92501-3339  
Telephone: CALNET 632-4130 Public (909) 782-4130

**Subject:** AIR SPARGING PILOT TEST REPORT, SITE 24, MCAS EL TORO

We have reviewed the subject document dated November 11, 1996 and received by us on November 12, 1996. We concur with the report conclusion that air sparging would be problematic due to aquifer lithologic heterogeneities. Given the site characteristics, we suggest that a more practical remedial approach would be a dual phase system including groundwater extraction, treatment and reinjection combined with a soil vapor extraction system to treat the vadose zone.

If you have any questions, please call me at 909-782-4998.

  
Lawrence Vitale  
DoD Section