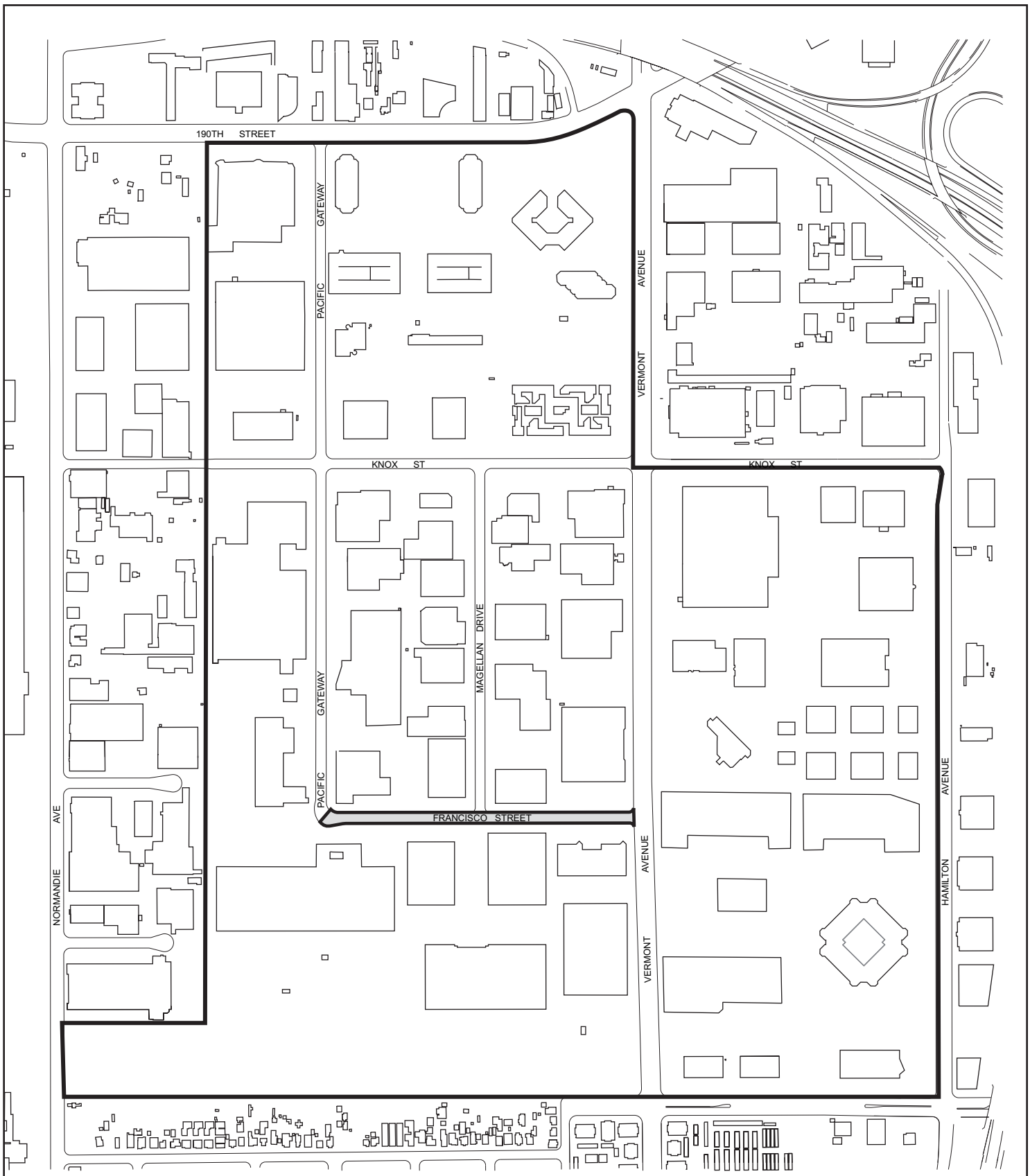
FRANCISCO STREET

Francisco Street is located within the central portion of the former Styrene Plancor. Styrene was manufactured within the plancor as a component of synthetic rubber. The street lies along the southern edge of two former ethylbenzene production units. Ethylbenzene was produced by combining ethylene and benzene in an alkylation process. The ethylbenzene was then purified through settling and fractionation processes. Former plancor facilities within the street segment are as follows:

- A dry well;
- Above-ground tanks containing caustic;
- A portion of a technological personnel building; and
- Underground pipelines used for transport of surface runoff water and/or wastewater.

