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Department of Toxic Substances Control

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2206056

Winston H. Hickox
Agency Secretary
California Environmental
Protection Agency

Gray Davis
Governor

FAX TRANSMITTAL

SITE MITIGATION & BROWNFIELDS REUSE PROGRAM

SITE CLEANUP OPERATIONS--GLENDALE OFFICE

TO: Betty Cavanagh DATE: 11/18/03

NAME OF COMPANY: SAIC

FAX #: 510-446-7920 TELEPHONE #: 510-466-7150

Number of pages (Including Cover Page): 13

FROM: Sandy Britt TELEPHONE #: (818)551-2130
Southern California Cleanup Operations Branch - Glendale Office

FAX #: (818) 551-2832

X Per Your Request ___ Please Comment ___ F.Y.I. ___ URGENT

COMMENTS: Some basics for now....

"The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our Web-site at www.dtsc.ca.gov."

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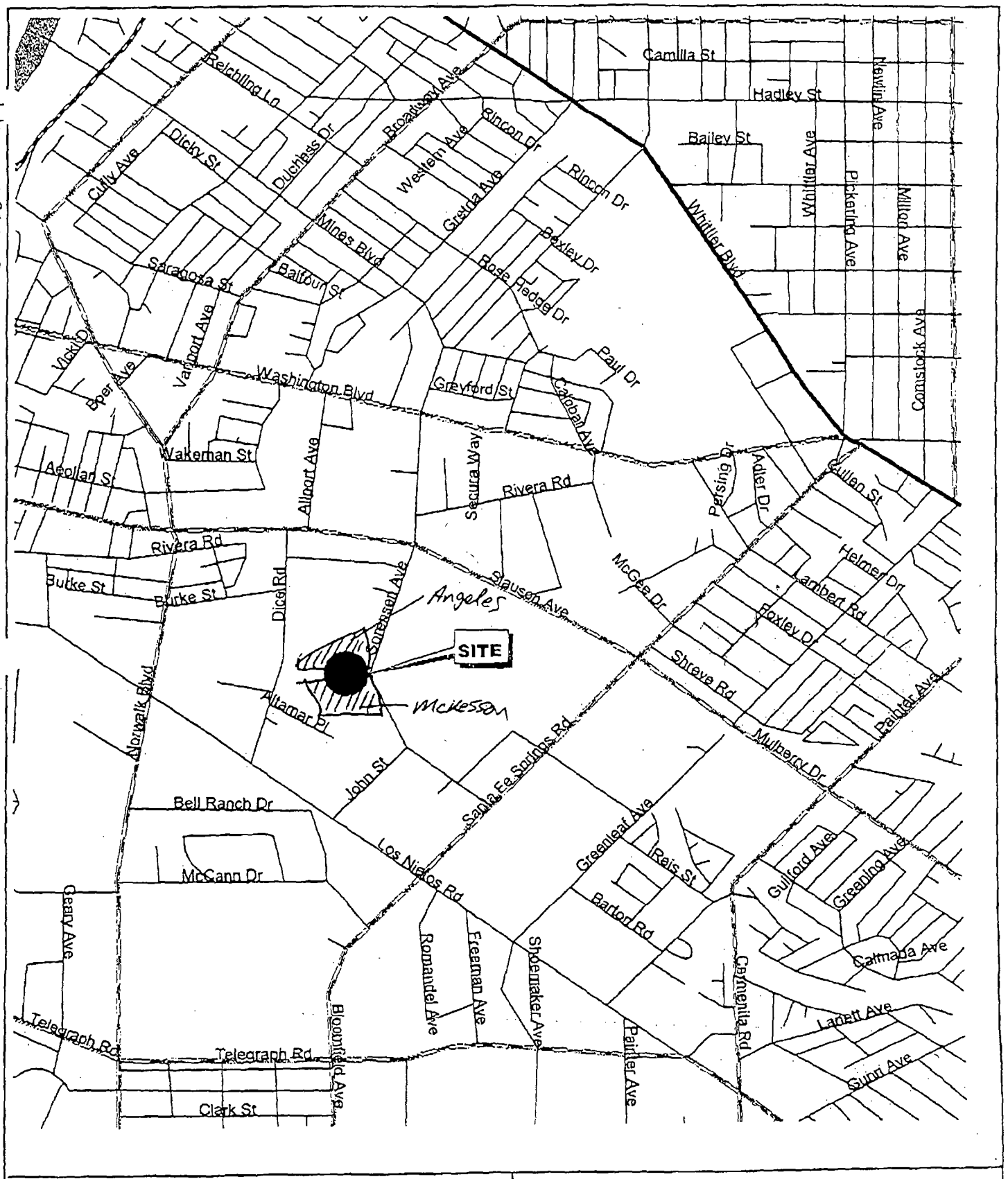


