10/17/89

CHEVRON U.S.A. MARKETING FACILITIES DATE: 10/11/89
RWQCB QUARTERLY SUMMARY
3RD QUARTER 1989

COUNTY: ALAMEDA
ENGINEER: JM RANDALL

CHEVRON FACILITY # 91153 3126 FERNSIDE BLVD
ALAMEDA , CA

/UINVESTIGATION STATUS /W

SOIL STATUS: . . . . . .IN PROGRESS
FREE HYDROCARBON STATUS: . . . . . .IN PROGRESS
DISSOLVED HYDROCARBON STATUS: . . . . . .IN PROGRESS
INVESTIGATION RELEASED: . . . . . .
NEXT CONSULTANT REPORT DUE: . . . . . .10/06/89 *
LATEST CONSULTANT REPORT RECEIVED: 08/24/89
LAST REPORT SUBMITTED TO AGENCY: 06/06/89
INVESTIGATION COMPLETE: . . . . . .

/UREMEDIATION STATUS /W

SOIL STATUS: . . . . . .
FREE HYDROCARBON STATUS: . . . . . .
DISSOLVED HYDROCARBON STATUS: . . . . . .
TYPE OF RECOVERY SYSTEM: . . . . . .
REMEDIAL ACTION PLAN DUE FROM CONSULTANT: *
CONSTRUCTION OF CLEAN-UP SYSTEM STARTED:
CLEAN-UP SYSTEM START-UP: . . . . . .

/UGROUNDWATER MONITORING /W

MONITORING FREQUENCY: . . . . . .
NEXT REPORT DUE FROM CONSULTANT: . . . . . *
LATEST REPORT RECEIVED FROM CONSULTANT:. .
LAST REPORT SUBMITTED TO AGENCY: . . . . .

NEXT ACTION: EA INSTALLING SHALLOW WELL POINTS TO COLLECT WATER AND SOIL SAMPL

* DUE DATE IS THE DATE THE REPORT IS SCHEDULED TO BE RECEIVED AT CHEVRON'S OFFICE. CHEVRON WILL TAKE A REASONABLE AMOUNT OF TIME FOR INTERNAL REVIEW BEFORE A COPY OF THE REPORT WILL BE FORWARDED TO THE REGIONAL BOARD OFFICES.

REPORT NAME: ERPTQUAL

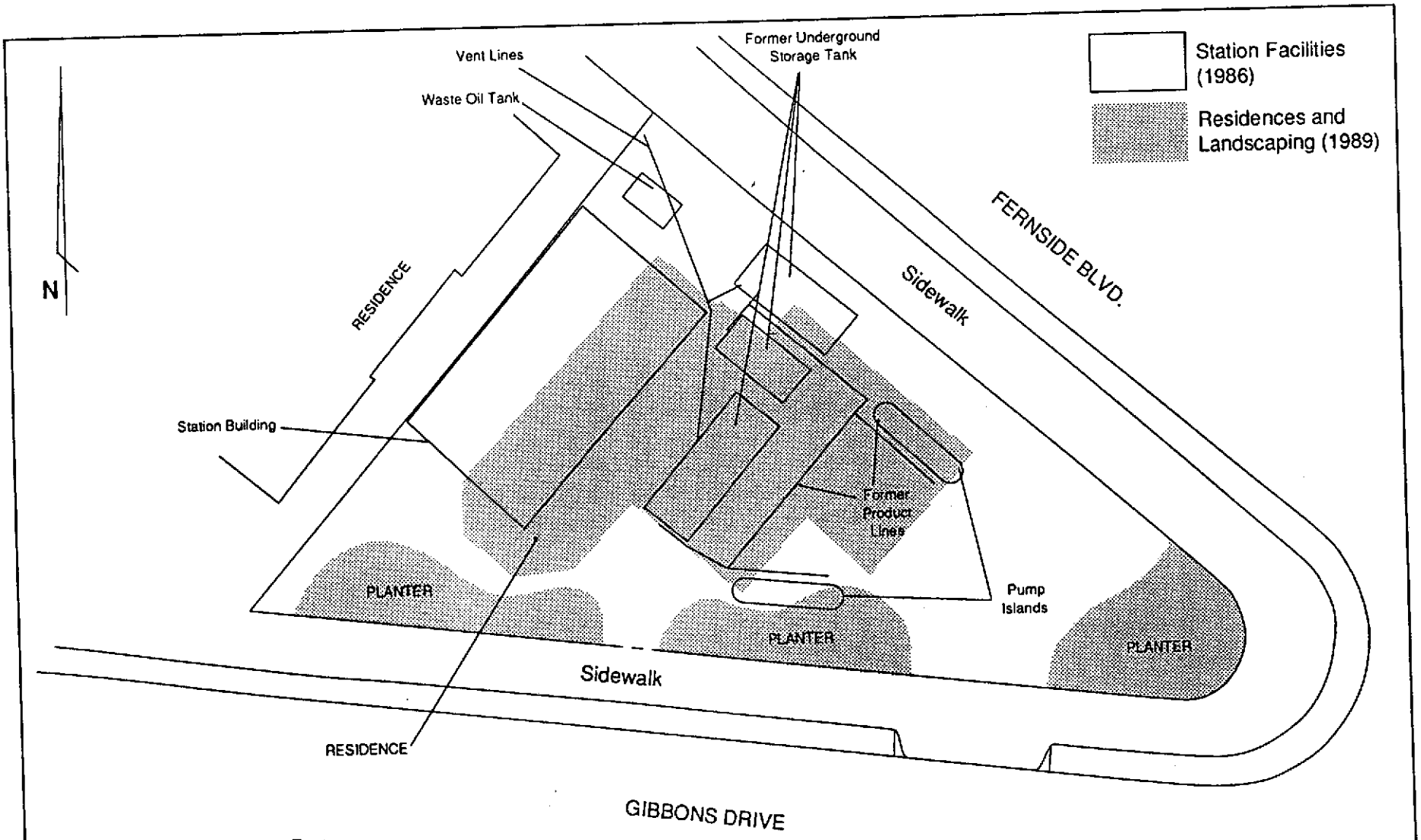

Figure 3. Structures and service station facilities, former Chevron SS 9-1153, Alameda, California, 1986.

