



Navy CLEAN II Program  
BNI Job No. 22214  
Contract No. N68711-92-D-4670  
File Code: 0218

**IN REPLY REFERENCE: CTO-177/0197-1**

September 26, 2001

Contracting Officer  
Naval Facilities Engineering Command  
Southwest Division  
Mr. Richard Selby, Code 02R1  
1220 Pacific Coast Highway  
San Diego, CA 92132-5190

Subject: **UPDATED VERSION** - Fourth Round - Analytical Results from IR Site 3, Groundwater Sampling Results from July 2001 at Groundwater Monitoring Well MW-3-05 Former Long Beach Naval Station, Long Beach, California

Dear Mr. Selby:

Groundwater samples from Installation Restoration (IR) Site 3 at the former Naval Station at Long Beach, California were collected and submitted to a laboratory for analyses during July 2001. The sampling represents the fourth round of sampling at IR Site 3 conducted as part of CTO-177. The samples were collected from groundwater monitoring well MW-3-05 and were analyzed for benzene and vinyl chloride.

The work was performed following the Final Work Plan for Groundwater Monitoring at Installation Restoration Program Sites 9, 12, and 13 at former Long Beach Naval Shipyard, Long beach, California prepared by Bechtel National, Incorporated (March 1999). A technical memorandum was issued by Bechtel National, Incorporated on May 22, 2000 describing the use of this work plan to perform the sampling required at IR Site 3.

Samples were collected from the well after three well volumes were purged from the well (approximately 30 gallons) and temperature, pH, conductivity, and turbidity readings stabilized. The samples were analyzed using United States Environmental Protection Agency Method 8260B. Quality control samples included: a field duplicate, trip blank, rinsate sample, and a field blank. Quality control samples were non detect for benzene and vinyl chloride. The samples were collected on July 30, 2001.

Results were verified, validated, and entered into the Bechtel Environmental Integrated Data Management System.

09/26/01, 8:46 AM, sp l:\cleanii\cto\long beach\cto177\irsite3\ir3jul01.doc

Mr. Richard Selby, Code 02R1

September 26, 2001

Page 2

Results from previous sampling by CDM Federal were reported in a draft Annual (Fourth Quarterly) Report for Groundwater Monitoring at IR Sites 1 and 2 (Area of Potential Concern 4) and 3 (Area of Potential Concern 2) at the former Naval Station at Long Beach California (July 7, 2000). Results from MW-3-05 for benzene ranged from 10 to 40  $\mu\text{g/L}$ . Results from MW-3-05 for vinyl chloride ranged from 15 to 80  $\mu\text{g/L}$ . The sampling was performed between July 1994 and April 1999. Results from the previous sampling round during April 2001 were 14/14  $\mu\text{g/L}$  for benzene and 32/32 for vinyl chloride. Two results are given because a regular sample was analyzed along with a field duplicate submitted to the laboratory for quality assurance. Results from the subject round of sampling for July 2001 were 16/17  $\mu\text{g/L}$  for benzene and 49/51 for vinyl chloride. These results are consistent with previously described analytical results.

Results from sampling conducted between July 1994 and July 2001 are shown on Figure 1 along with California Ocean Plan objectives for 1997. Benzene concentrations are consistently above the California Ocean Plan objective for benzene. Vinyl chloride concentrations continue to vary from slightly below to slightly above the California Ocean Plan objective for vinyl chloride.

Additional sampling is scheduled during the end of October 2001.