GeoSyntec Consultants

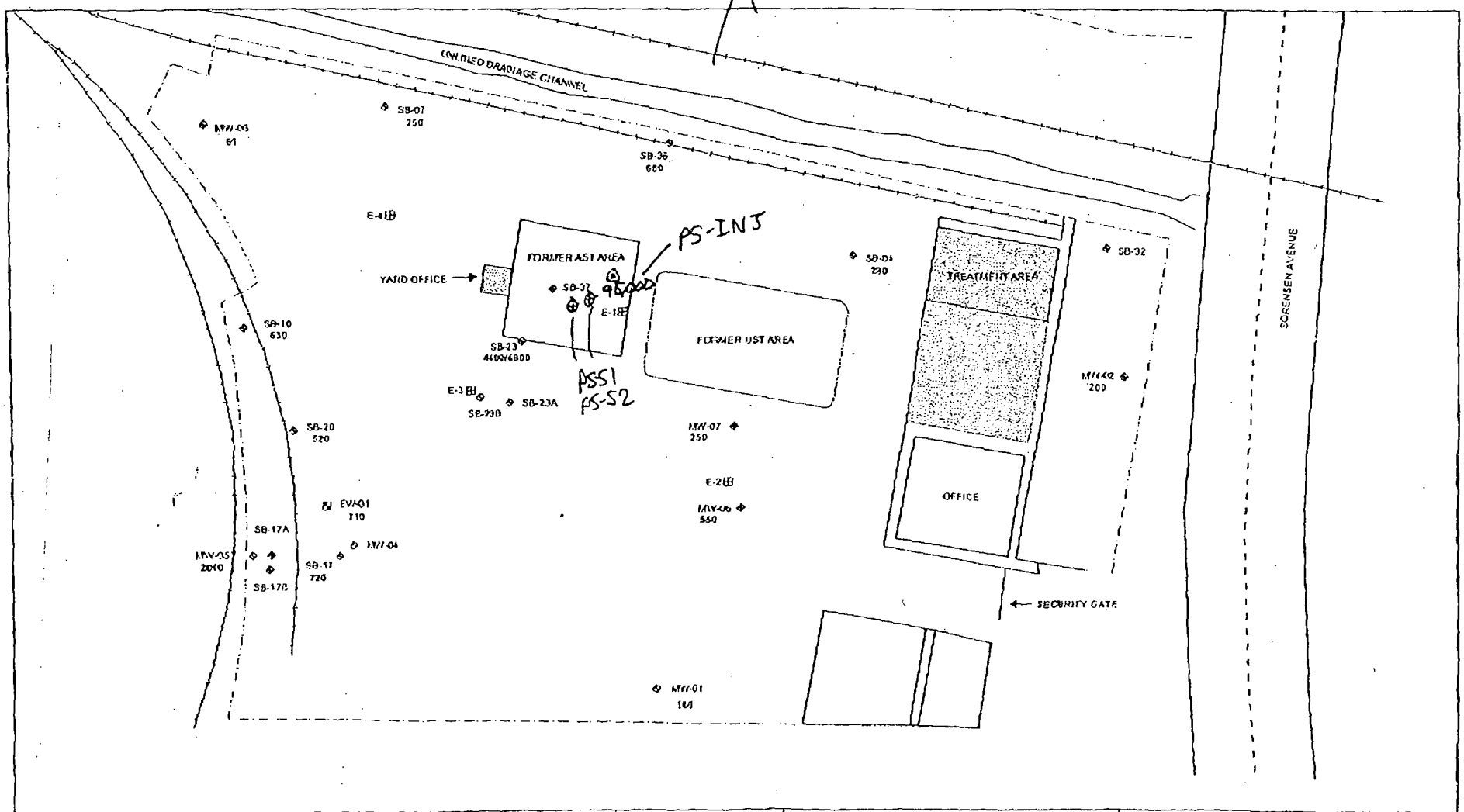
2000 0 2000 Feet

N

FIGURE 1-1
SITE LOCATION MAP
FORMER McKESSON FACILITY
SANTA FE SPRINGS, CALIFORNIA

McKesson 217

Angeles Site here



Legend

- MW-01 — well location and name
- 160 — PCE concentration (ug/L)
- Groundwater Monitoring Well
- Groundwater Extraction Well
- Vapor Extraction Well
- Concrete Surfacing
- Building
- Cyclone Fence
- Railroad Track

GeoSyntec Consultants

Project No. HA0620-09

Document No.

Date: June 2003

Figure No. 4-2

PCE (ug/L) Detected in the Upper Portion of the A1 Groundwater Zone
June 2003
FORMER McKESSON FACILITY
SANTE FE SPRINGS, CALIFORNIA

Table 4-1
Groundwater Depths And Elevations Summary
Groundwater MonitoringWell Network
Former McKesson Facility
Santa Fe Springs, California
(June 2003)

Monitoring Well	Monitoring Point Elevation (ft MSL)[1]	Screen Interval (ft btoc)[2]		Screen Interval (ft MSL)		Depth to Water June 2003 (ft btoc)	Water Level Elevation (ft MSL)
		Top	Bottom	Top	Bottom		
EW-1	152.54	54.5	73.9	98.0	78.6	45.45	107.09
MW-01	150.69	46.0	71.0	104.7	79.7	41.72	108.97
MW-02	149.44	46.0	71.0	103.4	78.4	37.75	111.69
MW-03	151.18	45.3	70.3	105.9	80.9	41.71	109.47
MW-04	150.80	65.0	75.0	85.8	75.8	41.73	109.07
MW-05	152.51	47.0	67.0	105.5	85.5	43.65	108.86
MW-06	149.91	42.0	57.0	107.9	92.9	39.69	110.22
MW-07	150.16	46.0	61.0	104.2	89.2	39.77	110.39
SB-04	148.81	43.5	63.5	105.3	85.3	37.69	111.12
SB-07	149.90	43.5	63.5	106.4	86.4	40.15	109.75
SB-10	151.60	45.0	65.0	106.6	86.6	42.37	109.23
SB-17	150.83	45.0	65.0	105.8	85.8	41.80	109.03
SB-17A	151.76	111.0	116.0	40.8	35.8	42.77	108.99
SB-17B	151.71	85.0	90.0	66.7	61.7	42.75	108.96
SB-20	151.71	43.5	63.5	108.2	88.2	42.59	109.12
SB-23	151.34	45.0	65.0	106.3	86.3	41.63	109.71
SB-23A	150.62	123.0	128.0	27.6	22.6	41.01	109.61
SB-23B	150.52	90.0	95.0	60.5	55.5	40.95	109.57
SB-32	149.78	19.6	39.6	130.2	110.2	31.31	118.47
SB-36	149.41	45.5	65.5	103.9	83.9	38.77	110.64
SB-37	151.73	21.0	31.0	130.7	120.7	DRY	DRY
PS-INJ	152.42	45.5	65.5	106.9	86.9	42.32	110.10
PS-S1	152.41	45.5	65.5	106.9	86.9	42.40	110.01
PS-S2	152.94	45.5	65.5	107.4	87.4	43.02	109.92
PIMW-1	150.62	NA	NA	NA	NA	DRY	DRY
PIMW-2	149.38	NA	NA	NA	NA	DRY	DRY
PIMW-3	151.13	NA	NA	NA	NA	NM	NM
PIMW-4 (slant well)	NA	NA	NA	NA	NA	DRY	NA

NOTES:
[1] Elevation in feet Mean Sea Level (MSL) established by BLC Surveying, Inc. on 8 November 2001 and 20 March 2003.
[2] ft btoc - feet below top of casing. Groundwater elevations measured by GeoSyntec personnel on 9 June 2003.

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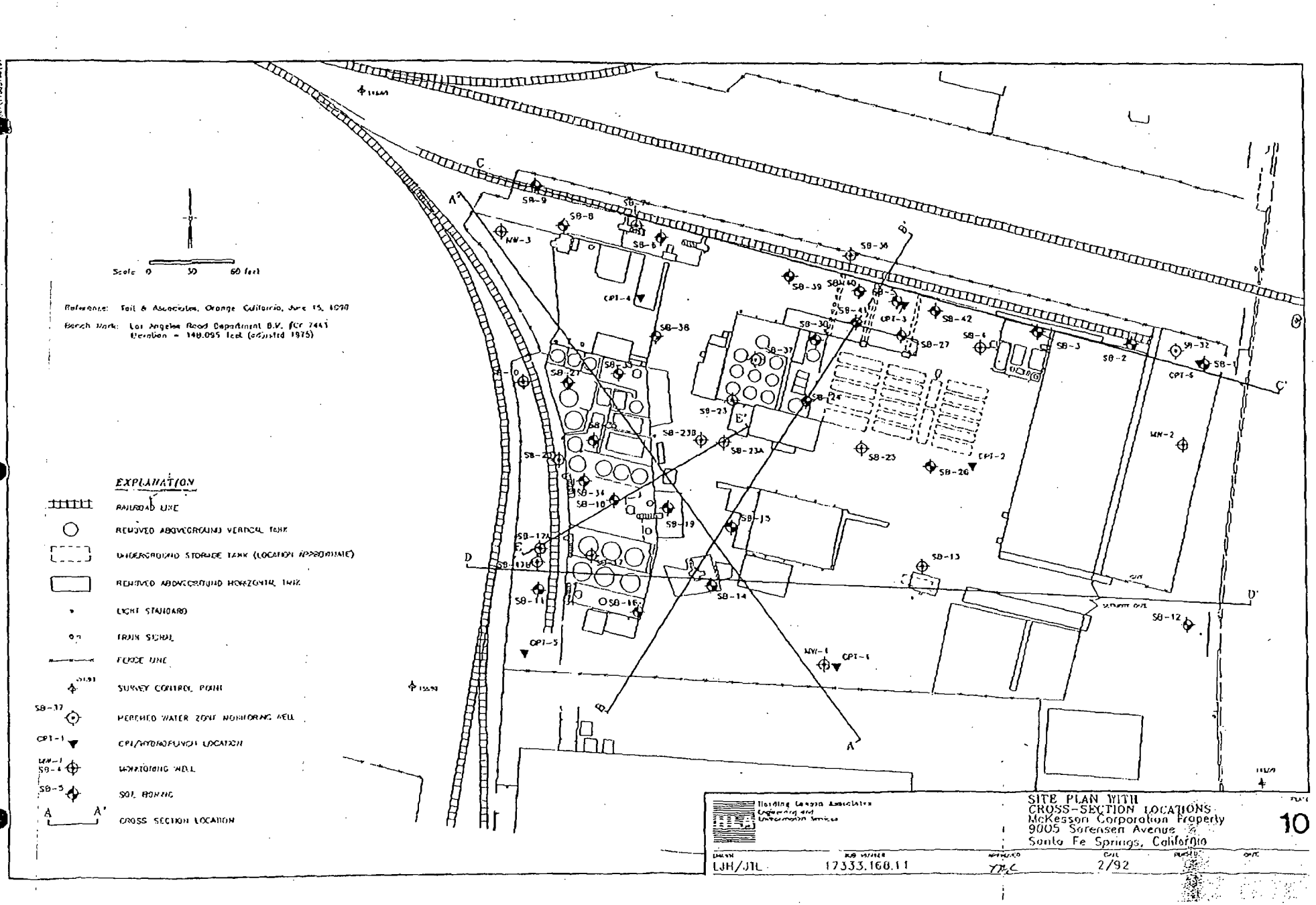

