



Navy CLEAN II Program
BNI Job No. 22214
Contract No. N68711-92-D-4670
File Code: 0218.1
IN REPLY REFERENCE: CTO-177/0143-1

December 5, 2000

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

Subject: **Revised** - Analytical Results from IR Site 3, Groundwater Sampling Results from August 2000 at Groundwater Monitoring Well MW-3-05 at the Former Long Beach Naval Station, Long Beach, California

Dear Mr. Selby:

At the request of the Remedial Project Manager Edmund Dienzo we are re-issuing the previous letter report dated November 27, 2000 to include Figure 1 and text providing a brief description of analytical results presented on the figure.

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 August 2000. 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 August 22, 2000.

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Mr. Richard Selby, Code 02R1

December 5, 2000

Page 2

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

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 µg/L. Results from MW-3-05 for vinyl chloride ranged from 15 to 80 µg/L. The sampling was performed between July 1994 and April 1999. Results from August 2000 were 17/18 µg/L for benzene and 41/43 J (estimated concentration) for vinyl chloride. Two results are given because a regular sample was analyzed along with a field blank submitted to the laboratory for quality assurance. These results are consistent with previously described analytical results.

Results from sampling conducted between July 1994 and August 2000 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. The vinyl chloride concentration from August 2000 is slightly above the California Ocean Plan objective for vinyl chloride. Previously reported concentrations have been above, equal to, and below the California Ocean Plan objective for vinyl chloride.

Additional sampling is scheduled during December 2000, March 2001, and June 2001.

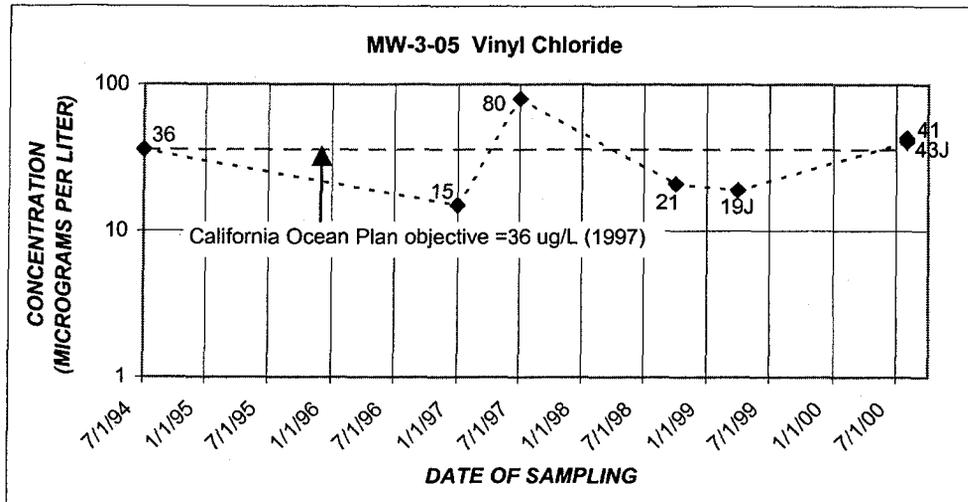
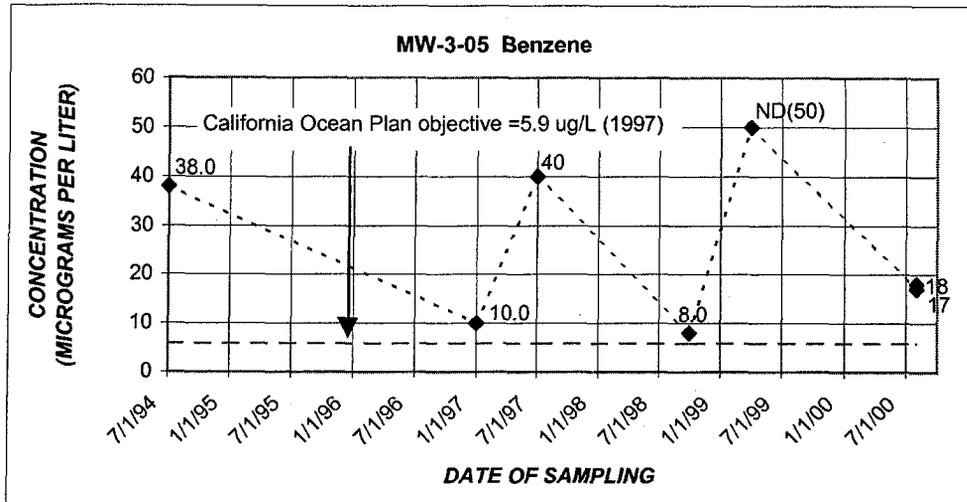
If you have any questions, please contact Scott Donovan, CTOL, at (619) 744-3019 or myself at (619) 744-3004.

Very Truly Yours,



Thurman L. Heironimus
Project Manager

TLH/sp



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 August 2000)
IRP Site 3
Figure 1**

Former Naval Station, Long Beach, California



Bechtel National, Inc.
CLEAN II Program

Date: 12/4/00
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BECHTEL NATIONAL INC.

CLEAN II TRANSMITTAL/DELIVERABLE RECEIPT

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

Document Control No. CTO-0177/0143-1

File Code: 0218.1

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

DATE: December 5, 2000
CTO #: 0177
LOCATION: Long Beach Naval Shipyard

FROM: [Signature]
Thurman L. Heironimus, Project Manager

DESCRIPTION: Revised - Analytical Results from IR Site 3, Groundwater Sampling Results from August 2000 at
Groundwater Monitoring Well MW-3-05 at the Former Long Beach Naval Station
DTD 12/5/2000

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Southwest Division
Mr. Richard Selby, Code 02R1
1220 Pacific Highway
San Diego, CA. 92132-5190

DATE: November 27, 2000
CTO #: 0177
LOCATION: Long Beach Naval Shipyard

FROM: Thurman L. Heironimus, Project Manager

DESCRIPTION: Analytical Results from IR Site 3, Groundwater Sampling Results from August 2000 at
Groundwater Monitoring Well MW-3-05 at the Former Long Beach Naval Station
DTD 11/27/00

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