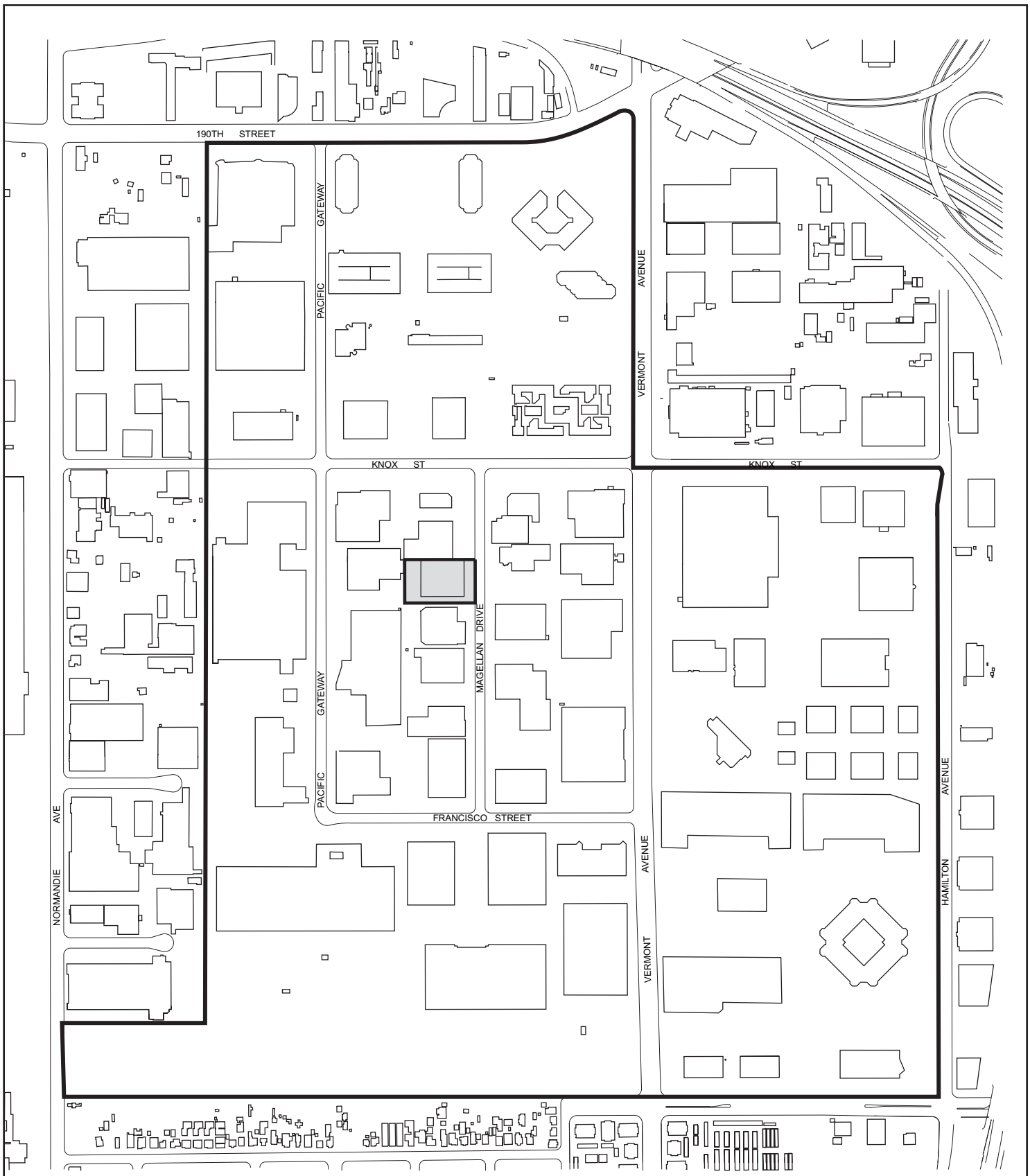
PARCEL 7351-034-039

Parcel 7351-034-039 is located in the northern portion of the former Styrene Plancor. Styrene was manufactured within the plancor as a component of synthetic rubber. Former plancor facilities identified within the parcel area are as follows:

- Underground pipelines and surface ditches used for transport of surface runoff and/or wastewater; and
- A railroad spur.