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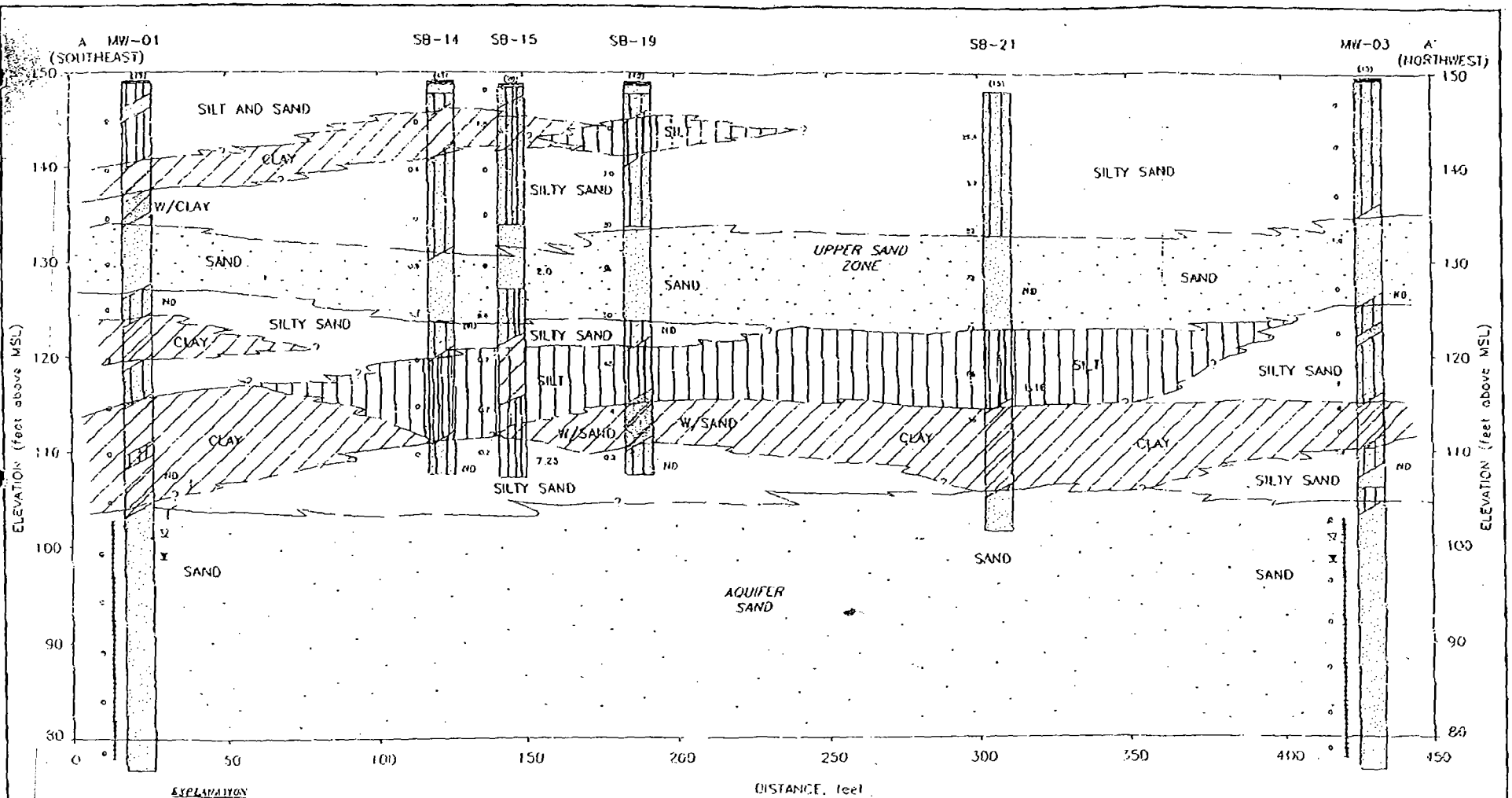
McKesson 5/7



EXPLANATION

- Geologic contact, dashed where approximate, queried where uncertain
- (18) Distance, in feet, of projection into line of cross section
- MSL Mean Sea Level
- Water level measured on 6/11/90
- Ground-water level encountered during drilling
- Screened section of well
- Field OVA reading
- 1.16 Total volatile organics (Method 8240) in ppm, ND indicates not detected

Harding Lawson Associates
Engineering and Environmental Services

CROSS SECTION A-A'
McKesson Corporation Property
Santa Fe Springs California

11

DRAWN	JOB NUMBER	APPROVED	DATE
JAV	17333,388 11	TAL	1/92

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Table 4-2
Summary of Laboratory Chemical Results - VOCs
Former McKesson Facility
Santa Fe Springs, California
Page 1 of 2