Drawn	Date
Reviewed TCW	Date 30 Oct 89

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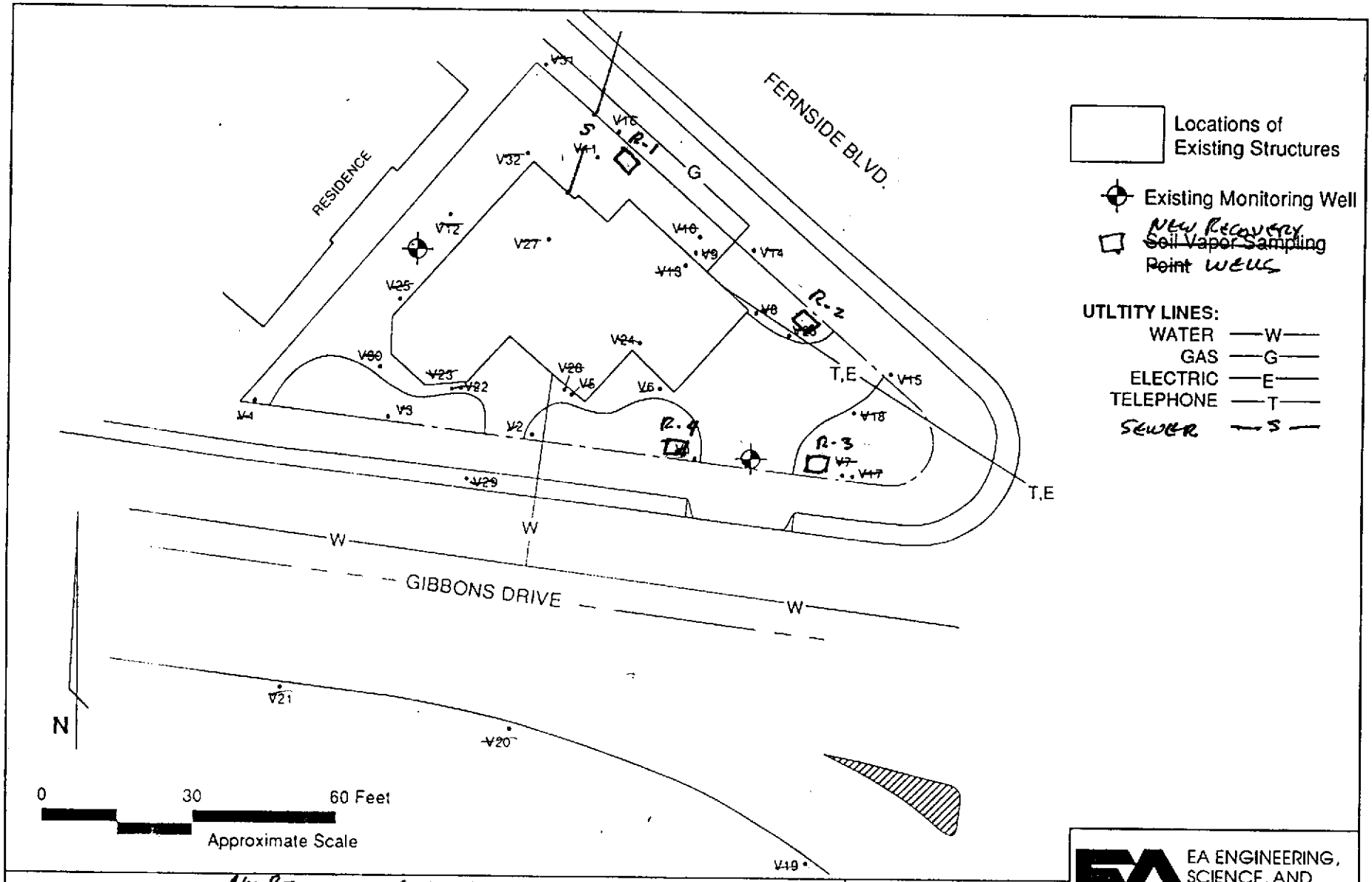

Figure 4. Location of ~~soil vapor sampling points~~ New Recovery Wells and underground utilities at former Chevron SS 9-1153, Alameda, CA. ~~May 1989~~.

