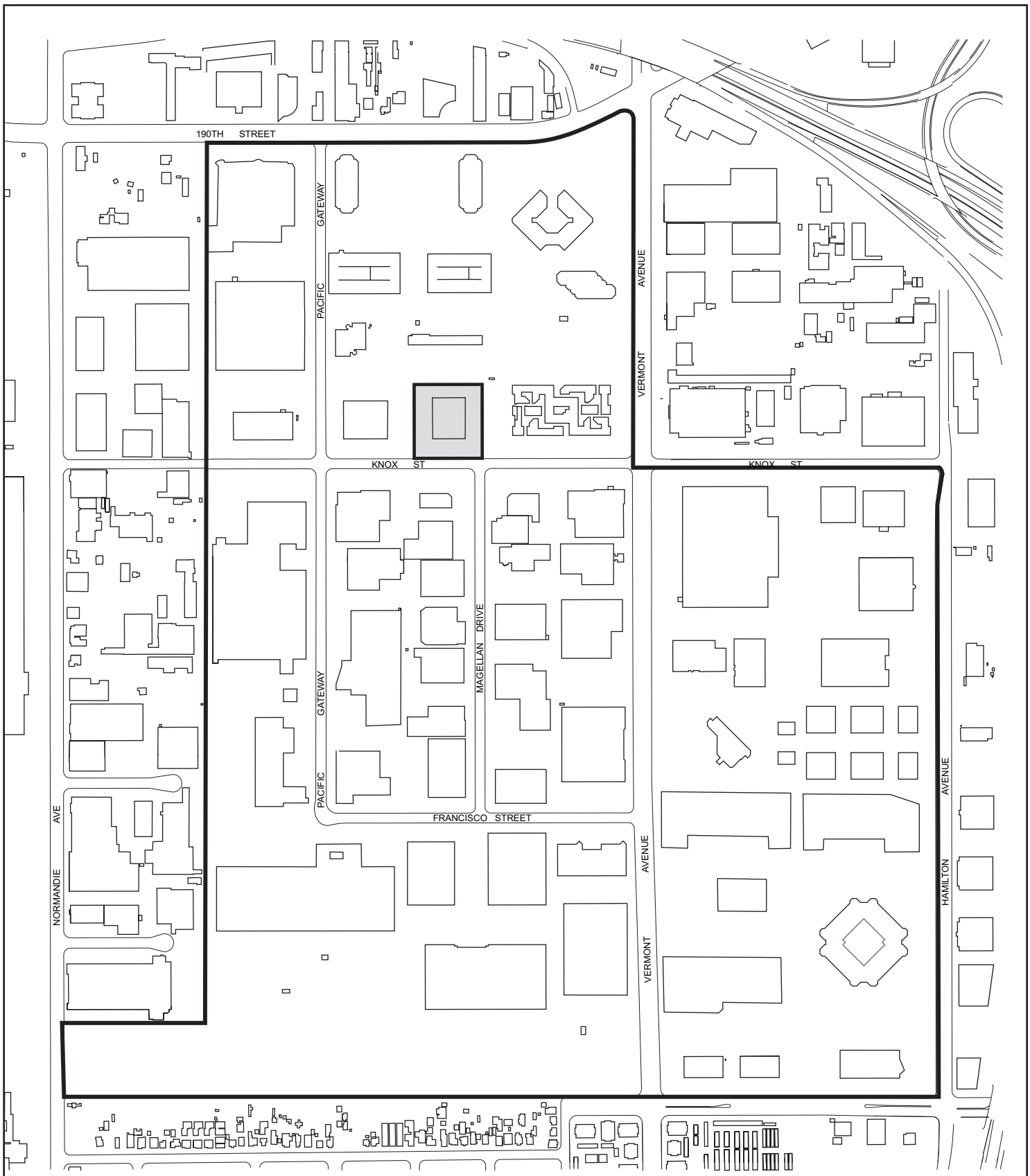
## PARCEL 7351-031-018

Parcel 7351-031-018 is located in the central portion of the former Copolymer Plancor. Butadiene and styrene were polymerized to produce synthetic rubber in the Copolymer Plancor during its period of operation. Blending of butadiene, styrene and additives in a reactor resulting in polymerization and formation of synthetic rubber was completed in the central and eastern portions of the parcel. Carbon black (soot), a reinforcing filler added to rubber to improve its durability, was prepared in the extreme western end of the parcel during the operational period of the Copolymer Plancor. Former plancor facilities identified within parcel 7351-031-018 are as follows:

- A portion of a carbon black building;
- A portion of a slurry pit associated with carbon black;
- A reactor facility with associated “solution blend vessels;
- Aboveground storage tanks used for storage of “blowdown” and oil;
- A contractors building; and
- Two small buildings of unknown use.

"Blowdown" is liquids or solids released from a pressurized vessel. The release is typically conducted to reduce the level of undesirable components from the product contained within the vessel. The composition of the blowdown at this parcel is unknown.

T\Ladd\DelAmo\794-173



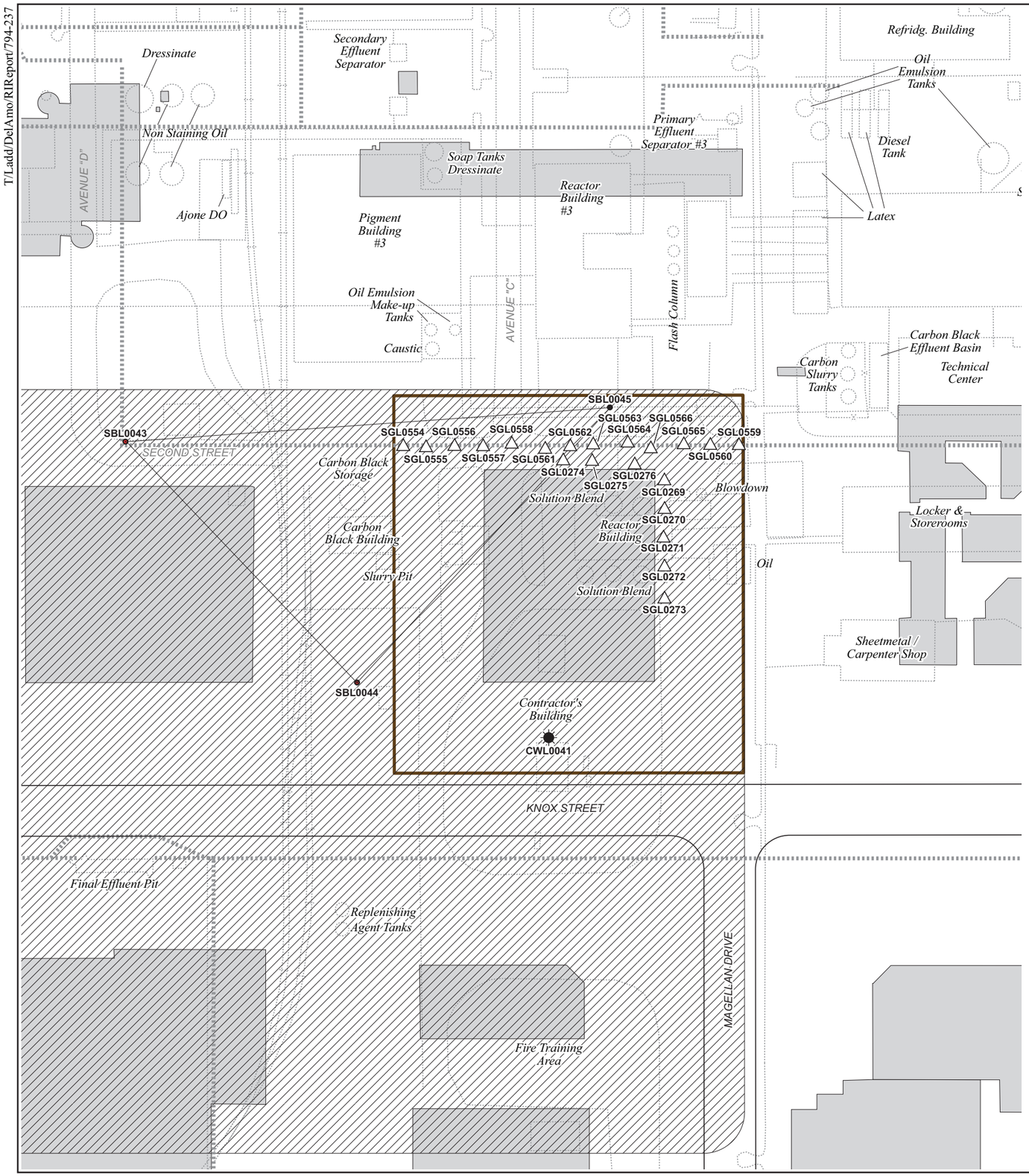

N

0 600 1,200

Scale in Feet

**LOCATION MAP**
**Parcel 7351-031-018**

T/Ladd/DelAmo/RIReport/794-237




## Legend

- Soil gas sampling location
- Composite soil sampling location
- Temporary well point
- 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

0 100 200
Scale in Feet

**SAMPLING LOCATIONS AND HISTORICAL FEATURES**
**Parcel No. 7351-031-018**

URS

# SUMMARY OF ANALYTICAL DATA
# PARCEL 7351-031-018

| Sample Media | Location | Depth (ft. bgs) | Date | Analysis Class | Analyte | Concentration | Screening Criteria Exceeded |
|---|---|---|---|---|---|---|---|
| Shallow Soil Gas (<= 15') | SGL0269 | 6.50 | 04/16/93 | VOCs | | All ND | |
| | SGL0270 | 6.50 | 04/16/93 | VOCs | | All ND | |
| | SGL0271 | 6.50 | 04/16/93 | VOCs | 1,1,1-Trichloroethane | 0.073 ppmv | |
| | | | | | 1,2,4-Trimethylbenzene | 0.010 ppmv | |
| | | | | | 1,2-Dichlorobenzene | 0.0012 ppmv | |
| | | | | | 1,3,5-Trimethylbenzene | 0.0022 ppmv | |