	Perched Zone		A_1 Zone																			A_2 Zone			
Sampling Point	SB-32	SB-37	MW-01	MW-03	MW-05	MW-06*	MW-05	MW-06	MW-07	SB-04	SB-07	SB-09	SB-13	SB-20	SB-23	SB-36	BW-01	PS-D01	PS-S1	PS-S3	SB-17A	SB-17B	SB-23A	SB 23B
Sampling Date	6/10/03	6/9/03	6/10/03	6/10/03	6/11/03	6/9/03	6/10/03	6/10/03	6/10/03	6/10/03	6/10/03	6/11/03	6/11/03	6/10/03	6/11/03	6/10/03	6/11/03	6/11/03	6/11/03	6/11/03	6/9/03	6/9/03	6/9/03	6/9/03
EPA Method 8260 (ug/L)																								
1,1,1,2-Tetrachloroethane	<0.5	DRY	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<10	<0.5	<1	<50	<50	<10	<0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	6.7	DRY	4.0	0.76	1.5	2.0	190	17	1.4	3.3	8.9	37	20000	45	19000	95	1300	310000	540000	510000	<0.5	<0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane	<0.5	DRY	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<10	<0.5	<1	<50	<50	<50	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichlorotrifluoroethane	9.7	DRY	6.7	8.6	1.9	11	47	59	10	11	15	21	18	23	57	45	19	490	280	150	15	0.61	16	39
1,1,2-Trichloroethane	<0.5	DRY	<0.5	<0.5	<1	<0.5	1.8	2.7	<0.5	<0.5	<0.5	0.34	24	0.39	25	0.55	1.8	180	410	470	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	550	DRY	190	10	78	0.68	940	1400	96	730	39	110	930	200	8800	780	110	5100	3000	4700	<0.5	<0.5	<0.5	0.18
1,1-Dichloroethene	110	DRY	91	45	140	15	1200	1200	119	110	110	450	3600	440	10000	790	380	14000	59000	71000	1.8	0.76	3.1	8.3
1,1-Dichloropropene	<0.5	DRY	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<10	<0.5	<1	<50	<50	<50	<0.5	<0.5	<0.5	<0.5
1,2,3-Trichlorobenzene	<0.5	DRY	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<10	<0.5	<1	<50	<50	<50	<0.5	<0.5	<0.5	<0.5
1,2,3-Trichloropropane	<1	DRY	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<10	<1	<5	<100	<100	<100	<1	<1	<1	<1
1,2,4-Trichlorobenzene	<0.5	DRY	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<10	<0.5	<1	<50	<50	<50	<0.5	<0.5	<0.5	<0.5
1,2,4-Trimethylbenzene	<0.5	DRY	<0.5	<0.5	15	<0.5	8.7	11	<0.5	<0.5	<0.5	<0.5	21	<0.5	51	83	8.1	450	200	140	<0.5	<0.5	<0.5	<0.5
1,2-Dibromo-3-Chloropropane	<1	DRY	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<50	<1	<10	<1	<1	<100	<100	<100	<1	<1	<1	<1
1,2-Dibromoethane	<0.5	DRY	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<10	<0.5	<1	<50	<50	<50	<0.5	<0.5	<0.5	<0.5
1,2-Dichlorobenzene	0.61	DRY	<0.5	<0.5	1.1	<0.5	0.44	1.3	<0.5	0.16	0.13	0.19	<10	0.31	<10	0.66	<1	<50	<50	<50	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethane	0.81	DRY	1.4	0.60	0.66	0.37	14	130	7.4	1.5	0.36	2.2	440	3.1	170	4.4	24	1510	6310	9100	0.43	<0.5	0.13	0.19
1,2-Dichloropropane	<0.5	DRY	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<10	<0.5	<1	<50	<50	<50	<0.5	<0.5	<0.1	<0.5
1,3,5-Trimethylbenzene	<0.5	DRY	<0.5	<0.5	1.3	<0.5	1.7	3.3	<0.5	<0.5	<0.5	<0.5	6.2	<0.5	14	11	1.5	110	35	33	<0.5	<0.5	<0.5	<0.5
1,3-Dichlorobenzene	<0.5	DRY	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<10	<0.5	<1	<50	<50	<50	<0.5	<0.5	<0.5	<0.5
1,3-Dichloropropane	<0.5	DRY	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<10	<0.5	<1	<50	<50	<50	<0.5	<0.5	<0.5	<0.5
1,4-Dichlorobenzene	<0.5	DRY	<0.5	<0.5	<1	<0.5	<0.5	0.11	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<10	0.080	<1	<50	<50	<50	<0.5	<0.5	<0.5	<0.5
1,4-Dioxane	39	DRY	<100	<100	<2000	<100	340	1500	<100	<100	<100	<100	<10000	850	<10000	440	<1000	9910	65000	12400	<100	<100	<100	<100
2,2-Dichloropropane	<0.5	DRY	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<10	<0.5	<1	<50	<50	<50	<0.5	<0.5	<0.5	<0.5
2-Chlorotoluene	1.1	DRY	0.18	<0.5	5.6	<0.5	3.3	2.8	0.12	0.41	0.37	0.74	<10	0.13	3.9	4.4	0.69	36	37	14	<0.5	<0.5	<0.5	<0.5
4-Chlorotoluene	<0.5	DRY	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<10	<0.5	<1	<50	<50	<50	<0.5	<0.5	<0.5	<0.1
Acetone	<20	DRY	<20	<20	<100	<20	<20	<20	<20	<20	<20	<20	3800	<20	3300	<20	58	43000	280000	180000	<20	<20	<20	<20
Benzene	6.4	DRY	0.74	0.26	3.8	<0.5	33	33	1.6	1.7	1.3	2.4	26	3.1	10	17	1.4	100	170	110	<0.5	<0.5	<0.5	<0.5
Bromobenzene	<0.5	DRY	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<10	<0.5	<1	<50	<50	<50	<0.5	<0.5	<0.5	<0.5
Bromochloromethane	<0.5	DRY	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	140	<0.5	96	<0.5	<1	920	2400	1500	<0.5	<0.5	<0.5	<0.5
Bromodichloromethane	<0.5	DRY	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<10	<0.5	<1	<50	<50	<50	<0.5	<0.5	<0.5	<0.5
Bromoform	<0.5	DRY	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<10	<0.5	<1	<50	<50	<50	<0.5	<0.5	<0.5	<0.5
Bromomethane	<1	DRY	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<10	<1	<10	<1	<5	<100	<100	<100	<1	<1	<1	<1
Carbon Tetrachloride	<0.5	DRY	<0.5	<0.5	<1	0.18	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<10	<0.5	<1	<50	<50	<50	<0.5	<0.5	0.11	0.40
Chlorobenzene	7.8	DRY	0.50	<0.5	7.3	<0.5	2.6	9.3	0.44	4.65	0.85	0.53	<10	0.17	1.5	1.8	<1	<50	<50	<50	<0.5	<0.5	<0.5	<0.5
Chloroethane	<0.5	DRY	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.93	<10	0.91	<10	3.9	<1	<50	<50	<50	<0.5	<0.5	<0.5	<0.5
Chloroform	0.13	DRY	1.1	0.78	<1	0.99	1.4	4.6	0.57	0.53	0.42	0.71	19	0.89	12	0.97	2.0	79	150	310	0.27	0.60	0.31	0.67
Chloromethane	<0.5	DRY	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<10	<0.5	<1	<50	<50	<50	<0.5	<0.5	<0.5	<0.5
cis-1,1-Dichloroethene	350	DRY	150	71	1900	5.0	1800	1400	190	330	150	310	4100	610	6100	1600	310	7600	10000	14000	0.43	0.21	0.16	0.88
cis-1,3-Dichloropropene	<0.5	DRY	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<10	<0.5	<1	<50	<50	<50	<0.5	<0.1	<0.5	<0.5
Dibromochloromethane	<0.5	DRY	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<10	<0.5	<1	<50	<50	<50	<0.5	<0.1	<0.5	<0.5
Dibromomethane	<0.5	DRY	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<10	<0.5	<1	<50	<50	<50	<0.5	<0.1	<0.5	<0.5
Dichlorodifluoromethane	<0.5	DRY	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<0.1	<10	<0.5	<1	<50	<50	<50	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	<0.5	DRY	<0.5	<0.5	0.51	<0.5	1.6	43	<0.5	<0.5	<0.5	<0.5	17	0.13	49	11	1.1	560	310	140	<0.5	<0.1	<0.5	<0.5
Hexachlorobutadiene	<0.5	DRY	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<10	<0.5	<10	<0.5	<1	<50	<50	<50	<0.5	<0.1	<0.5	<0.5