T:\Ladd\DelAmo\794-161



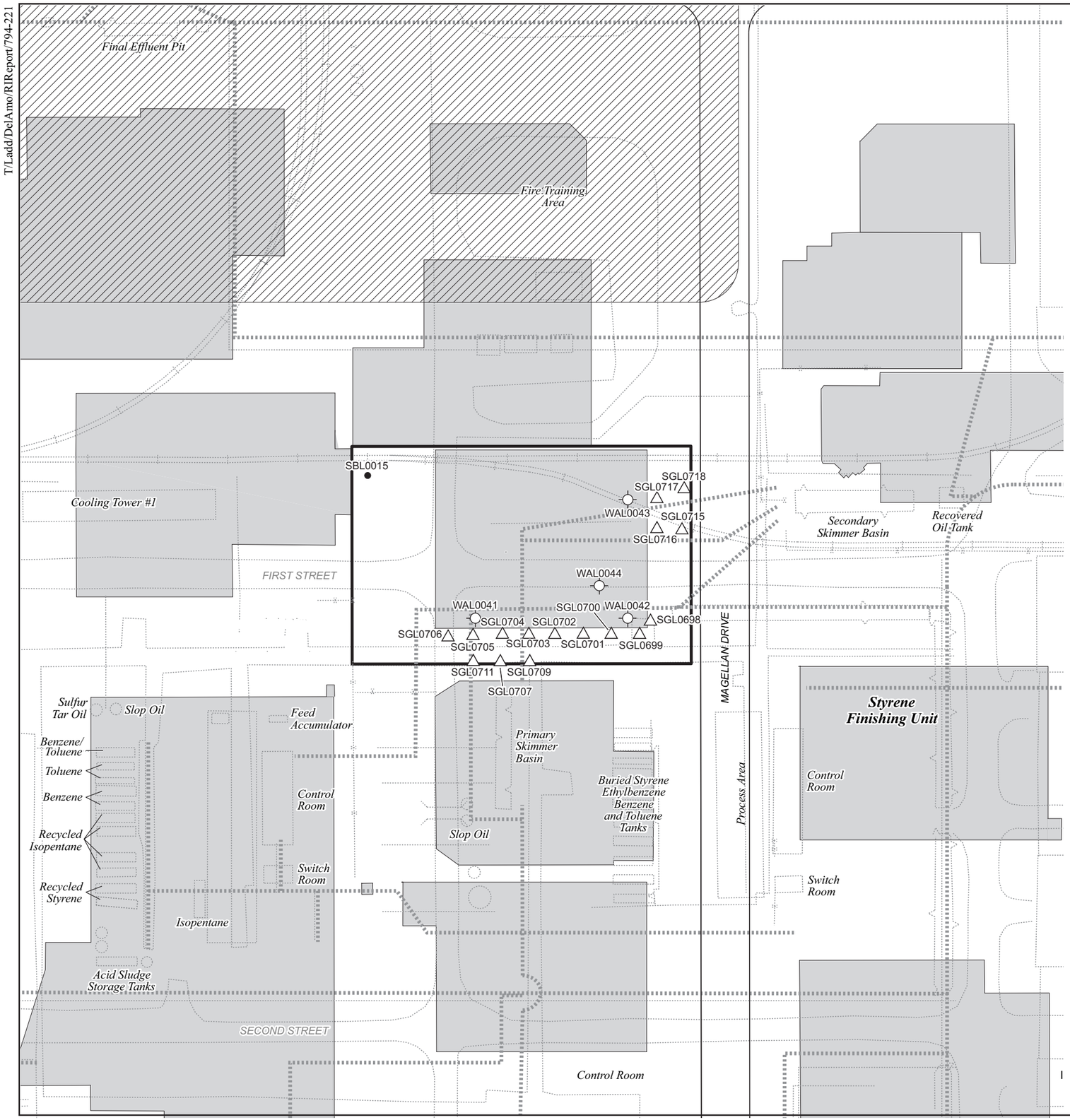
N

0 600 1,200

Scale in Feet

LOCATION MAP
Parcel 7351-034-039

T/Ladd/DelAmo/RIReport/794-221



Legend

- Soil gas sampling location
- Soil boring
- 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
- Approximate former location of persistent soil staining

SAMPLING LOCATIONS AND HISTORICAL FEATURES
Parcel No. 7351-034-039

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SUMMARY OF ANALYTICAL DATA
PARCEL 7351-034-039

