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LETTER REPORT
QUARTERLY GROUNDWATER MONITORING
Second Quarter 1993
at
ARCO Station 2035
1001 San Pablo Avenue
Albany, California

69036.08

7/19/93

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July 19, 1993
0402MWHE
69036.08

Mr. Michael Whelan
ARCO Products Company
P.O. Box 5811
San Mateo, California 94402

Subject: Second Quarter 1993 Groundwater Monitoring Report for ARCO Station
2035, 1001 San Pablo Avenue, Albany, California.

Mr. Whelan:

As requested by ARCO Products Company (ARCO), RESNA Industries Inc. (RESNA) prepared this letter report which summarizes the results of the second quarter 1993 groundwater monitoring performed by ARCO's contractor, EMCON Associates (EMCON) of San Jose, at the above-referenced site. The objectives of this quarterly groundwater monitoring event are to evaluate changes in the groundwater flow direction and gradient, and changes in concentrations of petroleum hydrocarbons in the local groundwater associated with the former underground waste-oil tank and former underground gasoline-storage tanks (USTs) at the site. The field work and laboratory analyses of groundwater samples during this quarter were performed under the direction of EMCON and included measuring depths to groundwater, subjectively analyzing groundwater for the presence of petroleum product, collecting groundwater samples from the wells for laboratory analyses, and directing a State-certified laboratory to analyze the groundwater samples. Field procedures and acquisition of field data were performed under the direction of EMCON; evaluation and warrant of their field data and field protocols is beyond RESNA's scope of work. RESNA's scope of work was limited to interpretation of field and laboratory analytical data, which included evaluating trends in reported hydrocarbon concentrations in the local groundwater, the groundwater gradient, and direction of groundwater flow beneath the site.

The operating ARCO Station 2035 is located at the southeastern corner of the intersection of Marin and San Pablo Avenues in Albany, California, as shown on the Site Vicinity Map, Plate 1.

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ARCO Station 2035, Albany, California

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The results of previous environmental investigations at the site are summarized in the reports listed in the References section. The locations of the groundwater monitoring wells, borings and other pertinent site features are shown on Plate 2, Generalized Site Plan.

Groundwater Sampling and Gradient Evaluation

Depth-to-water levels (DTW) were measured by EMCON field personnel on April 13, May 22, and June 17, 1993. Quarterly sampling was performed by EMCON field personnel on April 13, 1993. The results of EMCON's field work on the site, including DTW levels and subjective analyses for the presence of product in the groundwater in MW-1 through MW-6, and RW-1, are presented on EMCON's Field Reports. These data are included in Appendix A.

The DTW levels, wellhead elevations, groundwater elevations, and subjective observations of product in the groundwater for this quarter and previous groundwater monitoring at the site are summarized in Table 1, Cumulative Groundwater Monitoring Data. A presence of floating product or sheen was noted in the product skimmer or bailer in RW-1 during the April, May, and June monitoring events. During April, the amount of floating product was not measured, and therefore the elevation of groundwater for RW-1 was not used in gradient evaluation. Visual evidence of product or sheen was not noted in any other monitoring wells during this quarter. EMCON's DTW levels were used to evaluate the groundwater elevations. The groundwater gradients and flow directions evaluated for April, May, and June 1993, are shown on the Groundwater Gradient Maps, Plates 3 through 5. The average interpreted groundwater gradient was approximately 0.02 ft/ft with flow directions toward the west in April, west-northwest in May, and west-southwest in June. These gradients and flow directions are generally consistent with those interpreted for previous quarters.

Groundwater monitoring wells MW-1 through MW-6 were purged and sampled by EMCON field personnel on April 13, 1993. RW-1 was not sampled due to the presence of floating product. Field data collected during purging and sampling of the onsite wells are summarized in EMCON's Water Sample Field Data Sheets, included in Appendix A. Purge water generated during purging and sampling of the monitoring wells was transported to Gibson Environmental in Redwood City, California for recycling.

Laboratory Methods and Results

Under the direction of EMCON, water samples collected from the wells were analyzed by Columbia Analytical Services, Inc. (California Department of Health Services Certification

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No. 1426) for benzene, toluene, ethylbenzene, and total xylenes (BTEX), and for total petroleum hydrocarbons as gasoline (TPHg) using modified Environmental Protection Agency (EPA) Methods 5030/8020/California DHS LUFT Method. In addition, the water sample from groundwater monitoring well MW-3, located next to the former waste-oil tank pit was analyzed for total oil and grease (TOG) using Standard Method 5520 C and F. Results of these and previous water analyses are summarized in Table 2, Cumulative Results of Laboratory Analyses of Water Samples - TPHg and BTEX; and Table 3, Cumulative Results of Laboratory Analyses of Water Samples - TPHd, TOG, VOC, BNAs, PCB, and Metals. TPHg and benzene concentrations are shown on Plate 6, TPHg/Benzene Concentrations in Groundwater. The Chain of Custody Records and Laboratory Analytical Reports are included in Appendix A.

The following general trends were noted in reported hydrocarbon concentrations in groundwater from the monitoring wells at the site since the last quarterly monitoring event: concentrations increased in wells MW-1 and MW-3; and remained nondetectable in MW-2, MW-4, MW-5, and MW-6. The floating product in recovery well RW-1 remained present as only a sheen.

Product Removal

The floating product skimmer was inspected and floating product was measured in well RW-1 by RESNA field personnel on April 7, and 22, May 6, and June 22, 1993. No measurable amount of floating product (except for product sheen) was detected in well RW-1 in April, May or June. The results of skimmer inspections are presented on RESNA's Field Reports, which are included in Appendix A. Quantities of floating product recovered and thickness of floating product for this and previous quarters are presented in Table 4, Approximate Cumulative Product Recovered. The total cumulative recovered product from RW-1 is approximately 23 gallons.

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Copies of this report should be forwarded to:

Mr. Barney Chan
Alameda County Health Care Services Agency
Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94621

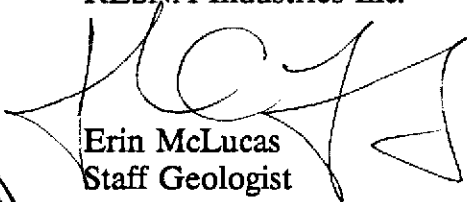
Mr. Richard Hiett
Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster Street, Suite 500
Oakland, California 94612

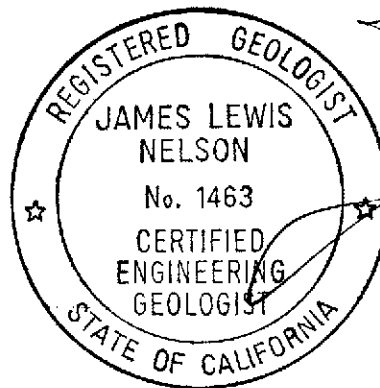
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ARCO Station 2035, Albany, California


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If you have any questions or comments, please call us at (408) 264-7723.

Sincerely,
RESNA Industries Inc.


Erin McLucas
Staff Geologist




James L. Nelson
Certified Engineering
Geologist # 1463

- Enclosures:
- References
 - Plate 1, Site Vicinity Map
 - Plate 2, Generalized Site Plan
 - Plate 3, Groundwater Gradient Map, April 13, 1993
 - Plate 4, Groundwater Gradient Map, May 22, 1993
 - Plate 5, Groundwater Gradient Map, June 17, 1993
 - Plate 6, TPHg/Benzene Concentrations in Groundwater, April 13, 1993
 - Table 1, Cumulative Groundwater Monitoring Data
 - Table 2, Cumulative Results of Laboratory Analyses of Water Samples - TPHg and BTEX
 - Table 3, Cumulative Results of Laboratory Analyses of Water Samples - TPHd, TOG, VOC, BNAs, PCB and Metals
 - Table 4, Approximate Cumulative Product Recovered
 - Appendix A: EMCON's Field Reports; Summary of Groundwater Monitoring Data, Certified Analytical Reports with Chain-of-Custody, and Water Sample Field Data Sheets

RESNA's Field Reports

Quarterly Groundwater Monitoring
ARCO Station 2035, Albany, California

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REFERENCES

Applied GeoSystems. January 24, 1990. Limited Environmental Site Assessment at ARCO Station 2035. AGS 96036-1.

Department of Health Services, State of California. October 24, 1990. Summary of California Drinking Water Standards.

RESNA/Applied GeoSystems. April 29, 1991. Work Plan for Subsurface Investigations and Remediation at ARCO Station 2035, 1001 San Pablo Avenue, Albany, California. AGS 69036.02.

RESNA/Applied GeoSystems. April 29, 1991. Addendum One to Work Plan at ARCO Station 2035, 1001 San Pablo Avenue, Albany, California. AGS 69036.02

RESNA/Applied GeoSystems. June 24, 1991. Site Safety Plan for the ARCO Service Station 2035, 1001 San Pablo Avenue, Albany, California. AGS 69036.03S.

RESNA/Applied GeoSystems. September 11, 1991. Underground Gasoline-Storage Tank Removal and Replacement. AGS 69036.03.

RESNA/Applied GeoSystems. September 24, 1991. Addendum Two to Work Plan at ARCO Station 2035, 1001 San Pablo Avenue, Albany, California. AGS 69036.02

RESNA March 6, 1992. Subsurface Environmental Investigation and Pump Test at ARCO Station 2035, 1001 San Pablo Avenue, Albany, California. 69036.02.

RESNA May 4, 1992. Letter Report, Quarterly Groundwater Monitoring First Quarter 1992 at ARCO Station 2035, 1001 San Pablo Avenue, Albany, California. 69036.04

RESNA May 28, 1992. Addendum Three to Work Plan at ARCO Station 2035, 1001 San Pablo Avenue, Albany, California. AGS 69036.05

RESNA August 31, 1992. Letter Report, Quarterly Groundwater Monitoring Second Quarter 1992 at ARCO Station 2035, 1001 San Pablo Avenue, Albany, California. 69036.04

RESNA November 30, 1992. Letter Report, Quarterly Groundwater Monitoring Third Quarter 1992 at ARCO Station 2035, 1001 San Pablo Avenue, Albany, California. 69036.04

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REFERENCES

RESNA November 30, 1992. Additional Subsurface Environmental Investigation and Vapor Extraction Test at ARCO Station 2035, 1001 San Pablo Avenue, Albany, California. 69036.05

RESNA March 16, 1993. Letter Report, Quarterly Groundwater Monitoring Fourth Quarter 1992 at ARCO Station 2035, 1001 San Pablo Avenue, Albany, California. 69036.04

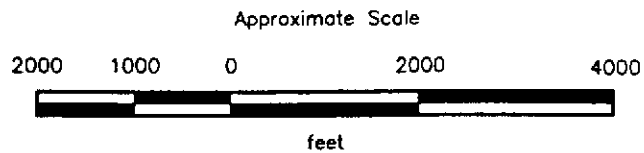
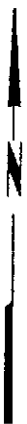
RESNA April 29, 1993. Letter Report, Quarterly Groundwater Monitoring First Quarter 1993 at ARCO Station 2035, 1001 San Pablo Avenue, Albany, California. 69036.08



Base: U.S. Geological Survey
 7.5-Minute Quadrangles
 Richmond/Oakland West, California.
 Photorevised 1980