Drawn	MME	Date	6/5/89
Reviewed	MO	Date	6/9/89

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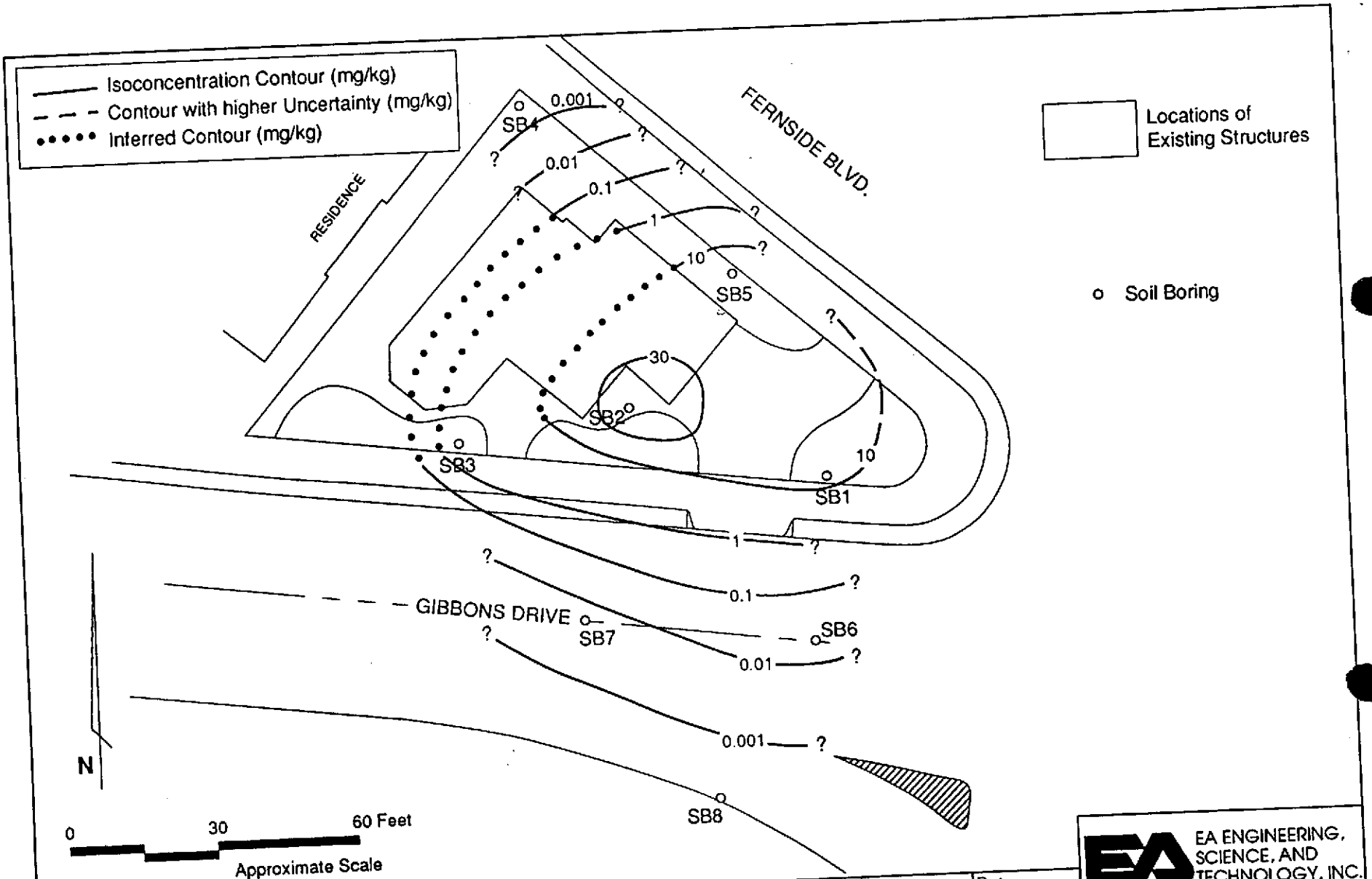

Figure 7. Distribution of benzene (mg/kg) in the soil at 3.5 to 4.5 feet beneath the ground surface, former Chevron SS 9-1153, Alameda, California, June 1989.

Drawn	Date
Reviewed TRJ	Date 3/24/89

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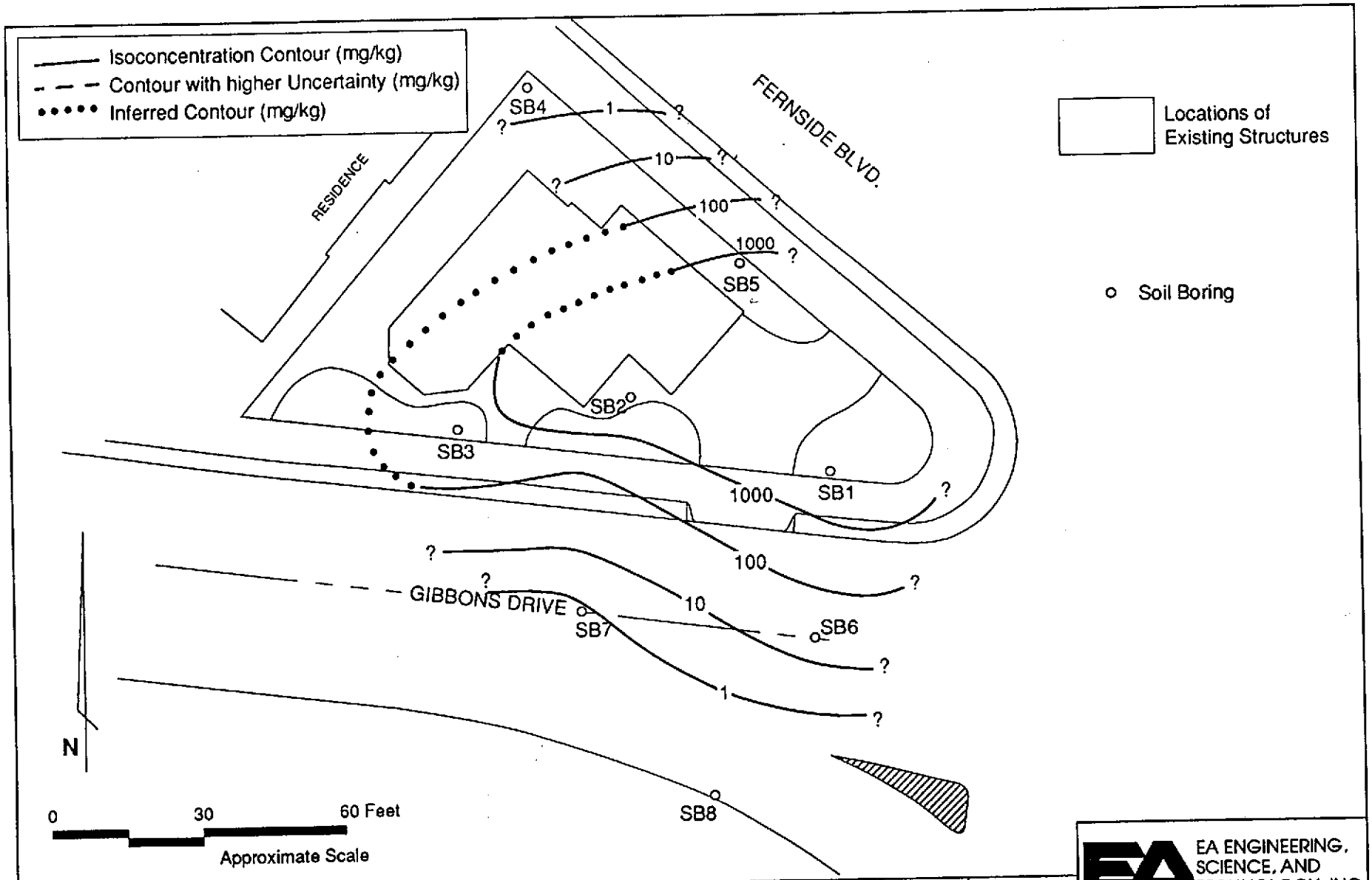