| | | | | | 1,4-Dichlorobenzene | 0.0010 ppmv | |
| | | | | | 4-Ethyl Toluene | 0.0075 ppmv | |
| | | | | | Acetone | 0.022 ppmv | |
| | | | | | Acetonitrile | 0.026 ppmv | |
| | | | | | Benzene | 0.011 ppmv | |
| | | | | | Ethylbenzene | 0.0092 ppmv | |
| | | | | | Freon 11 | 0.0013 ppmv | |
| | | | | | Freon 113 | 0.0012 ppmv | |
| | | | | | Methyl Ethyl Ketone | 0.0056 ppmv | |
| | | | | | Tetrachloroethene | 0.0015 ppmv | |
| | | | | | Toluene | 0.015 ppmv | |
| | | | | | Trichloroethene | 0.16 ppmv | |
| | | | | | Xylenes (Total) | 0.023 ppmv | |
| | SGL0272 | 6.50 | 04/16/93 | VOCs | | All ND | |
| | SGL0273 | 6.50 | 04/16/93 | VOCs | | All ND | |
| | SGL0274 | 5.00 | 04/16/93 | VOCs | | All ND | |
| | SGL0275 | 4.50 | 04/16/93 | VOCs | | All ND | |
| | SGL0276 | 6.50 | 04/16/93 | VOCs | | All ND | |
| | SGL0554 | 7.00 | 03/10/94 | VOCs | Tetrachloroethene | 0.012 ppmv | |
| | SGL0555 | 7.00 | 03/10/94 | VOCs | Tetrachloroethene | 0.010 ppmv | |
| | SGL0556 | 7.00 | 03/10/94 | VOCs | | All ND | |
| | SGL0557 | 10.0 | 03/10/94 | VOCs | Tetrachloroethene | 0.017 ppmv | |
| | SGL0558 | 10.0 | 03/10/94 | VOCs | Acetone | 0.048 ppmv | |
| | | | | | Ethylbenzene | 0.019 ppmv | |
| | | | | | Freon 11 | 1.2 ppmv | |
| | | | | | Freon 12 | 0.14 ppmv | |
| | | | | | Tetrachloroethene | 0.013 ppmv | |
| | | | | | Xylenes (Total) | 0.0087 ppmv | |
| | SGL0559 | 5.00 | 03/10/94 | VOCs | | All ND | |
| | SGL0560 | 7.00 | 03/10/94 | VOCs | | All ND | |
| | SGL0561 | 7.00 | 03/11/94 | VOCs | Tetrachloroethene | 0.026 ppmv | |



