



*Duplicate*

July 18, 1995

Ms. LeArta McNeal  
Tracy Federal Bank  
2151 Salvio Street  
Concord, CA 94520

**Subject: June 1995 Groundwater Monitoring at 16505 Worthley Drive, San Lorenzo, California, Alameda County Site I.D. 5009 (RECON Project No. S40180)**

Dear Ms. McNeal:

This report has been prepared by Recon Environmental Corp. (RECON) to summarize the results of the third quarterly groundwater sampling event performed during June 1995 by RECON at 16505 Worthley Drive, San Lorenzo, California (site; Figure 1). RECON, in accordance with the agreement for services with Tracy Federal Bank, performed the following work:

- Measured the water elevations in each well before sampling.
- Monitored the accessible wells except MW-7. Monitoring well MW-7 is an upgradient reference well over 100 feet east of the nearest previous underground fuel storage tank location.

This report presents discussions of data collected and technical procedures performed at the site by RECON. Included in this report are the following:

- A summary of the third quarterly groundwater sampling event.
- Laboratory reports and a cumulative tabulation of analytical data for the wells monitored.
- Groundwater level data for the wells monitored.
- Monitoring well location map. The location/elevation survey is not included here but was provided in the second quarterly report.

## BACKGROUND

RECON sampled the wells in December 1994, March 1995, and June 1995. Wells MW-1 and MW-2 are located adjacent to two historical, removed, underground gasoline tanks. Wells MW-4, MW-5, and MW-6 are located adjacent to two historical

EMV  
1995 JUL 21 10 07 AM  
ST DTC 14 07 21 07

removed, underground diesel tanks. Well MW-3 is located in the western portion of the site between the former underground fuel tanks. Well MW-7 is an upgradient reference well, located in the eastern part of the site, away from the historic, removed, underground fuel tanks. Well MW-7 was located by RECON in March 1995, and has not been sampled in December 1994, March 1995, or June 1995, because it is an upgradient reference well.

#### **QUARTERLY GROUNDWATER SAMPLING**

Quarterly groundwater sampling for the third consecutive quarter was conducted on June 16, 1995, by personnel of RECON. Groundwater samples were analyzed by North State Environmental of South San Francisco, California, a State-certified hazardous waste laboratory. This monitoring event included the collection and analysis of groundwater samples from six on-site monitoring wells, including wells MW-1, MW-2, MW-3, MW-4, MW-5, and MW-6. The locations of the monitoring wells from which samples were collected are presented in Figure 2.

Sampling of MW-1 was not possible on June 16 because the well was covered with wooden pallets. The pallets were removed by the building tenant, Santini Foods, and well MW-1 was sampled on July 17, 1995. Well MW-1 was observed to have a recently damaged cover but the well cap, lock, and visible casing were intact.

Groundwater levels in each of the monitoring wells (Table 1) were measured to the nearest 0.01 foot. Preparation for groundwater sample collection included purging approximately three well-casing volumes of groundwater from each monitoring well immediately prior to sample collection. Monitoring well purging was accomplished by hand bailing. During the purging procedure measurements of temperature, electrical conductivity, and pH of the purge water were recorded (Attachment A). Once the temperature, specific conductance, and pH were considered to have stabilized and three well casing volumes of groundwater removed, the groundwater level within the well was allowed to recover to approximately 80% of the pre-purge level and a ground-water sample was collected from the monitoring well using a disposable Teflon® bailer.

Groundwater samples were transferred from the bailer into laboratory-supplied containers, labeled for identification purposes, and stored on ice in an insulated chest pending delivery to the laboratory for analysis. Samples were collected, retained, and transported to the laboratory using chain-of-custody procedures. Groundwater samples, collected at the site on June 16 and July 17, 1995, were analyzed for total petroleum hydrocarbons as diesel (TPHd) and gasoline (TPHg) in general accordance with U.S. Environmental Protection Agency (EPA) Method No. 8015 modified; and benzene, toluene, xylene, and ethylbenzene (BTXE) in general accordance with EPA Method No. 8020. Laboratory results are presented in Table 1. The chain-of-custody forms and laboratory reports are presented in Attachment B.