Sample Media	Location	Depth (ft. bgs)	Date	Analysis Class	Analyte	Concentration	Screening Criteria Exceeded
Shallow Soil Gas (<= 15')	SGL0698	7.00	03/30/94	VOCs	1,1,1-Trichloroethane	0.027 ppmv	
					Tetrachloroethene	0.014 ppmv	
	SGL0699	7.00	03/30/94	VOCs		All ND	
	SGL0700	7.00	03/30/94	VOCs	1,1,1-Trichloroethane	0.15 ppmv	
	SGL0701	7.00	03/30/94	VOCs		All ND	
	SGL0702	7.00	03/30/94	VOCs	1,1,1-Trichloroethane	0.017 ppmv	
	SGL0703	7.00	03/30/94	VOCs		All ND	
	SGL0704	5.50	03/30/94	VOCs	4-Ethyl Toluene	4.6 ppmv	
					Benzene	**210 ppmv**	**Threshold Value (30)**
					Ethylbenzene	620 ppmv	
					Styrene	27 ppmv	
					Toluene	59 ppmv	
					Xylenes (Total)	43 ppmv	
	SGL0705	7.00	03/30/94	VOCs	Ethylbenzene	1.1 ppmv	
	SGL0706	7.00	03/30/94	VOCs	Ethylbenzene	1.2 ppmv	
	SGL0707	7.00	03/30/94	VOCs	Benzene	26 ppmv	
					Cyclohexane	2.8 ppmv	
					Ethylbenzene	48 ppmv	
					Styrene	3.7 ppmv	
					Toluene	6.6 ppmv	
					Xylenes (Total)	4.1 ppmv	
	SGL0709	7.00	03/30/94	VOCs		All ND	
	SGL0711	7.00	03/31/94	VOCs	1,1,1-Trichloroethane	0.057 ppmv	
	SGL0715	7.00	03/31/94	VOCs	1,1,1-Trichloroethane	0.038 ppmv	
	SGL0716	7.00	03/31/94	VOCs		All ND	
	SGL0717	7.00	03/31/94	VOCs		All ND	
	SGL0718	7.00	03/31/94	VOCs	Benzene	0.16 ppmv	
					Ethylbenzene	1.5 ppmv	
					Toluene	0.090 ppmv	
Deep Soil (> 15')	SBL0015	34.0	11/23/92	Physical Properties	Bulk Density H	1.62 g/cc	
					Bulk Density V	1.62 g/cc	
					Grain Density H	2.61 g/cc	
					Grain Density V	2.61 g/cc	
					Porosity H	37.9 %vb	
					Porosity V	38.1 %vb	
					Effective Porosity H	6.70 %vb	
					Effective Porosity V	8.60 %vb	

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SUMMARY OF ANALYTICAL DATA
PARCEL 7351-034-039

Sample Media	Location	Depth (ft. bgs)	Date	Analysis Class	Analyte	Concentration	Screening Criteria Exceeded
Deep Soil (> 15')	SBL0015	34.0	11/23/92	Physical Properties	Moisture Content	21.4 %wt	
					Liquid Limit	34 %m	
					Moisture Content	25.2408 %m	
					Plastic Index	14 %m	
					Plastic Limit	20 %m	
					Hydraulic Conductivity H	1.9E-05 cm/s	
					Water Permeability H	19.8 md	
					PAN	24.56 %	
					0.020MM_SIEVE	3.73 %	
					0.030MM_SIEVE	22.73 %	
					0.037MM_SIEVE	13.30 %	
					0.053MM_SIEVE	7.97 %	
					0.074MM_SIEVE	10.67 %	
					0.105MM_SIEVE	9.14 %	
					0.149MM_SIEVE	5.70 %	
					0.210MM_SIEVE	1.10 %	
					0.300MM_SIEVE	0.80 %	
					0.420MM_SIEVE	0.15 %	
					0.590MM_SIEVE	0.07 %	
					0.840MM_SIEVE	0.07 %	
		77.0	11/23/92	Physical Properties	Bulk Density H	1.33 g/cc	
					Bulk Density V	1.46 g/cc	
					Grain Density H	2.63 g/cc	
					Grain Density V	2.61 g/cc	
					Porosity H	49.4 %vb	
					Porosity V	44.2 %vb	
					Effective Porosity H	12.8 %vb	
					Effective Porosity V	15.3 %vb	
					Liquid Limit	41 %m	
					Moisture Content	36.3987 %m	
					Plastic Index	16 %m	
					Plastic Limit	25 %m	
					Native State Air Permeability V	2.75 md	
					PAN	17.66 %	
					0.020MM_SIEVE	2.68 %	
					0.030MM_SIEVE	29.37 %	
					0.037MM_SIEVE	15.98 %	