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# SUMMARY OF ANALYTICAL DATA
# PARCEL 7351-031-018

| Sample Media | Location | Depth (ft. bgs) | Date | Analysis Class | Analyte | Concentration | Screening Criteria Exceeded |
|---|---|---|---|---|---|---|---|
| Shallow Soil Gas (<= 15') | SGL0562 | 7.00 | 03/11/94 | VOCs | | All ND | |
| | SGL0563 | 7.00 | 03/11/94 | VOCs | | All ND | |
| | SGL0564 | 7.00 | 03/11/94 | VOCs | | All ND | |
| | SGL0565 | 7.00 | 03/11/94 | VOCs | | All ND | |
| | SGL0566 | 7.00 | 03/11/94 | VOCs | | All ND | |
| Shallow Soil (<= 15') | SBL0045 | 4.70 | 02/16/93 | Pest./PCBs | | All ND | |
| | | | | Metals | Al | 21,000 mg/kg | |
| | | | | | As | 2.2 mg/kg | |
| | | | | | Ba | 88 mg/kg | |
| | | | | | Be | 0.49 mg/kg | |
| | | | | | Ca | 4,100 mg/kg | |
| | | | | | Cd | 15 mg/kg | |
| | | | | | Co | 11 mg/kg | |
| | | | | | Cr | 22 mg/kg | |
| | | | | | Cu | 19 mg/kg | |
| | | | | | Fe | 26,000 mg/kg | |
| | | | | | K | 4,200 mg/kg | |
| | | | | | Mg | 6,700 mg/kg | |
| | | | | | Mn | 390 mg/kg | |
| | | | | | Na | 720 mg/kg | |
| | | | | | Ni | 13 mg/kg | |
| | | | | | Pb | 13 mg/kg | |
| | | | | | V | 43 mg/kg | |
| | | | | | Zn | 49 mg/kg | |
| | | | | Cyanide | Cyanide | ND | |
| | | 6.80 | 02/19/93 | Pest./PCBs | | All ND | |
| | | | | Metals | Al | 14,000 mg/kg | |
| | | | | | Ba | 93 mg/kg | |
| | | | | | Be | 0.42 mg/kg | |
| | | | | | Ca | 3,500 mg/kg | |
| | | | | | Cd | 15 mg/kg | |
| | | | | | Co | 9.7 mg/kg | |
| | | | | | Cr | 15 mg/kg | |
| | | | | | Cu | 16 mg/kg | |
| | | | | | Fe | 20,000 mg/kg | |
| | | | | | K | 3,700 mg/kg | |
| | | | | | Mg | 5,500 mg/kg | |



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# SUMMARY OF ANALYTICAL DATA
# PARCEL 7351-031-018

