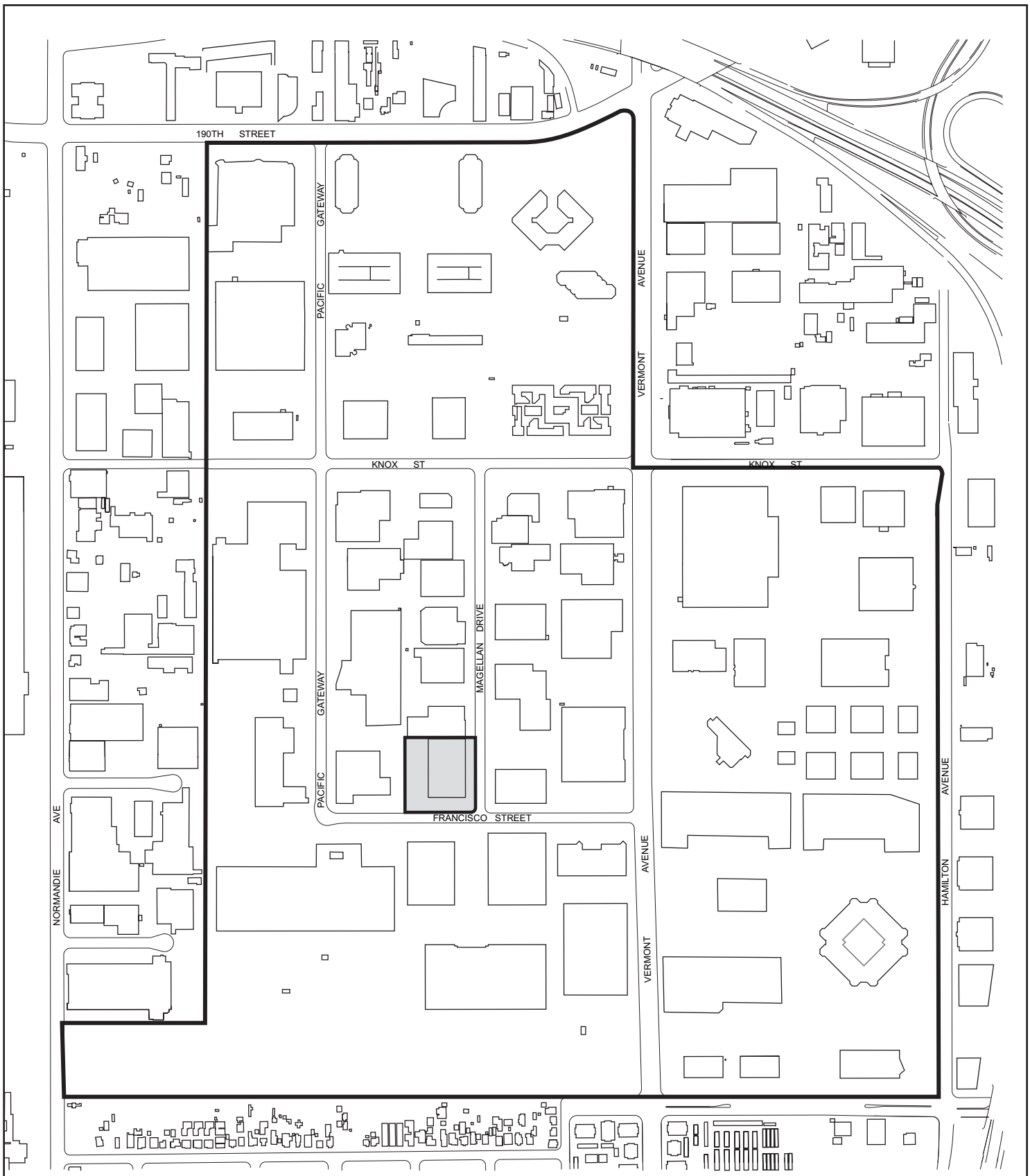
PARCEL 7351-034-047

Parcel 7351-034-047 is located in the central portion of the former Styrene Plancor. Styrene was manufactured within the plancor as a component of synthetic rubber. The eastern portion of the parcel area was used for production of ethylbenzene, a precursor to styrene. 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 parcel are as follows:

- Aboveground tanks used for storage of caustic, benzene, ethylbenzene, ethylene, poly-ethyl benzenes, "blowdown", and an unspecified catalyst;
- An aboveground tank of unknown use (southwestern corner of parcel);
- A sump; and
- Underground pipelines used for transport of surface runoff water and/or wastewater;

Historical documents indicate that, in addition to the VOCs identified above, hydrochloric acid, sulfuric acid, ethylchloride, aluminum chloride, iron-oxide catalyst and tertiary butyl catechol may have been used in the parcel area, although the location of storage facilities for these chemicals is unknown. By-products that may have been produced in the parcel area include heavy oils, tar, and coke, which were either disposed of in the Waste Pit Area (located approximately 1,600 feet south of the parcel area) or recycled and used as boiler fuel.