## SUMMARY OF HYDROGEOLOGIC AND GROUNDWATER QUALITY DATA

Water levels were measured on December 1, 1994, March 24, 1995, and June 16, 1995, by personnel of RECON. The water level data are presented in Table 1. Groundwater elevations were assessed based upon the surveyed well top-of-casing elevations. Depth to water was measured to be approximately 6 to 7 feet below grade in June 1995. The ground-water gradient is interpreted to slope approximately 0.003 foot/foot toward the northeast based upon water elevations in wells MW-2, MW-3, and MW-4/MW-5. Water levels declined approximately 1 to 2 feet from the March 1995 monitoring event to the June 1995 monitoring event.

TPHd, TPHg and BTXE were not reported in the groundwater samples collected on June 16 and July 17, 1995, in concentrations exceeding the laboratory analytical reporting limits (Table 1).

## RECOMMENDATION

December 1994, March 1995, and June 1995 quarterly reports should be forwarded from your office to the following addressee:

Ms. Amy Leech  
Alameda County Department of Environmental Health  
1131 Harbor Bay Parkway, 2nd Floor  
Alameda, CA 94502

If you have any questions regarding the material presented in this report, please feel free to contact either of us at your convenience at (415) 742-9900.

Thank you for this opportunity to serve Tracy Federal Bank.

Sincerely,  
RECON ENVIRONMENTAL CORP.