| Sample Media | Location | Depth (ft. bgs) | Date | Analysis Class | Analyte | Concentration | Screening Criteria Exceeded |
|---|---|---|---|---|---|---|---|
| Shallow Soil (<= 15') | SBL0045 | 6.80 | 02/19/93 | Metals | Mn | 370 mg/kg | |
| | | | | | Na | 640 mg/kg | |
| | | | | | Ni | 10 mg/kg | |
| | | | | | V | 32 mg/kg | |
| | | | | | Zn | 41 mg/kg | |
| | | | | Cyanide | Cyanide | ND | |
| | | 9.00 | 02/15/93 | VOCs | | All ND | |
| | | | | SVOCs/PAHs | | All ND | |
| | | | 02/16/93 | Pest./PCBs | | All ND | |
| | | | | Metals | Al | 16,000 mg/kg | |
| | | | | | Al | 16,000 mg/kg | |
| | | | | | As | 2.7 mg/kg | |
| | | | | | As | 2.7 mg/kg | |
| | | | | | Ba | 100 mg/kg | |
| | | | | | Ba | 100 mg/kg | |
| | | | | | Be | 0.41 mg/kg | |
| | | | | | Be | 0.41 mg/kg | |
| | | | | | Ca | 4,400 mg/kg | |
| | | | | | Ca | 4,400 mg/kg | |
| | | | | | Cd | 15 mg/kg | |
| | | | | | Cd | 15 mg/kg | |
| | | | | | Co | 10 mg/kg | |
| | | | | | Co | 10 mg/kg | |
| | | | | | Cr | 18 mg/kg | |
| | | | | | Cr | 18 mg/kg | |
| | | | | | Cu | 20 mg/kg | |
| | | | | | Cu | 20 mg/kg | |
| | | | | | Fe | 24,000 mg/kg | |
| | | | | | Fe | 24,000 mg/kg | |
| | | | | | K | 4,300 mg/kg | |
| | | | | | K | 4,300 mg/kg | |
| | | | | | Mg | 6,700 mg/kg | |
| | | | | | Mg | 6,700 mg/kg | |
| | | | | | Mn | 390 mg/kg | |
| | | | | | Mn | 390 mg/kg | |
| | | | | | Na | 560 mg/kg | |
| | | | | | Na | 560 mg/kg | |



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# SUMMARY OF ANALYTICAL DATA
# PARCEL 7351-031-018

| Sample Media | Location | Depth (ft. bgs) | Date | Analysis Class | Analyte | Concentration | Screening Criteria Exceeded |
|---|---|---|---|---|---|---|---|
| Shallow Soil (<= 15') | SBL0045 | 9.00 | 02/16/93 | Metals | Ni | 12 mg/kg | |
| | | | | | Ni | 12 mg/kg | |
| | | | | | Pb | 8.6 mg/kg | |
| | | | | | Pb | 8.6 mg/kg | |
| | | | | | V | 40 mg/kg | |
| | | | | | V | 40 mg/kg | |
| | | | | | Zn | 46 mg/kg | |
| | | | | | Zn | 46 mg/kg | |
| | | | | Cyanide | Cyanide | ND | |
| | | 12.3 | 02/25/93 | Pest./PCBs | | All ND | |
| | | | | Metals | Al | 11,000 mg/kg | |
| | | | | | As | 2.3 mg/kg | |
| | | | | | Ba | 110 mg/kg | |
| | | | | | Be | 0.33 mg/kg | |
| | | | | | Ca | 4,700 mg/kg | |
| | | | | | Cd | 13 mg/kg | |
| | | | | | Co | 8.4 mg/kg | |
| | | | | | Cr | 13 mg/kg | |
| | | | | | Cu | 15 mg/kg | |
| | | | | | Fe | 17,000 mg/kg | |
| | | | | | K | 2,700 mg/kg | |
| | | | | | Mg | 5,500 mg/kg | |
| | | | | | Mn | 300 mg/kg | |
| | | | | | Na | 440 mg/kg | |
| | | | | | Ni | 9.8 mg/kg | |
| | | | | | V | 28 mg/kg | |
| | | | | | Zn | 38 mg/kg | |
| | | | | Cyanide | Cyanide | ND | |
| Deep Soil (> 15') | SBL0045 | 17.0 | 02/17/93 | VOCs | | All ND | |
| | | | | SVOCs/PAHs | | All ND | |
| Groundwater - Water Table | CWL0041 | NA | 03/08/93 | VOCs | **Benzene** | **43 ug/l** | **CA MCL (1)** |
| | | | | | Methyl Ethyl Ketone | 64 ug/l | |
| | | | | | Toluene | 3.4 ug/l | |
| | | | | | Xylenes (Total) | 1.2 ug/l | |



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