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Table 4-2
Summary of Laboratory Chemical Results - VOCs
Former McKesson Facility
Santa Fe Springs, California
Page 2 of 2

	Perched Zone		A, Zone																		A, Zone			
Sampling Point	SB-32	SB-37	MW-01	MW-02	MW-03	MW-04	MW-05	MW-06	MW-07	SB-04	SB-07	SB-10	SB-13	SB-20	SB-23	SB-26	EW-01	PS-INF	PS-S1	PS-S2	SB-17A	SB-17B	SB-23A	SB-23B
Sampling Date	6/10/03	6/9/03	6/10/03	6/10/03	6/10/03	6/9/03	6/10/03	6/10/03	6/10/03	6/10/03	6/10/03	6/11/03	6/11/03	6/10/03	6/11/03	6/10/03	6/11/03	6/11/03	6/11/03	6/11/03	6/9/03	6/9/03	6/9/03	6/9/03
EPA Method 8260 (ug/L)																								
Isopropylbenzene	2.5	DRY	0.11	<0.5	<1	<0.5	12	6.8	0.14	<0.5	0.17	0.44	3.0	2.5	3.8	16	0.76	13	6.4	5.9	<0.5	<0.5	<0.5	<0.5
Methylene Chloride	<1	DRY	<1	<1	3.5	<1	0.91	0.48	<1	<1	1.7	0.65	10000	0.41	7500	0.90	160	73000	350000	540000	<1	<1	<1	<1
Methyl-tert-butylether	0.55	DRY	0.43	0.47	0.46	0.33	0.55	1.1	0.71	0.53	0.37	0.44	<10	0.57	<10	0.49	0.35	<50	<10	<50	<0.5	<0.5	<0.5	<0.5
Naphthalene	<0.5	DRY	<0.5	<0.5	11	<0.5	4.4	12	<0.5	<0.5	1.9	<0.5	<10	2.4	<10	12	<1	190	120	170	<0.5	<0.5	<0.5	<0.5
n-Butylbenzene	<0.5	DRY	<0.5	<0.5	<1	<0.5	1.1	1.1	<0.5	<0.5	<0.5	<0.5	<10	0.43	<10	1.5	<1	<50	<50	<50	<0.5	<0.5	<0.5	<0.5
n-Propylbenzene	<0.5	DRY	<0.5	<0.5	<1	<0.5	2.0	1.2	<0.5	<0.5	<0.5	<0.5	<10	0.12	5.1	7.7	1.0	26	12	9.8	<0.5	<0.5	<0.5	<0.5
p-Isopropyltoluene	<0.5	DRY	<0.5	<0.5	<1	<0.5	0.32	0.34	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<10	0.56	<1	<50	<50	<50	<0.5	<0.5	<0.5	<0.5
sec-Butylbenzene	0.15	DRY	<0.5	<0.5	<1	<0.5	0.42	0.38	<0.5	<0.5	<0.5	<0.5	<10	0.18	<10	0.74	<1	<50	<50	<50	<0.5	<0.5	<0.5	<0.5
Styrene	<0.5	DRY	<0.5	<0.5	0.51	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<10	<0.5	<1	48	130	110	<0.5	<0.5	<0.5	<0.5
tert-Butylbenzene	<0.5	DRY	<0.5	<0.5	<1	<0.5	<0.5	0.16	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<10	<0.5	<1	<50	<50	<50	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene	42	DRY	160	200	61	89	2000	550	250	280	250	430	210	530	4400	660	710	95000	640000	600000	13	2.5	17	<0.5
Toluene	0.21	DRY	<0.5	<0.5	3.9	<0.5	6.5	75	<0.5	0.17	0.17	0.21	450	0.72	2100	7.8	17	16000	18000	16000	<0.5	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene	15	DRY	1.1	0.56	3.6	<0.5	50	91	7.7	4.6	7.4	2.1	16	10	18	69	3.3	93	280	<50	<0.5	<0.5	<0.5	<0.5
trans-1,3-Dichloropropene	<0.5	DRY	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<10	<0.5	<1	<50	<50	<50	<0.5	<0.5	<0.5	<0.5
Trichloroethene	19	DRY	34	56	18	93	550	320	33	110	310	180	240	130	3900	210	190	35000	31000	33000	47	18	53	110	1,490,525
Trichlorofluoromethane	0.83	DRY	3.1	3.8	0.46	16	13	16	1.8	4.9	5.4	5.7	42	6.4	200	10	9.8	810	1500	1100	7.6	0.37	8.2	22
Vinyl Chloride	69	DRY	11	1.2	<1	<0.5	63	810	7.0	49	4.4	12	570	5.9	460	12	67	1100	1900	930	<0.5	<0.5	<0.5	<0.5
Xylenes (total)	0.57	DRY	<1	<1	11	<1	13	60	<1	0.50	<1	0.33	50	0.95	180	45	5.9	1400	1300	1100	<1	<1	<1	<1