LEGEND

○ = Site Location



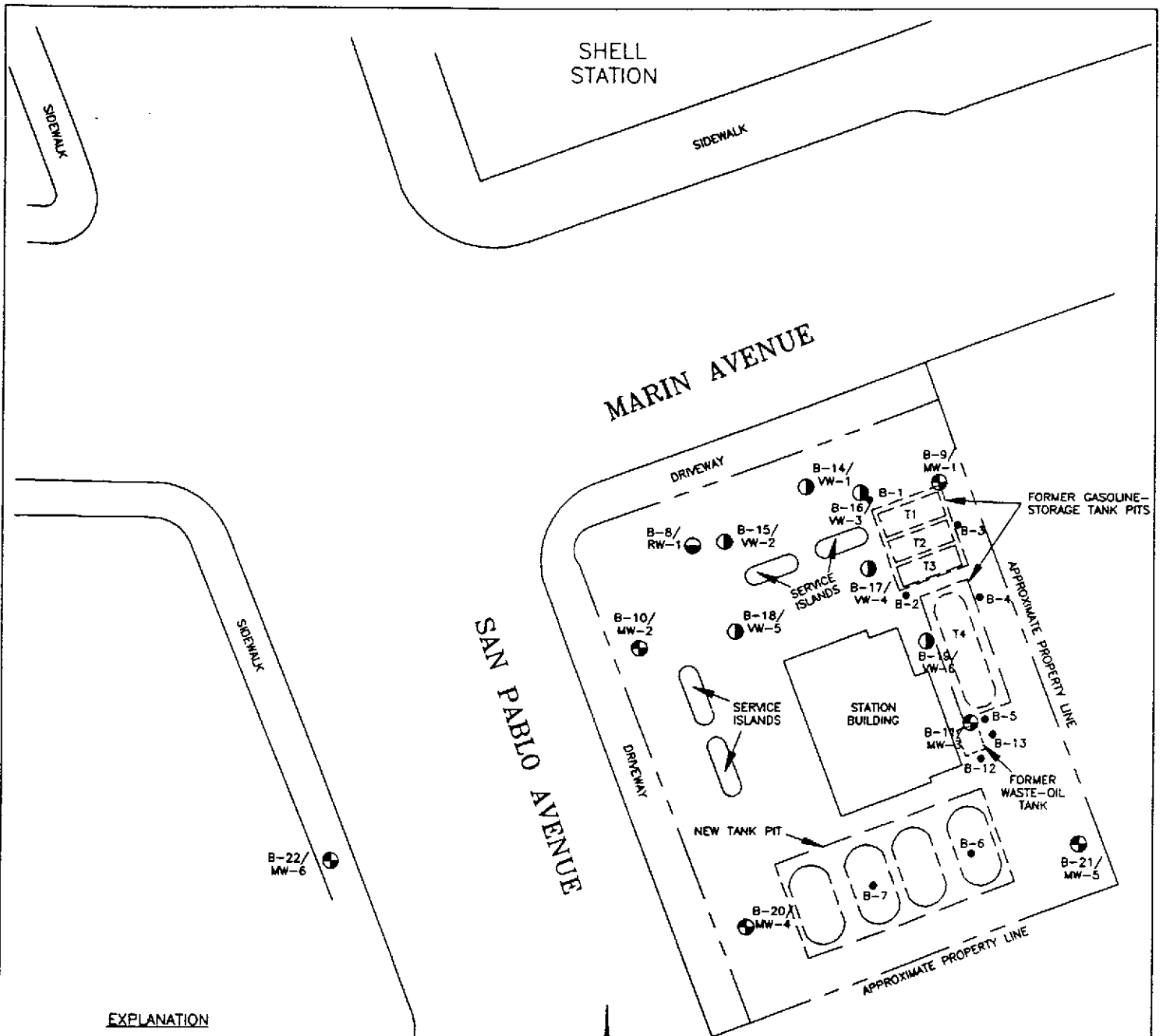
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SITE VICINITY MAP
ARCO Station 2035
1001 San Pablo Avenue
Albany, California

PLATE

1



EXPLANATION

- B-19/
VW-6 ● = Vapor extraction well
(RESNA, Aug. 1992)
- B-8/
RW-1 ● = Recovery well
(RESNA, October 1991)
- B-22/
MW-6 ● = Monitoring well
(RESNA, October 1991 and November 1992)
- B-13 ● = Soil boring
(RESNA, Aug. 1989, June 1991, and Aug. 1992)

Source: Surveyed by John E. Koch, Land Surveyor.

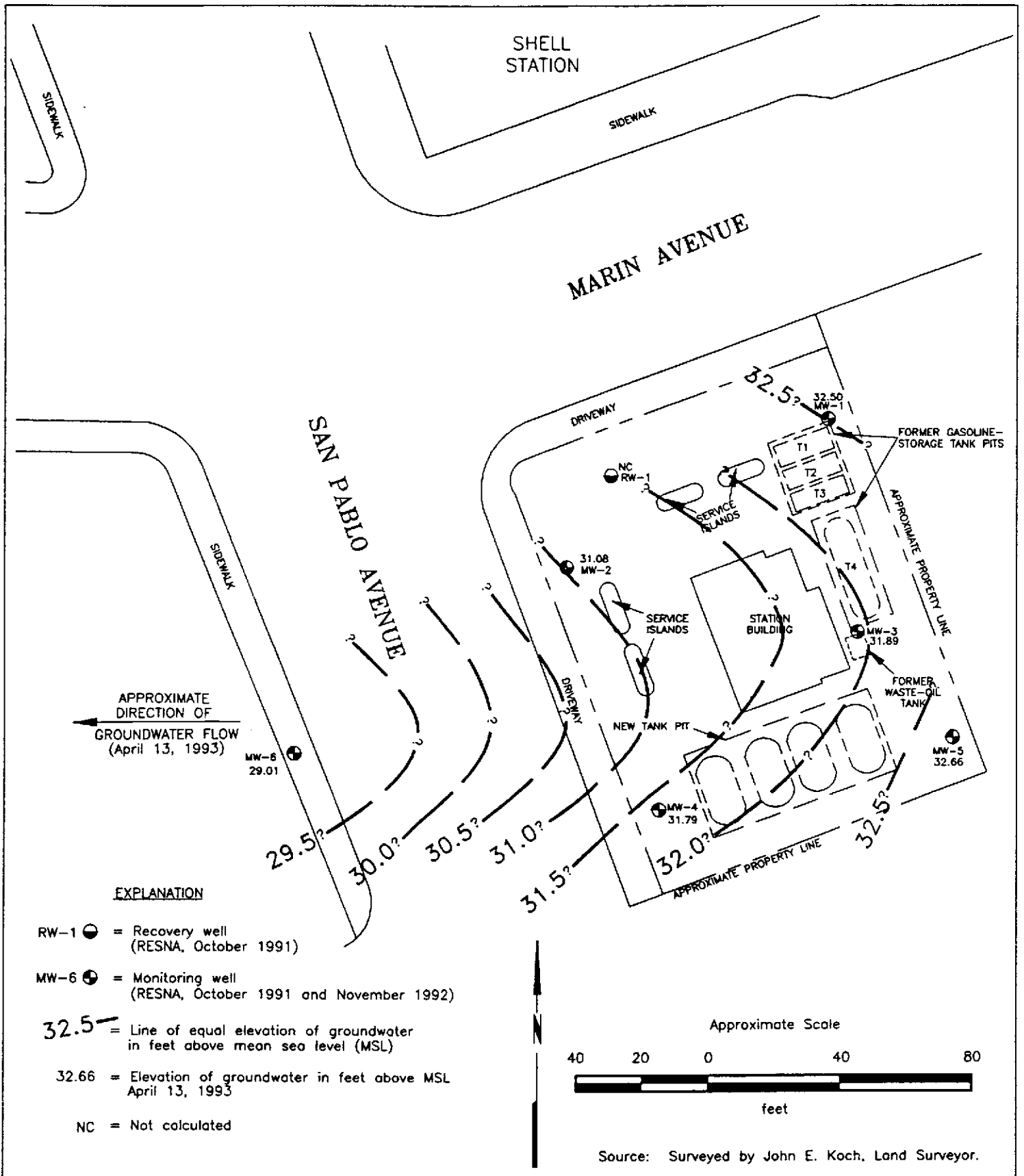
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GENERALIZED SITE PLAN
ARCO Station 2035
1001 San Pablo Avenue
Albany, California

PLATE
2



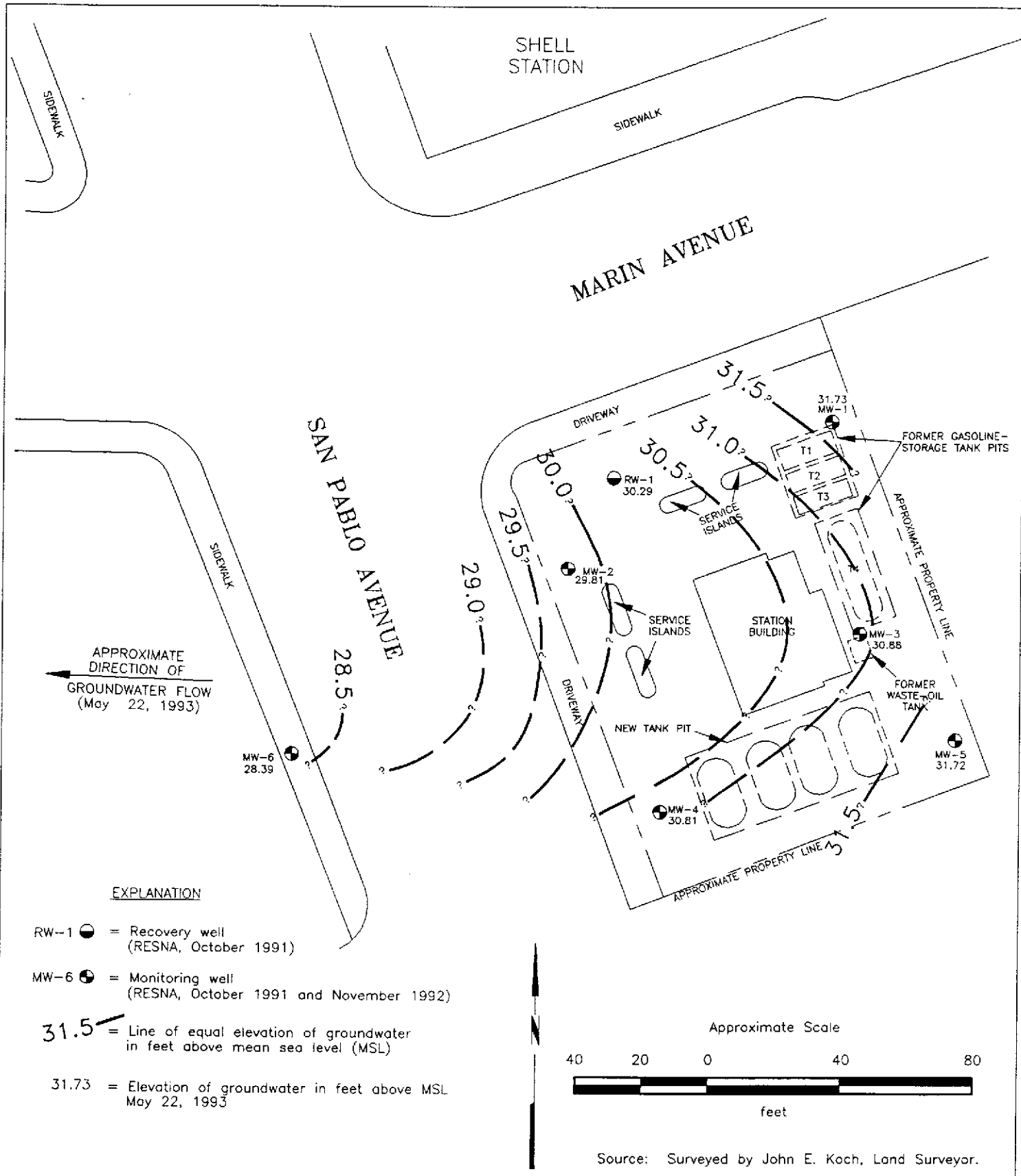
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GROUNDWATER GRADIENT MAP
ARCO Station 2035
1001 San Pablo Avenue
Albany, California