Figure 8. Distribution of TPH (mg/kg) in the soil at 3.5 to 4.5 feet beneath the ground surface, former Chevron SS 9-1153, Alameda, California, June 1989.

Drawn	Date
Reviewed TRW	Date 30 Oct 89

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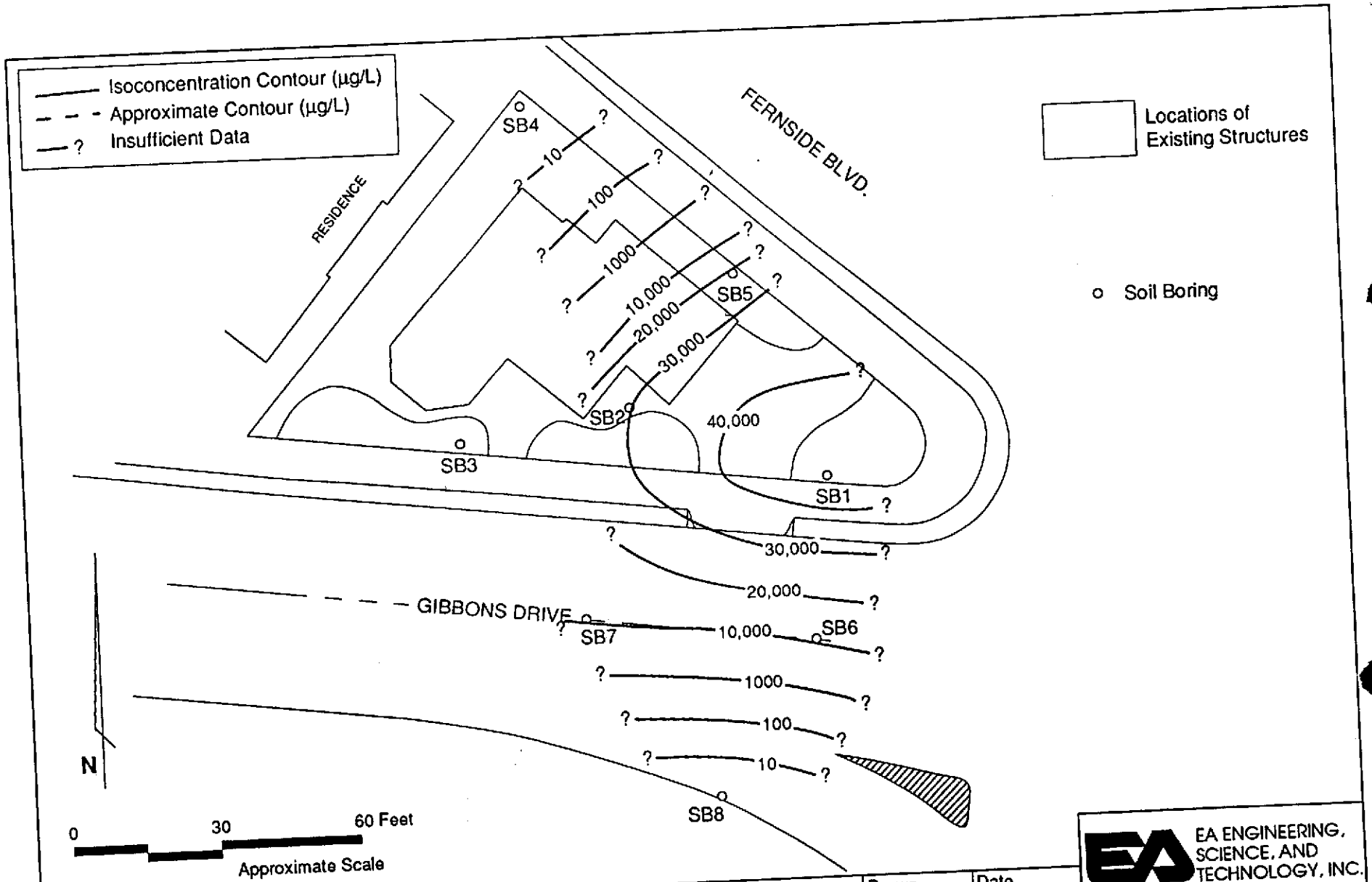

Figure 9. Isoconcentration contours (µg/L) of benzene in the groundwater, former Chevron SS 9-1153, Alameda, California, June 1989.