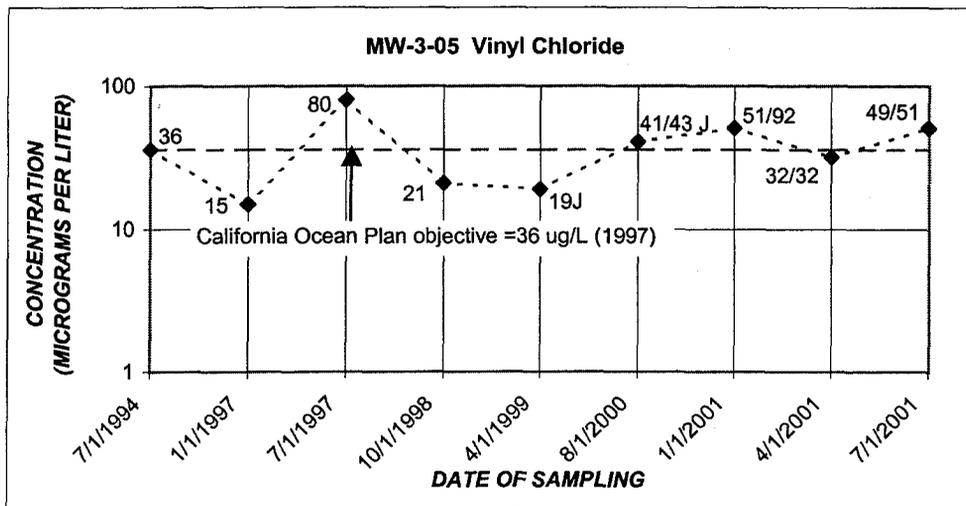
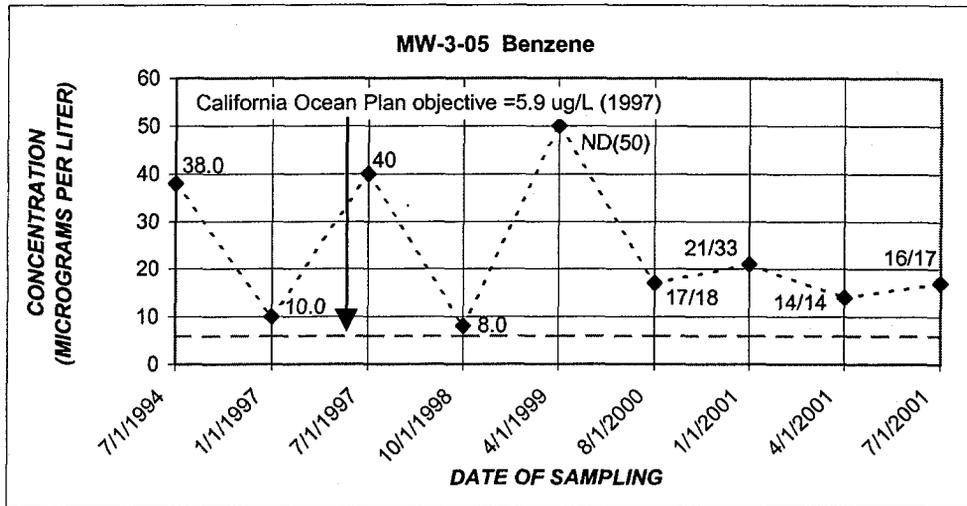
If you have any questions, please contact Scott Donovan, CTOL, at (619) 744-3019 or myself at (619) 744-3004.

Sincerely,



Thurman L. Heironimus, R.G.  
Project Manager

TLH/lsh



J = estimated concentration

ND = not detected (detection limit)

Data Reference: CDM Federal Programs Corp. July 07, 1998. Draft Annual (Fourth Quarterly) Report, Groundwater Monitoring IR Sites 1 and 2 (AOPC 4) and 3 (AOPC 2) Former Naval Station Long Beach, California (Figure 2-4)

**Benzene and Vinyl Chloride Concentrations  
in MW-3-05 (July 1994 to July 2001)  
IRP Site 3  
Figure 1**

**Former Naval Station, Long Beach, California**



**Bechtel National, Inc.**  
CLEAN II Program

Date: 3/15/01  
File: No.: see footer  
Job: No.: 22214-177  
Rev. No.: A



**DEPARTMENT OF THE NAVY**  
SOUTHWEST DIVISION  
NAVAL FACILITIES ENGINEERING COMMAND  
1220 PACIFIC HIGHWAY  
SAN DIEGO, CA 92132-5190

5090  
Ser 06CM.ED/1027  
September 26, 2001

Ms. Ana Townsend  
California Regional Water Quality Control Board  
Los Angeles Region  
320 W. 4<sup>th</sup> Street, Suite 200  
Los Angeles, CA 90013

Dear Ms. Townsend:

The enclosed report is provided for your information and use. If you have any questions, please call Mr. Ed Dienzo at (619) 532-0920.