Historical documents indicate that hydrochloric acid, sulfuric acid, ethylchloride, aluminum chloride, iron-oxide catalyst and tertiary butyl catechol may have been used in the vicinity of the street segment, although the precise location of storage facilities for these chemicals is unknown. By-products that may have been produced in or near the street segment include heavy oils, tar, and coke, which were either disposed of in the Waste Pit Area (located approximately 1,200 feet south of the parcel area) or recycled and used as boiler fuel.

T:\Ladd\DelAmo\1094-320



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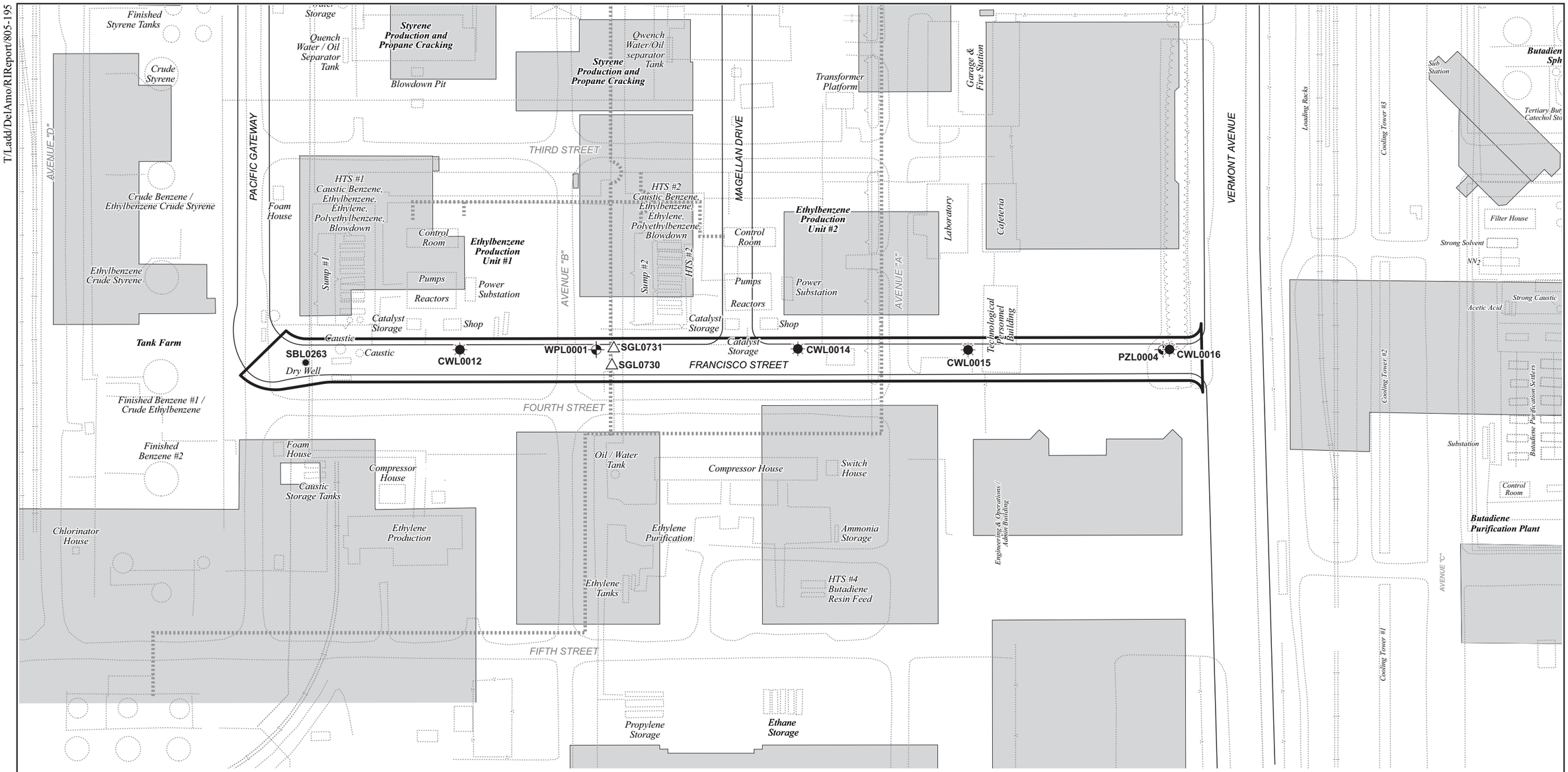
0 600 1,200