PLATE
3



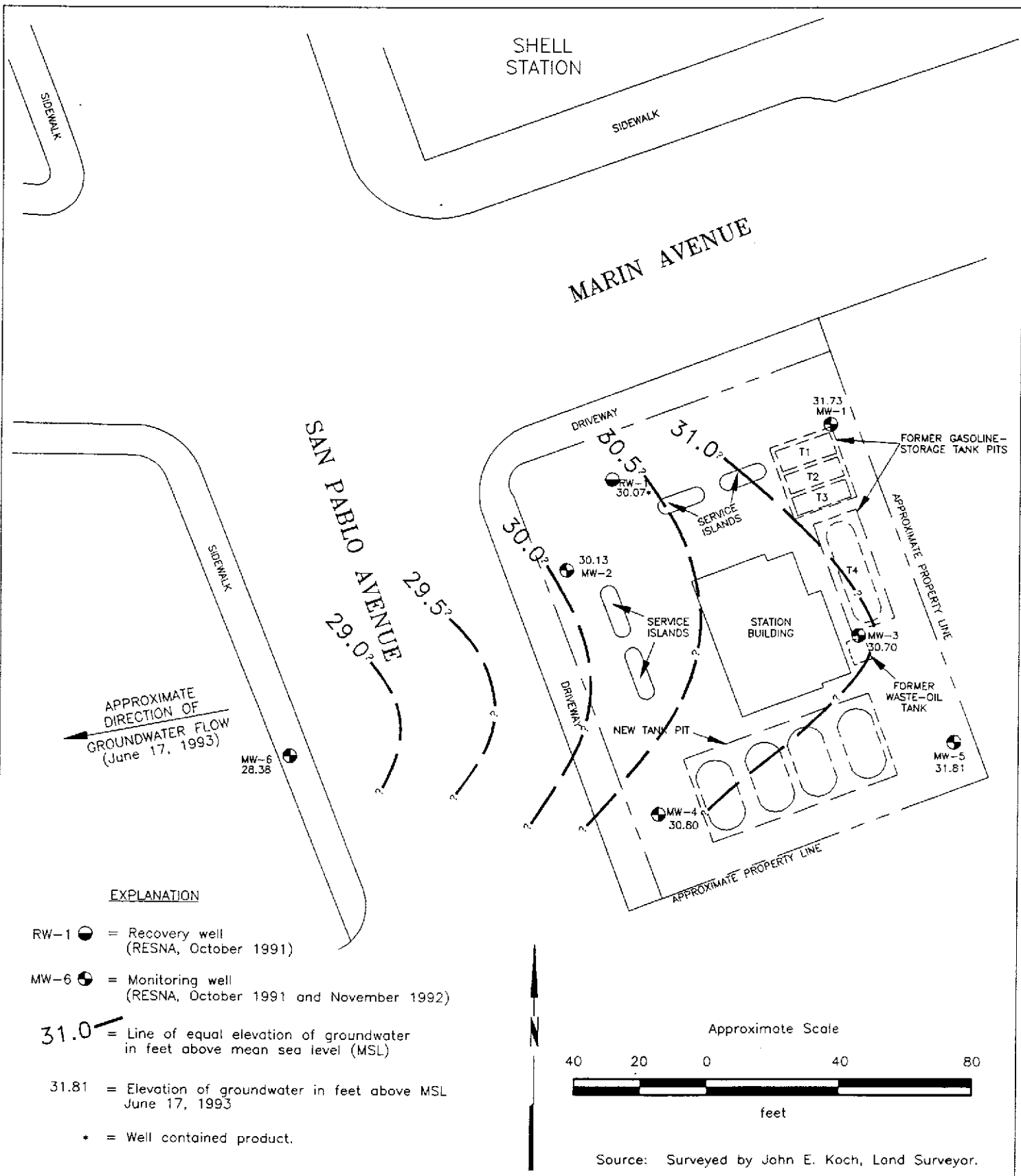
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GROUNDWATER GRADIENT MAP
ARCO Station 2035
1001 San Pablo Avenue
Albany, California

PLATE
4



EXPLANATION

- RW-1 ● = Recovery well (RESNA, October 1991)
- MW-6 ● = Monitoring well (RESNA, October 1991 and November 1992)
- 31.0 — = Line of equal elevation of groundwater in feet above mean sea level (MSL)
- 31.81 = Elevation of groundwater in feet above MSL June 17, 1993
- * = Well contained product.

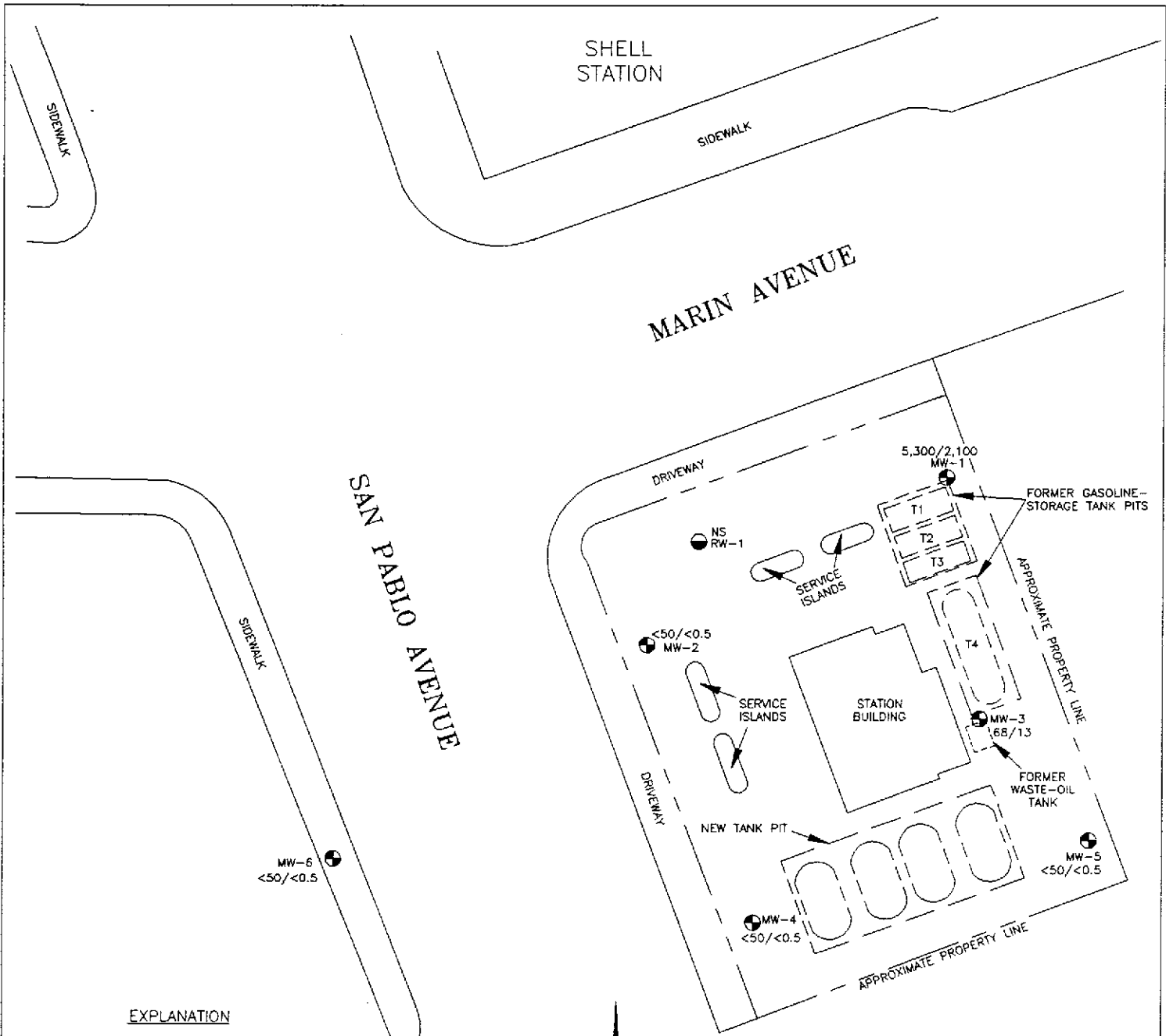
Source: Surveyed by John E. Koch, Land Surveyor.





GROUNDWATER GRADIENT MAP
ARCO Station 2035
1001 San Pablo Avenue
Albany, California

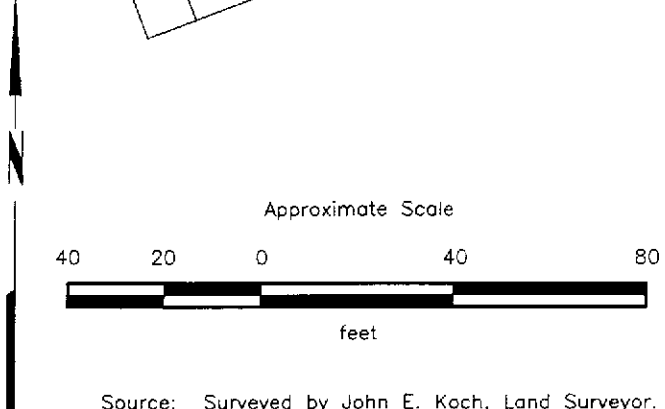
PLATE
5

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EXPLANATION

- RW-1  = Recovery well (RESNA, October 1991)
- MW-6  = Monitoring well (RESNA, October 1991 and November 1992)
- 5,300/2,100 = Concentration of TPHg/Benzene in groundwater, in parts per billion, April 13, 1993
- NS = Not sampled due to floating product



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**TPHg/BENZENE CONCENTRATIONS
IN GROUNDWATER
ARCO Station 2035
1001 San Pablo Avenue
Albany, California**

**PLATE
6**

Quarterly Groundwater Monitoring
ARCO Station 2035, Albany, California

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TABLE 1
CUMULATIVE GROUNDWATER MONITORING DATA
ARCO Station 2035
Albany, California
(Page 1 of 3)

<u>Well</u> Date	Elevation of Wellhead	Depth to Water	Elevation of Groundwater	Evidence of Product
<u>MW-1</u>				
10/29/91	41.41	11.86	29.55	None
11/07/91		10.94	30.47	None
11/14/91		10.97	30.44	None
01/19/92		10.06	31.35	None
02/19/92		8.65	32.76	None
03/19/92		8.33	33.08	None
04/21/92		9.32	32.09	None
05/12/92		9.82	31.59	None
06/12/92		10.50	30.91	None
07/15/92		10.69	30.72	None
08/07/92		10.53	30.88	None
09/08/92		11.04	30.37	None
10/26/92		11.24	30.17	None
11/23/92		10.90	30.51	None
12/16/92		9.40	32.01	None
01/13/93		7.73	33.68	None
02/22/93		7.56	33.85	None
03/25/93		8.48	32.93	None
04/13/93		8.91	32.50	None
05/22/93		9.68	31.73	None
06/17/93		9.68	31.73	None
<u>MW-2</u>				
10/29/91	40.38	11.10	29.28	None
11/07/91		11.20	29.18	None
11/14/91		11.21	29.17	None
01/19/92		10.44	29.94	None
02/19/92		8.70	31.68	None
03/19/92		8.84	31.54	None
04/21/92		9.80	30.58	None
05/12/92		10.29	30.09	None
06/12/92		10.95	29.43	None
07/15/92		11.15	29.23	None
08/07/92		11.01	29.37	None
09/08/92		11.41	28.97	None
10/26/92		11.60	28.78	None
11/23/92		7.31	33.07	None
12/16/92		9.82	30.56	None
01/13/93		8.25	32.13	None

See notes on Page 3 of 3.