665,445 1,452,572

SITE MITIGATION BRANCH Fax:818-551-2832 NOV 18 2003 11:20 PM
NOV 18 2003 17:38 818 551 2832 PAGE.08

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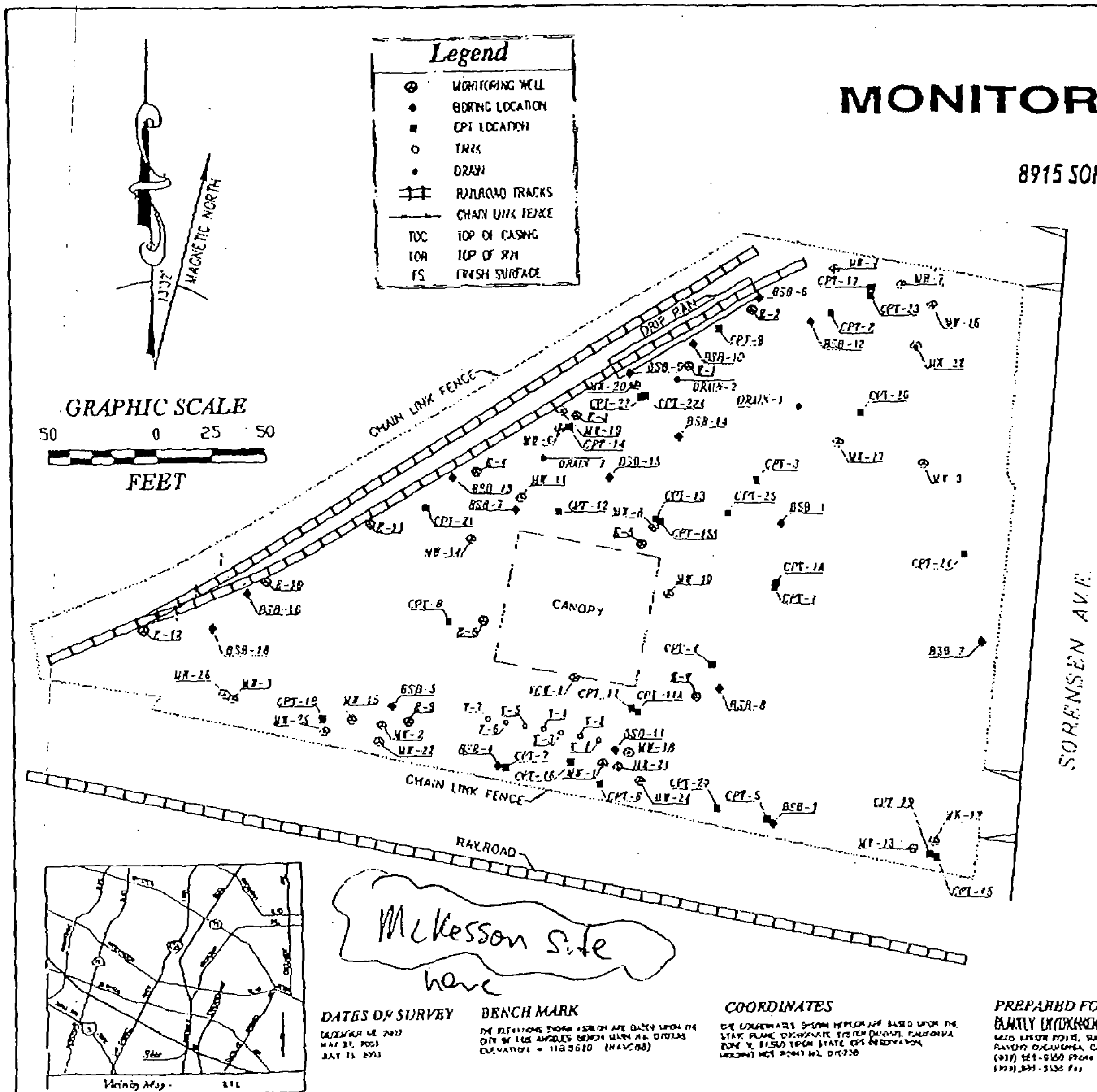
FIGURE 2
MONITORING WELL LOCATIONS

FORMER ANGELES CHEMICAL CO.
8915 SORENSEN AVENUE, SANTA FE SPRINGS, CA 90670



MONITORING WELLS						
WELL	NORTH	EAST	TOC ELEVATION	TOR ELEVATION	FS ELEVATION	NG ELEVATION
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

NOTE:
[illegible]

CPT LOCATION			
CPT	NORTH	EAST	ELEVATION
[illegible]	[illegible]	[illegible]	[illegible]

BORING LOCATION			
BORING	NORTH	EAST	ELEVATION
[illegible]	[illegible]	[illegible]	[illegible]

TANK LOCATION			
TANK	NORTH	EAST	ELEVATION
[illegible]	[illegible]	[illegible]	[illegible]

DRAIN LOCATION			
DRAIN	NORTH	EAST	ELEVATION
[illegible]	[illegible]	[illegible]	[illegible]

LICENSED LAND SURVEYOR EDWARD L. SCHENTZ L.S. 4240 Exp. 9-30-04 STATE OF CALIFORNIA

SURVEYED: MAY 27, 2003

MONITORING WELLS				
WELL	NORTH	EAST	TOC ELEVATION	TOR ELEVATION
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

SURVEYED: JULY 25, 2003

MONITORING WELLS					
WELL	NORTH	EAST	TOC ELEVATION	TOR ELEVATION	FS ELEVATION
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

SURVEYED: JULY 15, 2003

BORING LOCATION			
BORING	NORTH	EAST	ELEVATION
[illegible]	[illegible]	[illegible]	[illegible]

DATES OF SURVEY
[illegible]
MAY 27, 2003
JULY 15, 2003

BENCH MARK
THE ELEVATIONS SHOWN HEREON ARE BASED UPON THE [illegible] LOS ANGELES [illegible] ELEVATION = 113.5610 (NAVD88)

COORDINATES
THE COORDINATES SHOWN HEREON ARE BASED UPON THE STATE PLANE COORDINATE SYSTEM [illegible] CALIFORNIA ZONE V, [illegible]

PREPARED FOR
[illegible] ENVIRONMENTAL INVESTIGATIONS
[illegible]

NO.	DATE	REVISIONS	BY
0	12-23-02	SUBMITTAL	DG
1	05-30-03	[illegible]	BK
2	07-15-03	[illegible]	DG