Drawn	Date
Reviewed TRW	Date 30CT89

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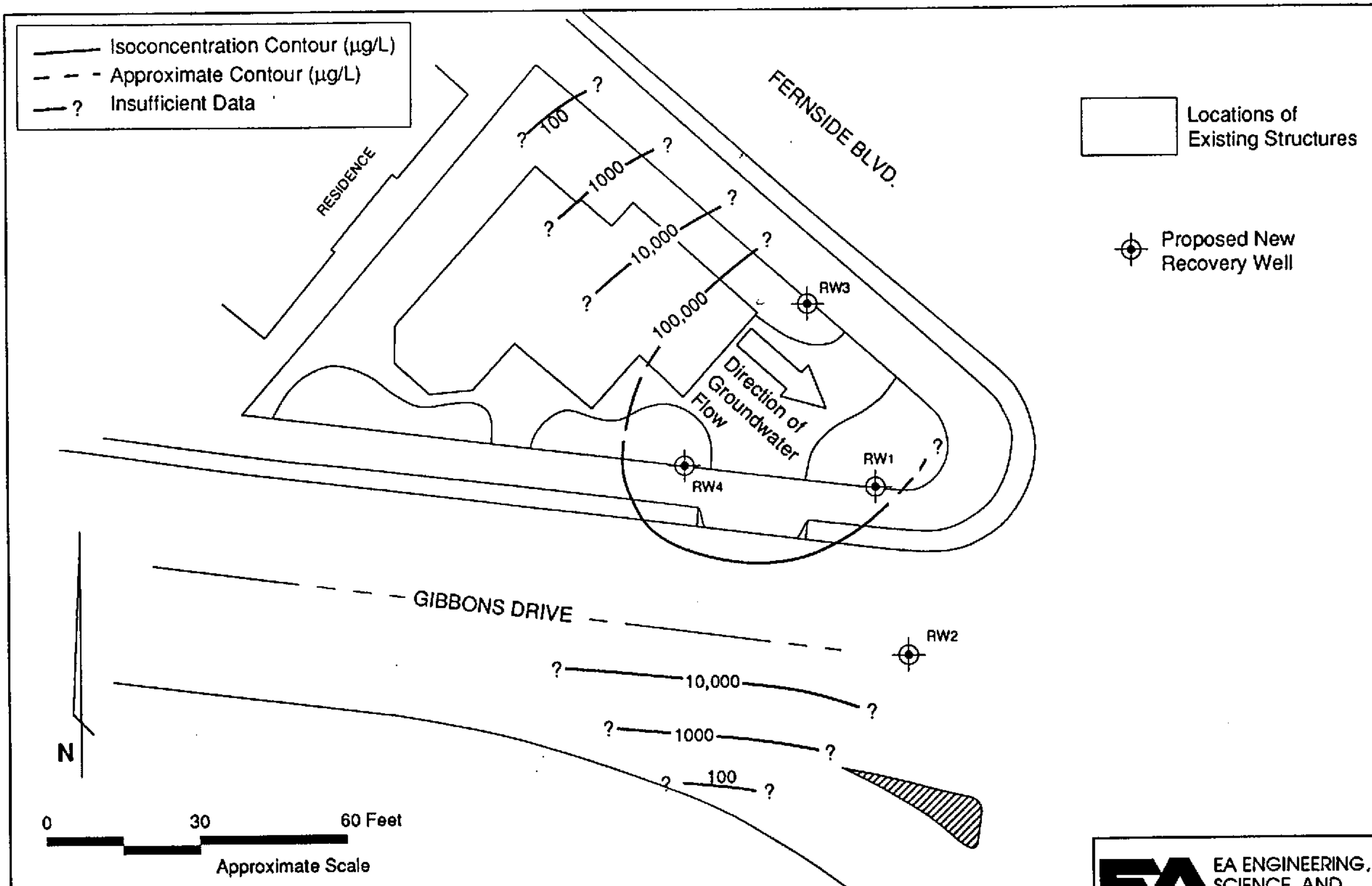

Figure 11. Recovery well location, groundwater flow, and isoconcentration contours (µg/L) of TPH in the groundwater, former Chevron SS 9-1153, Alameda, California, June 1989.

Drawn	Date
Reviewed	Date

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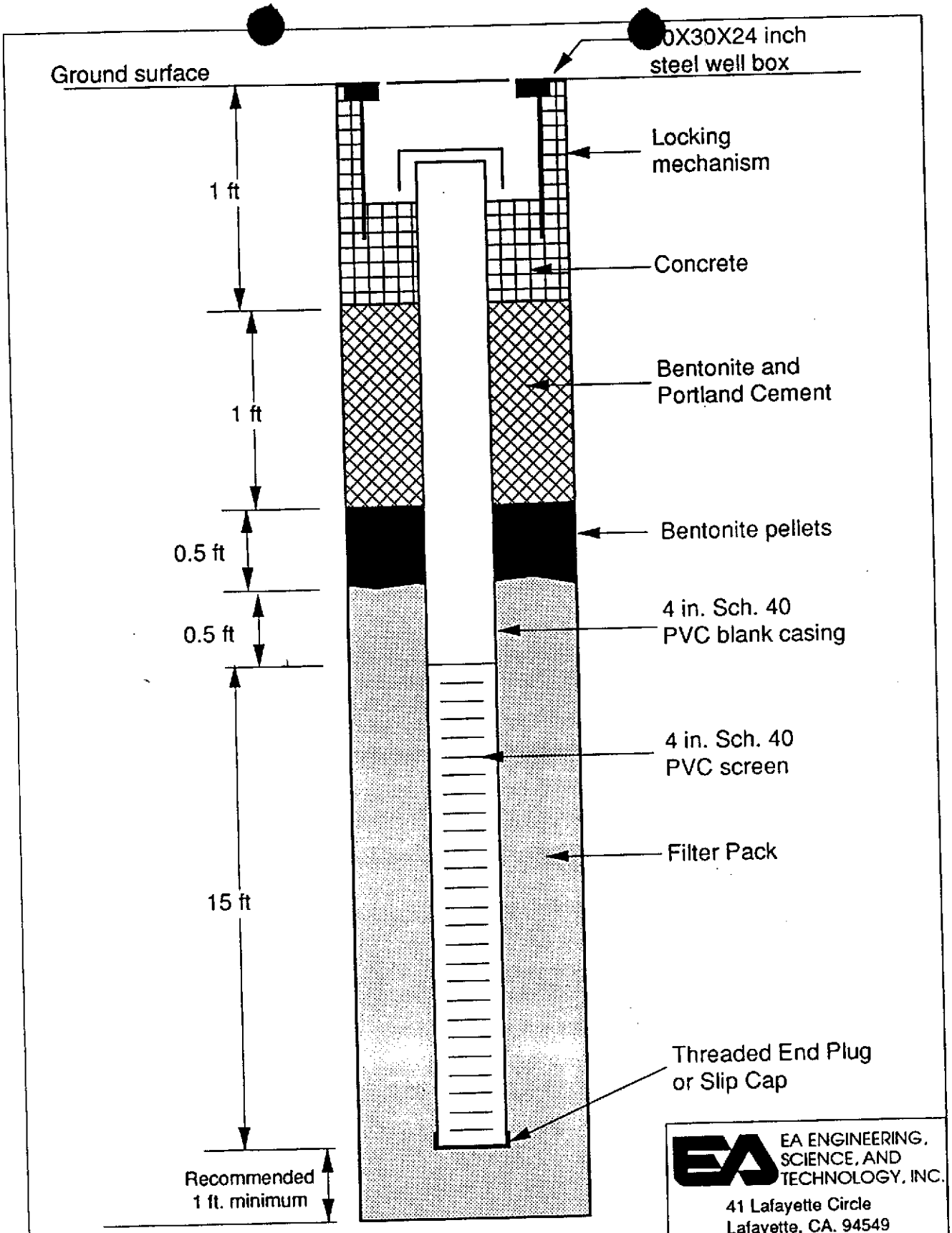

