



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION IX  
75 Hawthorne Street  
San Francisco, CA 94105

AR\_N00217\_003235  
HUNTERS POINT  
SSIC NO. 5090.3.A

FEB 09 1995

William Radzevich  
Engineering Field Activity, West  
900 Commodore Drive, Code 09AR1WR  
San Bruno, CA 94066-2402

SUBJECT: Errata for Final Field Sampling Plan, Hunters Point Annex, Parcel A, Building  
101 Parking Lot dated December 12, 1994

Dear Mr. Radzevich:

Enclosed please find errata to the Final Field Sampling Plan, Hunters Point Annex, Parcel A, Building 101 Parking Lot dated December 12, 1994. This errata will serve as the final modification of the Field Sampling Plan in preparation for the first round of sampling scheduled for February 14, 1995. If you have any questions, please contact me at (415) 744-2385.

Sincerely,

A handwritten signature in cursive script that reads "Alydda Mangelsdorf".

Alydda Mangelsdorf  
Remedial Project Manager

Attachment: Errata

cc: C Shabahari, DTSC  
R. Hiatt, RWQCB  
Scott Weber, PRC  
Mike Malone, HLA

FINAL  
FIELD SAMPLING PLAN  
PARCEL A, BUILDING 101 PARKING LOT

DATED 12 DECEMBER 1994

THIS DOCUMENT WAS NOT SUBMITTED TO THE  
RESTORATION RECORD FILE.

FOR ADDITIONAL INFORMATION, CONTACT:

DIANE C. SILVA, RECORDS MANAGER  
NAVAL FACILITIES ENGINEERING COMMAND, SOUTHWEST  
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Field Sampling Plan  
Hunters Point Annex  
Parcel A, Building 101 Parking Lot

**Errata**

In response to "Considerations" offered by PRC in a letter dated January 6, 1994, the following modifications to the Final Field Sampling Plan, Hunters Point Annex, Parcel A, Building 101 Parking Lot are hereby attached as errata.

1. The analytical method to be used for volatile organic compounds (VOC) will be changed from EPA 8260 to EPA CLP method for VOCs using a 25-ml purge.
2. The analytical method to be used for semi-volatile organic compounds (SVOC) will be changed from EPA 8270 to EPA CLP Routine Analytical Services method for SVOCs.
3. The analytical method to be used for pesticides/PCBs will be changed from EPA 8080 to EPA CLP Routine Analytical Services method for pesticides/PCBs.
4. The reporting limits for compounds have been modified and are included here as a corrigendum.
5. Sample equipment decontamination procedures will be changed to a double steam-cleaning procedure proposed by PRC and attached here as a corrigendum.
6. Typographical modifications suggested by PRC are attached here as errata.
7. It should be noted that the FSP still calls for sample preservation in the field. This requirement has not been modified.

Attachments: Sample Analysis, Methods of Analysis--Target Reporting Limits  
Table 1, Target Compound List--CRQLs for VOCs  
Memo from Mike Malone to Scott Weber dated Feb. 1, 1995--Decontamination  
Procedures  
Typographical Corrections

## 5.0 Sample Analyses

### 5.1 Methods of Analysis

The groundwater is to be analyzed for constituents that may have emanated from identified upgradient soil and groundwater sources. These potential sources are identified in Sections 2.3.1 -- 2.3.5. The following table lists the classes of compounds to be measured (by method) and recommended quantitation limits (sources: (1) Work Plan - Volume 3: Quality Assurance Project Plan, RI/FS, Hunters Point, May, 1988; (2) Draft Final, Parcel A Site Inspection Report, Appendix B, Oct. 15, 1993).

<u>Chemical Type</u>	<u>Analytical Method</u>	<u>Target Reporting Limit</u>
Volatiles	CLP	CRQLs <sup>1</sup>
Semi-volatiles	CLP	CRQLs
Metals	CLP <sup>2</sup>	CRDLs <sup>3</sup>
Pesticides/PCBs	CLP	CRQLs
TPH-motor oil	CA LUFT	0.5 mg/l
Chlorinated Herb.	EPA 8150	PQLs <sup>4</sup>

Notes: (1) contract required quantitation limit; (2) metals to be analyzed are: aluminum, antimony, arsenic, barium, beryllium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, mercury, nickel, potassium, selenium, silver, sodium, thallium, vanadium, and zinc; (3) contract required detection limit and; (4) practical quantitation limits.

The methods selected were chosen to be consistent with the methods employed by the Navy in the past at Hunters Point. The use of these methods by the U.S. EPA will allow the first objective of the split sampling investigation to be met, i.e. to ensure the accuracy of the Navy's laboratory analyses. The analytical results obtained by the U.S. EPA will be compared to the Navy's results for consistency. In addition, the chosen methods have detection limits that will best allow comparison to preliminary remediation goals (PRGs). The comparison of the groundwater sampling results to PRGs or other ARARs, to be identified, is a primary objective of the sampling effort by the Navy. An addendum to the approved December 8, 1994 Navy sampling plan states that the laboratory SOP must report values below the CRQLs or PQLs but above the MDLs.