CALVADA SURVEYING, INC.
[illegible]
SHEET 1 OF 1

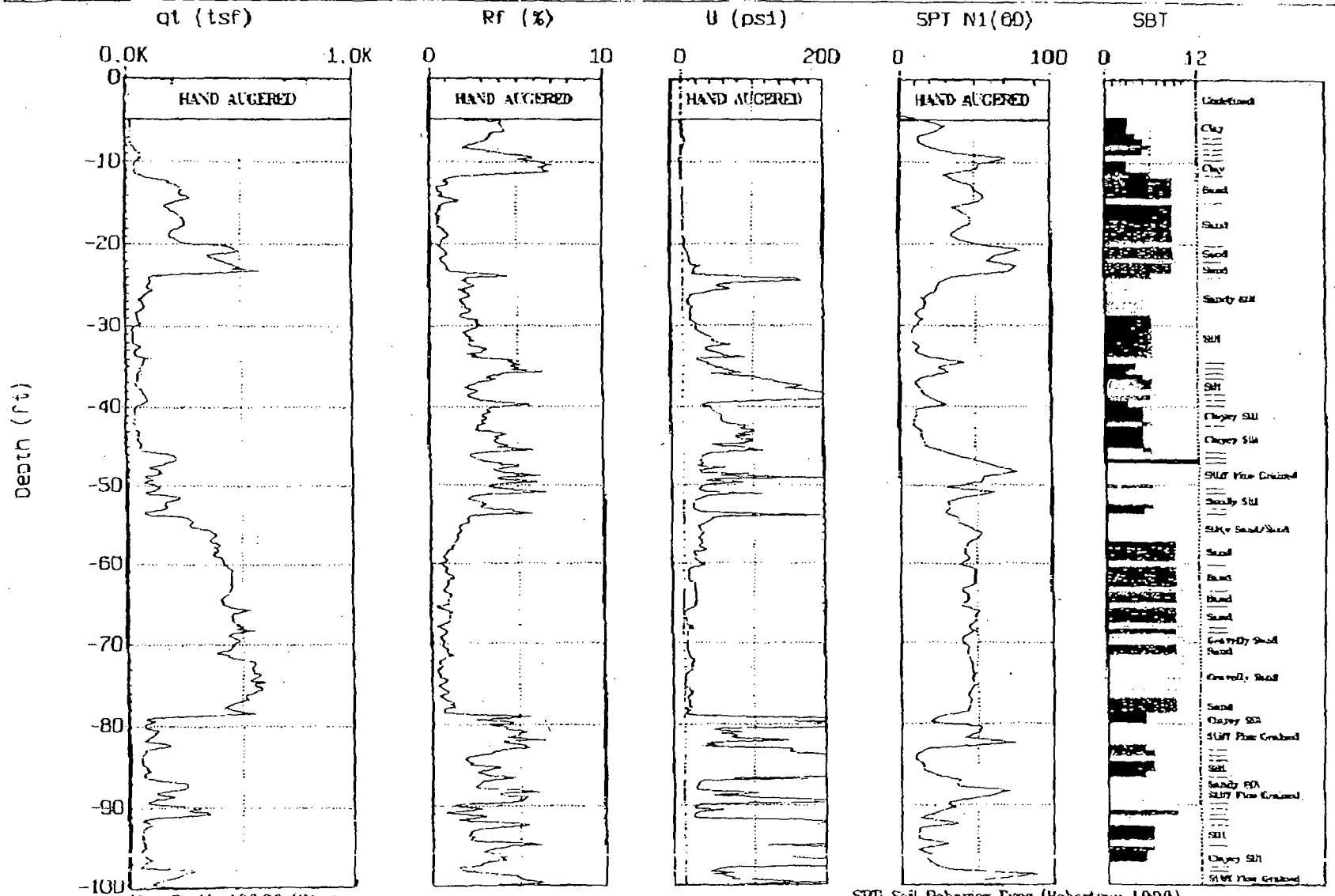
Angeles 2/5

GREGG

BLAKELY ENVIRONMENTAL

Site : ANGELES CHEMICAL
Location : CPT-18

Geologist : J. JASHIL
Date : 11:14:02 15:01



CPT 18 el. 150.87

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[redacted]

Table 1: Conductivity, pH, and TPH-gas Groundwater Sample Results using EPA Method 8015 (µg/L)

	Date	MW-1	MW-2	MW-3	MW-4	MW-6	MW-7	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-16	MW-18	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26
Screened Interval (bg)		40'-60'	30'-50'	29'-49'	17'-27'	20'-30'	34'-55'	30.5'-40.5'	30.5'-45.5	25'-40'	30'-40'	30'-40'	52'-62'	55'-65'	54'-64'	29'-46'	56'-66'	24'-48'	30'-45'	57'-67'	53'-63'	30'-40'	71'-81'	67'-77'	71'-81'	30'-40'
																46		81								
DTW	Feb-94	30.05'	28.60'	29.70'	23.35'	24.85'	24.53'																			
	Nov-00	35.62'	35.28'	36.42'	28.20'	28.52'	28.19'																			
	Oct-01	37.41'	37.91'	39.18'	20.35'	NA	28.70'																			
	Nov-01	NA	NA	NA	28.38'	28.85'	NA																			
	Feb-02	36.2'	36.39'	37.38'	28.44'	30.32'	29.21'																			
	Jun-02	37.82'	38.75'	39.18'	28.46'	NA	30.07'	30.91'	30.98'																	
	Oct-02	42.45'	43.68'	44.66'	28.48'	30.28'	34.11'	32.68'	34.70'																	
	Dec-02	NA	43.19'	44.22'	28.28'	FP only	34.03'	33.62'	34.87'	32.83'	32.71'	33.28'	41.85'	43.06'	43.83'	33.69'	40.44'	33.06'	33.33'	41.11'	42.34'					
	Mar-03	NA	41.07'	41.35'	28.36'	FP only	33.18'	32.81'	33.22'	32.44'	32.49'	33.07'	39.77'	40.95'	41.50'	32.01'	39.28'	35.36'	33.42'	39.08'	40.36'					
	Jun-03	NA	39.98'	39.95'	28.35'	FP only	30.44'	30.85'	31.10'	30.41'	30.15'	31.05'	37.85'	39.20'	39.62'	29.99'	38.41'	33.13'	38.30'	37.05'	38.50'	35.80'	34.23'	37.73'	39.22'	36.7'
Conductivity	Dec-02	NA	2011	2085	NA	NA	2710	NA	2331	2871	2886	1572	1374	1868	1821	2108	1885	2515	5977	1907	1746					
	Mar-03	NA	2094	1974	NA	NA	2768	NA	2325	4382	3793	1492	1802	1913	1818	2011	1892	2643	5912	1823	1695					
	Jun-03	NA	1763	1981	NA	NA	2882	NA	2406	4439	3245	1192	1832	1871	1851	1931	1913	2802	6017	1788	1790	2500	1200	1300	1300	3000
pH	Dec-02	NA	6.83	6.82	NA	NA	6.75	NA	6.58	6.82	6.87	7.02	6.97	6.63	6.93	6.56	6.93	6.68	7.02	6.99	6.99					
	Mar-03	NA	6.6	6.9	NA	NA	6.7	NA	7.0	6.7	6.6	7.1	7.5	7.0	7.8	6.8	7.2	6.6	6.9	7.3	7.8					
	Jun-03	NA	6.9	6.7	NA	NA	6.6	NA	6.7	6.4	6.6	6.4	6.8	6.8	6.7	6.5	6.8	6.3	6.7	6.9	6.6	NA	NA	NA	NA	NA
TPH-gas	Feb-94	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
	Nov-00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
	Oct-01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
	Feb-02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
	Jul-02	724,000	14,600	22,500	NS-FP	[redacted]	6,530	[redacted]	22,700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
	Oct-02	52,300	7,370	29,900	NS-FP	NS-FP	5,300	52,300	1,730	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
	Dec-02	NA	9,330	11,400	NS-FP	NS-FP	6,250	NS-FP	1,530	68,300	22,600	9,420	98	7,130	326	3,250	77	41,700	107,000	61	405					
	Mar-03	NA	15,600	12,200	NS-FP	NS-FP	3,470	NS-FP	2,500	65,100	24,700	1,730	<50	1,480	270	5,350	<50	83,900	177,000	52	745					
	Jun-03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,830	<50	<50	<50	28,400

DTW= Depth to Water.
NA= Not Analyzed.
NS-FP= Not Sampled Free Product present.
*= Abandoned Well.
[redacted]