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TABLE 1
CUMULATIVE GROUNDWATER MONITORING DATA
ARCO Station 2035
Albany, California
(Page 2 of 3)

Well Date	Elevation of Wellhead	Depth to Water	Elevation of Groundwater	Evidence of Product
<u>MW-2 (cont.)</u>				
02/22/93		8.25	32.13	None
03/25/93		8.82	31.56	None
04/13/93		9.30	31.08	None
05/22/93		10.57	29.81	None
06/17/93		10.25	30.13	None
<u>MW-3</u>				
10/29/91	41.44	11.62	29.82	None
11/07/91		11.52	29.92	None
11/14/91		11.50	29.94	None
01/19/92		10.56	30.88	None
02/19/92		9.52	31.92	None
03/19/92		9.01	32.43	None
04/21/92		9.70	31.74	None
05/12/92		10.29	31.15	None
06/12/92		11.26	30.18	None
07/15/92		11.28	30.16	None
08/07/92		11.15	30.29	None
09/08/92		11.70	29.74	None
10/26/92		12.15	29.29	None
11/23/92		12.55	28.89	None
12/16/92		10.15	31.29	None
01/13/93		9.12	32.32	None
02/22/93		8.18	33.26	None
03/25/93		8.57	32.87	None
04/13/93		9.55	31.89	None
05/22/93		10.56	30.88	None
06/17/93		10.41	30.70	None
<u>MW-4</u>				
01/13/93	40.33	8.05	32.28	None
02/22/93		7.58	32.75	None
03/25/93		8.27	32.06	None
04/13/93		8.54	31.79	None
05/22/93		9.52	30.81	None
06/17/93		9.53	30.80	None
<u>MW-5</u>				
01/13/93	41.84	8.22	33.62	None
02/22/93		7.92	33.92	None
03/25/93		8.67	33.17	None

See notes on Page 3 of 3.

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TABLE 1
CUMULATIVE GROUNDWATER MONITORING DATA
ARCO Station 2035
Albany, California
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Well Date	Elevation of Wellhead	Depth to Water	Elevation of Groundwater	Evidence of Product
<u>MW-5 (cont.)</u>				
04/13/93		9.18	32.66	None
05/22/93		10.12	31.72	None
06/17/93		10.03	31.81	None
<u>MW-6</u>				
01/13/93	40.13	9.84	30.29	None
02/22/93		9.94	30.19	None
03/25/93		10.68	29.45	None
04/13/93		11.12	29.01	None
05/22/93		11.74	28.39	None
06/17/93		11.75	28.38	None
<u>RW-1</u>				
10/29/91	40.33	10.85	29.48	Sheen
11/07/91		11.97	28.36	0.01
11/14/91		11.03	29.30	0.01
01/19/92		10.22*	30.11*	3.26
02/19/92		8.49*	31.84*	2.14
03/19/92		8.50*	31.83*	0.50
04/21/92		9.68*	30.65	0.03
05/12/92	40.33	10.47	29.86	Product not measured
06/12/92		11.41	28.92	Product not measured
07/15/92		11.35	28.98	None
08/07/92		10.80*	29.53*	0.02
09/08/92		10.80*	29.53*	0.62
10/26/92		11.42*	28.91*	0.04
11/23/92		10.94	29.39	Sheen
12/16/92		9.78*	30.55*	0.51
01/13/93		8.35	31.98	Product in skimmer
02/22/93		7.94*	32.39*	0.01
03/25/93		8.81	31.52	None
04/13/93		9.67**	NC**	Product not measured
05/22/93		10.04	30.29	Sheen
06/17/93		10.26*	30.07*	0.01 in bailer

Depth-to-water measurements in feet below the top of the well casing.

*Adjusted water level due to product. The recorded thickness of the floating product was multiplied by 0.80 to obtain an approximate value for the displacement of water by the floating product. This approximate displacement value was then subtracted from the measured depth to water to obtain a calculated depth to water. These calculated groundwater depths were subtracted from surveyed wellhead elevations to obtain the adjusted groundwater elevations.

**Well contained product of unknown thickness. Groundwater elevation could not be corrected, therefore it was not used in gradient evaluation.

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TABLE 2
CUMULATIVE RESULTS OF LABORATORY ANALYSES OF WATER SAMPLES - TPHg and BTEX
ARCO Station 2035
Albany, California
(Page 1 of 2)

WELL DATE	TPHg	B	T	E	X
<u>MW-1</u>					
10/29/91	620	76	69	15	60
03/19/92	6,500	2,600	89	42	290
06/12/92	2,900	1,100	2.5	21	15
09/08/92	820	350	<5*	<5*	<5*
10/26/92	190	68	<0.5	0.6	<0.5
01/13/93	430	130	5.3	5.0	9.0
04/13/93	5,300	2,100	<20*	63	36
<u>MW-2</u>					
10/29/91	<60	2.4	4.6	0.48	2.3
03/19/92	<50	6.8	0.9	<0.5	1.1
06/12/92	<50	<0.5	<0.5	<0.5	<0.5
09/08/92	<50	<0.5	<0.5	<0.5	<0.5
10/26/92	<50	<0.5	<0.5	<0.5	<0.5
01/13/93	<50	<0.5	<0.5	<0.5	<0.5
04/13/93	<50	<0.5	<0.5	<0.5	<0.5
<u>MW-3</u>					
10/29/91	32	2.1	2.8	0.35	1.8
03/19/92	2,100	780	8.8	16	58
06/12/92	720	210	<2.5*	23	4.0
09/08/92	<50	5.3	<0.5	<0.5	<0.5
10/26/92	<50	0.6	<0.5	<0.5	<0.5
01/13/93	<50	1.1	<0.5	<0.5	<0.5
04/13/93	68	13	<0.5	1.6	1.1
<u>MW-4</u>					
01/13/93	<50	<0.5	1.3	<0.5	1.6
04/13/93	<50	<0.5	<0.5	<0.5	<0.5
<u>MW-5</u>					
01/13/93	<50	<0.5	<0.5	<0.5	<0.5
04/13/93	<50	<0.5	<0.5	<0.5	<0.5
<u>MW-6</u>					
01/13/93	<50	<0.5	<0.5	<0.5	<0.5
04/13/93	<50	<0.5	<0.5	<0.5	<0.5

See notes on Page 2 of 2

Quarterly Groundwater Monitoring
ARCO Station 2035, Albany, California

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TABLE 2
CUMULATIVE RESULTS OF LABORATORY ANALYSES OF WATER SAMPLES - TPHg and BTEX
ARCO Station 2035
Albany, California
(Page 2 of 2)

WELL DATE	TPHg	B	T	E	X
<u>RW-1</u>					
10/29/91		Not sampled--sheen			
03/19/92		Not sampled--floating product			
06/12/92		Not sampled--floating product			
09/08/92		Not sampled--floating product			
10/23/92		Not sampled--floating product			
01/13/93		Not sampled--floating product in skimmer			
04/13/93		Not sampled--floating product			
MCL:	—	1	—	680	1,750
DWAL:	—	—	100	—	—

Results in parts per billion (ppb).
 TPHg: Total petroleum hydrocarbons as gasoline using EPA Method 5030/8015/8020.
 B: benzene, T: toluene, E: ethylbenzene, X: total xylenes isomers
 BTEX: Analyzed using EPA Method 5030/8015/8020.
 <: Results reported below the laboratory detection limit.
 *: Laboratory Raised Methods Reporting Limit (MRL) due to high analyte concentration requiring sample dilution.
 MCL: State Maximum Contaminant Level (October 1990).
 DWAL: State Drinking Water Action Level (October 1990).

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TABLE 3
CUMULATIVE RESULTS OF LABORATORY ANALYSES OF WATER SAMPLES
- TPHd, TOG, VOC, BNAs, PCB and Metals
ARCO Station 2035
Albany, California

WELL DATE	TPHd	TOG	VOC	BNAs	PCB	Cd	Cr	Pb	Ni	Zn
MW-3										
10/29/91	NA	<5,000	ND ^a	NA	NA	<10	<10	<5	<50	45
03/19/92	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
06/12/92	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
09/08/92	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10/26/92	<50	(600)[600]	ND ^b	NA	NA	NA	NA	NA	NA	NA
12/01/92	NA	NA	NA	ND ^c	ND ^d	NA	NA	NA	NA	NA
01/13/93	NA	(780)[1,100]	NA	NA	NA	NA	NA	NA	NA	NA
04/13/93	NA	(<0.5)[<0.5]	NA	NA	NA	NA	NA	NA	NA	NA
MCL:	—	—	—	—	—	10	50	50	—	—

Results in parts per billion (ppb).

- TPHd: Total petroleum hydrocarbons as diesel by EPA Method 3510/California DHS LUFT Method.
 TOG: Total oil and grease by Standard Method 5520B&F or 5520C (780) and 5520F [1.100].
 VOC: Volatile organic compounds by EPA Method 624.
 BNAs: Semivolatile organic compounds by EPA Method 3510/8270.
 PCB: Polychlorinated biphenyls by EPA Method 3510/8080.
 Cd: Cadmium by EPA Method 200.7.
 Cr: Chromium by EPA Method 200.7.
 Ni: Nickel by EPA Method 200.7.
 Zn: Zinc by EPA Method 200.7.
 Pb: Lead by EPA Method 3010.
 NA: Not analyzed.
 <: Results reported below the laboratory detection limit.
 ND: Not detected; detection limit varied according to analyte.
^a: All 37 compounds were nondetectable except for toluene (3.0 ppb).
^b: All 41 compounds analyzed were nondetectable.
^c: All 34 compounds analyzed were nondetectable.
^d: All 7 compounds analyzed were nondetectable.
 MCL: State Maximum Contaminant Level (October 1990).

Quarterly Groundwater Monitoring
ARCO Station 2035, Albany, CaliforniaTABLE 4
APPROXIMATE CUMULATIVE PRODUCT RECOVERED
ARCO Station 2035
Albany, California

<u>Well</u> <u>Date</u>	<u>Product Thickness</u> <u>(feet)</u>	<u>Product Recovered</u> <u>(gallons)</u>
YEAR: 1992		
<u>RW-1</u>		
01/29/92	3.35	5.0
02/28/92	2.58	3.8
03/12/92	1.28	2.0
03/25/92	0.91	0.5
05/29/92	0.23	0.3
06/08/92	0.60	0.5
06/30/92	0.15	0.25
07/23/92	0.27	0.5
08/05/92	0.45	0.25
08/17/92	0.50	0.5
09/10/92	0.75	0.5
09/22/92	0.80	1.2
10/06/92	0.65	1.0
10/21/92	0.50	1.0
11/04/92	0.48	1.5
11/17/92	0.40	0.75
12/02/92	0.41	0.75
12/17/92	0.39	1.0
12/29/92	0.53	1.0
	1992 TOTAL:	22.30
YEAR: 1993		
<u>RW-1</u>		
01/19/92	0.01	0.5
01/29/93	0.01	0.5
02/11/93	sheen	0
03/03/93	sheen	0
03/11/93	sheen	0
03/23/93	sheen	0
04/07/93	sheen	0
04/22/93	sheen	0
05/06/93	sheen	0
06/21/93	sheen	0
	1993 TOTAL:	0.5
	TOTAL 1992 and 1993:	23.3

Product measured and bailed by RESNA personnel.