The Navy and the U.S. EPA recognize that the quantitation limits (e.g. CRQLs, CRDLs, and PQLs) will not be as low as the PRGs in all cases. The U.S. EPA toxicologist will make any screening risk assessments that may be necessary in accordance with this limitation.

TABLE 1  
TARGET COMPOUND LIST

<u>Analyte</u>	<u>CAS Number</u>	<u>Contract Required Quantitation Limit (CROL) µg/L</u>
Chloromethane	74-87-3	1
Bromomethane	74-83-9	1
Vinyl chloride	75-01-4	0.5
Chloroethane	75-00-3	1
Methylene chloride	75-09-2	1
Acetone	67-64-1	10
Carbon disulfide	75-15-0	1
1,1-Dichloroethene	75-35-4	1
1,1-Dichloroethane	75-34-3	1
1,2-Dichloroethene (total)	540-59-0	1
Chloroform	67-66-3	1
1,2-Dichloroethane	107-06-2	0.5
2-Butanone	78-87-5	10
1,1,1-Trichloroethane	71-55-6	1
Carbon tetrachloride	56-23-5	0.5
Bromodichloromethane	75-27-4	1
1,2-Dichloropropane	78-87-5	1
cis-1,3-Dichloropropene	10061-01-5	0.5
Trichloroethene	79-01-6	1
Dibromochloromethane	124-48-1	1
1,1,2-Trichloroethane	79-00-5	1
Benzene	71-43-2	1
trans-1,3-Dichloropropene	10061-02-6	0.5
Bromoform	75-25-2	1
4-Methyl-2-pentanone	108-10-1	10
2-Hexanone	591-78-6	10
Tetrachloroethene	127-18-4	1
1,1,2,2-Tetrachloroethane	79-34-5	1
Toluene	108-88-3	1
Chlorobenzene	108-90-7	1
Ethylbenzene	100-41-4	1
Styrene	100-42-5	1
Xylenes (total)	1330-20-7	1

February 1, 1995

To: Scott Weber (PRC)

From: Mike Malone (HLA) *AMA*

Subject: Decontamination Procedures  
Parking Lot Spring, Building 101  
Parcel A, HPA

HLA Project No: 11400 0915

This memo is to provide to you with our understanding of decontamination procedures to be implemented during the parking lot spring sampling. The procedure originally proposed by EPA in their *Field Sampling Plan, Parcel A Building 101 Parking Lot* dated December 1, 1994, is provided as Attachment A for comparison. The decontamination procedures proposed in the sampling plan will be replaced by performing the following:

- 1) Steam cleaning
- 2) Liquinox wash
- 3) Tap water rinse
- 4) Two de-ionized water rinses
- 5) Repeat the above

Equipment which will require decontamination includes the following:

Pump (bladders and tubing will be replaced prior to each sample event)  
Transducer and barometer (these will be dedicated to the well)  
Steel tape (for manual water level measurements)

Additionally we are assessing the availability of single-strand stainless steel wire to suspend the pump during sampling. Stainless wire may prove to be more readily decontaminated than braided plastic rope.

In-line air filters will be installed between the compressed nitrogen supply and the bladder pump.

The following comments pertain to Sections 2.0, 4.0, and 6.0 of the Parcel A field sampling plan as follows:

### **Section 2.3 Potential Sources of Groundwater Contamination**

- 1) Need to add a footnote regarding the MCPP and MCPA confirmation analysis to tables 8.2.1 and 8.2.2.

#### **Section 2.3.3 Officer's Club --Parking Lot Median (PA-19)**

- 1) The EPA PRG for arsenic is 0.32 ppm instead of 1.32 ppm.

#### **Section 2.3.5 Motor Oil at Monitoring Wells and Open Borings**

- 1) Add TPH as motor oil to the list of analytes. At the end of the first paragraph add "except TPH as motor oil."
- 2) In the second paragraph add the sentence "Boring PA50B016 was converted to groundwater monitoring well (IR59MW01F)." In the last sentence of the second paragraph change the word boring to well.
- 3) The third paragraph should be replaced with "This boring was drilled to sample the groundwater of the seasonal spring in the parking lot for Building 101. Three samples of groundwater were collected at this location, the first was from a open excavation, the second from the parking lot fill bedrock interface, and the third from approximately eight feet below ground surface. The first and third samples were considered non detect for TPH as motor oil after validation of the chemical data. Only the second sample had a detection of TPH as motor oil."

### **Section 4.3 Frequency**

- 1) In the second paragraph, first sentence "and followed" should be deleted.
- 2) In the second paragraph, second sentence "at least" should be added after "as that which..."

### **Section 4.4 Data Interpretation**

- 1) In the fourth paragraph, the last sentence and the bulleted questions should be moved to the cover letter.