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Drawn	Date
Reviewed TKW	Date 30 Oct 89

Figure 12. Representative details of proposed monitoring/recovery wells, former Chevron SS 9-1153, Alameda, California.

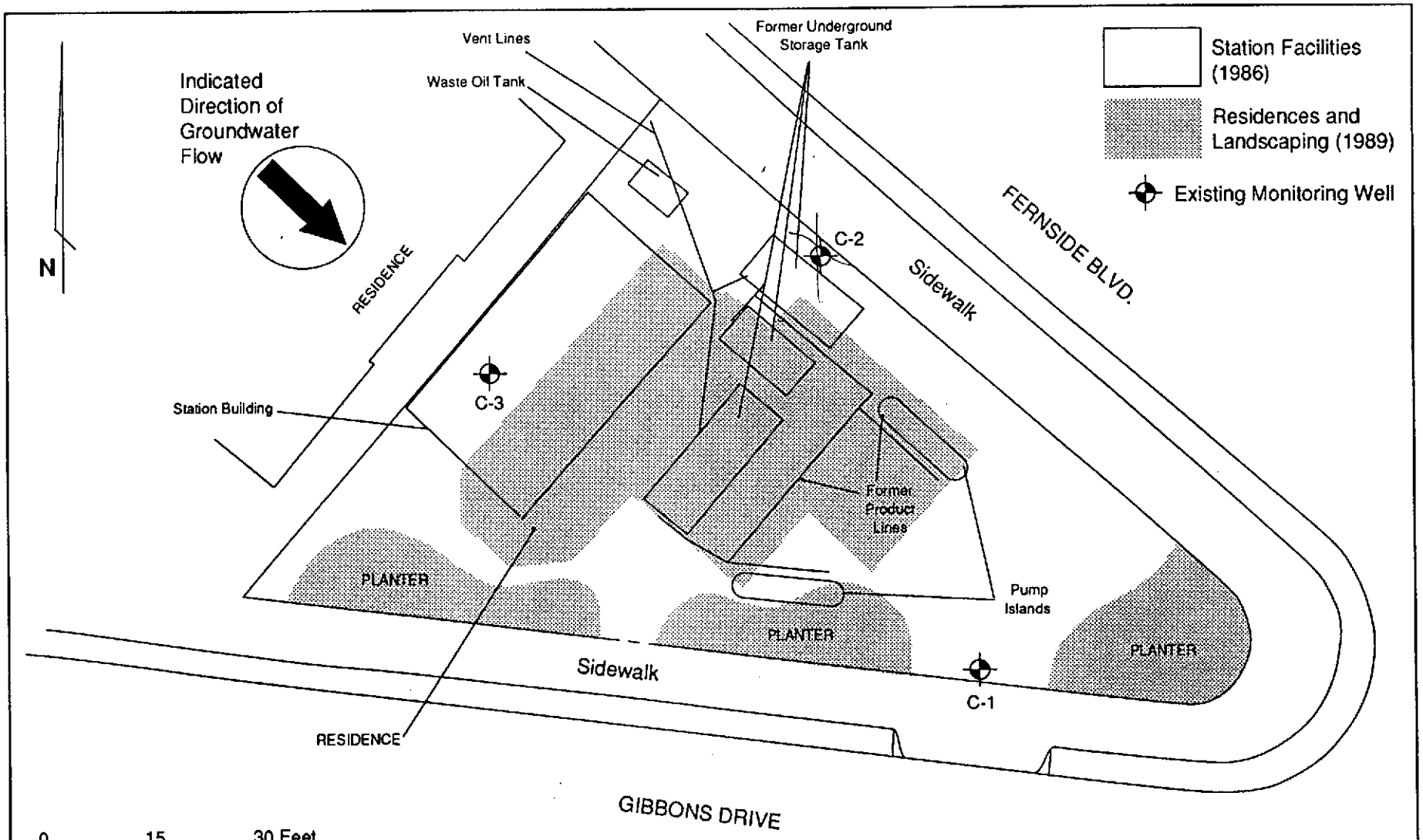

Figure 4. Groundwater monitoring wells with direction of groundwater flow, former Chevron SS 9-1153, Alameda, California, August 1986.