Marc Papineau  
Project Manager



William McClenney, R.G. #4430  
Branch Manager

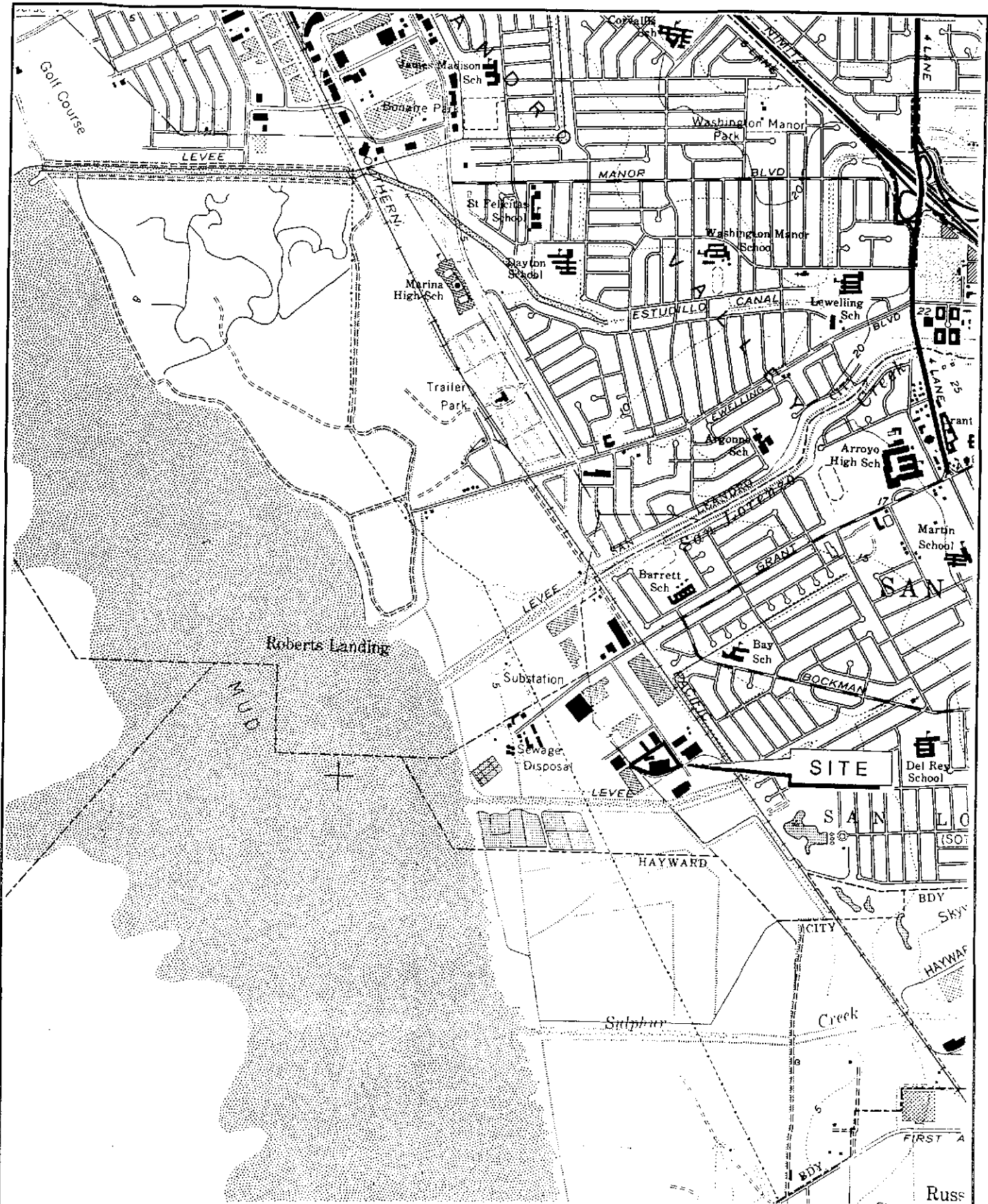
Attachments: A, B

**TABLE 1**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA (1)**  
**16505 WORTHLEY DRIVE, SAN LORENZO, CALIFORNIA**


Monitoring Well No.	Depth to Water (2)	Ground-Water Elevation (3)	TPHd (4)	TPHg (5)	Benzene	Toluene	Ethyl-benzene	Xylenes
MW-1								
12/01/94	6.19	3.15	<50	<50	<0.5 (6)	<0.5	<0.5	<0.5
3/24/95	4.25	5.09	<50	<50	<0.5	<0.5	<0.5	<1.0
7/17/95	6.28	3.06	N/A	<50	<0.5	<0.5	<0.5	<1.0
MW-2								
12/01/94	N/A (7)	N/A (7)	N/A	N/A	N/A	N/A	N/A	N/A
3/24/95	4.30	5.19	<50	<50	<0.5	<0.5	<0.5	<1.0
6/16/95	6.10	3.39	<50	<50	<0.5	<0.5	<0.5	<1.0
MW-3								
12/01/94	6.67	3.21	<50	<50	<0.5	<0.5	<0.5	<0.5
3/24/95	4.55	5.33	<50	<50	<0.5	<0.5	<0.5	<1.0
6/16/95	6.31	3.57	<50	<50	<0.5	<0.5	<0.5	<1.0
MW-4								
12/01/94	7.20	2.82	190	<50	<0.5	<0.5	<0.5	<0.5
3/24/95	5.30	4.72	<50	<50	<0.5	<0.5	<0.5	<1.0
6/16/95	7.00	3.02	<50	<50	<0.5	<0.5	<0.5	<1.0
MW-5								
12/01/94	7.15	2.95	<50	<50	<0.5	<0.5	<0.5	<0.5
3/24/95	5.15	4.95	<50	<50	<0.5	<0.5	<0.5	<1.0
6/16/95	7.06	3.04	<50	<50	<0.5	<0.5	<0.5	<1.0
MW-6								
12/01/94	6.44	3.06	<50	<50	<0.5	<0.5	<0.5	<0.5
3/24/95	4.40	5.10	<50	<50	<0.5	<0.5	<0.5	<1.0
6/16/95	7.13	2.37	<50	<50	<0.5	<0.5	<0.5	<1.0

Notes:

1. Concentrations are reported in micrograms per liter ( $\mu\text{g/L}$ ).
2. Depths are reported in feet below the top of casing.
3. Elevations are reported in feet above National Geodetic Vertical Datum 1929.
4. TPHd = total petroleum hydrocarbons as diesel.
5. TPHg = total petroleum hydrocarbons as gasoline.
6. "<" = not reported in concentrations exceeding the indicated analytical method reporting limit.
7. N/A = not sampled or not analyzed for stated parameter.