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SUMMARY OF ANALYTICAL DATA
PARCEL 7351-034-039

Sample Media	Location	Depth (ft. bgs)	Date	Analysis Class	Analyte	Concentration	Screening Criteria Exceeded
Deep Soil (> 15')	SBL0015	77.0	11/23/92	Physical Properties	0.053MM_SIEVE	9.29 %	
					0.074MM_SIEVE	8.79 %	
					0.105MM_SIEVE	4.10 %	
					0.149MM_SIEVE	3.01 %	
					0.210MM_SIEVE	2.34 %	
					0.300MM_SIEVE	2.93 %	
					0.420MM_SIEVE	2.26 %	
					0.590MM_SIEVE	1.26 %	
					0.840MM_SIEVE	0.33 %	
		94.5	11/23/92	Physical Properties	Liquid Limit	75 %m	
					Moisture Content	40.59 %m	
					Plastic Index	42 %m	
					Plastic Limit	33 %m	
		110	11/23/92	Physical Properties	Bulk Density H	1.45 g/cc	
					Bulk Density V	1.41 g/cc	
					Grain Density H	2.58 g/cc	
					Grain Density V	2.55 g/cc	
					Porosity H	44.0 %vb	
					Porosity V	44.5 %vb	
					Effective Porosity H	17.3 %vb	
					Effective Porosity V	15.9 %vb	
					Moisture Content	25.6561 %m	
					Air Permeability H	1.3E-05 cm/s	
					Air Permeability V	4.2E-05 cm/s	
					Native State Air Permeability H	190 md	
					Native State Air Permeability V	637 md	
					Hydraulic Conductivity H	3.2E-04 cm/s	
					Hydraulic Conductivity V	3.9E-05 cm/s	
					Water Permeability H	344 md	
					Water Permeability V	41.0 md	
					PAN	1.08 %	
					0.037MM_SIEVE	0.88 %	
					0.044MM_SIEVE	2.26 %	
					0.063MM_SIEVE	4.42 %	
					0.088MM_SIEVE	24.14 %	
					0.125MM_SIEVE	57.02 %	
					0.177MM_SIEVE	3.34 %	

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SUMMARY OF ANALYTICAL DATA
PARCEL 7351-034-039

Sample Media	Location	Depth (ft. bgs)	Date	Analysis Class	Analyte	Concentration	Screening Criteria Exceeded
Deep Soil (> 15')	SBL0015	110	11/23/92	Physical Properties	0.250MM_SIEVE	1.08 %	
					0.354MM_SIEVE	1.08 %	
					0.500MM_SIEVE	1.37 %	
					0.707MM_SIEVE	1.37 %	
					1.000MM_SIEVE	0.88 %	
					1.414MM_SIEVE	0.29 %	
					2.000MM_SIEVE	0.79 %	
		145	11/24/92	Physical Properties	Bulk Density H	1.70 g/cc	
					Bulk Density V	1.66 g/cc	
					Grain Density H	2.60 g/cc	
					Grain Density V	2.57 g/cc	
					Porosity H	34.7 %vb	
					Porosity V	35.6 %vb	
					Effective Porosity H	14.9 %vb	
					Effective Porosity V	13.8 %vb	
					Moisture Content	17.1537 %m	
					Air Permeability H	9.5E-04 cm/s	
					Air Permeability V	8.0E-04 cm/s	
					Native State Air Permeability H	14,400 md	
					Native State Air Permeability V	12,100 md	
					Hydraulic Conductivity H	7.2E-05 cm/s	
					Hydraulic Conductivity V	7.7E-05 cm/s	
					Water Permeability H	76.7 md	
					Water Permeability V	81.9 md	
					PAN	0.76 %	
					0.037MM_SIEVE	0.52 %	
					0.044MM_SIEVE	2.57 %	
					0.063MM_SIEVE	4.18 %	
					0.088MM_SIEVE	3.71 %	
					0.125MM_SIEVE	6.04 %	
					0.177MM_SIEVE	10.08 %	
					0.250MM_SIEVE	23.86 %	
					0.354MM_SIEVE	27.38 %	
					0.500MM_SIEVE	16.02 %	
					0.707MM_SIEVE	4.18 %	
					1.000MM_SIEVE	0.67 %	
					1.414MM_SIEVE	0.05 %	