**APPENDIX A
EMCON'S FIELD REPORTS;
SUMMARY OF GROUNDWATER MONITORING DATA,
CERTIFIED ANALYTICAL REPORTS WITH CHAIN-OF-CUSTODY, AND
WATER SAMPLE FIELD DATA SHEETS**

RESNA'S FIELD REPORTS



EMCON Associates

1938 Junction Avenue • San Jose, California 95131-2102 • (408) 453-0719 • Fax (408) 453-0451

Date April 28, 1993

Project OG70-017.01

To:
Mr. Joel Coffman
RESNA/ Applied Geosystems
3315 Almaden Expressway, Suite 34
San Jose, California 95118

We are enclosing:

Copies	Description
<u>1</u>	<u>Depth To Water / Floating Product Survey Results</u>
<u>1</u>	<u>Summary of Groundwater Monitoring Data</u>
<u>1</u>	<u>Certified Analytical Reports with Chain-of-Custody</u>
<u>7</u>	<u>Water Sample Field Data Sheets</u>

For your: X Information Sent by: X Mail

Comments:

Enclosed are the data from the second quarter 1993 monitoring event at ARCO service station 2035, 1001 San Pablo Avenue, Albany, California. Groundwater monitoring is conducted consistent with applicable regulatory guidelines. Please call if you have any questions: (408) 453-2266.

Reviewed by:



Jim Butera *JB*

Robert C Porter
Robert Porter, Senior Project Engineer.



FIELD REPORT
DEPTH TO WATER/FLOATING PRODUCT SURVEY

PROJECT # : 0G70-017.01

STATION ADDRESS : 1001 San Pablo Ave. Albany, CA

DATE : 4/13/93

ARCO STATION # : 2035

FIELD TECHNICIAN : Reichleffer/Horton

DAY : Tuesday

DTW Order	WELL ID	Well Box Seal	Well Lid Secure	Gasket	Lock	Locking Well Cap	FIRST DEPTH TO WATER (feet)	SECOND DEPTH TO WATER (feet)	DEPTH TO FLOATING PRODUCT (feet)	FLOATING PRODUCT THICKNESS (feet)	WELL TOTAL DEPTH (feet)	COMMENTS
1	MW-4	good	yes	na	3259	yes	8.54	8.54	ND	ND	25.1	— needs lock
2	MW-5	good	yes	na	delphin	yes	9.18	9.18	ND	ND	24.3	needs lock
3	MW-6	good	yes	na	delphin	yes	11.12	11.12	ND	ND	24.3	needs lock
4	MW-2	good	yes	na	3259	yes	9.30	9.30	ND	ND	28.7	—
5	MW-3	good	yes	na	3259	yes	9.55	9.55	ND	ND	33.0	odor
6	MW-1	good	yes	na	3259	yes	8.91	8.91	ND	ND	29.6	odor
7	RW-1	good	yes	na	none	slip	9.67	9.67	*	*	25.6	* skimmer contained small amount of product skimmer was dirty, unable to use in order to take measurement

SURVEY POINTS ARE TOP OF WELL CASINGS

Summary of Groundwater Monitoring Data
 Second Quarter 1993
 ARCO Service Station 2035
 1001 San Pablo Avenue, Albany, California
 micrograms per liter (µg/l) or parts per billion (ppb)

Well ID and Sample Depth	Sampling Date	Depth To Water (feet)	Floating Product Thickness (feet)	TPH ¹ as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)	Hydrocarbons IR (ppm)*	Total Oil and Grease (ppm)*
MW-1(29)	04/13/93	8.91	ND. ²	5,300.	2,100.	<20.	63.	36.	NR. ³	NR.
MW-2(28)	04/13/93	9.30	ND.	<50.	<0.5	<0.5	<0.5	<0.5	NR.	NR.
MW-3(33)	04/13/93	9.55	ND.	68.	13.	<0.5	1.6	1.1	<0.5	<0.5
MW-4(25)	04/13/93	8.54	ND.	<50.	<0.5	<0.5	<0.5	<0.5	NR.	NR.
MW-5(24)	04/13/93	9.18	ND.	<50.	<0.5	<0.5	<0.5	<0.5	NR.	NR.
MW-6(24)	04/13/93	11.12	ND.	<50.	<0.5	<0.5	<0.5	<0.5	NR.	NR.
RW-1	04/13/93	9.67	FP. ⁴	FP.	FP.	FP.	FP.	FP.	NR.	NR.
FB-15	04/13/93	NA. ⁶	NA.	<50.	<0.5	<0.5	<0.5	<0.5	NR.	NR.

1. TPH. = Total petroleum hydrocarbons

2. ND. = Not detected

3. NR. = Not required, well was not analyzed for the above listed parameter

4. FP. = Floating product was detected in well, not sampled

5. FB. = Field blank

6. NA. = Not applicable

* = Reported as parts-per-million



April 27, 1993

Service Request No: SJ93-0502

Jim Butera
EMCON Associates
1921 Ringwood Avenue
San Jose, CA 95131

Re: EMCON Project No. 0G70-017.01
ARCO Facility No. 2035

Dear Mr. Butera:

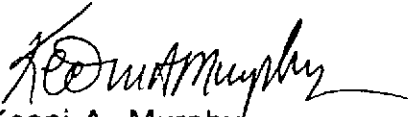
Attached are the results of the water samples submitted to our lab on April 13, 1993. For your reference, these analyses have been assigned our service request number SJ93-0502.


All analyses were performed consistent with our laboratory's quality assurance program. All results are intended to be considered in their entirety, and CAS is not responsible for use of less than the complete report. Results apply only to the samples analyzed.

Please call if you have any questions.

Respectfully submitted:

COLUMBIA ANALYTICAL SERVICES, INC.


Keoni A. Murphy
Laboratory Manager


Annelise J. Bazar
Regional QA Coordinator

KAM/ajb

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON Associates
 Project: EMCON Project No. 0G70-017.01
 ARCO Facility No. 2035

Date Received: 04/13/93
 Service Request No.: SJ93-0502
 Sample Matrix: Water

Inorganic Parameters
 mg/L (ppm)

Sample Name: MW-3 (33) Method Blank
 Date Sampled: 04/13/93

<u>Analyte</u>	<u>Method</u>	<u>MRL</u>		
Total Oil and Grease	SM 5520C	0.5	ND	ND
Hydrocarbons, IR	SM 5520F	0.5	ND	ND

MRL Method Reporting Limit
 ND None Detected at or above the method reporting limit
 SM *Standard Methods for the Examination of Water and Wastewater*, 17th Ed., 1989

Approved by: Keonut Murphy Date: April 27, 1993

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON Associates
Project: EMCON Project No. 0G70-017.01
ARCO Facility No. 2035

Date Received: 04/13/93
Service Request No.: SJ93-0502
Sample Matrix: Water

BTEX and TPH as Gasoline
EPA Methods 5030/8020/California DHS LUFT Method
µg/L (ppb)

Sample Name: MW-1 (29) MW-2 (28) MW-3 (33)
Date Analyzed: 04/22/93 04/21/93 * 04/21/93 *

Analyte	MRL			
Benzene	0.5	2,100.	ND	13.
Toluene	0.5	<20. **	ND	ND
Ethylbenzene	0.5	63.	ND	1.6
Total Xylenes	0.5	36.	ND	1.1
TPH as Gasoline	50	5,300	ND	68.

TPH Total Petroleum Hydrocarbons
MRL Method Reporting Limit
ND None Detected at or above the method reporting limit
* This sample was part of the analytical batch started on April 21, 1993. However, it was analyzed after midnight so the actual date analyzed is April 22, 1993.
** Raised MRL due to high analyte concentration requiring sample dilution.

Approved by:

K. O. Murphy

Date:

April 27, 1993

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON Associates
 Project: EMCON Project No. 0G70-017.01
 ARCO Facility No. 2035

Date Received: 04/13/93
 Service Request No.: SJ93-0502
 Sample Matrix: Water

BTEX and TPH as Gasoline
 EPA Methods 5030/8020/California DHS LUFT Method
 µg/L (ppb)

Sample Name:	<u>MW-4 (25)</u>	<u>MW-5 (24)</u>	<u>MW-6 (24)</u>
Date Analyzed:	04/21/93 *	04/21/93 *	04/21/93 *

<u>Analyte</u>	<u>MRL</u>			
Benzene	0.5	ND	ND	ND
Toluene	0.5	ND	ND	ND
Ethylbenzene	0.5	ND	ND	ND
Total Xylenes	0.5	ND	ND	ND
TPH as Gasoline	50	ND	ND	ND

TPH Total Petroleum Hydrocarbons

MRL Method Reporting Limit

ND None Detected at or above the method reporting limit

* This sample was part of the analytical batch started on April 21, 1993. However, it was analyzed after midnight so the actual date analyzed is April 22, 1993.

Approved by: *K. Conroy* Date: *April 22, 1993*

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: EMCON Associates
 Project: EMCON Project No. 0G70-017.01
 ARCO Facility No. 2035

Date Received: 04/13/93
 Service Request No.: SJ93-0502
 Sample Matrix: Water

BTEX and TPH as Gasoline
 EPA Methods 5030/8020/California DHS LUFT Method
 µg/L (ppb)

Sample Name: FB-1 Method Blank Method Blank
 Date Analyzed: 04/21/93 * 04/21/93 04/22/93

<u>Analyte</u>	<u>MRL</u>			
Benzene	0.5	ND	ND	ND
Toluene	0.5	ND	ND	ND
Ethylbenzene	0.5	ND	ND	ND
Total Xylenes	0.5	ND	ND	ND
TPH as Gasoline	50	ND	ND	ND

TPH Total Petroleum Hydrocarbons

MRL Method Reporting Limit

ND None Detected at or above the method reporting limit

* This sample was part of the analytical batch started on April 21, 1993. However, it was analyzed after midnight so the actual date analyzed is April 22, 1993.