Scale in Feet

LOCATION MAP
Francisco Street

T/Ladd/DelAmo/RIReport/805-195



Legend

- Soil gas sampling location
- Soil boring
- Temporary well point
- Groundwater monitoring well
- Parcel boundary
- Cooling Tower #3 — Outlines of historical features with use/contents indicated
- Acetone / Acetonitrile
- Approximate location of former underground pipelines with a potential to have transported VOC-containing fluids
- Approximate former location of persistent soil staining

N

0 300 600

Scale in Feet

SAMPLING LOCATIONS AND HISTORICAL FEATURES
Francisco Street

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SUMMARY OF ANALYTICAL DATA
PARCEL Francisco St

Sample Media	Location	Depth (ft. bgs)	Date	Analysis Class	Analyte	Concentration	Screening Criteria Exceeded
Shallow Soil Gas (<= 15')	SGL0730	7.00	04/01/94	VOCs		All ND	
	SGL0731	7.00	04/01/94	VOCs		All ND	
Shallow Soil (<= 15')	SBL0263	1.50	04/16/03	SVOCs/PAHs	2-Methylnaphthalene	0.0018 mg/kg	
					Acenaphthene	0.0011 mg/kg	
					Acenaphthylene	0.0022 mg/kg	
					Anthracene	0.0028 mg/kg	
					Benzo(a)anthracene	0.004 mg/kg	
					Benzo(a)pyrene	0.0046 mg/kg	
					Benzo(b)fluoranthene	0.0067 mg/kg	
					Benzo(g,h,i)perylene	0.0022 mg/kg	
					Benzo(k)fluoranthene	0.0045 mg/kg	
					Chrysene	0.011 mg/kg	
					Dibenzo(a,h)anthracene	0.001 mg/kg	
					Fluoranthene	0.0089 mg/kg	
					Indeno(1,2,3-c,d)pyrene	0.0026 mg/kg	
					Naphthalene	0.00077 mg/kg	
					Phenanthrene	0.011 mg/kg	
					Pyrene	0.018 mg/kg	
				Pest./PCBs	4,4'-DDD	0.014 mg/kg	
					4,4'-DDE	0.042 mg/kg	
					4,4'-DDT	0.098 mg/kg	
				Metals	As	6.2 mg/kg	
					Ba	144 mg/kg	
					Be	0.54 mg/kg	
					Co	8.9 mg/kg	
					Cr	29.5 mg/kg	
					Cu	34.3 mg/kg	
					Hg	0.047 mg/kg	
					Mo	0.68 mg/kg	
					Ni	19.7 mg/kg	
					Pb	25.0 mg/kg	
					Se	1.6 mg/kg	
					Tl	0.98 mg/kg	
					V	49.1 mg/kg	
					Zn	83.0 mg/kg	
		7.00	04/16/03	VOCs		All ND	
Groundwater - Water Table	CWL0012	NA	02/03/93	VOCs	**Benzene**	**290,000 ug/l**	**CA MCL (1)**