**NOTES:**  
 1) All locations and dimensions are approximate.

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SITE LOCATION MAP  
 16505 WORTHLEY DRIVE  
 SAN LORENZO, CALIFORNIA

PROJECT NUMBER: S40180

FIGURE 1.

**EXPLANATION**

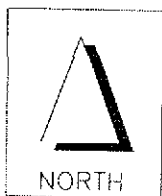
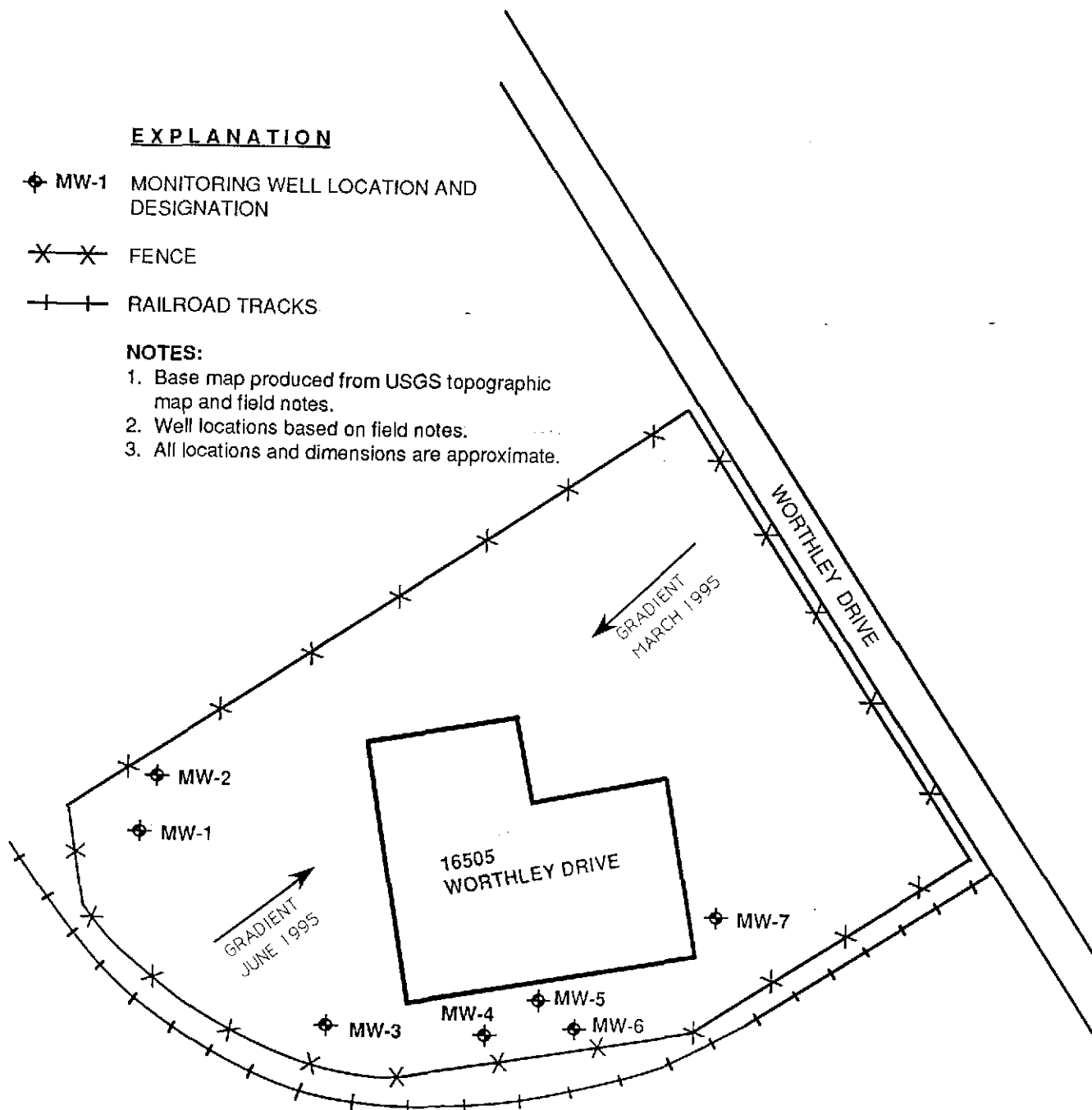
◆ MW-1 MONITORING WELL LOCATION AND DESIGNATION