Approved by: *Kevin Murphy* Date: *April 27, 1993*

10/1/01

APPENDIX A
LABORATORY QC RESULTS

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON Associates
Project: EMCON Project No. OG70-017.01
Arco Facility No. 2035

Date Received: 04/13/93
Service Request No.: SJ93-0502
Sample Matrix: Water

Continuing Calibration Summary
Inorganics
SM5520
mg/L

<u>Analyte</u>	<u>True Value</u>	<u>Result</u>	<u>Percent Recovery</u>	<u>CAS Percent Recovery Acceptance Criteria</u>
Hydrocarbons, IR	100.	109.	109.	90-100

Approved by:

Kenneth Murphy

Date:

April 27, 1993

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON Associates
 Project: EMCON Project No. 0G70-017.01
 Arco Facility No. 2035

Date Received: 04/13/93
 Service Request No.: SJ93-0502
 Sample Matrix: Water

Matrix Spike Summary
 Inorganic Parameters
 mg/L (ppm)

Sample Name: MW-3 (33)
 Date Sampled: 04/13/93

Percent Recovery

<u>Analyte</u>	<u>Spike Level</u>	<u>Sample Result</u>	<u>Spike Result</u>		<u>Percent Recovery</u>		<u>CAS Acceptance Criteria</u>
			<u>MS</u>	<u>DMS</u>	<u>MS</u>	<u>DMS</u>	
Total Oil and Grease	8.0	ND	6.5	6.7	81.	84.	56-151
Hydrocarbons, IR	8.0	ND	6.9	6.9	86.	86.	56-151

ND None Detected at or above the method reporting limit

Approved by:

Keonut Murphy

Date:

April 27, 1993

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON Associates
Project: EMCON Project No. 0G70-017.01
ARCO Facility No. 2035

Date Received: 04/13/93
Service Request No.: SJ93-0502
Sample Matrix: Water

Initial Calibration Verification
BTEX and TPH as Gasoline
EPA Methods 5030/8020/DHS LUFT Method
 $\mu\text{g/L}$ (ppb)

Date Analyzed: 04/21/93

<u>Analyte</u>	<u>True Value</u>	<u>Result</u>	<u>Percent Recovery</u>	<u>CAS Percent Recovery Acceptance Criteria</u>
Benzene	25.	23.6	95.	85-115
Toluene	25.	24.6	98.	85-115
Ethylbenzene	25.	23.7	95.	85-115
Total Xylenes	75.	70.2	94.	85-115
TPH as Gasoline	250.	235.	94.	90-110

TPH Total Petroleum Hydrocarbons

Approved by: K. O'Connell Murphy

Date: April 27, 1993

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: EMCON Associates
Project: EMCON Project No. OG70-017.01
ARCO Facility No. 2035

Date Received: 04/13/93
Service Request No.: SJ93-0502
Sample Matrix: Water

Surrogate Recovery Summary
BTEX and TPH as Gasoline
EPA Methods 5030/8020/California DHS LUFT Method

<u>Sample Name</u>	<u>Date Analyzed</u>	<u>Percent Recovery</u> <i>α,α,α-Trifluorotoluene</i>
MW-1 (29)	04/22/93	94.
MW-2 (28)	04/21/93	89.
MW-3 (33)	04/21/93	92.
MW-4 (25)	04/21/93	89.
MW-5 (24)	04/21/93	89.
MW-6 (24)	04/21/93	91.
FB-1	04/21/93	89.
MS	04/21/93	94.
DMS	04/21/93	92.
Method Blank	04/21/93	91.
Method Blank	04/22/93	89.

CAS Acceptance Criteria 70-130

TPH Total Petroleum Hydrocarbons

Approved by:

Kevin Murphy

Date:

April 27, 1993

COLUMBIA ANALYTICAL SERVICES, INC.

QA/OC Report

Client: EMCON Associates
 Project: EMCON Project No. 0G70-017.01
 ARCO Facility No. 2035

Date Received: 04/13/93
 Service Request No.: SJ93-0502
 Sample Matrix: Water

Matrix Spike/Duplicate Matrix Spike Summary

BTE
 EPA Methods 5030/8020
 µg/L (ppb)

Date Analyzed: 04/21/93

Percent Recovery

Analyte	Spike Level	Sample Result	Spike Result		Percent Recovery		CAS Acceptance Criteria
			MS	DMS	MS	DMS	
Benzene	250.	48.6	296.	300	99.	101.	76-122
Toluene	250.	2.8	268.	274.	106.	108.	75-127
Ethylbenzene	250.	29.8	291.	298.	104.	107.	70-135

Approved by: K. D. M. M. M. M. M.

Date: April 27, 1993

ARCO Products Company
Division of AtlanticRichfieldCompany

ARCO Facility no. **2035** City (Facility) **ALBANY**
 ARCO engineer **Kyle Chvishe** Telephone no. (ARCO) **571-2434**
 Consultant name **EMCON ASSOCIATES** Address (Consultant) **1938 Junction Ave San Jose**

Task Order No. **EMCGC-92-1**

Project manager (Consultant) **JIM BUTERA**
 Telephone no. (Consultant) **453-0719**
 Fax no. (Consultant) **453-0452**

Chain of Custody

Laboratory name **CAS**
 Contract number **07077**

Sample ID	Lab no.	Container no.	Matrix			Preservation		Sampling date	Sampling time	BTEX EPA 802/EPA 8020	BTEX/TPH EPA M62/8020/8015	TPH Modified 8015 Gas <input type="checkbox"/> Diesel <input type="checkbox"/> 413.1 <input type="checkbox"/> 413.2 <input type="checkbox"/>	TPH EPA 418.1/SM503E	EPA 601/8010	EPA 624/8240	EPA 625/8270	TCLP <input type="checkbox"/> VOA <input type="checkbox"/> VOA <input type="checkbox"/> Semi <input type="checkbox"/>	CERCLA Metals EPA 6010/7000 TLC <input type="checkbox"/> STLC <input type="checkbox"/>	Lead Org./DHS <input type="checkbox"/> Lead EPA 7420/7421 <input type="checkbox"/>	Method of shipment
			Soil	Water	Other	Ice	Acid													
MW-1(29)	1-2	2	X	X		X	4/13/93	13:25	X											Sampler will deliver
MW-2(28)	3-4	2	X	X		X	4/13/93	12:28	X											lowest possible
MW-3(33)	5-10	0	X	X		X	4/13/93	13:00	X											
MW-4(25)	11-12	2	X	X		X	4/13/93	11:15	X											AS
MW-5(24)	13-14	2	X	X		X	4/14/93	11:35	X											Normal
MW-6(24)	15-16	2	X	X		X	4/13/93	12:05	X											Remarks
AP-1		2	X	X		X			X											2-40 ml VOA's
FB-1	17-18	2	X	X		X	4/13/93	11:18	X											0570-017.01
																				4 liter HCl GLASS
																				Lab number S592-0502
Condition of sample: OK										Temperature received: cool										
Relinquished by sampler Kyle Chvishe										Received by [Signature]										
Relinquished by [Signature]										Received by [Signature]										
Relinquished by [Signature]										Received by [Signature]										

Distribution: White copy — Laboratory; Canary copy — ARCO Environmental Engineering; Pink copy — Consultant



WATER SAMPLE FIELD DATA SHEET

Rev. 2, 5/91

EMCON ASSOCIATES

PROJECT NO: OC70-017.01

SAMPLE ID: MW-1 (29)

PURGED BY: Horton/Reichelderfer

CLIENT NAME: ARCO # 2035

SAMPLED BY: ↓

LOCATION: Albany, CA

TYPE: Ground Water Surface Water _____ Treatment Effluent _____ Other _____

CASING DIAMETER (inches): 2 _____ 3 _____ 4 4.5 _____ 6 _____ Other _____

CASING ELEVATION (feet/MSL): <u>NR</u>	VOLUME IN CASING (gal.): <u>13.51</u>
DEPTH TO WATER (feet): <u>8.91</u>	CALCULATED PURGE (gal.): <u>40.55</u>
DEPTH OF WELL (feet): <u>29.6</u>	ACTUAL PURGE VOL. (gal.): <u>41.0</u>

DATE PURGED: <u>4/13/93</u>	Start (2400 Hr) <u>13:15</u>	End (2400 Hr) <u>13:22</u>
DATE SAMPLED: <u>4/13/93</u>	Start (2400 Hr) <u>13:24</u>	End (2400 Hr) <u>13:25</u>

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
<u>13:17</u>	<u>14</u>	<u>6.39</u>	<u>739</u>	<u>65.2</u>	<u>cloudy</u>	<u>slight</u>
<u>13:20</u>	<u>27.5</u>	<u>6.36</u>	<u>807</u>	<u>66.3</u>	<u>cloudy</u>	<u>slight</u>
<u>13:22</u>	<u>41</u>	<u>6.40</u>	<u>815</u>	<u>67.2</u>	<u>brown</u>	<u>mod.</u>
_____	_____	_____	_____	_____	_____	_____

D. O. (ppm): NR ODOR: strong _____
(COBALT 0 - 100) (NTU 0 - 200)

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1): NR

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
<input type="checkbox"/> 2" Bladder Pump	<input type="checkbox"/> Bailer (Teflon Ⓢ)	<input type="checkbox"/> 2" Bladder Pump	<input checked="" type="checkbox"/> Bailer (Teflon Ⓢ)
<input checked="" type="checkbox"/> Centrifugal Pump	<input type="checkbox"/> Bailer (PVC)	<input type="checkbox"/> DDL Sampler	<input type="checkbox"/> Bailer (Stainless Steel)
<input type="checkbox"/> Submersible Pump	<input type="checkbox"/> Bailer (Stainless Steel)	<input type="checkbox"/> Dipper	<input type="checkbox"/> Submersible Pump
<input type="checkbox"/> Well Wizard™	<input type="checkbox"/> Dedicated	<input type="checkbox"/> Well Wizard™	<input type="checkbox"/> Dedicated
Other: _____	_____	Other: _____	_____

WELL INTEGRITY: Good LOCK #: 3259

REMARKS: _____

Meter Calibration: Date: 4/13/93 Time: 10:55 Meter Serial #: 9203 Temperature °F: _____
(EC 1000 _____ / _____) (DI _____) (pH 7 _____ / _____) (pH 10 _____ / _____) (pH 4 _____ / _____)
Location of previous calibration: MW-4

Signature: [Signature] Reviewed By: [Signature] Page 1 of ?



WATER SAMPLE FIELD DATA SHEET

Rev. 2, 5/91

EMCON ASSOCIATES

PROJECT NO: CG70-017.01

SAMPLE ID: MW-7(23)

PURGED BY: Horton/Reichelderfer

CLIENT NAME: ARCC # 2035

SAMPLED BY: ↓

LOCATION: Albany, CA

TYPE: Ground Water Surface Water _____ Treatment Effluent _____ Other _____

CASING DIAMETER (inches): 2 _____ 3 _____ 4 4.5 _____ 6 _____ Other _____

CASING ELEVATION (feet/MSL): NR

VOLUME IN CASING (gal.): 12.67

DEPTH TO WATER (feet): 9.30

CALCULATED PURGE (gal.): 38.02

DEPTH OF WELL (feet): 28.7

ACTUAL PURGE VOL. (gal.): 38.5

DATE PURGED: 4/13/93

Start (2400 Hr) 12:15

End (2400 Hr) 12:24

DATE SAMPLED: 4/13/93

Start (2400 Hr) 12:27

End (2400 Hr) 12:28

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
<u>12:19</u>	<u>13</u>	<u>6.62</u>	<u>772</u>	<u>67.3</u>	<u>cloudy</u>	<u>slight</u>
<u>12:21</u>	<u>25.5</u>	<u>6.54</u>	<u>787</u>	<u>67.6</u>	<u>brown</u>	<u>mod</u>
<u>12:24</u>	<u>38.5</u>	<u>6.58</u>	<u>778</u>	<u>67.9</u>	<u>brown</u>	<u>heavy</u>
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

D. O. (ppm): NR

ODOR: none

NR NR
(COBALT 0 - 100) (NTU 0 - 200)

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1): NR

PURGING EQUIPMENT

SAMPLING EQUIPMENT

- | | | | |
|--|---|--|--|
| <input type="checkbox"/> 2' Bladder Pump | <input type="checkbox"/> Bailer (Teflon®) | <input type="checkbox"/> 2' Bladder Pump | <input checked="" type="checkbox"/> Bailer (Teflon®) |
| <input checked="" type="checkbox"/> Centrifugal Pump | <input type="checkbox"/> Bailer (PVC) | <input type="checkbox"/> DDL Sampler | <input type="checkbox"/> Bailer (Stainless Steel) |
| <input type="checkbox"/> Submersible Pump | <input type="checkbox"/> Bailer (Stainless Steel) | <input type="checkbox"/> Dipper | <input type="checkbox"/> Submersible Pump |
| <input type="checkbox"/> Well Wizard™ | <input type="checkbox"/> Dedicated | <input type="checkbox"/> Well Wizard™ | <input type="checkbox"/> Dedicated |
| Other: _____ | | Other: _____ | |