SUMMARY OF ANALYTICAL DATA
PARCEL Francisco St

Sample Media	Location	Depth (ft. bgs)	Date	Analysis Class	Analyte	Concentration	Screening Criteria Exceeded
Groundwater - Water Table	CWL0012	NA	02/03/93	VOCs	**Ethylbenzene**	**26,000 ug/l**	**CA MCL (700)**
				SVOCs/PAHs	Benzoic acid	280 ug/l	
	CWL0014	NA	02/04/93	VOCs	**Benzene**	**3,000 ug/l**	**CA MCL (1)**
					Ethylbenzene	**12,000 ug/l**	**CA MCL (700)**
				SVOCs/PAHs	Phenol	16 ug/l	
	CWL0015	NA	02/05/93	VOCs	**1,1-Dichloroethene**	**29 ug/l**	**CA MCL (6)**
					Methyl Ethyl Ketone	230 ug/l	
					Tetrachloroethene	**37 ug/l**	**CA MCL (5)**
	CWL0016	NA	02/08/93	VOCs	Chloroform	0.96 ug/l	
					Methyl Ethyl Ketone	90 ug/l	
					Tetrachloroethene	3.9 ug/l	
	PZL0004	NA	03/29/94	VOCs	Chloroform	0.69 ug/l	
					Tetrachloroethene	3.8 ug/l	
			04/26/94	VOCs	Chloroform	0.74 ug/l	
					Tetrachloroethene	4.0 ug/l	
			07/15/94	VOCs	Chloroform	0.59 ug/l	
					Tetrachloroethene	3.5 ug/l	
			10/11/94	VOCs	Chloroform	0.90 ug/l	
					Tetrachloroethene	3.7 ug/l	
			03/13/95	VOCs	Tetrachloroethene	3.5 ug/l	
			06/27/95	VOCs	Chloroform	0.68 ug/l	
					Tetrachloroethene	3.5 ug/l	
			10/16/95	VOCs	Tetrachloroethene	3.7 ug/l	
			02/07/96	VOCs	Tetrachloroethene	3.2 ug/l	
			01/30/97	VOCs	Tetrachloroethene	2.8 ug/l	
			03/03/98	VOCs	1,1-Dichloroethene	0.45 ug/l	
					Chloroform	0.77 ug/l	
					Tetrachloroethene	2.5 ug/l	
			02/03/99	VOCs	1,1-Dichloroethene	0.82 ug/l	
					Chloroform	0.68 ug/l	
					Tetrachloroethene	3.0 ug/l	
			08/01/00	VOCs	1,1-Dichloroethene	0.58 ug/l	
					Chloroform	0.63 ug/l	
					Tetrachloroethene	2.4 ug/l	
			01/19/04	VOCs	Benzene	0.97 ug/l	
					Chloroform	0.81 ug/l	
	WPL0001	NA	02/08/93	VOCs	**Benzene**	**42,000 ug/l**	**CA MCL (1)**