T:\Ladd\DelAmo\794-165



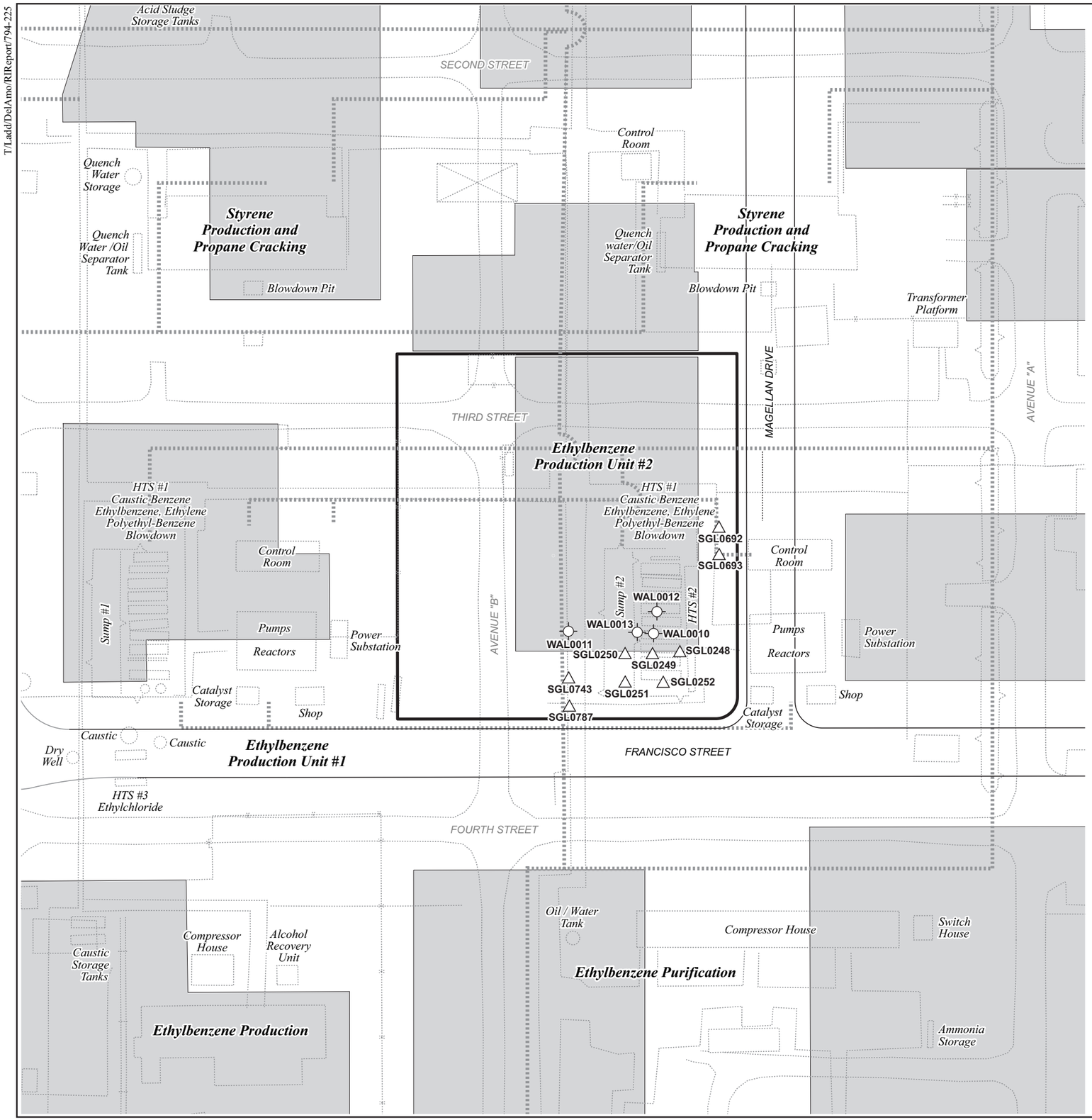
N

0 600 1,200

Scale in Feet

LOCATION MAP
Parcel 7351-034-047

T/Ladd/DelAmo/RIReport/794-225



Legend

- Soil gas sampling location
- Indoor air monitoring location
- 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