WELL INTEGRITY: Good LOCK #: 3259

REMARKS: _____

Meter Calibration: Date: 4/13/93 Time: 10:55 Meter Serial #: 9203 Temperature °F: _____

(EC 1000 _____ / _____) (DI _____) (pH 7 _____ / _____) (pH 10 _____ / _____) (pH 4 _____ / _____)

Location of previous calibration: MW-4

Signature: [Signature]

Reviewed By: [Signature] Page 2 of 2



WATER SAMPLE FIELD DATA SHEET

Rev. 2, 5/91

EMCON
ASSOCIATES

PROJECT NO: OC70-017.01

SAMPLE ID: MW-3(33)

PURGED BY: Horton/Reichelderfer

CLIENT NAME: ARCO #2035

SAMPLED BY: ↓

LOCATION: Albany, CA

TYPE: Ground Water Surface Water _____ Treatment Effluent _____ Other _____

CASING DIAMETER (inches): 2 _____ 3 _____ 4 4.5 _____ 6 _____ Other _____

CASING ELEVATION (feet/MSL):	<u>NR</u>	VOLUME IN CASING (gal.):	<u>15.32</u>
DEPTH TO WATER (feet):	<u>9.55</u>	CALCULATED PURGE (gal.):	<u>45.96</u>
DEPTH OF WELL (feet):	<u>33.0</u>	ACTUAL PURGE VOL. (gal.):	<u>46.6 28.5</u>

DATE PURGED: 4/13/93 Start (2400 Hr) 12:44 End (2400 Hr) 12:52
 DATE SAMPLED: 4/13/93 Start (2400 Hr) 12:59 End (2400 Hr) 13:00

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
<u>12:50</u>	<u>15.5</u>	<u>6.56</u>	<u>760</u>	<u>65.0</u>	<u>cloudy</u>	<u>slight</u>
<u>12:52</u>	_____	<u>Well Dried At 28.5 Gallons</u>			_____	_____
<u>13:00</u>	<u>recharge</u>	<u>6.57</u>	<u>738</u>	<u>62.7</u>	<u>brown</u>	<u>mca</u>
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

D. O. (ppm): NR ODOR: moderate _____ NR _____
 (COBALT 0 - 100) (NTU 0 - 200)

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1): NR

PURGING EQUIPMENT

SAMPLING EQUIPMENT

- | | | | |
|--|---|--|---|
| <input type="checkbox"/> 2" Bladder Pump | <input type="checkbox"/> Bailer (Teflon) | <input type="checkbox"/> 2" Bladder Pump | <input checked="" type="checkbox"/> Bailer (Teflon) |
| <input checked="" type="checkbox"/> Centrifugal Pump | <input type="checkbox"/> Bailer (PVC) | <input type="checkbox"/> DDL Sampler | <input type="checkbox"/> Bailer (Stainless Steel) |
| <input type="checkbox"/> Submersible Pump | <input type="checkbox"/> Bailer (Stainless Steel) | <input type="checkbox"/> Dipper | <input type="checkbox"/> Submersible Pump |
| <input type="checkbox"/> Well Wizard™ | <input type="checkbox"/> Dedicated | <input type="checkbox"/> Well Wizard™ | <input type="checkbox"/> Dedicated |
| Other: _____ | | Other: _____ | |

WELL INTEGRITY: Good LOCK #: 3259

REMARKS: _____

Meter Calibration: Date: 4/13/93 Time: 10:55 Meter Serial #: 9203 Temperature °F: _____
 (EC 1000 _____ / _____) (DI _____) (pH 7 _____ / _____) (pH 10 _____ / _____) (pH 4 _____ / _____)
 Location of previous calibration: MW-4

Signature: [Signature] Reviewed By: [Signature] Page 3 of 7



WATER SAMPLE FIELD DATA SHEET

Rev. 2, 5/91

PROJECT NO: 0670-017 01

SAMPLE ID: MW-4(25)

PURGED BY: Horton / Reichelderfer

CLIENT NAME: ARCC #2035

SAMPLED BY: ↓

LOCATION: Albany, CA

TYPE: Ground Water Surface Water Treatment Effluent Other

CASING DIAMETER (inches): 2 3 4 4.5 6 Other

CASING ELEVATION (feet/MSL): NR

VOLUME IN CASING (gal.): 10.81

DEPTH TO WATER (feet): 8.54

CALCULATED PURGE (gal.): 32.45

DEPTH OF WELL (feet): 25.1

ACTUAL PURGE VOL. (gal.): 32.5

DATE PURGED: 4/13/93

Start (2400 Hr) 10:57

End (2400 Hr) 11:11

DATE SAMPLED: 4/13/93

Start (2400 Hr) 11:14

End (2400 Hr) 11:15

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
<u>11:07</u>	<u>11</u>	<u>6.07</u>	<u>620</u>	<u>65.9</u>	<u>brown</u>	<u>mod.</u>
<u>11:09</u>	<u>22</u>	<u>6.12</u>	<u>630</u>	<u>65.9</u>	<u>brown</u>	<u>heavy</u>
<u>11:11</u>	<u>32.5</u>	<u>6.14</u>	<u>650</u>	<u>65.7</u>	<u>brown</u>	<u>heavy</u>
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

D. O. (ppm): NR

ODOR: none

NR
(COBALT 0 - 100)

NR
(NTU 0 - 200)

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1): FB-1 (11:15)

PURGING EQUIPMENT

SAMPLING EQUIPMENT

2' Bladder Pump
 Centrifugal Pump
 Submersible Pump
 Well Wizard™
 Other: _____

2' Bladder Pump
 Bailer (Teflon®)
 DDL Sampler
 Dipper
 Well Wizard™
 Bailer (PVC)
 Bailer (Stainless Steel)
 Bailer (Stainless Steel)
 Submersible Pump
 Dedicated
 Other: _____

WELL INTEGRITY: Good LOCK #: 3259

REMARKS: _____

Meter Calibration: Date: 4/13/93 Time: 10:55 Meter Serial #: 9203 Temperature °F: 69.4

(EC 1000 1037 / 1000) (DI _____) (pH 7 7.02 / 17.00) (pH 10 9.96 / 11.000) (pH 4 4.001)

Location of previous calibration: _____

Signature: [Signature]

Reviewed By: [Signature]

Page 4 of 7



WATER SAMPLE FIELD DATA SHEET

Rev. 2, 5/91

EMCON ASSOCIATES

PROJECT NO: OG70-017.01

SAMPLE ID: MW-5(24)

PURGED BY: Horton/Reichelderfer

CLIENT NAME: ARCO # 2035

SAMPLED BY: ↓

LOCATION: Alhambra, CA

TYPE: Ground Water Surface Water _____ Treatment Effluent _____ Other _____

CASING DIAMETER (inches): 2 _____ 3 _____ 4 4.5 _____ 6 _____ Other _____

CASING ELEVATION (feet/MSL): <u>NR</u>	VOLUME IN CASING (gal.): <u>9.87</u>
DEPTH TO WATER (feet): <u>9.18</u>	CALCULATED PURGE (gal.): <u>29.63</u>
DEPTH OF WELL (feet): <u>24.3</u>	ACTUAL PURGE VOL. (gal.): <u>30.0</u>

DATE PURGED: <u>4/13/93</u>	Start (2400 Hr) <u>11:25</u>	End (2400 Hr) <u>11:32</u>
DATE SAMPLED: <u>4/13/93</u>	Start (2400 Hr) <u>11:34</u>	End (2400 Hr) <u>11:35</u>

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
<u>11:28</u>	<u>10</u>	<u>6.03</u>	<u>684</u>	<u>64.4</u>	<u>brown</u>	<u>mod.</u>
<u>11:30</u>	<u>20</u>	<u>6.33</u>	<u>629</u>	<u>64.0</u>	<u>brown</u>	<u>heavy</u>
<u>11:32</u>	<u>30</u>	<u>6.39</u>	<u>673</u>	<u>64.6</u>	<u>brown</u>	<u>heavy</u>
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

D. O. (ppm): NR ODOR: none COLOR: NR TURBIDITY: NR
(COBALT 0 - 100) (NTU 0 - 200)

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1): NR

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
<input type="checkbox"/> 2" Bladder Pump	<input type="checkbox"/> Bailer (Teflon &)	<input type="checkbox"/> 2" Bladder Pump	<input checked="" type="checkbox"/> Bailer (Teflon &)
<input checked="" type="checkbox"/> Centrifugal Pump	<input type="checkbox"/> Bailer (PVC)	<input type="checkbox"/> DDL Sampler	<input type="checkbox"/> Bailer (Stainless Steel)
<input type="checkbox"/> Submersible Pump	<input type="checkbox"/> Bailer (Stainless Steel)	<input type="checkbox"/> Dipper	<input type="checkbox"/> Submersible Pump
<input type="checkbox"/> Well Wizard™	<input type="checkbox"/> Dedicated	<input type="checkbox"/> Well Wizard™	<input type="checkbox"/> Dedicated
Other: _____	_____	Other: _____	_____

WELL INTEGRITY: Good LOCK #: Dolphin 6226

REMARKS: _____

Meter Calibration: Date: 4/13/93 Time: 10:55 Meter Serial #: 9203 Temperature °F: _____
 (EC 1000 _____ / _____) (DI _____) (pH 7 _____ / _____) (pH 10 _____ / _____) (pH 4 _____ / _____)
 Location of previous calibration: MW-4

Signature: [Signature] Reviewed By: JPS Page 5 of 7



WATER SAMPLE FIELD DATA SHEET

Rev. 2, 5/91

PROJECT NO: CG70-017.01
PURGED BY: Horton/Reichelderfer
SAMPLED BY: ↓

SAMPLE ID: MW-4(24)
CLIENT NAME: ARCC #2035
LOCATION: Albany, CA

TYPE: Ground Water Surface Water _____ Treatment Effluent _____ Other _____
CASING DIAMETER (inches): 2 3 _____ 4 _____ 4.5 _____ 6 _____ Other _____

CASING ELEVATION (feet/MSL): NR VOLUME IN CASING (gal.): 2.15
DEPTH TO WATER (feet): 11.12 CALCULATED PURGE (gal.): 6.45
DEPTH OF WELL (feet): 24.3 ACTUAL PURGE VOL. (gal.): 6.50

DATE PURGED: 4/13/93 Start (2400 Hr) 11:55 End (2400 Hr) 12:03
DATE SAMPLED: 4/13/93 Start (2400 Hr) 12:04 End (2400 Hr) 12:05

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
<u>12:00</u>	<u>2.5</u>	<u>6.53</u>	<u>874</u>	<u>69.3</u>	<u>brown</u>	<u>heavy</u>
<u>12:01</u>	<u>4.5</u>	<u>6.72</u>	<u>863</u>	<u>68.1</u>	<u>brown</u>	<u>heavy</u>
<u>12:03</u>	<u>6.5</u>	<u>6.81</u>	<u>877</u>	<u>67.7</u>	<u>brown</u>	<u>heavy</u>
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

D. O. (ppm): NR ODOR: none _____ NR _____
(COBALT 0 - 100) (NTU 0 - 200)

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1): NR

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
_____ 2" Bladder Pump	_____ Bailer (Teflon &)	_____ 2" Bladder Pump	<input checked="" type="checkbox"/> Bailer (Teflon &)
<input checked="" type="checkbox"/> Centrifugal Pump	_____ Bailer (PVC)	_____ DDL Sampler	_____ Bailer (Stainless Steel)
_____ Submersible Pump	_____ Bailer (Stainless Steel)	_____ Dipper	_____ Submersible Pump
_____ Well Wizard™	_____ Dedicated	_____ Well Wizard™	_____ Dedicated
Other: _____	Other: _____	Other: _____	Other: _____