SUMMARY OF ANALYTICAL DATA
PARCEL Francisco St

Sample Media	Location	Depth (ft. bgs)	Date	Analysis Class	Analyte	Concentration	Screening Criteria Exceeded
Groundwater - Water Table	WPL0001	NA	02/08/93	VOCs	**Ethylbenzene**	**11,000 ug/l**	**CA MCL (700)**
		65.0	02/08/93	SVOCs/PAHs	**Bis(2-ethylhexyl)phthalate**	**110 ug/l**	**CA MCL (4)**
					Phenol	300 ug/l	
Groundwater - Gage	XG-14	NA	02/22/94	VOCs	**Trichloroethene**	**37 ug/l**	**CA MCL (5)**
			05/20/94	VOCs	**Trichloroethene**	**51 ug/l**	**CA MCL (5)**
			07/26/94	VOCs	**Trichloroethene**	**51 ug/l**	**CA MCL (5)**
			10/05/94	VOCs	**Trichloroethene**	**61 ug/l**	**CA MCL (5)**
			03/08/95	VOCs	**Trichloroethene**	**54 ug/l**	**CA MCL (5)**
			06/22/95	VOCs	**Trichloroethene**	**58 ug/l**	**CA MCL (5)**
			10/10/95	VOCs	**Trichloroethene**	**54 ug/l**	**CA MCL (5)**
			02/01/96	VOCs	**Trichloroethene**	**86 ug/l**	**CA MCL (5)**
			01/16/97	VOCs	**Trichloroethene**	**130 ug/l**	**CA MCL (5)**
			03/05/98	VOCs	**Trichloroethene**	**240 ug/l**	**CA MCL (5)**
					cis-1,2-Dichloroethene	1.7 ug/l	
			02/01/99	VOCs	**Trichloroethene**	**180 ug/l**	**CA MCL (5)**
			07/24/00	VOCs	**Trichloroethene**	**180 ug/l**	**CA MCL (5)**
					cis-1,2-Dichloroethene	4.4 ug/l	
			01/22/04	VOCs	**Trichloroethene**	**120 ug/l**	**CA MCL (5)**
					cis-1,2-Dichloroethene	**12 ug/l**	**CA MCL (6)**
Groundwater - Water Table	XMW-10	NA	02/14/94	VOCs	**Chlorobenzene**	**220 ug/l**	**CA MCL (70)**
					Trichloroethene	**10 ug/l**	**CA MCL (5)**
			05/20/94	VOCs	**Chlorobenzene**	**170 ug/l**	**CA MCL (70)**
					Trichloroethene	**11 ug/l**	**CA MCL (5)**
			07/26/94	VOCs	**Chlorobenzene**	**130 ug/l**	**CA MCL (70)**
			10/05/94	VOCs	**Chlorobenzene**	**97 ug/l**	**CA MCL (70)**
					Chloroform	1.1 ug/l	
					Tetrachloroethene	2.2 ug/l	
					Trichloroethene	**14 ug/l**	**CA MCL (5)**
			03/09/95	VOCs	Benzene	0.55 ug/l	
					Chlorobenzene	**87 ug/l**	**CA MCL (70)**
					Chloroform	20 ug/l	
					Tetrachloroethene	2.4 ug/l	
					Trichloroethene	**8.3 ug/l**	**CA MCL (5)**
			06/22/95	VOCs	**Chlorobenzene**	**100 ug/l**	**CA MCL (70)**
					Chloroform	1.7 ug/l	
					Tetrachloroethene	2.0 ug/l	
					Trichloroethene	**13 ug/l**	**CA MCL (5)**

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SUMMARY OF ANALYTICAL DATA
PARCEL Francisco St

Sample Media	Location	Depth (ft. bgs)	Date	Analysis Class	Analyte	Concentration	Screening Criteria Exceeded
Groundwater - Water Table	XMW-10	NA	10/10/95	VOCs	Chlorobenzene	3.7 ug/l	
					Chloroform	2.5 ug/l	
					Tetrachloroethene	1.5 ug/l	
					Trichloroethene	**9.1 ug/l**	**CA MCL (5)**
			02/01/96	VOCs	**Benzene**	**2.6 ug/l**	**CA MCL (1)**
					Chlorobenzene	**270 ug/l**	**CA MCL (70)**
					Chloroform	1.4 ug/l	
					Trichloroethene	**6.4 ug/l**	**CA MCL (5)**
			01/24/97	VOCs	**Benzene**	**1.4 ug/l**	**CA MCL (1)**
					Chlorobenzene	**180 ug/l**	**CA MCL (70)**
					Chloroform	1.2 ug/l	
					Tetrachloroethene	1.2 ug/l	
					Trichloroethene	**12 ug/l**	**CA MCL (5)**
			03/09/98	VOCs	1,4-Dichlorobenzene	0.27 ug/l	
					Benzene	**1.1 ug/l**	**CA MCL (1)**
					Chlorobenzene	**150 ug/l**	**CA MCL (70)**
					Chloroform	1.1 ug/l	
					Tetrachloroethene	1.2 ug/l	
					Trichloroethene	**12 ug/l**	**CA MCL (5)**
					cis-1,2-Dichloroethene	0.68 ug/l	
			02/01/99	VOCs	Chlorobenzene	49 ug/l	
					Trichloroethene	**12 ug/l**	**CA MCL (5)**
			07/17/00	VOCs	Chlorobenzene	26 ug/l	
					Chloroform	0.65 ug/l	
					Tetrachloroethene	1.1 ug/l	
					Trichloroethene	**18 ug/l**	**CA MCL (5)**
	XMW-27	NA	02/23/93	VOCs	**Benzene**	**120 ug/l**	**CA MCL (1)**
					Chlorobenzene	9.3 ug/l	
					Chloroform	47 ug/l	
					Ethylbenzene	14 ug/l	
					Toluene	120 ug/l	
					Trichloroethene	**9.5 ug/l**	**CA MCL (5)**
					Xylenes (Total)	170 ug/l	
			06/06/96	VOCs	**Benzene**	**10 ug/l**	**CA MCL (1)**
					Cyclohexane	13 ug/l	
					Trichloroethene	**5.2 ug/l**	**CA MCL (5)**
			10/14/96	VOCs	**Benzene**	**17 ug/l**	**CA MCL (1)**