Drawn	Date
Reviewed 30CCL24	Date TRD

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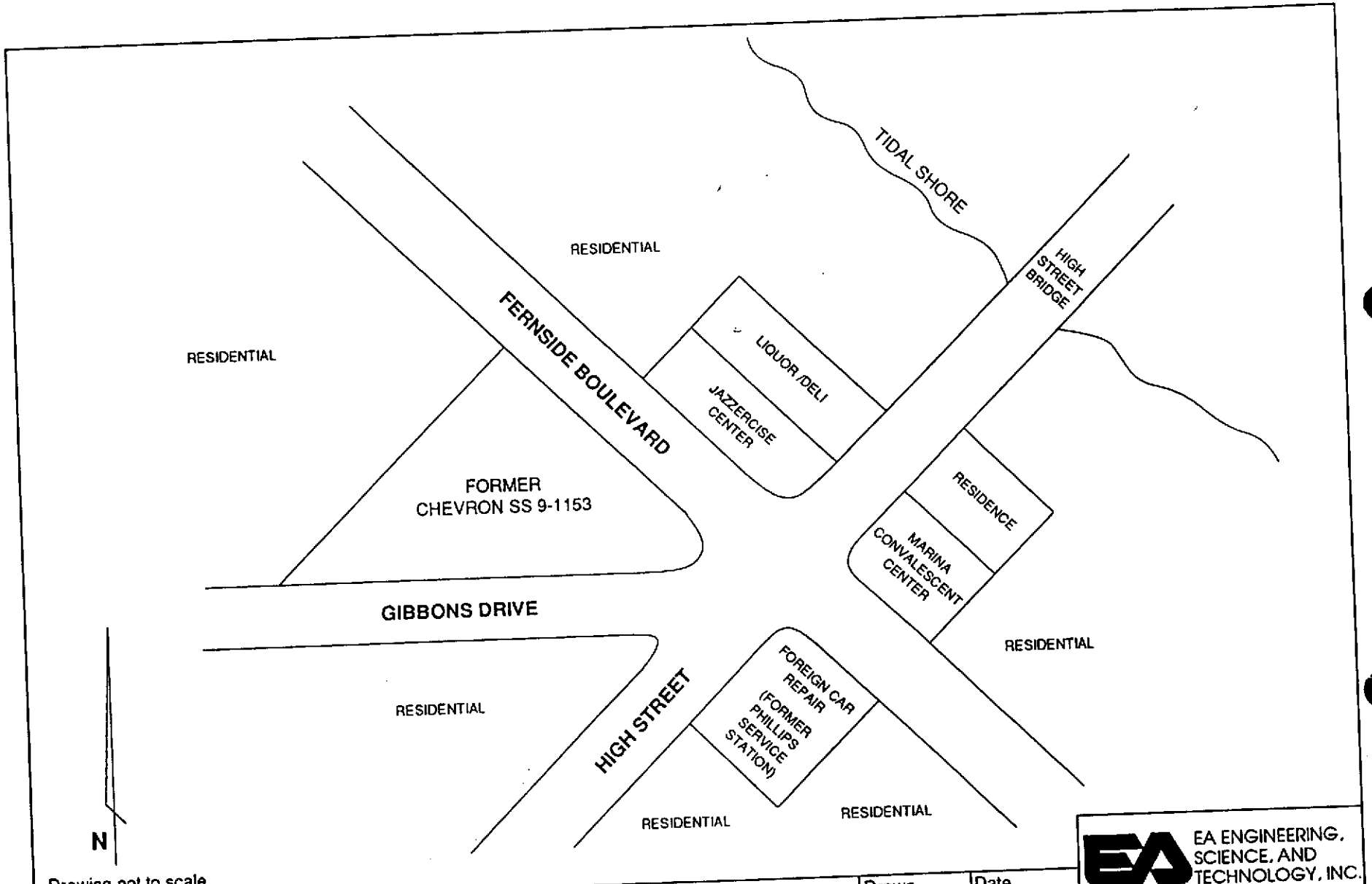

Figure 2. Land use in the vicinity of former Chevron SS 9-1153, Alameda, CA. May 1989.