✕-✕ FENCE

+ - + RAILROAD TRACKS

**NOTES:**

1. Base map produced from USGS topographic map and field notes.
2. Well locations based on field notes.
3. All locations and dimensions are approximate.



SCALE: 1" : 90'

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MONITORING WELL LOCATION MAP  
16505 WORTHLEY DRIVE  
SAN LORENZO, CALIFORNIA

PROJECT NUMBER: S40180

FIGURE 2.

16505 Worthley Drive  
S40180

**ATTACHMENT A**  
**GROUNDWATER SAMPLE COLLECTION LOGS**















16505 Worthley Drive  
S40180

**ATTACHMENT B**  
**LABORATORY ANALYTICAL REPORTS**  
**AND CHAIN OF CUSTODY FORMS**







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RECON ENVIRONMENTAL CORP.  
7000 Marina Boulevard, 4th Floor, Brisbane, California 94005  
Phone: 415-742-9900; Fax: 415-742-1033

CHAIN OF CUSTODY RECORD

Project Name			Project Number		No. of Containers	Type of Containers	Preservative	Type of Analysis												Condition of Samples		
Send Report Attention of:			Analytical Laboratory:					TPH	TPHC	BTX												
Sample Number	Date	Time	Matrix	Location																		
Worthley			540180																			
Marc Parnyean			North state																			
MW2-ZW	6-16-95	1350			3																	
MW3-ZW	6-16-95	1430			3																	
MW4-ZW	6-16-95	1520			3																	
MW5-ZW	6-16-95	1608			3																	
MW6-ZW	6-16-95	1615			3																	
Relinquished by: <i>K. Wark</i>			Date/Time: 6-18-95 0925	Received by: <i>[Signature]</i> USE	Date/Time: 6-18-95 0925	Remarks: FAX CC TO OFFICE ON RECEIPT - <i>[Signature]</i>																
Relinquished by:			Date/Time:	Received by:	Date/Time:																	
Relinquished by:			Date/Time:	Received by:	Date/Time:																	



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RECON ENVIRONMENTAL CORP.

7000 Marina Boulevard, 4th Floor, Brisbane, California 94005  
Phone: 415-742-9900; Fax: 415-742-1033

CHAIN OF CUSTODY RECORD

Project Name			Project Number		No. of Containers	Type of Containers	Preservative	Type of Analysis										Condition of Samples						
Send Report Attention of:			Analytical Laboratory:																					
Sample Number	Date	Time	Matrix	Location																				
WORTHLEY DRIVE SAN LORENZO, CA			S40180																					
M. PARINEAU			NORTH STATE																					
MW-1	7/17/95	10:50	Water	MW-1	2	40ml VOA	None	✓																
Relinquished by:			Date/Time:	Received by:	Date/Time:	Remarks:																		
<i>M. Parineau</i>			7/17/95 12:30P	<i>J. Kelly</i>	7/12/95 12:30P	NO HEADSPACE.																		
Relinquished by:			Date/Time:	Received by:	Date/Time:																			
Relinquished by:			Date/Time:	Received by:	Date/Time:																			