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SUMMARY OF ANALYTICAL DATA
PARCEL Francisco St

Sample Media	Location	Depth (ft. bgs)	Date	Analysis Class	Analyte	Concentration	Screening Criteria Exceeded
Groundwater - Water Table	XMW-27	NA	10/14/96	VOCs	Chlorobenzene	1.3 ug/l	
					Trichloroethene	**10 ug/l**	**CA MCL (5)**
					Xylenes (Total)	1.2 ug/l	
					cis-1,2-Dichloroethene	1.4 ug/l	
			01/16/97	VOCs	**Benzene**	**5.6 ug/l**	**CA MCL (1)**
					Trichloroethene	2.1 ug/l	
					Xylenes (Total)	1.3 ug/l	
			03/05/98	VOCs	1,1-Dichloroethene	0.14 ug/l	
					Acetone	29 ug/l	
					Benzene	**5.4 ug/l**	**CA MCL (1)**
					Chlorobenzene	0.95 ug/l	
					Chloroform	0.19 ug/l	
					Isopropylbenzene	0.17 ug/l	
					Tetrachloroethene	0.32 ug/l	
					Trichloroethene	**6.5 ug/l**	**CA MCL (5)**
					cis-1,2-Dichloroethene	0.74 ug/l	
			02/01/99	VOCs	**1,2-Dichloroethane**	**0.51 ug/l**	**CA MCL (0.5)**
					Benzene	**10 ug/l**	**CA MCL (1)**
					Chlorobenzene	2.5 ug/l	
					Chloroform	0.91 ug/l	
					Cyclohexane	8.5 ug/l	
					Ethylbenzene	1.3 ug/l	
					Isopropylbenzene	0.76 ug/l	
					Tetrachloroethene	1.4 ug/l	
					Trichloroethene	**13 ug/l**	**CA MCL (5)**
					cis-1,2-Dichloroethene	1.2 ug/l	
					n-Propylbenzene	1.2 ug/l	
			07/17/00	VOCs	**Benzene**	**22 ug/l**	**CA MCL (1)**
					Chlorobenzene	3.1 ug/l	
					Ethylbenzene	1.3 ug/l	
					Isopropylbenzene	0.79 ug/l	
					Tetrachloroethene	1.3 ug/l	
					Toluene	1.4 ug/l	
					Trichloroethene	**17 ug/l**	**CA MCL (5)**
					Xylenes (Total)	0.59 ug/l	
					cis-1,2-Dichloroethene	1.4 ug/l	
					n-Propylbenzene	0.91 ug/l	

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SUMMARY OF ANALYTICAL DATA
PARCEL Francisco St

Sample Media	Location	Depth (ft. bgs)	Date	Analysis Class	Analyte	Concentration	Screening Criteria Exceeded
Groundwater - Water Table	XMW-27	NA	07/17/00	VOCs	sec-Butylbenzene	0.30 ug/l	