Drawn	Date
Reviewed TRC	Date 3/22/89

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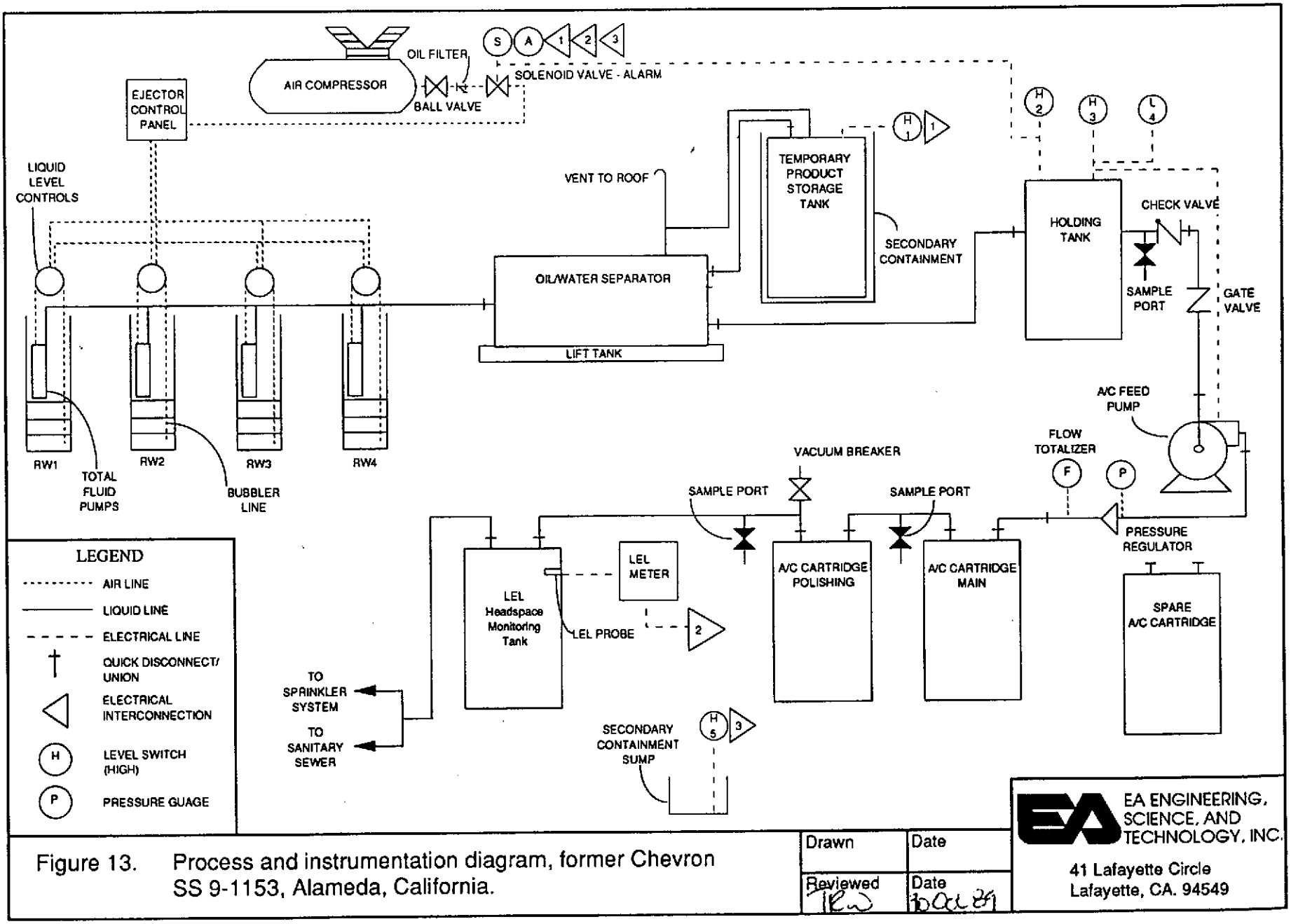

Figure 13. Process and instrumentation diagram, former Chevron SS 9-1153, Alameda, California.

Drawn	Date
Reviewed TRW	Date 10 Oct 89

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TABLE 3 CONCENTRATIONS OF PETROLEUM HYDROCARBON CONSTITUENTS IN SOIL AND GROUNDWATER SAMPLES FROM THE VICINITY OF FORMER CHEVRON SS 9-1153, 3126 FERNSIDE BOULEVARD, ALAMEDA, CALIFORNIA, JUNE 1989

Soil Concentrations (mg/kg = ppm)

Well No.	Date	Depth (feet)	Benzene	Toluene	Ethyl-Benzene	Xylenes	Total Petroleum Hydrocarbons
SB1	6-27-89	1	0.002	<0.001	0.001	0.008	0.43
SB1 (replicate)	6-27-89	1	0.001	<0.001	<0.001	0.008	-
SB1	6-27-89	4.5	18	111	37	149	5,500
SB1	6-27-89	6	1	2.200	0.540	1.930	65
SB1	6-27-89	9.5	0.170	0.460	0.140	0.530	10
SB2	6-27-89	1	0.009	0.024	0.010	0.026	<0.05
SB2 (replicate)	6-27-89	1	-	-	-	-	<0.05
SB2	6-27-89	4	45	230	78	283	1,500
SB2	6-27-89	6	0.470	1.300	0.310	1.120	4.7
SB3	6-27-89	0.5	<0.001	<0.001	<0.001	<0.001	0.07
SB3	6-27-89	3.5	2.400	3.200	5.300	17.8	850
SB4	6-29-89	1	<0.001	<0.001	<0.001	<0.001	<0.05
SB4 (replicate)	6-29-89	1	-	-	-	-	<0.05
SB4	6-29-89	4	<0.001	<0.001	<0.001	<0.001	<0.05
SB4	6-29-89	7	<0.001	<0.001	<0.001	<0.001	<0.05
SB5	6-29-89	0.5	0.019	0.017	0.019	0.153	0.25
SB5 (replicate)	6-29-89	0.5	0.020	0.021	0.023	0.178	-
SB5	6-29-89	4	15	81	30	108	1,700
SB5 (replicate)	6-29-89	4	-	-	-	-	1,600
SB5	6-29-89	6	0.260	1.900	1.400	5.200	470
SB6	6-28-89	3.5	0.026	0.100	0.160	0.370	15
SB7	6-28-89	4	0.002	<0.001	<0.001	<0.001	<0.05
SB7 (replicate)	6-28-89	4	0.002	<0.001	<0.001	<0.001	-
SB8	6-29-89	3	<0.001	<0.001	<0.001	<0.001	<0.05

TABLE 3 (CONT.)

Groundwater Concentrations (ug/L [ppb])

Well No.	Date		Benzene	Toluene	Ethyl-Benzene	Xylenes	Total Petroleum Hydrocarbons
SB1	6-27-89	Water	52,000	64,000	6,700	23,700	110,000
SB2	6-28-89	Water	30,000	59,000	6,600	26,200	160,000
SB4	6-29-89	Water	<1	<1	<1	<1	<50
SB4 (replicate)	6-29-89	Water	<1	<1	<1	<1	<50
SB5	6-29-89	Water	27,000	22,000	4,600	13,400	110,000
SB6	6-27-89	Water	12,000	7,400	2,500	7,100	74,000
SB7	6-28-89	Water	14,000	6,800	3,300	8,200	50,000
SB8	6-29-89	Water	<1	<1	<1	<1	<50
SB8 (replicate)	6-29-89	Water	-	-	-	-	<50
Rinsate	6-29-89	Water	1	<1	<1	<1	<50