Sincerely,

A handwritten signature in black ink that reads "Thomas L. Macchiarella".

THOMAS L. MACCHIARELLA  
BRAC Environmental Coordinator  
By direction of the Commander

Encl: (1) Fourth Round -Analytical Results from IR 3, Groundwater Sampling Results from July 2001 at Groundwater Monitoring Well MW-3-05 Former Long Beach Naval Station, Long Beach, California

Copy to:  
Ms. Sue Hakim  
Department of Toxic Substances Control  
5796 Corporate Way  
Cypress, CA 90630

Mr. Martin Hausladen  
U.S. Environmental Protection Agency  
Region 9  
75 Hawthorne Street  
San Francisco, CA 94105

N68311.000318  
NAVSTA LONG BEACH  
SSIC # 5090.3

FOURTH ROUND – ANALYTICAL RESULTS,  
GROUNDWATER SAMPLING RESULTS FROM  
JULY 2001 AT GROUNDWATER MONITORING  
WELL MW-3-05

DATED 20 SEPTEMBER 2001

IS ENTERED IN THE DATABASE AND FILED AT  
ADMINISTRATIVE RECORD NO. N68311.000329



BECHTEL NATIONAL INC.

### CLEAN II TRANSMITTAL/DELIVERABLE RECEIPT

Contract No. N-68711-92-D-4670

Document Control No. CTO-0177/0197-1

File Code: 0218

TO: Contracting Officer  
Naval Facilities Engineering Command  
Southwest Division  
Mr. Richard Selby, Code 02R1  
1220 Pacific Highway  
San Diego, CA 92132-5190

DATE: September 26, 2001  
CTO #: 0177  
LOCATION: Former Long Beach Naval Station

FROM: *Thurman L. Heironimus*  
Thurman L. Heironimus, Project Manager

DESCRIPTION: UPDATED VERSION - Fourth Round - Analytical Results from IR Site 3, Groundwater  
Sampling Results from July 2001 at Groundwater Monitoring Well MW-3-05 -  
DTD September 2001

TYPE:  Contract Deliverable  CTO Deliverable  Change Notice/Project Note  
 Other

VERSION: N/A REVISION #: 1 (Updated Version)  
(e.g., Draft, Draft Final, Final, etc.)

ADMIN RECORD: Yes  No  Category  Confidential   
(PM to Identify)

SCHEDULED DELIVERY DATE: 9/26/01 ACTUAL DELIVERY DATE: 9/26/01

NUMBER OF COPIES SUBMITTED: OE/7C/6E

**COPIES TO (Include Name, Navy Mail Code, and No. of Copies):**

SWDIV:	BECHTEL:	OTHER (Distribution done by Bechtel):
<u>M. Orpilla, 06CM.MO (OE)</u>	<u>T. Heironimus (1C/1E)</u>	_____
<u>Basic Contract File, 02R1 (1C)</u>	<u>S. Donovan (1C/1E)</u>	_____
<u>E. Dienzo, 06CA.ED (3C/3E)</u>	<u>PDCC (1C/1E)</u>	_____
<u>C. Leadon, 5NEN.CL (1C/1E)</u>	_____	_____
<u>D. Silva, 05G.DS (2C/2E for AR)</u>	_____	_____

O = Original Transmittal Sheet  
C = Copy Transmittal Sheet  
E = Enclosure

Date/Time Received