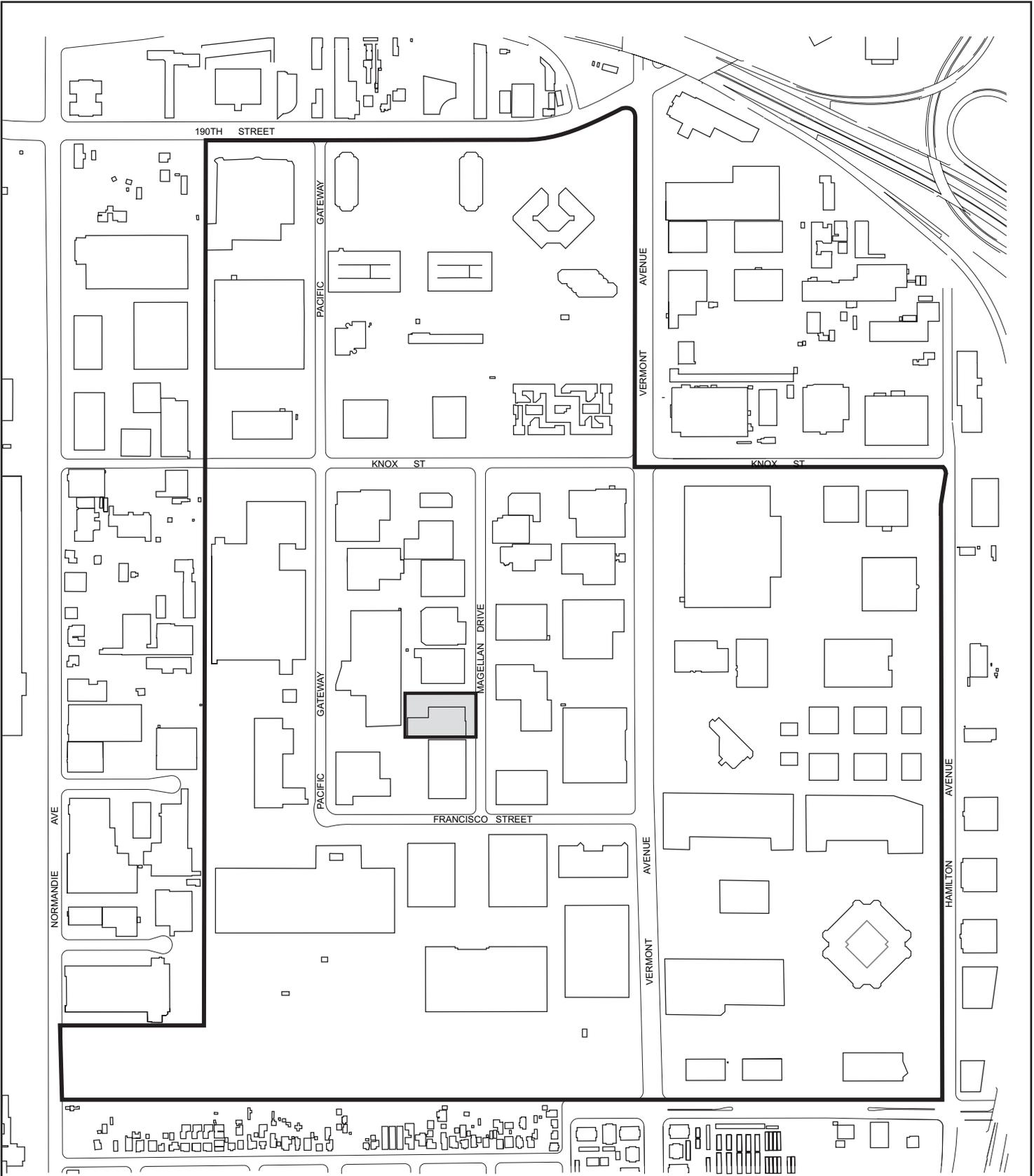


## **PARCEL 7351-034-045**

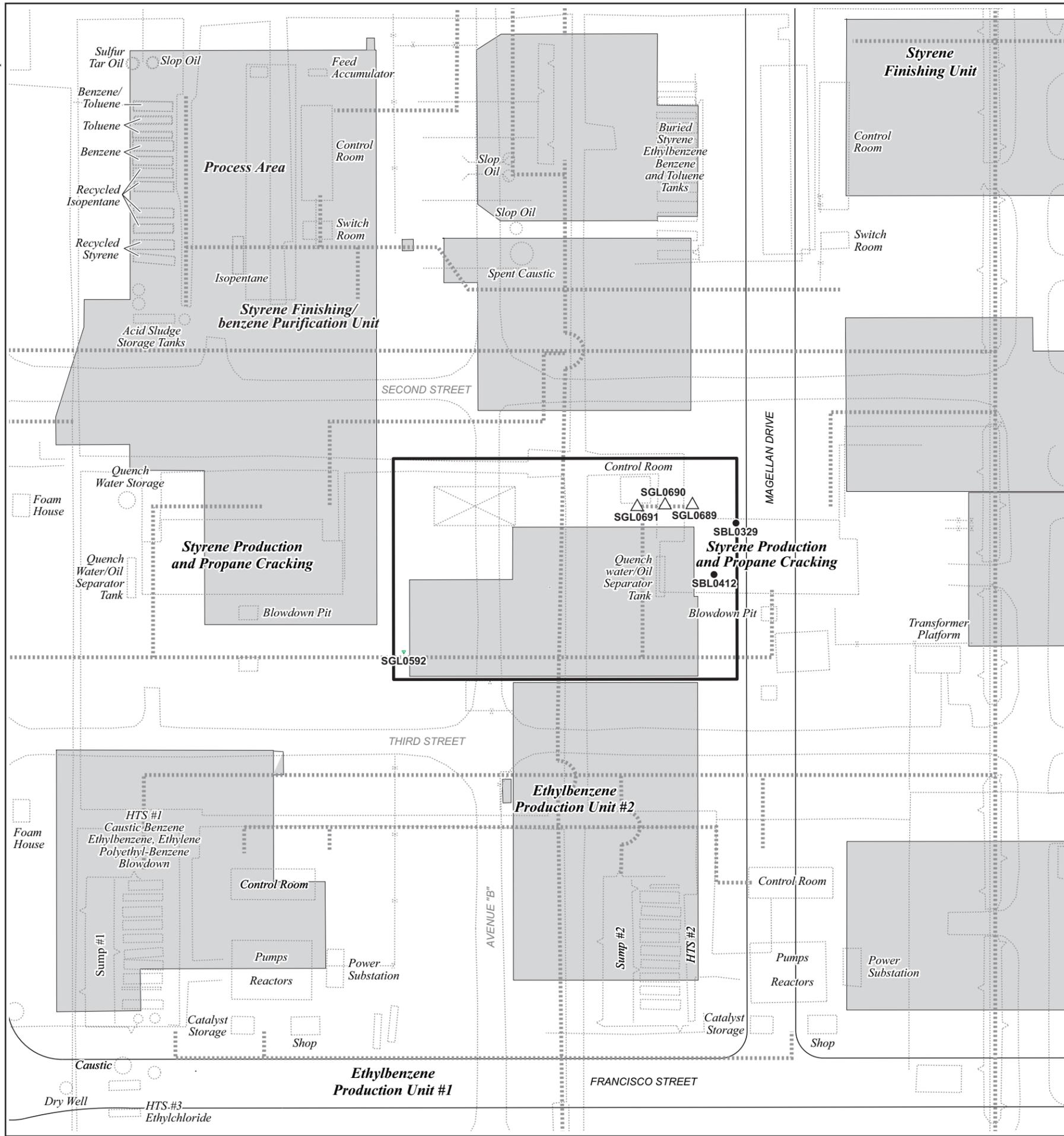
Parcel 7351-034-045 is located in the northern portion of the former Styrene Plancor. Styrene was manufactured within the plancor as a component of synthetic rubber. The parcel area includes the western portion of a former styrene production and propane cracking process area. Styrene was produced by the dehydrogenation of ethylbenzene. Thermal cracking of propane resulted in the production of ethylene, which was combined with benzene in a separate process area approximately 200 feet south of the parcel to produce ethylbenzene. Former plancor facilities identified within the parcel area included:

- A styrene production/propane cracking process building;
- A control room building,
- An aboveground quench water/oil separator tank; and
- Underground pipelines used for transport of surface water runoff and/or wastewater.

Historical documents indicate that, in addition to the chemicals listed above, hydrochloric acid, sulfuric acid, ethylchloride, aluminum chloride, iron-oxide catalyst and tertiary butyl catechol may have been used in the production of styrene, although the location of storage facilities for these chemicals is unknown. By-products of the styrene production process included heavy oils, tar, and coke, which were either disposed of in the Waste Pit Area (located approximately 1,400 feet south of the parcel area) or recycled and used as boiler fuel.



**LOCATION MAP**  
**Parcel 7351-034-045**



### Legend

-  Soil gas sampling location
-  Soil boring
-  Parcel boundary
-  Cooling Tower #3
-  Acetone / Acetonitrile
-  Approximate location of former underground pipelines with a potential to have transported VOC-containing fluids



**SAMPLING LOCATIONS  
AND HISTORICAL FEATURES**  
Parcel No. 7351-034-045



**SUMMARY OF ANALYTICAL DATA  
PARCEL 7351-034-045**

Sample Media	Location	Depth (ft. bgs)	Date	Analysis Class	Analyte	Concentration	Screening Criteria Exceeded
Shallow Soil Gas (<= 15')	SGL0592	7.00	03/15/94	VOCs	1,1,1-Trichloroethane	0.16 ppmv	
					Tetrachloroethene	0.014 ppmv	
	SGL0689	7.00	03/29/94	VOCs	Tetrachloroethene	1.6 ppmv	
	SGL0690	7.00	03/29/94	VOCs	Tetrachloroethene	0.64 ppmv	
	SGL0691	7.00	03/29/94	VOCs	1,1-Dichloroethene	0.026 ppmv	
					Acetone	0.23 ppmv	
					Freon 11	1.3 ppmv	
					Freon 113	2.9 ppmv	
Shallow Soil (<= 15')	SBL0329	1.50	05/15/03	SVOCs/PAHs	2-Methylnaphthalene	0.1 mg/kg	
					Acenaphthene	0.011 mg/kg	
					Acenaphthylene	0.054 mg/kg	
					Anthracene	0.013 mg/kg	
					Benzo(a)anthracene	0.02 mg/kg	
					Benzo(a)pyrene	0.013 mg/kg	
					Benzo(b)fluoranthene	0.0076 mg/kg	
					Benzo(g,h,i)perylene	0.0049 mg/kg	
					Benzo(k)fluoranthene	0.0063 mg/kg	
					Chrysene	0.021 mg/kg	
					Dibenzo(a,h)anthracene	0.0031 mg/kg	
					Fluoranthene	0.034 mg/kg	
					Fluorene	0.02 mg/kg	
					Indeno(1,2,3-c,d)pyrene	0.0036 mg/kg	
					Naphthalene	0.0041 mg/kg	
	Phenanthrene	0.075 mg/kg					
	Pyrene	0.089 mg/kg					
	7.00	05/15/03	VOCs		All ND		
SBL0412	7.20	09/03/03	SVOCs/PAHs	2-Methylnaphthalene	0.00047 mg/kg		
				Anthracene	0.00049 mg/kg		
				Benzo(a)anthracene	0.0016 mg/kg		
				Benzo(a)pyrene	0.001 mg/kg		
				Benzo(b)fluoranthene	0.00088 mg/kg		
				Benzo(k)fluoranthene	0.0005 mg/kg		
				Chrysene	0.0016 mg/kg		
				Fluoranthene	0.0012 mg/kg		
				Naphthalene	0.0008 mg/kg		
Phenanthrene	0.0034 mg/kg						

**SUMMARY OF ANALYTICAL DATA  
PARCEL 7351-034-045**

<b>Sample Media</b>	<b>Location</b>	<b>Depth (ft. bgs)</b>	<b>Date</b>	<b>Analysis Class</b>	<b>Analyte</b>	<b>Concentration</b>	<b>Screening Criteria Exceeded</b>
Shallow Soil (<= 15')	SBL0412	7.20	09/03/03	SVOCs/PAHs	Pyrene	0.0027 mg/kg	