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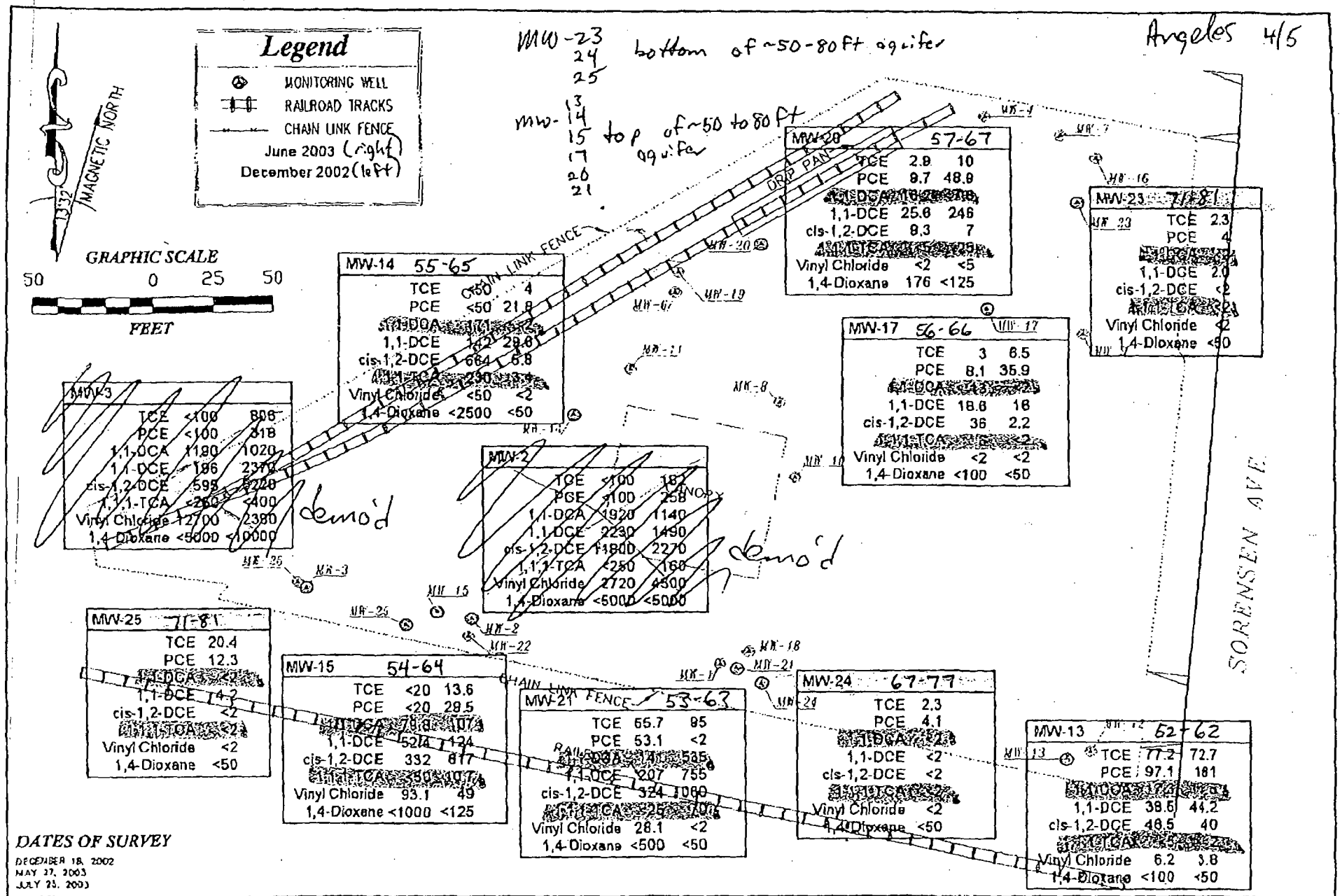
MW-23, 24, 25 bottom of ~50-80 Ft aquifer

MW-13, 14, 15, 17, 20, 21 top of ~50 to 80 Ft aquifer



DATES OF SURVEY

DECEMBER 18, 2002
MAY 27, 2003
JULY 23, 2003

Prepared by: Blakely Environmental Investigations, Inc. 4359 Phelan Road, Phelan, CA 92371	Chlorinated VOC and 1,4-Dioxane Concentrations in Gage/Hollydale Aquifer (µg/L)	FIGURE 8
	Former Angeles Chemical Company, 8915 Sorensen Ave., Santa Fe Springs, CA 90670	

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Legend

- MONITORING WELL
- RAILROAD TRACKS
- CHAIN LINK FENCE

June 2003 (right)
December 2002 (left)

MAGNETIC NORTH

GRAPHIC SCALE
50 0 25 50
FEET

MW-18 30-45

TCE	1740	3820
PCE	1240	1460
1,1-DCA	5150	6840
1,1-DCE	17700	24200
cis-1,2-DCE	11800	13000
1,1,1-TCA	[illegible]	[illegible]
Vinyl Chloride	<1000	<1000
1,4-Dioxane	<50000	<26000

MW-17

TCE	<50	<50
PCE	<50	<50
1,1-DCA	3830	3470
1,1-DCE	538	364
cis-1,2-DCE	268	214
1,1,1-TCA	<125	<50
Vinyl Chloride	423	360
1,4-Dioxane	11500	22300

demo'd

MW-16 29-44

TCE	274	438
PCE	288	<50
1,1-DCA	3980	3350
1,1-DCE	530	3500
cis-1,2-DCE	976	1540
1,1,1-TCA	<250	425
Vinyl Chloride	555	395
1,4-Dioxane	16500	12000

MW-11 30-40

TCE	<50	<400
PCE	<50	<400
1,1-DCA	9400	7600
1,1-DCE	3460	1480
cis-1,2-DCE	6700	8740
1,1,1-TCA	52.8	<400
Vinyl Chloride	198	1830
1,4-Dioxane	<2500	<10000

MW-10 25-40

TCE	<1000	<400
PCE	<1000	<400
1,1-DCA	42400	51700
1,1-DCE	2640	3370
cis-1,2-DCE	23300	24600
1,1,1-TCA	13300	8430
Vinyl Chloride	4100	3410
1,4-Dioxane	<50000	<10000

MW-9 30-45

TCE	50.4	419
PCE	204	132
1,1-DCA	180	1480
1,1-DCE	1480	1290
cis-1,2-DCE	630	652
1,1,1-TCA	82.1	18
Vinyl Chloride	107	73
1,4-Dioxane	6540	12800

MW-26 30-40

TCE	1330
PCE	1920
1,1-DCA	931
1,1-DCE	2340
cis-1,2-DCE	939
1,1,1-TCA	1250
Vinyl Chloride	<100
1,4-Dioxane	<2500

MW-22 30-40

TCE	<20
PCE	<20
1,1-DCA	1200
1,1-DCE	155
cis-1,2-DCE	3860
1,1,1-TCA	<20
Vinyl Chloride	88.9
1,4-Dioxane	<500

MW-18 31-46

TCE	946	176
PCE	534	<400
1,1-DCA	4390	9820
1,1-DCE	6850	4610
cis-1,2-DCE	18100	23800
1,1,1-TCA	1150	1260
Vinyl Chloride	<200	<400
1,4-Dioxane	<10000	<10000

MW-12 30-40

TCE	<10	<10
PCE	<10	<10
1,1-DCA	930	364
1,1-DCE	154	29.2
cis-1,2-DCE	180	24.8
1,1,1-TCA	21	9
Vinyl Chloride	1100	36
1,4-Dioxane	<500	<250

CHAIN LINK FENCE
RAILROAD
DRIP PAN
SORENSEN AVE.

DATES OF SURVEY
DECEMBER 18, 2002
MAY 27, 2003
JULY 25, 2003

Prepared by:
Blakely Environmental Investigations, Inc.
4359 Phelan Road, Phelan, CA 92371

Chlorinated VOC and 1,4-Dioxane Concentrations in Gasper Aquifer (µg/L)

Former Angeles Chemical Company, 8915 Sorensen Ave., Santa Fe Springs, CA 90670

FIGURE 7