



RECEIVED

April 3, 1995

APR - 6 1995

SBA

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

Subject: March 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 groundwater sampling event performed during March 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:

- Surveyed the well locations/elevations by using a licensed land surveyor to second order accuracy to allow for the evaluation of groundwater elevations and gradient.
- Located and repaired well MW-2. Located well MW-7.
- Monitored the located, accessible wells during the first quarter of 1995.

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 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 and location/elevation survey.

BACKGROUND

RECON sampled the wells in December 1994 and March 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 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 apparently an upgradient 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, but was not sampled in December 1994 or March 1995.

QUARTERLY GROUNDWATER SAMPLING

Quarterly groundwater sampling was conducted on March 24, 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. Sampling of MW-2 was made possible by uncovering the well head which had been previously paved over, and replacing the well vault with a new traffic-rated vault set in a concrete apron. Well MW-7 was not sampled because it was not located until after the March 1995 monitoring event.

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 judged to have stabilized and five casing volumes of groundwater removed, the groundwater level within the well was allowed to recover to at least approximately 80% of the pre-purge level and a groundwater sample was collected from the monitoring well using a disposable polyethylene bailer. The locations of the monitoring wells from which samples were collected are presented in Figure 2.

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 March 24, 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, and March 24, 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 5 feet below grade in March 1995. The groundwater gradient is interpreted to slope approximately 0.004 feet/foot toward the west. Water levels rose approximately 2 feet from the December 1994 monitoring event to the March 1995 monitoring event.

TPHd, TPHg and BTXE were not reported in the groundwater samples collected on March 24, 1995, in concentrations exceeding the laboratory analytical reporting limits (Table 1).

RECOMMENDATION

Both December 1994 and March 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

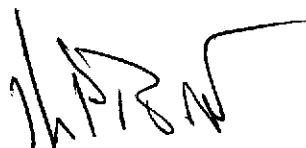
If you have any questions regarding the material presented in this report, please feel free to contact either of us at your convenience at (415) 742-9900.

Thank you for this opportunity to serve Tracy Federal Bank.

Sincerely,



Marc Papineau
Project Manager



Donald P. Bransford, R.G. 5621
Environmental Services Manager

Attachments: A, B, C

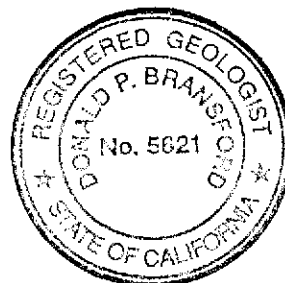
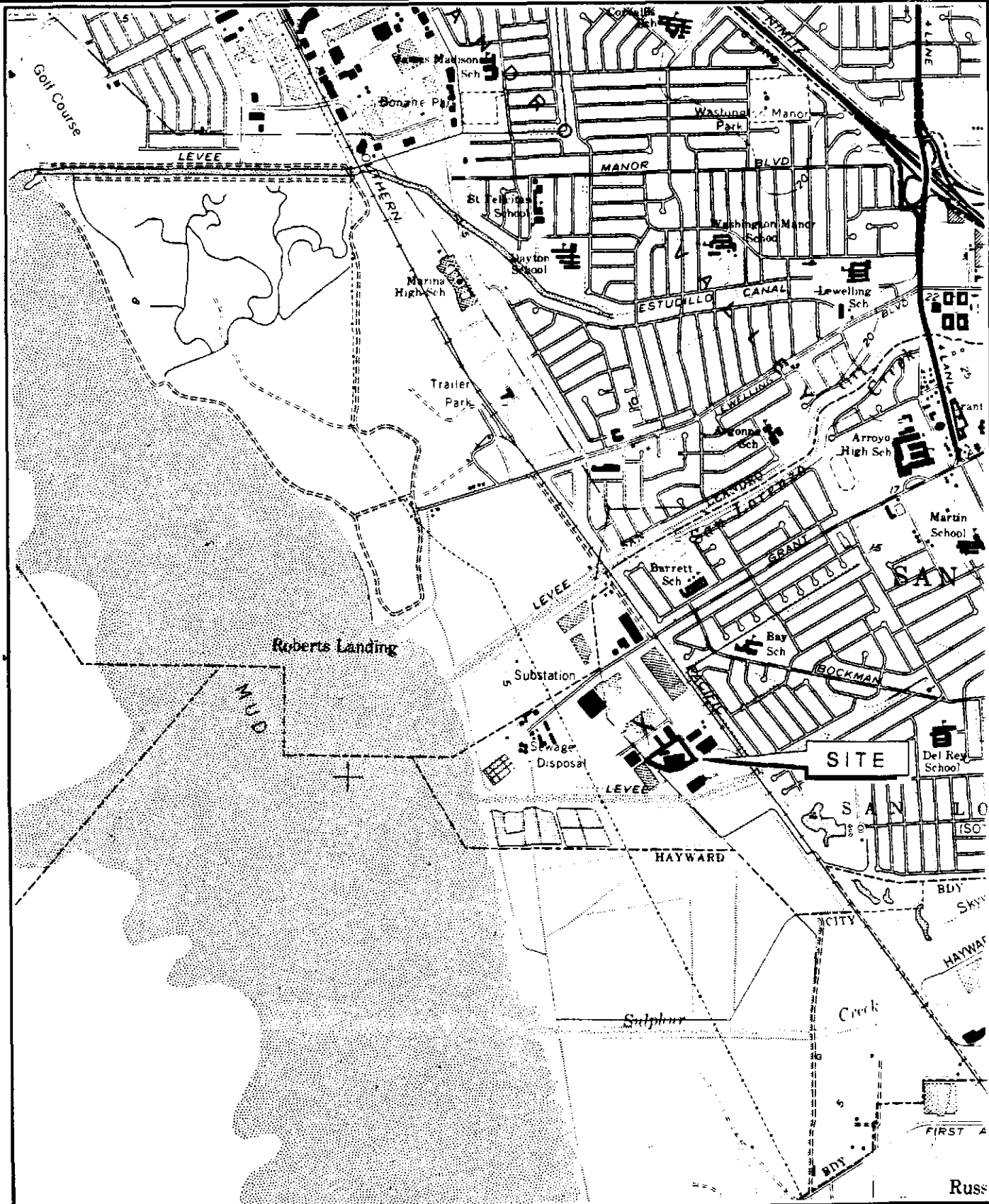