N

0 100 200

Scale in Feet

SAMPLING LOCATIONS AND HISTORICAL FEATURES
Parcel No. 7351-034-047

URS

SUMMARY OF ANALYTICAL DATA
PARCEL 7351-034-047

Sample Media	Location	Depth (ft. bgs)	Date	Analysis Class	Analyte	Concentration	Screening Criteria Exceeded
Shallow Soil Gas (<= 15')	SGL0248	6.50	04/13/93	VOCs		All ND	
	SGL0249	6.50	04/13/93	VOCs	Benzene	4.9 ppmv	
					Ethylbenzene	64 ppmv	
	SGL0250	6.50	04/13/93	VOCs	Ethylbenzene	0.17 ppmv	
	SGL0251	6.50	04/13/93	VOCs	Benzene	0.17 ppmv	
					Ethylbenzene	0.54 ppmv	
					Toluene	0.11 ppmv	
	SGL0252	6.50	04/13/93	VOCs	Benzene	0.050 ppmv	
					Ethylbenzene	0.25 ppmv	
	SGL0692	7.00	03/29/94	VOCs		All ND	
	SGL0693	7.00	03/29/94	VOCs		All ND	
	SGL0694	6.00	03/29/94	VOCs	1,1,1-Trichloroethane	0.035 ppmv	
					Tetrachloroethene	0.070 ppmv	
	SGL0695	7.00	03/29/94	VOCs		All ND	
	SGL0696	7.00	03/30/94	VOCs	1,1,1-Trichloroethane	0.36 ppmv	
					Tetrachloroethene	0.017 ppmv	
	SGL0697	7.00	03/30/94	VOCs	1,1,1-Trichloroethane	0.022 ppmv	
	SGL0743	7.00	04/06/94	VOCs		All ND	
	SGL0787	7.00	04/11/94	VOCs		All ND	
Indoor Air	WAL0010	NA	10/19/94	VOCs	1,1,1-Trichloroethane	19 ug/m3	
					Benzene	**4.4 ug/m3**	**Ambient Air PRG (0.23)**
					Cyclohexane	11 ug/m3	
					Ethylbenzene	2.7 ug/m3	
					Methyl Ethyl Ketone	5.6 ug/m3	
					Methylene chloride	1.3 ug/m3	
					Styrene	1.1 ug/m3	
					Tetrachloroethene	**1.3 ug/m3**	**Ambient Air PRG (0.67)**
					Toluene	18 ug/m3	
					Xylenes (Total)	15 ug/m3	
			01/17/95	VOCs	1,1,1-Trichloroethane	19 ug/m3	
					Benzene	**2.5 ug/m3**	**Ambient Air PRG (0.23)**
					Ethylbenzene	2.1 ug/m3	
					Methyl Ethyl Ketone	5.6 ug/m3	
					Methylene chloride	1.9 ug/m3	
					Styrene	1.1 ug/m3	
					Tetrachloroethene	**1.6 ug/m3**	**Ambient Air PRG (0.67)**
					Toluene	16 ug/m3	

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SUMMARY OF ANALYTICAL DATA
PARCEL 7351-034-047

Sample Media	Location	Depth (ft. bgs)	Date	Analysis Class	Analyte	Concentration	Screening Criteria Exceeded
Indoor Air	WAL0010	NA	01/17/95	VOCs	**Trichloroethene**	**5.7 ug/m3**	**Ambient Air PRG (0.017)**
					Xylenes (Total)	11 ug/m3	
			04/07/95	VOCs	1,1,1-Trichloroethane	3.1 ug/m3	
					Benzene	**0.44 ug/m3**	**Ambient Air PRG (0.23)**
					Ethylbenzene	1.6 ug/m3	
					Styrene	0.60 ug/m3	
					Toluene	4.4 ug/m3	
					Xylenes (Total)	7.4 ug/m3	
	WAL0011	NA	10/19/94	VOCs	1,1,1-Trichloroethane	18 ug/m3	
					Benzene	**5.6 ug/m3**	**Ambient Air PRG (0.23)**
					Cyclohexane	11 ug/m3	
					Ethylbenzene	2.7 ug/m3	
					Methyl Ethyl Ketone	5.6 ug/m3	
					Methylene chloride	1.4 ug/m3	
					Styrene	0.83 ug/m3	
					Tetrachloroethene	**1.3 ug/m3**	**Ambient Air PRG (0.67)**
					Toluene	20 ug/m3	
					Xylenes (Total)	14 ug/m3	
			01/17/95	VOCs	1,1,1-Trichloroethane	15 ug/m3	
					Benzene	**2.6 ug/m3**	**Ambient Air PRG (0.23)**
					Cyclohexane	14 ug/m3	
					Ethylbenzene	2.1 ug/m3	
					Methyl Ethyl Ketone	6.1 ug/m3	
					Methylene chloride	2.1 ug/m3	
					Styrene	0.73 ug/m3	
					Tetrachloroethene	**1.5 ug/m3**	**Ambient Air PRG (0.67)**
					Toluene	15 ug/m3	
					Trichloroethene	**0.22 ug/m3**	**Ambient Air PRG (0.017)**
					Xylenes (Total)	9.9 ug/m3	
			04/07/95	VOCs	1,1,1-Trichloroethane	2.3 ug/m3	
					Benzene	**0.48 ug/m3**	**Ambient Air PRG (0.23)**
					Ethylbenzene	0.54 ug/m3	
					Toluene	2.8 ug/m3	
					Xylenes (Total)	2.6 ug/m3	
	WAL0012	NA	10/19/94	VOCs	1,1,1-Trichloroethane	21 ug/m3	
					Benzene	**5.5 ug/m3**	**Ambient Air PRG (0.23)**
					Cyclohexane	11 ug/m3	