Created with soiladdendumprint and parcelsumtmp2.frx on 09/13/05 at 14:14:21

SUMMARY OF ANALYTICAL DATA
PARCEL 7351-034-039

Sample Media	Location	Depth (ft. bgs)	Date	Analysis Class	Analyte	Concentration	Screening Criteria Exceeded
Indoor Air	WAL0041	NA	10/07/94	VOCs	1,1,1-Trichloroethane	2.6 ug/m3	
					Benzene	**3.1 ug/m3**	**Ambient Air PRG (0.23)**
					Ethylbenzene	1.9 ug/m3	
					Methyl Ethyl Ketone	3.8 ug/m3	
					Styrene	1.5 ug/m3	
					Tetrachloroethene	**1.1 ug/m3**	**Ambient Air PRG (0.67)**
					Toluene	10 ug/m3	
					Trichloroethene	**0.28 ug/m3**	**Ambient Air PRG (0.017)**
					Xylenes (Total)	10 ug/m3	
			01/11/95	VOCs	1,1,1-Trichloroethane	34 ug/m3	
					Benzene	**0.80 ug/m3**	**Ambient Air PRG (0.23)**
					Ethylbenzene	0.55 ug/m3	
					Styrene	0.39 ug/m3	
					Toluene	2.6 ug/m3	
					Xylenes (Total)	2.0 ug/m3	
	WAL0042	NA	10/07/94	VOCs	1,1,1-Trichloroethane	3.2 ug/m3	
					Benzene	**3.5 ug/m3**	**Ambient Air PRG (0.23)**
					Ethylbenzene	2.1 ug/m3	
					Methyl Ethyl Ketone	3.8 ug/m3	
					Tetrachloroethene	**0.96 ug/m3**	**Ambient Air PRG (0.67)**
					Toluene	12 ug/m3	
					Xylenes (Total)	11 ug/m3	
			01/11/95	VOCs	1,1,1-Trichloroethane	49 ug/m3	
					Benzene	**0.92 ug/m3**	**Ambient Air PRG (0.23)**
					Ethylbenzene	0.52 ug/m3	
					Styrene	0.39 ug/m3	
					Toluene	2.5 ug/m3	
					Xylenes (Total)	1.9 ug/m3	
	WAL0043	NA	10/07/94	VOCs	1,1,1-Trichloroethane	3.2 ug/m3	
					Benzene	**4.9 ug/m3**	**Ambient Air PRG (0.23)**
					Ethylbenzene	2.0 ug/m3	
					Methyl Ethyl Ketone	8.6 ug/m3	
					Styrene	1.6 ug/m3	
					Tetrachloroethene	**0.89 ug/m3**	**Ambient Air PRG (0.67)**
					Toluene	12 ug/m3	
					Xylenes (Total)	10 ug/m3	
			01/11/95	VOCs	1,1,1-Trichloroethane	33 ug/m3	

SUMMARY OF ANALYTICAL DATA
PARCEL 7351-034-039

Sample Media	Location	Depth (ft. bgs)	Date	Analysis Class	Analyte	Concentration	Screening Criteria Exceeded
Indoor Air	WAL0043	NA	01/11/95	VOCs	**Benzene**	**0.76 ug/m3**	**Ambient Air PRG (0.23)**
					Ethylbenzene	0.55 ug/m3	
					Styrene	0.42 ug/m3	
					Toluene	2.5 ug/m3	
					Xylenes (Total)	2.1 ug/m3	
	WAL0044	NA	10/07/94	VOCs	1,1,1-Trichloroethane	1.4 ug/m3	
					Benzene	**1.8 ug/m3**	**Ambient Air PRG (0.23)**
					Ethylbenzene	0.98 ug/m3	
					Methyl Ethyl Ketone	2.0 ug/m3	
					Styrene	1.1 ug/m3	
					Tetrachloroethene	0.51 ug/m3	
					Toluene	6.0 ug/m3	
					Xylenes (Total)	4.9 ug/m3	
			01/11/95	VOCs	1,1,1-Trichloroethane	3.0 ug/m3	
					Benzene	**0.93 ug/m3**	**Ambient Air PRG (0.23)**
					Ethylbenzene	0.70 ug/m3	
					Styrene	0.52 ug/m3	
					Toluene	3.8 ug/m3	
					Xylenes (Total)	2.9 ug/m3	