TABLE 1
SUMMARY OF GROUNDWATER ANALYTICAL DATA (1)
16505 WORTHLEY DRIVE, SAN LORENZO, CALIFORNIA

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 03/24/95	6.19 4.25	3.15 5.09	<50 <50	<50 <50	<0.5 (6) <0.5	<0.5	<0.5	<0.5 <1.0
MW-2 12/01/94 03/24/95	N/A (7) 4.30	N/A (7) 5.19	N/A <50	N/A <50	N/A <0.5	N/A <0.5	N/A <0.5	N/A <1.0
MW-3 12/01/94 03/24/95	6.67 4.55	3.21 5.33	<50 <50	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <1.0
MW-4 12/01/94 03/24/95	7.20 5.30	2.82 4.72	190 <50	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <1.0
MW-5 12/01/94 03/24/95	7.15 5.15	2.95 4.95	<50 <50	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <1.0
MW-6 12/01/94 03/24/95	6.44 4.40	3.06 5.10	<50 <50	<50 <50	<0.5 <0.5	<0.5 <0.5	<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



NOTES:
 1) All locations and dimensions are approximate.

RECON ENVIRONMENTAL CORP.

SITE LOCATION MAP
 16505 WORTHLEY DRIVE
 SAN LORENZO, CALIFORNIA

PROJECT NUMBER: S40180

FIGURE 1.

16505 Worthley Drive
S40180

ATTACHMENT A
GROUNDWATER SAMPLE COLLECTION LOGS

16505 Worthley Drive
S40180

ATTACHMENT B
LABORATORY ANALYTICAL REPORTS
AND CHAIN OF CUSTODY FORMS



North State Environmental

Chemical Waste Disposal & Remediation Consultants
LABORATORY OF ANALYSIS

JOB NO: 95-108
CLIENT: RECON
PROJECT NAME: 16505 WORTHLEY
DRIVE
PROJECT NO: S40180

DATE SAMPLED: 03-24-95
DATE EXTRACTED: 03-27-95
DATE ANALYZED: 03-27-95

BTXE AND GASOLINE RANGE ORGANICS BY EPA METHOD 8020/5030 AND 8015 M DIESEL RANGE HYDROCARBONS BY EPA METHOD 8015 M

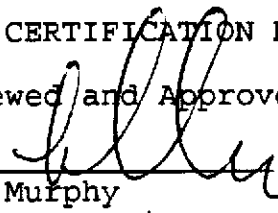
Sample No.	Client ID	Analyte	Result
95-108-05	MW-5 Water	Benzene	ND
		Toluene	ND
		Ethylbenzene	ND
		Xylenes	ND
		Gasoline	ND
		Diesel	ND
95-108-06	MW-6 Water	Benzene	ND
		Toluene	ND
		Ethylbenzene	ND
		Xylenes	ND
		Gasoline	ND
		Diesel	ND

Quality Control Quality Assurance Summary: Water

Analyte	Method	Reporting limit	Blank	MS/MSD Recovery	RPD
Benzene	8020	0.5 ug/L	ND	AVG 96%	3
Toluene	8020	0.5 ug/L	ND		
Ethylbenzene	8020	0.5 ug/L	ND		
Xylenes	8020	1 ug/L	ND		
Gasoline	8015/5030	50 ug/L	ND	AVG 99%	8
Diesel	8015 M	50 ug/L	ND	AVG 94%	2

ELAP CERTIFICATION NUMBER 1753

Reviewed and Approved by


John Murphy
Laboratory Director

16505 Worthley Drive
S40180

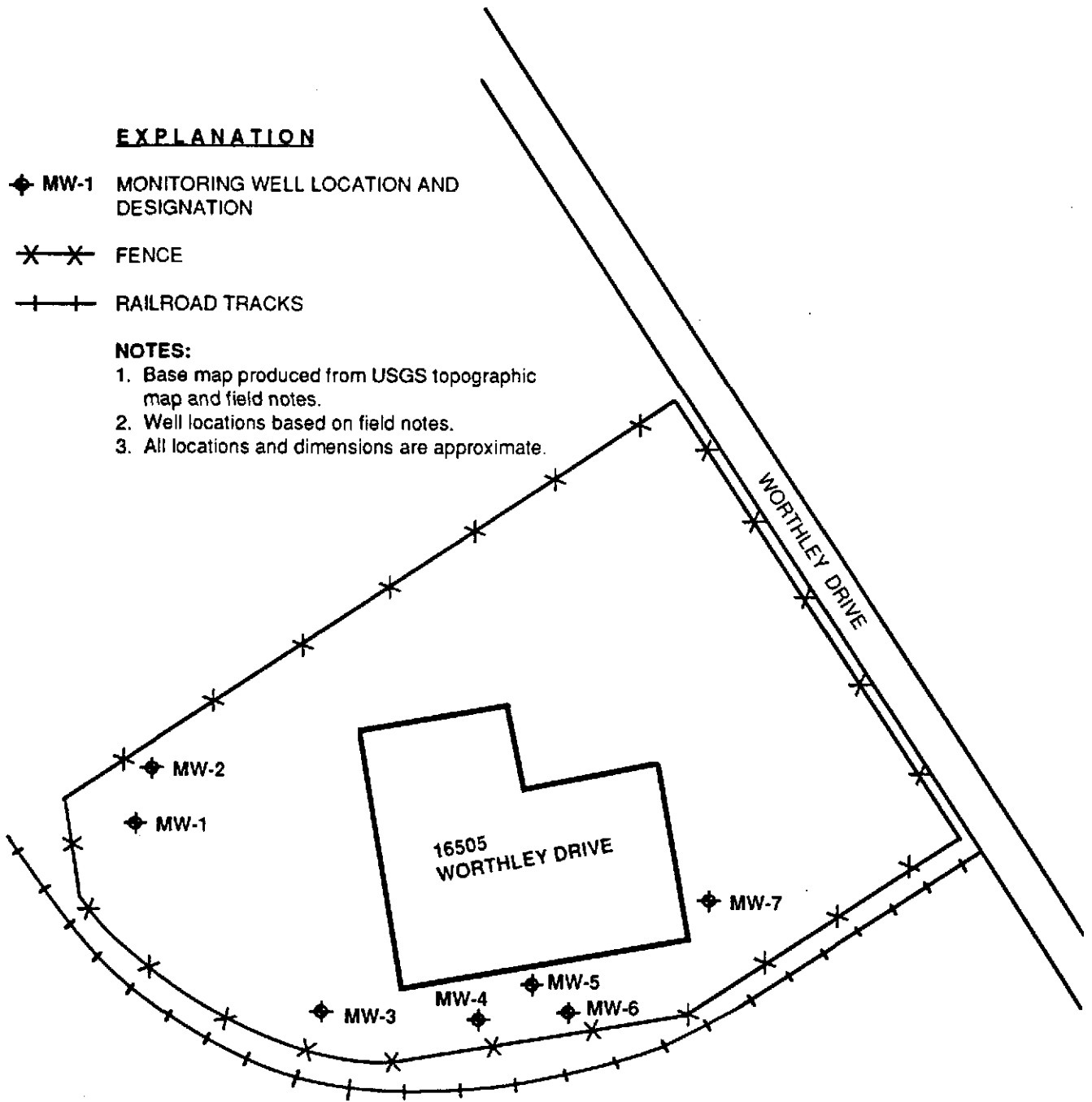
ATTACHMENT C
WELL ELEVATION/LOCATION SURVEY REPORT

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'

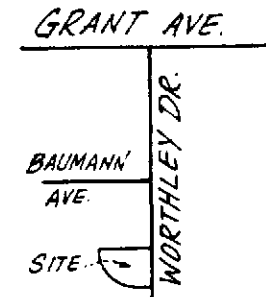
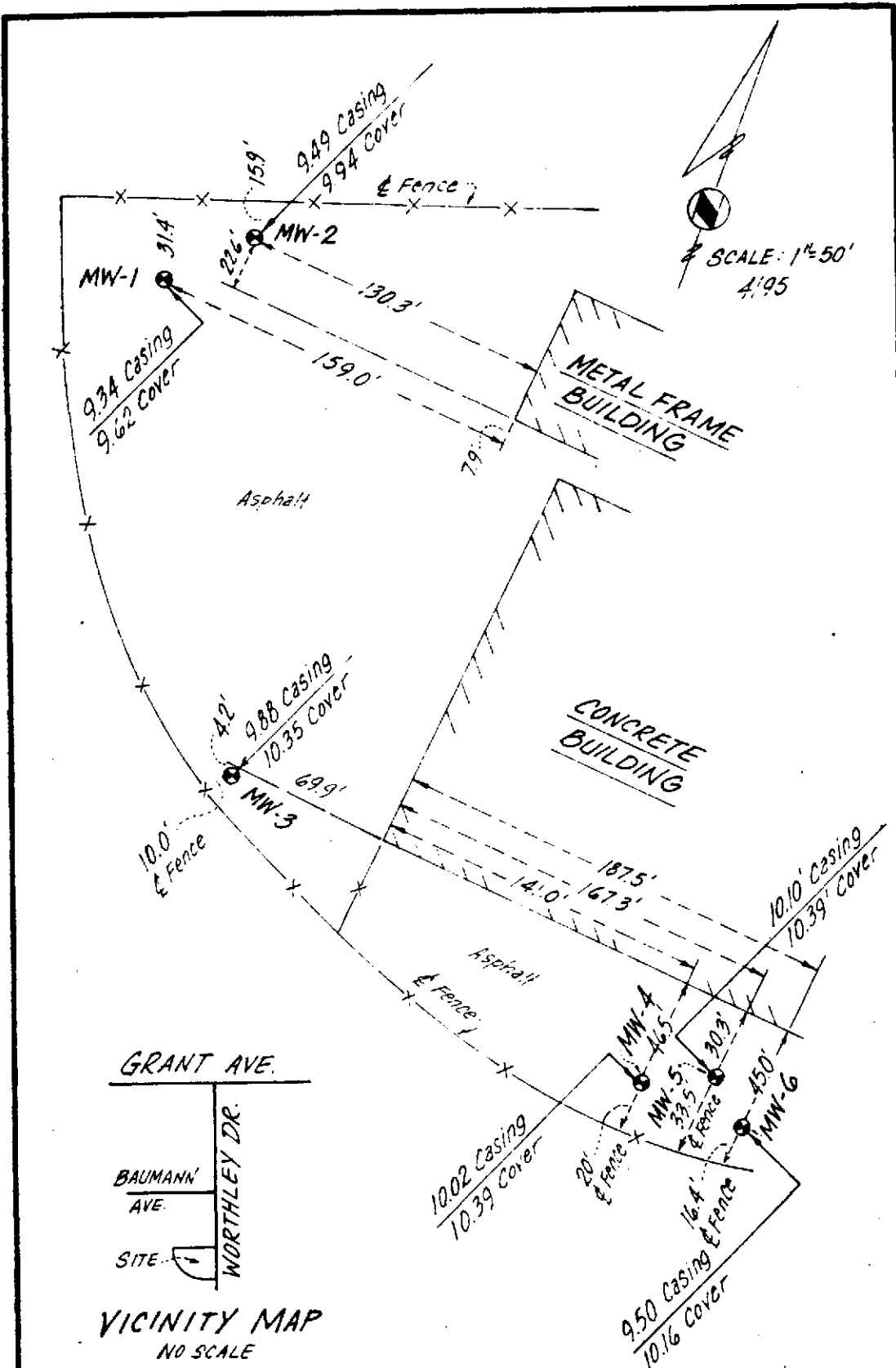


RECON ENVIRONMENTAL CORP.

MONITORING WELL LOCATION MAP
16505 WORTHLEY DRIVE
SAN LORENZO, CALIFORNIA

PROJECT NUMBER: S40180

FIGURE 2.



ELEVATIONS ARE ON MEAN SEA LEVEL DATUM

**MONITORING WELL
ELEVATIONS & LOCATION
16505 WORTHLEY DR.
SAN LORENZO, CA.**

PERI COSSEBOOM
LICENSED LAND SURVEYORS
25 DIVISION STREET
SAN FRANCISCO, CA. 94103
(415) 391-9900
FAX (415) 391-9906