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SUMMARY OF ANALYTICAL DATA
PARCEL 7351-034-047

Sample Media	Location	Depth (ft. bgs)	Date	Analysis Class	Analyte	Concentration	Screening Criteria Exceeded
Indoor Air	WAL0012	NA	10/19/94	VOCs	Ethylbenzene	2.9 ug/m3	
					Methyl Ethyl Ketone	4.9 ug/m3	
					Methylene chloride	1.3 ug/m3	
					Styrene	1.1 ug/m3	
					Tetrachloroethene	**1.2 ug/m3**	**Ambient Air PRG (0.67)**
					Toluene	16 ug/m3	
					Xylenes (Total)	15 ug/m3	
			01/17/95	VOCs	1,1,1-Trichloroethane	20 ug/m3	
					Benzene	**2.4 ug/m3**	**Ambient Air PRG (0.23)**
					Cyclohexane	14 ug/m3	
					Ethylbenzene	1.9 ug/m3	
					Methyl Ethyl Ketone	5.9 ug/m3	
					Methylene chloride	1.9 ug/m3	
					Styrene	1.0 ug/m3	
					Tetrachloroethene	**1.3 ug/m3**	**Ambient Air PRG (0.67)**
					Toluene	14 ug/m3	
					Xylenes (Total)	9.9 ug/m3	
			04/07/95	VOCs	1,1,1-Trichloroethane	7.4 ug/m3	
					Benzene	**0.40 ug/m3**	**Ambient Air PRG (0.23)**
					Ethylbenzene	1.1 ug/m3	
					Toluene	3.0 ug/m3	
					Xylenes (Total)	4.8 ug/m3	
	WAL0013	NA	10/19/94	VOCs	1,1,1-Trichloroethane	2.7 ug/m3	
					Benzene	**2.8 ug/m3**	**Ambient Air PRG (0.23)**
					Ethylbenzene	1.2 ug/m3	
					Methyl Ethyl Ketone	2.3 ug/m3	
					Styrene	0.25 ug/m3	
					Tetrachloroethene	0.55 ug/m3	
					Toluene	6.8 ug/m3	
					Xylenes (Total)	6.2 ug/m3	
			01/17/95	VOCs	1,1,1-Trichloroethane	2.1 ug/m3	
					Benzene	**1.9 ug/m3**	**Ambient Air PRG (0.23)**
					Cyclohexane	3.0 ug/m3	
					Ethylbenzene	0.96 ug/m3	
					Methyl Ethyl Ketone	2.5 ug/m3	
					Methylene chloride	0.73 ug/m3	
					Styrene	0.48 ug/m3	

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SUMMARY OF ANALYTICAL DATA
PARCEL 7351-034-047

Sample Media	Location	Depth (ft. bgs)	Date	Analysis Class	Analyte	Concentration	Screening Criteria Exceeded
Indoor Air	WAL0013	NA	01/17/95	VOCs	Tetrachloroethene	0.46 ug/m3	
					Toluene	5.2 ug/m3	
					Xylenes (Total)	4.9 ug/m3	
			04/07/95	VOCs	1,1,1-Trichloroethane	0.60 ug/m3	
					Ethylbenzene	1.2 ug/m3	
					Toluene	3.0 ug/m3	
					Xylenes (Total)	5.4 ug/m3	

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