WELL INTEGRITY: Good LOCK #: Dolphin 3030

REMARKS: _____

Meter Calibration: Date: 4/13/93 Time: 10:55 Meter Serial #: 9703 Temperature °F: _____
(EC 1000 _____ / _____) (DI _____) (pH 7 _____ / _____) (pH 10 _____ / _____) (pH 4 _____ / _____)
Location of previous calibration: MW-4

Signature: Steve Horton Reviewed By: JLB Page 6 of 7



EMCON ASSOCIATES

WATER SAMPLE FIELD DATA SHEET

Rev. 2, 5/91

PROJECT NO: CG70-017.01

SAMPLE ID: RW-1

PURGED BY: Horton/Reichelderfer

CLIENT NAME: ARCO #2035

SAMPLED BY: ↓

LOCATION: Albany, CA

TYPE: Ground Water Surface Water _____ Treatment Effluent _____ Other _____

CASING DIAMETER (inches): 2 _____ 3 _____ 4 _____ 4.5 _____ 6 Other _____

CASING ELEVATION (feet/MSL): <u>NR</u>	VOLUME IN CASING (gal.): <u>NA</u>
DEPTH TO WATER (feet): <u>9.67</u>	CALCULATED PURGE (gal.): <u>1</u>
DEPTH OF WELL (feet): <u>25.6</u>	ACTUAL PURGE VOL. (gal.): _____

DATE PURGED: 4/13/93 Start (2400 Hr) _____ End (2400 Hr) _____

DATE SAMPLED: 4/13/93 Start (2400 Hr) _____ End (2400 Hr) _____

TIME (2400 Hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25° C)	TEMPERATURE (°F)	COLOR (visual)	TURBIDITY (visual)
_____	_____	_____	_____	_____	_____	_____
<u>No Sample, Well Contained Product</u>						
_____	_____	_____	_____	_____	_____	_____

D. O. (ppm): NR ODOR: _____ COBALT 0 - 100: NR NTU 0 - 200: NR

FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, XDUP-1): NR

PURGING EQUIPMENT

SAMPLING EQUIPMENT

- | | | | |
|---|---|--|---|
| <input type="checkbox"/> 2" Bladder Pump | <input type="checkbox"/> Bailer (Teflon Ⓢ) | <input type="checkbox"/> 2" Bladder Pump | <input type="checkbox"/> Bailer (Teflon Ⓢ) |
| <input type="checkbox"/> Centrifugal Pump | <input type="checkbox"/> Bailer (PVC) | <input type="checkbox"/> DDL Sampler | <input type="checkbox"/> Bailer (Stainless Steel) |
| <input type="checkbox"/> Submersible Pump | <input type="checkbox"/> Bailer (Stainless Steel) | <input type="checkbox"/> Dipper | <input type="checkbox"/> Submersible Pump |
| <input type="checkbox"/> Well Wizard™ | <input type="checkbox"/> Dedicated | <input type="checkbox"/> Well Wizard™ | <input type="checkbox"/> Dedicated |
| Other: <u>NA</u> | | Other: <u>NA</u> | |

WELL INTEGRITY: Good LOCK #: ~~0000~~ none

REMARKS: 0.01 feet of Product measured in well.

Meter Calibration: Date: 4/13/93 Time: 10:55 Meter Serial #: 9203 Temperature °F: _____

(EC 1000 _____ / _____) (DI _____) (pH 7 _____ / _____) (pH 10 _____ / _____) (pH 4 _____ / _____)

Location of previous calibration: MW-4

Signature: [Signature] Reviewed By: [Signature] Page 1 of 1



EMCON Associates

1938 Junction Avenue • San Jose, California 95131-2102 • (408) 453-0719 • Fax (408) 453-0452

Date June 3, 1993

Project OG70-017.01

To:

Mr. John Young

RESNA

3315 Almaden Expressway, Suite 34

San Jose, California 95118

We are enclosing:

Copies	Description
<u>1</u>	<u>Depth To Water/Floating Product Survey Results</u>
<u> </u>	<u>May 1993 monthly water level survey, ARCO</u>
<u> </u>	<u>station 2035, 1001 San Pablo Avenue, Albany, CA</u>

For your: X Information Sent by: X Mail

Comments:

Monthly water level data for the above mentioned site are attached. Please call if you have any questions: (408) 453-2266.

Reviewed by:



Jim Butera *JB*

Robert Porter
Robert Porter, Senior Project Engineer.



FIELD REPORT
DEPTH TO WATER / FLOATING PRODUCT SURVEY

PROJECT # : 0G70-017.01

STATION ADDRESS : 1001 San Pablo Ave. Albany, CA

DATE : 5-22-13

ARCO STATION # : 2035

FIELD TECHNICIAN : K REICHELDERFER

DAY : SATURDAY

DTW Order	WELL ID	Well Box Seal	Well Lid Secure	Gasket	Lock	Locking Well Cap	FIRST DEPTH TO WATER (feet)	SECOND DEPTH TO WATER (feet)	DEPTH TO FLOATING PRODUCT (feet)	DEPTH TO FLOATING PRODUCT THICKNESS (feet)	WELL TOTAL DEPTH (feet)	COMMENTS
1	MW-2	OK	YES	OK	3259	OK	10.57	10.56	ND	NA	28.7	
2	MW-4	OK	YES	OK	3259	OK	9.52	9.52	ND	NA	25.1	
3	MW-5	OK	YES	OK	DOLPHIN	OK	10.12	10.12	ND	NA	24.3	REPLACED DOLPHIN LOCK 4/29/00
4	MW-6	OK	YES	OK	DOLPHIN	OK	11.74	11.74	ND	NA	24.3	COULDN'T CHANGE LOCK BECAUSE MY DOLPHIN KEY SNAPPED OFF
5	MW-3	OK	YES	OK	3259	OK	10.56	10.56	ND	NA	32.9	INSIDE OF LOCK (LOCK WAS RUSTY) WENT UNDER THERMURE
6	MW-1	OK	YES	OK	3259	OK	9.68	9.68	ND	NA	29.6	LWC WAS COMPLETELY OFF CASING
7	RW-1	OK	YES	OK	NO	SCUP CAP	10.04	10.04	ND	NA	25.1	SKIMMER IN WELL / STRONG ODRIR VERY DIFFICULT TO SEE "INTO" SKIMMER BECAUSE IT IS VERY DIRTY - THEREFORE I COULDN'T TELL IF SKIMMER CONTAINED PRODUCT (SHEEN ON MMC THAT HAD A VERY STRONG ODRIR

SURVEY POINTS ARE TOP OF WELL CASINGS



EMCON Associates

1938 Junction Avenue • San Jose, California 95131-2102 • (408) 453-0719 • Fax (408) 453-0452

10036.08

Date June 21, 1993
Project OG70-017.01

To:
Mr. John Young
RESNA
3315 Almaden Expressway, Suite 34
San Jose, California 95118

We are enclosing:

Copies	Description
<u>1</u>	<u>Depth To Water/Floating Product Survey Results</u>
<u> </u>	<u>June 1993 monthly water level survey, ARCO</u>
<u> </u>	<u>station 2035, 1001 San Pablo Avenue, Albany, CA</u>

For your: X Information Sent by: X Mail

Comments:
Monthly water level data for the above mentioned site are attached. Please call if you have any questions: (408) 453-2266.

Reviewed by:



Jim Butera *JB*

Robert Porter
Robert Porter, Senior Project Engineer.



FIELD REPORT
DEPTH TO WATER / FLOATING PRODUCT SURVEY

PROJECT # : 0G70-017.01

STATION ADDRESS : 1001 San Pablo Ave. Albany, CA

DATE : 6-17-93

ARCO STATION # : 2035

FIELD TECHNICIAN : REICHELDERFER / GALLEGOS DAY : THURSDAY

DTW Order	WELL ID	Well Box Seal	Well Lid Secure	Gasket	Lock	Locking Well Cap	FIRST DEPTH TO WATER (feet)	SECOND DEPTH TO WATER (feet)	DEPTH TO FLOATING PRODUCT (feet)	FLOATING PRODUCT THICKNESS (feet)	WELL TOTAL DEPTH (feet)	COMMENTS
1	MW-2	OK	15/16	OK	3259	OK	10.25	10.25	ND	NA	28.7	—
2	MW-4	OK	15/16	OK	3259	OK	9.53	9.53	ND	NA	25.0	—
3	MW-5	OK	15/16	OK	3900	OK	10.03	10.03	ND	NA	24.2	—
4	MW-6	OK	15/16	OK	3259	OK	11.75	11.75	ND	NA	24.2	INSTALLED 3900 LOCK
5	MW-3	OK	15/16	OK	3259	OK	10.41	10.41	ND	NA	32.8	—
6	MW-1	OK	15/16	OK	3259	OK	9.68	9.68	ND	NA	29.6	—
7	RW-1	OK	15/16	OK	none	Slip	10.27	10.27	ND	NA	25.0	STRONG ODOR - DIDN'T LOOK LIKE THERE WAS PRODUCT IN SKIMMER (SKIMMER IS DARK-HAI TO SEE INSIDE)
												(0.01 IN BAILEY)

SURVEY POINTS ARE TOP OF WELL CASINGS

FIELD REPORT
SKIMMER INSPECTION/FLOATING PRODUCT REMOVAL

DATE: 4-7-93
 SITE: Area 201F
 ADDRESS: Albany
 JOB #: 601036.1?
 FIELD TECHNICIAN: Edward E.

WELL NO/ TIME	ODOR (OBS)	SHEEN (H,M,S- EMUL., COLOR)	PROD (FRESH (TRANCLU- SCENT), DEGRADED (D K.BR.), AS- PHALTINE (D K, VISCOUS)	WELL ELEV	DTP	DTW	TOT. DET.	WAT. EL.
Mw-1			Shaw only/degraded Asphaltine			2.11		
PRODUCT REMOVED:								

Notes:

FIELD REPORT
SKIMMER INSPECTION/FLOATING PRODUCT REMOVAL

DATE: 4/22/93
 SITE: ARCO 2035
 ADDRESS: 1001 San Pablo Ave, Albany
 JOB #: 69036.08
 FIELD TECHNICIAN: B. Gieminoli

WELL NO/ TIME	ODOR (OBS)	SHEEN (H, M, S- EMUL., COLOR)	PROD (FRESH (TRANSCLU- SCENT), DEGRADED (D K. BR.), AS- PHALTINE (D K, VISCIOUS)	WELL ELEV	DTP	DTW	TOT. DET.	WAT. EL.
RW-1	strong	yes	no			9.50		
PRODUCT REMOVED: <u>0</u>								

Notes:

FIELD REPORT
SKIMMER INSPECTION/FLOATING PRODUCT REMOVAL

DATE: 5/6/93
 SITE: ARLO 2035
 ADDRESS: 1001 San Pablo Ave, Albany
 JOB #: 69036.08
 FIELD TECHNICIAN: B. Sieminski

WELL NO/ TIME	ODOR (OBS)	SHEEN (H, M, S-EMUL., COLOR)	PROD (FRESH (TRANSLUCENT), SCENT), DEGRADED (D K. BR.), ASPHALTINE (D K, VISCOUS)	WELL ELEV	DTP	DTW	TOT. DET.	WAT. EL.
RW-1	Strong	yes	no				9.88	
PRODUCT REMOVED: <u>None</u>								

Notes: