SUBSURFACE INVESTIGATION
PHASE 1 REPORT OF FINDINGS

FORMER ANGELES CHEMICAL COMPANY
8915 SORENSEN AVENUE
SANTA FE SPRINGS, CALIFORNIA

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Report of Findings
Former Angeles Chemical Company
0702-171
October 15, 2002

1.0) INTRODUCTION

Blakely Environmental Investigations, Inc. (BEII) was contracted by Greve Financial Services, Inc. ((310) 753-5770) to perform a soil gas survey (SGS) to determine the lateral extent of volatile organic compounds (VOCs) in soil vapors along the southern and eastern property line of the former Angeles Chemical Co. (Angeles) facility located at 8915 Sorensen Avenue, Santa Fe Springs, California (See Figure 1, Site Location Map). In addition, a SGS was performed on the Air Liquide property located north of the Angeles facility. Furthermore, two soil borings and two groundwater wells were advanced to define the lateral and vertical extent of impacted soil along the eastern Angeles property line and to determine the extent of impacted groundwater. The SGS, boring advancement, and well installation was performed at the request of the Department of Toxics Substance Control (DTSC), the regulatory lead agency, to help determine the extent of volatile organic compounds (VOCs) identified in OU-1 (operable unit) along the northern railroad spurs and OU-2 along the southern boundary of the property. This report details the results of this first of several phases of subsurface investigation work to be performed at the site as requested by the DTSC.

2.0) SITE LOCATION AND HISTORY

The site is approximately 1.8 acres in size and completely fenced. The site was bound to Sorensen Avenue on the east, Liquid Air Corporation to the northwest, Plastall Metals Corporation to the north, and a Southern Pacific Railroad easement and Mckesson Chemical Company to the south.

The property was owned by Southern Pacific Transportation Company and was not developed until 1976.

The Angeles Chemical Company has operated as a chemical repackaging facility since 1976. A total of thirty-four (34) underground storage tanks (USTs) existed beneath the site. Two USTs, one gasoline and one diesel, and ten chemical USTs were excavated and removed under the oversight of the Santa Fe Springs Fire Department. Twelve (12) chemical USTs were decommissioned in place and slurry filled. Ten (10) remaining USTs used for secondary containment of surface runoff were decommissioned by removal or slurry filling in July 2001, under the oversight of the Santa Fe Springs Fire Department. Chemicals which have been stored and used on site include, but are not limited to, acetone, methylene chloride, 1,1,1-trichloroethane (1,1,1-TCA), tetrachloroethene (PCE), methyl ethyl ketone (MEK), toluene, xylene, kerosene, diesel, and unleaded gasoline.

In January 1990, SCS conducted a site investigation. SCS advanced eight borings from 5' below grade (bg) to 50' bg. Soil samples collected and analyzed identified benzene, 1,1-

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Dichloroethane (1,1-DCA), 1,1-Dichloroethene (1,1-DCE), MEK, methyl isobutyl ketone (MIBK), toluene, 1,1,1-TCA, PCE, and xylenes at detectable concentrations.

In June 1990, SCS performed an additional site investigation at the site by advancing six additional borings advanced from 20.5' bg to 60' bg. A monitoring well (MW-1) was also installed. Soil sample analysis identified detectable concentrations of the above mentioned VOCs in addition to acetone and methylene chloride. Dissolved benzene, 1,1-DCA, 1,1-DCE, PCE, TCE, and trans-1,2-dichloroethene were detected in MW-1 above maximum contaminant levels.

Between 1993 and 1994, SCS performed further testing at the site. Soil samples were collected from nine borings. Five borings were converted to groundwater monitoring wells MW-2, MW-3, MW-4, MW-6, and MW-7 (See Figure 2, SCS Well/Boring Location Map). The predominant compounds detected in soil were acetone, MEK, MIBK, PCE, toluene, 1,1,1-TCA, TCE, and xylenes. Groundwater sample collection performed in February 1994 by SCS identified the following using EPA method 624 (laboratory results included in Remedial Investigation Report dated August 1994 by SCS):

Component Analyzed	MW-1	MW-2	MW-3	MW-4	MW-6	MW-7
Benzene	194	<100	63	111	795	46
1,1-DCA	649	1,130	85	1,410	2,260	2,130
1,2-DCA	<100	<100	<50	<100	1,140	31
1,1-DCE	2,210	2,460	2,800	806	1,240	151
Ethylbenzene	333	1,720	115	1,180	1,910	45
Methylene Chloride	1,220	2,980	6,530	4,760	21,400	<50
PCE	662	2,150	5,370	3,320	2,130	134
Toluene	560	7,390	579	12,700	13,500	398
1,1,1-TCA	9,370	3,470	444	36,200	114,000	90
TCE	7,160	3,040	1,730	14,300	1,320	45
Xylenes	1,750	7,790	1,014	4,362	4,710	186
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L

In 1996, SCS performed separate soil vapor extraction pilot testing beneath the site at approximately 10' bg and 22' bg. Laboratory analysis identified maximum soil vapor gas concentrations as 1,1,1-TCA (30,300 ppmV) with detectable concentrations of 1,1-DCE, TCE, methylene chloride, toluene, PCE and xylenes. The maximum radius of influence from the various extraction units used were measured as 35 feet at 10' bg and 80 feet at 22' bg.

In November 1997, SCS performed a SGS at the site. Soil vapor samples were collected at twenty-three locations at 5' bg. In addition, soil vapor samples were collected at 15' bg in

five of the twelve sampling points. The soil vapor survey identified maximum VOC contaminants near the railroad tracks on site, the location where a rail tanker reportedly had an accidental release.

In September 2000, Blaine Tech Services, Inc. gauged the six on-site monitoring wells (MW-1, MW-2, MW-3, MW-4, MW-6, and MW-7) under the supervision of BEII. Free product (FP) was identified in monitoring well MW-4 at 0.21-feet in thickness. Approximately 0.5 liters of FP were removed from the well and placed in a sealed 55-gallon drum.

BEII performed a SGS at the site from November 27 to December 1, 2000. A total of 36 soil vapor sample points, labeled SV1 through SV36, were selected by BEII and approved by the DTSC for analysis. Two discrete soil vapor samples were collected from each soil vapor sample point, one at 8' bg and one at 20' bg. SV1 was an exception since the first soil vapor sample was collected at 10' bg instead of 8' bg. Based on the soil vapor sample results, BEII identified relatively low level concentrations of VOCs in the silty clay soils at 8' bg. However, the concentrations of VOCs are significantly higher in the sandy soils at 20' bg in OU-1. Results were submitted to the DTSC by BEII in a Report of Findings dated January 10, 2001 with laboratory reports.

On November 30, 2000, Blaine Tech Services, Inc. (Blaine) was contracted to perform groundwater sampling at the site. Groundwater monitoring wells MW-4 and MW-6 were not sampled due to insufficient water and presence of free product. These wells were installed to monitor a perched groundwater body to the north. Free product was identified in MW-1 during sample collection, upon completion of well purging. The potentiometric groundwater level was above the well screen. Groundwater purging lowered the potentiometric level below the screened interval, allowing free product to enter. Groundwater sample analysis identified thirteen constituents of concern (COCs) in the dissolved phase as VOCs only. Laboratory analysis of metals and SVOCs identified concentrations below allowable levels for those constituents. Results were submitted by BEII to the DTSC in a Report of Findings dated January 10, 2001 with laboratory reports.

The remaining USTs have been excavated or slurry filled for closure under the supervision of the Santa Fe Springs fire Department. A report was be submitted to the DTSC upon completion by EREMCO.

3.0) REGIONAL GEOLOGY/HYDROGEOLOGY

The site is located near the northern boundary of the Santa Fe Springs Plain within the Los Angeles Coastal Plain at an elevation of approximately 150 feet above mean sea level. Surficial sediments consist of fluvial deposits composed of inter-bedded gravel, sand, silt, and

clay. Available data from California Water Resources Bulletin No. 104 (June 1961) indicate that the surficial sediments may be Holocene and/or part of the upper Pleistocene Lakewood Formation, which ranges from 40 to 50 feet thick beneath the site. The Lakewood Formation has lateral lithologic changes with discontinuous permeable zones that vary in particle size. Stratified deposits of sand, silty sand, silt, and fine gravel comprising the upper portion of the lower Pleistocene San Pedro Formation underlies the Lakewood Formation.

The site lies within the Central Basin Pressure area, a division of the Central Ground Water Basin, which extends over most of the Coastal Plain. The Gasper aquifer, a part of the basal coarse unit of Holocene deposits, is found within old channels of the San Gabriel and other rivers. The Gasper aquifer may be 40-feet in thickness, with its base at a depth of about 80 to 100-feet bg. The underlying Gage aquifer is found within the upper Pleistocene Lakewood Formation. The Hollydale aquifer is the uppermost regional aquifer in the San Pedro Formation. Bulletin 104 indicates that this aquifer averages approximately 30-feet in thickness in this area, with its top at a depth of about 70 feet bg. The major water producing aquifers in the region are the Lynwood aquifer located approximately 200-feet bg, the Silverado aquifer located at approximately 275-feet bg, and the Sunnyside aquifer located at approximately 600-feet bg.

4.0) SITE GEOLOGY/HYDROGEOLOGY

SCS identified silty clays with some minor amounts of silt and sand in the shallow subsurface from surface grade to approximately 15' bg. Below the silty clay, poorly sorted coarse-grained sand and gravel was identified from 15' bg to 26' bg. SCS referenced a less permeable silty clay layer between 35' and 50' bg, which contained stringers of fine sand and silt that is part of the Gaspur/Hollydale aquifer.

A perched aquifer was encountered at approximately 23' bg by SCS and referenced as such by SCS. Based on a review of McKesson files, Harding Lawson Associates (HLA) stated that in January 1975 prior to McKesson operating their neighboring facility, no groundwater was encountered to a depth of 45' bg beneath the McKesson property. In March 1986, during operation of the neighboring McKesson facility, groundwater was encountered at 22' bg beneath the McKesson property as stated by HLA. Based on the HLA statements, BEII concludes with SCS that the first encountered groundwater is part of a shallow perched aquifer. Monitoring wells MW-4 and MW-6 will be noted as perched water monitoring wells.

SCS also referenced that the Gaspur/Hollydale aquifer was encountered at 20' to 35' bg beneath the site. Further review of Bulletin 104 by BEII, identified that the SCS referenced Gaspur/Hollydale aquifer was in fact the Gage/Hollydale aquifer. Monitoring wells MW-1, MW-2, MW-3, and MW-7 will be noted as Gage/Hollydale monitoring wells.

The groundwater gradient flowed historically to the southwest as identified by SCS. In February 2002, the groundwater was identified between 29.21' bg to 37.39' bg beneath the site. BEII recommends an additional monitoring well in the Gage/Hollydale Aquifer to calculate the groundwater gradient beneath the site, since monitoring wells MW-1, MW-2, and MW-3 are in a straight line of each other. Figure 3 contains the depth to water in each well in feet below grade with the well elevations given as feet above mean sea level.

5.0) SOIL GAS SURVEY (SGS) COLLECTION

BEII performed a SGS on the Angeles site from January 14 to January 17, 2002. The purpose of the soil gas survey was to determine the lateral extent of VOC soil vapors in the vadose zone along the eastern, northern, and southern property line of the site (OU-1 an OU-2). In addition, BEII performed a SGS on June 13, 2002 on the Air Liquide property to determine the lateral extent of VOC soil vapors in the vadose zone north of the Angeles facility (OU-1). A mobile laboratory provided by HP Labs was used at both SGS's for on-site field analysis to make real time field decisions. The work was approved and performed under the supervision of the DTSC, the lead regulatory agency overseeing the site and the direct supervision of a registered civil engineer.

A direct push rig provided by HP Labs was used to collect discrete soil vapor samples according to their standard operating procedure (SOP) submitted in the Subsurface Investigation Work Plan dated April 25, 2002 and approved by the DTSC. A total of thirty (30) soil gas sample points, labeled SV-37 through SV-67, were selected by BEII and the DTSC for analysis (See Figure 4 for BEII Soil Gas Sample Locations). Soil gas was collected at three discrete depths, 5' bg, 10' bg and 20' bg, in SV-39 through SV-44 along the southern property line. Soil gas sample points SV-62 and SV-63 were collected at 10.5' bg and SV-66 and SV-67 at 7' bg due to Strataprobe refusal. SV-61, SV-64, and SV-65 were collected at 12' bg and 20' bg. The remaining soil gas locations were sampled at two discrete depths, 8' bg and 20' bg.

Soil gas samples were collected in tight syringes and analyzed on-site by Mobile One Laboratories, Inc., a certified California Department of Health services mobile laboratory (certificate #s: 1194, 1561, 1921, 2088, and 2278) for VOCs using EPA method 8260 according to the Subsurface Investigation Work Plan dated April 25, 2002. Each syringe was properly labeled with the date and time of sample collection, the soil gas location, and depth. A total of six soil gas samples (SV-40 at 20' bg, SV-45 at 20' bg, SV-50 at 20' bg, SV-55 at 20' bg, SV-60 at 20' bg, and SV-65 at 20' bg) were also collected in Summa canisters for off-site analysis at Advanced Technology Laboratories or STS Laboratories using EPA method TO14. Soil gas sample collection was performed in accordance with LARWQCB guidelines and the field sampling plan submitted in the Subsurface Investigation Work Plan dated April 25, 2002, which was approved by the DTSC.

A tracer test using isopropyl alcohol was conducted as quality assurance for soil gas sample collection at the request and supervision of the DTSC. No detectable concentrations of isopropyl alcohol were identified in all soil gas samples analyzed. Soil gas results identified that the collection apparatus was adequate for collection of a representative soil gas sample.

In addition, a site-specific purge volume versus contaminant concentration test was performed prior to the soil vapor survey. Based on the soil vapor results, a minimum purge rate of three volumes (approximately 87 cubic centimeters) was determined adequate for the site.

6.0) SOIL GAS SURVEY (SGS) RESULTS

The soil gas survey results identified eleven detectable constituents of concern (COCs) in the vapor phase beneath the site (See Appendix A for laboratory results). The eleven COCs identified in soil gas for the site are as follows: Benzene, 1,1-DCA, 1,1-DCE, cis-1,2-DCE, Ethylbenzene, PCE, 1,1,1-TCA, TCE, Toluene, Xylene, and Vinyl Chloride (VC). PCE, 1,1,1-TCA, Toluene, and Xylene were stored on-site; 1,1-DCA, 1,1-DCE, cis-1,2-DCE, TCE, and VC are transform products of PCE, TCE, and 1,1,1 TCA; and Benzene and Ethylbenzene are components of gasoline, which was also stored on-site.

Based on the soil gas survey results, BEH identified relatively low level concentrations of COCs in the silty clay soils at 5' bg, 7'bg, 8' bg, 10' bg, and 12' bg (See Table 1 through Table 3 for soil gas results). However, the concentrations of COCs are significantly higher in the sandy soils at 20' bg, which are more permeable and conducive to soil vapor migration. Furthermore, January and June 2002 COC soil gas concentrations were higher along the southern property line (OU-2) than along the east and north property line. Figures 5 through 28 identify the January and June 2002 soil vapor concentrations of the COCs beneath the site at 5' bg, 7' to 12' bg, and 20' bg.

Soil gas BTEX concentrations were identified along the southern property line at 5' bg with a maximum of 14.9 µg/L in SV-42 (See Figure 5). At 7' to 12' bg, BTEX concentrations in soil gas were identified along both the southern and northern property line. However, the majority of soil gas BTEX concentrations were contained to the south with a maximum concentration of 132 µg/L in SV-42 (See Figure 6). The soil lithology was mostly silty clay from surface to 19' bg. Figure 7 also identified BTEX concentrations in soil gas along both the southern and northern property line at 20' bg. The maximum BTEX was identified in SV-47 located near the southern property line at 1,594 µg/L, with four other nearby soil gas points above 1,000 µg/L. The highest soil gas BTEX concentration to the north was only 224.7 µg/L in SV-64. The elevated soil gas BTEX concentrations identified along such a large extent of the south side suggest that an off-site source may exist or existed to the south.

Concentrations of 1,1 DCA, a transform compound of 1,1,1 TCA and 1,1 DCE, were detected in soil gas at 5' bg along the southern property line at a maximum of 67 µg/L in SV-41 (See Figure 8). Soil gas concentrations of 1,1 DCA were detected at 7' to 12' bg along the northern and southern property lines with a maximum of 72 µg/L in SV-40 (See Figure 9). At 20' bg, 1,1 DCA soil gas concentrations were also identified along both the southern and northern property line. The concentrations of 1,1 DCA were detected at an order of magnitude higher in the permeable sands along the southern property boundary than the northern property line at 20' bg. The maximum 1,1 DCA soil gas concentration was 2,500 µg/L in SV-41 along the southern boundary with five nearby soil gas points above 1,000 µg/L (See Figure 10). Concentrations of 1,1 DCA were identified at a maximum of only 280 µg/L along the northern boundary in SV-64 at 20' bg. The higher concentrations of 1,1 DCA along most of the south property line suggest that an off-site source may be present to the south.

Soil gas concentrations of 1,1 DCE, a transform compound of 1,1,1 TCA and TCE, were identified along the southern property line at 5' bg with a maximum of 61 µg/L in SV-40 (See Figure 11). At 7' to 12' bg, 1,1 DCE concentrations in soil gas were identified along the southern, northern, and eastern property line. The maximum 1,1 DCE soil gas concentration was identified in SV-40 as 81 µg/L along the southern property line in the impermeable clays (See Figure 12). Figure 13 also identified 1,1 DCE concentrations in soil gas along the southern, northern, and eastern property line at 20' bg. The maximum 1,1 DCE soil gas concentration was identified in SV-64 at 1,100 µg/L in the permeable sands. The soil gas sample results identified an areally pervasive 1,1 DCE plume which suggests both an on-site and off-site source at 20' bg.

Concentrations of cis-1,2 DCE, a transform compound of 1,1,1 TCA and TCE, were detected in soil gas at 5' bg along the southern property line at a maximum of 37 µg/L in SV-44 (See Figure 14). Soil gas concentrations of cis-1,2 DCE were detected at 7' to 12' bg south, north, and east along the property lines with a maximum of 120 µg/L in SV-60 along the northern boundary (See Figure 15). At 20' bg, soil gas concentrations of cis-1,2 DCE were also identified along the southern, northern, and eastern property lines (See Figure 16). Three soil gas points in the permeable sands at 20' bg identified cis-1,2 DCE concentrations above 1,000 µg/L. One of the soil gas concentrations was located to the north in SV-64 as 3,200 µg/L and two soil gas concentrations were located along the southern property boundary in SV-43 and SV-47 as 1,200 µg/L and 1,000 µg/L, respectively. The soil gas cis-1,2 DCE concentrations identified an areally pervasive plume which suggests both an on-site and off-site source exist at 20' bg.

No significant soil gas concentrations of the parent compound PCE were identified by the SGS performed by BEII. Soil gas PCE concentrations were detected at 5' bg along the south property boundary at a maximum of 25 µg/L in SV-42 (See Figure 17). At 7' to 12' bg, PCE in

soil gas was detected greater than 5 µg/L in only two locations, SV-42 and SV-60 (See Figure 18). Concentrations of PCE in soil gas were detected north of the property at a maximum of 59 µg/L in SV-64 at 20' bg (See Figure 19). PCE in soil gas was also identified at a concentration of 12 µg/L in SV-39 along the southern property line with two other soil gas points <100 µg/L based on sample dilution. These relatively low level concentrations indicate that PCE has either biodegraded or a small volume was released into the vadose zone.

Soil gas concentrations of the parent compound 1,1,1 TCA were identified along the southern property line at 5' bg with a maximum of 58 µg/L in SV-40 (See Figure 20). At 7' to 12' bg, 1,1,1 TCA concentrations in soil gas were identified along both the southern and northern property line. Soil gas 1,1,1 TCA concentrations were identified at a maximum concentration of 250 µg/L in SV-60 to the north (See Figure 21). Maximum 1,1,1 TCA soil gas concentrations along the south were identified as 79 µg/L in SV-40. The soil lithology is mostly silty clay from surface to 19' bg. Figure 22 identified 1,1,1 TCA concentrations in soil gas along both the southern, eastern, and northern property line at 20' bg. The highest 1,1,1 TCA soil gas concentration was identified in SV-64 at 4,300 µg/L along the north side of the property and 330 µg/L along the south side of the property. The soil gas 1,1,1 TCA concentrations suggest both an on-site and off-site source exist.

No significant soil gas concentrations of the parent compound TCE were identified by the SGS performed by BEII. Soil gas TCE concentrations were detected below 5 µg/L at 5' bg and 7' to 12' bg in the impermeable clays (See Figures 23 and 24). The highest concentrations of TCE in soil gas were identified along the north at 20' bg in permeable sands as 170 µg/L and 100 µg/L in SV-64 and SV-65, respectively. TCE in soil gas was also identified at 20' bg along the southern property line at a concentration of 7.5 µg/L in SV-39 and <100 µg/L in SV-40 and SV-41 due to sample dilution (See Figure 25). These relatively low level concentrations indicate that TCE has either biodegraded or a small volume was released into the vadose zone.

Concentrations of vinyl chloride (VC), a transform compound of 1,1 DCA, 1,1 DCE, and cis 1,2 DCE, were detected as <5 µg/L in soil gas at 5' bg and 7' to 12' bg in the impermeable clays (See Figures 26 and 27). At 20' bg, soil gas concentrations of VC were identified along the southern and northern property lines (See Figure 28). However, the two greatest soil gas concentrations were located along the southern property boundary in SV-40 and SV-46 as 250 µg/L and 200 µg/L, respectively. The maximum VC soil gas concentration along the north was 14 µg/L in SV-64. The elevated soil gas VC concentrations identified along the south side in the permeable soils suggest that an off-site source may exist.

All sampling was conducted according to the Field Sampling Plan and all duplicates and other quality assurance measures were conducted according to the Quality Assurance Project

Plan, which were submitted in a work plan to the DTSC in April 2002. The above work was performed under the direct supervision of a California Registered Professional Engineer.

In an attempt to determine the extent of soil gas concentrations beneath the subsurface, BEII combined the results of the 2002 SGS with those from the 2001 SGS. However, because the soil gas samples were taken one year apart the concentrations may not b e representative of current site conditions. Figures 29 through 36 depict an estimated extent of soil gas concentrations at 20' bg for BTEX, 1,1 DCA, 1,1 DCE, cis-1,2 DCE, PCE, 1,1,1 TCA, TCE, and VC, respectively, based on the 2001 and 2002 SGS data combined.

7.0) BORING AND GROUNDWATER WELL SAMPLE COLLECTION

BEII advanced two soil borings (BSB-1 and BSB-2) and installed two groundwater monitoring wells (MW-8 and MW-9) on the Angeles site from June 5 to June 7, 2002. The purpose of the drilling was to help define the lateral and vertical extent of impacted soil along the eastern Angeles property line and to help determine the extent of impacted groundwater. The work was approved and performed under the supervision of the DTSC, the lead regulatory agency overseeing the site and the direct supervision of a registered civil engineer.

The locations of the two soil borings and two groundwater monitoring wells were selected based on previously collected site information and based on site data gaps (See Figure 37 for BEII well/boring locations). Soil samples were collected at significant changes in lithology, at observed signs of contamination, and as specified by on-site DTSC staff, Mr. Sanford Britt. Soil borings BSB-1 and BSB-2 were advanced to 50' bg and 30' bg, respectively. Monitoring wells MW-8 and MW-9 were installed to 40.5' bg and 45.5' bg, respectively (See Appendix B for Boring Logs/Well Construction). On-site BEII staff and DTSC staff were in agreement on boring termination, depths of soil sample collection, and well construction.

Subsurface samples were continuously cored and logged via a boring to the desired sample depth using a hollow stem auger drill rig equipped with a continuous core sampler to collect detailed information on site geology. Once the desired sample depth was reached, cuttings were set aside in a boring-dedicated container or on a boring-dedicated disposable tarp. A decontaminated continuous core sampler device was inserted into the hollow stem auger and advanced with the auger as to collect an undisturbed soil sample. The sampler contained two 3-inch by 30-inch clear acrylic liners for sample collection. All soil borings were logged by experienced field staff under the oversight of a Civil Engineer appropriately licensed in California. Soil borings were logged using the Unified Soil Classification System (USCS).

Samples to be analyzed for VOCs were collected first. Soil samples collected for VOC analysis were collected in accordance with EPA Method 5035 using the methanol and sodium

bisulfate field extraction protocol as submitted in the Subsurface Investigation Work Plan dated April 25, 2002. In order to provide the lowest detection limits possible, a total of two aliquots with sodium bisulfate were collected of each sample so that multiple-dilution runs can be performed by the laboratory. Selected soil samples were also analyzed for metals using EPA 7000 series, semi-volatile organic compounds (SVOCs) using EPA method 8270C, and total petroleum hydrocarbons (TPH) using EPA method 8015M. Samples were immediately placed in an iced cooler and processed for shipment to the laboratory. This procedure was repeated until all sampling depths were sampled. The borings were backfilled with bentonite chips and hydrated. The surface was repaired to match the surrounding surface. Details of the field sampling procedures, decontamination, waste containment, and waste removal procedures were included in the Subsurface Investigation Work Plan dated April 25, 2002, Appendix D, Field Sampling Plan.

Each new monitoring well was developed by swabbing and bailing three days after well installation. Development was conducted by swabbing and bailing in order to adequately clear the filter pack of formation fines. Completion of development was limited by two complete dewatering episodes in each well during repeated surging of the well by bailing. A total of 65 gallons of water was removed from MW-9 and 55 gallons of water was removed from MW-8 during well development. Development water was containerized on-site for disposal at a later date. Purging and sampling was conducted 4 days after well development. Groundwater samples were collected from the newly installed wells on June 14, 2002 during the next quarterly groundwater sampling event. Groundwater samples were collected and analyzed according to the October 23, 2001 Groundwater Monitoring Work Plan which was submitted and approved by the DTSC.

8.0) BORING AND GROUNDWATER WELL SOIL SAMPLE RESULTS

Visual inspection of the clear liners identified a silty clay to clay matrix from surface to a maximum depth of 19' bg in MW-8. An inter-bedded layer of sand exists from 10' bg to a maximum depth of 40' bg in MW-8. The sand is underlain with a silty clay to clay layer starting at 25' bg. The bottom impermeable silty clay/clay layer identified a maximum thickness of 22.5 feet in BSB-1 based on visual inspection of the clear liners. Groundwater was encountered in MW-8 and MW-9 at approximately 30' bg. Three soil samples from the fine-grained unit (0' to 15' bg) and three soil samples from the coarse-grained unit were submitted for laboratory analysis for physical parameters (See Appendix C for laboratory results). Sample results identified a permeability characteristic of fine-grained soils (10^{-6}) from 0' to 15' bg and a permeability characteristic of fine-grained soils (10^{-4}) from 15' to 30' bg.

Two cross sectional depictions of the site geology were based on the continuos core samples and previous geological descriptions by SCS. A more detailed cross-section will be

displayed once a site survey has been performed. Figure 38 shows the site lithology from south to north along A-A'. A permeable sand layer was identified site wide between 25' and 35' bg. The lithology identified monitoring well MW-8 as a low point ("sump") in the permeable sand. The sand layer between MW-1 and MW-8, a distance of 116 feet, dips from south to north with a 10-foot change in elevation. The sand then slopes back up from south to north just north of MW-8. Figure 39 shows the site lithology from west to east along B-B'. A permeable sand layer was identified site wide between 25' and 34' bg. The west-east lithology further supports that monitoring well MW-8 is a low point ("sump") in the permeable sand.

Soil sample analysis results from boring BSB-1 identified low levels of TPH as gasoline near surface at 1.5' bg (1.6 mg/kg) and along a lithologic boundary between sand and clay at 28' bg (1.2 mg/kg). No other detectable concentrations of TPH as gasoline were contained in the remaining eight soil samples analyzed for gasoline (See Table 4). TPH as diesel and motor oil were not detected in all ten soil samples analyzed for those compounds. Three soil samples collected from BSB-1 at 1.5' bg, 6.5' bg, and 10.5' bg were analyzed for metals and SVOCs (See Tables 5 for metals). Arsenic was detected as 8.8 mg/kg and 2.4 mg/kg at 6.5' bg and 10.5' bg, respectively. The EPA Preliminary Remediation Goals (PRGs) set for arsenic in residential soil is 22 mg/kg (non cancer endpoint) and 0.39 mg/kg (cancer endpoint). All remaining soil sample analysis results for metals were below their respective PRGs. No detectable concentrations of SVOCs were identified from BSB-1 in the three soil samples analyzed and were therefore not tabulated (See Appendix C for Laboratory Analytical Results).

A total of nine soil samples from BSB-1 were analyzed for seventy-one VOCs using EPA method 8260. Only seven VOCs (1,1 DCE, 1,1 DCA, cis-1,2 DCE, 1,1,1 TCA, Xylene, 1,2,4-Trimethylbenzene, and Naphthalene) were identified above detectable concentrations from the nine soil samples (See Table 6 for detected VOCs). Laboratory analysis identified maximum 1,1 DCE and 1,1,1 TCA concentrations as 222 µg/kg and 550 µg/kg at the bottom of the encountered sand layer at 27.5' bg. Concentrations attenuate to 80 µg/kg as 1,1 DCE at 45' bg and to <5 µg/kg as 1,1,1 TCA at 40' and 45' bg. Maximum 1,1 DCA and cis-1,2 DCE soil sample concentrations were identified at 28' bg, the top of an encountered clay layer in BSB-1. 1,1 DCA concentrations attenuate from 745 µg/kg at 28' bg to 148 µg/kg at 45' bg in soil. Cis-1,2 DCE concentrations attenuate from 1,580 µg/kg at 28' bg to 125 µg/kg at 45' bg in soil. Soil sample concentrations of Xylene, 1,2,4-Trimethylbenzene, and Naphthalene were detected exclusively at the top of the encountered clay layer at 28' bg as 130 µg/kg, 120 µg/kg, and 85 µg/kg, respectively.

Laboratory analysis results identified no detectable concentrations of TPH as gasoline in six soil samples collected from BSB-2. TPH as diesel and motor oil were not detected in all three soil samples analyzed for those compounds from BSB-2. Three soil samples collected from BSB-2 at 1.5' bg, 6.5' bg, and 11.5' bg were analyzed for metals and SVOCs. Arsenic was

detected in all three samples as 8.9 mg/kg, 3.2 mg/kg, and 3 mg/kg at 1.5' bg, 6.5' bg and 11.5' bg, respectively. The concentrations are above the PRG cancer endpoint (0.39 mg/kg) set for arsenic in residential soil. All remaining soil sample analysis results for metals were below their respective PRGs. No detectable concentrations of SVOCs were identified from BSB-2 in the three soil samples analyzed and were therefore not tabulated.

A total of six soil samples from BSB-2 were analyzed for seventy-one VOCs using EPA method 8260. Only five VOCs (1,1 DCE, 1,1 DCA, cis-1,2 DCE, 1,1,1 TCA, and PCE) were identified above detectable concentrations from the six soil samples. Laboratory analysis identified maximum 1,1 DCA and 1,1,1 TCA concentrations as 35 µg/kg and 55 µg/kg at 18' bg, the top of the encountered sand layer in BSB-2. Concentrations of both VOCs attenuate to non-detect at 21' bg. Soil sample results, however, identified an increase of 1,1 DCA as 18.5 µg/kg and 1,1,1 TCA as 42.5 µg/kg at 26.5' bg, near the top of an encountered clay layer. Soil sample concentrations of 1,1 DCE and cis-1,2,DCE were detected exclusively near the top of the encountered clay layer at 26.5' bg as 9.1 µg/kg and 22 µg/kg, respectively. PCE was identified in clayey soils at 14' bg exclusively as only 6.8 µg/kg.

Eleven soil samples were analyzed for TPH as gasoline from MW-8. TPH as gasoline was detected from 24' bg to 42.5' bg, which consisted mostly of a sandy matrix. The maximum TPH as gasoline concentration was identified in soil as 3,120 mg/kg at 32.5' bg and attenuates to 7.6 mg/kg at 42.5' bg in a clay layer. Concentrations of TPH as diesel were detected from 30' to 40' bg in an encountered sand layer with a maximum of 456 mg/kg at 32.5' bg. No detectable concentrations of TPH as diesel were identified at 42.5' bg in the encountered clay. TPH as motor oil was not detected in all ten soil samples analyzed for those compounds. Three soil samples collected from MW-8 at 1.5' bg, 6.5' bg, and 11.5' bg were analyzed for metals and SVOCs. Arsenic was detected in all three samples as 2 mg/kg, 8.3 mg/kg, and 1.2 mg/kg at 1.5' bg, 6.5' bg and 11.5' bg, respectively. The concentrations are above the PRG cancer endpoint (0.39 mg/kg) set for arsenic in residential soil. All remaining soil sample analysis results for metals were below their respective PRGs. No detectable concentrations of SVOCs were identified from MW-8 in the three soil samples analyzed and were therefore not tabulated.

A total of eleven soil samples from MW-8 were analyzed for seventy-one VOCs using EPA method 8260. Only seventeen VOCs (1,1 DCE, 1,1 DCA, cis-1,2 DCE, 1,1,1 TCA, 1,2 DCA, TCE, PCE, Isopropylbenzene, Benzene, Toluene, Ethylbenzene, Xylene, n-Propylbenzene, 1,3,5-Trimethylbenzene, 1,2,4-Trimethylbenzene, n-Butylbenzene, and Naphthalene) were identified above detectable concentrations from the eleven soil samples. All detected VOCs from MW-8 were at a maximum concentration at 32.5' bg, the depth groundwater was encountered. Soil sample analysis results identified low levels of 1,1 DCA, cis-1,2 DCE, and 1,1,1 TCA (maximum of 247 µg/kg at 19' bg) in both clay layers encountered in MW-8. Maximum concentrations of 1,1 DCA, cis-1,2 DCE, and 1,1,1 TCA (up to 42,800

µg/kg at 32.5' bg) were detected in an encountered permeable sand layer from 19' bg to 40' bg. Laboratory analysis identified maximum 1,1 DCE as 1850 µg/kg within the encountered sand layer at 32.5' bg. Concentrations of 1,1 DCE attenuate to <5 µg/kg at 35' bg then increase to 35 µg/kg in clay at 42.5' bg. Toluene, Ethylbenzene, Xylene,1,3,5-Trimethylbenzene, and 1,2,4-Trimethylbenzene soil sample concentrations were first identified in a permeable sand layer from 29' bg to 40' bg (up to 161,000 µg/kg). Concentrations of these VOCs attenuate by at least two orders of magnitude at 42.5' bg in an encountered clay layer. Soil sample results also identified elevated concentrations of Isopropylbenzene, n-Propylbenzene, n-Butylbenzene, and Naphthalene from 29' bg to 40' bg in the same permeable sand layer. However, soil sample concentrations of all four VOCs attenuate to <5 µg/kg at 42.5' bg in an encountered clay layer. Maximum TCE soil sample concentrations were identified at 35' bg, within an encountered sand layer in MW-8. TCE concentrations attenuate from 460 µg/kg at 35' bg to <5 µg/kg at 42.5' bg in soil. Benzene, 1,2 DCA, and PCE were detected exclusively at one depth; 62.5 µg/kg at 42.5' bg, 4950 µg/kg at 30' bg, and 160 µg/kg at 40' bg, respectively.

Soil sample analysis results from MW-9 identified TPH as gasoline exclusively at 15' bg as 1.3 mg/kg. No other detectable concentrations of TPH as gasoline were contained in the remaining nine soil samples analyzed for gasoline. TPH as diesel and motor oil were not detected in all ten soil samples analyzed for those compounds. Two soil samples collected from MW-9 at 3' bg and 5.5' bg were analyzed for metals and SVOCs. Arsenic was detected in both samples as 6.5 mg/kg and 6 mg/kg at 3' bg and 5.5' bg, respectively. The concentrations are above the PRG cancer endpoint (0.39 mg/kg) set for arsenic in residential soil. All remaining soil sample analysis results for metals were below their respective PRGs. No detectable concentrations of SVOCs were identified from MW-9 in the two soil samples analyzed and were therefore not tabulated.

A total of ten soil samples from MW-9 were analyzed for seventy-one VOCs using EPA method 8260. Only six VOCs (1,1 DCE, 1,1 DCA, cis-1,2 DCE, 1,1,1 TCA, TCE, and PCE) were identified above detectable concentrations from the ten soil samples. Laboratory analysis identified maximum 1,1 DCA and 1,1,1 TCA concentrations as 95 µg/kg and 35 µg/kg at 29' bg at the bottom of an encountered sand layer. Concentrations attenuate to <5 µg/kg as 1,1 DCA at 50' bg and to <5 µg/kg as 1,1,1 TCA at 35' bg. Maximum 1,1 DCE soil sample concentrations were identified at 35' bg in an inter-bedded clay layer and maximum cis-1,2 DCE soil sample concentrations were identified at 29' bg in an encountered sand layer in MW-9. 1,1 DCE concentrations attenuate from 85 µg/kg at 35' bg to 21.8 µg/kg at 50' bg in soil. Cis-1,2 DCE concentrations attenuate from 400 µg/kg at 29' bg to <5 µg/kg at 50' bg in soil. Soil sample maximum concentrations of PCE and TCE were detected at 3' bg as 24.8 µg/kg and 6.7 µg/kg, respectively.

9.0) CONCLUSIONS

Based on the SGS data, BEII concludes that an on-site and off-site source of VOCs in soil gas exists or existed in the subsurface beneath the former Angeles Chemical Company site. Soil gas sample results identified higher concentrations (>1,000 µg/L) as VOCs along the southern property boundary and along the northern on-site railroad spurs. These soil gas concentrations indicate an off-site source to the south and an on-site source along the railroad spurs.

Furthermore, soil gas concentrations of transform compounds (1,1 DCA, 1,1 DCE, cis 1,2 DCE, VC) were significantly higher than parent compounds (PCE, 1,1,1 TCA, and TCE). Transform compounds 1,1 DCA, 1,1 DCE, and cis 1,2 DCE were identified at concentrations greater than 1,000 µg/L a total of 10 times with a maximum of 3,200 µg/L as cis- 1,2 DCE. The parent compound 1,1,1 TCA identified concentrations greater than 1,000 µg/L a total of four times with a maximum of 4,300 µg/L. No other parent compounds were identified over 59 µg/L. Based on the SGS data, BEII also concludes that the parent compounds have decreased and transform compounds have increased, which is a primary indication of biodegradation.

Visual inspection of continuous core samples identified monitoring well MW-8 as the lowest point in the site wide permeable sand layer from 25' bg to 35' bg. The sand layer slopes down from south to north to MW-8 and then slopes up. The sand layer slopes down from west to east to MW-8 and then slopes up. Based on the lithology, BEII concludes that MW-8 is the sump of the permeable sand layer that slopes down from the south. Therefore, any off-site releases from neighboring properties to the south may significantly impact the subsurface under the Angeles site should their releases reach the permeable sands.

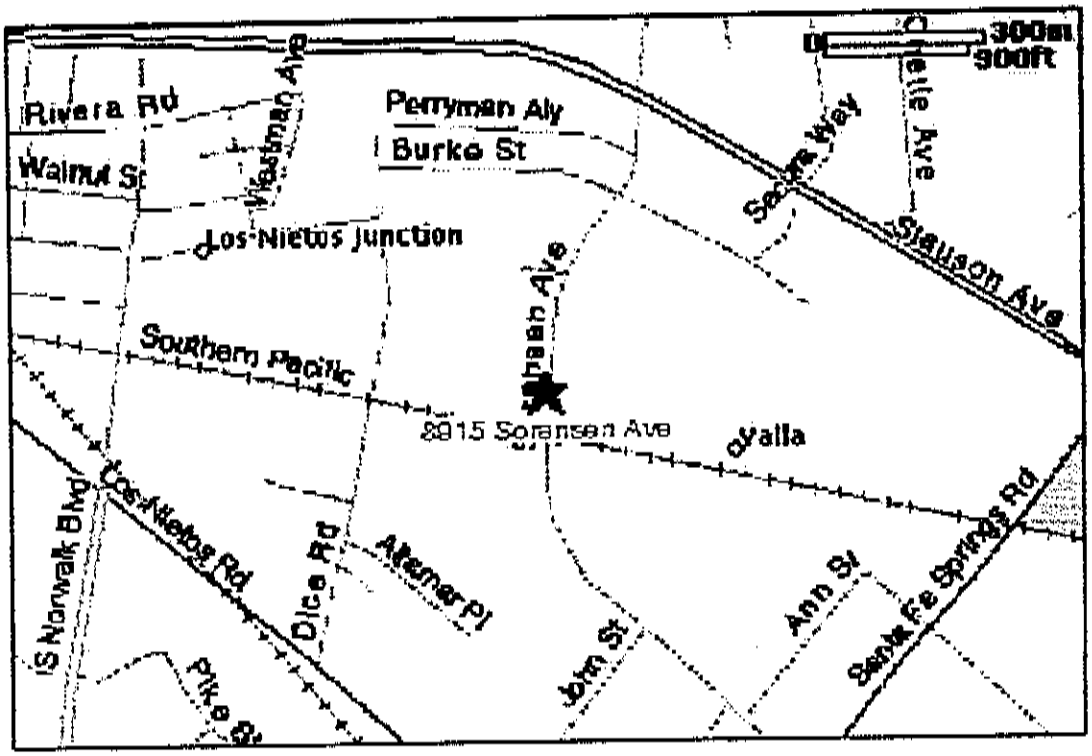
BEII also concludes that the soil is mostly impacted by VOCs within the permeable sand layer. Soil sample results identified only four VOCs in the upper clay layer from 0' to approximately 20' bg. Total VOC soil concentrations averaged 56.66 µg/kg in the upper clay zone. Soil sample results identified elevated VOC concentrations in sand with lower to no detectable concentrations in the underlying clay layer. The average total VOC soil concentrations were 53,125 µg/kg in the permeable sand layer. The underlying clay layer identified an average total VOC soil concentration of 408 µg/kg. Soil sample analysis results identified VOC concentrations at a minimum of two orders of magnitude higher within the permeable sand layer than in the impermeable clays.

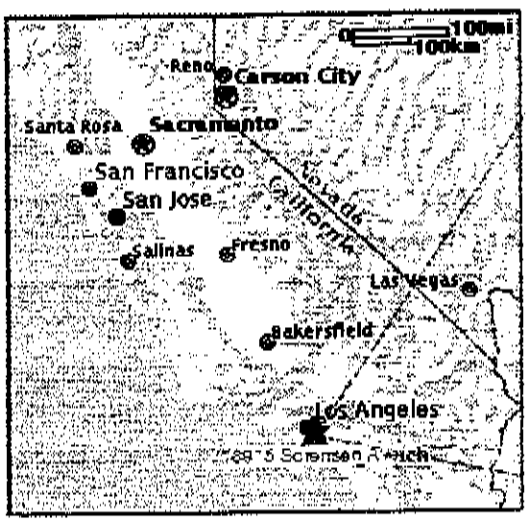
10.0) RECOMMENDATIONS

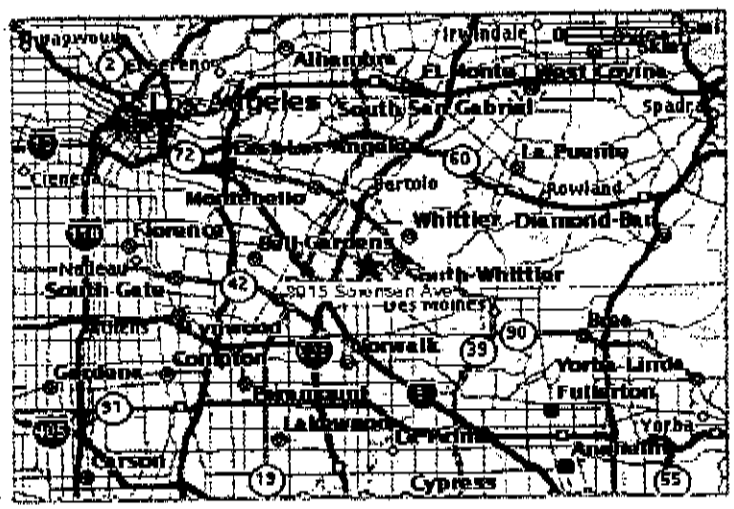
Based on the results of the recent subsurface investigation, BEII recommends the advancement of several cone penetrometer test (CPT) locations and eight additional soil borings

to further define the lithology of the site and aid in the delineation of subsurface contaminants (See Figure 40 for proposed CPT/boring locations). A detailed lithologic cross section will be provided from the results and the site survey to be performed. Soil sampling will be performed according to the Subsurface Investigation Work Plan dated April 25, 2002. Groundwater sampling will be performed according to the Groundwater Monitoring Work Plan dated April 25, 2002.

FIGURES

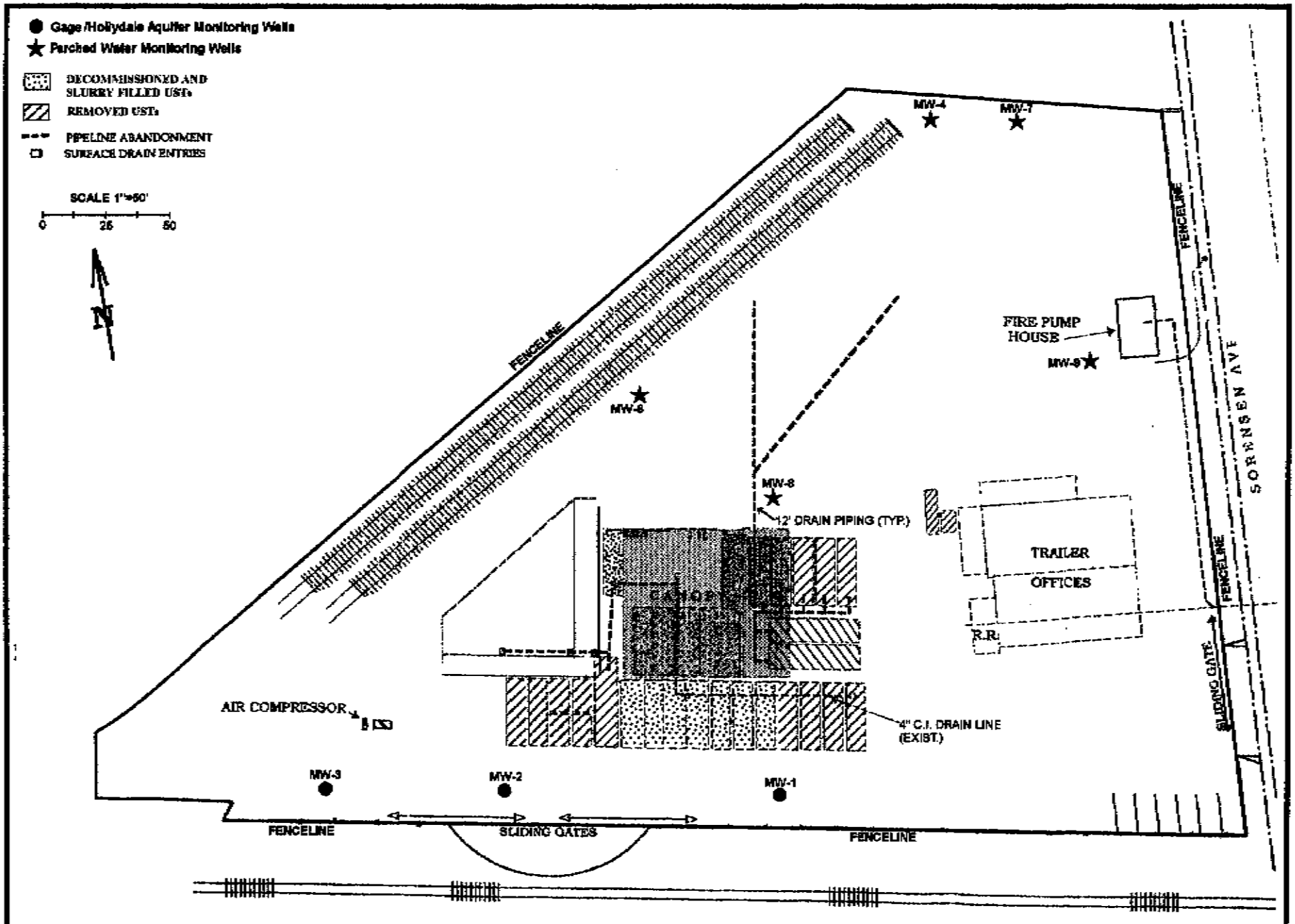






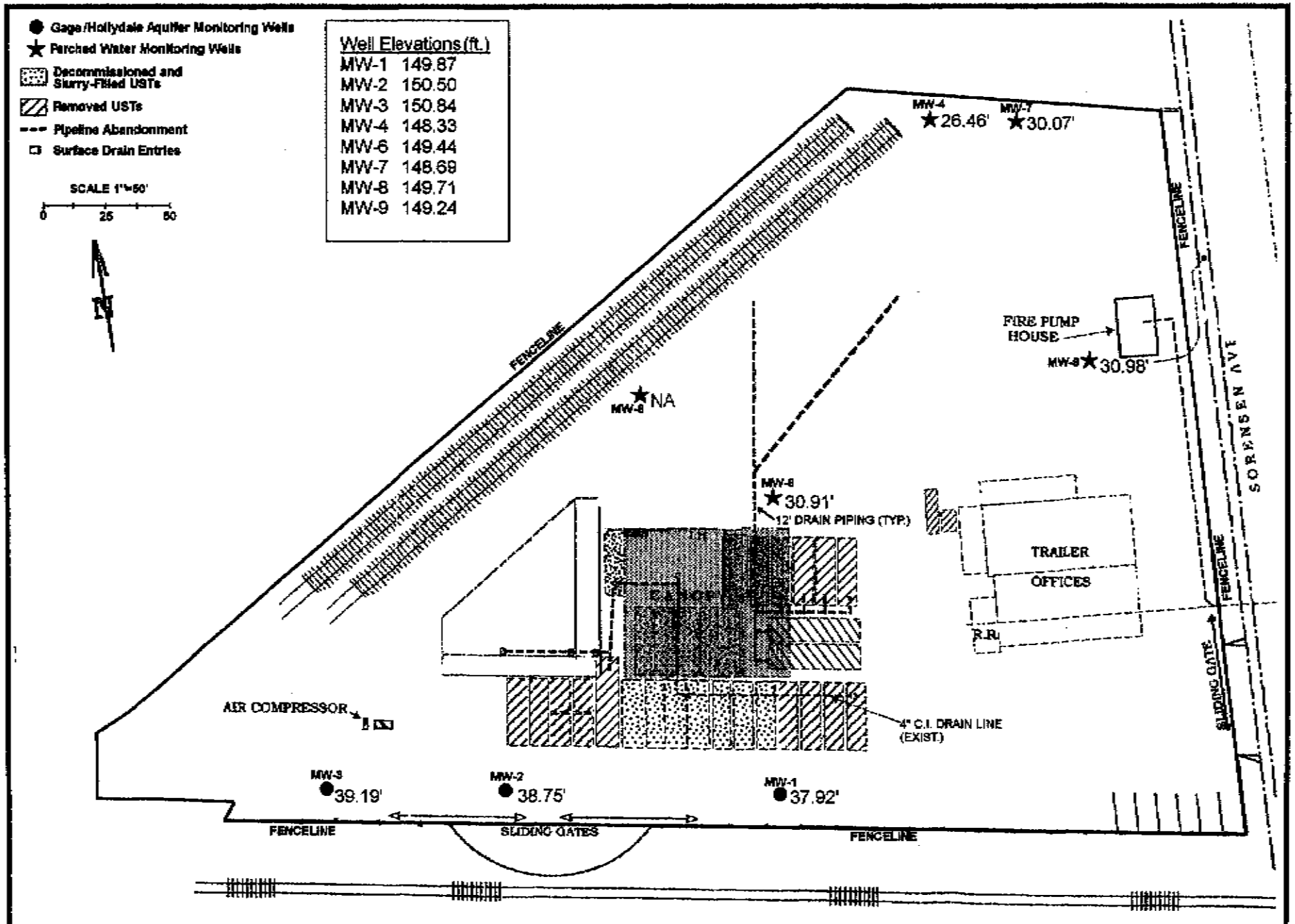
Blakely Environmental Investigations, Inc. 9605 Arrow Route, Suite T Rancho Cucamonga, CA	Site Location Map Former Angeles Chemical Co. 8915 Sorensen Ave. Santa Fe Springs, CA	FIGURE 1

ANCHEM1503



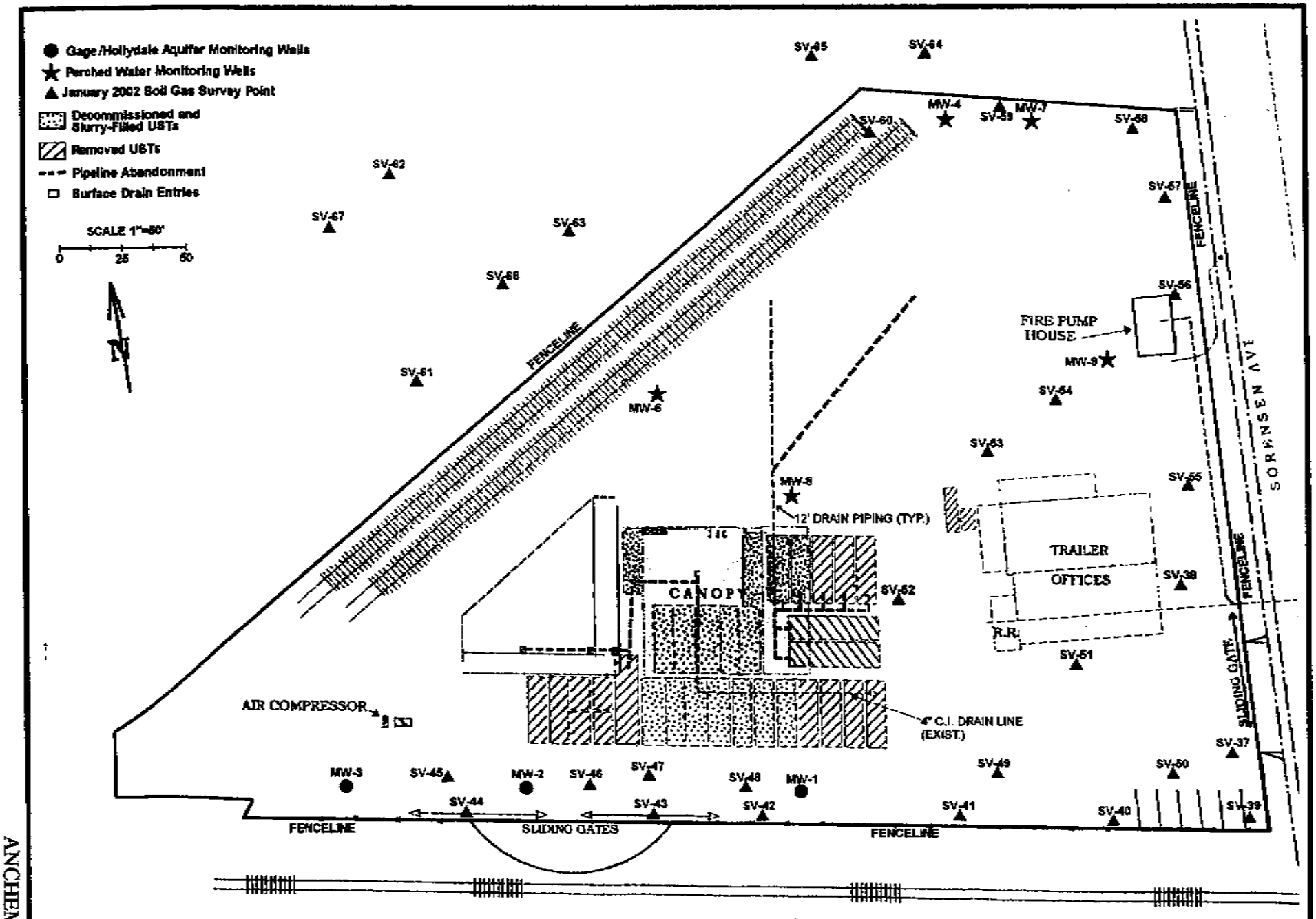
Blakely Environmental Investigations, Inc. **9605 Arrow Route, Suite "T"** **Rancho Cucamonga, CA 91730**	Well Location Map **Former Angeles Chemical Company** **8915 Sorensen Avenue, Santa Fe Springs, CA**	FIGURE 2

ANCHEM1504



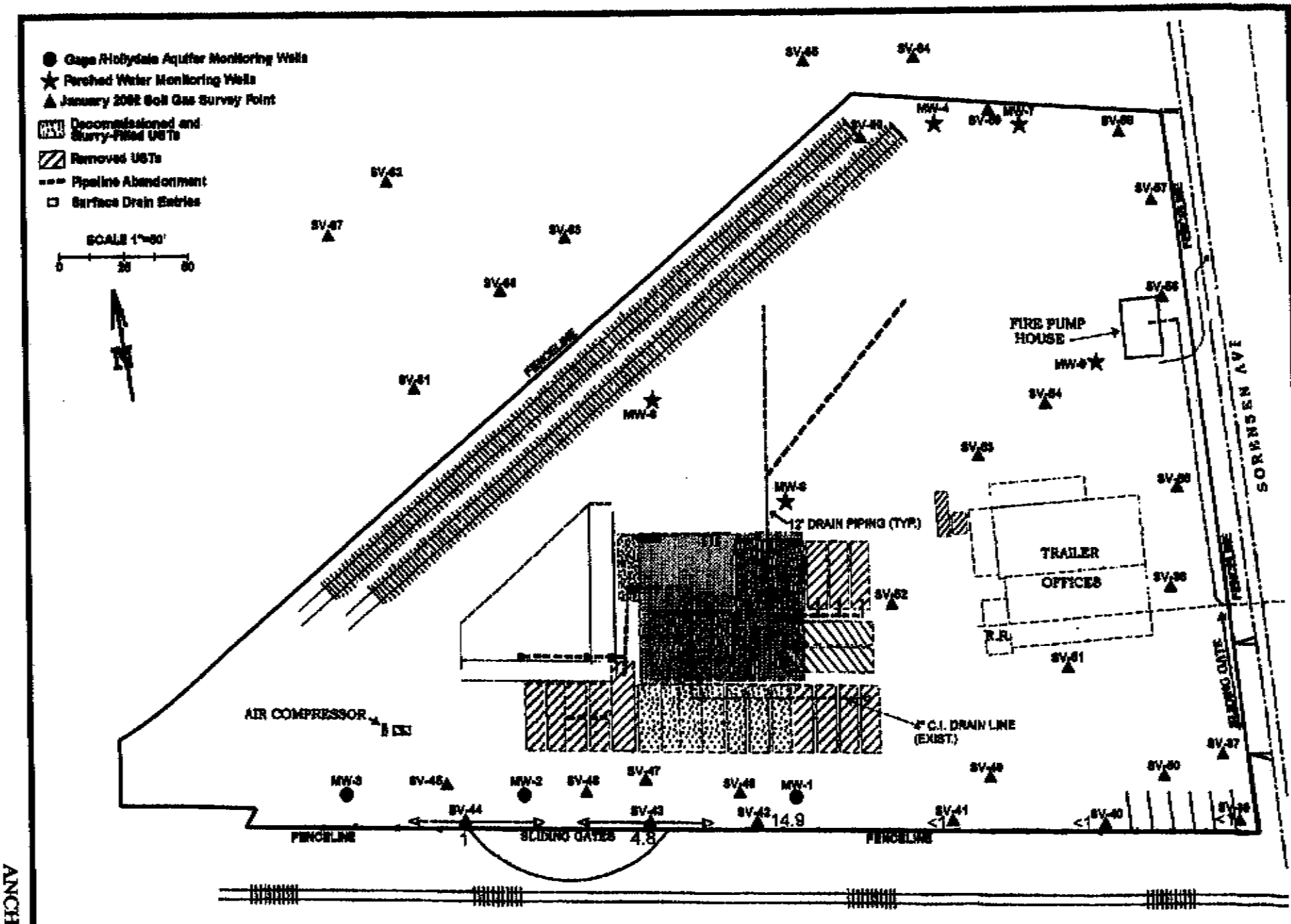
Blakely Environmental Investigations, Inc. **9605 Arrow Route, Suite "T"** **Rancho Cucamonga, CA 91730**	Depth to Groundwater **Former Angeles Chemical Company** **8915 Sorensen Avenue, Santa Fe Springs, CA**	FIGURE 3

ANCHEM1505



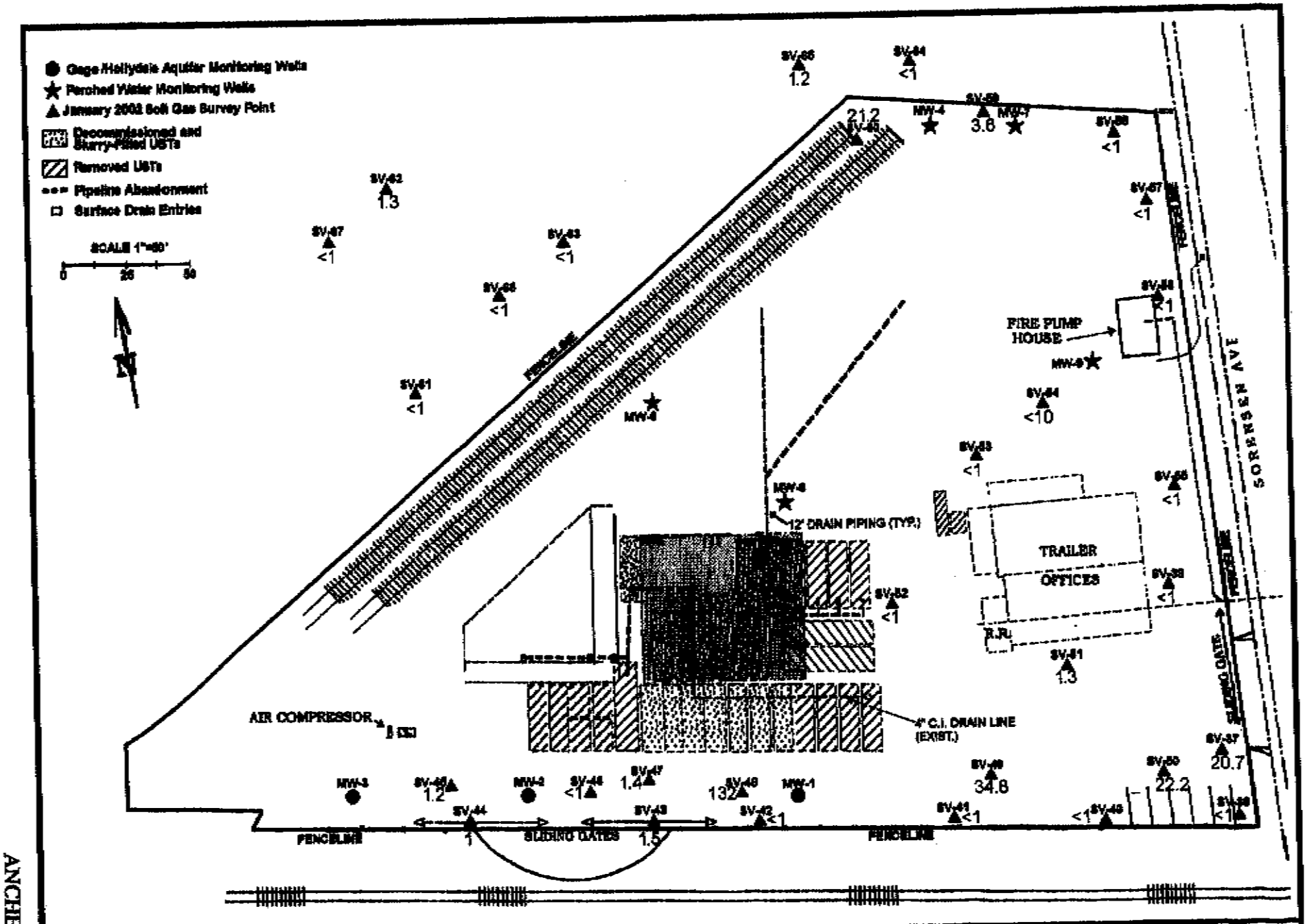
Blakely Environmental Investigations, Inc. 9605 Arrow Route, Suite "T" Rancho Cucamonga, CA 91730	BEII Soil Gas Sample Locations Former Angeles Chemical Company 8915 Sorensen Avenue, Santa Fe Springs, CA	FIGURE 4

ANCHEM1506



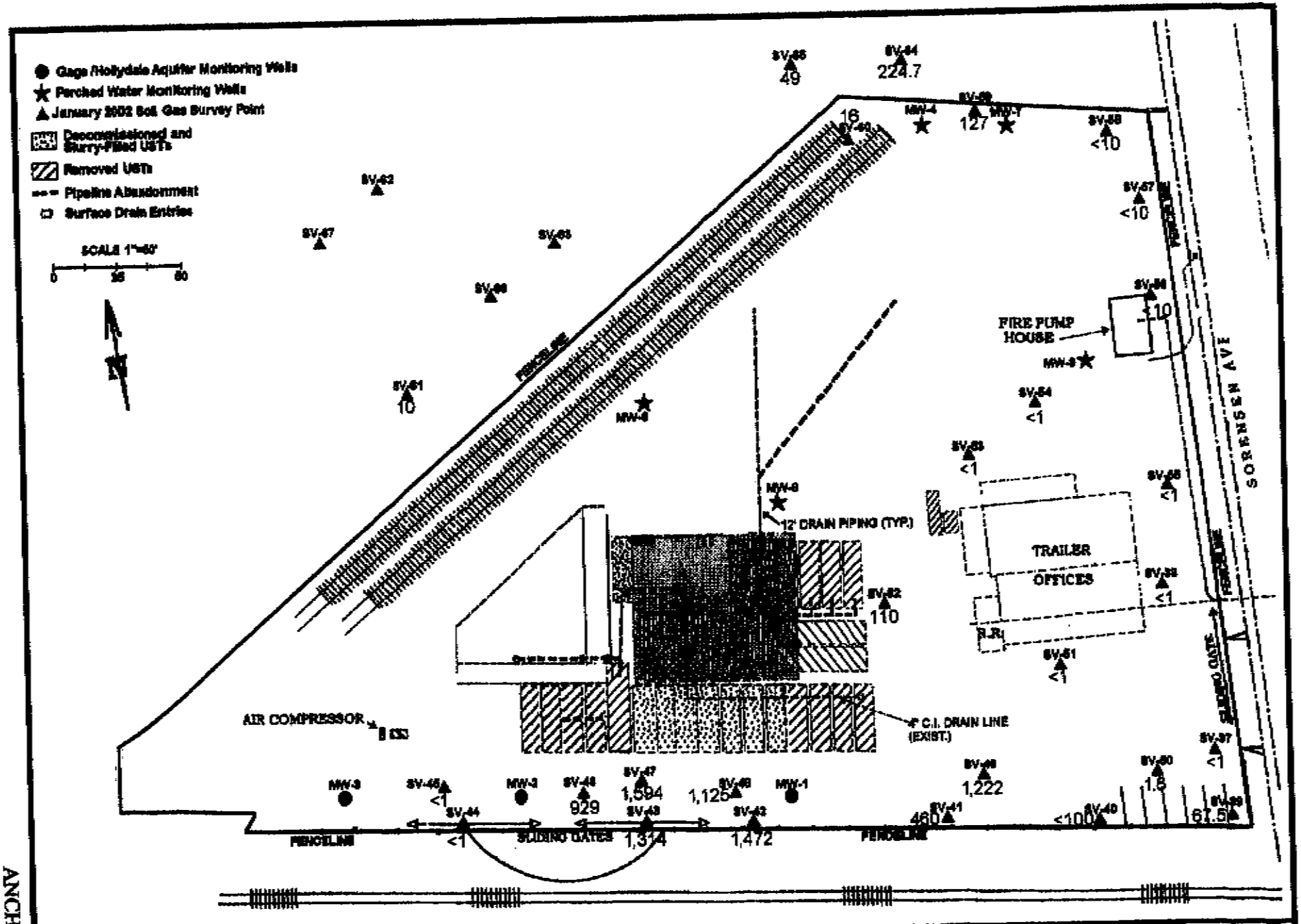
Blakely Environmental Investigations, Inc. 9605 Arrow Route, Suite "I" Rancho Cucamonga, CA 91730	Concentrations of BTEX(µg/L) in Soil Gas at 5' bg Former Angeles Chemical Company 8915 Sorensen Avenue, Santa Fe Springs, CA	FIGURE 5

ANCHEM1507



Blakely Environmental Investigations, Inc. 9605 Arrow Route, Suite "T" Rancho Cucamonga, CA 91730	Concentrations of BTEX (µg/L) in Soil Gas at 7'-12' bg Former Angeles Chemical Company 8915 Sorensen Avenue, Santa Fe Springs, CA	FIGURE 6

ANCHEM1508



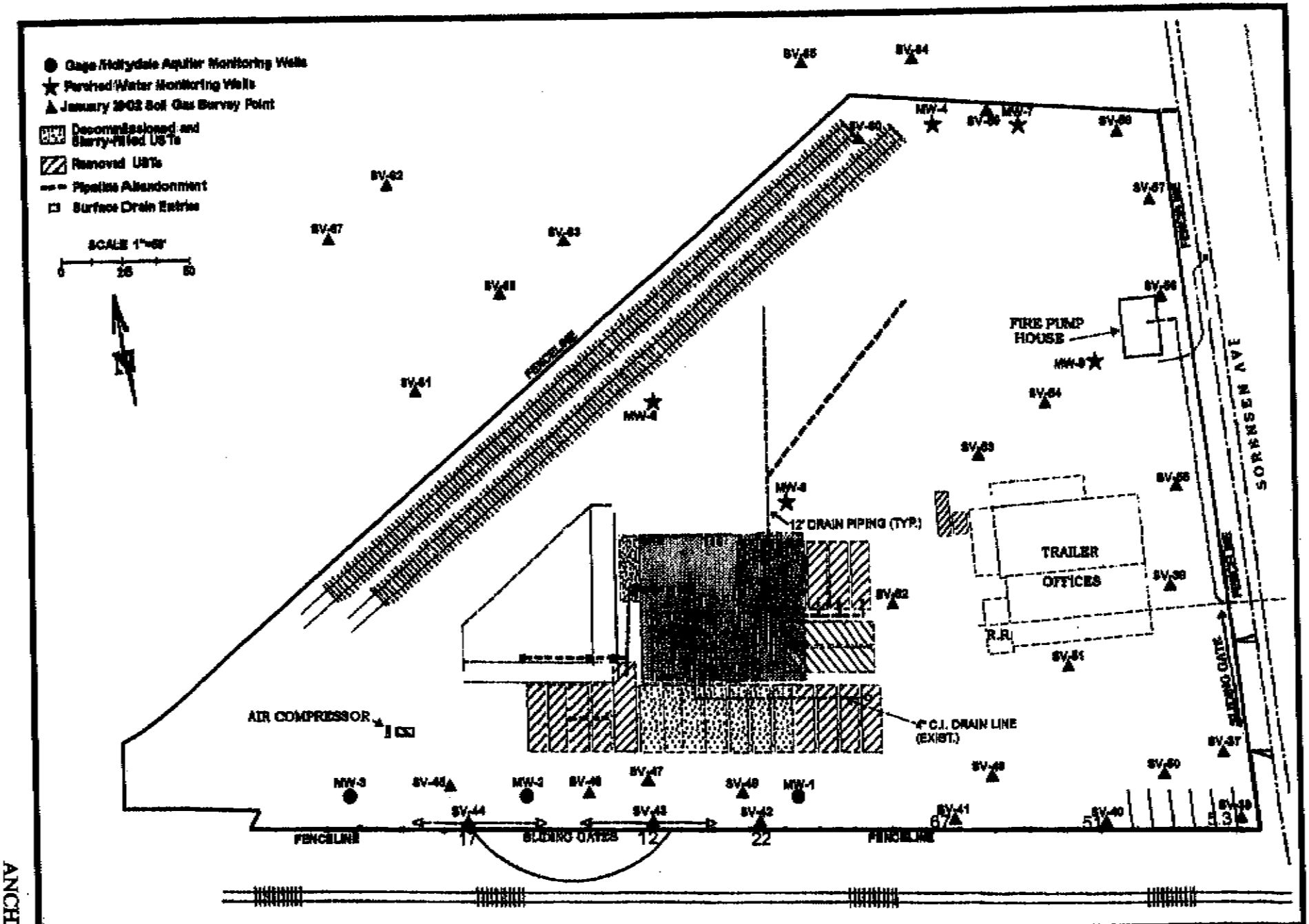
Blakely Environmental Investigations, Inc.
9605 Arrow Route, Suite "T"
Rancho Cucamonga, CA 91730

Concentrations of BTEX (µg/L) in Soil Gas at 20' bg

Former Angeles Chemical Company
8915 Sorensen Avenue, Santa Fe Springs, CA

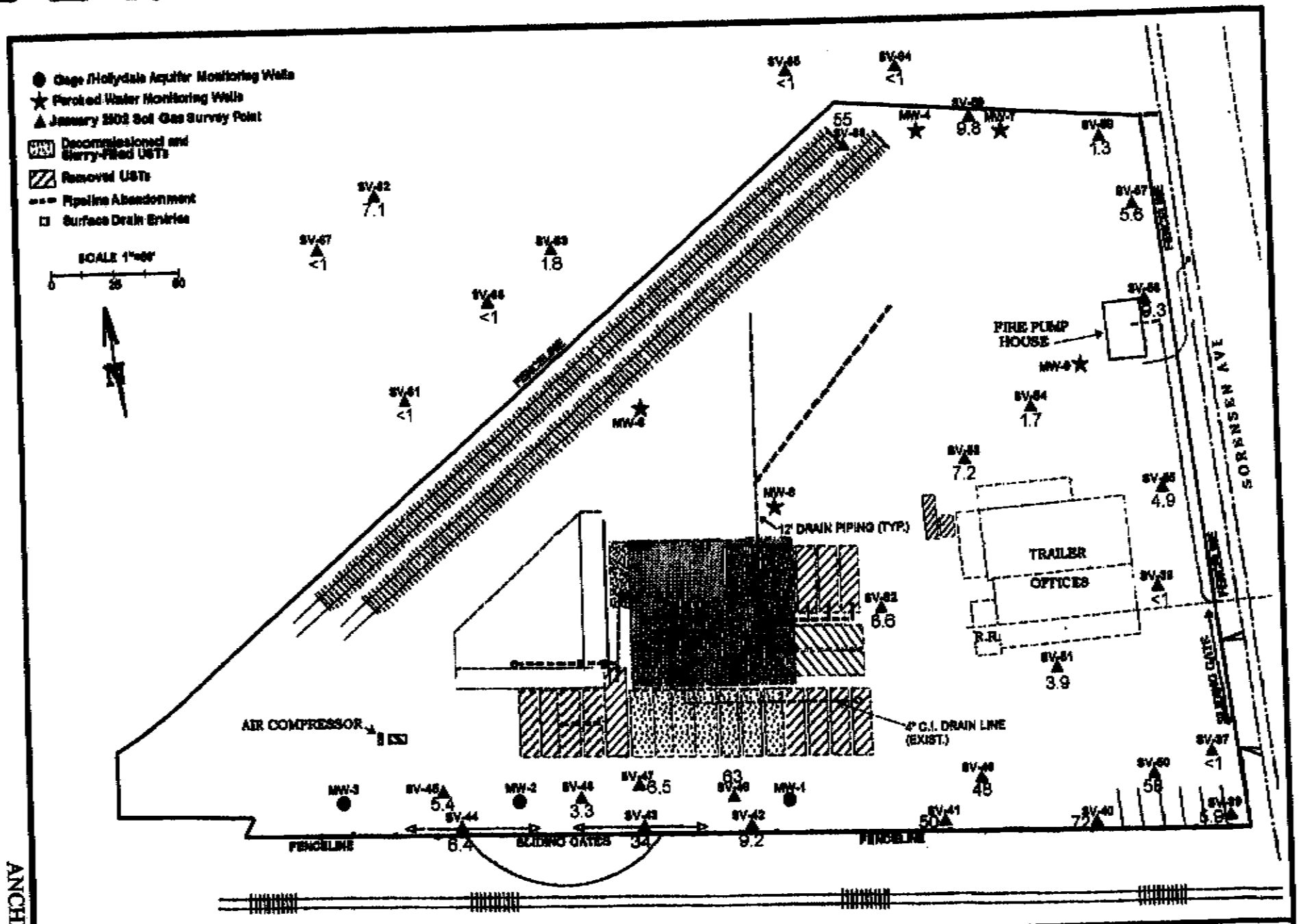
FIGURE 7

ANCHEM1509



Blakely Environmental Investigations, Inc. **9605 Arrow Route, Suite "I"** **Rancho Cucamonga, CA 91730**	Concentrations of 1,1 DCA (µg/L) in Soil Gas at 5' bg **Former Angeles Chemical Company** **8915 Sorensen Avenue, Santa Fe Springs, CA**	FIGURE 8

ANCHEM1510



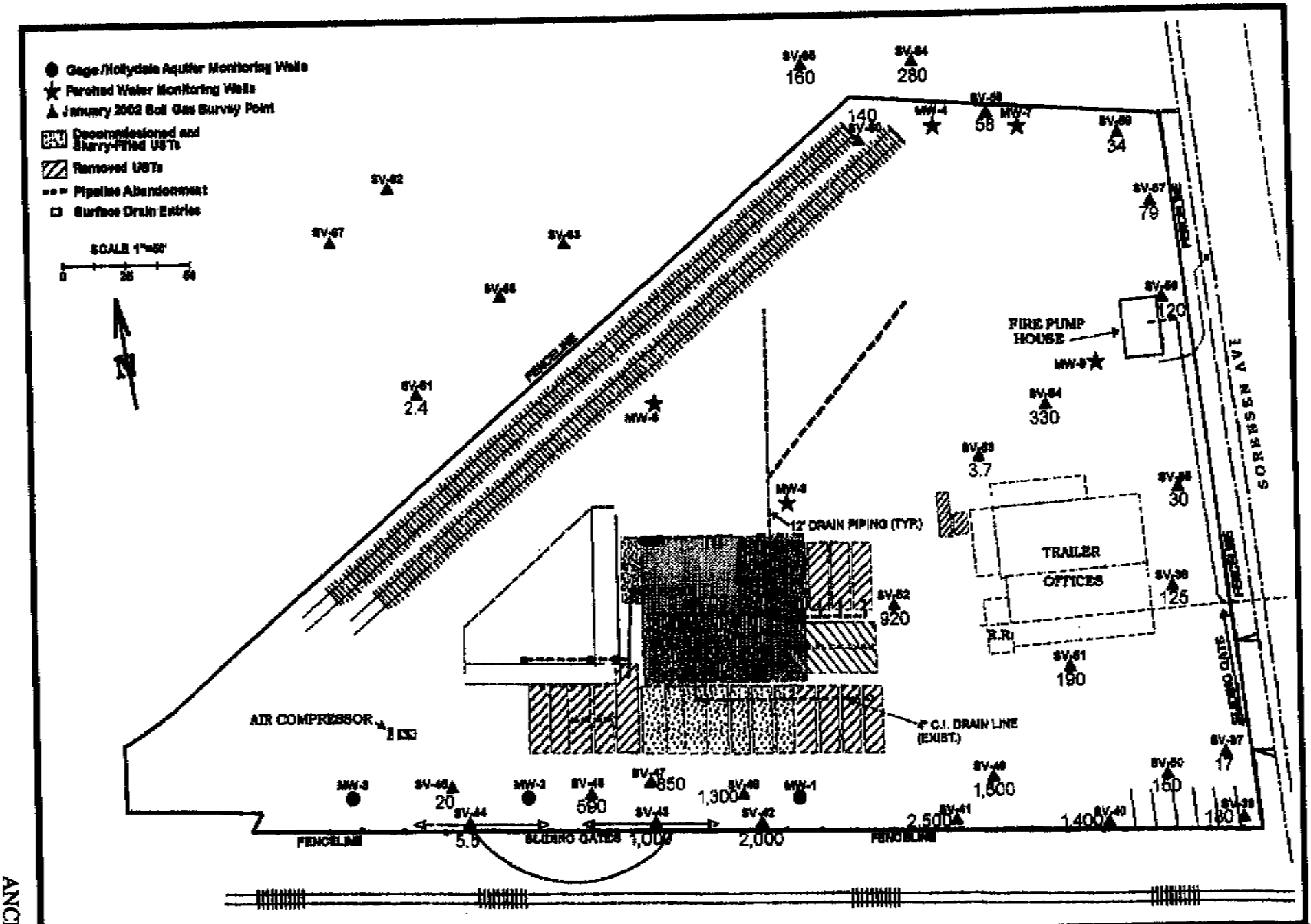
Blakely Environmental Investigations, Inc.
9605 Arrow Route, Suite "I"
Rancho Cucamonga, CA 91730

Concentrations of 1,1 DCA (µg/L) in Soil Gas at 7'-12' bg

Former Angeles Chemical Company
8915 Sorensen Avenue, Santa Fe Springs, CA

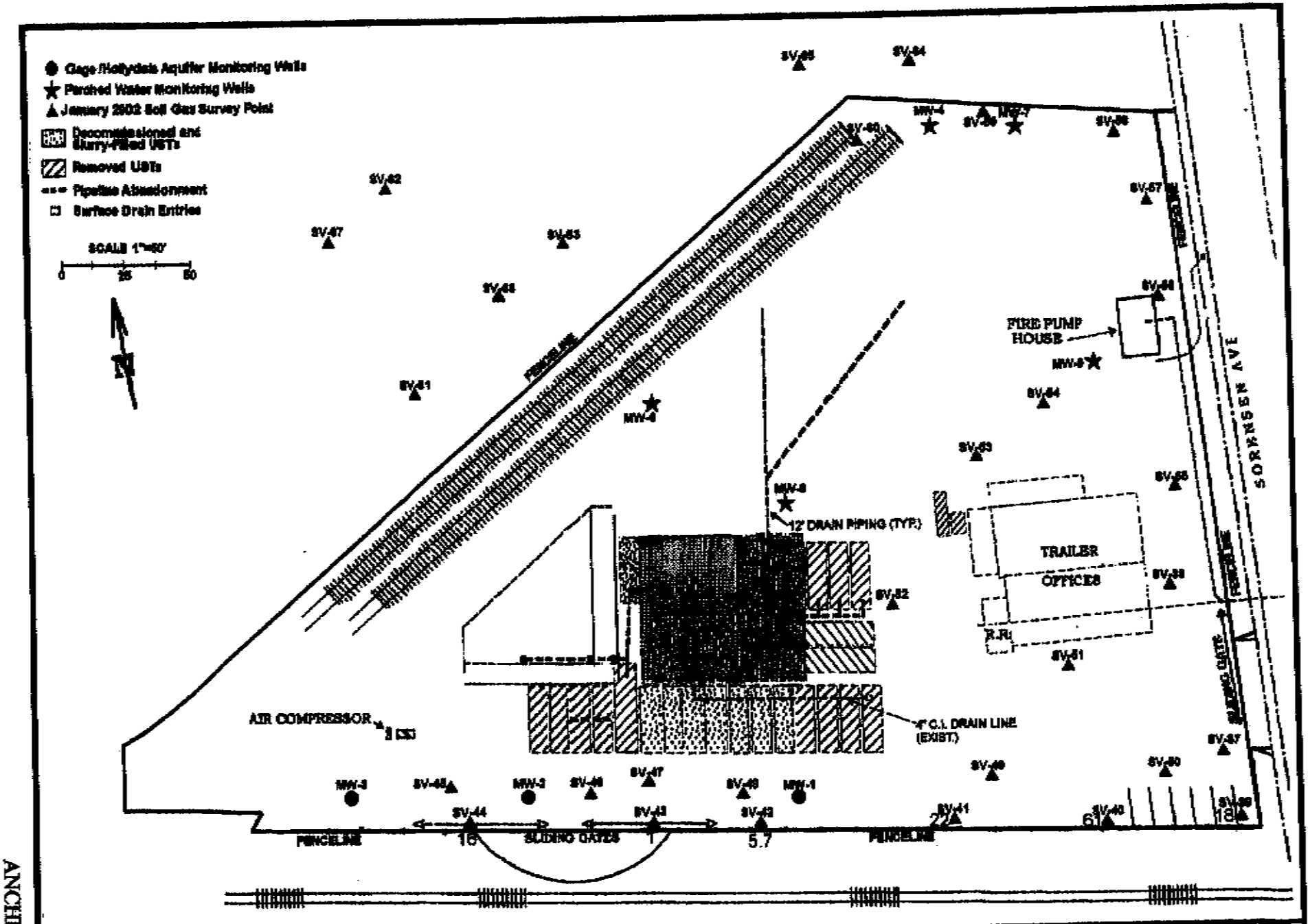
FIGURE 9

ANCHEM1511



Blakely Environmental Investigations, Inc. **9605 Arrow Route, Suite "T"** **Rancho Cucamonga, CA 91730**	Concentrations of 1,1 DCA (µg/L) in Soil Gas at 20' bg **Former Angeles Chemical Company** **8915 Sorensen Avenue, Santa Fe Springs, CA**	FIGURE 10

ANCHEM1512



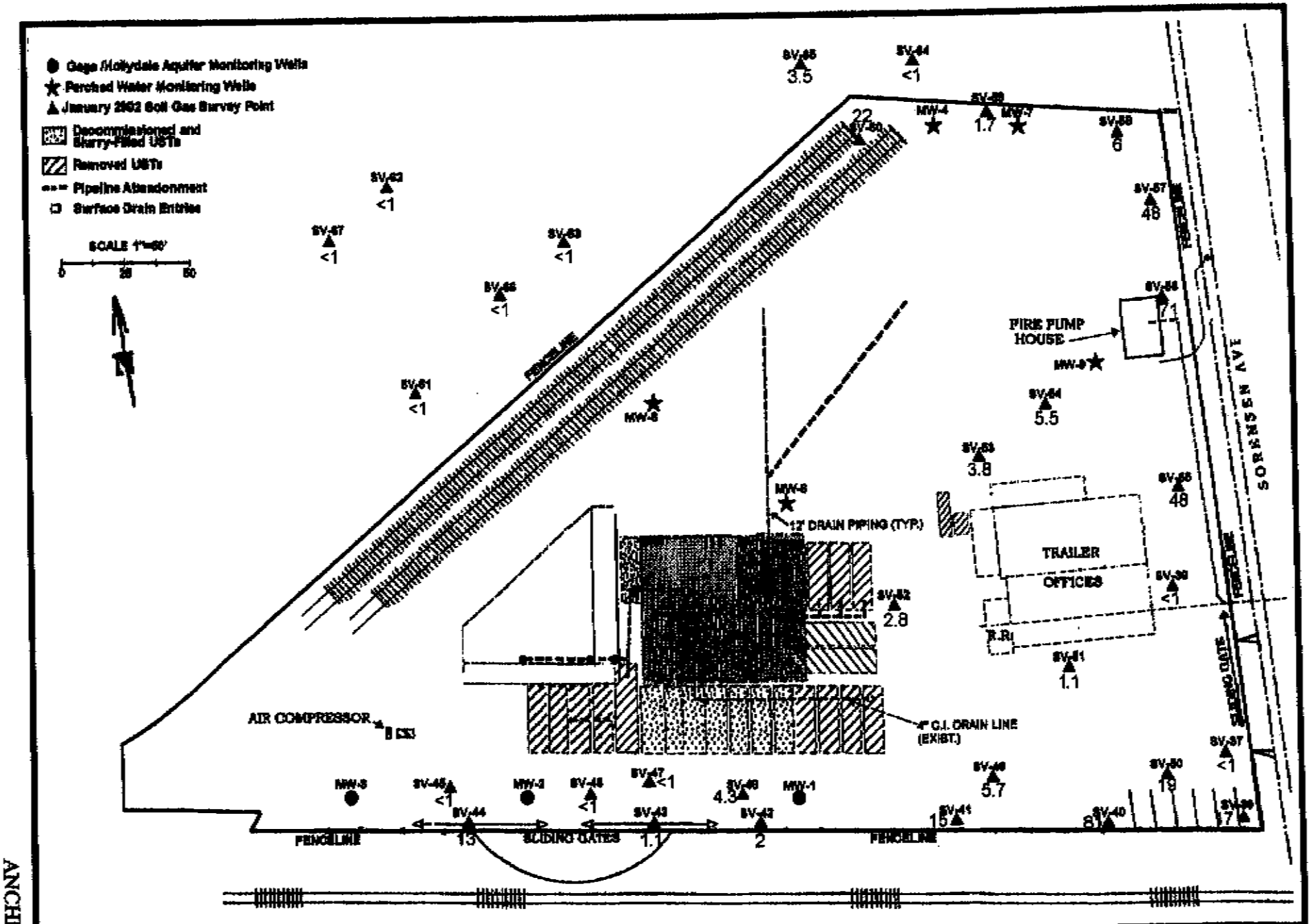
Blakely Environmental Investigations, Inc.
9605 Arrow Route, Suite "T"
Rancho Cucamonga, CA 91730

Concentrations of 1,1 DCE (µg/L) In Soil Gas at 5' bg

Former Angeles Chemical Company
8915 Sorensen Avenue, Santa Fe Springs, CA

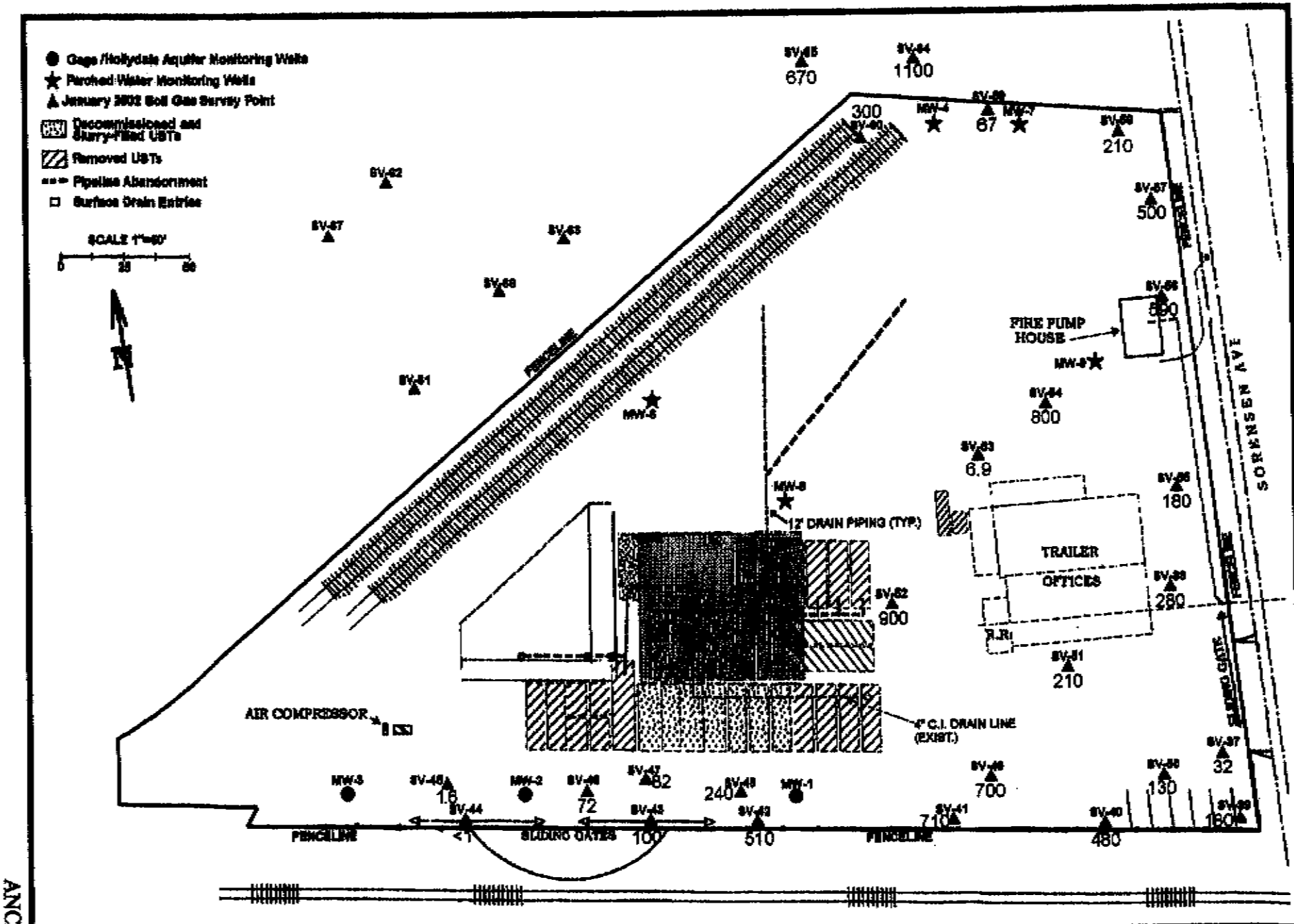
FIGURE 11

ANCHEM1513



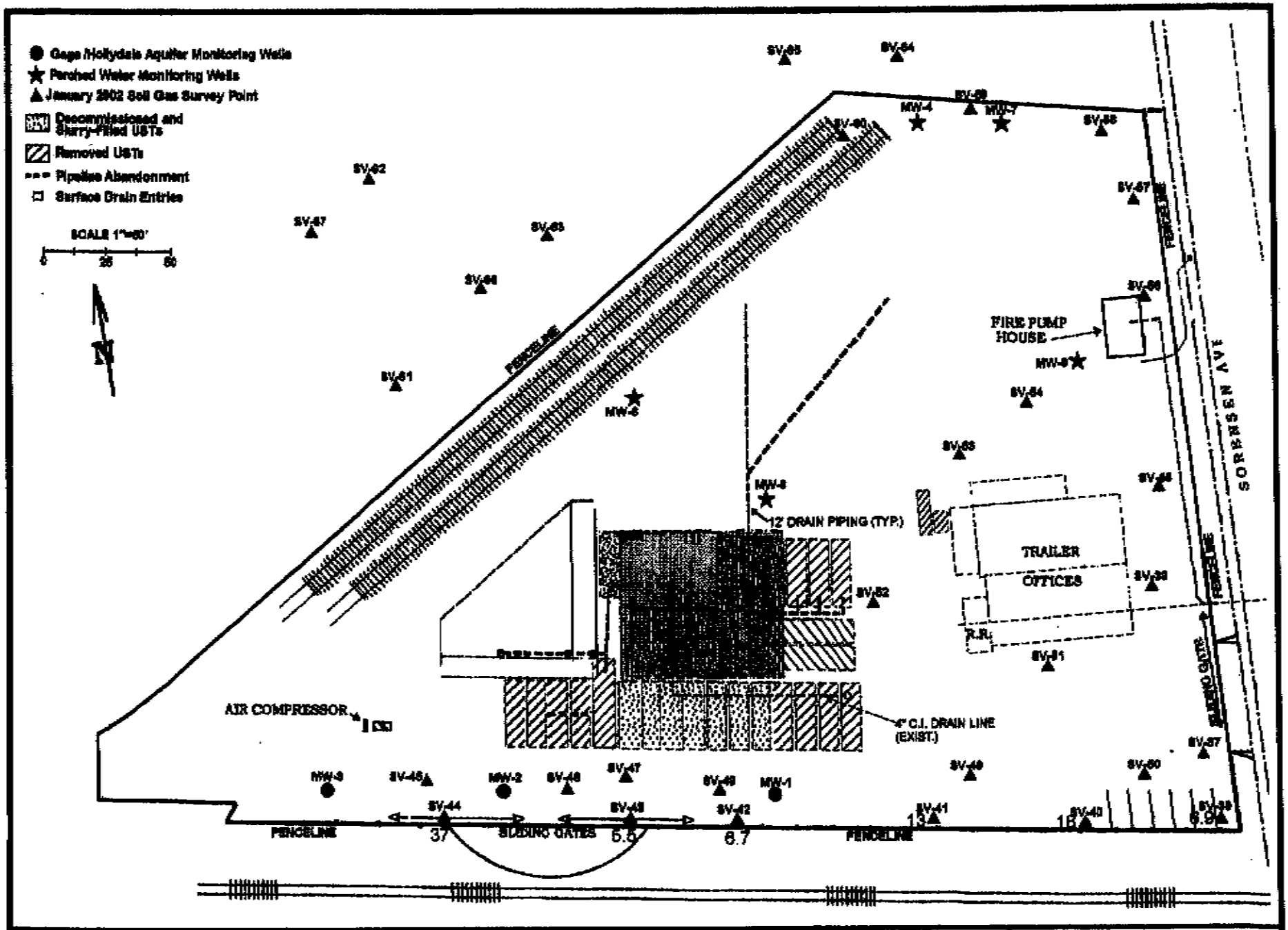
Blakely Environmental Investigations, Inc. **9605 Arrow Route, Suite "T"** **Rancho Cucamonga, CA 91730**	Concentrations of 1,1 DCE (µg/L) in Soil Gas at 7'-12' bg **Former Angeles Chemical Company** **8915 Sorensen Avenue, Santa Fe Springs, CA**	FIGURE 12

ANCHEM1514



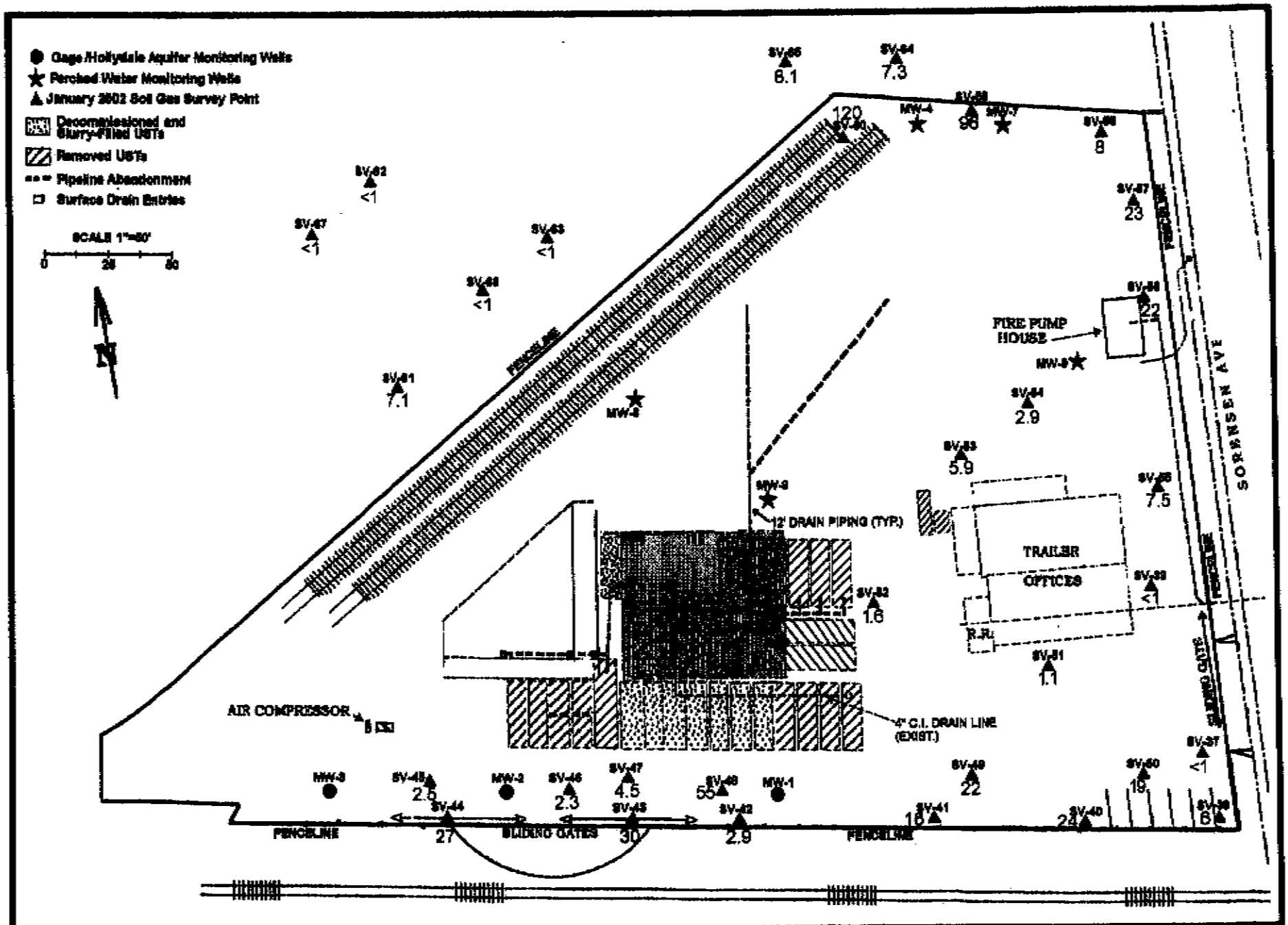
Blakely Environmental Investigations, Inc. 9605 Arrow Route, Suite "I" Rancho Cucamonga, CA 91730	Concentrations of 1,1 DCE (µg/L) in Soil Gas at 20' bg Former Angeles Chemical Company 8915 Sorensen Avenue, Santa Fe Springs, CA	FIGURE 13

ANCHEM1515



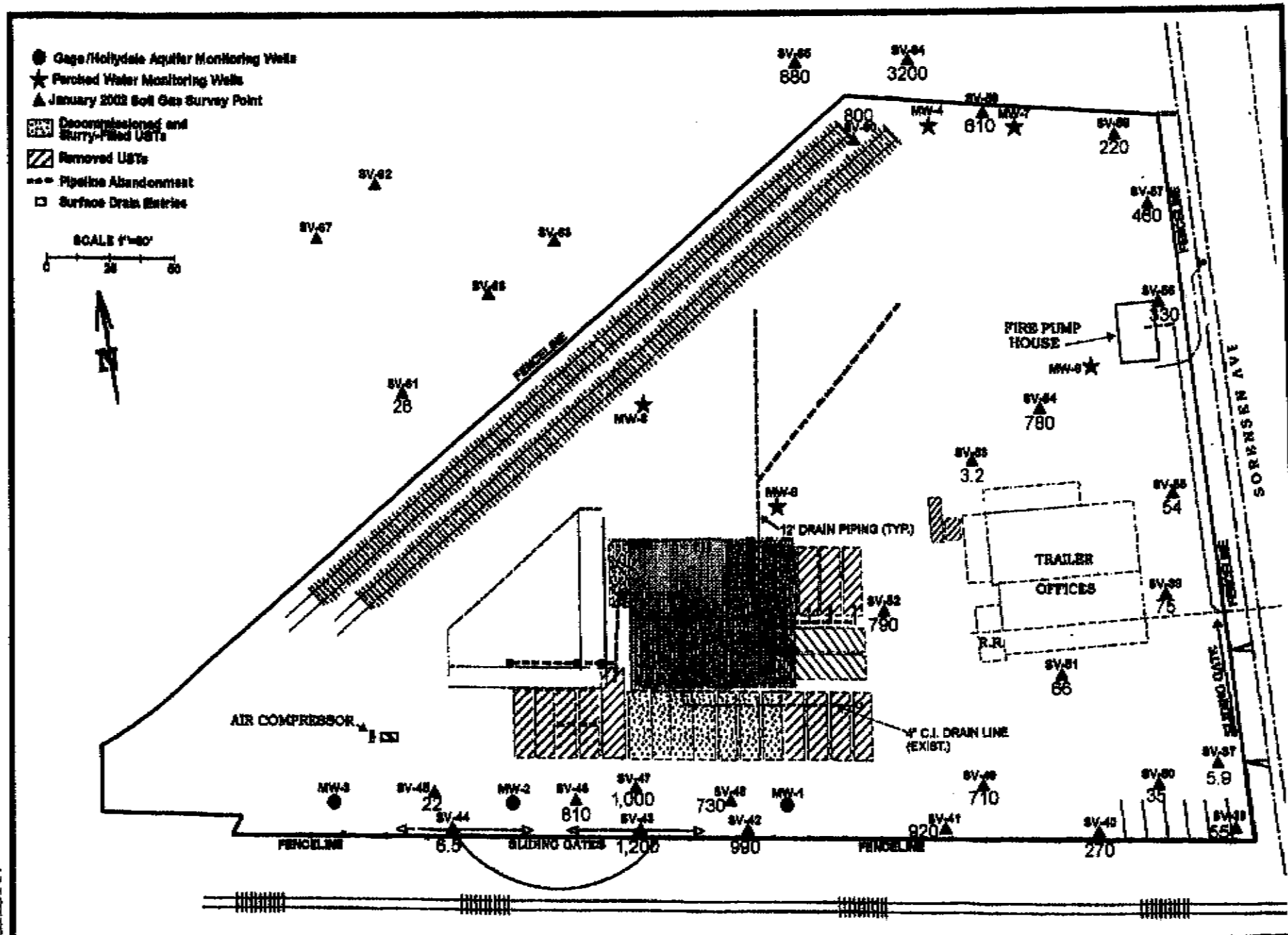
Blakely Environmental Investigations, Inc. 9505 Arrow Route, Suite "I" Rancho Cucamonga, CA 91730	Concentrations of cis-1,2 DCE (µg/L) in Soil Gas at 5' bg Former Angeles Chemical Company 8915 Sorensen Avenue, Santa Fe Springs, CA	FIGURE 14

ANCHEM1516



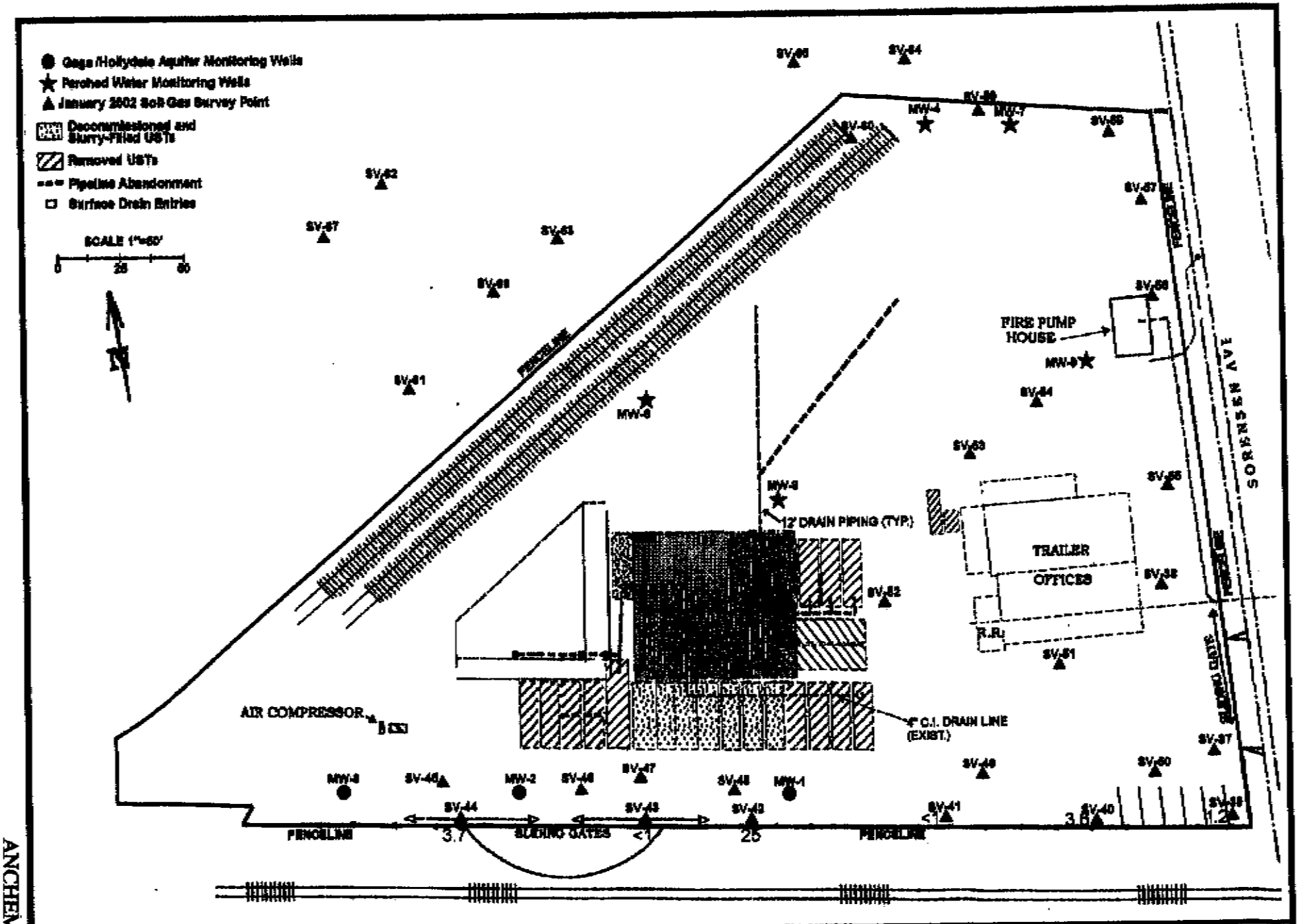
Blakely Environmental Investigations, Inc. 9605 Arrow Route, Suite "T" Rancho Cucamonga, CA 91730	Concentrations of cis-1,2 DCE (µg/L) in Soil Gas at 7'-12' bg Former Angeles Chemical Company 8915 Sorensen Avenue, Santa Fe Springs, CA	FIGURE 15

ANCHEM1517



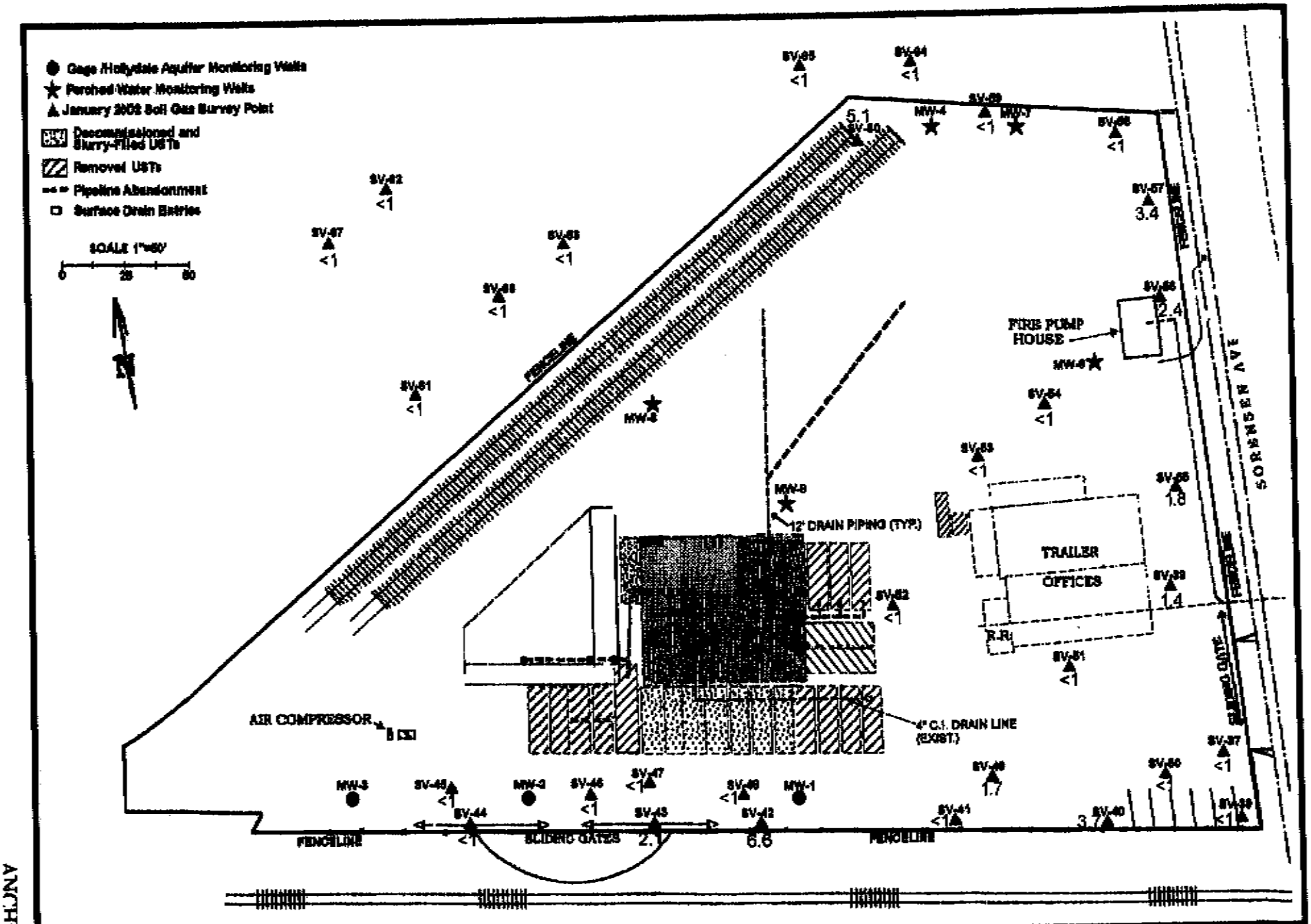
Blakely Environmental Investigations, Inc. 9605 Arrow Route, Suite "I" Rancho Cucamonga, CA 91730	Concentrations of cis-1,2 DCE (µg/L) in Soil Gas at 20' bg Former Angeles Chemical Company 8915 Sorensen Avenue, Santa Fe Springs, CA	FIGURE 16

ANCHEM1518



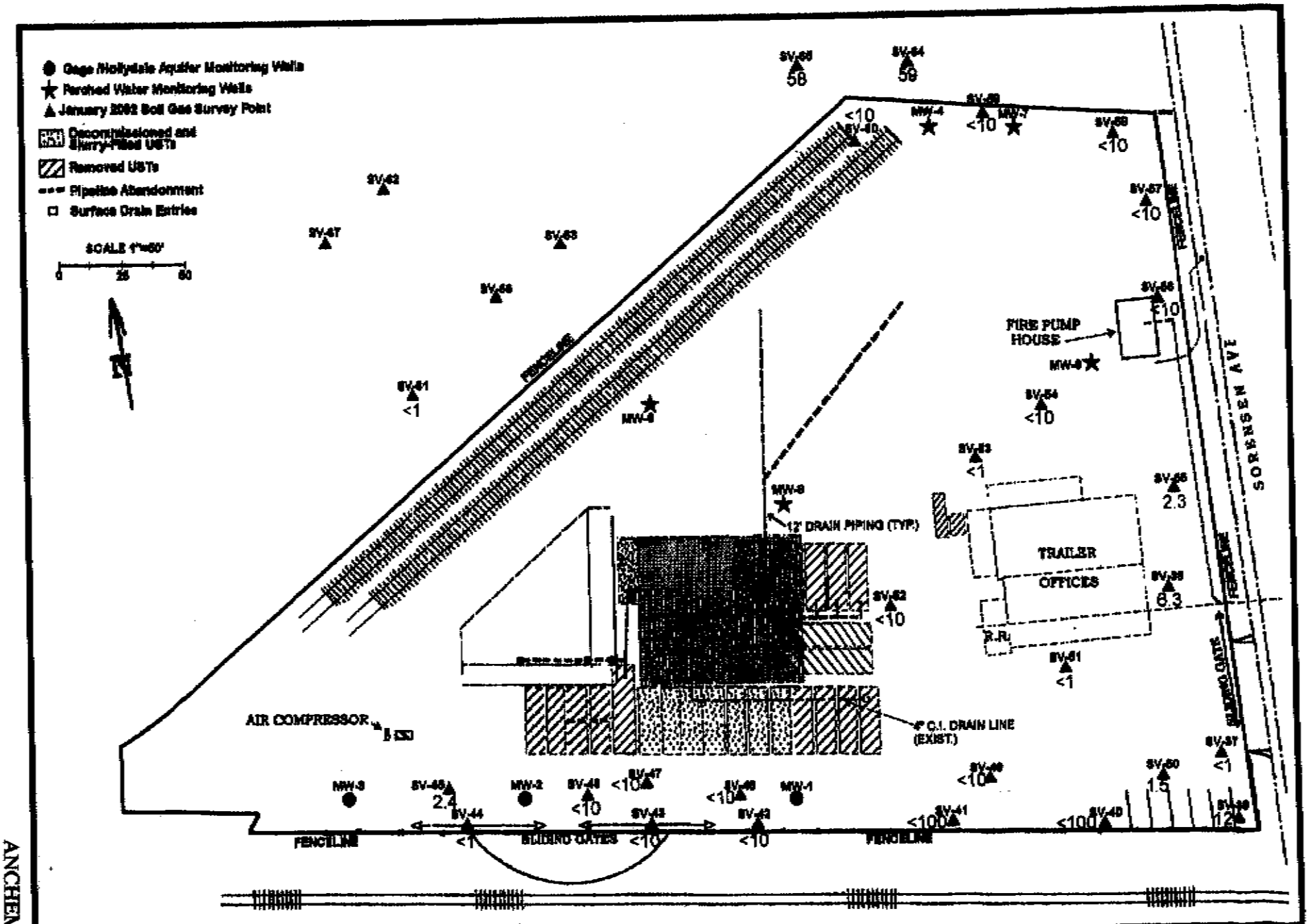
Blakely Environmental Investigations, Inc. 9605 Arrow Route, Suite "T" Rancho Cucamonga, CA 91730	Concentrations of PCE (µg/L) in Soil Gas at 5' bg Former Angeles Chemical Company 8915 Sorensen Avenue, Santa Fe Springs, CA	FIGURE 17

ANCHEM1519



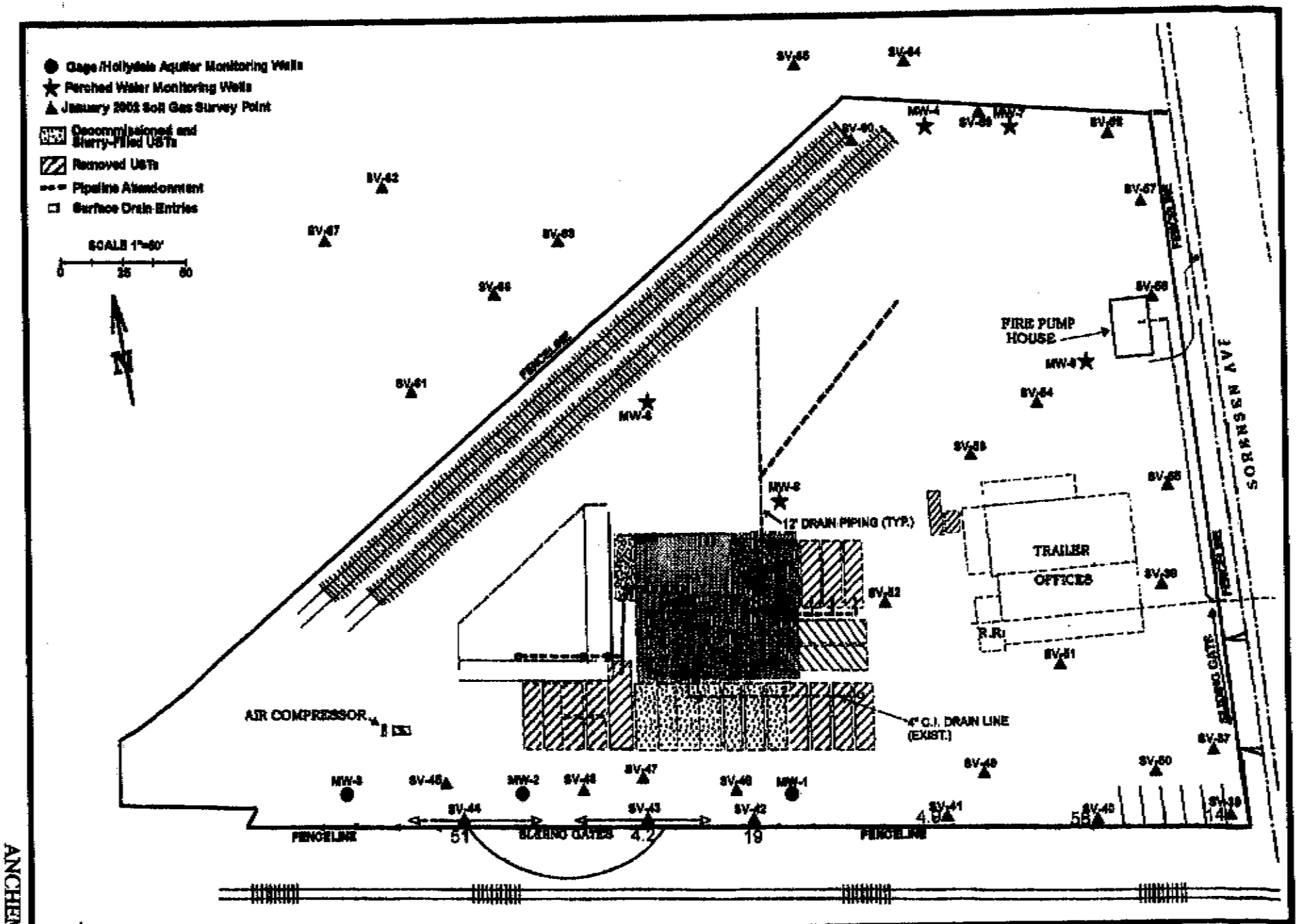
Blakely Environmental Investigations, Inc. 9605 Arrow Route, Suite "I" Rancho Cucamonga, CA 91730	Concentrations of PCE (µg/L) in Soil Gas at 7'-12' bg Former Angeles Chemical Company 8915 Sorensen Avenue, Santa Fe Springs, CA	FIGURE 18

ANCTHEM1520



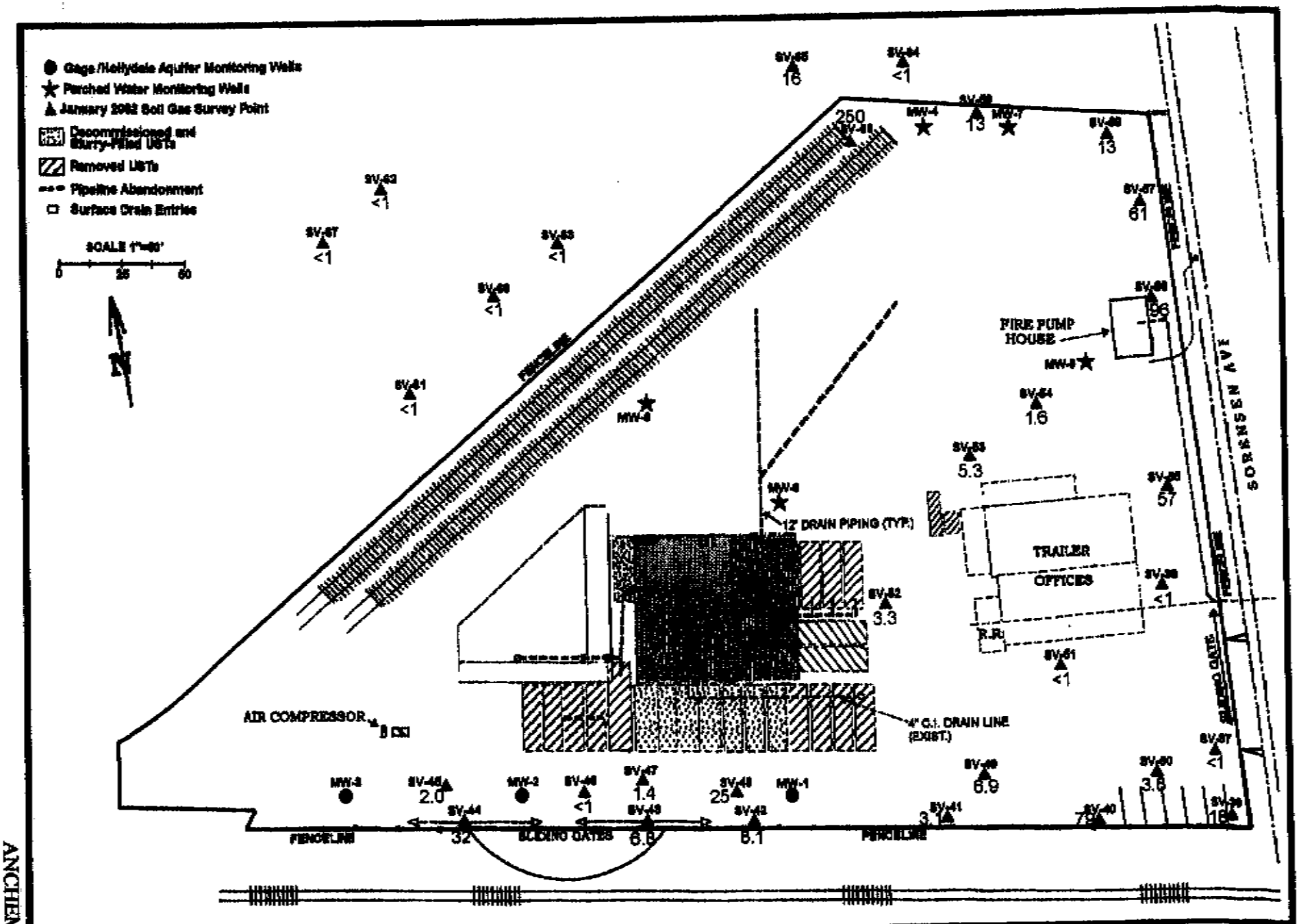
Blakely Environmental Investigations, Inc. 9605 Arrow Route, Suite "T" Rancho Cucamonga, CA 91730	Concentrations of PCE (µg/L) in Soil Gas at 20' bg Former Angeles Chemical Company 8915 Sorensen Avenue, Santa Fe Springs, CA	FIGURE 19

ANCHEM1521



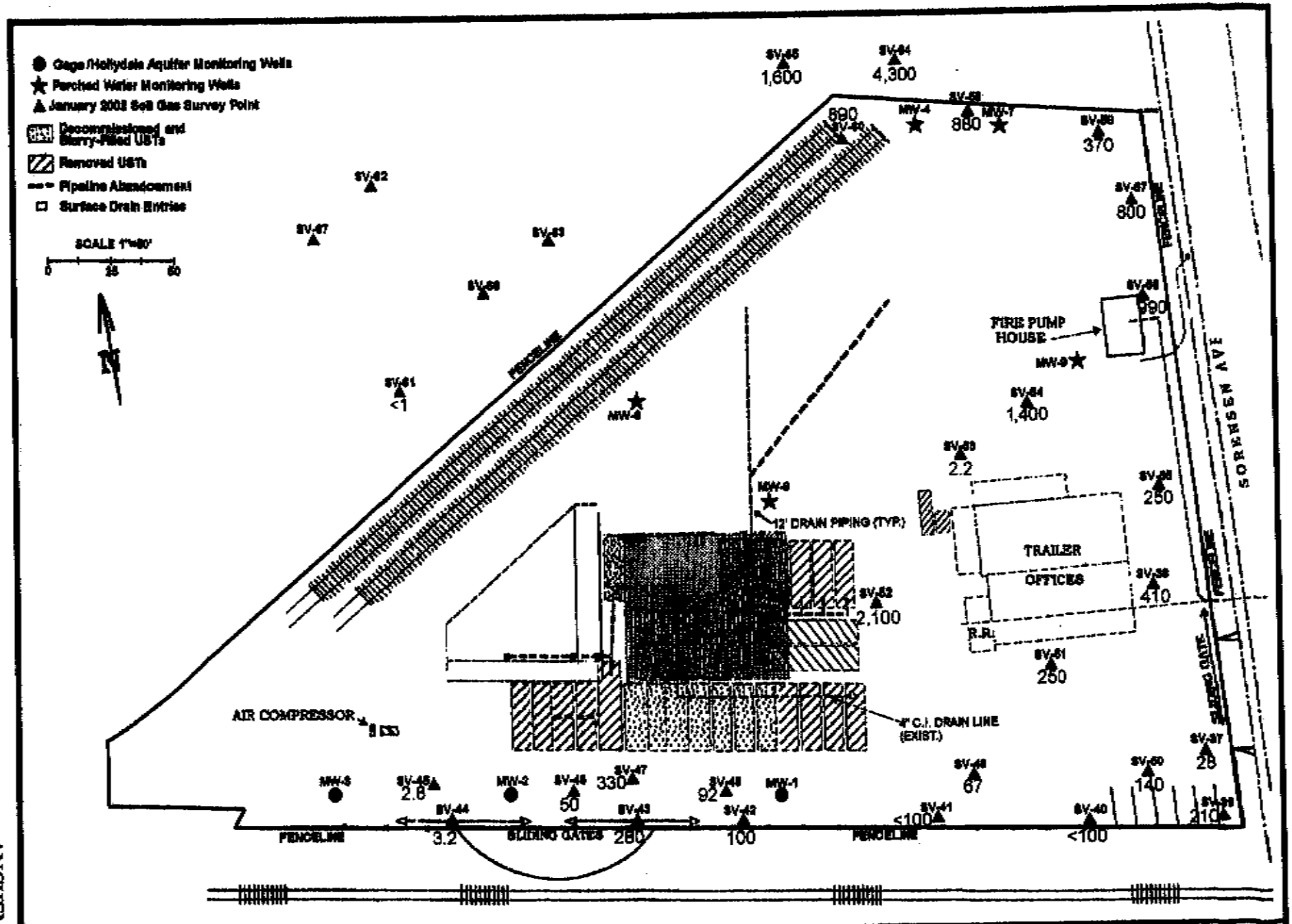
Blakely Environmental Investigations, Inc. 9605 Arrow Route, Suite "T" Rancho Cucamonga, CA 91730	Concentrations of 1,1,1, TCA (µg/L) in Soil Gas at 5' bg Former Angeles Chemical Company 8915 Sorensen Avenue, Santa Fe Springs, CA	FIGURE 20

ANCHEM1522



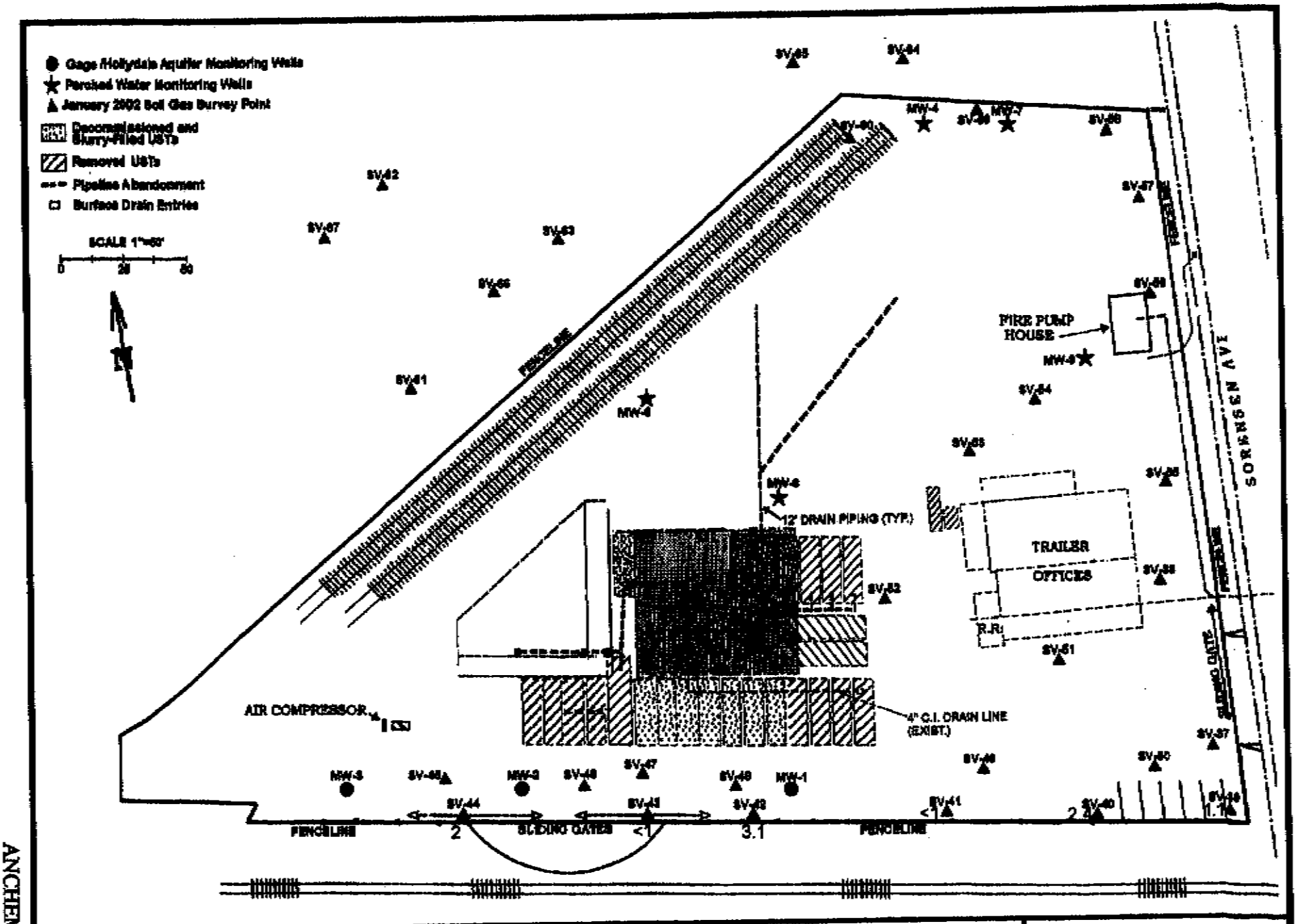
Blakely Environmental Investigations, Inc. 9605 Arrow Route, Suite "T" Rancho Cucamonga, CA 91730	Concentrations of 1,1,1, TCA (µg/L) in Soil Gas at 7'-12' bg Former Angeles Chemical Company 8915 Sorensen Avenue, Santa Fe Springs, CA	FIGURE 21

ANCHEM1523



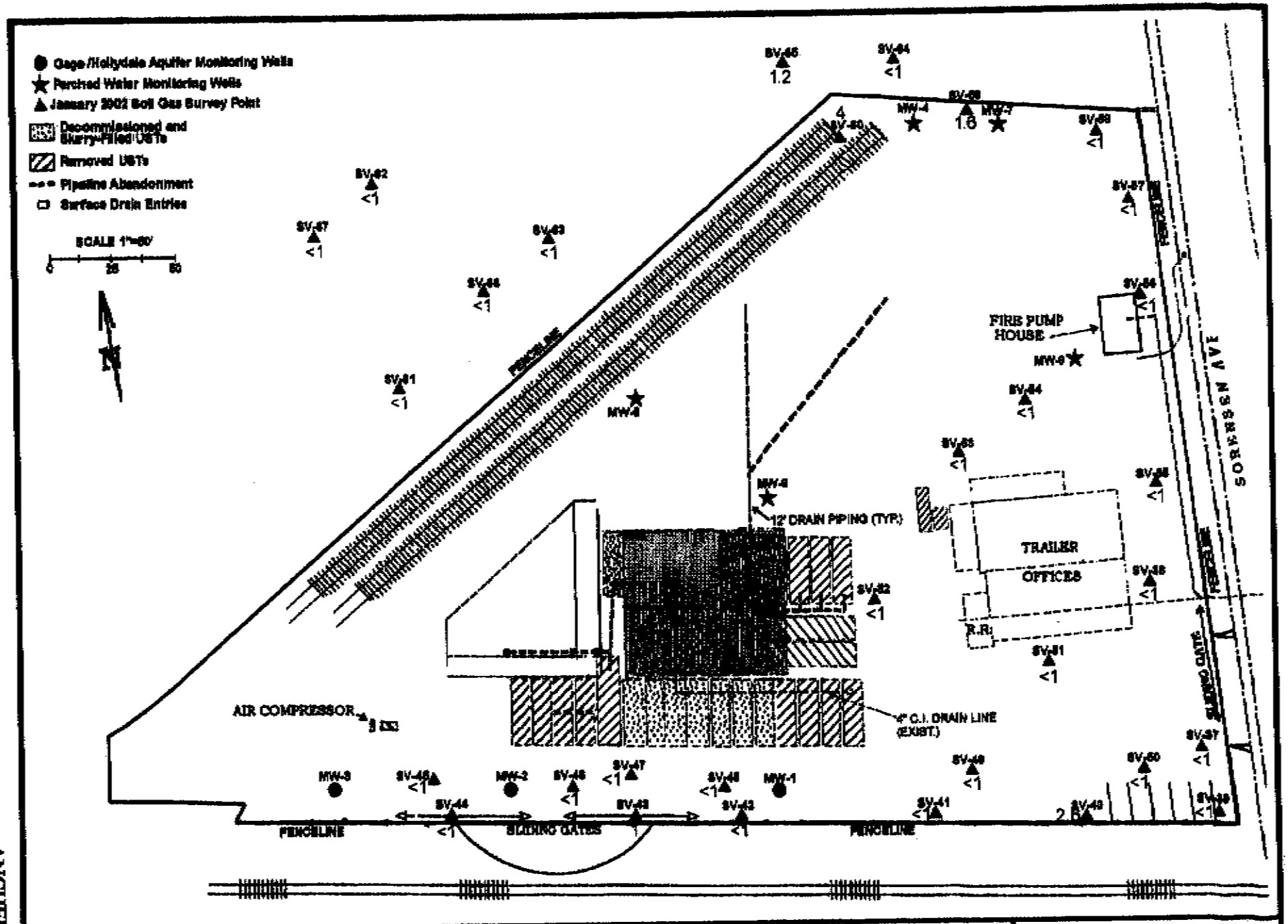
Blakely Environmental Investigations, Inc. 9605 Arrow Route, Suite "T" Rancho Cucamonga, CA 91730	Concentrations of 1,1,1, TCA (µg/L) in Soil Gas at 20' bg Former Angeles Chemical Company 8915 Sorensen Avenue, Santa Fe Springs, CA	FIGURE 22

ANCHEM1524



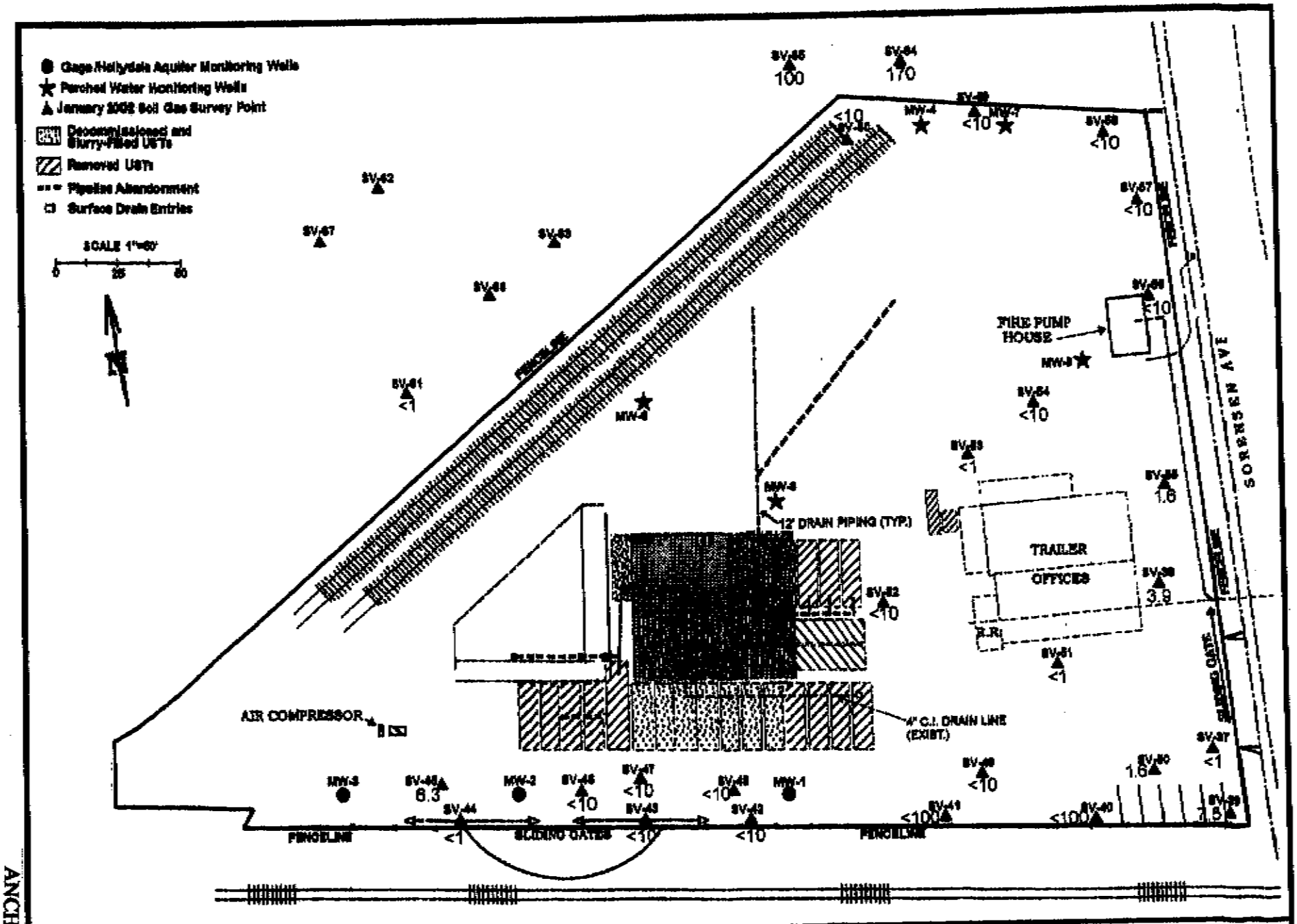
Blakely Environmental Investigations, Inc. 9605 Arrow Route, Suite "T" Rancho Cucamonga, CA 91730	Concentrations of TCE (µg/L) in Soil Gas at 5' bg Former Angeles Chemical Company 8915 Sorensen Avenue, Santa Fe Springs, CA	FIGURE 23

ANCHEM1525



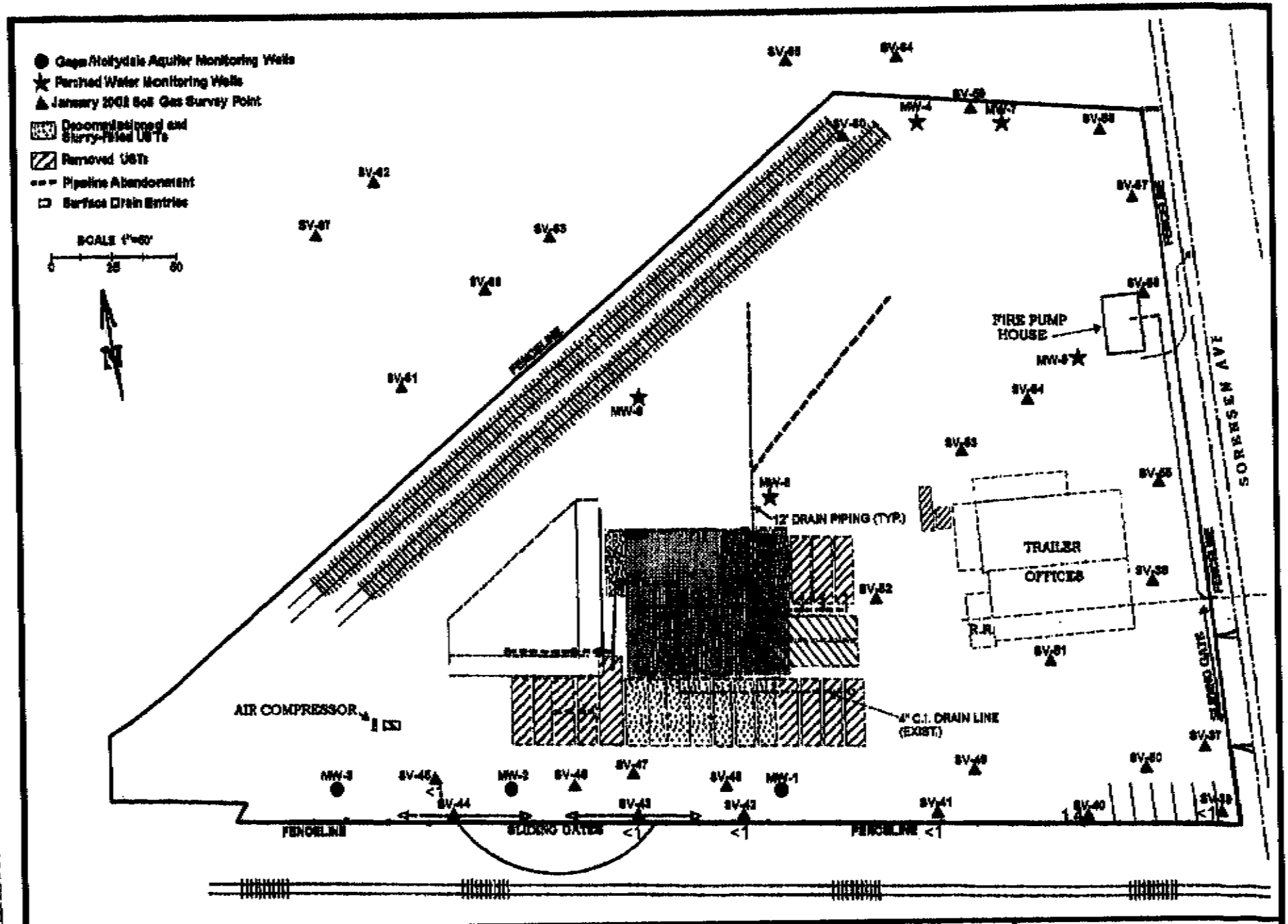
Blakely Environmental Investigations, Inc. 9605 Arrow Route, Suite "T" Rancho Cucamonga, CA 91730	Concentrations of TCE (µg/L) in Soil Gas at 7'-12' bg Former Angeles Chemical Company 8915 Sorensen Avenue, Santa Fe Springs, CA	FIGURE 24

ANCHEM1526



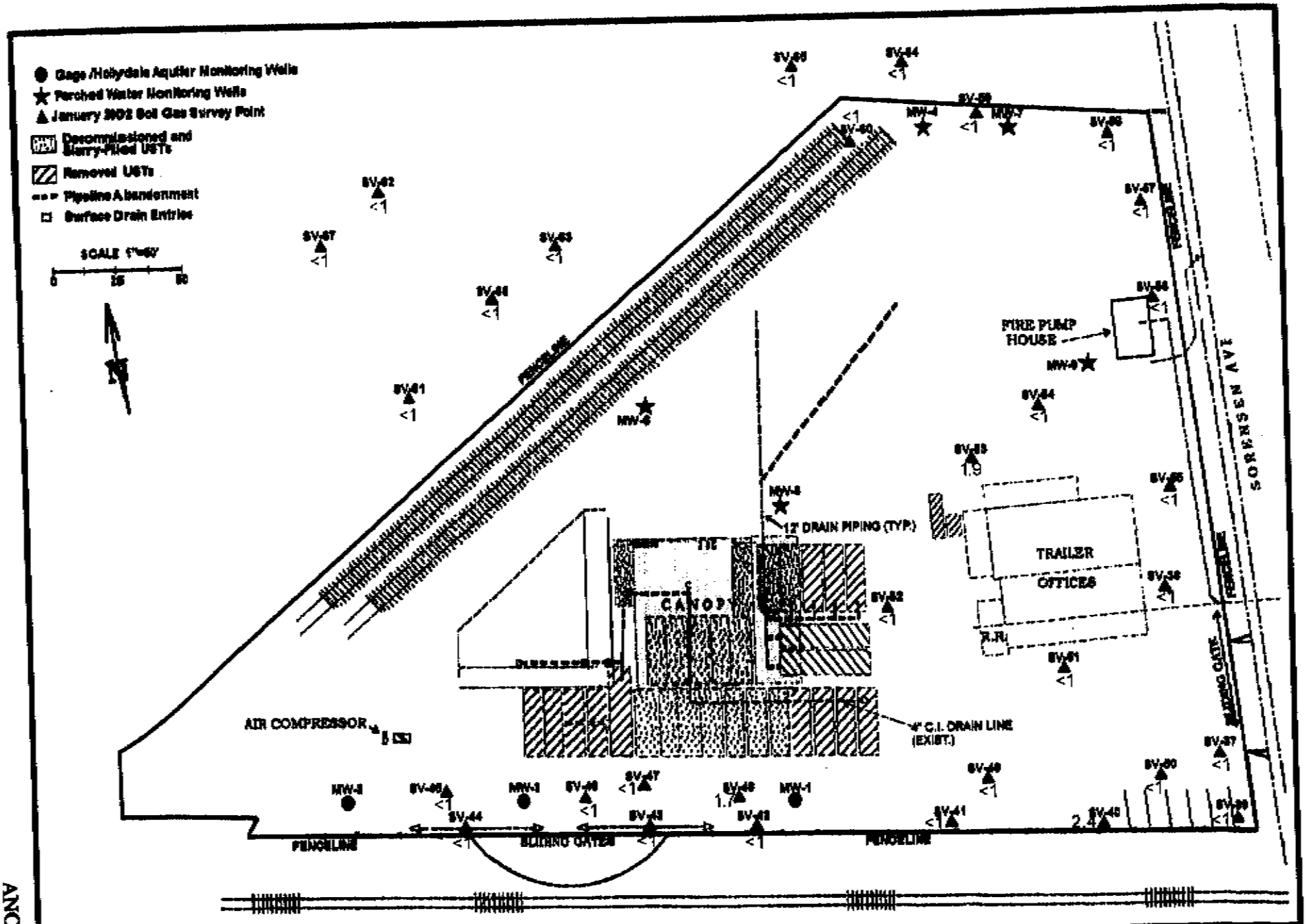
Shikely Environmental Investigations, Inc. 9605 Arrow Route, Suite "I" Rancho Cucamonga, CA 91730	Concentrations of TCE (µg/L) in Soil Gas at 20' bg Former Angeles Chemical Company 8915 Sorensen Avenue, Santa Fe Springs, CA	FIGURE 25

ANCHEM1527



Blakely Environmental Investigations, Inc. 9605 Arrow Route, Suite "T" Rancho Cucamonga, CA 91730	Concentrations of VC (µg/L) in Soil Gas at 5' bg Former Angeles Chemical Company 8915 Sorensen Avenue, Santa Fe Springs, CA	FIGURE 26

ANCHEM1528



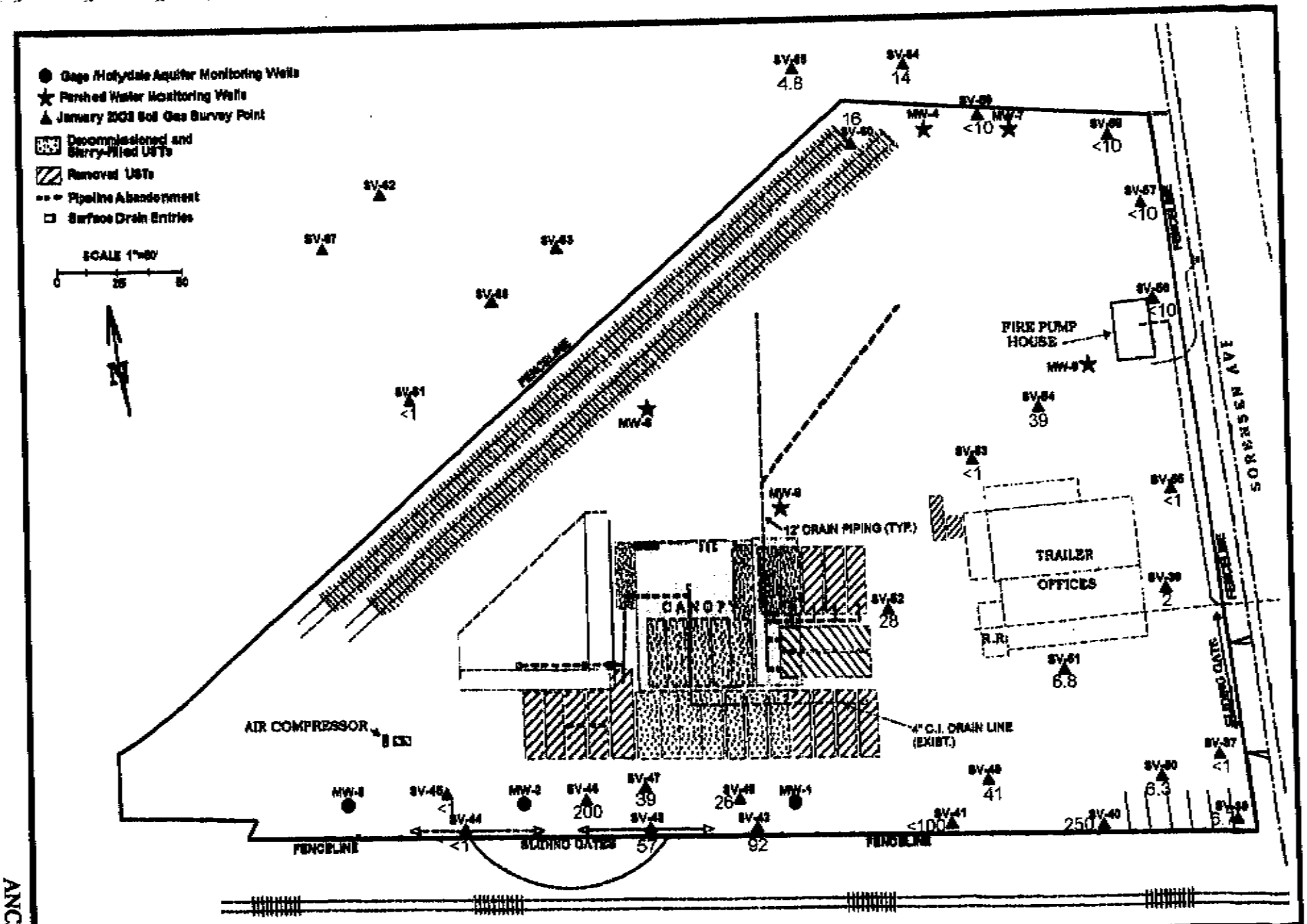
Blakely Environmental Investigations, Inc.
9605 Arrow Route, Suite "T"
Rancho Cucamonga, CA 91730

Concentrations of VC (µg/L) in Soil Gas at 7'-12' bg

Former Angeles Chemical Company
6915 Sorensen Avenue, Santa Fe Springs, CA

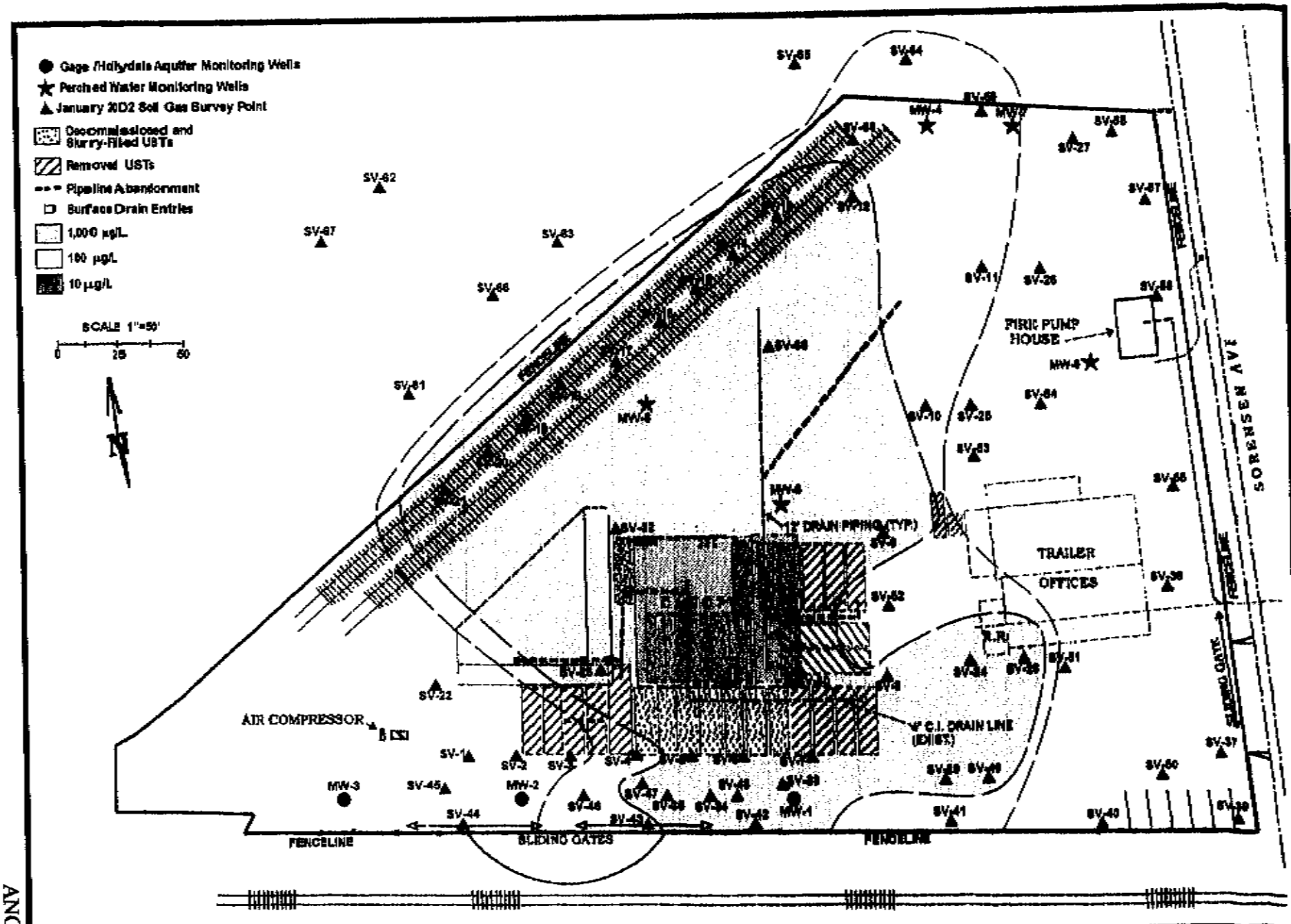
FIGURE 27

ANCHEM1529



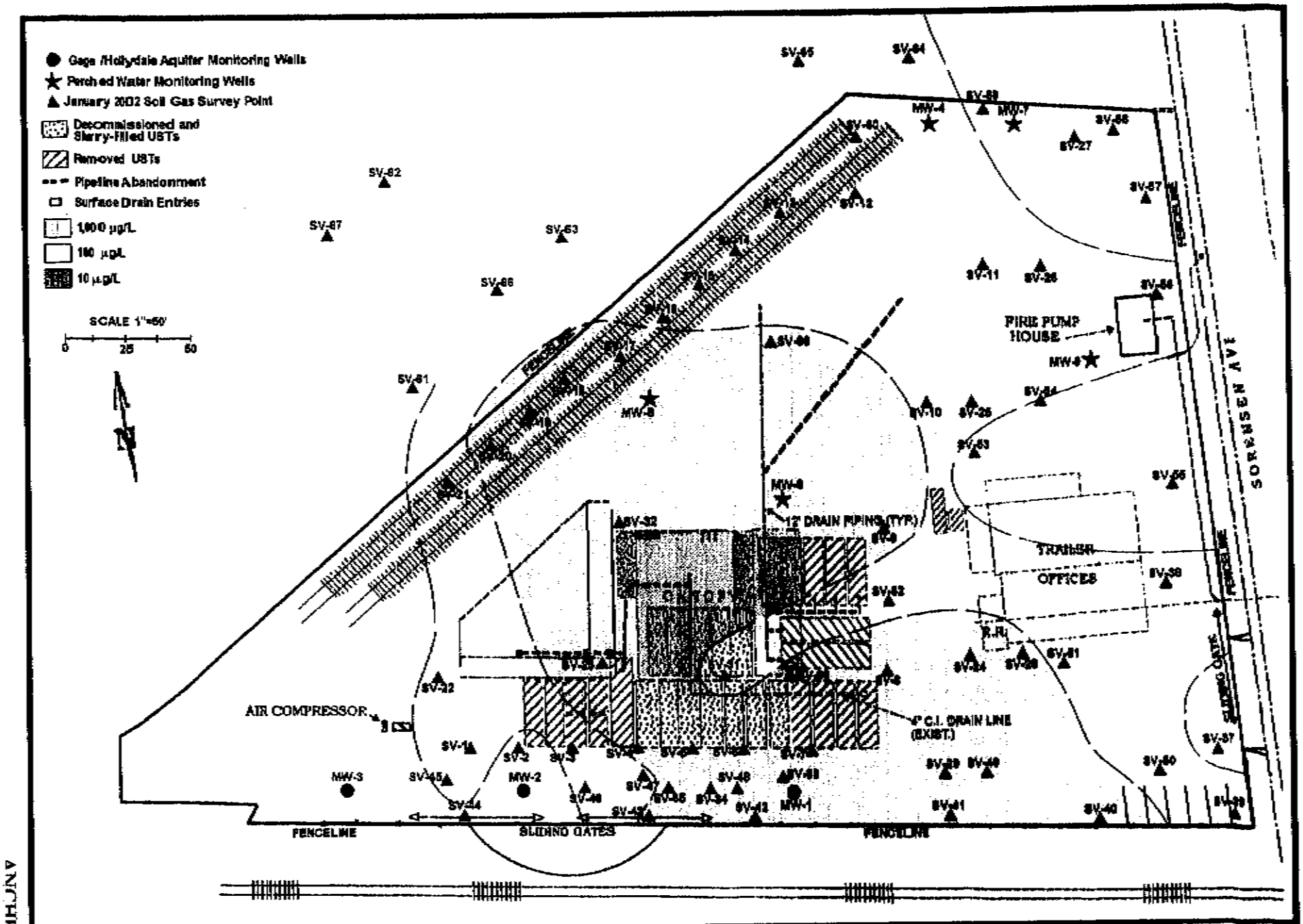
Blakely Environmental Investigations, Inc. **9605 Arrow Route, Suite "T"** **Rancho Cucamonga, CA 91730**	Concentrations of VC (µg/L) in Soil Gas at 20' bg **Former Angeles Chemical Company** **8915 Sorensen Avenue, Santa Fe Springs, CA**	FIGURE 28

ANCHEM1530



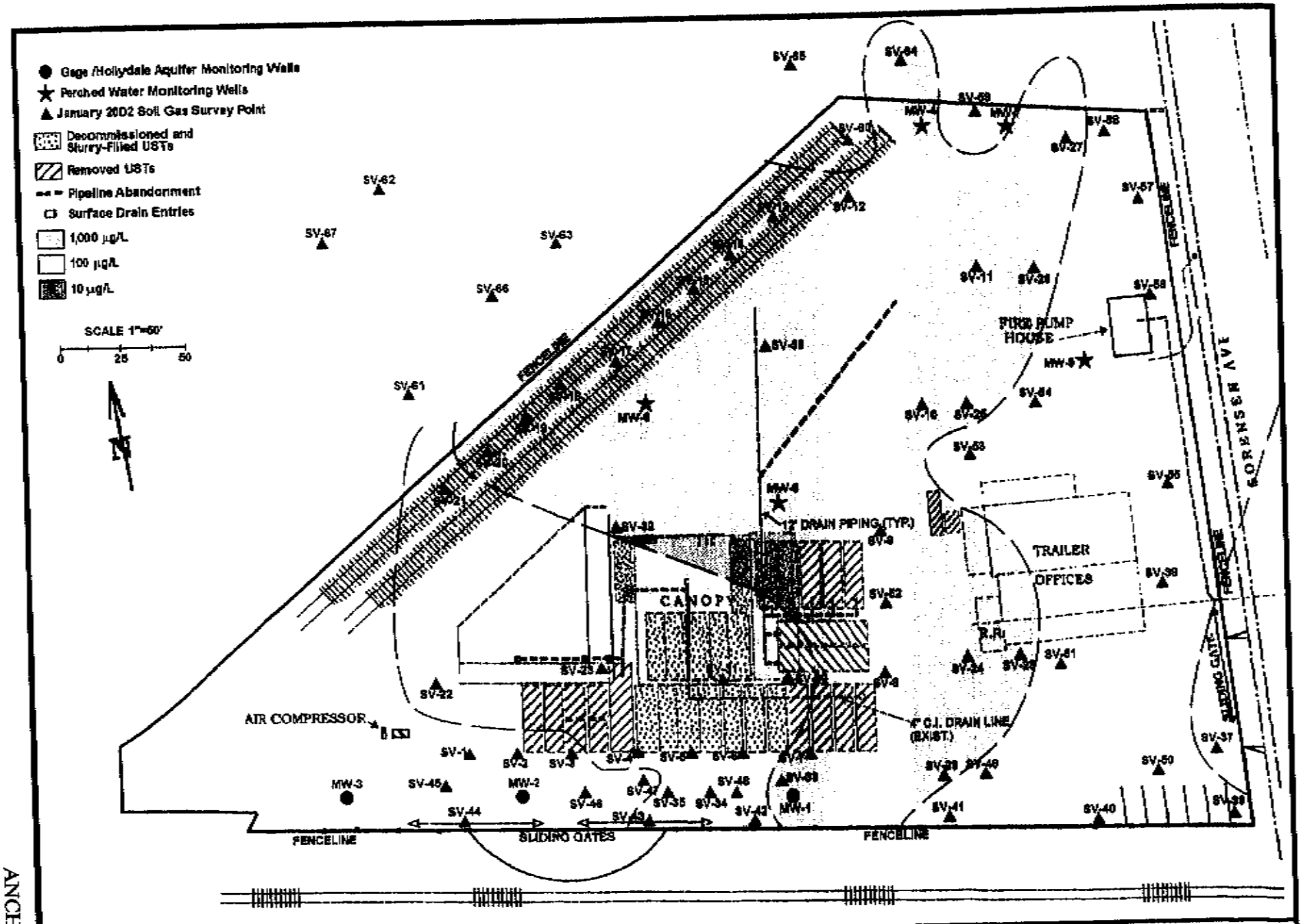
Blakely Environmental Investigations, Inc. 9605 Arrow Route, Suite "T" Rancho Cucamonga, CA 91730	Estimated Extent of BTEX in Soil Gas at 20' bg (µg/L) Former Angeles Chemical Company 8915 Sorensen Avenue, Santa Fe Springs, CA	FIGURE 29

ANCHEM1531



Blakely Environmental Investigations, Inc. **9605 Arrow Route, Suite "T"** **Rancho Cucamonga, CA 91730**	Estimated Extent of 1,1 DCA in Soil Gas at 20' bg (µg/L) **Former Angeles Chemical Company** **8915 Sorensen Avenue, Santa Fe Springs, CA**	FIGURE 30

ANCHEM1532



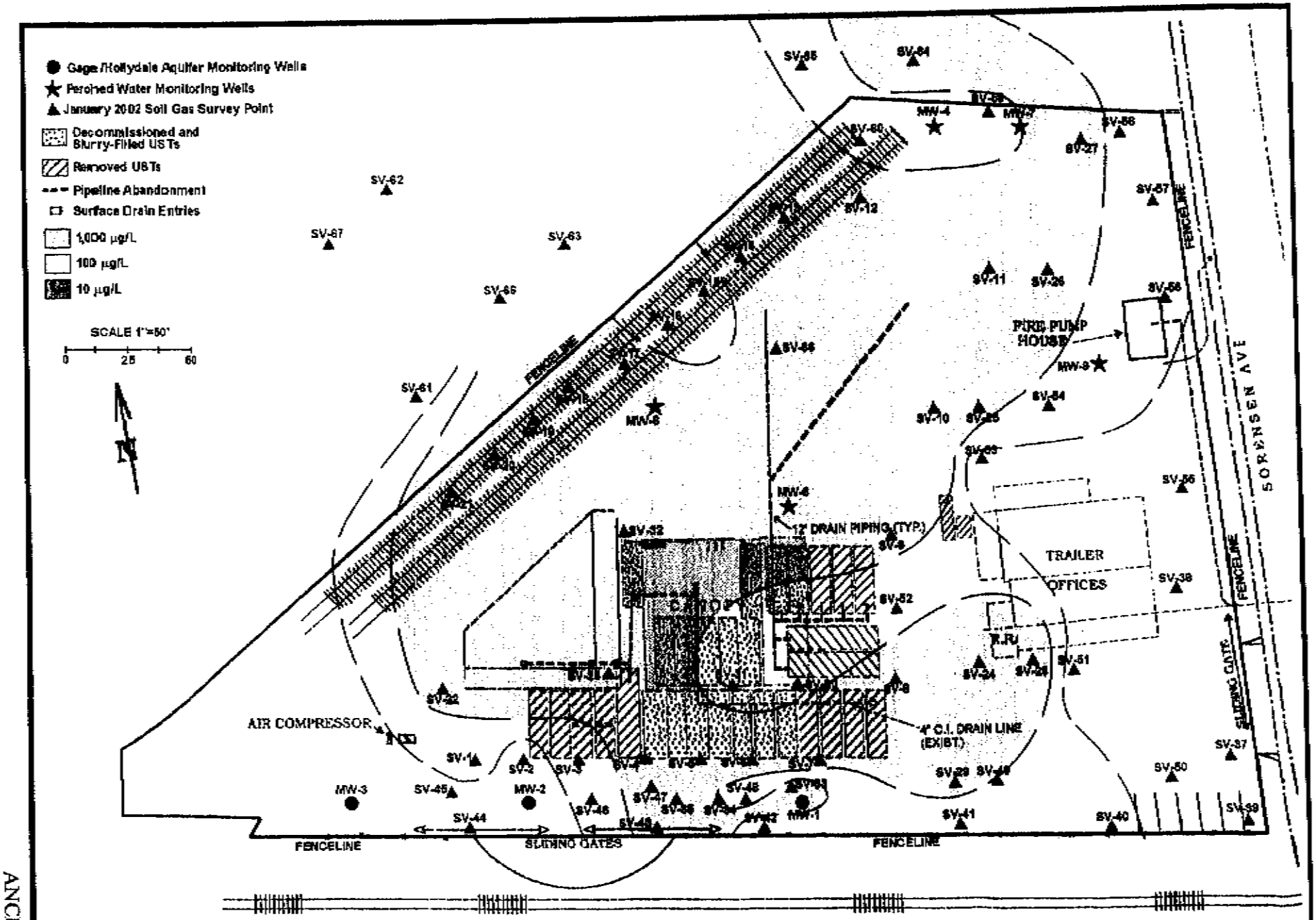
Blakely Environmental Investigations, Inc.
9605 Arrow Route, Suite "T"
Rancho Cucamonga, CA 91730

Estimated Extent of 1,1 DCE in Soil Gas at 20' bg (µg/L)

Former Angeles Chemical Company
8915 Sorensen Avenue, Santa Fe Springs, CA

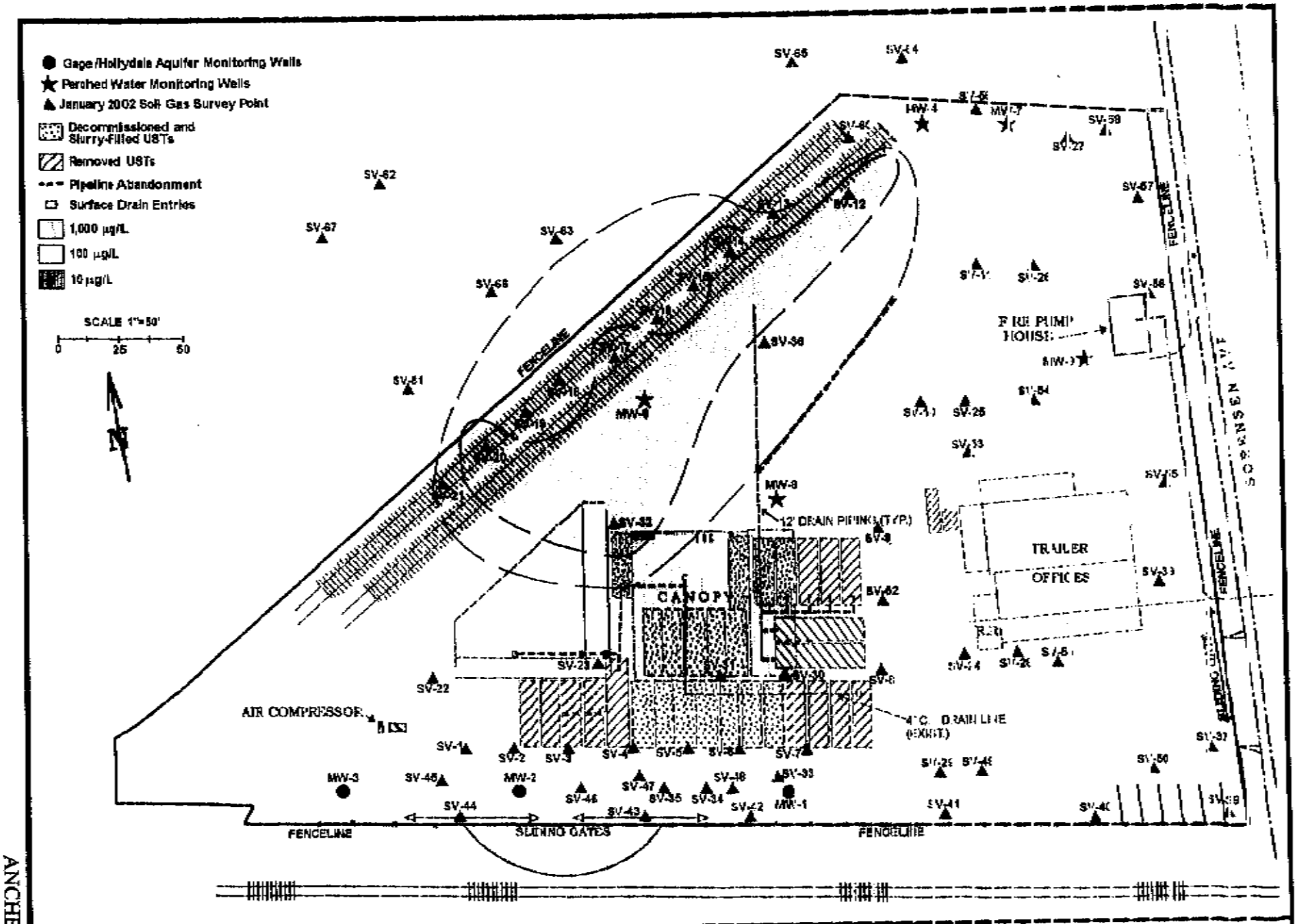
FIGURE 31

ANCHEM1533



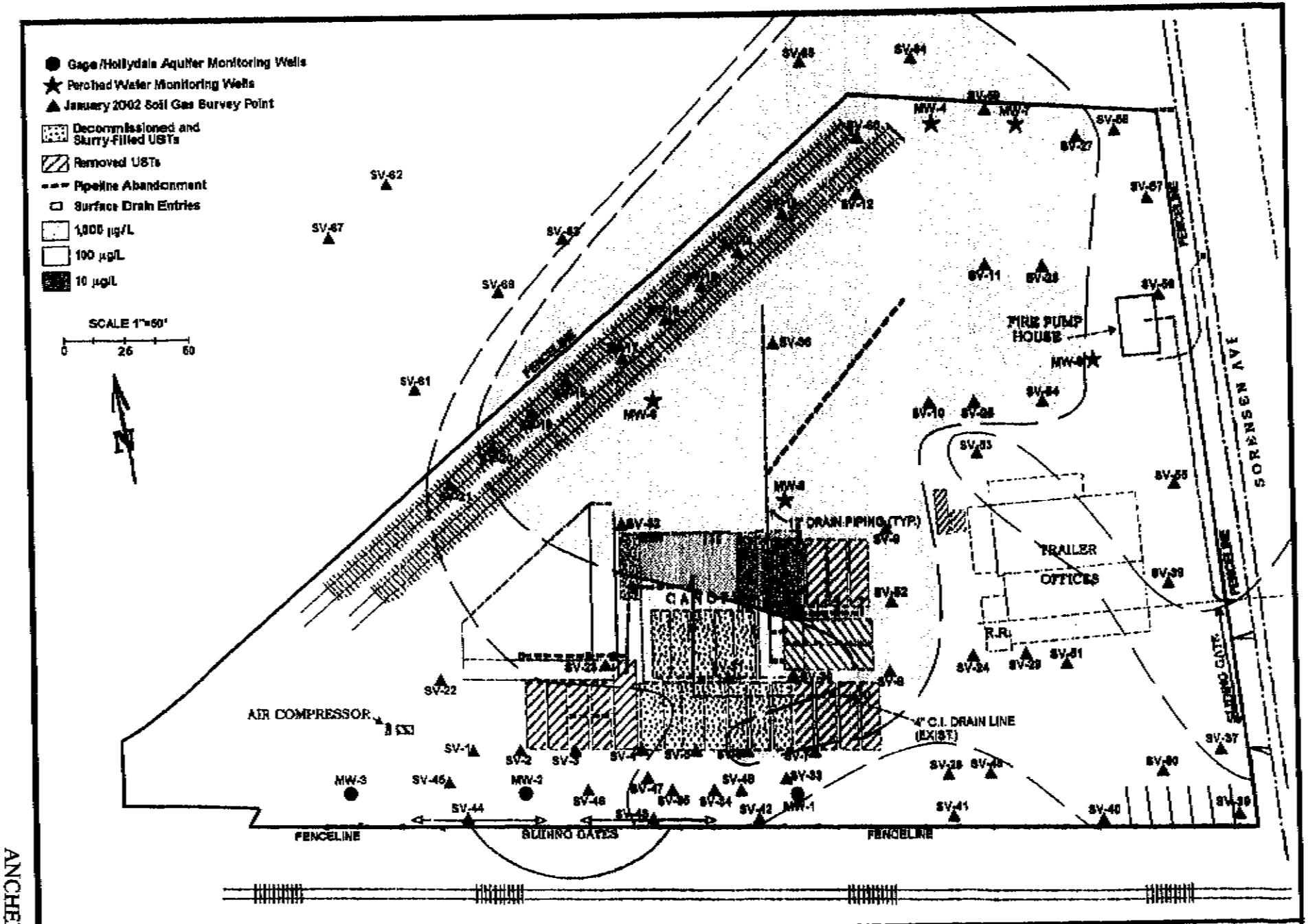
Blakely Environmental Investigations, Inc. **9605 Arrow Route, Suite "T"** **Rancho Cucamonga, CA 91730**	Estimated Extent of cis-1,2 DCE in Soil Gas at 20' bg (µg/L) **Former Angeles Chemical Company** **8915 Sorensen Avenue, Santa Fe Springs, CA**	FIGURE 32

ANCHEM1534



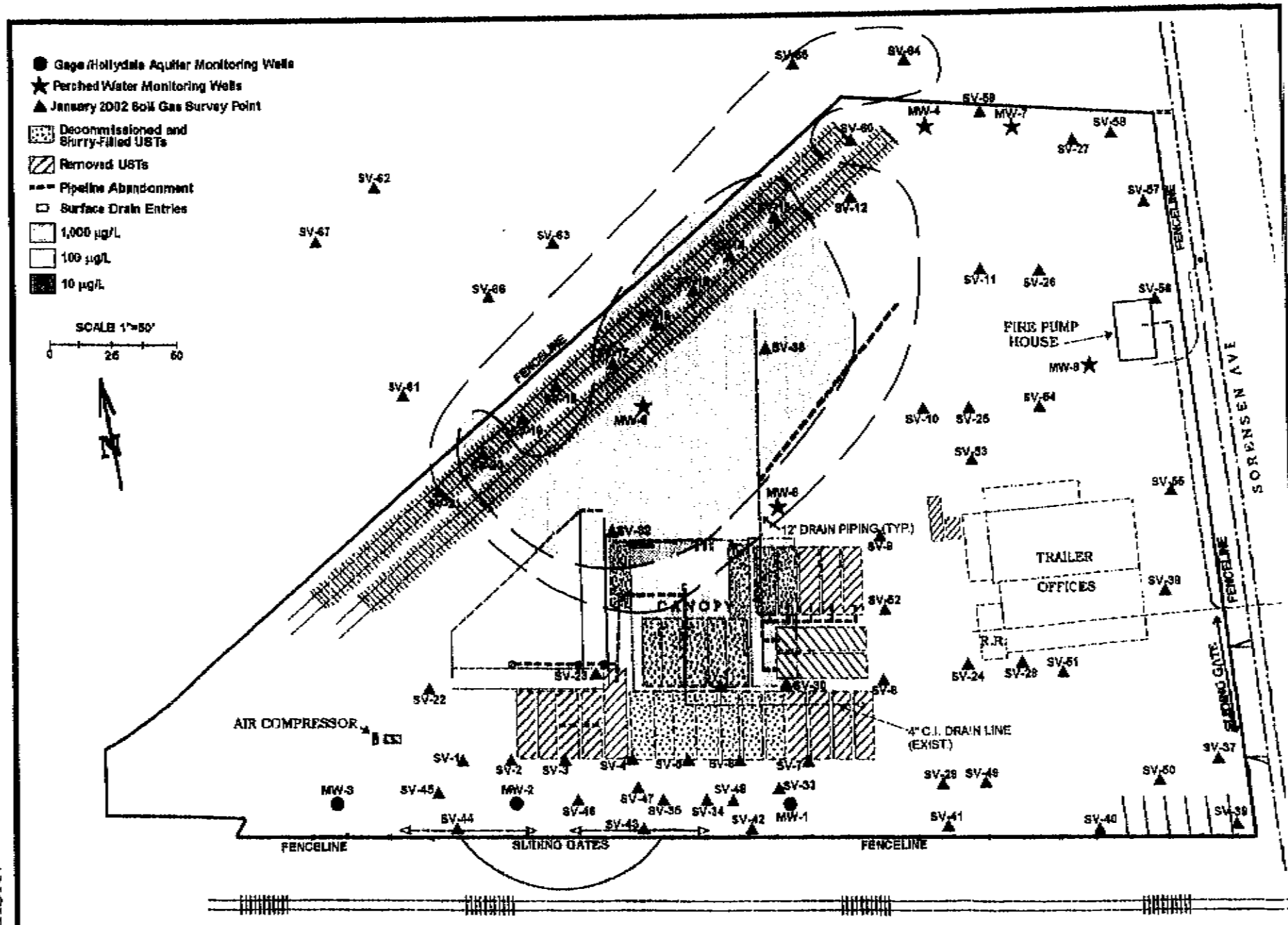
Blakely Environmental Investigations, Inc. **9605 Arrow Route, Suite "T"** **Rancho Cucamonga, CA 91730**	Estimated Extent of PCE in Soil Gas at 20' bg (µg/L) **Former Angeles Chemical Company** **8915 Sorensen Avenue, Santa Fe Springs, CA**	FIGURE 33

ANCHEM1535



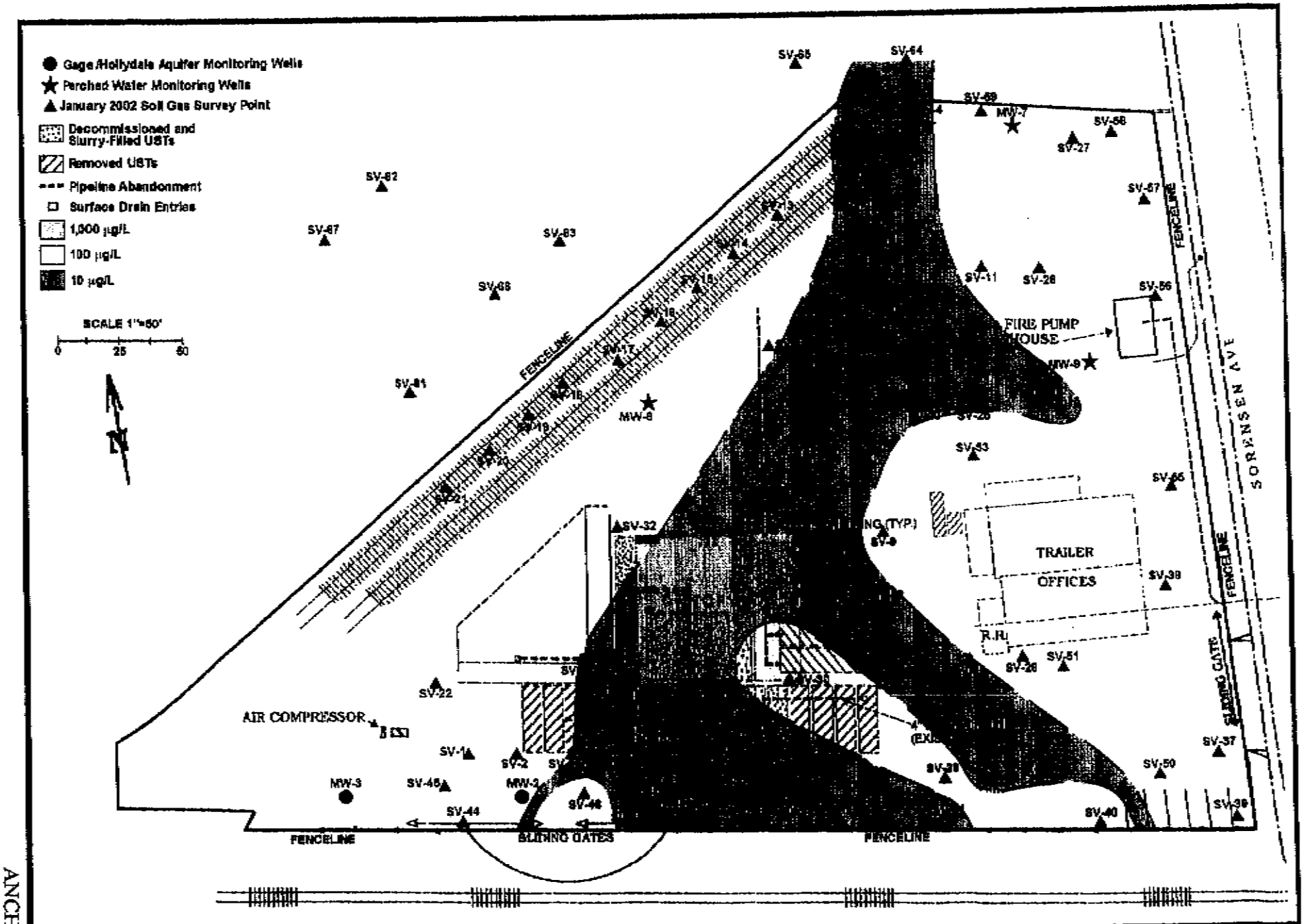
Blakely Environmental Investigations, Inc. **9605 Arrow Route, Suite "T"** **Rancho Cucamonga, CA 91730**	Estimated Extent of 1,1,1 TCA In Soil Gas at 20' bg (µg/L) **Former Angeles Chemical Company** **8915 Sorensen Avenue, Santa Fe Springs, CA**	FIGURE 34

ANCHEM1536



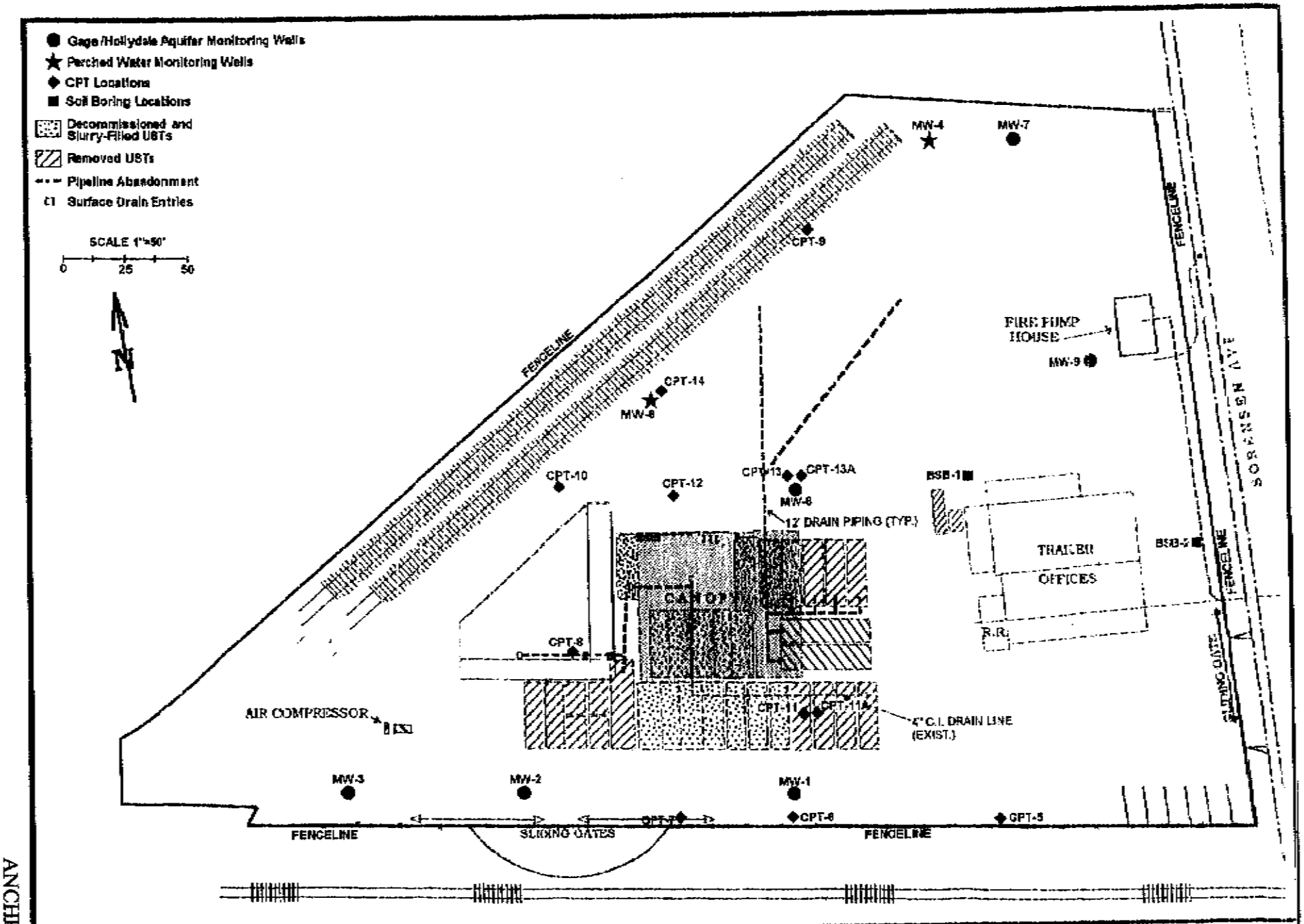
Blakely Environmental Investigations, Inc. **9605 Arrow Route, Suite "T"** **Rancho Cucamonga, CA 91730**	Estimated Extent of TCE in Soil Gas at 20' bg (µg/L) **Former Angeles Chemical Company** **8915 Sorensen Avenue, Santa Fe Springs, CA**	FIGURE 35

ANCHEM1537



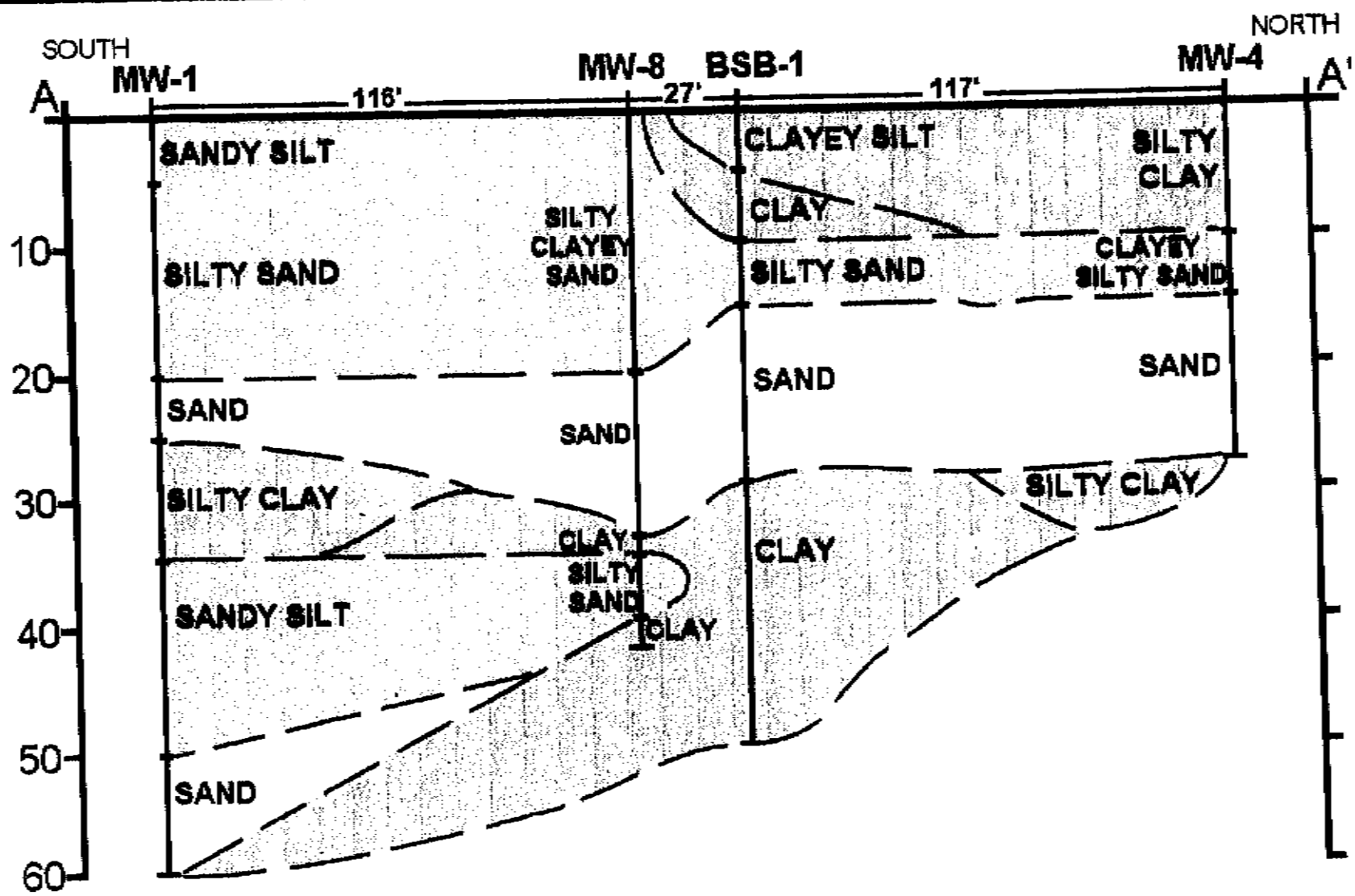
Blakely Environmental Investigations, Inc. 9605 Arrow Route, Suite "T" Rancho Cucamonga, CA 91730	Estimated Extent of VC in Soil Gas at 20' bg (µg/L)	FIGURE 36
	Former Angeles Chemical Company 8915 Sorensen Avenue, Santa Fe Springs, CA	

ANCHEM1538



Blakely Environmental Investigations, Inc. 9605 Arrow Route, Suite "T" Rancho Cucamonga, CA 91730	BEII Well/Boring Locations Former Angeles Chemical Company 8915 Sorensen Avenue, Santa Fe Springs, CA	FIGURE 37

ANCHEM1539



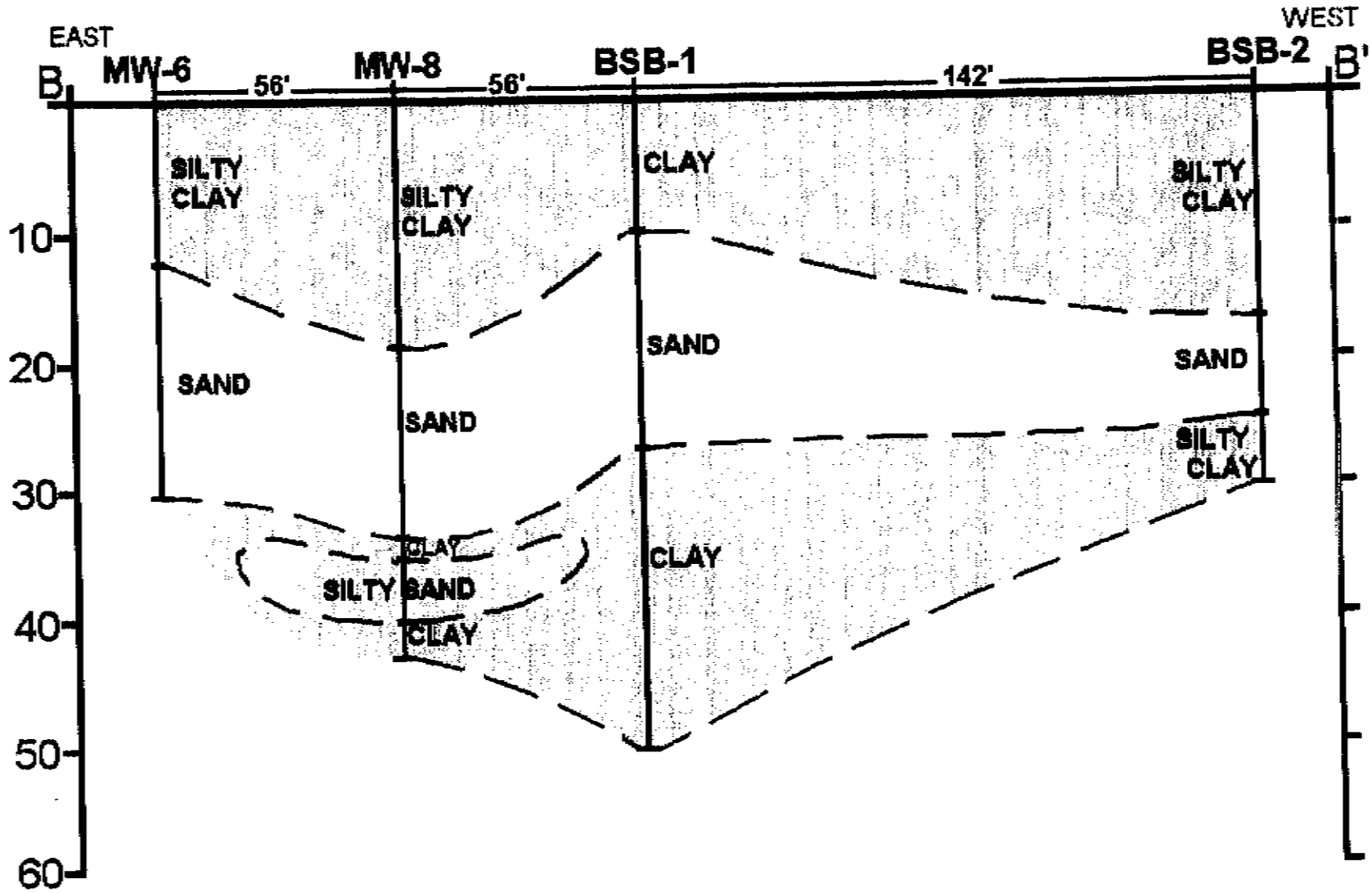
ANCHEM1540

Blakely Environmental Investigations, Inc.
9605 Arrow Route, Suite T
Rancho Cucamonga, CA 91730

SOUTH-NORTH LITHOLOGIC CROSS SECTION ALONG A-A'

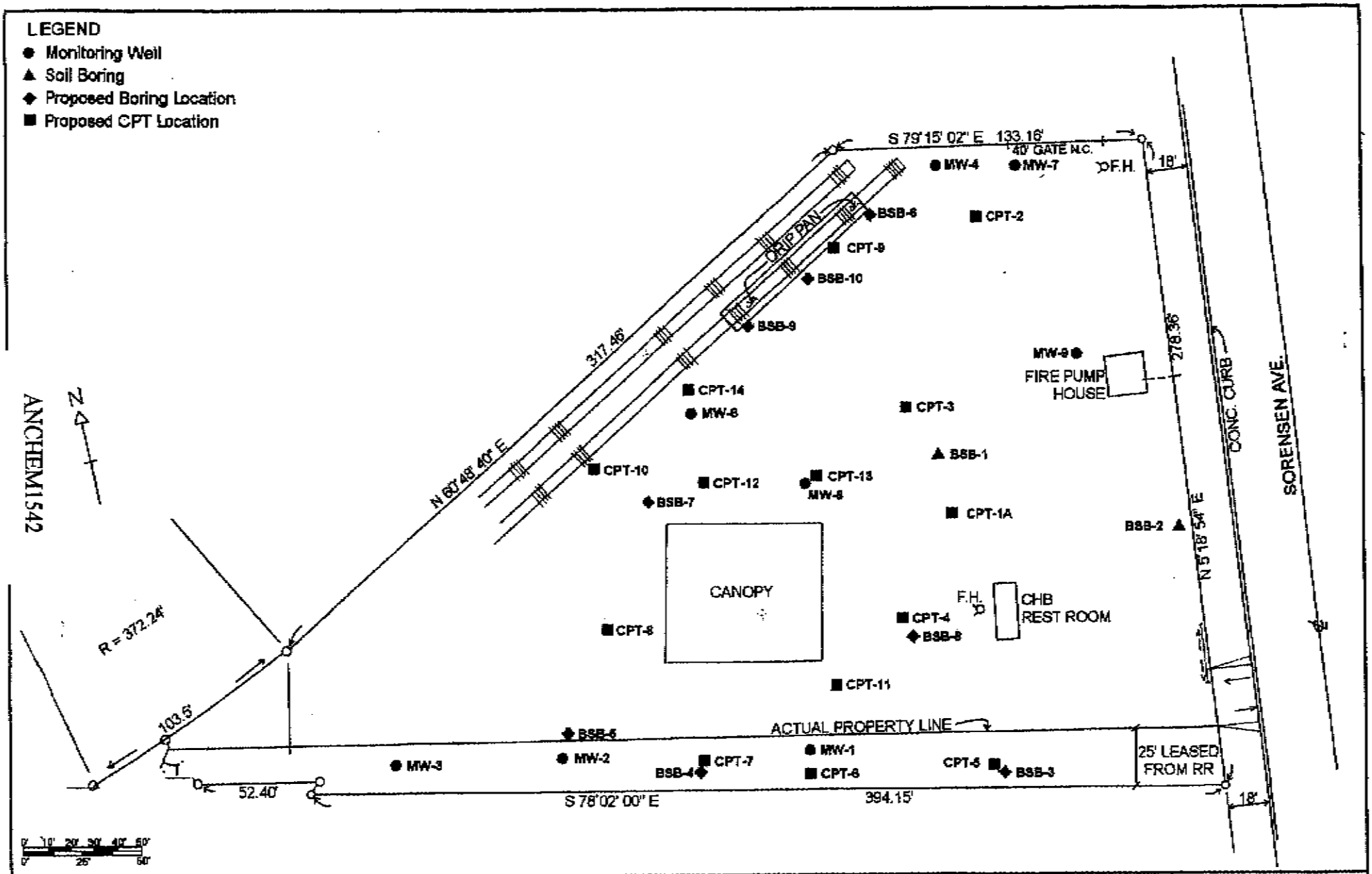
Former Angeles Chemical Company
8915 Sorensen Avenue, Santa Fe Springs, CA

FIGURE 38



ANCHEM1541

Blakely Environmental Investigations, Inc. 9605 Arrow Route, Suite T Rancho Cucamonga, CA 91730	EAST-WEST LITHOLOGIC CROSS SECTION ALONG B-B' Former Angeles Chemical Company 8915 Sorensen Avenue, Santa Fe Springs, CA	FIGURE 39



Blakely Environmental Investigations, Inc. 9605 Arrow Route, Suite T Rancho Cucamonga, California	Proposed Boring and CPT Locations **Former Angeles Chemical Company** **8915 Sorensen Avenue, Santa Fe Springs, CA**	FIGURE 40

TABLES

Table 1: January 2002 Soil Gas Survey Results Collected at 8' bg and 20' bg (ug/L)

COCs	Depth	SV37	SV38	SV45	SV45 S	SV46	SV47	SV48	SV49	SV50	SV50 D
Benzene	8' bg	1.4	<1	<1	NA	<1	<1	<1	<1	<1	<1
	20' bg	<1	<1	<1	<0.42	13	<10	<10	<10	<1	NA
1.1-DCA	8' bg	<1	<1	5.4	NA	3.3	6.5	63	48	58	55
	20' bg	17	125	20	42	590	850	1,300	1,600	150	NA
1,1-DCE	8' bg	<1	<1	<1	NA	<1	<1	4.3	5.7	19	18
	20' bg	32	280	1.6	2.9	72	82	240	700	130	NA
cis 1,2-DCE	8' bg	<1	<1	2.5	NA	2.3	4.5	55	22	19	17
	20' bg	5.9	75	22	72	810	1,000	730	710	35	NA
Ethylbenzene	8' bg	3.3	<1	<1	NA	<1	<1	11	3.1	2.2	1.2
	20' bg	<1	<1	<1	<0.57	95	110	92	170	<1	NA
PCE	8' bg	<1	1.4	<1	NA	<1	<1	<1	1.7	<1	<1
	20' bg	<1	6.3	2.4	39	<10	<10	<10	<10	1.5	NA
1,1,1-TCA	8' bg	<1	<1	2.6	NA	<1	1.4	25	6.9	3.6	3.3
	20' bg	28	410	2.8	7.1	50	330	92	67	140	NA
TCE	8' bg	<1	<1	<1	NA	<1	<1	<1	<1	<1	<1
	20' bg	<1	3.9	6.3	33	<10	<10	<10	<10	1.6	NA
Toluene	8' bg	4.6	<1	1.2	NA	<1	1.4	83	19	12	7.8
	20' bg	<1	<1	<1	<0.49	490	1,100	760	600	2	NA
Xylenes	8' bg	11.4	<1	<1	NA	<1	<1	38	12.7	8	3.3
	20' bg	<1	2.2	<1	<1.13	344	384	273	452	<1	NA
Vinyl Chloride	8' bg	<1	<1	<1	NA	<1	<1	1.7	<1	<1	<1
	20' bg	<1	2	<1	1.1	200	39	26	41	6.3	NA

Table 1 (cont.): 2002 Soil Gas Survey Results Collected at 8' bg and 20' bg (ug/L)

COCs	Depth	SV50 S	SV51	SV52	SV53	SV54	SV55	SV55 S	SV56	SV57	SV58
Benzene	8' bg	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1
	20' bg	<2.1	<1	<10	<1	<10	<1		<10	<10	<10
1,1-DCA	8' bg	NA	3.9	6.6	7.2	1.7	4.9	NA	9.3	5.6	1.3
	20' bg	**288**	**190**	**920**	3.7	**330**	**30**		**120**	**79**	**34**
1,1-DCE	8' bg	NA	**1.1**	2.8	3.8	5.5	**48**	NA	**71**	**48**	6
	20' bg	**202**	**210**	**900**	7	**800**	**180**		**590**	**500**	**210**
cis 1,2-DCE	8' bg	NA	1.1	1.6	5.9	2.9	7.5	NA	**22**	**23**	**8**
	20' bg	**68**	**66**	**790**	3	**780**	**54**		**330**	**460**	**220**
Ethylbenzene	8' bg	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1
	20' bg	<2.9	<1	**21**	<1	<10	<1		<10	<10	<10
PCE	8' bg	NA	<1	<1	<1	<1	1.8	NA	2.4	3.4	<1
	20' bg	**10**	<1	<10	<1	<10	2.3		<10	<10	<10
1,1,1-TCA	8' bg	NA	<1	3.3	5.3	1.6	**57**	NA	**96**	**61**	**13**
	20' bg	**288**	**250**	**2,100**	2	**1,400**	**250**		**990**	**800**	**370**
TCE	8' bg	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1
	20' bg	4	<1	<10	<1	<10	1.6		<10	<10	<10
Toluene	8' bg	NA	1.3	<1	<1	<1	<1	NA	<1	<1	<1
	20' bg	<2.5	<1	**38**	<1	<10	<1		<10	<10	<10
Xylenes	8' bg	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1
	20' bg	<5.8	<1	**51**	<1	<10	<1		<10	<10	<10
Vinyl Chloride	8' bg	NA	<1	<1	1.9	<1	<1	NA	<1	<1	<1
	20' bg	4.3	6.8	**28**	<1	**39**	<1		<10	<10	<10

Table 1 (cont.): 2002 Soil Gas Survey Results Collected at 8' bg and 20' bg (ug/L)

COCs	Depth	SV59	SV60	SV60 S
Benzene	8' bg	<1	<1	NA
	20' bg	<10	<10	<10
1,1-DCA	8' bg	9.8	55	NA
	20' bg	58	140	285
1,1-DCE	8' bg	1.7	22	NA
	20' bg	67	300	712
cis 1,2-DCE	8' bg	96	120	NA
	20' bg	610	800	2,200
Ethylbenzene	8' bg	<1	1.5	NA
	20' bg	10	<10	15
PCE	8' bg	<1	5.1	NA
	20' bg	<10	<10	23
1,1,1-TCA	8' bg	13	250	NA
	20' bg	880	890	2,400
TCE	8' bg	1.6	4	NA
	20' bg	<10	<10	18
Toluene	8' bg	3.6	15	NA
	20' bg	91	16	24
Xylenes	8' bg	<1	4.7	NA
	20' bg	26	<10	22
Vinyl Chloride	8' bg	<1	<1	NA
	20' bg	<10	16	11

Blue= Chemicals stored on-site. Red= Transformation compounds from chemicals stored on-site. D= Duplicate. S= Summa.

ANCHEM1546

Table 2: January 2002 Soil Gas Survey Results Collected at 5' bg, 10' bg, and 20' bg (ug/L)

COCs	Depth	SV39	SV40	SV40 S	SV41	SV41 D	SV42	SV43	SV44
Benzene	5' bg	<1	<1	NA	<1	<1	1.1	<1	<1
	10' bg	<1	<1	NA	<1	NA	<1	<1	<1
	20' bg	3.7	<100	<8.3	<100	NA	<10	<10	<1
1,1-DCA	5' bg	5.3	**51**	NA	**67**	**59**	**22**	**12**	**17**
	10' bg	5.9	**72**	NA	**50**	NA	9.2	**34**	6.4
	20' bg	**180**	**1,400**	**2,090**	**2,500**	NA	**2,000**	**1,000**	5.5
1,1-DCE	5' bg	**18**	**61**	NA	**22**	**20**	5.7	**1**	**16**
	10' bg	**17**	**81**	NA	**15**	NA	2	1.1	**13**
	20' bg	**180**	**480**	**671**	**710**	NA	**510**	**100**	<1
cis 1,2-DCE	5' bg	**6.9**	**18**	NA	**13**	**10**	6.7	5.5	**37**
	10' bg	**6**	**24**	NA	**16**	NA	2.9	**30**	**27**
	20' bg	**55**	**270**	**519**	**920**	NA	**990**	**1,200**	6.5
Ethylbenzene	5' bg	<1	<1	NA	<1	<1	2.3	<1	<1
	10' bg	<1	<1	NA	<1	NA	<1	<1	<1
	20' bg	5.5	<100	**37**	<100	NA	**130**	**90**	<1
PCE	5' bg	1.2	3.6	NA	<1	<1	**25**	<1	3.7
	10' bg	<1	3.7	NA	<1	NA	6.6	2.1	<1
	20' bg	**12**	<100	<18	<100	NA	<10	<10	<1
1,1,1-TCA	5' bg	**14**	**58**	NA	4.9	4.3	**19**	4.2	**51**
	10' bg	**18**	**79**	NA	3.1	NA	6.1	6.8	**32**
	20' bg	**210**	**140**	**255**	<100	NA	**100**	**280**	3.2
TCE	5' bg	1.1	2.4	NA	<1	<1	3.1	<1	2
	10' bg	<1	2.6	NA	<1	NA	<1	1	<1
	20' bg	7.5	<100	<14	<100	NA	<10	<10	<1

Table 2: 2002 Soil Gas Survey Results Collected at 5' bg, 10' bg, and 20' bg (ug/L)

COCs	Depth	SV39	SV40	SV40 S	SV41	SV41 D	SV42	SV43	SV44
Toluene	5' bg	<1	<1	NA	<1	<1	3.4	3.7	1
	10' bg	<1	<1	NA	<1	NA	<1	1.5	<1
	20' bg	**37**	<100	**27**	**240**	NA	**1,000**	**940**	<1
Xylenes	5' bg	<1	<1	NA	<1	<1	8.1	1.1	<1
	10' bg	<1	<1	NA	<1	NA	<1	<1	<1
	20' bg	**21.3**	<100	**86**	**220**	NA	**342**	**284**	<1
Vinyl Chloride	5' bg	<1	1.4	NA	<1	<1	<1	<1	<1
	10' bg	<1	2.4	NA	<1	NA	<1	<1	<1
	20' bg	6.7	**250**	**178**	<100	NA	**92**	**57**	<1

Blue= Chemicals stored on-site. D= Duplicate. S= Summa.
Red= Transformation compounds from chemicals stored on-site.

Table 3: June 2002 Soil Gas Survey Results Collected between 7' bg and 12' bg (ug/L)

COCs	Depth	SV66	SV67	SV62	SV63	SV61	SV64	SV65	SV65 S
Benzene	7' bg	<1	<1	NA	NA	NA	NA	NA	NA
	10.5' bg	NA	NA	<1	<1	NA	NA	NA	NA
	12' bg	NA	NA	NA	NA	<1	<1	<1	NA
	20' bg	NA	NA	NA	NA	<1	**2.7**	**1.7**	**2.5**
1,1-DCA	7' bg	<1	<1	NA	NA	NA	NA	NA	NA
	10.5' bg	NA	NA	**7.1**	**1.8**	NA	NA	NA	NA
	12' bg	NA	NA	NA	NA	<1	<1	<1	NA
	20' bg	NA	NA	NA	NA	**2.4**	**280**	**160**	**138**
1,1-DCE	7' bg	<1	<1	NA	NA	NA	NA	NA	NA
	10.5' bg	NA	NA	<1	<1	NA	NA	NA	NA
	12' bg	NA	NA	NA	NA	<1	<1	**3.5**	NA
	20' bg	NA	NA	NA	NA	<1	**1100**	**670**	**1070**
cis 1,2-DCE	7' bg	<1	<1	NA	NA	NA	NA	NA	NA
	10.5' bg	NA	NA	<1	<1	NA	NA	NA	NA
	12' bg	NA	NA	NA	NA	**7.1**	**7.3**	**8.1**	NA
	20' bg	NA	NA	NA	NA	**26**	**3200**	**880**	**1550**
Ethylbenzene	7' bg	<1	<1	NA	NA	NA	NA	NA	NA
	10.5' bg	NA	NA	<1	<1	NA	NA	NA	NA
	12' bg	NA	NA	NA	NA	<1	<1	<1	NA
	20' bg	NA	NA	NA	NA	<1	**31**	**1.3**	<2
PCE	7' bg	<1	<1	NA	NA	NA	NA	NA	NA
	10.5' bg	NA	NA	<1	<1	NA	NA	NA	NA
	12' bg	NA	NA	NA	NA	<1	<1	**1**	NA
	20' bg	NA	NA	NA	NA	<1	**59**	**58**	**79**
1,1,1-TCA	7' bg	<1	<1	NA	NA	NA	NA	NA	NA
	10.5' bg	NA	NA	<1	<1	NA	NA	NA	NA
	12' bg	NA	NA	NA	NA	<1	<1	**16**	NA
	20' bg	NA	NA	NA	NA	<1	**4300**	**1600**	**2650**

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Table 3 (cont.): June 2002 Soil Gas Survey Results Collected between 7' bg and 12' bg (ug/L)

COCs	Depth	SV66	SV67	SV62	SV63	SV61	SV64	SV65	SV65 S
TCE	7' bg	<1	<1	NA	NA	NA	NA	NA	NA
	10.5' bg	NA	NA	<1	<1	NA	NA	NA	NA
	12' bg	NA	NA	NA	NA	<1	<1	**1.2**	NA
	20' bg	NA	NA	NA	NA	<1	**170**	**100**	**104**
Toluene	7' bg	<1	<1	NA	NA	NA	NA	NA	NA
	10.5' bg	NA	NA	<1	<1	NA	NA	NA	NA
	12' bg	NA	NA	NA	NA	<1	<1	**1.2**	NA
	20' bg	NA	NA	NA	NA	**10**	**110**	**12**	**13.7**
Xylenes	7' bg	<1	<1	NA	NA	NA	NA	NA	NA
	10.5' bg	NA	NA	<1	<1	NA	NA	NA	NA
	12' bg	NA	NA	NA	NA	<1	<1	<1	NA
	20' bg	NA	NA	NA	NA	<1	**81**	**34**	**81**
Vinyl Chloride	7' bg	<1	<1	NA	NA	NA	NA	NA	NA
	10.5' bg	NA	NA	<1	<1	NA	NA	NA	NA
	12' bg	NA	NA	NA	NA	<1	<1	<1	NA
	20' bg	NA	NA	NA	NA	<1	**14**	**4.8**	**8.8**

Blue= Chemicals stored on-site.
Red= Transformation compounds from chemicals stored on-site.

D= Duplicate.
NA= Not Analyzed.

S= Summa.

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Table 4: June 2002 EPA Method 8015 Soil Sample Results for TPH (mg/kg)				
Boring No.	Depth	TPH-g (C_4-C_{12})	TPH-d (C_{13}-C_{23})	TPH-m (C_{24}-C_{40})
BSB-1	1.5	NA	<10	<10
	5	1.6	NA	NA
	6.5	NA	<10	<10
	10	<1	NA	NA
	10.5	NA	<10	<10
	17.5	<1	<10	<10
	20	<1	<10	<10
	27.5	<1	<10	<10
	28	1.2	<10	<10
	35	<1	<10	<10
	35 (Dup 1)	<1	<10	<10
	40	<1	<10	<10
	40 (Dup 2)	NA	<10	<10
	50	<1	<10	<10
	50 (Dup 3)	<1	<10	<10
BSB-2	4	<1	NA	NA
	9	<1	NA	NA
	14	<1	NA	NA
	18	<1	<10	<10
	21	<1	<10	<10
	21 (Dup 4)	<1	NA	NA
	26.5	<1	<10	<10
MW-8	3.5	<1	NA	NA
	10	<1	NA	NA
	15	<1	NA	NA
	15 (Dup 5)	<1	NA	NA
	19	<1	<10	<10
	24	2.1	<10	<10
	29	417	NA	NA
	30	991	72	<10
	32.5	3120	456	<10
	35	358	17	<10
	40	586	105	<10
	42.5	7.6	<10	<10

Table 4 (cont.): June 2002 EPA Method 8015 Soil Sample Results for TPH (mg/kg)				
Boring No.	Depth	TPH-g (C_4-C_{12})	TPH-d (C_{13}-C_{23})	TPH-m (C_{24}-C_{40})
MW-9	3	<1	NA	NA
	10	<1	NA	NA
	12.5	NA	<10	<10
	15	1.3	NA	NA
	20	<1	<10	<10
	25	<1	<10	<10
	29	<1	NA	NA
	30	NA	<10	<10
	35	<1	<10	<10
	40	<1	<10	<10
	40 (Dup 6)	<1	NA	NA
	45	<1	<10	<10
	50	<1	<10	<10
( )= Duplicate samples taken.				
TPH-g= Total Petroleum Hydrocarbons as Gasloline.				
TPH-d= Total Petroleum Hydrocarbons as Diesel.				
TPH-m= Total Petroleum Hydrocarbons as Motor Oil.				

Table 5: June 2002 EPA Series 7000 Soil Sample Results for Metals (mg/kg)

Element	BSB-1 @ 1.5'	BSB-1 @ 6.5'	BSB-1 @ 10.5'	BSB-2 @ 1.5'	BSB-2 @ 6.5'	BSB-2 @ 11.5'	MW-8 @ 1.5'	PRGs
Antimony	<5	<5	<5	<5	<5	<5	<5	*31*
Arsenic	<0.3	8.8	2.4	8.9	3.2	3	2	*22/0.39**
Barium	208	454	241	248	316	157	143	*5400*
Beryllium	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	*150*
Cadmium	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	*1.7*[t]
Chromium	17.5	22.3	20.5	14.9	21.5	13	8.7	*210*
Cobalt	10.2	15	15.8	17.8	23.4	13.8	11	*900*
Copper	20.2	26.6	17.4	31	41.2	16.2	15.4	*3100*
Lead	47	9	11.2	21.4	12	5.4	32.8	*400/150*[t]
Mercury	<0.03	0.04	0.05	<0.03	0.08	0.05	<0.03	*23*
Molybdenum	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	3.9	*390*
Nickel	27	36.8	32.4	52	66.8	33.8	27.8	*1600*
Selenium	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	*390*
Silver	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	*390*
Thalium	<5	<5	<5	<5	<5	<5	<5	*5.2*
Vanadium	46	56	51	41	51	24	19	*550*
Zinc	80	78	62	118	120	84	106	*23000*

PRGs= EPA Preliminary Remediation Goals for Residencial Soil.
* = cancer endpoint.
t = California modified.

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Table 5 (cont.): June 2002 EPA Series 7000 Soil Sample Results for Metals (mg/kg)

Element	MW-8 @ 6.5'	MW-8 @ 11.5'	MW-9 @ 3'	MW-9 @ 5.5'	PRGs
Antimony	<5	<5	<5	<5	*31*
Arsenic	8.3	1.2	6.5	6	*22/0.39**
Barium	364	199	357	578	*5400*
Beryllium	<1.3	<1.3	<1.3	<1.3	*150*
Cadmium	<1.3	<1.3	<1.3	<1.3	*1.7*[+]
Chromium	15.2	14.4	20.2	15.7	*210*
Cobalt	20.6	13.2	23	20.4	*900*
Copper	32.8	19.2	36.4	32.2	*3100*
Lead	11	6.6	12	13	*400/150*[+]
Mercury	0.06	<0.03	<0.03	<0.03	*23*
Molybdenum	4.5	3.6	<2.5	<2.5	*390*
Nickel	54.6	42.8	58.8	52.8	*1600*
Selenium	<0.3	<0.3	<0.3	<0.3	*390*
Silver	<2.5	<2.5	<2.5	<2.5	*390*
Thalium	<5	<5	<5	<5	*5.2*
Vanadium	39	29	41	36	*550*
Zinc	104	94	116	104	*23000*

PRGs= EPA Preliminary Remediation Goals for Residencial Soil.
* = cancer endpoint.
t = California modified.

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Table 6: June 2002 EPA Method 8260 Detectable Soil Sample Results for VOCs (ug/kg)

VOCs	BSB-1 @ 5'	BSB-1 @ 10'	BSB-1 @ 17.5'	BSB-1 @ 20'	BSB-1 @ 27.5'	BSB-1 @ 28'	BSB-1 @ 35'
1,1 DCA	5.7	35	<5	112	305	745	205
1,1 DCE	<5	<5	<5	37.5	222	110	100
cis-1,2 DCE	19.5	50	<5	178	365	1580	308
1,1,1 TCA	<5	<5	<5	115	550	230	95
1,2 DCA	<5	<5	<5	<5	<5	<5	<5
TCE	<5	<5	<5	<5	<5	<5	<5
PCE	<5	<5	<5	<5	<5	<5	<5
Benzene	<5	<5	<5	<5	<5	<5	<5
Toluene	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene	<5	<5	<5	<5	<5	<5	<5
Xylene	<5	<5	<5	<5	<5	130	<5
Isopropylbenzene	<25	<25	<25	<25	<25	<25	<25
n-Propylbenzene	<5	<5	<5	<5	<5	<5	<5
1,3,5-Trimethylbenzene	<5	<5	<5	<5	<5	<5	<5
1,2,4-Trimethylbenzene	<5	<5	<5	<5	<5	120	<5
n-Butylbenzene	<5	<5	<5	<5	<5	<5	<5
Naphthalene	<5	<5	<5	<5	<5	<5	<5

Table 6 (cont.): June 2002 EPA Method 8260 Detectable Soil Sample Results for VOCs (ug/kg)

VOCs	BSB-1 @ 40'	Dup 2 @ 40'	BSB-1 @ 45'	BSB-2 @ 4'	BSB-2 @ 9'	BSB-2 @ 14'	BSB-2 @ 18'
1,1 DCA	196	150	148	12	5.6	<5	35
1,1 DCE	132	130	80	<5	<5	<5	<5
cis-1,2 DCE	270	185	125	<5	<5	<5	<5
1,1,1 TCA	<5	<5	<5	11	5.6	<5	55
1,2 DCA	<5	<5	<5	<5	<5	<5	<5
TCE	<5	<5	<5	<5	<5	<5	<5
PCE	<5	<5	<5	<5	<5	6.8	<5
Benzene	<5	<5	<5	<5	<5	<5	<5
Toluene	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene	<5	<5	<5	<5	<5	<5	<5
Xylene	<5	<5	<5	<5	<5	<5	<5
Isopropylbenzene	<25	<25	<25	<25	<25	<25	<25
n-Propylbenzene	<5	<5	<5	<5	<5	<5	<5
1,3,5-Trimethylbenzene	<5	<5	<5	<5	<5	<5	<5
1,2,4-Trimethylbenzene	<5	<5	<5	<5	<5	<5	<5
n-Butylbenzene	<5	<5	<5	<5	<5	<5	<5
Naphthalene	<5	<5	<5	<5	<5	<5	<5

Table 6 (cont.): June 2002 EPA Method 8260 Detectable Soil Sample Results for VOCs (ug/kg)

VOCs	BSB-2 @ 21'	Dup 4 @ 21'	BSB-2 @ 26.5'	MW-8 @ 3.5'	MW-8 @ 10'	MW-8 @ 15'	Dup 5 @ 15'
1,1 DCA	<5	<5	18.5	27.5	40	47.5	47.7
1,1 DCE	<5	<5	9.1	<5	<5	5.6	8.6
cis-1,2 DCE	<5	<5	22	8	20	25	27.2
1,1,1 TCA	<5	<5	42.5	42.5	52.5	45	35
1,2 DCA	<5	<5	<5	<5	<5	<5	<5
TCE	<5	<5	<5	<5	<5	<5	<5
PCE	<5	<5	<5	<5	<5	<5	<5
Benzene	<5	<5	<5	<5	<5	<5	<5
Toluene	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene	<5	<5	<5	<5	<5	<5	<5
Xylene	<5	<5	<5	<5	<5	<5	<5
Isopropylbenzene	<25	<25	<25	<25	<25	<25	<25
n-Propylbenzene	<5	<5	<5	<5	<5	<5	<5
1,3,5-Trimethylbenzene	<5	<5	<5	<5	<5	<5	<5
1,2,4-Trimethylbenzene	<5	<5	<5	<5	<5	<5	<5
n-Butylbenzene	<5	<5	<5	<5	<5	<5	<5
Naphthalene	<5	<5	<5	<5	<5	<5	<5

Table 6 (cont.): June 2002 EPA Method 8260 Detectable Soil Sample Results for VOCs (ug/kg)

VOCs	MW-8 @ 19'	MW-8 @ 24'	MW-8 @ 29'	MW-8 @ 30'	MW-8 @ 32.5'	MW-8 @ 35'	MW-8 @ 40'
1,1 DCA	175	455	991	7350	29800	3680	2090
1,1 DCE	6.7	195	<5	<5	1850	<5	90
cis-1,2 DCE	115	265	748	3600	12300	1900	1360
1,1,1 TCA	247	835	9550	36400	42800	10200	10600
1,2 DCA	<5	<5	<5	4920	<5	<5	<5
TCE	<5	<5	<5	<5	<5	460	260
PCE	<5	<5	<5	<5	<5	<5	160
Benzene	<5	<5	<5	<5	<5	<5	<5
Toluene	<5	<5	2310	34100	65500	6920	7250
Ethylbenzene	<5	<5	2260	14100	27900	3340	3510
Xylene	<5	<5	9580	52000	92600	10900	11600
Isopropylbenzene	<25	<25	438	2750	5290	520	566
n-Propylbenzene	<5	<5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1,3,5-Trimethylbenzene	<5	<5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1,2,4-Trimethylbenzene	<5	<5	15500	80500	161000	17300	18400
n-Butylbenzene	<5	<5	968	4350	7950	800	851
Naphthalene	<5	<5	1040	6100	11000	980	1290

Table 6 (cont.): June 2002 EPA Method 8260 Detectable Soil Sample Results for VOCs (ug/kg)

VOCs	MW-8 @ 42.5'	MW-9 @ 3'	MW-9 @ 10'	MW-9 @ 15'	MW-9 @ 20'	MW-9 @ 25'	MW-9 @ 29'
1,1 DCA	145	5	<5	5	<5	15	95
1,1 DCE	35	5.1	<5	<5	<5	<5	33
cis-1,2 DCE	212	17.6	<5	22.5	7.2	60	400
1,1,1 TCA	55	13.3	<5	<5	<5	7.6	35
1,2 DCA	<5	<5	<5	<5	<5	<5	<5
TCE	<5	6.7	<5	<5	<5	<5	<5
PCE	<5	24.8	<5	<5	<5	<5	<5
Benzene	62.5	<5	<5	<5	<5	<5	<5
Toluene	452	<5	<5	<5	<5	<5	<5
Ethylbenzene	25	<5	<5	<5	<5	<5	<5
Xylene	113	<5	<5	<5	<5	<5	<5
Isopropylbenzene	<5	<25	<25	<25	<25	<25	<25
n-Propylbenzene	<5	<5	<5	<5	<5	<5	<5
1,3,5-Trimethylbenzene	95	<5	<5	<5	<5	<5	<5
1,2,4-Trimethylbenzene	50	<5	<5	<5	<5	<5	<5
n-Butylbenzene	<5	<5	<5	<5	<5	<5	<5
Naphthalene	<5	<5	<5	<5	<5	<5	<5

Table 6 (cont.): June 2002 EPA Method 8260 Detectable Soil Sample Results for VOCs (ug/kg)

VOCs	MW-9 @ 35'	MW-9 @ 40'	Dup 6 @ 40'	MW-9 @ 45'	MW-9 @ 50'
1,1 DCA	88	26	73	5.7	<5
1,1 DCE	85	27	30	12	21.8
cis-1,2 DCE	68	19	50	5	<5
1,1,1 TCA	<5	<5	<5	<5	<5
1,2 DCA	<5	<5	<5	<5	<5
TCE	<5	5.6	<5	<5	<5
PCE	<5	<5	<5	<5	<5
Benzene	<5	<5	<5	<5	<5
Toluene	<5	<5	<5	<5	<5
Ethylbenzene	<5	<5	<5	<5	<5
Xylene	<5	<5	<5	<5	<5
Isopropylbenzene	<25	<25	<25	<25	<25
n-Propylbenzene	<5	<5	<5	<5	<5
1,3,5-Trimethylbenzene	<5	<5	<5	<5	<5
1,2,4-Trimethylbenzene	<5	<5	<5	<5	<5
n-Butylbenzene	<5	<5	<5	<5	<5
Naphthalene	<5	<5	<5	<5	<5

APPENDICES

1/29/2002

Blakely Environmental Investigation
9605 Arrow Route, Suite T
Rancho Cucamonga, CA 91730

Project Name: Angeles Chemical
Project No.:

Attention: Mr. Hiram Garcia

The following sample(s) were received and analyzed:

Date Received	Quantity	Matrix
1/14/02	15	Vapor
1/15/02	18	Vapor
1/16/02	16	Vapor
1/17/2002	7	Vapor

The samples were analyzed by one or more of the EPA methodologies or equivalent methods listed below.

VOCs -- EPA Method 8260

The results are included with a summary of the quality control procedures. Please note that the symbol "nd" indicates a value below the reporting limit for the particular compound in the sample.

Please feel free to call us to discuss any part of this report or to schedule future projects.

Sincerely,

Tamara Davis
Lab Director

Mobile One Laboratories is certified by the California Department of Health Services (certificate #s: 1194, 1561, 1921, 2088, 2278).

HP Labs Project # BEI011402-L2

Report Summary

EPA Method 8260B (5030 Prep.)

Client: Blakely Environmental Investigation
Project: Angeles Chemical

Matrix: vapor
Units: ug/L

Sample Name:		SV38-8	SV38-8	SV38-8
Analysis Date		14 Jan 2002	14 Jan 2002	14 Jan 2002
Analysis Time		10:55 am	11:16 am	11:38 am
Dilution Factor:	0.1	0.1	0.1	0.1
Purge Volume:		29 cc	87 cc	135 cc
Compound	E.Q.L	Amount Found	Amount Found	Amount Found
Freon-113	1	nd	nd	nd
Dichlorodifluoromethane	1	nd	nd	nd
Vinyl Chloride	1	nd	nd	nd
Chloroethane	1	nd	nd	nd
Trichlorofluoromethane	1	nd	nd	nd
1,1-Dichloroethene	1	1.3	nd	nd
Methylene Chloride	1	nd	nd	nd
Methyl-t-butylether	1	nd	nd	nd
trans-1,2-Dichloroethene	1	nd	nd	nd
1,1-Dichloroethane	1	nd	nd	nd
cis-1,2-Dichloroethene	1	nd	nd	nd
Chloroform	1	nd	nd	nd
1,1,1-Trichloroethane	1	2.0	nd	nd
Carbon Tetrachloride	1	nd	nd	nd
1,2-Dichloroethane	1	nd	nd	nd
Benzene	1	nd	nd	nd
Trichloroethene	1	nd	nd	nd
Toluene	1	nd	nd	nd
1,1,2-Trichloroethane	1	nd	nd	nd
Tetrachloroethene	1	nd	1.4	nd
Ethylbenzene	1	nd	nd	nd
1,1,1,2-Tetrachloroethane	1	nd	nd	nd
m,p-Xylene	1	nd	nd	nd
o-Xylene	1	nd	nd	nd
1,1,2,2-Tetrachloroethane	1	nd	nd	nd

Surrogates	Spiked	QC Limits(% Rec.)			Percent Recovery
DBFM	50 ng	75-125	89	90	92
1,2-DCA-d4	50 ng	70-130	81	82	80
Toluene - d8	50 ng	75-125	96	95	95
1,4-BFB	50 ng	75-125	88	91	89

Analyses performed by: Mark Lathrop

BEI011402-L2

ANCHEM1564

Report Summary

EPA Method 8260B (5030 Prep.)

Client: Blakely Environmental Investigation
Project: Angeles Chemical

Matrix: vapor
Units: ug/L

Sample Name:		SV37-8	SV37-20	SV38-8	SV38-21	SV39-5	SV39-10
Analysis Date		14 Jan 2002	14 Jan 2002	14 Jan 2002	14 Jan 2002	14 Jan 2002	14 Jan 2002
Analysis Time		9:20 am	10:03 am	11:16 am	12:17 pm	1:07 pm	1:29 pm
Dilution Factor:	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Purge Volume:		87 cc	120 cc	87 cc	123 cc	87 cc	99 cc
Compound	E.Q.L	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found
Freon-113	1	nd	3.1	nd	17	2.8	2.3
Dichlorodifluoromethane	1	nd	nd	nd	nd	nd	nd
Vinyl Chloride	1	nd	nd	nd	2.0	nd	nd
Chloroethane	1	nd	nd	nd	nd	nd	nd
Trichlorofluoromethane	1	nd	nd	nd	nd	nd	nd
1,1-Dichloroethene	1	nd	32	nd	280 D	18	17
Methylene Chloride	1	nd	nd	nd	nd	nd	nd
Methyl-t-butylether	1	nd	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	1	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	1	nd	17	nd	125	5.3	5.9
cis-1,2-Dichloroethene	1	nd	5.9	nd	75	6.9	6.0
Chloroform	1	nd	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	1	nd	28	nd	410 D	14	18
Carbon Tetrachloride	1	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane	1	nd	nd	nd	nd	nd	nd
Benzene	1	1.4	nd	nd	nd	nd	nd
Trichloroethene	1	nd	nd	nd	3.9	1.1	nd
Toluene	1	4.6	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	1	nd	nd	nd	nd	nd	nd
Tetrachloroethene	1	nd	nd	1.4	6.3	1.2	nd
Ethylbenzene	1	3.3	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd
m,p-Xylene	1	9.6	nd	nd	nd	nd	nd
o-Xylene	1	1.8	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd	nd	nd

Surrogates	Spiked	QC Limits(% Rec.)			Percent Recovery			
DBFM	50 ng	75-125	86	89	90	91	92	92
1,2-DCA-d4	50 ng	70-130	79	81	82	84	85	83
Toluene - d8	50 ng	75-125	96	97	95	95	93	95
1,4-BFB	50 ng	75-125	85	88	91	89	92	91

Analyses performed by: Mark Lathrop

BEI011402-L2

ANCHEM1565

Report Summary

EPA Method 8260B (5030 Prep.)

Client: Blakely Environmental Investigation
Project: Angeles Chemical

Matrix: vapor
Units: ug/L

Sample Name:		SV39-20	SV40-5	SV40-10	SV40-20	SV41-5	SV41-5 Dup
Analysis Date		14 Jan 2002	14 Jan 2002	14 Jan 2002	14 Jan 2002	14 Jan 2002	14 Jan 2002
Analysis Time		1:51 pm	2:38 pm	3:00 pm	3:42 pm	4:14 pm	4:36 pm
Dilution Factor:	0.1	0.1	0.1	0.1	10	0.1	0.1
Purge Volume:		123 cc	87 cc	99 cc	123 cc	87 cc	87 cc
Compound	E.Q.L	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found
Freon-113	1	34	11	16	< 100	5.8	5.3
Dichlorodifluoromethane	1	nd	nd	nd	< 100	nd	nd
Vinyl Chloride	1	6.7	1.4	2.4	250	nd	nd
Chloroethane	1	nd	nd	nd	< 100	3.6	3.6
Trichlorofluoromethane	1	nd	nd	nd	< 100	nd	nd
1,1-Dichloroethene	1	180	61	81	480	22	20
Methylene Chloride	1	nd	nd	nd	< 100	nd	nd
Methyl-t-butylether	1	nd	nd	nd	< 100	nd	nd
trans-1,2-Dichloroethene	1	nd	nd	nd	< 100	nd	nd
1,1-Dichloroethane	1	180	51	72	1,400	67	59
cis-1,2-Dichloroethene	1	55	18	24	270	13	10
Chloroform	1	nd	nd	nd	< 100	nd	nd
1,1,1-Trichloroethane	1	210	58	79	140	4.9	4.3
Carbon Tetrachloride	1	nd	nd	nd	< 100	nd	nd
1,2-Dichloroethane	1	nd	nd	nd	< 100	nd	nd
Benzene	1	3.7	nd	nd	< 100	nd	nd
Trichloroethene	1	7.5	2.4	2.6	< 100	nd	nd
Toluene	1	37	nd	nd	< 100	nd	nd
1,1,2-Trichloroethane	1	nd	nd	nd	< 100	nd	nd
Tetrachloroethene	1	12	3.6	3.7	< 100	nd	nd
Ethylbenzene	1	5.5	nd	nd	< 100	nd	nd
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	< 100	nd	nd
m,p-Xylene	1	17	nd	nd	< 100	nd	nd
o-Xylene	1	4.3	nd	nd	< 100	nd	nd
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	< 100	nd	nd
Surrogates	Spiked	QC Limits(% Rec.)		Percent Recovery			
DBFM	50 ng	75-125	89	94	92	89	94	90
1,2-DCA-d4	50 ng	70-130	82	84	85	85	87	84
Toluene - d8	50 ng	75-125	96	95	93	94	94	94
1,4-BFB	50 ng	75-125	94	92	92	87	90	91

Analyses performed by: Mark Lathrop

BEI011402-L2

ANCHEM1566

Report Summary

EPA Method 8260B (5030 Prep.)

Client: Blakely Environmental Investigation
Project: Angeles Chemical

Matrix: vapor
Units: ug/L

Sample Name:		SV41-10	SV41-20
Analysis Date		14 Jan 2002	14 Jan 2002
Analysis Time		5:00 pm	5:52 pm
Dilution Factor:	0.1	0.1	10
Purge Volume:		99 cc	123 cc
Compound	E.Q.L	Amount Found	Amount Found
Freon-113	1	nd	< 100
Dichlorodifluoromethane	1	nd	< 100
Vinyl Chloride	1	nd	< 100
Chloroethane	1	nd	< 100
Trichlorofluoromethane	1	nd	< 100
1,1-Dichloroethene	1	15	710
Methylene Chloride	1	nd	< 100
Methyl-t-butylether	1	nd	< 100
trans-1,2-Dichloroethene	1	nd	< 100
1,1-Dichloroethane	1	50	2,500
cis-1,2-Dichloroethene	1	16	920
Chloroform	1	nd	< 100
1,1,1-Trichloroethane	1	3.1	< 100
Carbon Tetrachloride	1	nd	< 100
1,2-Dichloroethane	1	nd	< 100
Benzene	1	nd	< 100
Trichloroethene	1	nd	< 100
Toluene	1	nd	240
1,1,2-Trichloroethane	1	nd	< 100
Tetrachloroethene	1	nd	< 100
Ethylbenzene	1	nd	< 100
1,1,1,2-Tetrachloroethane	1	nd	< 100
m,p-Xylene	1	nd	220
o-Xylene	1	nd	< 100
1,1,2,2-Tetrachloroethane	1	nd	< 100

Surrogates	Spiked	QC Limits(% Rec.)		Percent Recovery
DBFM	50 ng	75-125	91	88
1,2-DCA-d4	50 ng	70-130	86	82
Toluene - d8	50 ng	75-125	95	100
1,4-BFB	50 ng	75-125	91	93

Analyses performed by: Mark Lathrop

BEI011402-L2

ANCHEM1567

Report Summary

EPA Method 8260B (5030 Prep.)

Client: Blakely Environmental Investigation
Project: Angeles Chemical

Matrix: vapor
Units: ug/L

Sample Name:		SV42-5	SV42-10	SV42-20	SV43-5	SV43-10	SV43-20
Analysis Date		15 Jan 2002	15 Jan 2002	15 Jan 2002	15 Jan 2002	15 Jan 2002	15 Jan 2002
Analysis Time		8:45 am	9:06 am	9:35 am	10:17 am	10:37 am	10:57 am
Dilution Factor:	0.1	0.1	0.1	1	0.1	0.1	1
Purge Volume:		87 cc	99 cc	123 cc	87 cc	99 cc	123 cc
Compound	E.Q.L	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found
Freon-113	1	4.7	1.5	43	nd	nd	21
Dichlorodifluoromethane	1	nd	nd	< 10	nd	nd	< 10
Vinyl Chloride	1	nd	nd	92	nd	nd	57
Chloroethane	1	nd	nd	19	nd	nd	< 10
Trichlorofluoromethane	1	nd	nd	< 10	nd	nd	< 10
1,1-Dichloroethene	1	5.7	2.0	510	1.0	1.1	100
Methylene Chloride	1	nd	nd	< 10	nd	nd	< 10
Methyl-t-butylether	1	nd	nd	< 10	nd	nd	< 10
trans-1,2-Dichloroethene	1	nd	nd	< 10	nd	nd	< 10
1,1-Dichloroethane	1	22	9.2	2,000	12	34	1,000
cis-1,2-Dichloroethene	1	6.7	2.9	990	5.5	30	1,200
Chloroform	1	nd	nd	< 10	nd	nd	< 10
1,1,1-Trichloroethane	1	19	6.1	100	4.2	6.8	280
Carbon Tetrachloride	1	nd	nd	< 10	nd	nd	< 10
1,2-Dichloroethane	1	nd	nd	< 10	nd	nd	< 10
Benzene	1	1.1	nd	< 10	nd	nd	< 10
Trichloroethene	1	3.1	nd	< 10	nd	1.0	< 10
Toluene	1	3.4	nd	1,000	3.7	1.5	940
1,1,2-Trichloroethane	1	nd	nd	< 10	nd	nd	< 10
Tetrachloroethene	1	25	6.6	< 10	nd	2.1	< 10
Ethylbenzene	1	2.3	nd	130	nd	nd	90
1,1,1,2-Tetrachloroethane	1	nd	nd	< 10	nd	nd	< 10
m,p-Xylene	1	6.9	nd	280	1.1	nd	230
o-Xylene	1	1.2	nd	62	nd	nd	54
1,1,2,2-Tetrachloroethane	1	nd	nd	< 10	nd	nd	< 10

Surrogates	Spiked	QC Limits(% Rec.)			Percent Recovery			
DBFM	50 ng	75-125	90	92	88	91	89	83
1,2-DCA-d4	50 ng	70-130	83	81	80	79	78	79
Toluene - d8	50 ng	75-125	97	88	113	96	95	112
1,4-BFB	50 ng	75-125	91	76	90	88	86	90

Analyses performed by: Mark Lathrop

BEI011402-L2

ANCHEM1568

Report Summary

EPA Method 8260B (5030 Prep.)

Client: Blakely Environmental Investigation
Project: Angeles Chemical

Matrix: vapor
Units: ug/L

Sample Name:		SV45-8	SV45-20	SV46-8	SV46-20	SV47-8	SV47-20
Analysis Date		15 Jan 2002	15 Jan 2002	15 Jan 2002	15 Jan 2002	15 Jan 2002	15 Jan 2002
Analysis Time		11:30 am	12:18 pm	12:38 pm	1:17 pm	1:38 pm	2:00 pm
Dilution Factor:	0.1	0.1	0.1	0.1	1	0.1	1
Purge Volume:		87 cc	123 cc	87 cc	123 cc	87 cc	123 cc
Compound	E.Q.L	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found
Freon-113	1	nd	nd	nd	< 10	nd	16
Dichlorodifluoromethane	1	nd	nd	nd	< 10	nd	< 10
Vinyl Chloride	1	nd	nd	nd	200	nd	39
Chloroethane	1	nd	nd	nd	< 10	nd	< 10
Trichlorofluoromethane	1	nd	nd	nd	< 10	nd	< 10
1,1-Dichloroethene	1	nd	1.6	nd	72	nd	82
Methylene Chloride	1	nd	nd	nd	< 10	nd	< 10
Methyl-t-butylether	1	nd	nd	nd	< 10	nd	< 10
trans-1,2-Dichloroethene	1	nd	nd	nd	< 10	nd	< 10
1,1-Dichloroethane	1	5.4	20	3.3	590	6.5	850
cis-1,2-Dichloroethene	1	2.5	22	2.3	810	4.5	1,000
Chloroform	1	nd	nd	nd	< 10	nd	< 10
1,1,1-Trichloroethane	1	2.6	2.8	nd	50	1.4	330
Carbon Tetrachloride	1	nd	nd	nd	< 10	nd	< 10
1,2-Dichloroethane	1	nd	nd	nd	< 10	nd	< 10
Benzene	1	nd	nd	nd	< 10	nd	< 10
Trichloroethene	1	nd	6.3	nd	< 10	nd	< 10
Toluene	1	1.2	nd	nd	490	1.4	1,100
1,1,2-Trichloroethane	1	nd	nd	nd	< 10	nd	< 10
Tetrachloroethene	1	nd	2.4	nd	< 10	nd	< 10
Ethylbenzene	1	nd	nd	nd	95	nd	110
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	< 10	nd	< 10
m,p-Xylene	1	nd	nd	nd	290	nd	310
o-Xylene	1	nd	nd	nd	54	nd	74
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	< 10	nd	< 10

Surrogates	Spiked	QC Limits(% Rec.)			Percent Recovery			
DBFM	50 ng	75-125	87	92	93	88	89	89
1,2-DCA-d4	50 ng	70-130	76	81	81	79	79	86
Toluene - d8	50 ng	75-125	96	96	95	110	94	112
1,4-BFB	50 ng	75-125	86	90	89	95	87	95

Analyses performed by: Mark Lathrop

BEI011402-L2

ANCHEM1569

Report Summary

EPA Method 8260B (5030 Prep.)

Client: Blakely Environmental Investigation
Project: Angeles Chemical

Matrix: vapor
Units: ug/L

Sample Name:		SV48-8	SV48-20	SV49-8	SV49-20	SV50-8	SV50-8 Dup
Analysis Date		15 Jan 2002	15 Jan 2002	15 Jan 2002	15 Jan 2002	15 Jan 2002	15 Jan 2002
Analysis Time		2:20 pm	2:42 pm	3:05 pm	3:27 pm	3:48 pm	4:10 pm
Dilution Factor:	0.1	0.1	1	0.1	1	0.1	0.1
Purge Volume:		87 cc	123 cc	87 cc	123 cc	87 cc	87cc
Compound	E.Q.L	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found
Freon-113	1	nd	18	nd	36	1.8	1.7
Dichlorodifluoromethane	1	nd	< 10	nd	< 10	nd	nd
Vinyl Chloride	1	1.7	26	nd	41	nd	nd
Chloroethane	1	nd	< 10	nd	21	nd	nd
Trichlorofluoromethane	1	nd	< 10	nd	< 10	nd	nd
1,1-Dichloroethene	1	4.3	240	5.7	700	19	18
Methylene Chloride	1	nd	< 10	nd	< 10	nd	nd
Methyl-t-butylether	1	nd	< 10	nd	< 10	nd	nd
trans-1,2-Dichloroethene	1	nd	< 10	nd	< 10	nd	nd
1,1-Dichloroethane	1	63	1,300	48	1,600	58	55
cis-1,2-Dichloroethene	1	55	730	22	710	19	17
Chloroform	1	nd	< 10	nd	< 10	nd	nd
1,1,1-Trichloroethane	1	25	92	6.9	67	3.6	3.3
Carbon Tetrachloride	1	nd	< 10	nd	< 10	nd	nd
1,2-Dichloroethane	1	nd	< 10	nd	< 10	nd	nd
Benzene	1	nd	< 10	nd	< 10	nd	nd
Trichloroethene	1	nd	< 10	nd	< 10	nd	nd
Toluene	1	83	760	19	600	12	7.8
1,1,2-Trichloroethane	1	nd	< 10	nd	< 10	nd	nd
Tetrachloroethene	1	nd	< 10	1.7	< 10	nd	nd
Ethylbenzene	1	11	92	3.1	170	2.2	1.2
1,1,1,2-Tetrachloroethane	1	nd	< 10	nd	< 10	nd	nd
m,p-Xylene	1	30	220	10	360	6.4	3.3
o-Xylene	1	8	53	2.7	92	1.6	nd
1,1,2,2-Tetrachloroethane	1	nd	< 10	nd	< 10	nd	nd

Surrogates	Spiked	QC Limits(% Rec.)			Percent Recovery			
DBFM	50 ng	75-125	88	90	89	89	91	90
1,2-DCA-d4	50 ng	70-130	82	85	81	82	81	81
Toluene - d8	50 ng	75-125	111	107	99	112	101	100
1,4-BFB	50 ng	75-125	94	94	91	97	92	93

Analyses performed by: Mark Lathrop

BEI011402-L2

ANCHEM1570

Report Summary

EPA Method 8260B (5030 Prep.)

Client: Blakely Environmental Investigation
Project: Angeles Chemical

Matrix: vapor
Units: ug/L

Sample Name:		SV50-20
Analysis Date		15 Jan 2002
Analysis Time		5:55 pm
Dilution Factor:	0.1	0.1
Purge Volume:		123 cc
Compound	E.Q.L	Amount Found
Freon-113	1	18
Dichlorodifluoromethane	1	nd
Vinyl Chloride	1	6.3
Chloroethane	1	nd
Trichlorofluoromethane	1	nd
1,1-Dichloroethene	1	130
Methylene Chloride	1	nd
Methyl-t-butylether	1	nd
trans-1,2-Dichloroethene	1	nd
1,1-Dichloroethane	1	150
cis-1,2-Dichloroethene	1	35
Chloroform	1	nd
1,1,1-Trichloroethane	1	140
Carbon Tetrachloride	1	nd
1,2-Dichloroethane	1	nd
Benzene	1	nd
Trichloroethene	1	1.6
Toluene	1	1.6
1,1,2-Trichloroethane	1	nd
Tetrachloroethene	1	1.5
Ethylbenzene	1	nd
1,1,1,2-Tetrachloroethane	1	nd
m,p-Xylene	1	nd
o-Xylene	1	nd
1,1,2,2-Tetrachloroethane	1	nd

Surrogates	Spiked	QC Limits(% Rec.)	Percent Recovery
DBFM	50 ng	75-125	90
1,2-DCA-d4	50 ng	70-130	89
Toluene - d8	50 ng	75-125	96
1,4-BFB	50 ng	75-125	95

Analyses performed by: Mark Lathrop

BEI011402-L2

ANCHEM1571

Report Summary

EPA Method 8260B (5030 Prep.)

Client: Blakely Environmental Investigation
Project: Angeles Chemical

Matrix: vapor
Units: ug/L

Sample Name:		SV51-8	SV51-20	SV52-8	SV52-20	SV53-8	SV53-20
Analysis Date		16 Jan 2002	16 Jan 2002	16 Jan 2002	16 Jan 2002	16 Jan 2002	16 Jan 2002
Analysis Time		8:46 am	9:31 am	9:53 am	10:13 am	10:35 am	11:46 am
Dilution Factor:	0.1	0.1	0.1	0.1	1	0.1	0.1
Purge Volume:		87 cc	123 cc	87 cc	123 cc	87 cc	87 cc
Compound	E.Q.L	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found
Freon-113	1	nd	11	nd	18	nd	nd
Dichlorodifluoromethane	1	nd	nd	nd	< 10	nd	nd
Vinyl Chloride	1	nd	6.8	nd	28	1.9	nd
Chloroethane	1	nd	nd	nd	< 10	nd	nd
Trichlorofluoromethane	1	nd	nd	nd	< 10	nd	nd
1,1-Dichloroethene	1	1.1	210	2.8	900	3.8	6.9
Methylene Chloride	1	nd	nd	nd	< 10	nd	nd
Methyl-t-butylether	1	nd	nd	nd	< 10	nd	nd
trans-1,2-Dichloroethene	1	nd	nd	nd	< 10	nd	nd
1,1-Dichloroethane	1	3.9	190	6.6	920	7.2	3.7
cis-1,2-Dichloroethene	1	1.1	66	1.6	790	5.9	3.2
Chloroform	1	nd	nd	nd	< 10	nd	nd
1,1,1-Trichloroethane	1	nd	250	3.3	2,100	5.3	2.2
Carbon Tetrachloride	1	nd	nd	nd	< 10	nd	nd
1,2-Dichloroethane	1	nd	nd	nd	< 10	nd	nd
Benzene	1	nd	nd	nd	< 10	nd	nd
Trichloroethene	1	nd	nd	nd	< 10	nd	nd
Toluene	1	1.3	nd	nd	38	nd	nd
1,1,2-Trichloroethane	1	nd	nd	nd	< 10	nd	nd
Tetrachloroethene	1	nd	nd	nd	< 10	nd	nd
Ethylbenzene	1	nd	nd	nd	21	nd	nd
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	< 10	nd	nd
m,p-Xylene	1	nd	nd	nd	37	nd	nd
o-Xylene	1	nd	nd	nd	14	nd	nd
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	< 10	nd	nd

Surrogates	Spiked	QC Limits(% Rec.)			Percent Recovery			
DBFM	50 ng	75-125	87	91	90	90	90	93
1,2-DCA-d4	50 ng	70-130	81	84	82	83	83	86
Toluene - d8	50 ng	75-125	95	94	94	102	97	96
1,4-BFB	50 ng	75-125	91	92	90	95	90	91

Analyses performed by: Mark Lathrop

BEI011402-L2

ANCHEM1572

Report Summary

EPA Method 8260B (5030 Prep.)

Client: Blakely Environmental Investigation
Project: Angeles Chemical

Matrix: vapor
Units: ug/L

Sample Name:		SV54-8	SV54-20	SV55-8	SV55-20	SV56-8	SV56-20
Analysis Date		16 Jan 2002	16 Jan 2002	16 Jan 2002	16 Jan 2002	16 Jan 2002	16 Jan 2002
Analysis Time		12:08 pm	12:30 pm	12:58 pm	2:31 pm	2:53 pm	3:15 pm
Dilution Factor:	0.1	0.1	1	0.1	0.1	0.1	1
Purge Volume:		87 cc	123 cc	87 cc	123 cc	87 cc	123 cc
Compound	E.Q.L	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found
Freon-113	1	nd	16	1.8	6.3	2.1	18
Dichlorodifluoromethane	1	nd	< 10	nd	nd	nd	< 10
Vinyl Chloride	1	nd	39	nd	nd	nd	< 10
Chloroethane	1	nd	< 10	nd	nd	nd	< 10
Trichlorofluoromethane	1	nd	< 10	nd	nd	nd	< 10
1,1-Dichloroethene	1	5.5	800	48	180	71	590
Methylene Chloride	1	nd	< 10	nd	nd	nd	< 10
Methyl-t-butylether	1	nd	< 10	nd	nd	nd	< 10
trans-1,2-Dichloroethene	1	nd	< 10	nd	nd	nd	< 10
1,1-Dichloroethane	1	1.7	330	4.9	30	9.3	120
cis-1,2-Dichloroethene	1	2.9	780	7.5	54	22	330
Chloroform	1	nd	< 10	nd	nd	nd	< 10
1,1,1-Trichloroethane	1	1.6	1,400	57	250	96	990
Carbon Tetrachloride	1	nd	< 10	nd	nd	nd	< 10
1,2-Dichloroethane	1	nd	< 10	nd	nd	nd	< 10
Benzene	1	nd	< 10	nd	nd	nd	< 10
Trichloroethene	1	nd	< 10	nd	1.6	nd	< 10
Toluene	1	nd	< 10	nd	nd	nd	< 10
1,1,2-Trichloroethane	1	nd	< 10	nd	nd	nd	< 10
Tetrachloroethene	1	nd	< 10	1.8	2.3	2.4	< 10
Ethylbenzene	1	nd	< 10	nd	nd	nd	< 10
1,1,1,2-Tetrachloroethane	1	nd	< 10	nd	nd	nd	< 10
m,p-Xylene	1	nd	< 10	nd	nd	nd	< 10
o-Xylene	1	nd	< 10	nd	nd	nd	< 10
1,1,2,2-Tetrachloroethane	1	nd	< 10	nd	nd	nd	< 10

Surrogates	Spiked	QC Limits(% Rec.)			Percent Recovery			
DBFM	50 ng	75-125	93	92	90	92	92	92
1,2-DCA-d4	50 ng	70-130	81	84	78	80	82	83
Toluene - d8	50 ng	75-125	95	98	87	95	100	94
1,4-BFB	50 ng	75-125	92	92	84	91	95	94

Analyses performed by: Mark Lathrop

BEI011402-L2

ANCHEM1573

Report Summary

EPA Method 8260B (5030 Prep.)

Client: Blakely Environmental Investigation
Project: Angeles Chemical

Matrix: vapor
Units: ug/L

Sample Name:		SV57-8	SV57-20	SV58-8	SV58-20
Analysis Date		16 Jan 2002	16 Jan 2002	16 Jan 2002	16 Jan 2002
Analysis Time		3:37 pm	3:58 pm	4:31 pm	5:01 pm
Dilution Factor:	0.1	0.1	1	0.1	1
Purge Volume:		87 cc	123 cc	87 cc	123 cc
Compound	E.Q.L	Amount Found	Amount Found	Amount Found	Amount Found
Freon-113	1	1.3	18	4.7	< 10
Dichlorodifluoromethane	1	nd	< 10	nd	< 10
Vinyl Chloride	1	nd	< 10	nd	< 10
Chloroethane	1	nd	< 10	nd	< 10
Trichlorofluoromethane	1	nd	< 10	nd	< 10
1,1-Dichloroethene	1	48	500	6.0	210
Methylene Chloride	1	nd	< 10	nd	< 10
Methyl-t-butylether	1	nd	< 10	nd	< 10
trans-1,2-Dichloroethene	1	nd	< 10	nd	< 10
1,1-Dichloroethane	1	5.6	79	1.3	34
cis-1,2-Dichloroethene	1	23	460	8.0	220
Chloroform	1	nd	< 10	nd	< 10
1,1,1-Trichloroethane	1	61	800	13	370
Carbon Tetrachloride	1	nd	< 10	nd	< 10
1,2-Dichloroethane	1	nd	< 10	nd	< 10
Benzene	1	nd	< 10	nd	< 10
Trichloroethene	1	nd	< 10	nd	< 10
Toluene	1	nd	< 10	nd	< 10
1,1,2-Trichloroethane	1	nd	< 10	nd	< 10
Tetrachloroethene	1	3.4	< 10	nd	< 10
Ethylbenzene	1	nd	< 10	nd	< 10
1,1,1,2-Tetrachloroethane	1	nd	< 10	nd	< 10
m,p-Xylene	1	nd	< 10	nd	< 10
o-Xylene	1	nd	< 10	nd	< 10
1,1,2,2-Tetrachloroethane	1	nd	< 10	nd	< 10

Surrogates	Spiked	QC Limits(% Rec.)			Percent Recovery	
DBFM	50 ng	75-125	93	104	92	90
1,2-DCA-d4	50 ng	70-130	80	93	79	83
Toluene - d8	50 ng	75-125	94	98	103	93
1,4-BFB	50 ng	75-125	100	100	100	96

Analyses performed by: Mark Lathrop

BEI011402-L2

ANCHEM1574

Report Summary

EPA Method 8260B (5030 Prep.)

Client: Blakely Environmental Investigation
Project: Angeles Chemical

Matrix: vapor
Units: ug/L

Sample Name:		SV44-5	SV44-10	SV44-20	SV59-8	SV59-20	SV60-8
Analysis Date		17 Jan 2002	17 Jan 2002	17 Jan 2002	17 Jan 2002	17 Jan 2002	17 Jan 2002
Analysis Time		10:44 am	11:06 am	12:20 pm	8:58 am	9:19 am	9:40 am
Dilution Factor:	0.1	0.1	0.1	0.1	0.1	1	0.1
Purge Volume:		87 cc	99 cc	123 cc	87 cc	123 cc	87 cc
Compound	E.Q.L	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found
Freon-113	1	nd	nd	nd	nd	nd	nd
Dichlorodifluoromethane	1	nd	nd	nd	nd	< 10	nd
Vinyl Chloride	1	nd	nd	nd	nd	< 10	nd
Chloroethane	1	nd	nd	nd	nd	< 10	nd
Trichlorofluoromethane	1	nd	nd	nd	nd	< 10	nd
1,1-Dichloroethene	1	16	13	nd	1.7	67	22
Methylene Chloride	1	nd	nd	nd	26	34	44
Methyl-t-butylether	1	nd	nd	nd	nd	< 10	nd
trans-1,2-Dichloroethene	1	nd	nd	nd	nd	< 10	nd
1,1-Dichloroethane	1	17	6.4	5.5	9.8	58	55
cis-1,2-Dichloroethene	1	37	27	6.5	96	610	120
Chloroform	1	nd	nd	nd	nd	< 10	nd
1,1,1-Trichloroethane	1	51	32	3.2	13	880	250
Carbon Tetrachloride	1	nd	nd	nd	nd	< 10	nd
1,2-Dichloroethane	1	nd	nd	nd	nd	< 10	nd
Benzene	1	nd	nd	nd	nd	< 10	nd
Trichloroethene	1	2.0	nd	nd	1.6	< 10	4.0
Toluene	1	1.0	nd	nd	3.6	91	15
1,1,2-Trichloroethane	1	nd	nd	nd	nd	< 10	nd
Tetrachloroethene	1	3.7	nd	nd	nd	< 10	5.1
Ethylbenzene	1	nd	nd	nd	nd	10	1.5
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd	< 10	nd
m,p-Xylene	1	nd	nd	nd	nd	26	3.7
o-Xylene	1	nd	nd	nd	nd	< 10	1.0
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd	< 10	nd

Surrogates	Spiked	QC Limits(% Rec.)			Percent Recovery			
DBFM	50 ng	75-125	90	90	89	92	94	89
1,2-DCA-d4	50 ng	70-130	84	84	94	78	81	81
Toluene - d8	50 ng	75-125	97	95	93	94	100	105
1,4-BFB	50 ng	75-125	82	91	91	88	91	99

Analyses performed by: Mark Lathrop

BEI011402-L2

ANCHEM1575

Report Summary

EPA Method 8260B (5030 Prep.)

Client: Blakely Environmental Investigation
Project: Angeles Chemical

Matrix: vapor
Units: ug/L

Sample Name:		**SV60-20**
Analysis Date		17 Jan 2002
Analysis Time		10:01 am
Dilution Factor:	0.1	1
Purge Volume:		123 cc

Compound	E.Q.L	Amount Found	
Freon-113	1	<	10
Dichlorodifluoromethane	1	<	10
Vinyl Chloride	1		16
Chloroethane	1	<	10
Trichlorofluoromethane	1	<	10
1,1-Dichloroethene	1		300
Methylene Chloride	1	<	10
Methyl-t-butylether	1	<	10
trans-1,2-Dichloroethene	1	<	10
1,1-Dichloroethane	1		140
cis-1,2-Dichloroethene	1		800
Chloroform	1	<	10
1,1,1-Trichloroethane	1		890
Carbon Tetrachloride	1	<	10
1,2-Dichloroethane	1	<	10
Benzene	1	<	10
Trichloroethene	1	<	10
Toluene	1		16
1,1,2-Trichloroethane	1	<	10
Tetrachloroethene	1	<	10
Ethylbenzene	1	<	10
1,1,1,2-Tetrachloroethane	1	<	10
m,p-Xylene	1	<	10
o-Xylene	1	<	10
1,1,2,2-Tetrachloroethane	1	<	10

Surrogates	Spiked	QC Limits(% Rec.)	Percent Recovery
DBFM	50 ng	75-125	92
1,2-DCA-d4	50 ng	70-130	84
Toluene - d8	50 ng	75-125	100
1,4-BFB	50 ng	75-125	94

Analyses performed by: Mark Lathrop

BEI011402-L2

ANCHEM1576

Report Summary

EPA Method 8260B (5030 Prep.)

Client: Blakely Environmental Investigation
Project: Angeles Chemical

Matrix: vapor
Units: ug/L

Sample Name:		Method Blank	Method Blank	Method Blank	Method Blank
Analysis Date		14 Jan 2002	15 Jan 2002	16 Jan 2002	17 Jan 2002
Analysis Time		7:10 am	8:12 am	7:47 am	7:58 am
Dilution Factor:	0.1	0.1	0.1	0.1	0.1

Compound	E.Q.L	Amount Found	Amount Found	Amount Found	Amount Found
Freon-113	1	nd	nd	nd	nd
Dichlorodifluoromethane	1	nd	nd	nd	nd
Vinyl Chloride	1	nd	nd	nd	nd
Chloroethane	1	nd	nd	nd	nd
Trichlorofluoromethane	1	nd	nd	nd	nd
1,1-Dichloroethene	1	nd	nd	nd	nd
Methylene Chloride	1	nd	nd	nd	nd
Methyl-t-butylether	1	nd	nd	nd	nd
trans-1,2-Dichloroethene	1	nd	nd	nd	nd
1,1-Dichloroethane	1	nd	nd	nd	nd
cis-1,2-Dichloroethene	1	nd	nd	nd	nd
Chloroform	1	nd	nd	nd	nd
1,1,1-Trichloroethane	1	nd	nd	nd	nd
Carbon Tetrachloride	1	nd	nd	nd	nd
1,2-Dichloroethane	1	nd	nd	nd	nd
Benzene	1	nd	nd	nd	nd
Trichloroethene	1	nd	nd	nd	nd
Toluene	1	nd	nd	nd	nd
1,1,2-Trichloroethane	1	nd	nd	nd	nd
Tetrachloroethene	1	nd	nd	nd	nd
Ethylbenzene	1	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	1	nd	nd	nd	nd
m,p-Xylene	1	nd	nd	nd	nd
o-Xylene	1	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	1	nd	nd	nd	nd

Surrogates	Spiked	QC Limits(% Rec.)			Percent Recovery	
DBFM	50 ng	75-125	91	90	92	91
1,2-DCA-d4	50 ng	70-130	85	90	90	86
Toluene - d8	50 ng	75-125	94	90	97	92
1,4-BFB	50 ng	75-125	91	89	93	91

Analyses performed by: Mark Lathrop

BEI011402-L2

ANCHEM1577

Report Summary

Client: Blakely Environmental Investigation
Project: Angeles Chemical

Matrix: vapor
Units: ug/L

Method =	8260B	8260B
Analyte =	Isopropyl Alcohol	Isopropyl Alcohol
Detection Limit -	350	350

SAMPLE I.D.

Date Analyzed: 1/14/01		Date Analyzed: 1/15/02	
SV37-8	nd*	SV42-5	nd
SV37-20	nd*	SV42-10	nd
SV38-8 29 cc purge	nd*	SV42-20	nd
SV38-8 87 cc purge	nd	SV43-5	nd
SV38-8 135 cc purge	nd	SV43-10	nd
SV38-21	nd	SV43-20	nd
SV39-5	nd	SV45-8	nd
SV39-10	nd	SV45-20	nd
SV39-20	nd	SV46-8	nd
SV40-5	nd	SV46-20	nd
SV40-10	nd	SV47-8	nd
SV40-20	nd	SV47-20	nd
SV41-5	nd	SV48-8	nd
SV41-5 Dup	nd	SV48-20	nd
SV41-10	nd	SV49-8	nd
SV41-20	nd	SV49-20	nd
		SV50-8	nd
		SV50-8 Dup	nd
		SV50-20	nd

* Note that these three samples were analyzed for the presence of IPA prior to the analysis of an IPA standard, They should be considered a screening.

Footnotes: See Footnote Summary page.
Analyses performed by: Mark Lathrop
BEI011402-L2

ANCHEM1578

Report Summary

Client: Blakely Environmental Investigation
Project: Angeles Chemical

Matrix: vapor
Units: ug/L

Method =	8260B	8260B
Analyte =	Isopropyl Alcohol	Isopropyl Alcohol
Detection Limit -	350	350
SAMPLE I.D.		
Date Analyzed:	1/16/02	
		Date Analyzed: 1/17/01
SV51-8	nd	
SV51-20	nd	SV44-5 nd
SV52-8	nd	SV44-10 nd
SV52-20	nd	SV44-20 nd
SV53-8	nd	SV59-8 nd
SV53-20	nd	SV59-20 nd
SV54-8	nd	SV60-8 nd
SV54-20	nd	SV60-20 nd
SV55-8	nd	
SV55-20	nd	
SV56-8	nd	
SV56-20	nd	
SV57-8	nd	
SV57-20	nd	
SV58-8	nd	
SV58-20	nd	

Footnotes: See Footnote Summary page.
Analyses performed by: Mark Lathrop
BEI011402-L2

ANCHEM1579

Calibration Verification

EPA Method 8260B

Client: Blakely Environmental Investigation
Project: Angeles Chemical

Matrix: vapor
Units: ug/L

Sample Name: **Daily Calibration Verification**
Analysis Date 14 Jan 2002
Analysis Time 6:29 am
Dilution Factor: 1

Compound		Amount Found	Percent Diff	VOC's (-15 to +15%) Pass	VOC gases (-25 to +25%) Pass
Freon-113		48	-5		yes
Dichlorodifluoromethane		44	-12		yes
Vinyl Chloride		51	1		yes
Chloroethane		47	-7		yes
Trichlorofluoromethane		46	-7		yes
1,1-Dichloroethene	#	50	1	yes	
Methylene Chloride		48	-3	yes	
Methyl-t-butylether		41	-18	no	
trans-1,2-Dichloroethene	#	54	7	yes	
1,1-Dichloroethane	#	56	11	yes	
cis-1,2-Dichloroethene	#	53	6	yes	
Chloroform		55	9	yes	
1,1,1-Trichloroethane	#	53	5	yes	
Carbon Tetrachloride		53	5	yes	
1,2-Dichloroethane	#	52	3	yes	
Benzene	#	52	4	yes	
Trichloroethene	#	53	7	yes	
Toluene	#	55	9	yes	
1,1,2-Trichloroethane	#	45	-10	yes	
Tetrachloroethene	#	50	0	yes	
Ethylbenzene		51	2	yes	
1,1,1,2-Tetrachloroethane		47	-7	yes	
m,p-Xylene	#	102	2	yes	
o-Xylene	#	49	-2	yes	
1,1,2,2-Tetrachloroethane		44	-12	yes	

Surrogates	Spiked	QC Limits(% Rec.)	
DBFM	50 ng	75-125	90
1,2-DCA-d4	50 ng	70-130	88
Toluene - d8	50 ng	75-125	96
1,4-BFB	50 ng	75-125	92

BEI011402-L2

ANCHEM1580

Calibration Verification

EPA Method 8260B

Client: Blakely Environmental Investigation
Project: Angeles Chemical

Matrix: vapor
Units: ug/L

Sample Name: **Daily Calibration Verification**
Analysis Date 15 Jan 2002
Analysis Time 5:57 am
Dilution Factor: 1

Compound		Amount Found	Percent Diff	VOC's (-15 to +15%) Pass	VOC gases (-25 to +25%) Pass
Freon-113		47	-7		yes
Dichlorodifluoromethane		38	-24		yes
Vinyl Chloride		48	-4		yes
Chloroethane		43	-14		yes
Trichlorofluoromethane		46	-9		yes
1,1-Dichloroethene	#	51	1	yes	
Methylene Chloride		52	4	yes	
Methyl-t-butylether		55	11	yes	
trans-1,2-Dichloroethene	#	54	8	yes	
1,1-Dichloroethane	#	55	11	yes	
cis-1,2-Dichloroethene	#	54	7	yes	
Chloroform		53	6	yes	
1,1,1-Trichloroethane	#	51	2	yes	
Carbon Tetrachloride		50	0	yes	
1,2-Dichloroethane	#	52	5	yes	
Benzene	#	54	7	yes	
Trichloroethene	#	53	6	yes	
Toluene	#	55	10	yes	
1,1,2-Trichloroethane	#	52	3	yes	
Tetrachloroethene	#	48	-5	yes	
Ethylbenzene		49	-2	yes	
1,1,1,2-Tetrachloroethane		47	-6	yes	
m,p-Xylene	#	98	-2	yes	
o-Xylene	#	48	-4	yes	
1,1,2,2-Tetrachloroethane		55	9	yes	

Surrogates	Spiked	QC Limits(% Rec.)		
DBFM	50 ng	75-125	92	
1,2-DCA-d4	50 ng	70-130	93	
Toluene - d8	50 ng	75-125	100	
1,4-BFB	50 ng	75-125	97	

BEI011402-L2

ANCHEM1581

Calibration Verification

EPA Method 8260B

Client: Blakely Environmental Investigation
Project: Angeles Chemical

Matrix: vapor
Units: ug/L

Sample Name: **Daily Calibration Verification**
Analysis Date 16 Jan 2002
Analysis Time 6:41 am
Dilution Factor: 1

Compound		Amount Found	Percent Diff	VOC's (-15 to +15%) Pass	VOC gases (-25 to +25%) Pass
Freon-113		44	-13		yes
Dichlorodifluoromethane		40	-20		yes
Vinyl Chloride		50	0		yes
Chloroethane		46	-8		yes
Trichlorofluoromethane		50	0		yes
1,1-Dichloroethene	#	50	0	yes	
Methylene Chloride		48	-5	yes	
Methyl-t-butylether		49	-3	yes	
trans-1,2-Dichloroethene	#	54	9	yes	
1,1-Dichloroethane	#	55	10	yes	
cis-1,2-Dichloroethene	#	57	14	yes	
Chloroform		53	5	yes	
1,1,1-Trichloroethane	#	53	5	yes	
Carbon Tetrachloride		52	5	yes	
1,2-Dichloroethane	#	49	-1	yes	
Benzene	#	52	4	yes	
Trichloroethene	#	57	14	yes	
Toluene	#	55	10	yes	
1,1,2-Trichloroethane	#	48	-4	yes	
Tetrachloroethene	#	51	2	yes	
Ethylbenzene		49	-2	yes	
1,1,1,2-Tetrachloroethane		49	-1	yes	
m,p-Xylene	#	100	0	yes	
o-Xylene	#	49	-3	yes	
1,1,2,2-Tetrachloroethane		51	2	yes	

Surrogates	Spiked	QC Limits(% Rec.)	
DBFM	50 ng	75-125	86
1,2-DCA-d4	50 ng	70-130	85
Toluene - d8	50 ng	75-125	101
1,4-BFB	50 ng	75-125	102

BEI011402-L2

ANCHEM1582

Calibration Verification

EPA Method 8260B

Client: Blakely Environmental Investigation
Project: Angeles Chemical

Matrix: vapor
Units: ug/L

Sample Name: **Daily Calibration Verification**
Analysis Date 17 Jan 2002
Analysis Time 6:50 am
Dilution Factor: 1

Compound		Amount Found	Percent Diff	VOC's (-15 to +15%) Pass	VOC gases (-25 to +25%) Pass
Freon-113		44	-13		yes
Dichlorodifluoromethane		42	-17		yes
Vinyl Chloride		46	-7		yes
Chloroethane		45	-11		yes
Trichlorofluoromethane		43	-14		yes
1,1-Dichloroethene	#	47	-7	yes	
Methylene Chloride		46	-9	yes	
Methyl-t-butylether		43	-13	yes	
trans-1,2-Dichloroethene	#	48	-4	yes	
1,1-Dichloroethane	#	51	3	yes	
cis-1,2-Dichloroethene	#	49	-3	yes	
Chloroform		51	2	yes	
1,1,1-Trichloroethane	#	49	-2	yes	
Carbon Tetrachloride		49	-2	yes	
1,2-Dichloroethane	#	51	1	yes	
Benzene	#	49	-3	yes	
Trichloroethene	#	49	-1	yes	
Toluene	#	51	3	yes	
1,1,2-Trichloroethane	#	45	-11	yes	
Tetrachloroethene	#	45	-10	yes	
Ethylbenzene		47	-6	yes	
1,1,1,2-Tetrachloroethane		44	-12	yes	
m,p-Xylene	#	95	-5	yes	
o-Xylene	#	46	-9	yes	
1,1,2,2-Tetrachloroethane		48	-4	yes	

Surrogates	Spiked	QC Limits(% Rec.)	
DBFM	50 ng	75-125	93
1,2-DCA-d4	50 ng	70-130	93
Toluene - d8	50 ng	75-125	94
1,4-BFB	50 ng	75-125	91

BEI011402-L2

ANCHEM1583

Footnote Summary

Footnote	Definition
E.Q.L.	Estimated Quantitation Limit
nd	Not detected above the E.Q.L. or detection limit.
J	The concentration reported is between the Method Detection Limit and the E.Q.L.
D	Concentration reported from a secondary dilution; E.Q.L.s adjusted accordingly.
B	Analyte found in the associated blank.
E	Analyte amount exceeds calibration range. Amount quantitated by extrapolation.
***	MS/MSD, LCS/LCSD recovery is outside QC range; no corrective action taken.
M	Surrogate recovery outside QC range due to matrix interference.
S	Because of necessary sample dilution, value was outside QC limits.
&	Gasoline range organics not identified as gasoline.
#	Diesel range organics not identified as diesel.
**	This compound has been screened by EPA method 8020. Any positive results should be confirmed by a second analysis.

ANCHEM1584

Chain of Custody Record

HP LABS

☐ 148 S. Vinewood St., Escondido, CA 92029 • ph 760.735.3208 • fax 760.735.2469
☑ 432 N. Cedros Ave., Solana Beach, CA 92075 • ph 858.793.0401 • fax 858.793.0404
☐ 2373 208th Street Unit F-1, Torrance, CA 90501 • ph 310.782.2929 • fax 310.782.2798

Date: 01/14/02
HPL Project # BE1011402-L2
Outside Lab: N/A

Client: BLAKELY ENVIRONMENTAL INVESTIGATION
Address: 9605 ARROW ROUTE, SUITE T
RANCHO CUCAMONGA, CA 91730
Phone: 909/989-9550 Fax: 760/249-1016

Collector:
Page: 1 Of
Client Project # ANGELES CHEMICAL Project Manager HIRAM GARCIA
Location: 8915 SORRENSEN AVE, SANTA FE SPRING
Turn around time: ON SITE

ANCHEM1585

Notes:

Sample	Depth	Time	Date	Sample Type	Container Type	TPH gasoline / diesel	TPH extended	8021 for BTEX/MTBE	8021 for Halogenated compounds	418.1 TRPH	8260B: BTEX / Oxygenates	8260B: Oxygenates	8260B: VOCs	8260B: VOCs and Oxygenates	Methane	Fixed Gases	Field Notes	Total # of containers
SV37-8	8'	0858	01/14/02	VAPOR	SYRINGE								X				Purge Vol 87cc	1
SV37-20	20	0913											X				" 120cc	1
SV38-8	8'	1017											X				Purge Vol 29cc	1
SV38-8	8'	1025											X				87cc	1
SV38-8	8'	1026											X				135cc	1
SV38-21	21'	1155											X				123cc	1
SV39-5	5'	1220											X				87cc	1
SV39-10	10'	1248											X				99cc	1
SV39-20	20'	1330											X				123	1
SV40-5	5'	1353											X				87	1
SV40-10	10	1434											X				99cc	1
SV40-20	20	1442											X				123cc	1
SV41-5	5	~~1500~~											X				87cc	1
SV41-10	10	1558											X				99cc	1
SV41-20	20	1608											X				123cc	1

Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
Hiram Garcia		Mark Lathye	HP Labs	01/14/02	1615

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal @ $2.00 each ☐ Return to client ☐ Pickup

Chain of Custody Record

HP LABS

☐ 148 S. Vinewood St., Escondido, CA 92029 • ph 760.735.3208 • fax 760.735.2469
☑ 432 N. Cedros Ave., Solana Beach, CA 92075 • ph 858.793.0401 • fax 858.793.0404
☐ 2373 208th Street Unit F-1, Torrance, CA 90501 • ph 310.782.2929 • fax 310.782.2798

Date: 01/15/02
HPL Project # BE1011402-L2
Outside Lab:

Client: BLAKELY ENVIRONMENTAL INVESTIGATION
Address: 9605 ARROW ROUTE, SUITE T
RANCHO CUCAMONGA, CA 91730
Phone: 909/989-9550 Fax: 760/249-1016

Collector:
Page: 1 Of 2
Client Project # ANGELES CHEMICAL Project Manager HIRAM GARCIA
Location: 8915 SORENSEN AVE, SANTA FE SPRINGS
Turn around time: ON SITE

ANCHEM1586

Sample	Depth	Time	Date	Sample Type	Container Type	TPH gasoline / diesel	TPH extended	8021 for BTEX/MTBE	8021 for Halogenated compounds	418.1 TRPH	8260B: BTEX / Oxygenates	8260B: Oxygenates	8260B: VOCs	8260B: VOCs and Oxygenates	Methane	Fixed Gases	Field Notes	Total # of containers
SV42-5	5'	0823	01/15/02	VAPOR	SYRINGE								X				Purge Volume 87cc	1
SV42-10	10'	0830											X				99cc	1
SV42-20	20'	0912											X				123cc	1
SV43-5	5	0955											X				87cc	1
SV43-10	10	1002											X				99cc	1
SV43-20	20	1020											X				123cc	1
SV45-8	8	1055											X				87cc	1
SV45-20	20	1100											X				123cc	1
SV46-8	8	1140											X				87cc	1
SV46-20	20	1150											X				123cc	1
SV47-8	8	1311											X				87cc	1
SV47-20	20	1322											X				123	1
SV48-8	8	1354											X				87cc	1
SV48-20	20	1401											X				123cc	1

Sample Receipt
Intact: ☑ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☑ N/A
Cold: ☐ Yes ☐ No
N/A (Received on Site)

Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
J. Jagmin	BEII	Marie Lattuga	HP LABS	01/15/02	1600
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal @ $2.00 each ☐ Return to client ☐ Pickup

Chain of Custody Record

HP LABS

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☐ 2373 208th Street Unit F-1, Torrance, CA 90501 • ph 310.782.2929 • fax 310.782.2798

Date: 01/15/02
HPL Project #: BE1011402-L2
Outside Lab: N/A

Client: BLAKELY ENVIRONMENTAL INVESTIGATION
Address: 7605 ARROW ROUTE, SUITE T
RANCHO CUCAMONGA, CA 91730
Phone: 909/989-9550 Fax: 760/249-1016

Collector:
Page: 2 Of 2
Client Project #: ANGELES CHEMICAL
Project Manager: HIRAM GARCIA
Location: 8915 SORENSEN AVE, SANTA FE SPRINGS
Turn around time: ON SITE

Notes:

Sample	Depth	Time	Date	Sample Type	Container Type	TPH gasoline / diesel	TPH extended	8021 for BTEX/MTBE	8021 for Halogenated compounds	418.1 TRPH	8260B: BTEX / Oxygenates	8260B: Oxygenates	8260B: VOCs	8260B: VOCs and Oxygenates	Methane	Fixed Gases	Field Notes	Total # of containers
SV49-8	8	1427	01/15/02	VAPOR	SYRINGE								X				Purge Volume 87cc	1
SV49-20	20	1433	↓	↓	↓								X				123cc	1
SV50-8	8	1515	↓	↓	↓								X				87cc	1
SV50-20	20	1530	"	"	"								X				123cc	1

Sample Receipt
Intact: ☑ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☑ N/A
Cold: ☐ Yes ☐ No
N/A (Received on Site)

Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
James Jazmin	BEII	Mark Lathy	HP LABS	01/15/02	1600

ANCHEM1587

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Sample disposal instruction: ☐ Disposal @ $2.00 each ☐ Return to client ☐ Pickup

Chain of Custody Record

HP LABS

☐ 148 S. Vinewood St., Escondido, CA 92029 • ph 760.735.3208 • fax 760.735.2469
☑ 432 N. Cedros Ave., Solana Beach, CA 92075 • ph 858.793.0401 • fax 858.793.0404
☐ 2373 208th Street Unit F-1, Torrance, CA 90501 • ph 310.782.2929 • fax 310.782.2798

Date: 01/16/02
HPL Project # BE1011402-L2
Outside Lab: N/A

Client: BLAKELY ENVIRONMENTAL INVESTIGATION
Address: 9605 ARROW ROUTE, SUITE T
RANCHO CUCAMONGA, CA 91730
ne: 909/989-9550 Fax: 760/249-1016

Collector:
Page: 1 Of 2
Client Project # ANGELES CHEMICAL Project Manager HIRAM GARCIA
Location: 8915 SORENSEN AVE, SANTA FE SPRINGS
Turn around time: ON SITE

ANCHEM1588

s:

8260B

Sample	Depth	Time	Date	Sample Type	Container Type	TPH gasoline / diesel	TPH extended	8021 for BTEX/MTBE	8021 for Halogenated compounds	418.1 TRPH	BTEX / Oxygenates	Oxygenates	VOCs	VOCs and Oxygenates	Methane	Fixed Gases	Field Notes	Total # of containers
SV51-8	8	0823	01/16/02	VAPOR	SYRINGE								X				Purge Volume 87cc	
SV51-20	20	0831											X				123cc	1
SV52-8	8	0851											X				87cc	1
SV52-20	20	0906											X				123cc	1
SV53-8	8	0932											X				87cc	1
SV53-20	20	1022											X				123cc	1
SV54-8	8	1035											X				87cc	1
SV54-20	20	1045											X				123cc	1
SV55-8	8	1237											X				87cc	1
SV55-20	20	1245											X				123cc	1
SV56-8	8	1407											X				87cc	1
SV56-20	20	1413											X				123cc	1
SV57-8	8	1431											X				87cc	1
SV57-20	20	1505											X				123cc	1

Sample Receipt
Intact: ☑ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☑ N/A
Cold: ☐ Yes ☐ No
N/A (Received on Site)

Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
[signature]	BELL	[signature]	HP LABS	01/16/02	1550
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal @ $2.00 each ☐ Return to client ☐ Pickup

Chain of Custody Record

HP LABS

- [ ] 148 S. Vinewood St., Escondido, CA 92029 • ph 760.735.3208 • fax 760.735.2469
- [x] 432 N. Cedros Ave., Solana Beach, CA 92075 • ph 858.793.0401 • fax 858.793.0404
- [ ] 2373 208th Street Unit F-1, Torrance, CA 90501 • ph 310.782.2929 • fax 310.782.2798

Date: 01/16/02
HPL Project # BE101402-L2
Outside Lab: N/A

Client: BLAKELY ENVIRONMENTAL INVESTIGATION
Address: 9605 ARROW ROUTE, SUITE T
RANCHO CUCAMONGA, CA 91730
Phone: 909/989-9550 Fax: 760/249-1016

Collector:
Client Project # ANGELES CHEMICAL
Location: 8915 SORENSEN AVE, SANTA FE SPRNG
Turn around time: ON SITE

Page: 2 Of 2
Project Manager HIRAM GARCIA

Notes:

Sample Receipt
Intact: ☐ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☐ N/A
Cold: ☐ Yes ☐ No
N/A (Received on Site)

Sample	Depth	Time	Date	Sample Type	Container Type	TPH gasoline / diesel	TPH extended	8021 for BTEX/MTBE	8021 for Halogenated compounds	418.1 TRPH	8260B BTEX / Oxygenates	8260B Oxygenates	8260B VOCs	8260B VOCs and Oxygenates	Methane	Fixed Gases	Field Notes	Total # of containers
SV58-8	8'	1525	01/16/02	VAPOR	SYRINGE								X				Purge Vol. 87cc	1
SV58-20	20'	1540	"	"	"								X				123cc	1

Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
James Gizmi	BE11	Mark Lettrup	HP LABS	01/16/02	1550

ANCHEM1589

...ature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal @ $2.00 each ☐ Return to client ☐ Pickup

Chain of Custody Record

HP LABS

☐ 148 S. Vinewood St., Escondido, CA 92029 • ph 760.735.3208 • fax 760.735.2469
☑ 432 N. Cedros Ave., Solana Beach, CA 92075 • ph 858.793.0401 • fax 858.793.0404
☐ 2373 208th Street Unit F-1, Torrance, CA 90501 • ph 310.782.2929 • fax 310.782.2798

Date: 01/17/02
HPL Project #: BE101402-LZ
Outside Lab: N/A

Client: BLAKELY ENVIRONMENTAL INVESTIGATION
Address: 9605 ARROW ROUTE, SUITE T
RANCHO CUCAMONGA, CA 91730
Phone: 909/989-9550 Fax: 760/249-1016

Collector:
Client Project #: ANGELES CHEMICAL
Location: 8915 SORENSEN AVE, SANTA FE SPRINGS
Turn around time: ON SITE

Page: 1 Of

Project Manager: HIRAM GARCIA

Notes:

Sample Receipt
Intact: ☑ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☑ N/A
Cold: ☐ Yes ☐ No
(N/A (Received on Site))

Sample	Depth	Time	Date	Sample Type	Container Type	TPH gasoline / diesel	TPH extended	8021 for BTEX/MTBE	8021 for Halogenated compounds	418.1 TRPH	8260B: BTEX / Oxygenates	8260B: Oxygenates	8260B: VOCs	8260B: VOCs and Oxygenates	Methane	Fixed Gases	Field Notes	Total # of containers
SV59-8	8'	0832	01/17/02	VAPOR	SYRINGE								X				Purge Vol. 87cc	1
SV59-20	20	0841											X				123cc	1
SV60-8	8'	0901											X				87cc	1
SV60-20	20	0910											X				123cc	1
SV44-5	5	1015											X				87cc	1
SV44-10	10	1025											X				99cc	1
SV44-20	20	1030											X				123cc	1

Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
Hiram Garcia	BGII	Mark Lattuge	HP LABS	01/17/02	1400
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:

ANCHEM1590

...ature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal @ $2.00 each ☐ Return to client ☐ Pickup

Client: Blakely Environmental Investigations, Inc.
Attn: Hiram Garcia

Client's Project: Angeles Chemical
Date Received: 01/14/02
Matrix: Air
Units: ug/L

EPA Method TO14

Lab No:	A2011402-01
Client Sample I.D.:	SV-40 20' Summa
Date Sampled:	01/14/02
Date Analyzed:	01/18/02
QC Batch No:	020118MS2A1
Analyst Initials:	SC
Dilution Factor:	2,615

ANALYTE	MDL	Result	RL
Dichlorodifluoromethane (12)	0.0049	ND	13
Chloromethane	0.0041	ND	11
1,2-Cl-1,1,2,2-F ethane (114)	0.0070	ND	18
Vinyl Chloride	0.0026	178	6.7
Bromomethane	0.0039	ND	10
Chloroethane	0.0026	7.1	6.9
Trichlorofluoromethane (11)	0.0056	ND	15
1,1-Dichloroethene	0.0040	671	10
1,1,2-Cl 1,2,2-F ethane (113)	0.0076	79	20
Methylene Chloride	0.0035	ND	9.1
1,1-Dichloroethane	0.0040	2,090	11
c-1,2-Dichloroethene	0.0040	519	10
Chloroform	0.0049	ND	13
1,1,1-Trichloroethane	0.0054	255	14
Carbon Tetrachloride	0.0063	ND	16
Benzene	0.0032	ND	8.3
1,2-Dichloroethane	0.0040	ND	11
Trichloroethene	0.0054	ND	14
1,2-Dichloropropane	0.0046	ND	12
c-1,3-Dichloropropene	0.0045	ND	12
Toluene	0.0038	27	9.8
t-1,3-Dichloropropene	0.0045	ND	12
1,1,2-Trichloroethane	0.0054	ND	14
Tetrachloroethene	0.0068	ND	18
1,2-Dibromoethane	0.0077	ND	20
Chlorobenzene	0.0046	ND	12
Ethylbenzene	0.0043	37	11
p,&m-Xylene	0.0043	66	11
o-Xylene	0.0043	20	11
Styrene	0.0043	ND	11
1,1,2,2-Tetrachloroethane	0.010	ND	27
1,3,5-Trimethylbenzene	0.0098	ND	26
1,2,4-Trimethylbenzene	0.0098	31	26
1,3-Dichlorobenzene	0.0060	ND	16
1,4-Dichlorobenzene	0.0060	ND	16
1,2-Dichlorobenzene	0.0060	ND	16
1,2,4-Trichlorobenzene	0.0074	ND	19
Hexachlorobutadiene	0.011	ND	28

MDL = Method Detection Limit
ND= Not Detected (below RL)
RL = MDL X Dilution Factor

Reviewed/Approved By: Mark Johnson
Air Toxics Operations Manager

Date 2-19-02

The cover letter is an integral part of this analytical report

Client: Blakely Environmental Investigations, Inc.
Attn: Hiram Garcia

Client's Project: Angeles Chemical
Date Received: 01/16/02
Matrix: Air
Units: ug/L

EPA Method TO14

Lab No:		A2011607-01		A2011607-02		A2011607-03					
Client Sample I.D.:		SV50-20'		SV45-20'		SV55-20'					
Date Sampled:		01/15/02		01/15/02		01/16/02					
Date Analyzed:		01/18/02		01/18/02		01/18/02					
QC Batch No:		020118MS2A1		020118MS2A1		020118MS2A1					
Analyst Initials:		SC		SC		SC					
Dilution Factor:		674		131		326					
ANALYTE	MDL	Result	RL	Result	RL	Result	RL				
Dichlorodifluoromethane (12)	0.0049	ND	3.3	ND	0.65	ND	1.6				
Chloromethane	0.0041	ND	2.8	ND	0.54	ND	1.3				
1,2-Cl-1,1,2,2-F ethane (114)	0.0070	ND	4.7	ND	0.91	ND	2.3				
Vinyl Chloride	0.0026	4.3	1.7	1.1	0.33	ND	0.83				
Bromomethane	0.0039	ND	2.6	ND	0.51	ND	1.3				
Chloroethane	0.0026	ND	1.8	0.49	0.34	ND	0.86				
Trichlorofluoromethane (11)	0.0056	ND	3.8	ND	0.73	ND	1.8				
1,1-Dichloroethene	0.0040	202	2.7	2.9	0.52	128	1.3				
1,1,2-Cl 1,2,2-F ethane (113)	0.0076	35	5.2	ND	1.0	5.7	2.5				
Methylene Chloride	0.0035	ND	2.3	ND	0.45	ND	1.1				
1,1-Dichloroethane	0.0040	288	2.7	42	0.53	20	1.3				
c-1,2-Dichloroethene	0.0040	68	2.7	72	0.52	47	1.3				
Chloroform	0.0049	ND	3.3	ND	0.64	ND	1.6				
1,1,1-Trichloroethane	0.0054	288	3.7	7.1	0.71	220	1.8				
Carbon Tetrachloride	0.0063	ND	4.2	ND	0.82	ND	2.0				
Benzene	0.0032	ND	2.1	ND	0.42	ND	1.0				
1,2-Dichloroethane	0.0040	ND	2.7	ND	0.53	ND	1.3				
Trichloroethene	0.0054	4.0	3.6	33	0.70	ND	1.7				
1,2-Dichloropropane	0.0046	ND	3.1	ND	0.60	ND	1.5				
c-1,3-Dichloropropene	0.0045	ND	3.1	ND	0.59	ND	1.5				
Toluene	0.0038	ND	2.5	ND	0.49	ND	1.2				
t-1,3-Dichloropropene	0.0045	ND	3.1	ND	0.59	ND	1.5				
1,1,2-Trichloroethane	0.0054	ND	3.7	ND	0.71	ND	1.8				
Tetrachloroethene	0.0068	10	4.6	39	0.88	5.7	2.2				
1,2-Dibromoethane	0.0077	ND	5.2	ND	1.0	ND	2.5				
Chlorobenzene	0.0046	ND	3.1	ND	0.60	ND	1.5				
Ethylbenzene	0.0043	ND	2.9	ND	0.57	ND	1.4				
p,&m-Xylene	0.0043	ND	2.9	ND	0.57	ND	1.4				
o-Xylene	0.0043	ND	2.9	ND	0.57	ND	1.4				
Styrene	0.0043	ND	2.9	ND	0.56	ND	1.4				
1,1,2,2-Tetrachloroethane	0.010	ND	7.0	ND	1.4	ND	3.4				
1,3,5-Trimethylbenzene	0.0098	ND	6.6	ND	1.3	ND	3.2				
1,2,4-Trimethylbenzene	0.0098	ND	6.6	ND	1.3	ND	3.2				
1,3-Dichlorobenzene	0.0060	ND	4.0	ND	0.78	ND	2.0				
1,4-Dichlorobenzene	0.0060	ND	4.0	ND	0.78	ND	2.0				
1,2-Dichlorobenzene	0.0060	ND	4.0	ND	0.78	ND	2.0				
1,2,4-Trichlorobenzene	0.0074	ND	5.0	ND	0.97	ND	2.4				
Hexachlorobutadiene	0.011	ND	7.2	ND	1.4	ND	3.5				

MDL = Method Detection Limit
ND= Not Detected (below RL)
RL = MDL X Dilution Factor

Reviewed/Approved By: _____ **Date** 2-15-02
Mark Johnson
Air Toxics Operations Manager

The cover letter is an integral part of this analytical report

Client: Blakely Environmental Investigations, Inc.
Attn: Hiram Garcia

Client's Project: Angeles Chemical
Date Received: 01/18/02
Matrix: Air
Units: ug/L

EPA Method TO14

Lab No:	A2011802-01				
Client Sample I.D.:	SV-60-20				
Date Sampled:	01/17/02				
Date Analyzed:	01/22/02				
QC Batch No:	020122MS2A1				
Analyst Initials:	SC				
Dilution Factor:	3.258				

ANALYTE	MDL	Result	RL
Dichlorodifluoromethane (12)	0.0049	ND	16
Chloromethane	0.0041	ND	13
1,2-Cl-1,1,2,2-F ethane (114)	0.0070	ND	23
Vinyl Chloride	0.0026	11	8.3
Bromomethane	0.0039	ND	13
Chloroethane	0.0026	ND	8.6
Trichlorofluoromethane (11)	0.0056	ND	18
1,1-Dichloroethene	0.0040	712	13
1,1,2-Cl 1,2,2-F ethane (113)	0.0076	ND	25
Methylene Chloride	0.0035	ND	11
1,1-Dichloroethane	0.0040	285	13
c-1,2-Dichloroethene	0.0040	2,200	13
Chloroform	0.0049	ND	16
1,1,1-Trichloroethane	0.0054	2,400	18
Carbon Tetrachloride	0.0063	ND	20
Benzene	0.0032	ND	10
1,2-Dichloroethane	0.0040	ND	13
Trichloroethene	0.0054	18	17
1,2-Dichloropropane	0.0046	ND	15
c-1,3-Dichloropropene	0.0045	ND	15
Toluene	0.0038	24	12
t-1,3-Dichloropropene	0.0045	ND	15
1,1,2-Trichloroethane	0.0054	ND	18
Tetrachloroethene	0.0068	23	22
1,2-Dibromoethane	0.0077	ND	25
Chlorobenzene	0.0046	ND	15
Ethylbenzene	0.0043	15	14
p,&m-Xylene	0.0043	22	14
o-Xylene	0.0043	ND	14
Styrene	0.0043	ND	14
1,1,2,2-Tetrachloroethane	0.010	ND	34
1,3,5-Trimethylbenzene	0.0098	ND	32
1,2,4-Trimethylbenzene	0.0098	ND	32
1,3-Dichlorobenzene	0.0060	ND	20
1,4-Dichlorobenzene	0.0060	ND	20
1,2-Dichlorobenzene	0.0060	ND	20
1,2,4-Trichlorobenzene	0.0074	ND	24
Hexachlorobutadiene	0.011	ND	35

MDL = Method Detection Limit
ND= Not Detected (below RL)
RL = MDL X Dilution Factor

Reviewed/Approved By: Mark Johnson
Air Toxics Operations Manager

Date 2-14-02

The cover letter is an integral part of this analytical report

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 020118MS2A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	01/18/02		01/18/02		01/18/02						
Data File ID:	18JAN005.D		18JAN003.D		18JAN004.D						
Analyst Initials:	SC		SC		SC						
Dilution Factor:	1.0		1.0		1.0			Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	8.9	89	8.6	86	4.2	70	130	30	Pass
Methylene Chloride	0.0	10.0	10.1	101	9.7	97	4.5	70	130	30	Pass
Trichloroethene	0.0	10.0	8.1	81	7.7	77	4.4	70	130	30	Pass
Toluene	0.0	10.0	8.3	83	8.0	80	3.6	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	8.4	84	8.1	81	3.4	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: Mark Johnson
Mark Johnson
Air Toxics Operations Manager

Date: 1-23-02

The cover letter is an integral part of this analytical report

Advanced Technology Laboratories 18501 E. Gale Avenue Suite 130 City of Industry, CA 91748 Tel: 626 964-4032 Fax: 626 964-5832

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 020122MS2A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	01/22/02		01/22/02		01/22/02						
Data File ID:	22JAN005.D		22JAN003.D		22JAN004.D						
Analyst Initials:	SC		SC		SC						
Dilution Factor:	1.0		1.0		1.0			Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	8.7	87	8.4	84	3.4	70	130	30	Pass
Methylene Chloride	0.0	10.0	9.7	97	9.2	92	5.7	70	130	30	Pass
Trichloroethene	0.0	10.0	7.9	79	7.7	77	3.2	70	130	30	Pass
Toluene	0.0	10.0	8.1	81	7.8	78	3.7	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	8.5	85	8.2	82	3.4	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: Mark Johnson

Mark Johnson
Air Toxics Operations Manager

Date: 1-24-02

The cover letter is an integral part of this analytical report

CHAIN OF CUSTODY RECORD

Pg ____ of ____

Advanced Technology Laboratories
18501 E. Gale Avenue Suite 130
City of Industry, CA 91748
626-964-4032 • Fax: 626-964-5832

FOR LABORATORY USE ONLY:

P.O.#: ____

Logged By: ____ Date: ____ Time: ____

Method of Transport: Walk-in ☐ Courier ☐ UPS ☐ FED. EXP. ☐ ATL ☐

Sample Condition Upon Receipt:
1. CHILLED Y☐ N☐ 4. SEALED Y☐ N☐
2. HEADSPACE (VOA) Y☐ N☐ 5. # OF SPLS MATCH COC Y☐ N☐
3. CONTAINER INTACT Y☐ N☐ 6. PRESERVED Y☐ N☐

Client: BEII
Attn: Hiram Garcia
Address: 9605 Arrow Route, Suite T
City: Rancho Cucamonga State: CA Zip Code: 91730
TEL: (909) 989-9550
FAX: (909) 989-9556

Project Name: Angeles Chemical Project #: Sampler: (Printed Name) Hiram Garcia (Signature)

Relinquished by: (Signature and Printed Name) Hiram Garcia Date: 1/14/02 Time: 17:00 Received by: (Signature and Printed Name) Mark Johnson Date: 1-14-02 Time: 17:00

Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Hiram Garcia (Print Name) 1/14/02 (Date)
Hiram Garcia (Signature)

Send Report To:
Attn: ____
Co: ____
Address ____
City ____ State ____ Zip ____

Bill To:
Attn: ____
Co: ____
Address ____
City ____ State ____ Zip ____

Special Instructions/Comments:

Unless otherwise requested, all samples will be disposed 45 days after receipt.

Sample Archive/Disposal:
☐ Laboratory Standard
☐ Other ____
☐ Return To: ____

* $10.00 FEE PER HAZARDOUS SAMPLE DISPOSAL.

Circle or Add Analysis(es) Requested: 8081 / 8082 (Pesticides/PCB-GC); 8260 (Volatiles-GC/MS); 625 / 8270 (BNA-GC/MS); Metals-Total (ICAC-6010 / 7000); 8015M TPHG/BTEX (COMBINATION); 8015M TPH/D (Diesel-GC); TO-14

CIRCLE APPROPRIATE MATRIX: SOLID • SOIL • SLUDGE; OIL • SOLVENT • LIQUID; WATER • WASTEWATER; DRINKING WATER; AIR; WIPE • FILTER; OTHER

ITEM	LAB USE ONLY: Batch #: Lab No.	Sample Description: Sample I.D.	Date	Time	8081 / 8082 (Pesticides/PCB-GC)	8260 (Volatiles-GC/MS)	625 / 8270 (BNA-GC/MS)	Metals-Total (ICAC-6010 / 7000)	8015M TPHG/BTEX (COMBINATION)	8015M TPH/D (Diesel-GC)	TO-14	SOLID • SOIL • SLUDGE	OIL • SOLVENT • LIQUID	WATER • WASTEWATER	DRINKING WATER	AIR	WIPE • FILTER	OTHER	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	A2011402-01	SV-40 20' Summa	1/14/02								X					X				1	Summa		

QA/QC: RTNE ☐ RWQCB ☐ WIP ☐ NAVY ☐ CT ☐ OTHER ____

ANCHEM1596

• TAT starts 8 a.m. following day if samples received after 5 p.m.

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=HCl N=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

DISTRIBUTION: **White** with report, **Yellow** to folder, **Pink** to submitter.

CHAIN OF CUSTODY RECORD

Pg 1 of 1

Advanced Technology Laboratories
18501 E. Gale Avenue Suite 130
City of Industry, CA 91748
626-964-4032 • Fax: 626-964-5832

FOR LABORATORY USE ONLY:

P.O.#: _____

Logged By: _____ Date: _____ Time: _____

Method of Transport: Walk-in ☑ Courier ☐ UPS ☐ FED. EXP. ☐ ATL ☐

Sample Condition Upon Receipt:
1. CHILLED Y☐ N☐ 4. SEALED Y☐ N☐
2. HEADSPACE (VOA) Y☐ N☐ 5. # OF SPLS MATCH COC Y☐ N☐
3. CONTAINER INTACT Y☐ N☐ 6. PRESERVED Y☐ N☐

Client: Blakely Env. Inv., Inc.
Attn: Hiram Garcia
Address: 4605 Arrow Route, Suite 7
City: Rancho Cucamonga State: CA Zip Code: 91730
TEL: (909) 989-9550
FAX: (909) 989-9556

Project Name: Angeles Chemical Project #: Sampler: (Printed Name) Hiram Garcia (Signature) Hiram Garcia

Relinquished by: (Signature and Printed Name) Hiram Garcia Hiram Garcia Date: 1/16/02 Time: 1545 Received by: (Signature and Printed Name) [illegible] ATL Date: 1/16/02 Time: 1545

Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter:
Hiram Garcia (Print Name) 1/16/02 (Date)
Hiram Garcia (Signature)

Send Report To: Attn: _____ Co: _____ Address _____ City _____ State _____ Zip _____

Bill To: Attn: _____ Co: _____ Address _____ City _____ State _____ Zip _____

Special Instructions/Comments:

Unless otherwise requested, all samples will be disposed 45 days after receipt.

Sample Archive/Disposal:
☑ Laboratory Standard
☐ Other _____
☐ Return To: _____

* $10.00 FEE PER HAZARDOUS SAMPLE DISPOSAL.

Circle or Add Analysis(es) Requested

CIRCLE APPROPRIATE MATRIX

QA/QC: RTNE ☐ RWQCB ☐ WIP ☐ NAVY ☐ CT ☐ OTHER _____

ITEM	LAB USE ONLY: Batch #: Lab No.	Sample Description: Sample I.D.	Date	Time	8081 / 8082 (Pesticides/PCB-GC)	8260 (Volatiles-GC/MS)	625 / 8270 (BNA-GC/MS)	Metals-Total (CAC-6010 / 7000)	8015M TPHG/BTEX (COMBINATION)	8015M TPH/D (Diesel-GC)	TO-14	SOLID • SOIL • SLUDGE	OIL • SOLVENT • LIQUID	WATER • WASTEWATER	DRINKING WATER	AIR	WIPE • FILTER	OTHER	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	A3011607-01	SV50-20'	1/15/02								X					X				1	Summa		
	-02	SV45-20'	1/15/02								X					X				1	"		
	-03	SV55-20'	1/16/02								X					X				1	"		

ANCHEM1597

• TAT starts 8 a.m. following day if samples received after 5 p.m.

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=HCl N=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

DISTRIBUTION: White with report, Yellow to folder, Pink to submitter.

CHAIN OF CUSTODY RECORD

Pg ____ of ____

Advanced Technology Laboratories
18501 E. Gale Avenue Suite 130
City of Industry, CA 91748
626-964-4032 • Fax: 626-964-5832

FOR LABORATORY USE ONLY:

P.O.#: ____

Logged By: ____ Date: ____ Time: ____

Method of Transport: Walk-in ☑ Courier ☐ UPS ☐ FED. EXP. ☐ ATL ☐

Sample Condition Upon Receipt: 1. CHILLED Y☐ N☐ 2. HEADSPACE (VOA) Y☐ N☐ 3. CONTAINER INTACT Y☐ N☐ 4. SEALED Y☐ N☐ 5. # OF SPLS MATCH COC Y☐ N☐ 6. PRESERVED Y☐ N☐

Client: Blakely Env. Inv., Inc.
Attn: Hiram Garcia
Address: 9605 Arrow Route
City: Rancho Cucamonga State: CA Zip Code: 91730
TEL: (909) 989-9550
FAX: (909) 989-9551

Project Name: Angeles Chem
Project #:
Sampler: (Printed Name) (Signature)

Relinquished by: (Signature and Printed Name) Hiram Garcia Date: 1/16/02 Time: 1115
Received by: (Signature and Printed Name) Cecile Bellavist / Joan DeLeon ATL Date: 1/18/02 Time: 1115

Relinquished by: (Signature and Printed Name) Date: Time:
Received by: (Signature and Printed Name) Date: Time:

Relinquished by: (Signature and Printed Name) Date: Time:
Received by: (Signature and Printed Name) Date: Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter:
Hiram Garcia 1/16/02
Print Name Date
Signature

Send Report To:
Attn: ____
Co: ____
Address ____
City ____ State ____ Zip ____

Bill To:
Attn: ____
Co: ____
Address ____
City ____ State ____ Zip ____

Special Instructions/Comments:

Unless otherwise requested, all samples will be disposed 45 days after receipt.

Sample Archive/Disposal:
☐ Laboratory Standard
☐ Other ____
☐ Return To: ____

* $10.00 FEE PER HAZARDOUS SAMPLE DISPOSAL.

Circle or Add Analysis(es) Requested: 8081 / 8082 (Pesticides/PCB-GC); 8260 (Volatiles-GC/MS); 625 / 8270 (BNA-GC/MS); Metals-Total (CAC-6010 / 7000); 8015M TPHG/BTEX (COMBINATION); 8015M TPH/D (Diesel-GC); TL-14

CIRCLE APPROPRIATE MATRIX: SOLID • SOIL • SLUDGE; OIL • SOLVENT • LIQUID; WATER • WASTEWATER; DRINKING WATER; AIR; WIPE • FILTER; OTHER

QA/QC: RTNE ☐ RWQCB ☐ WIP ☐ NAVY ☐ CT ☐ OTHER ____

ITEM	LAB USE ONLY: Batch #: / Lab No.	Sample Description: Sample I.D.	Date	Time	8081 / 8082 (Pesticides/PCB-GC)	8260 (Volatiles-GC/MS)	625 / 8270 (BNA-GC/MS)	Metals-Total (CAC-6010 / 7000)	8015M TPHG/BTEX (COMBINATION)	8015M TPH/D (Diesel-GC)	TL-14	SOLID • SOIL • SLUDGE	OIL • SOLVENT • LIQUID	WATER • WASTEWATER	DRINKING WATER	AIR	WIPE • FILTER	OTHER	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	A2C1R82-01	SV-60-20	1/16/02								X					X			E	1	M		

ANCHEM1598

• TAT starts 8 a.m. following day if samples received after 5 p.m.

TAT: A= Overnight ≤ 24 hr; B= Emergency Next workday; C= Critical 2 Workdays; D= Urgent 3 Workdays; E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=Hcl N=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

HP Labs

2373 W. 208th Street, Unit F-1
Torrance, CA 90501
Phone: 310-782-2929 Fax: 310-782-2798

7/2/2002

Blakely Environmental
9605 Arrow Route, Suite T
Rancho Cucamonga, CA 91730

Project Name: Angeles Chemical
Project No.: N/A

Attention: Hiram Garcia

HP Labs received and analyzed the following sample(s):

Date Received	Quantity	Matrix
6/13/2002	12	Vapor

The samples were analyzed by one or more of the EPA methodologies or equivalent methods listed below.

VOCs -- EPA Method 8260

The results are included with a summary of the quality control procedures. Please note that the symbol "nd" indicates a value below the reporting limit for the particular compound in the sample. Isopropanol was not detected for all samples.

Please feel free to call us to discuss any part of this report or to schedule future projects.

Sincerely,

Nick C. Adolfo
Operations Manager

HP Labs is certified by the California Department of Health Services (certificate #s: 1194, 1561, 1921, 2088, 2278).

HP Project # BEI061302-L5

HP labs

Report Summary

EPA Method 8260B (5035 Prep.)

Client: Blakely Environmental
Project: Angeles Chemical

Matrix: vapor
Units: ug/L

Sample Name:		SV61-12'	SV61-12'	SV61-12'
Analysis Date		13 Jun 2002	13 Jun 2002	13 Jun 2002
Analysis Time		12:07pm	1:04pm	12:39pm
Dilution Factor:	0.05	0.05	0.05	0.05
purge volume		2	3	5
Compound	E.Q.L.	Amount Found	Amount Found	Amount Found
Dichlorodifluoromethane	1.0	nd	nd	nd
Vinyl Chloride	1.0	nd	nd	nd
Chloroethane	1.0	nd	nd	nd
Trichlorofluoromethane	1.0	nd	nd	nd
1,1-Dichloroethene	1.0	nd	nd	nd
Methylene Chloride	1.0	nd	nd	nd
freon-113	1.0	nd	nd	nd
trans-1,2-Dichloroethene	1.0	nd	nd	nd
1,1-Dichloroethane	1.0	nd	nd	nd
cis-1,2-Dichloroethene	1.0	7.1	2.2	2.1
Chloroform	1.0	nd	nd	nd
1,1,1-Trichloroethane	1.0	nd	nd	nd
Carbon Tetrachloride	1.0	nd	nd	nd
1,2-Dichloroethane	1.0	nd	nd	nd
Benzene	1.0	nd	nd	nd
Trichloroethene	1.0	nd	nd	nd
Toluene	1.0	nd	nd	nd
1,1,2-Trichloroethane	1.0	nd	nd	nd
Tetrachloroethene	1.0	nd	nd	nd
Ethylbenzene	1.0	nd	nd	nd
1,1,1,2-Tetrachloroethane	1.0	nd	nd	nd
m,p-Xylene	1.0	nd	nd	nd
o-Xylene	1.0	nd	nd	nd
1,1,2,2-Tetrachloroethane	1.0	nd	nd	nd

Surrogates	Spiked	QC Limits(% Rec.)			Percent Recovery
DBFM	50 ng	75-125	100	110	110
1,2-DCA-d4	50 ng	75-126	103	115	117
Toluene - d8	50 ng	75-127	90	105	109
1,4-BFB	50 ng	75-128	81	97	109

Analyses performed by:

BEI061302-L5

ANCHEM1600

HP labs

Report Summary

EPA Method 8260B (5035 Prep.)

Client: Blakely Environmental
Project: Angeles Chemical

Matrix: vapor
Units: ug/L

Sample Name:		SV61-12'	SV61-20'	SV62-10.5'	SV63-10.5'	SV64-12'	SV64-20'
Analysis Date		13 Jun 2002	13 Jun 2002	13 Jun 2002	13 Jun 2002	13 Jun 2002	13 Jun 2002
Analysis Time		12:07pm	1:33pm	2:07pm	2:32pm	2:59pm	3:23pm
Dilution Factor:	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Compound	E.Q.L	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found	Amount Found
Dichlorodifluoromethane	1.0	nd	nd	nd	nd	nd	nd
Vinyl Chloride	1.0	nd	nd	nd	nd	nd	14
Chloroethane	1.0	nd	nd	nd	nd	nd	nd
Trichlorofluoromethane	1.0	nd	nd	nd	nd	nd	nd
1,1-Dichloroethene	1.0	nd	nd	nd	nd	nd	1100 D
Methylene Chloride	1.0	nd	nd	nd	nd	nd	nd
Freon-113	1.0	nd	nd	nd	nd	nd	47
trans-1,2-Dichloroethene	1.0	nd	nd	nd	nd	nd	3.8
1,1-Dichloroethane	1.0	nd	2.4	7.1	1.8	nd	280 D
cis-1,2-Dichloroethene	1.0	7.1	26	nd	nd	7.3	3200 D
Chloroform	1.0	nd	1.5	nd	nd	nd	nd
1,1,1-Trichloroethane	1.0	nd	nd	nd	nd	nd	4300 D
Carbon Tetrachloride	1.0	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane	1.0	nd	nd	nd	nd	nd	nd
Benzene	1.0	nd	nd	1.3	nd	nd	2.7
Trichloroethene	1.0	nd	nd	nd	nd	nd	170
Toluene	1.0	nd	10	nd	nd	nd	110
1,1,2-Trichloroethane	1.0	nd	nd	nd	nd	nd	nd
Tetrachloroethene	1.0	nd	nd	nd	nd	nd	59
Ethylbenzene	1.0	nd	nd	nd	nd	nd	31
1,1,1,2-Tetrachloroethane	1.0	nd	nd	nd	nd	nd	nd
m,p-Xylene	1.0	nd	nd	nd	nd	nd	57
o-Xylene	1.0	nd	nd	nd	nd	nd	24
1,1,2,2-Tetrachloroethane	1.0	nd	nd	nd	nd	nd	nd

Surrogates	Spiked	QC Limits(% Rec.)			Percent Recovery			
DBFM	50 ng	75-125	100	102	100	102	94	80
1,2-DCA-d4	50 ng	75-125	103	110	109	106	98	284 M
Toluene - d8	50 ng	75-125	90	111	102	103	94	620 M
1,4-BFB	50 ng	75-125	81	99	116	101	94	117

Analyses performed by:

BEI061302-L5

ANCHEM1601

HP labs

Report Summary

EPA Method 8260B (5035 Prep.)

Client: Blakely Environmental
Project: Angeles Chemical

Matrix: vapor
Units: ug/L

Sample Name:		SV65-12'	SV65-20'	SV66-7'	SV67-7'
Analysis Date		13 Jun 2002	13 Jun 2002	13 Jun 2002	13 Jun 2002
Analysis Time		6:47pm	4:17pm	7:34pm	7:58pm
Dilution Factor:	0.05	0.1	0.05	0.1	0.1

Compound	E.O.L	Amount Found	Amount Found	Amount Found	Amount Found
Dichlorodifluoromethane	1.0	nd	nd	nd	nd
Vinyl Chloride	1.0	nd	4.8	nd	nd
Chloroethane	1.0	nd	nd	nd	nd
Trichlorofluoromethane	1.0	nd	nd	nd	nd
1,1-Dichloroethene	1.0	3.5	670 D	nd	nd
Methylene Chloride	1.0	nd	nd	nd	nd
Freon-113	1.0	nd	nd	nd	nd
trans-1,2-Dichloroethene	1.0	nd	1.6	nd	nd
1,1-Dichloroethane	1.0	nd	160 E	nd	nd
cis-1,2-Dichloroethene	1.0	8.1	880 D	nd	nd
Chloroform	1.0	nd	nd	nd	nd
1,1,1-Trichloroethane	1.0	16	1600 D	nd	nd
Carbon Tetrachloride	1.0	nd	nd	nd	nd
1,2-Dichloroethane	1.0	nd	nd	nd	nd
Benzene	1.0	nd	1.7	nd	nd
Trichloroethene	1.0	1.2	100	nd	nd
Toluene	1.0	1.2	12	nd	nd
1,1,2-Trichloroethane	1.0	nd	nd	nd	nd
Tetrachloroethene	1.0	1.0	58	nd	nd
Ethylbenzene	1.0	nd	1.3	nd	nd
1,1,1,2-Tetrachloroethane	1.0	nd	nd	nd	nd
m,p-Xylene	1.0	nd	20	nd	nd
o-Xylene	1.0	nd	14	nd	nd
1,1,2,2-Tetrachloroethane	1.0	nd	nd	nd	nd

Surrogates	Spiked	QC Limits(% Rec.)				Percent Recovery	
DBFM	50 ng	75-125	87	52	M	87	81
1,2-DCA-d4	50 ng	75-125	82	155	M	82	77
Toluene - d8	50 ng	75-125	100	428	M	100	92
1,4-BFB	50 ng	75-125	110	109		109	103

Analyses performed by:

BEI061302-L5

ANCHEM1602

HP labs

Calibration Verification

EPA Method 8260B

(5030 Prep.)

Client: Blakely Environmental
Project: Angeles Chemical

Matrix: vapor
Units: ug/L

Sample Name: CCV
Analysis Date 13 Jun 2002
Analysis Time 11:15am
Dilution Factor: 1

Compound		Amount Found	Percent Diff	VOC's (-15 to +15%) Pass	VOC gases (-25 to +25%) Pass
Dichlorodifluoromethane		49	-1		yes
Vinyl Chloride		54	7		yes
Chloroethane		49	-2		yes
Trichlorofluoromethane		51	2		yes
1,1-Dichloroethene	#	46	-7	yes	
Methylene Chloride		43	-13	yes	
Freon-113		60	21	no	
trans-1,2-Dichloroethene	#	46	-7	yes	
1,1-Dichloroethane	#	49	-3	yes	
cis-1,2-Dichloroethene	#	45	-10	yes	
Chloroform		48	-4	yes	
1,1,1-Trichloroethane	#	51	2	yes	
Carbon Tetrachloride		50	0	yes	
1,2-Dichloroethane	#	51	1	yes	
Benzene	#	46	-8	yes	
Trichloroethene	#	46	-8	yes	
Toluene	#	44	-12	yes	
1,1,2-Trichloroethane	#	44	-13	yes	
Tetrachloroethene	#	47	-7	yes	
Ethylbenzene		50	1	yes	
1,1,1,2-Tetrachloroethane		49	-1	yes	
m,p-Xylene	#	103	3	yes	
o-Xylene	#	48	-4	yes	
1,1,2,2-Tetrachloroethane		42	-17	no	

Surrogates	Spiked	QC Limits(% Rec.)	
DBFM	50 ng	80-120	101
1,2-DCA-d4	50 ng	65-135	109
Toluene - d8	50 ng	80-120	91
1,4-BFB	50 ng	65-135	97

BEI061302-L5

ANCHEM1603

HP labs

Footnote Summary

Footnote	Definition
E.Q.L.	Estimated Quantitation Limit
nd	Not detected above the E.Q.L.
J	The concentration reported is between the Method Detection Limit and the E.Q.L.
D	Concentration reported from a secondary dilution; E.Q.L.s adjusted accordingly.
B	Analyte found in the associated blank.
E	Analyte amount exceeds calibration range. Amount quantitated by extrapolation.
***	MS/MSD, LCS/LCSD recovery is outside QC range; no corrective action taken.
M	Surrogate recovery outside QC range due to matrix interference.
S	Because of necessary sample dilution, value was outside QC limits.
&	Gasoline range organics not identified as gasoline.
#	Diesel range organics not identified as diesel.
**	This compound has been screened by EPA method 8020. Any positive results should be confirmed by a second analysis.

ANCHEM1604

Chain of Custody Record

HP LABS

☐ 148 S. Vinewood St., Escondido, CA 92029 • ph 760.735.3208 • fax 760.735.2469
☐ 432 N. Cedros Ave., Solana Beach, CA 92075 • ph 858.793.0401 • fax 858.793.0404
☐ 2373 208th Street Unit F-1, Torrance, CA 90501 • ph 310.782.2929 • fax 310.782.2798

Date: 6/13/02
HPL Project # BE1061302-LS
Outside Lab:

Client: Blakely Environmental
Address: 9605 Arrow Route, Suite T
Rancho Cucomonga, CA 91730
Phone: 909-989-9550 Fax: 760-249-1016

Collector:
Client Project # Angeles
Location: 8915 Sorenson Ave
Turn around time:

Page: 1 Of 1
Project Manager Hiram Garcia

Notes:

Sample	Depth	Time	Date	Sample Type	Container Type	TPH gasoline / diesel	TPH extended	8021 for BTEX/MTBE	8021 for Halogenated compounds	418.1 TRPH	8260B: BTEX / Oxygenates	8260B: Oxygenates	8260B: VOCs	8260B: VOCs and Oxygenates	Methane	Fixed Gases	Soil Vapor						Total # of containers
SV61-12' P2	12	1140	6/13	Vapor	Sg.												X						
SV61-12' P5	12	1141															X						
SV61-12' P7	12	1142															X						
SV61-20	20	1240															X						
SV62-10.5	10.5	1345															X						
SV63-10.5	10.5	1410															X						
SV64-12	12	1435															X						
SV64-20	20	1445															X						
SV65-12	12	1505															X						
SV65-20	20	1515															X						
SV66-7	7	1525															X						
SV67-7	7	1535															X						

Sample Receipt
Intact: ☐ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☐ N/A
Cold: ☐ Yes ☐ No
N/A (Received on Site)
Field Notes

uished by: (Signature) Hiram Garcia	(company) BEIT	Received by: (Signature) Jamia Davis	(company) HPL	Date: 6/13/02	Time: 4:00
uished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
uished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:

ure constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal @ $2.00 each ☐ Return to client ☐ Pickup

ANCHEM1605

STS

Southland Technical Services, Inc.
Environmental Laboratories

7801 Telegraph Road, Suite L
Montebello, CA 90640

Phone (323) 888-0728
Fax (323) 888-1509

07-03-2002

Mr. Hiram Garcia
Blakely Environmental Investigations, Inc.
9605 Arrow Highway, Suite T
Rancho Cucamonga, CA 91730

Project: Angeles Chemical Co.
Project Site: Angeles Chemical Co.
Sample Date: 06-13-2002
Lab Job No.: BL206087

Dear Mr. Garcia:

Enclosed please find the analytical report for the sample(s) received by STS Environmental Laboratories on 06-13-2002 and analyzed for the following parameters:

VOCs by GC/MS (EPA TO14/TO15)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions and with a chain of custody record attached.

STS Environmental Laboratory is certified by CA DHS (Certificate Number 1986). Thank you for giving us the opportunity to serve you. Please feel free to call me at (323) 888-0728 if our laboratory can be of further service to you.

Sincerely,

Roger Wang, Ph. D.
Laboratory Director

Enclosures

This cover letter is an integral part of this analytical report.

STS

Southland Technical Services, Inc.
Environmental Laboratories

7801 Telegraph Road, Suite L
Montebello, CA 90640

Phone (323) 888-0728
Fax (323) 888-1509

07-03-2002

Client:	Blakely Environmental Investigations, Inc.	Lab Job No.:	BL206087
Project:	Angeles Chemical Co.		
Project Site:	Angeles Chemical Co.	Date Sampled:	06-13-2002
Matrix:	Vapor in Suma Canister	Date Received:	06-13-2002
Batch No.:	0614-VOAV	Date Analyzed:	06-14-2002

VOCs by GC/MS (EPA TO14/TO15)
Reporting Unit: µg/L

		DATE ANALYZED	06-14	06-14-02				
		DILUTION FACTOR	1	1				
		LAB SAMPLE I.D.		BL206087-1				
		CLIENT SAMPLE I.D.		SV-65' 20'				
COMPOUND	**MDL**	**PQL**	**MB**					
Vinyl Chloride	2	2	ND	8.8				
1,1-Dichloroethene (1,1-DCE)	5	5	ND	1,070				
1,1-Dichloroethane (1,1-DCA)	5	5	ND	138				
cis-1,2-Dichloroethene	5	5	ND	1,550				
1,1,1-Trichloroethane	5	5	ND	2,650				
Benzene	2	2	ND	2.5				
Trichloroethene (TCE)	5	5	ND	104				
Toluene	2	2	ND	13.7				
Tetrachloroethene (PCE)	5	5	ND	79				
Ethylbenzene	2	2	ND	ND				
Total Xylenes	4	4	ND	81				

MDL=Method Detection Limit; MB=Method Blank; ND=Not Detected (below DF × MDL).

Southland Technical Services, Inc.
Environmental Laboratories

7801 Telegraph Road, Suite L
Montebello, CA 90640

Phone (323) 888-0728
Fax (323) 888-1509

07-03-2002

EPA TO14
Batch QA/QC Report

Client:	Blakely Environmental Investigations, Inc.	Lab Job No.:	BL206087
Project:	Angeles Chemical Co.		
Matrix:	Vapor	Lab Sample ID:	ST0614-1
Batch No:	0614-VOAV	Date Analyzed:	06-14-2002

I. MS/MSD Report
Unit: ppb

Compound	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
1,1-Dichloroethene	ND	20	24.5	22.6	122.5	113.0	8.1	30	70-130
Benzene	ND	20	21.4	19.1	107.0	95.5	11.4	30	70-130
Trichloro-ethene	ND	20	17.6	14.8	88.0	74.0	17.3	30	70-130
Toluene	ND	20	19.8	18.5	99.0	92.5	6.8	30	70-130
Chlorobenzene	ND	20	20.2	18.4	101.0	92.0	9.3	30	70-130

II. LCS Result
Unit: ppb

Analyte	LCS Value	True Value	Rec.%	Accept. Limit
1,1-Dichloroethene	58.2	50.0	116.4	80-120
Benzene	57.4	50.0	114.8	80-120
Trichloro-ethene	49.7	50.0	99.4	80-120
Toluene	45.5	50.0	91.0	80-120
Chlorobenzene	56.1	50.0	112.2	80-120

ND: Not Detected (at the specified limit)

SOUTHLAND TECHNICAL SERVICES, INC.

CHAIN OF CUSTODY RECORD

Lab Job Number BL 206087

Client: Blakely Environmental Investigations, Inc.

Address: 9605 Arrow Route, Suite T

Report Attention: Hiram Garcia

Phone: 909 989-9550

Fax: 909 989-9556

Sampled by: H.G.

Project Name/No.:

Project Site: Angeles Chemical Co.

T.A.T. Requested: ☐ Rush 8 12 24 hours ☐ 2-3 days ☒ Normal

Sample Condition: ☐ Chilled ☐ Intact ☐ Sample seals

Client Sample ID	Lab Sample ID	Sample Collect Date	Sample Collect Time	Matrix Type	Sample Preserve	No.,type* & size of container	602/8021 (BTEX,MTBE)	8015M (Gasoline)	8015M (Diesel)	8260B (VOCs)	8260B (Oxygenates, BTEX)	8260B (MTBE Confirm.)	Total/TOLS						Remarks
SV-65 20'	BL 206087-1	6/13/02		Air		1-Summa							X						

Relinquished by: Hiram Garcia	Company: BEII	Date: 6/13/02	Time: 5:34 Pm	Received by:	Company: STS	Container types: A=Air Bag, G=Glass bottle	M=Metal Tube, P=Plastic bottle, V=VOA vial
Relinquished by:	Company:	Date:	Time:	Received by:	Company:		

Southland Tech. Services, Inc.
Telegraph Road, Suite L & K
Montebello, CA 90640
Tel: (323) 888-0728
Fax: (323) 888-1509

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client's expense.
Distribution: WHITE with report, PINK to courier.

ANCHEM1609

Boring / Well Log **Field Supervisor: J. Jazmin** **Sheet 1 of 1**

Project: Former Angeles Chemical
Drilling Company: Layne
Date Drilled: 06-05-02

Well Number: BSB-1
Boring Method: Hollow Stem Auger
Bore Hole Depth: 50'
Water Depth: Not Encountered
Start Time: 0800 Hrs
Finish Time: 1130 Hrs

Depth (feet)	Blow Counts	Sample Number	Organic* Vapor (ppm)	Sample Description	Graphic Log	Well Construction
0			10	CL/ML - CLAY, W/ SILT, GRAY, W/ MOISTURE, NO ODOR		
5			22	CL - CLAY, BROWN, W/ MOISTURE, NO ODOR		
10			19	SP - FINE SAND, W/ SILT & CLAY, BROWN, W/ MOISTURE, NO ODOR		
15			178	SP - POORLY GRADED SAND (FINE), BROWN, W/ MOISTURE, W/ ODOR		
17.5			42	SP - POORLY GRADED SAND (COARSE), BROWN, W/ MOISTURE, W/ ODOR		
20			48	SW - COARSE SAND, W/ GRAVEL, GRAY, W/ MOISTURE, W/ ODOR		
25			50	SW - COARSE SAND, W/ GRAVEL, GRAY, W/ MOISTURE, W/ ODOR		
27.5			306	CL - CLAY, GREENISH GRAY, W/ MOISTURE, W/ ODOR		
30			64	CL - CLAY, BROWN, STIFF, W/ MOISTURE, W/ ODOR		
32.5			79	CL - CLAY, BROWN, W/ MOISTURE, W/ ODOR		
35			96	CL - CLAY, BROWN, W/ MOISTURE, W/ ODOR		
40			48	CL - CLAY, BROWN, STIFF, W/ MOISTURE, W/ ODOR		
45			56	CL - CLAY, BROWN, STIFF, W/ MOISTURE, W/ ODOR		
50						

Boring / Well Log **Field Supervisor:** J. Jazmin **Sheet 1 of 1**

Project: Former Angeles Chemical
Drilling Company: Layne
Date Drilled: 06-06-02

Well Number: BSB-2
Boring Method: Hollow Stem Auger
Bore Hole Depth: 30'
Water Depth: Not Encountered
Start Time: 0810 Hrs
Finish Time: 0930 Hrs

Depth (feet)	Blow Counts	Sample Number	Organic* Vapor (ppm)	Sample Description	Graphic Log	Well Construction
0			5	CL/ML - SILTY CLAY, BROWN, DRY, NO ODOR		
5			0	CL/ML - SILTY CLAY, BROWN, DRY, NO ODOR		
10			5	CL/ML - SILTY CLAY, BROWN, DRY, NO ODOR		
15						
17.5			0.5	SP - SAND, FINE, LIGHT BROWN, DRY, NO ODOR		
20						
21			2	SW - SAND, COARSE, W/ GRAVEL DRY, LIGHT BROWN, WELL-GRADED, NO ODOR		
25			17	CL - SILTY CLAY, BROWN, LIGHT MOISTURE, NO ODOR		
27.5			14	CL/ML - SILTY CLAY, BROWN, DRY, NO ODOR		
30						

ANCHEM1612

Blakely Environmental Inc

Boring / Well Log **Field Supervisor: J. Jazmin** **Sheet 1 of 1**

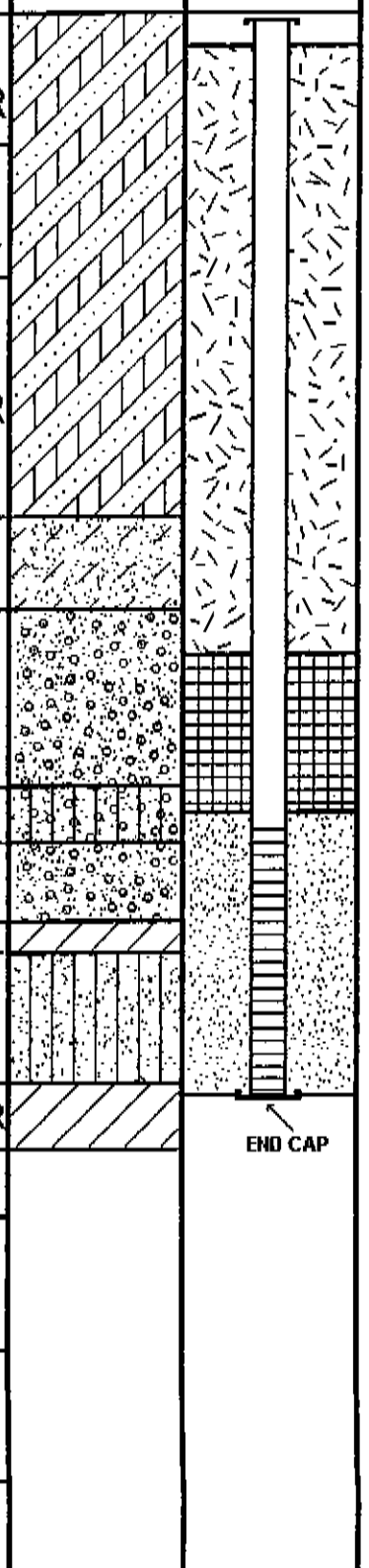
Project: Former Angeles Chemical
Drilling Company: Layne
Date Drilled: 06-06-02

Well Number: MW-8
Boring Method: Hollow Stem Auger
Bore Hole Depth: 42.5'
Water Depth: 31'
Start Time: 1000 Hrs
Finish Time: 1140 Hrs

Depth (feet)	Blow Counts	Sample Number	Organic* Vapor (ppm)	Sample Description
0			6	CL/ML - SILTY, CLAYEY SAND, BROWN, W/ MOISTURE, NO ODOR
5			2	CL/ML - SILTY, CLAYEY SAND, BROWN, W/ MOISTURE, NO ODOR
10			42	CL/ML - SILTY, CLAYEY SAND, BROWN, W/ MOISTURE, NO ODOR
15				
19			60	SP - SAND, FINE, SOME CLAY, W/ MOISTURE, BROWN, W/ ODOR
22.5			13	SW - SAND, COARSE, W/ GRAVEL, BROWN, W/ MOISTURE, W/ ODOR
29			>2000	SW - SILTY SAND, W/ GRAVEL, DARK GRAY, W/ MOISTURE, STRONG ODOR
31			>2000	SW - SAND, COARSE, W/ GRAVEL, DARK GRAY, W/ MOISTURE, W/ ODOR
32.5			1400	CL - CLAY, STIFF, DARK GRAY, W/ MOISTURE, W/ ODOR
34			1600	SP - SILTY SAND, DARK GRAY, W/ MOISTURE, STRONG ODOR
35				
40			700	CL - CLAY, BROWN SATURATED, W/ ODOR
42.5				

Graphic Log

Well Construction



ANCHEM1613

Blakely Environmental Inve

Boring / Well Log **Field Supervisor:** J. Jazmin **Sheet 1 of 1**

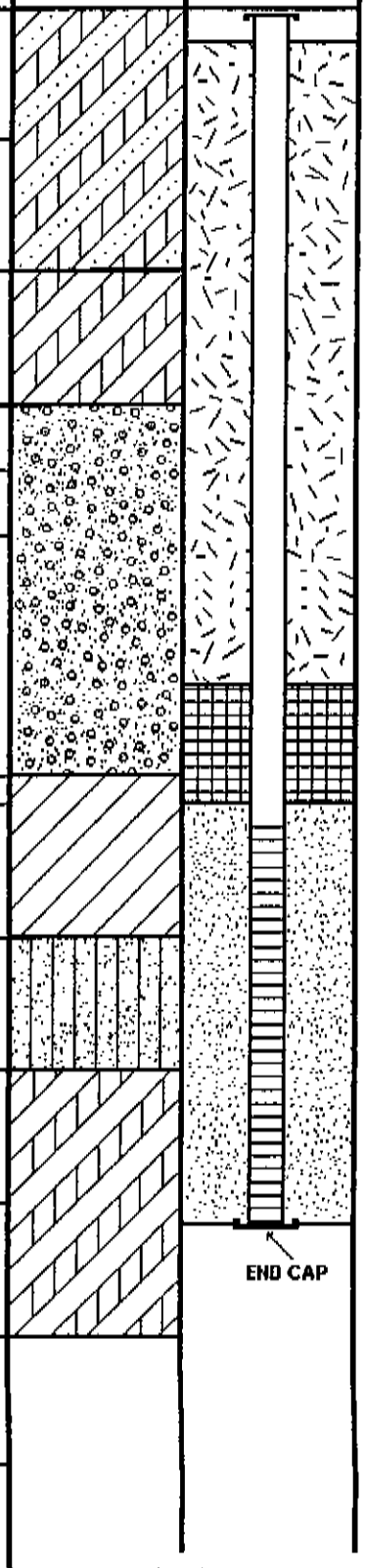
Project: Former Angeles Chemical
Drilling Company: Layne
Date Drilled: 06-07-02

Well Number: MW-9
Boring Method: Hollow Stem Auger
Bore Hole Depth: 50'
Water Depth: 31'
Start Time: 0815 Hrs
Finish Time: 0950 Hrs

Depth (feet)	Blow Counts	Sample Number	Organic* Vapor (ppm)	Sample Description
0			10	CL/ML - SILTY, CLAYEY SAND, BROWN, W/ MOISTURE, NO ODOR
5			3.5	CL/ML - SILTY, CLAYEY SAND, BROWN, W/ MOISTURE, NO ODOR
10			23	CL/ML - SILTY, CLAY, REDDISH BROWN, W/ MOISTURE, NO ODOR
15			1	SW - SAND, FINE TO COARSE, W/ GRAVEL, W/ MOISTURE, NO ODOR
17.5			4.2	SW - SAND, COARSE, W/ GRAVEL, BROWN, DRY, NO ODOR
20			6.4	SW - SAND, FINE TO COARSE, W/ GRAVEL, LIGHT BROWN, DRY, NO ODOR
25				
29			62.6	CL - CLAY, BROWN, W/ MOISTURE, NO ODOR
30			62.4	CL - CLAY, BROWN, STIFF, W/ MOISTURE, NO ODOR
35			64	SF/ML - SILTY SAND, BROWN, W/ MOISTURE, NO ODOR
40			1	CL/ML - SILTY CLAY, BROWN, W/ MOISTURE, NO ODOR
45			1.2	CL/ML - SILTY CLAY, BROWN, W/ MOISTURE, STIFF, NO ODOR
50				

Graphic Log

Well Construction



ANCHEM1614

Blakely Environmental In

0

STS

Southland Technical Services, Inc.
Environmental Laboratories

7801 Telegraph Road, Suite L
Montebello, CA 90640

Phone (323) 888-0728
Fax (323) 888-1509

07-01-2002

Mr. Hiram Garcia
Blakely Environmental Investigations, Inc.
9605 Arrow Highway, Suite T
Rancho Cucamonga, CA 91730

Project: Angeles Chemical Co.
Project Site: Angeles Chemical Co.
Sample Date: 06-05-2002
Lab Job No.: BL206022

Dear Mr. Garcia:

Enclosed please find the analytical report for the sample(s) received by STS Environmental Laboratories on 06-05-2002 and analyzed for the following parameters:

EPA 8015M (Total Petroleum Hydrocarbons)
EPA 8260B (VOCs by GC/MS)
EPA 8270C (Semi VOCs by GC/MS)
EPA 7000 Series for CAM Metals (TTLC)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

STS Environmental Laboratory is certified by CA DHS (Certificate Number 1986). Thank you for giving us the opportunity to serve you. Please feel free to call me at (323) 888-0728 if our laboratory can be of further service to you.

Sincerely,

Roger Wang, Ph. D.
Laboratory Director

Enclosures

This cover letter is an integral part of this analytical report.

STS

Southland Technical Services, Inc.
Environmental Laboratories

7801 Telegraph Road, Suite L
Montebello, CA 90640

Phone (323) 888-0728
Fax (323) 888-1509

07-01-2002

Client:	Blakely Environmental Investigations, Inc.	Lab Job No.:	BL206022
Project:	Angeles Chemical Co.		
Project Site:	Angeles Chemical Co.	Date Sampled:	06-05-2002
Matrix:	Soil	Date Received:	06-05-2002
Batch No.:	EF05-DS1	Date Analyzed:	06-05-2002

EPA Method 8015M (Total Petroleum Hydrocarbons)
Reporting Units: mg/kg (ppm)

Sample ID	Lab ID	DF	C13-C23 (Diesel)	C24-C40 (Heavy Oil)
Method Detection Limit			5	5
Practical Quantification Limit			10	10
Method Blank		1	ND	ND
BSB-1 17.5'	BL206022-3	1	ND	ND
BSB-1 20'	BL206022-4	1	ND	ND
BSB-1 27 5'	BL206022-5	1	ND	ND
BSB-1 35'	BL206022-7	1	ND	ND
BSB-1 40'	BL206022-8	1	ND	ND
BSB-1 50'	BL206022-9	1	ND	ND
BSB-1 1.5'	BL206022-10	1	ND	ND
BSB-1 6.5'	BL206022-11	1	ND	ND
BSB-1 10.5'	BL206022-12	1	ND	ND
BSB-1 28.5'	BL206022-13	1	ND	ND
DUP-1	BL206022-14	1	ND	ND
DUP-2	BL206022-15	1	ND	ND
DUP-3	BL206022-16	1	ND	ND

* Gasoline Range TPH (C4-C12) is obtained from purge & trap analysis.
DF: Dilution Factor (**DF × MDL = Reporting Limit** or RL for the sample).
ND: Not Detected (below RL).

STS

Southland Technical Services, Inc.
Environmental Laboratories

7801 Telegraph Road, Suite L
Montebello, CA 90640

Phone (323) 888-0728
Fax (323) 888-1509

07-01-2002

Client: Blakely Environmental Investigations, Inc.
Project: Angeles Chemical Co.
Project Site: Angeles Chemical Co.
Matrix: Soil
Preparation Method: EPA 5035(For TPH-gasoline)
Batch No.: CF05-GS1

Lab Job No.: BL206022
Date Sampled: 06-05-2002
Date Received: 06-05-2002
Date Prepared: 06-05-2002
Date Analyzed: 06-05-2002

EPA 8015M (Gasoline)
Reporting Units: mg/kg (ppm)

Sample ID	Lab ID	Gasoline (C4-C12)	Method Detection Limit	Reporting Limit
Method Blank		ND	0.5	1.0
BSB-1 5'	BL206022-1	1.6	0.5	1.0
BSB-1 10'	BL206022-2	ND	0.5	1.0
BSB-1 17.5'	BL206022-3	ND	0.5	1.0
BSB-1 20'	BL206022-4	ND	0.5	1.0
BSB-1 27.5'	BL206022-5	ND	0.5	1.0
BSB-1 28'	BL206022-6	1.2	0.5	1.0
BSB-1 35'	BL206022-7	ND	0.5	1.0
BSB-1 40'	BL206022-8	ND	0.5	1.0
BSB-1 50'	BL206022-9	ND	0.5	1.0
DUP-1	BL206022-14	ND	0.5	1.0
DUP-3	BL206022-16	ND	0.5	1.0

ND: Not Detected (at the specified limit)

STS

Southland Technical Services, Inc.
Environmental Laboratories

7801 Telegraph Road, Suite L
Montebello, CA 90640

Phone (323) 888-0728
Fax (323) 888-1509

07-01-2002

Client:	Blakely Environmental Investigations, Inc.	Lab Job No.:	BL206022
Project:	Angeles Chemical Co.		
Project Site:	Angeles Chemical Co.	Date Sampled:	06-05-2002
Matrix:	Water	Date Received:	06-05-2002
Preparation Method: EPA 5030 (For TPH-gasoline)		Date Prepared:	06-05-2002
Batch No.:	CF12-GW1	Date Analyzed:	06-12-2002

EPA 8015M (Gasoline)
Reporting Units: mg/L (ppm)

Sample ID	Lab ID	Gasoline (C4-C12)	Method Detection Limit	Reporting Limit
Method Blank		ND	0.05	0.05
Trip Blank	BL206022-17	ND	0.05	0.05

ND: Not Detected (at the specified limit)

STS

Southland Technical Services, Inc.
Environmental Laboratories

7801 Telegraph Road, Suite L
Montebello, CA 90640

Phone (323) 888-0728
Fax (323) 888-1509

07-01-2002

Client:	Blakely Environmental Investigations, Inc.	Lab Job No.:	BL206022
Project:	Angeles Chemical Co.		
Project Site:	Angeles Chemical Co.	Date Sampled:	06-05-2002
Matrix:	Soil	Date Received:	06-05-2002
Batch No.:	0606-M1	Date Analyzed:	06-06-2002

EPA 7000 Series for CAM Metals (TTLC)
Reporting Units: mg/kg (ppm)

Element	EPA Method	Method Blank	BSB-1 1.5' BL206022-10	BSB-1 6.5' BL206022-11	BSB-1 10.5' BL206022-12	MDL	PQL
Antimony (Sb)	7040	ND	ND	ND	ND	5	10
Arsenic (As)	7060	ND	ND	8.8	2.4	0.3	0.3
Barium (Ba)	7080	ND	208	454	241	2.5	5.0
Beryllium (Be)	7090	ND	ND	ND	ND	1.3	2.5
Cadmium (Cd)	7130	ND	ND	ND	ND	1.3	2.5
Chromium (Cr)	7190	ND	17.6	22.3	20.5	2.5	5.0
Cobalt (Co)	7200	ND	10.2	15	15.8	2.5	5.0
Copper (Cu)	7210	ND	20.2	26.6	17.4	2.5	5.0
Lead (Pb)	7420	ND	47	9	11.2	2.5	5.0
Mercury (Hg)	7471	ND	ND	ND	ND	ND	0.1
Molybdenum (Mo)	7480	ND	ND	ND	ND	2.5	5.0
Nickel (Ni)	7520	ND	27	36.8	32.4	2.5	5.0
Selenium (Se)	7740	ND	ND	ND	ND	0.3	0.3
Silver (Ag)	7760	ND	ND	ND	ND	2.5	5.0
Thallium (Tl)	7840	ND	ND	ND	ND	5.0	10
Vanadium (V)	7910	ND	46	56	51	2.5	5.0
Zinc (Zn)	7950	ND	80	78	62	2.5	5.0

ND: Not Detected (at the specified limit).

STS

Southland Technical Services, Inc.

Environmental Laboratories

7801 Telegraph Road, Suite L
Montebello, CA 90640

Phone (323) 888-0728
Fax (323) 888-1509

Client: Blakely Environmental Investigations, Inc. Lab Job No.: BL206022 Date Reported: 07-01-2002
Project:Angeles Chemical Co. Matrix: Soil Date Sampled: 06-05-2002

EPA 8260B (VOCs by GC/MS, Page 1 of 2) Reporting Unit: ppb

DATE ANALYZED			06-06	06-06-02	06-06-02	06-06-02	06-06-02	06-06-02	
DILUTION FACTOR				1	5	1	5	10	
LAB SAMPLE I.D.				BL206022-1	BL206022-2	BL206022-3	BL206022-4	BL206022-5	
CLIENT SAMPLE I.D.				BSB-1 5'	BSB-1 10'	BSB-1 17.5'	BSB-1 20'	BSB-1 27.5'	
COMPOUND	**MDL**	**PQL**	**MB**						
Dichlorodifluoromethane	5	10	ND	ND	ND	ND	ND	ND	
Chloromethane	5	10	ND	ND	ND	ND	ND	ND	
Vinyl Chloride	5	10	ND	ND	ND	ND	ND	ND	
Bromomethane	5	10	ND	ND	ND	ND	ND	ND	
Chloroethane	5	10	ND	ND	ND	ND	ND	ND	
Trichlorofluoromethane	5	10	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethene	5	5	ND	ND	ND	ND	37.5	222	
Iodomethane	5	5	ND	ND	ND	ND	ND	ND	
Methylene Chloride	5	5	ND	ND	ND	ND	ND	ND	
trans-1,2-Dichloroethene	5	5	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethane	5	5	ND	5.7	35	ND	112	305	
2,2-Dichloropropane	5	5	ND	ND	ND	ND	ND	ND	
cis-1,2-Dichloroethene	5	5	ND	19.5	50	ND	178	365	
Bromochloromethane	5	5	ND	ND	ND	ND	ND	ND	
Chloroform	5	5	ND	ND	ND	ND	ND	ND	
1,2-Dichloroethane	5	5	ND	ND	ND	ND	ND	ND	
1,1,1-Trichloroethane	5	5	ND	ND	ND	ND	115	550	
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	
1,1-Dichloropropene	5	5	ND	ND	ND	ND	ND	ND	
Benzene	2	5	ND	ND	ND	ND	ND	ND	
Trichloroethene	5	5	ND	ND	ND	ND	ND	ND	
1,2-Dichloropropane	5	5	ND	ND	ND	ND	ND	ND	
Bromodichloromethane	5	5	ND	ND	ND	ND	ND	ND	
Dibromomethane	5	5	ND	ND	ND	ND	ND	ND	
trans-1,3-Dichloropropene	5	5	ND	ND	ND	ND	ND	ND	
cis-1,3-Dichloropropene	5	5	ND	ND	ND	ND	ND	ND	
1,1,2-Trichloroethane	5	5	ND	ND	ND	ND	ND	ND	
1,3-Dichloropropane	5	5	ND	ND	ND	ND	ND	ND	
Dibromochloromethane	5	5	ND	ND	ND	ND	ND	ND	
2-Chloroethylvinyl ether	10	10	ND	ND	ND	ND	ND	ND	
Bromoform	5	5	ND	ND	ND	ND	ND	ND	
Isopropylbenzene	5	5	ND	ND	ND	ND	ND	ND	
Bromobenzene	5	5	ND	ND	ND	ND	ND	ND	

STS

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Client: Blakely Environmental Investigations, Inc. Lab Job No.: BL206022 Date Reported: 07-01-2002

EPA 8260B (VOCs by GC/MS, Page 2 of 2) Reporting Unit: (ppb)

COMPOUND	MDL	PQL	MB	BSB-1 5'	BSB-1 10'	BSB-1 17.5'	BSB-1 20'	BSB-1 27.5'	
Toluene	2	5	ND	ND	ND	ND	ND	ND	
Tetrachloroethene	5	5	ND	ND	ND	ND	ND	ND	
1,2-Dibromoethane(EDB)	5	5	ND	ND	ND	ND	ND	ND	
Chlorobenzene	5	5	ND	ND	ND	ND	ND	ND	
1,1,1,2-Tetrachloroethan	5	5	ND	ND	ND	ND	ND	ND	
Ethylbenzene	2	5	ND	ND	ND	ND	ND	ND	
Total Xylenes	2	5	ND	ND	ND	ND	ND	ND	
Styrene	5	5	ND	ND	ND	ND	ND	ND	
1,1,2,2-Tetrachloroethan	5	5	ND	ND	ND	ND	ND	ND	
1,2,3-Trichloropropane	5	5	ND	ND	ND	ND	ND	ND	
n-Propylbenzene	5	5	ND	ND	ND	ND	ND	ND	
2-Chlorotoluene	5	5	ND	ND	ND	ND	ND	ND	
4-Chlorotoluene	5	5	ND	ND	ND	ND	ND	ND	
1,3,5-Trimethylbenzene	5	5	ND	ND	ND	ND	ND	ND	
tert-Butylbenzene	5	5	ND	ND	ND	ND	ND	ND	
1,2,4-Trimethylbenzene	5	5	ND	ND	ND	ND	ND	ND	
Sec-Butylbenzene	5	5	ND	ND	ND	ND	ND	ND	
1,3-Dichlorobenzene	5	5	ND	ND	ND	ND	ND	ND	
p-Isopropyltoluene	5	5	ND	ND	ND	ND	ND	ND	
1,4-Dichlorobenzene	5	5	ND	ND	ND	ND	ND	ND	
1,2-Dichlorobenzene	5	5	ND	ND	ND	ND	ND	ND	
n-Butylbenzene	5	5	ND	ND	ND	ND	ND	ND	
1,2,4-Trichlorobenzene	5	5	ND	ND	ND	ND	ND	ND	
1,2-Dibromo-3-Chloropropane	5	5	ND	ND	ND	ND	ND	ND	
Hexachlorobutadiene	5	5	ND	ND	ND	ND	ND	ND	
Naphthalene	5	5	ND	ND	ND	ND	ND	ND	
1,2,3-Trichlorobenzene	5	5	ND	ND	ND	ND	ND	ND	
Acetone	25	50	ND	ND	ND	ND	ND	ND	
2-Butanone (MEK)	25	50	ND	ND	ND	ND	ND	ND	
Carbon disulfide	25	50	ND	ND	ND	ND	ND	ND	
4-Methyl-2-pentanone	25	50	ND	ND	ND	ND	ND	ND	
2-Hexanone	25	50	ND	ND	ND	ND	ND	ND	
Vinyl Acetate	25	50	ND	ND	ND	ND	ND	ND	
MTBE	5	5	ND	ND	ND	ND	ND	ND	
ETBE	5	5	ND	ND	ND	ND	ND	ND	
DIPE	5	5	ND	ND	ND	ND	ND	ND	
TAME	5	5	ND	ND	ND	ND	ND	ND	
T-Butyl Alcohol	20	30	ND	ND	ND	ND	ND	ND	

MDL=Method Detection Limit; MB=Method Blank; ND=Not Detected (below DF × PQL).

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Client: Blakely Environmental Investigations, Inc. Lab Job No.: BL206022 Date Reported: 07-01-2002
Project: Angeles Chemical Co. Matrix: Soil Date Sampled: 06-05-2002

EPA 8260B (VOCs by GC/MS, Page 1 of 2) Reporting Unit: ppb

DATE ANALYZED			06-06	06-06-02	06-06-02	06-06-02	06-06-02	06-06-02
DILUTION FACTOR				10	10	10	10	10
LAB SAMPLE I.D.				BL206022-6	BL206022-7	BL206022-8	BL206022-9	BL206022-15
CLIENT SAMPLE I.D.				BSB-1 28'	BSB-1 35'	BSB-1 40'	BSB-1 45'	DUP 2
COMPOUND	**MDL**	**PQL**	**MB**					
Dichlorodifluoromethane	5	10	ND	ND	ND	ND	ND	ND
Chloromethane	5	10	ND	ND	ND	ND	ND	ND
Vinyl Chloride	5	10	ND	ND	ND	ND	ND	ND
Bromomethane	5	10	ND	ND	ND	ND	ND	ND
Chloroethane	5	10	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	5	10	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	5	ND	110	100	132	80	130
Iodomethane	5	5	ND	ND	ND	ND	ND	ND
Methylene Chloride	5	5	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	5	ND	745	205	196	148	150
2,2-Dichloropropane	5	5	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	5	ND	1,580	308	270	125	185
Bromochloromethane	5	5	ND	ND	ND	ND	ND	ND
Chloroform	5	5	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	5	5	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	5	ND	230	95	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	5	5	ND	ND	ND	ND	ND	ND
Benzene	2	5	ND	ND	ND	ND	ND	ND
Trichloroethene	5	5	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	5	5	ND	ND	ND	ND	ND	ND
Bromodichloromethane	5	5	ND	ND	ND	ND	ND	ND
Dibromomethane	5	5	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	5	5	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	5	5	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	5	5	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	5	5	ND	ND	ND	ND	ND	ND
Dibromochloromethane	5	5	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	10	10	ND	ND	ND	ND	ND	ND
Bromoform	5	5	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5	5	ND	ND	ND	ND	ND	ND
Bromobenzene	5	5	ND	ND	ND	ND	ND	ND

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Client: Blakely Environmental Investigations, Inc. Lab Job No.: BL206022 Date Reported: 07-01-2002

EPA 8260B (VOCs by GC/MS, Page 2 of 2) Reporting Unit: (ppb)

COMPOUND	MDL	PQL	MB	BSB-1 28'	BSB-1 35'	BSB-1 40'	BSB-1 45'	DUP 2
Toluene	2	5	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	5	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane(EDB)	5	5	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	5	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethan	5	5	ND	ND	ND	ND	ND	ND
Ethylbenzene	2	5	ND	ND	ND	ND	ND	ND
Total Xylenes	2	5	ND	130	ND	ND	ND	ND
Styrene	5	5	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethan	5	5	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	5	5	ND	ND	ND	ND	ND	ND
n-Propylbenzene	5	5	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	5	5	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	5	5	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	5	5	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	5	5	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	5	5	ND	120	ND	ND	ND	ND
Sec-Butylbenzene	5	5	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	5	5	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	5	5	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	5	5	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	5	5	ND	ND	ND	ND	ND	ND
n-Butylbenzene	5	5	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5	5	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane	5	5	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	5	5	ND	ND	ND	ND	ND	ND
Naphthalene	5	5	ND	85	ND	ND	ND	ND
1,2,3-Trichlorobenzene	5	5	ND	ND	ND	ND	ND	ND
Acetone	25	50	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	25	50	ND	ND	ND	ND	ND	ND
Carbon disulfide	25	50	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	25	50	ND	ND	ND	ND	ND	ND
2-Hexanone	25	50	ND	ND	ND	ND	ND	ND
Vinyl Acetate	25	50	ND	ND	ND	ND	ND	ND
MTBE	5	5	ND	ND	ND	ND	ND	ND
ETBE	5	5	ND	ND	ND	ND	ND	ND
DIPE	5	5	ND	ND	ND	ND	ND	ND
TAME	5	5	ND	ND	ND	ND	ND	ND
T-Butyl Alcohol	20	30	ND	ND	ND	ND	ND	ND

MDL=Method Detection Limit; MB=Method Blank; ND=Not Detected (below DF × PQL).

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Client: Blakely Environmental Investigations, Inc. Lab Job No.: BL206022 Date Reported: 07-01-2002
Project:Angeles Chemical Co. Matrix: Water Date Sampled: 06-05-2002

EPA 8260B (VOCs by GC/MS, Page 1 of 2) Reporting Unit: ppb

DATE ANALYZED			06-06	06-06-02				
DILUTION FACTOR				1				
LAB SAMPLE I.D.				BL206022-17				
CLIENT SAMPLE I.D.				Trip Blank				
COMPOUND	**MDL**	**PQL**	**MB**					
Dichlorodifluoromethane	5	5	ND	ND				
Chloromethane	5	5	ND	ND				
Vinyl Chloride	2	2	ND	ND				
Bromomethane	5	5	ND	ND				
Chloroethane	5	5	ND	ND				
Trichlorofluoromethane	5	5	ND	ND				
1,1-Dichloroethene	5	5	ND	ND				
Iodomethane	5	5	ND	ND				
Methylene Chloride	5	5	ND	ND				
trans-1,2-Dichloroethene	5	5	ND	ND				
1,1-Dichloroethane	5	5	ND	ND				
2,2-Dichloropropane	5	5	ND	ND				
cis-1,2-Dichloroethene	5	5	ND	ND				
Bromochloromethane	5	5	ND	ND				
Chloroform	5	5	ND	ND				
1,2-Dichloroethane	5	5	ND	ND				
1,1,1-Trichloroethane	5	5	ND	ND				
Carbon tetrachloride	5	5	ND	ND				
1,1-Dichloropropene	5	5	ND	ND				
Benzene	1	1	ND	ND				
Trichloroethene	5	5	ND	ND				
1,2-Dichloropropane	5	5	ND	ND				
Bromodichloromethane	5	5	ND	ND				
Dibromomethane	5	5	ND	ND				
trans-1,3-Dichloropropene	5	5	ND	ND				
cis-1,3-Dichloropropene	5	5	ND	ND				
1,1,2-Trichloroethane	5	5	ND	ND				
1,3-Dichloropropane	5	5	ND	ND				
Dibromochloromethane	5	5	ND	ND				
2-Chloroethylvinyl ether	5	5	ND	ND				
Bromoform	5	5	ND	ND				
Isopropylbenzene	5	5	ND	ND				
Bromobenzene	5	5	ND	ND				

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Client: Blakely Environmental Investigations, Inc. Lab Job No.: BL206022 Date Reported: 07-01-2002

EPA 8260B (VOCs by GC/MS, Page 2 of 2) Reporting Unit: ppb

COMPOUND	MDL	PQL	MB	Trip Blank				
Toluene	1	1	ND	ND				
Tetrachloroethene	5	5	ND	ND				
1,2-Dibromoethane(EDB)	5	5	ND	ND				
Chlorobenzene	5	5	ND	ND				
1,1,1,2-Tetrachloroethan	5	5	ND	ND				
Ethylbenzene	1	1	ND	ND				
Total Xylenes	2	2	ND	ND				
Styrene	5	5	ND	ND				
1,1,2,2-Tetrachloroethan	5	5	ND	ND				
1,2,3-Trichloropropane	5	5	ND	ND				
n-Propylbenzene	5	5	ND	ND				
2-Chlorotoluene	5	5	ND	ND				
4-Chlorotoluene	5	5	ND	ND				
1,3,5-Trimethylbenzene	5	5	ND	ND				
tert-Butylbenzene	5	5	ND	ND				
1,2,4-Trimethylbenzene	5	5	ND	ND				
Sec-Butylbenzene	5	5	ND	ND				
1,3-Dichlorobenzene	5	5	ND	ND				
p-Isopropyltoluene	5	5	ND	ND				
1,4-Dichlorobenzene	5	5	ND	ND				
1,2-Dichlorobenzene	5	5	ND	ND				
n-Butylbenzene	5	5	ND	ND				
1,2,4-Trichlorobenzene	5	5	ND	ND				
1,2-Dibromo-3-Chloropropane	5	5	ND	ND				
Hexachlorobutadiene	5	5	ND	ND				
Naphthalene	5	5	ND	ND				
1,2,3-Trichlorobenzene	5	5	ND	ND				
Acetone	25	25	ND	ND				
2-Butanone (MEK)	25	25	ND	ND				
Carbon disulfide	25	25	ND	ND				
4-Methyl-2-pentanone	25	25	ND	ND				
2-Hexanone	25	25	ND	ND				
Vinyl Acetate	25	25	ND	ND				
MTBE	2	2	ND	ND				
ETBE	2	2	ND	ND				
DIPE	2	2	ND	ND				
TAME	2	2	ND	ND				
T-Butyl Alcohol	10	20	ND	ND				

MDL=Method Detection Limit; MB=Method Blank; ND=Not Detected (below DF × MDL).

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Client: Blakely Environmental Investigations, Inc.
Project: Angeles Chemical Co.

Lab Job No.: BL206022
Matrix: Soil

Date Reported: 07-01-2002
Date Sampled: 06-05-2002

EPA 8270C (Semi-VOCs by GC/MS, Page 1 of 2)

Reporting Unit: mg/kg (ppm)

DATE ANALYZED			06-14	06-14-02	06-14-02	06-14-02		
DATE EXTRACTED			06-14	06-14-02	06-14-02	06-14-02		
EXTRACTION METHOD			3550B	3550B	3550B	3550B		
DILUTION FACTOR			1	1	1	1		
LAB SAMPLE I.D.				BL206022-10	BL206022-11	BL206022-12		
CLIENT SAMPLE I.D.				BSB-1 1.5'	BSB-1 6.5'	BSB-1 10.5'		
COMPOUND	**MDL**	**PQL**	**MB**					
Phenol	0.25	0.50	ND	ND	ND	ND		
Bis(2-chloroethyl) ether	0.25	0.50	ND	ND	ND	ND		
2-Chlorophenol	0.25	0.50	ND	ND	ND	ND		
1,3-Dichlorobenzene	0.25	0.50	ND	ND	ND	ND		
1,4-Dichlorobenzene	0.25	0.50	ND	ND	ND	ND		
Benzyl alcohol	0.25	0.50	ND	ND	ND	ND		
1,2-Dichlorobenzene	0.25	0.50	ND	ND	ND	ND		
2-Methylphenol (o-cresol)	0.25	0.50	ND	ND	ND	ND		
Bis(2-chloroisopropyl)ether	0.25	0.50	ND	ND	ND	ND		
N-Nitrosodi-n-propylamine	0.25	0.50	ND	ND	ND	ND		
4-Methylphenol (p-cresol)	0.25	0.50	ND	ND	ND	ND		
Hexachloroethane	0.25	0.50	ND	ND	ND	ND		
Nitrobenzene	0.25	0.50	ND	ND	ND	ND		
Isophorone	0.25	0.50	ND	ND	ND	ND		
2-Nitrophenol	0.25	0.50	ND	ND	ND	ND		
2,4-Dimethylphenol	0.25	0.50	ND	ND	ND	ND		
Bis(2-chloroethoxy)methane	0.25	0.50	ND	ND	ND	ND		
2,4-Dichlorophenol	0.25	0.50	ND	ND	ND	ND		
Benzoic acid	0.25	0.50	ND	ND	ND	ND		
1,2,4-Trichlorobenzene	0.25	0.50	ND	ND	ND	ND		
Naphthalene	0.25	0.50	ND	ND	ND	ND		
4-Chloroaniline	0.25	0.50	ND	ND	ND	ND		
Hexachlorobutadiene	0.25	0.50	ND	ND	ND	ND		
4-Chloro-3-methylphenol	0.25	0.50	ND	ND	ND	ND		
2-Methylnaphthalene	0.25	0.50	ND	ND	ND	ND		
Hexachlorocyclopentadiene	0.25	0.50	ND	ND	ND	ND		
2,4,6-Trichlorophenol	0.25	0.50	ND	ND	ND	ND		
2,4,5-Trichlorophenol	0.25	0.50	ND	ND	ND	ND		
2-Chloronaphthalene	0.25	0.50	ND	ND	ND	ND		
2-Nitroaniline	0.25	0.50	ND	ND	ND	ND		
Dimethylphthalate	0.25	0.50	ND	ND	ND	ND		

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Client: Blakely Environmental Investigations, Inc. Lab Job No.: BL206022 Date Reported: 07-01-2002
Project: Angeles Chemical Co. Matrix: Soil Date Sampled: 06-05-2002

EPA 8270C (Semi-VOCs by GC/MS, Page 2 of 2) Reporting Unit: mg/kg(ppm)

CLIENT SAMPLE I.D.				BSB-1 1.5'	BSB-1 6.5'	BSB-1 10.5'		
COMPOUND	MDL	PQL	MB					
Acenaphthylene	0.25	0.50	ND	ND	ND	ND		
2,6-Dinitrotoluene	0.25	0.50	ND	ND	ND	ND		
3-Nitroaniline	0.25	0.50	ND	ND	ND	ND		
Acenaphthene	0.25	0.50	ND	ND	ND	ND		
2,4-Dinitrophenol	0.25	0.50	ND	ND	ND	ND		
Dibenzofuran	0.25	0.50	ND	ND	ND	ND		
4-Nitrophenol	0.25	0.50	ND	ND	ND	ND		
2,4-Dinitrotoluene	0.25	0.50	ND	ND	ND	ND		
Fluorene	0.25	0.50	ND	ND	ND	ND		
Diethylphthalate	0.25	0.50	ND	ND	ND	ND		
4-Chlorophenyl phenyl ether	0.25	0.50	ND	ND	ND	ND		
4-Nitroaniline	0.25	0.50	ND	ND	ND	ND		
4,6-Dinitro-2-methylphenol	0.25	0.50	ND	ND	ND	ND		
N-Nitrosodiphenylamine	0.25	0.50	ND	ND	ND	ND		
4-Bromophenyl-phenyl ether	0.25	0.50	ND	ND	ND	ND		
Hexachlorobenzene	0.25	0.50	ND	ND	ND	ND		
Pentachlorophenol	0.25	0.50	ND	ND	ND	ND		
Phenanthrene	0.25	0.50	ND	ND	ND	ND		
Anthracene	0.25	0.50	ND	ND	ND	ND		
Di-n-butylphthalate	0.25	0.50	ND	ND	ND	ND		
Fluoranthene	0.25	0.50	ND	ND	ND	ND		
Pyrene	0.25	0.50	ND	ND	ND	ND		
Butyl benzylphthalate	0.25	0.50	ND	ND	ND	ND		
Benzo(a)anthracene	0.25	0.50	ND	ND	ND	ND		
3,3'-Dichlorobenzidine	0.25	0.50	ND	ND	ND	ND		
Chrysene	0.25	0.50	ND	ND	ND	ND		
Bis(2-Ethylhexyl)phthalate	0.25	0.50	ND	ND	ND	ND		
Di-n-octylphthalate	0.25	0.50	ND	ND	ND	ND		
Benzo(b)fluoranthene	0.25	0.50	ND	ND	ND	ND		
Benzo(k)fluoranthene	0.25	0.50	ND	ND	ND	ND		
Benzo(a)pyrene	0.25	0.50	ND	ND	ND	ND		
Indeno(1,2,3-cd)pyrene	0.25	0.50	ND	ND	ND	ND		
Dibenz(a,h)anthracene	0.25	0.50	ND	ND	ND	ND		
Benzo(g,h,i)perylene	0.25	0.50	ND	ND	ND	ND		

MB=Method Blank; MDL=Method Detection Limit; ND=Not Detected (below DF × MDL).

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07-01-2002

EPA 8260B
Batch QA/QC Report

Client:	Blakely Environmental Investigations, Inc.	Lab Job No.:	BL206022
Project:	Angeles Chemical Co.		
Matrix:	Soil	Lab Sample ID:	D206040-5
Batch No:	0606-VOAS	Date Analyzed:	06-06-2002

I. MS/MSD Report
Unit: ppb

Compound	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
1,1-Dichloroethene	ND	20	20.7	18.1	103.5	90.5	13.4	30	70-130
Benzene	ND	20	19.2	15.7	96.0	78.5	20.1	30	70-130
Trichloro-ethene	ND	20	20.5	17.1	102.5	85.5	18.1	30	70-130
Toluene	ND	20	19.4	15.8	97.0	79.0	20.5	30	70-130
Chlorobenzene	ND	20	19.6	16.0	98.0	80.0	20.2	30	70-130

II. LCS Result
Unit: ppb

Analyte	LCS Value	True Value	Rec.%	Accept. Limit
1,1-Dichloroethene	21.2	20.0	106.0	80-120
Benzene	17.8	20.0	89.0	80-120
Trichloro-ethene	21.4	20.0	107.0	80-120
Toluene	18.9	20.0	94.5	80-120
Chlorobenzene	20.0	20.0	100.0	80-120

ND: Not Detected.

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07-01-2002

EPA 8270C
Batch QA/QC Report

Client: Blakely Environmental Investigations, Inc.
Project: Angeles Chemical Co.
Matrix: Soil
Batch No: 0614-BNA

Lab Job No.: BL206022
Lab Sample ID: 06-03-02
Date Analyzed: 06-14-02

MS/MSD Report
Unit: ppm

Compound	MB	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
Phenol	ND	10	7.96	7.67	79.6	76.7	3.7	40	12-130
2-Chlorophenol	ND	10	7.17	7.11	71.7	71.1	0.8	40	24-134
1,4-Dichloro-benzene	ND	5.0	3.23	3.65	64.6	73.0	12.2	40	36-124
n-Nitroso-di-n-propylamine	ND	5.0	3.97	4.40	79.4	88.0	10.3	40	41-230
1,2,4-Trichlorobenzene	ND	5.0	3.22	4.02	64.4	80.4	22.1	40	44-142
4-Chloro-3-methylphenol	ND	10	6.08	7.46	60.8	74.6	20.4	40	22-147
Acenaphthene	ND	5.0	3.70	4.04	74.0	80.8	8.8	40	47-145
4-Nitrophenol	ND	10	7.88	6.77	78.8	67.7	15.2	58	12-132
2,4-Dinitro-toluene	ND	5.0	3.57	4.46	71.4	89.2	22.2	40	39-139
Pentachloro-phenol	ND	10	8.05	12.3	80.5	123.0	41.8	51	14-176
Pyrene	ND	5.0	2.44	2.48	48.8	49.6	1.6	30	26-130

ND: Not Detected

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Environmental Laboratories

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Montebello, CA 90640

Phone (323) 888-0728
Fax (323) 888-1509

07-01-2002

EPA 8015M (TPH)
Batch QA/QC Report

Client:	Blakely Environmental Investigations, Inc.	Lab Job No.:	BL206022
Project:	Angeles Chemical Co.		
Matrix:	Soil	Sample ID:	BL206022-3
Batch No:	EF05-DS1	Date Analyzed:	06-05-2002

I. MS/MSD Report
Unit: ppm

Compound	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
TPH-d	ND	200	210	206	105.0	103.0	1.9	30	70-130

II. LCS Result
Unit: ppm

Compound	LCS Report Value	True Value	Rec.%	Accept. Limit
TPH-d	209	200	104.5	80-120

ND: Not Detected (at the specified limit)

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07-01-2002

EPA 8015M (TPH)
Batch QA/QC Report

Client:	Blakely Environmental Investigations, Inc.	Lab Job No.:	BL206022
Project:	Angeles Chemical Co.		
Matrix:	Soil	Sample ID:	BL206022-3
Batch No:	CF05-GS1	Date Analyzed:	06-05-2002

I. MS/MSD Report
Unit: ppb

Compound	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
TPH-Gasoline	ND	1000	1050	1100	105.0	110.0	4.7	30	70-130

II. LCS Result
Unit: ppb

Compound	LCS Report Value	True Value	Rec.%	Accept. Limit
TPH-Gasoline	1020	1000	102.0	80-120

ND: Not Detected (at the specified limit)

SOUTHLAND TECHNICAL SERVICES, INC.

CHAIN OF CUSTODY RECORD

Lab Job Number BL206022

Client: Blakely Environmental Investigations, Inc.

Address: 9605 Arrow Route, Suite T, Rancho Cucamonga, CA 91730

Report Attention: | Phone: 909 989-9550 | Fax: 909 989-9556 | Sampled by: HG.

Project Name/No.: | Project Site: Angeles Chemical Co.

T.A.T. Requested: ☐ Rush 8 12 24 hours ☐ 2-3 days ☒ Normal

Sample Condition: ☒ Chilled ☐ Intact ☐ Sample seals

Client Sample ID	Lab Sample ID	Sample Collect Date	Sample Collect Time	Matrix Type	Sample Preserve	No.,type* & size of container	602/8021 (BTEX,MTBE)	8015M (Gasoline)	8015M (Diesel) toil	8260B (VOCs)	8260B (Oxygenates, BTEX)	8260B (MTBE Confirm.)	CAM 17 metals	8270					Remarks
BSB-1 50'	BL206022-9	6/3/02				1-40mL		X		X									
BSB-1 50'	-9	"				2-40mL		X		X									
BSB-1 1.5'	-10	"		Soil		1-3"x6"			X				X	X					
BSB-1 6.5'	-11	"		"		"			X				X	X					
BSB-1 10.5'	-12	"		"		"			X				X	X					
BSB-1 17.5'	-3	"		"		"			X				X	X					
BSB-1 20'	-4	"		"		"			X				X	X					
BSB-1 27.5'	-5	"		"		"			X				X	X					
BSB-1 28.5'	-13	"		"		"			X				X	X					
BSB-1 35'	-7	"		"		"			X				X	X					
BSB-1 40'	-8	"		"		"			X				X	X					
BSB-1 50'	-9	"		"		"			X				X	X					
Dup1	-14	"				1-40mL		X											
Dup2	-15	"				1-"				X									
Dup 3	-16	"				1-"		X											
Field Trip Blank	-17	"				1-"		X		X									~~Field Trip Blank~~

Relinquished by	Company	Date	Time	Received by	Company
Thom Hayes	BEI	6/3/02	12:50	[illegible]	STS
Relinquished by	Company	Date	Time	Received by	Company

Container types: M=Metal Tube, A=Air Bag, P=Plastic bottle, G=Glass bottle, V=VOA vial

Southland Tech. Services, Inc.
11 Telegraph Road, Suite L & K
Montebello, CA 90640
Tel: (323) 888-0728
Fax: (323) 888-1509

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client's expense.
Distribution: WHITE with report, PINK to courier.

ANCHEM1633

SOUTHLAND TECHNICAL SERVICES, INC.

CHAIN OF CUSTODY RECORD

Lab Job Number BL206022

Client: Blakely Environmental Investigations, Inc.

Address: 9605 Arrow Route, Suite T, Rancho Cucamonga, CA 91730

Report Attention:

Phone: 909 989-9550

Fax: 909 989 9556

Sampled by: H.G.

Project Name/No.:

Project Site: Angeles Chemical Co.

T.A.T. Requested: ☐ Rush 8 12 24 hours ☐ 2-3 days ☒ Normal

Sample Condition: ☒ Chilled ☒ Intact ☐ Sample seals

Client Sample ID	Lab Sample ID	Sample Collect Date	Sample Collect Time	Matrix Type	Sample Preserve	No.,type* & size of container	602/8021 (BTEX,MTBE)	8015M (Gasoline)	8015M (Diesel) + oil	8260B (VOCs)	8260B (Oxygenates, BTEX)	8260B (MTBE Confirm.)	8270 SVOCs	CAM 17 Metals					Remarks
BSB-1 5'	BL206022-1	6/5/02			Methanol	1-40ml		X		X									
BSB-1 5'	-1	"				2-"		X		X									
BSB-1 10'	-2	"				1-"		X		X									
BSB-1 10'	-2	"				2-"		X		X									
BSB-1 17.5'	-3	"				1-"		X		X									
BSB-1 17.5	-3	"				2-"		X		X									
BSB-1 20'	-4	"				1-"		X		X									
BSB-1 20'	-4	"				2-"		X		X									
BSB-1 27.5'	-5	"				1-"		X		X									
BSB-1 27.5'	-5	"				2-"		X		X									
BSB-1 28'	-6	"				1-"		X		X									
BSB-1 28'	-6	"				2-"		X		X									
BSB-1 35'	-7	"				1-"		X		X									
BSB-1 35'	-7	"				2-"		X		X									
BSB-1 40'	-8	"				1-"		X		X									
SB-1 40'	-8	"				2-"		X		X									

Relinquished by	Company	Date	Time	Received by	Company
[illegible]	BEI	6/7/02	1250	[illegible]	STS
Relinquished by	Company	Date	Time	Received by	Company

Container types: M=Metal Tube, A=Air Bag, P=Plastic bottle, G=Glass bottle, V=VOA vial

Southland Tech. Services, Inc.
[illegible] Telegraph Road, Suite L & K
[illegible]tebello, CA 90640
Tel: (323) 888-0728
Fax: (323) 888-1509

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client's expense.
Distribution: WHITE with report, PINK to courier.

ANCHEM1634

STS

Southland Technical Services, Inc.
Environmental Laboratories

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Montebello, CA 90640

Phone (323) 888-0728
Fax (323) 888-1509

07-01-2002

Mr. Hiram Garcia
Blakely Environmental Investigations, Inc.
9605 Arrow Highway, Suite T
Rancho Cucamonga, CA 91730

Project: Angeles Chemical Co.
Project Site: Angeles Chemical Co.
Sample Date: 06-06-2002
Lab Job No.: BL206038

Dear Mr. Garcia:

Enclosed please find the analytical report for the sample(s) received by STS Environmental Laboratories on 06-06-2002 and analyzed for the following parameters:

EPA 8015M (Total Petroleum Hydrocarbons)
EPA 8260B (VOCs by GC/MS)
EPA 8270C (Semi VOCs by GC/MS)
EPA 7000 Series for CAM Metals (TTLC)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

STS Environmental Laboratory is certified by CA DHS (Certificate Number 1986). Thank you for giving us the opportunity to serve you. Please feel free to call me at (323) 888-0728 if our laboratory can be of further service to you.

Sincerely,

Roger Wang, Ph. D.
Laboratory Director

Enclosures

This cover letter is an integral part of this analytical report.

STS

Southland Technical Services, Inc.
Environmental Laboratories

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Montebello, CA 90640

Phone (323) 888-0728
Fax (323) 888-1509

07-01-2002

Client:	Blakely Environmental Investigations, Inc.	Lab Job No.:	BL20638
Project:	Angeles Chemical Co.		
Project Site:	Angeles Chemical Co.	Date Sampled:	06-06-2002
Matrix:	Soil	Date Received:	06-06-2002
Batch No.:	EF10-DS1	Date Analyzed:	06-10-2002

EPA Method 8015M (Total Petroleum Hydrocarbons)
Reporting Units: mg/kg (ppm)

Sample ID	Lab ID	DF	C13-C23 (Diesel)	C24-C40 (Heavy Oil)
Method Detection Limit			5	5
Practical Quantification Limit			10	10
Method Blank		1	ND	ND
BSB-2 18'	BL20638-4	1	ND	ND
BSB-2 21'	BL20638-5	1	ND	ND
BSB-2 27 5'	BL20638-10	1	ND	ND
MW-8 19'	BL20638-14	1	ND	ND
MW-8 24'	BL20638-15	1	ND	ND
MW-8 30'	BL20638-17	1	72	ND
MW-8 32.5'	BL20638-18	1	456	ND
MW-8 35'	BL20638-19	1	17	ND
MW-8 40'	BL20638-20	1	105	ND
MW-8 42.5'	BL20638-21	1	ND	ND

DF: Dilution Factor (**DF × MDL = Reporting Limit** or RL for the sample).
ND: Not Detected (below RL).

STS

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Fax (323) 888-1509

07-01-2002

Client: Blakely Environmental Investigations, Inc.
Project: Angeles Chemical Co.
Project Site: Angeles Chemical Co.
Matrix: Soil
Preparation Method: EPA 5035(For TPH-gasoline)
Batch No.: CF11-GS1

Lab Job No.: BL206038
Date Sampled: 06-06-2002
Date Received: 06-06-2002
Date Prepared: 06-06-2002
Date Analyzed: 06-11-2002

EPA 8015M (Gasoline)
Reporting Units: mg/kg (ppm)

Sample ID	Lab ID	Gasoline (C4-C12)	Method Detection Limit	Reporting Limit
Method Blank		ND	0.5	1.0
BSB-2 4'	BL20638-1	ND	0.5	1.0
BSB-2 9'	BL20638-2	ND	0.5	1.0
BSB-2 14'	BL20638-3	ND	0.5	1.0
BSB-2 18'	BL20638-4	ND	0.5	1.0
BSB-2 21'	BL20638-5	ND	0.5	1.0
BSB-2 26.5'	BL20638-6	ND	0.5	1.0
MW-8 3.5'	BL20638-11	ND	0.5	1.0
MW-8 10'	BL20638-12	ND	0.5	1.0
MW-8 15'	BL20638-13	ND	0.5	1.0
MW-8 19'	BL20638-14	ND	0.5	1.0
MW-8 24'	BL20638-15	2.1	0.5	1.0
MW-8 29'	BL20638-16	417	0.5	1.0
MW-8 30'	BL20638-17	991	0.5	1.0
MW-8 32.5'	BL20638-18	3,120	0.5	1.0
MW-8 35'	BL20638-19	358	0.5	1.0
MW-8 40'	BL20638-20	586	0.5	1.0
MW-8 42.5'	BL20638-21	7.6	0.5	1.0
DUP 4	BL20638-22	ND	0.5	1.0
DUP 5	BL20638-23	ND	0.5	1.0

ND: Not Detected (at the specified limit)

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07-01-2002

Client:	Blakely Environmental Investigations, Inc.	Lab Job No.:	BL206038
Project:	Angeles Chemical Co.		
Project Site:	Angeles Chemical Co.	Date Sampled:	06-06-2002
Matrix:	Soil	Date Received:	06-06-2002
Batch No.:	0614-M1	Date Analyzed:	06-14-2002

EPA 7000 Series for CAM Metals (TTLC)
Reporting Units: mg/kg (ppm)

Element	EPA Method	Method Blank	BSB-2 1.5' BL20638-7	BSB-2 6.5' BL20638-8	BSB-2 11.5' BL20638-9	MDL	PQL
Antimony (Sb)	7040	ND	ND	ND	ND	5	10
Arsenic (As)	7060	ND	8.9	3.2	3.0	0.3	0.3
Barium (Ba)	7080	ND	248	316	157	2.5	5.0
Beryllium (Be)	7090	ND	ND	ND	ND	1.3	2.5
Cadmium (Cd)	7130	ND	ND	ND	ND	1.3	2.5
Chromium (Cr)	7190	ND	14.9	21.5	13	2.5	5.0
Cobalt (Co)	7200	ND	17.8	23.4	13.8	2.5	5.0
Copper (Cu)	7210	ND	31	41.2	16.2	2.5	5.0
Lead (Pb)	7420	ND	21.4	12	5.4	2.5	5.0
Mercury (Hg)	7471	ND	ND	ND	ND	ND	0.1
Molybdenum (Mo)	7480	ND	ND	ND	ND	2.5	5.0
Nickel (Ni)	7520	ND	52	66.8	33.8	2.5	5.0
Selenium (Se)	7740	ND	ND	ND	ND	0.3	0.3
Silver (Ag)	7760	ND	ND	ND	ND	2.5	5.0
Thallium (Tl)	7840	ND	ND	ND	ND	5.0	10
Vanadium (V)	7910	ND	41	51	24	2.5	5.0
Zinc (Zn)	7950	ND	118	120	84	2.5	5.0

ND: Not Detected (at the specified limit).

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Environmental Laboratories

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Fax (323) 888-1509

07-01-2002

Client: Blakely Environmental Investigations, Inc.
Project: Angeles Chemical Co.
Project Site: Angeles Chemical Co.
Matrix: Soil
Batch No.: 0614-M1

Lab Job No.: BL206038

Date Sampled: 06-06-2002
Date Received: 06-06-2002
Date Analyzed: 06-14-2002

EPA 7000 Series for CAM Metals (TTLC)
Reporting Units: mg/kg (ppm)

Element	EPA Method	Method Blank	MW-8 1.5' BL20638-22	MW-8 6.5' BL20638-23	MW-8 11.5' BL20638-24	MDL	PQL
Antimony (Sb)	7040	ND	ND	ND	ND	5	10
Arsenic (As)	7060	ND	2.0	8.3	1.2	0.3	0.3
Barium (Ba)	7080	ND	143	364	199	2.5	5.0
Beryllium (Be)	7090	ND	ND	ND	ND	1.3	2.5
Cadmium (Cd)	7130	ND	ND	ND	ND	1.3	2.5
Chromium (Cr)	7190	ND	8.7	15.2	14.4	2.5	5.0
Cobalt (Co)	7200	ND	11	20.6	13.2	2.5	5.0
Copper (Cu)	7210	ND	15.4	32.8	19.2	2.5	5.0
Lead (Pb)	7420	ND	32.8	11	6.6	2.5	5.0
Mercury (Hg)	7471	ND	ND	ND	ND	0.03	0.1
Molybdenum (Mo)	7480	ND	ND	ND	ND	2.5	5.0
Nickel (Ni)	7520	ND	27.8	54.6	42.8	2.5	5.0
Selenium (Se)	7740	ND	ND	ND	ND	0.3	0.3
Silver (Ag)	7760	ND	ND	ND	ND	2.5	5.0
Thallium (Tl)	7840	ND	ND	ND	ND	5.0	10
Vanadium (V)	7910	ND	19	39	29	2.5	5.0
Zinc (Zn)	7950	ND	106	104	94	2.5	5.0

ND: Not Detected (at the specified limit).

STS

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Environmental Laboratories

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Fax (323) 888-1509

Client: Blakely Environmental Investigations, Inc. Lab Job No.: BL206038 Date Reported: 07-01-2002
Project:Angeles Chemical Co. Matrix: Soil Date Sampled: 06-06-2002

EPA 8260B (VOCs by GC/MS, Page 1 of 2) Reporting Unit: ppb

DATE ANALYZED			06-11	06-11-02	06-11-02	06-11-02	06-11-02	06-11-02
DILUTION FACTOR				1	1	1	1	1
LAB SAMPLE I.D.				BL20638-6	BL20638-11	BL20638-12	BL20638-13	BL20638-14
CLIENT SAMPLE I.D.				BSB-2 26.5'	MW-8 3.5'	MW-8 10'	MW-8 15'	MW-8 19'
COMPOUND	**MDL**	**PQL**	**MB**					
Dichlorodifluoromethane	5	10	ND	ND	ND	ND	ND	ND
Chloromethane	5	10	ND	ND	ND	ND	ND	ND
Vinyl Chloride	5	10	ND	ND	ND	ND	ND	ND
Bromomethane	5	10	ND	ND	ND	ND	ND	ND
Chloroethane	5	10	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	5	10	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	5	ND	9.1	ND	ND	5.6	6.7
Iodomethane	5	5	ND	ND	ND	ND	ND	ND
Methylene Chloride	5	5	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	5	ND	18.5	27.5	40.0	47.5	175
2,2-Dichloropropane	5	5	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	5	ND	22.0	8.0	20.0	25	115
Bromochloromethane	5	5	ND	ND	ND	ND	ND	ND
Chloroform	5	5	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	5	5	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	5	ND	42.5	42.5	52.5	45	247
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	5	5	ND	ND	ND	ND	ND	ND
Benzene	2	5	ND	ND	ND	ND	ND	ND
Trichloroethene	5	5	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	5	5	ND	ND	ND	ND	ND	ND
Bromodichloromethane	5	5	ND	ND	ND	ND	ND	ND
Dibromomethane	5	5	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	5	5	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	5	5	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	5	5	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	5	5	ND	ND	ND	ND	ND	ND
Dibromochloromethane	5	5	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	10	10	ND	ND	ND	ND	ND	ND
Bromoform	5	5	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5	5	ND	ND	ND	ND	ND	ND
Bromobenzene	5	5	ND	ND	ND	ND	ND	ND

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Environmental Laboratories

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Fax (323) 888-1509

Client: Blakely Environmental Investigations, Inc. Lab Job No.: BL206038 Date Reported: 07-01-2002

EPA 8260B (VOCs by GC/MS, Page 2 of 2) Reporting Unit: (ppb)

COMPOUND	MDL	PQL	MB	BSB-2 26.5'	MW-8 3.5'	MW-8 10'	MW-8 15'	MW-8 19'
Toluene	2	5	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	5	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane(EDB)	5	5	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	5	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethan	5	5	ND	ND	ND	ND	ND	ND
Ethylbenzene	2	5	ND	ND	ND	ND	ND	ND
Total Xylenes	2	5	ND	ND	ND	ND	ND	ND
Styrene	5	5	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethan	5	5	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	5	5	ND	ND	ND	ND	ND	ND
n-Propylbenzene	5	5	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	5	5	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	5	5	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	5	5	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	5	5	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	5	5	ND	ND	ND	ND	ND	ND
Sec-Butylbenzene	5	5	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	5	5	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	5	5	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	5	5	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	5	5	ND	ND	ND	ND	ND	ND
n-Butylbenzene	5	5	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5	5	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane	5	5	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	5	5	ND	ND	ND	ND	ND	ND
Naphthalene	5	5	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	5	5	ND	ND	ND	ND	ND	ND
Acetone	25	50	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	25	50	ND	ND	ND	ND	ND	ND
Carbon disulfide	25	50	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	25	50	ND	ND	ND	ND	ND	ND
2-Hexanone	25	50	ND	ND	ND	ND	ND	ND
Vinyl Acetate	25	50	ND	ND	ND	ND	ND	ND
MTBE	5	5	ND	ND	ND	ND	ND	ND
ETBE	5	5	ND	ND	ND	ND	ND	ND
DIPE	5	5	ND	ND	ND	ND	ND	ND
TAME	5	5	ND	ND	ND	ND	ND	ND
T-Butyl Alcohol	20	30	ND	ND	ND	ND	ND	ND

MDL=Method Detection Limit; MB=Method Blank; ND=Not Detected (below DF × PQL).

STS

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Client: Blakely Environmental Investigations, Inc. Lab Job No.: BL206038 Date Reported: 07-01-2002
Project:Angeles Chemical Co. Matrix: Soil Date Sampled: 06-06-2002

EPA 8260B (VOCs by GC/MS, Page 1 of 2) Reporting Unit: ppb

DATE ANALYZED			06-11	06-11-02	06-11-02	06-11-02	06-11-02	06-11-02
DILUTION FACTOR				1	1	1	2	1
LAB SAMPLE I.D.				BL20638-1	BL20638-2	BL20638-3	BL20638-4	BL20638-5
CLIENT SAMPLE I.D.				BSB-2 4'	BSB-2 9'	BSB-2 14'	BSB-2 18'	BSB-2 21'
COMPOUND	**MDL**	**PQL**	**MB**					
Dichlorodifluoromethane	5	10	ND	ND	ND	ND	ND	ND
Chloromethane	5	10	ND	ND	ND	ND	ND	ND
Vinyl Chloride	5	10	ND	ND	ND	ND	ND	ND
Bromomethane	5	10	ND	ND	ND	ND	ND	ND
Chloroethane	5	10	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	5	10	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	5	ND	ND	ND	ND	ND	ND
Iodomethane	5	5	ND	ND	ND	ND	ND	ND
Methylene Chloride	5	5	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	5	ND	12	5.6	ND	35	ND
2,2-Dichloropropane	5	5	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	5	ND	ND	ND	ND	ND	ND
Bromochloromethane	5	5	ND	ND	ND	ND	ND	ND
Chloroform	5	5	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	5	5	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	5	ND	11	5.6	ND	55	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	5	5	ND	ND	ND	ND	ND	ND
Benzene	2	5	ND	ND	ND	ND	ND	ND
Trichloroethene	5	5	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	5	5	ND	ND	ND	ND	ND	ND
Bromodichloromethane	5	5	ND	ND	ND	ND	ND	ND
Dibromomethane	5	5	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	5	5	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	5	5	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	5	5	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	5	5	ND	ND	ND	ND	ND	ND
Dibromochloromethane	5	5	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	10	10	ND	ND	ND	ND	ND	ND
Bromoform	5	5	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5	5	ND	ND	ND	ND	ND	ND
Bromobenzene	5	5	ND	ND	ND	ND	ND	ND

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Client: Blakely Environmental Investigations, Inc. Lab Job No.: BL206038 Date Reported: 07-01-2002

EPA 8260B (VOCs by GC/MS, Page 2 of 2) Reporting Unit: (ppb)

COMPOUND	MDL	PQL	MB	BSB-2 4'	BSB-2 9'	BSB-2 14'	BSB-2 18'	BSB-2 21'
Toluene	2	5	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	5	ND	ND	ND	6.8	ND	ND
1,2-Dibromoethane(EDB)	5	5	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	5	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethan	5	5	ND	ND	ND	ND	ND	ND
Ethylbenzene	2	5	ND	ND	ND	ND	ND	ND
Total Xylenes	2	5	ND	ND	ND	ND	ND	ND
Styrene	5	5	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethan	5	5	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	5	5	ND	ND	ND	ND	ND	ND
n-Propylbenzene	5	5	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	5	5	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	5	5	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	5	5	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	5	5	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	5	5	ND	ND	ND	ND	ND	ND
Sec-Butylbenzene	5	5	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	5	5	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	5	5	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	5	5	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	5	5	ND	ND	ND	ND	ND	ND
n-Butylbenzene	5	5	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5	5	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane	5	5	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	5	5	ND	ND	ND	ND	ND	ND
Naphthalene	5	5	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	5	5	ND	ND	ND	ND	ND	ND
Acetone	25	50	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	25	50	ND	ND	ND	ND	ND	ND
Carbon disulfide	25	50	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	25	50	ND	ND	ND	ND	ND	ND
2-Hexanone	25	50	ND	ND	ND	ND	ND	ND
Vinyl Acetate	25	50	ND	ND	ND	ND	ND	ND
MTBE	5	5	ND	ND	ND	ND	ND	ND
ETBE	5	5	ND	ND	ND	ND	ND	ND
DIPE	5	5	ND	ND	ND	ND	ND	ND
TAME	5	5	ND	ND	ND	ND	ND	ND
T-Butyl Alcohol	20	30	ND	ND	ND	ND	ND	ND

MDL=Method Detection Limit; MB=Method Blank; ND=Not Detected (below DF × PQL).

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Client: Blakely Environmental Investigations, Inc. Lab Job No.: BL206038 Date Reported: 07-01-2002
Project:Angeles Chemical Co. Matrix: Soil Date Sampled: 06-06-2002

EPA 8260B (VOCs by GC/MS, Page 1 of 2) Reporting Unit: ppb

DATE ANALYZED			06-11	06-11-02	06-11-02	06-11-02	06-11-02	06-11-02
DILUTION FACTOR				10	50	250	500	50
LAB SAMPLE I.D.				BL20638-15	BL20638-16	BL20638-17	BL20638-18	BL20638-19
CLIENT SAMPLE I.D.				MW-8 24'	MW-8 29'	MW-8 30'	MW-8 32.5'	MW-8 35'
COMPOUND	**MDL**	**PQL**	**MB**					
Dichlorodifluoromethane	5	10	ND	ND	ND	ND	ND	ND
Chloromethane	5	10	ND	ND	ND	ND	ND	ND
Vinyl Chloride	5	10	ND	ND	ND	ND	ND	ND
Bromomethane	5	10	ND	ND	ND	ND	ND	ND
Chloroethane	5	10	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	5	10	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	5	ND	195	ND	ND	1,850	ND
Iodomethane	5	5	ND	ND	ND	ND	ND	ND
Methylene Chloride	5	5	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	5	ND	455	991	7,350	29,800	3,680
2,2-Dichloropropane	5	5	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	5	ND	265	748	3,600	12,300	1,900
Bromochloromethane	5	5	ND	ND	ND	ND	ND	ND
Chloroform	5	5	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	5	5	ND	ND	ND	4,950	ND	ND
1,1,1-Trichloroethane	5	5	ND	835	9,550	36,400	42,800	10,200
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	5	5	ND	ND	ND	ND	ND	ND
Benzene	2	5	ND	ND	ND	ND	ND	ND
Trichloroethene	5	5	ND	ND	ND	ND	ND	460
1,2-Dichloropropane	5	5	ND	ND	ND	ND	ND	ND
Bromodichloromethane	5	5	ND	ND	ND	ND	ND	ND
Dibromomethane	5	5	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	5	5	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	5	5	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	5	5	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	5	5	ND	ND	ND	ND	ND	ND
Dibromochloromethane	5	5	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	10	10	ND	ND	ND	ND	ND	ND
Bromoform	5	5	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5	5	ND	ND	438	2,750	5,290	520
Bromobenzene	5	5	ND	ND	ND	ND	ND	ND

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EPA 8260B (VOCs by GC/MS, Page 2 of 2) Reporting Unit: (ppb)

COMPOUND	MDL	PQL	MB	MW-8 24'	MW-8 29'	MW-8 30'	MW-8 32.5'	MW-8 35'
Toluene	2	5	ND	ND	2,310	34,100	65,500	6,920
Tetrachloroethene	5	5	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane(EDB)	5	5	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	5	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethan	5	5	ND	ND	ND	ND	ND	ND
Ethylbenzene	2	5	ND	ND	2,260	14,100	27,900	3,340
Total Xylenes	2	5	ND	ND	9,580	52,000	92,600	10,900
Styrene	5	5	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethan	5	5	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	5	5	ND	ND	ND	ND	ND	ND
n-Propylbenzene	5	5	ND	ND	1,300	8,700	18,100	1,820
2-Chlorotoluene	5	5	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	5	5	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	5	5	ND	ND	4,420	19,800	47,500	4,580
tert-Butylbenzene	5	5	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	5	5	ND	ND	15,500	80,500	161,000	17,300
Sec-Butylbenzene	5	5	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	5	5	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	5	5	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	5	5	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	5	5	ND	ND	ND	ND	ND	ND
n-Butylbenzene	5	5	ND	ND	968	4,350	7,950	800
1,2,4-Trichlorobenzene	5	5	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane	5	5	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	5	5	ND	ND	ND	ND	ND	ND
Naphthalene	5	5	ND	ND	1,040	6,100	11,000	980
1,2,3-Trichlorobenzene	5	5	ND	ND	ND	ND	ND	ND
Acetone	25	50	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	25	50	ND	ND	ND	ND	ND	ND
Carbon disulfide	25	50	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	25	50	ND	ND	ND	ND	ND	ND
2-Hexanone	25	50	ND	ND	ND	ND	ND	ND
Vinyl Acetate	25	50	ND	ND	ND	ND	ND	ND
MTBE	5	5	ND	ND	ND	ND	ND	ND
ETBE	5	5	ND	ND	ND	ND	ND	ND
DIPE	5	5	ND	ND	ND	ND	ND	ND
TAME	5	5	ND	ND	ND	ND	ND	ND
T-Butyl Alcohol	20	30	ND	ND	ND	ND	ND	ND

MDL=Method Detection Limit; MB=Method Blank; ND=Not Detected (below DF × PQL).

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Client: Blakely Environmental Investigations, Inc. Lab Job No.: BL206038 Date Reported: 07-01-2002
Project: Angeles Chemical Co. Matrix: Soil Date Sampled: 06-06-2002

EPA 8260B (VOCs by GC/MS, Page 1 of 2) Reporting Unit: ppb

DATE ANALYZED			06-11	06-11-02	06-11-02	06-11-02	06-11-02	
DILUTION FACTOR				25	5	1	10	
LAB SAMPLE I.D.				BL20638-20	BL20638-21	BL20638-22	BL20638-23	
CLIENT SAMPLE I.D.				MW-8 40'	MW-8 42.5'	DUP-4	DUP-5	
COMPOUND	**MDL**	**PQL**	**MB**					
Dichlorodifluoromethane	5	10	ND	ND	ND	ND	ND	
Chloromethane	5	10	ND	ND	ND	ND	ND	
Vinyl Chloride	5	10	ND	ND	ND	ND	ND	
Bromomethane	5	10	ND	ND	ND	ND	ND	
Chloroethane	5	10	ND	ND	ND	ND	ND	
Trichlorofluoromethane	5	10	ND	ND	ND	ND	ND	
1,1-Dichloroethene	5	5	ND	90	35	ND	8.6	
Iodomethane	5	5	ND	ND	ND	ND	ND	
Methylene Chloride	5	5	ND	ND	ND	ND	ND	
trans-1,2-Dichloroethene	5	5	ND	ND	ND	ND	ND	
1,1-Dichloroethane	5	5	ND	2,090	145	ND	47.7	
2,2-Dichloropropane	5	5	ND	ND	ND	ND	ND	
cis-1,2-Dichloroethene	5	5	ND	1,360	212	ND	27.7	
Bromochloromethane	5	5	ND	ND	ND	ND	ND	
Chloroform	5	5	ND	ND	ND	ND	ND	
1,2-Dichloroethane	5	5	ND	ND	ND	ND	ND	
1,1,1-Trichloroethane	5	5	ND	10,600	55	ND	35	
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	
1,1-Dichloropropene	5	5	ND	ND	ND	ND	ND	
Benzene	2	5	ND	ND	62.5	ND	ND	
Trichloroethene	5	5	ND	260	ND	ND	ND	
1,2-Dichloropropane	5	5	ND	ND	ND	ND	ND	
Bromodichloromethane	5	5	ND	ND	ND	ND	ND	
Dibromomethane	5	5	ND	ND	ND	ND	ND	
trans-1,3-Dichloropropene	5	5	ND	ND	ND	ND	ND	
cis-1,3-Dichloropropene	5	5	ND	ND	ND	ND	ND	
1,1,2-Trichloroethane	5	5	ND	ND	ND	ND	ND	
1,3-Dichloropropane	5	5	ND	ND	ND	ND	ND	
Dibromochloromethane	5	5	ND	ND	ND	ND	ND	
2-Chloroethylvinyl ether	10	10	ND	ND	ND	ND	ND	
Bromoform	5	5	ND	ND	ND	ND	ND	
Isopropylbenzene	5	5	ND	566	ND	ND	ND	
Bromobenzene	5	5	ND	ND	ND	ND	ND	

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Client: Blakely Environmental Investigations, Inc. Lab Job No.: BL206038 Date Reported: 07-01-2002

EPA 8260B (VOCs by GC/MS, Page 2 of 2) Reporting Unit: (ppb)

COMPOUND	MDL	PQL	MB	MW-8 40'	MW-8 42.5'	DUP-4	DUP-5	
Toluene	2	5	ND	7,250	452	ND	ND	
Tetrachloroethene	5	5	ND	160	ND	ND	ND	
1,2-Dibromoethane(EDB)	5	5	ND	ND	ND	ND	ND	
Chlorobenzene	5	5	ND	ND	ND	ND	ND	
1,1,1,2-Tetrachloroethan	5	5	ND	ND	ND	ND	ND	
Ethylbenzene	2	5	ND	3,510	25	ND	ND	
Total Xylenes	2	5	ND	11,600	113	ND	ND	
Styrene	5	5	ND	ND	ND	ND	ND	
1,1,2,2-Tetrachloroethan	5	5	ND	ND	ND	ND	ND	
1,2,3-Trichloropropane	5	5	ND	ND	ND	ND	ND	
n-Propylbenzene	5	5	ND	1,870	ND	ND	ND	
2-Chlorotoluene	5	5	ND	ND	ND	ND	ND	
4-Chlorotoluene	5	5	ND	ND	ND	ND	ND	
1,3,5-Trimethylbenzene	5	5	ND	4,630	95	ND	ND	
tert-Butylbenzene	5	5	ND	ND	ND	ND	ND	
1,2,4-Trimethylbenzene	5	5	ND	18,400	50	ND	ND	
Sec-Butylbenzene	5	5	ND	ND	ND	ND	ND	
1,3-Dichlorobenzene	5	5	ND	ND	ND	ND	ND	
p-Isopropyltoluene	5	5	ND	ND	ND	ND	ND	
1,4-Dichlorobenzene	5	5	ND	ND	ND	ND	ND	
1,2-Dichlorobenzene	5	5	ND	ND	ND	ND	ND	
n-Butylbenzene	5	5	ND	851	ND	ND	ND	
1,2,4-Trichlorobenzene	5	5	ND	ND	ND	ND	ND	
1,2-Dibromo-3-Chloropropane	5	5	ND	ND	ND	ND	ND	
Hexachlorobutadiene	5	5	ND	ND	ND	ND	ND	
Naphthalene	5	5	ND	1,290	ND	ND	ND	
1,2,3-Trichlorobenzene	5	5	ND	ND	ND	ND	ND	
Acetone	25	50	ND	ND	ND	ND	ND	
2-Butanone (MEK)	25	50	ND	ND	ND	ND	ND	
Carbon disulfide	25	50	ND	ND	ND	ND	ND	
4-Methyl-2-pentanone	25	50	ND	ND	ND	ND	ND	
2-Hexanone	25	50	ND	ND	ND	ND	ND	
Vinyl Acetate	25	50	ND	ND	ND	ND	ND	
MTBE	5	5	ND	ND	ND	ND	ND	
ETBE	5	5	ND	ND	ND	ND	ND	
DIPE	5	5	ND	ND	ND	ND	ND	
TAME	5	5	ND	ND	ND	ND	ND	
T-Butyl Alcohol	20	30	ND	ND	ND	ND	ND	

MDL=Method Detection Limit; MB=Method Blank; ND=Not Detected (below DF × PQL).

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Client: Blakely Environmental Investigations, Inc.Lab Job No.: BL206038 Date Reported: 07-01-2002
Project:Angeles Chemical Co. Matrix: Soil Date Sampled: 06-06-2002

EPA 8270C (Semi-VOCs by GC/MS, Page 1 of 2)
Reporting Unit: mg/kg (ppm)

DATE ANALYZED			06-14	06-14-02	06-14-02	06-14-02		
DATE EXTRACTED			06-14	06-14-02	06-14-02	06-14-02		
EXTRACTION METHOD			3550B	3550B	3550B	3550B		
DILUTION FACTOR			1	1	1	1		
LAB SAMPLE I.D.				BL20638-7	BL20638-8	BL20638-9		
CLIENT SAMPLE I.D.				BSB-2 1.5'	BSB-2 6.5'	BSB-2 11.5'		
COMPOUND	**MDL**	**PQL**	**MB**					
Phenol	0.25	0.50	ND	ND	ND	ND		
Bis(2-chloroethyl) ether	0.25	0.50	ND	ND	ND	ND		
2-Chlorophenol	0.25	0.50	ND	ND	ND	ND		
1,3-Dichlorobenzene	0.25	0.50	ND	ND	ND	ND		
1,4-Dichlorobenzene	0.25	0.50	ND	ND	ND	ND		
Benzyl alcohol	0.25	0.50	ND	ND	ND	ND		
1,2-Dichlorobenzene	0.25	0.50	ND	ND	ND	ND		
2-Methylphenol (o-cresol)	0.25	0.50	ND	ND	ND	ND		
Bis(2-chloroisopropyl)ether	0.25	0.50	ND	ND	ND	ND		
N-Nitrosodi-n-propylamine	0.25	0.50	ND	ND	ND	ND		
4-Methylphenol (p-cresol)	0.25	0.50	ND	ND	ND	ND		
Hexachloroethane	0.25	0.50	ND	ND	ND	ND		
Nitrobenzene	0.25	0.50	ND	ND	ND	ND		
Isophorone	0.25	0.50	ND	ND	ND	ND		
2-Nitrophenol	0.25	0.50	ND	ND	ND	ND		
2,4-Dimethylphenol	0.25	0.50	ND	ND	ND	ND		
Bis(2-chloroethoxy)methane	0.25	0.50	ND	ND	ND	ND		
2,4-Dichlorophenol	0.25	0.50	ND	ND	ND	ND		
Benzoic acid	0.25	0.50	ND	ND	ND	ND		
1,2,4-Trichlorobenzene	0.25	0.50	ND	ND	ND	ND		
Naphthalene	0.25	0.50	ND	ND	ND	ND		
4-Chloroaniline	0.25	0.50	ND	ND	ND	ND		
Hexachlorobutadiene	0.25	0.50	ND	ND	ND	ND		
4-Chloro-3-methylphenol	0.25	0.50	ND	ND	ND	ND		
2-Methylnaphthalene	0.25	0.50	ND	ND	ND	ND		
Hexachlorocyclopentadiene	0.25	0.50	ND	ND	ND	ND		
2,4,6-Trichlorophenol	0.25	0.50	ND	ND	ND	ND		
2,4,5-Trichlorophenol	0.25	0.50	ND	ND	ND	ND		
2-Chloronaphthalene	0.25	0.50	ND	ND	ND	ND		
2-Nitroaniline	0.25	0.50	ND	ND	ND	ND		
Dimethylphthalate	0.25	0.50	ND	ND	ND	ND		

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Client: Blakely Environmental Investigations, Inc. Lab Job No.: BL206038 Date Reported: 07-01-2002
Project: Angeles Chemical Co. Matrix: Soil Date Sampled: 06-06-2002

EPA 8270C (Semi-VOCs by GC/MS, Page 2 of 2) Reporting Unit: mg/kg(ppm)

CLIENT SAMPLE I.D.				BSB-2 1.5'	BSB-2 6.5'	BSB-2 11.5'		
COMPOUND	**MDL**	**PQL**	**MB**					
Acenaphthylene	0.25	0.50	ND	ND	ND	ND		
2,6-Dinitrotoluene	0.25	0.50	ND	ND	ND	ND		
3-Nitroaniline	0.25	0.50	ND	ND	ND	ND		
Acenaphthene	0.25	0.50	ND	ND	ND	ND		
2,4-Dinitrophenol	0.25	0.50	ND	ND	ND	ND		
Dibenzofuran	0.25	0.50	ND	ND	ND	ND		
4-Nitrophenol	0.25	0.50	ND	ND	ND	ND		
2,4-Dinitrotoluene	0.25	0.50	ND	ND	ND	ND		
Fluorene	0.25	0.50	ND	ND	ND	ND		
Diethylphthalate	0.25	0.50	ND	ND	ND	ND		
4-Chlorophenyl phenyl ether	0.25	0.50	ND	ND	ND	ND		
4-Nitroaniline	0.25	0.50	ND	ND	ND	ND		
4,6-Dinitro-2-methylphenol	0.25	0.50	ND	ND	ND	ND		
N-Nitrosodiphenylamine	0.25	0.50	ND	ND	ND	ND		
4-Bromophenyl-phenyl ether	0.25	0.50	ND	ND	ND	ND		
Hexachlorobenzene	0.25	0.50	ND	ND	ND	ND		
Pentachlorophenol	0.25	0.50	ND	ND	ND	ND		
Phenanthrene	0.25	0.50	ND	ND	ND	ND		
Anthracene	0.25	0.50	ND	ND	ND	ND		
Di-n-butylphthalate	0.25	0.50	ND	ND	ND	ND		
Fluoranthene	0.25	0.50	ND	ND	ND	ND		
Pyrene	0.25	0.50	ND	ND	ND	ND		
Butyl benzylphthalate	0.25	0.50	ND	ND	ND	ND		
Benzo(a)anthracene	0.25	0.50	ND	ND	ND	ND		
3,3'-Dichlorobenzidine	0.25	0.50	ND	ND	ND	ND		
Chrysene	0.25	0.50	ND	ND	ND	ND		
Bis(2-Ethylhexyl)phthalate	0.25	0.50	ND	ND	ND	ND		
Di-n-octylphthalate	0.25	0.50	ND	ND	ND	ND		
Benzo(b)fluoranthene	0.25	0.50	ND	ND	ND	ND		
Benzo(k)fluoranthene	0.25	0.50	ND	ND	ND	ND		
Benzo(a)pyrene	0.25	0.50	ND	ND	ND	ND		
Indeno(1,2,3-cd)pyrene	0.25	0.50	ND	ND	ND	ND		
Dibenz(a,h)anthracene	0.25	0.50	ND	ND	ND	ND		
Benzo(g,h,i)perylene	0.25	0.50	ND	ND	ND	ND		

MB=Method Blank; MDL=Method Detection Limit; ND=Not Detected (below DF × MDL).

STS

Southland Technical Services, Inc.
Environmental Laboratories

7801 Telegraph Road, Suite L
Montebello, CA 90640

Phone (323) 888-0728
Fax (323) 888-1509

Client: Blakely Environmental Investigations, Inc.
Project: Angeles Chemical Co.

Lab Job No.: BL206038
Matrix: Soil

Date Reported: 07-01-2002
Date Sampled: 06-06-2002

EPA 8270C (Semi-VOCs by GC/MS, Page 1 of 2)

Reporting Unit: mg/kg (ppm)

DATE ANALYZED			06-14	06-14-02	06-14-02	06-14-02		
DATE EXTRACTED			06-14	06-14-02	06-14-02	06-14-02		
EXTRACTION METHOD			3550B	3550B	3550B	3550B		
DILUTION FACTOR			1	1	1	1		
LAB SAMPLE I.D.				BL20638-22	BL20638-23	BL20638-24		
CLIENT SAMPLE I.D.				MW-8 1.5'	MW-8 6.5'	MW-8 11.5'		
COMPOUND	MDL	PQL	MB					
Phenol	0.25	0.50	ND	ND	ND	ND		
Bis(2-chloroethyl) ether	0.25	0.50	ND	ND	ND	ND		
2-Chlorophenol	0.25	0.50	ND	ND	ND	ND		
1,3-Dichlorobenzene	0.25	0.50	ND	ND	ND	ND		
1,4-Dichlorobenzene	0.25	0.50	ND	ND	ND	ND		
Benzyl alcohol	0.25	0.50	ND	ND	ND	ND		
1,2-Dichlorobenzene	0.25	0.50	ND	ND	ND	ND		
2-Methylphenol (o-cresol)	0.25	0.50	ND	ND	ND	ND		
Bis(2-chloroisopropyl)ether	0.25	0.50	ND	ND	ND	ND		
N-Nitrosodi-n-propylamine	0.25	0.50	ND	ND	ND	ND		
4-Methylphenol (p-cresol)	0.25	0.50	ND	ND	ND	ND		
Hexachloroethane	0.25	0.50	ND	ND	ND	ND		
Nitrobenzene	0.25	0.50	ND	ND	ND	ND		
Isophorone	0.25	0.50	ND	ND	ND	ND		
2-Nitrophenol	0.25	0.50	ND	ND	ND	ND		
2,4-Dimethylphenol	0.25	0.50	ND	ND	ND	ND		
Bis(2-chloroethoxy)methane	0.25	0.50	ND	ND	ND	ND		
2,4-Dichlorophenol	0.25	0.50	ND	ND	ND	ND		
Benzoic acid	0.25	0.50	ND	ND	ND	ND		
1,2,4-Trichlorobenzene	0.25	0.50	ND	ND	ND	ND		
Naphthalene	0.25	0.50	ND	ND	ND	ND		
4-Chloroaniline	0.25	0.50	ND	ND	ND	ND		
Hexachlorobutadiene	0.25	0.50	ND	ND	ND	ND		
4-Chloro-3-methylphenol	0.25	0.50	ND	ND	ND	ND		
2-Methylnaphthalene	0.25	0.50	ND	ND	ND	ND		
Hexachlorocyclopentadiene	0.25	0.50	ND	ND	ND	ND		
2,4,6-Trichlorophenol	0.25	0.50	ND	ND	ND	ND		
2,4,5-Trichlorophenol	0.25	0.50	ND	ND	ND	ND		
2-Chloronaphthalene	0.25	0.50	ND	ND	ND	ND		
2-Nitroaniline	0.25	0.50	ND	ND	ND	ND		
Dimethylphthalate	0.25	0.50	ND	ND	ND	ND		

STS

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Environmental Laboratories

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Montebello, CA 90640

Phone (323) 888-0728
Fax (323) 888-1509

Client: Blakely Environmental Investigations, Inc. Lab Job No.: BL206038 Date Reported: 07-01-2002
Project: Angeles Chemical Co. Matrix: Soil Date Sampled: 06-06-2002

EPA 8270C (Semi-VOCs by GC/MS, Page 2 of 2) Reporting Unit: mg/kg(ppm)

CLIENT SAMPLE I.D.				MW-8 1.5'	MW-8 6.5'	MW-8 11.5"		
COMPOUND	**MDL**	**PQL**	**MB**					
Acenaphthylene	0.25	0.50	ND	ND	ND	ND		
2,6-Dinitrotoluene	0.25	0.50	ND	ND	ND	ND		
3-Nitroaniline	0.25	0.50	ND	ND	ND	ND		
Acenaphthene	0.25	0.50	ND	ND	ND	ND		
2,4-Dinitrophenol	0.25	0.50	ND	ND	ND	ND		
Dibenzofuran	0.25	0.50	ND	ND	ND	ND		
4-Nitrophenol	0.25	0.50	ND	ND	ND	ND		
2,4-Dinitrotoluene	0.25	0.50	ND	ND	ND	ND		
Fluorene	0.25	0.50	ND	ND	ND	ND		
Diethylphthalate	0.25	0.50	ND	ND	ND	ND		
4-Chlorophenyl phenyl ether	0.25	0.50	ND	ND	ND	ND		
4-Nitroaniline	0.25	0.50	ND	ND	ND	ND		
4,6-Dinitro-2-methylphenol	0.25	0.50	ND	ND	ND	ND		
N-Nitrosodiphenylamine	0.25	0.50	ND	ND	ND	ND		
4-Bromophenyl-phenyl ether	0.25	0.50	ND	ND	ND	ND		
Hexachlorobenzene	0.25	0.50	ND	ND	ND	ND		
Pentachlorophenol	0.25	0.50	ND	ND	ND	ND		
Phenanthrene	0.25	0.50	ND	ND	ND	ND		
Anthracene	0.25	0.50	ND	ND	ND	ND		
Di-n-butylphthalate	0.25	0.50	ND	ND	ND	ND		
Fluoranthene	0.25	0.50	ND	ND	ND	ND		
Pyrene	0.25	0.50	ND	ND	ND	ND		
Butyl benzylphthalate	0.25	0.50	ND	ND	ND	ND		
Benzo(a)anthracene	0.25	0.50	ND	ND	ND	ND		
3,3'-Dichlorobenzidine	0.25	0.50	ND	ND	ND	ND		
Chrysene	0.25	0.50	ND	ND	ND	ND		
Bis(2-Ethylhexyl)phthalate	0.25	0.50	ND	ND	ND	ND		
Di-n-octylphthalate	0.25	0.50	ND	ND	ND	ND		
Benzo(b)fluoranthene	0.25	0.50	ND	ND	ND	ND		
Benzo(k)fluoranthene	0.25	0.50	ND	ND	ND	ND		
Benzo(a)pyrene	0.25	0.50	ND	ND	ND	ND		
Indeno(1,2,3-cd)pyrene	0.25	0.50	ND	ND	ND	ND		
Dibenz(a,h)anthracene	0.25	0.50	ND	ND	ND	ND		
Benzo(g,h,i)perylene	0.25	0.50	ND	ND	ND	ND		

MB=Method Blank; MDL=Method Detection Limit; ND=Not Detected (below DF × MDL).

STS

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Environmental Laboratories

7801 Telegraph Road, Suite L
Montebello, CA 90640

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Fax (323) 888-1509

07-01-2002

EPA 8270C
Batch QA/QC Report

Client: Blakely Environmental Investigations, Inc.
Project: Angeles Chemical Co.
Matrix: Soil
Batch No: 0614-BNA

Lab Job No.: BL206038
Lab Sample ID: 06-06-02
Date Analyzed: 06-14-02

MS/MSD Report
Unit: ppm

Compound	MB	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
Phenol	ND	10	7.96	7.67	79.6	76.7	3.7	40	12-130
2-Chlorophenol	ND	10	7.17	7.11	71.7	71.1	0.8	40	24-134
1,4-Dichloro-benzene	ND	5.0	3.23	3.65	64.6	73.0	12.2	40	36-124
n-Nitroso-di-n-propylamine	ND	5.0	3.97	4.40	79.4	88.0	10.3	40	41-230
1,2,4-Trichlorobenzene	ND	5.0	3.22	4.02	64.4	80.4	22.1	40	44-142
4-Chloro-3-methylphenol	ND	10	6.08	7.46	60.8	74.6	20.4	40	22-147
Acenaphthene	ND	5.0	3.70	4.04	74.0	80.8	8.8	40	47-145
4-Nitrophenol	ND	10	7.88	6.77	78.8	67.7	15.2	58	12-132
2,4-Dinitro-toluene	ND	5.0	3.57	4.46	71.4	89.2	22.2	40	39-139
Pentachloro-phenol	ND	10	8.05	12.3	80.5	123.0	41.8	51	14-176
Pyrene	ND	5.0	2.44	2.48	48.8	49.6	1.6	30	26-130

ND: Not Detected

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Environmental Laboratories

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07-01-2002

EPA 8015M (TPH)
Batch QA/QC Report

Client:	Blakely Environmental Investigations, Inc.	Lab Job No.:	BL20638
Project:	Angeles Chemical Co.		
Matrix:	Soil	Sample ID:	BL20638-4
Batch No:	EF10-DS1	Date Analyzed:	06-10-2002

I. MS/MSD Report
Unit: ppm

Compound	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
TPH-d	ND	200	186	189	93.0	94.5	1.6	30	70-130

II. LCS Result
Unit: ppm

Compound	LCS Report Value	True Value	Rec.%	Accept. Limit
TPH-d	200	200	100.0	80-120

ND: Not Detected (at the specified limit)

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Environmental Laboratories

7801 Telegraph Road, Suite L
Montebello, CA 90640

Phone (323) 888-0728
Fax (323) 888-1509

07-01-2002

EPA 8260B
Batch QA/QC Report

Client:	Blakely Environmental Investigations, Inc.	Lab Job No.:	BL20638
Project:	Angeles Chemical Co.		
Matrix:	Soil	Sample ID:	BL206038-5
Batch No:	0611-VOCS	Date Analyzed:	06-11-2002

I. MS/MSD Report
Unit: ppb

Compound	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
1,1-Dichloroethene	ND	20	25.6	23.4	128.0	117.0	9.0	30	70-130
Benzene	ND	20	21.0	25.0	105.0	125.0	17.4	30	70-130
Trichloro-ethene	ND	20	20.4	24.5	102.0	122.5	18.3	30	70-130
Toluene	ND	20	19.5	25.1	97.5	125.5	25.1	30	70-130
Chlorobenzene	ND	20	20.8	25.1	104.0	125.5	18.7	30	70-130

II. LCS Result
Unit: ppb

Compound	LCS Report Value	True Value	Rec.%	Accept. Limit
1,1-Dichloroethene	18.5	20	92.5	80-120
Benzene	21.1	20	105.5	80-120
Trichloro-ethene	22.1	20	110.5	80-120
Toluene	23.3	20	116.5	80-120
Chlorobenzene	20.4	20	102.0	80-120

ND: Not Detected (at the specified limit)

Southland Technical Services, Inc.
Environmental Laboratories

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Fax (323) 888-1509

07-01-2002

EPA 8015M (TPH)
Batch QA/QC Report

Client:	Blakely Environmental Investigations, Inc.	Lab Job No.:	BL206038
Project:	Angeles Chemical Co.		
Matrix:	Soil	Sample ID:	BL206038-3
Batch No:	CF11-GS1	Date Analyzed:	06-11-2002

I. MS/MSD Report
Unit: ppb

Compound	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
TPH-Gasoline	ND	1000	1,140	1100	114.0	110.0	3.6	30	70-130

II. LCS Result
Unit: ppb

Compound	LCS Report Value	True Value	Rec.%	Accept. Limit
TPH-Gasoline	945	1000	94.5	80-120

ND: Not Detected (at the specified limit)

SOUTHLAND TECHNICAL SERVICES, INC.

CHAIN OF CUSTODY RECORD

Lab Job Number BL206038

Client: Blakely Env. Inv., Inc.

Address: 9605 Arrow Route, Suite T, Rancho Cucamonga, CA 91730

Report Attention:

Phone: 909-989-9550 Fax: 909 989-9556 Sampled by: HG.

Project Name/No.:

Project Site: Angeles Chemical Co.

T.A.T. Requested: ☐ Rush 8 12 24 hours ☐ 2-3 days ☒ Normal

Sample Condition: ☒ Chilled ☒ Intact ☐ Sample seals

Client Sample ID	Lab Sample ID	Sample Collect Date	Sample Collect Time	Matrix Type	Sample Preserve	No.,type* & size of container	602/8021 (BTEX,MTBE)	8015M (Gasoline)	8015M (Diesel) + oil	8260B (VOCs)	8260B (Oxygenates, BTEX)	8260B (MTBE Confirm.)							Remarks
BSB-2 4'	BL206038-1	6/6/02				3-40ml		X		X									
BSB-2 9'	-2	"				" "		X		X									
BSB-2 14'	-3	"				" "		X		X									
BSB-2 18'	-4	"				" "		X		X									
BSB-2 21'	-5	"				" "		X		X									
BSB-2 26.5'	-6	"				" "		X		X									
*MW-8 3.5'	-11	"				" "		X		X									
*MW-8 10'	-12	"				" "		X		X									
*MW-8 15'	-13	"				" "		X		X									
*MW-8 19'	-14	"				" "		X		X									
*MW-8 24'	-15	"				" "		X		X									
*MW-8 29'	-16	"				" "		X		X									
*MW-8 30'	-17	"				" "		X		X									
*MW-8 32.5'	-18	"				" "		X		X									
*MW-8 35'	-19	"				" "		X		X									
MW-8 40'	-20	"				" "		X		X									

Relinquished by	Company	Date	Time	Received by	Company
[signature]	BEII	6/6/02	3:15PM	[signature]	STS
Relinquished by	Company	Date	Time	Received by	Company

Container types: A=Air Bag, G=Glass bottle, M=Metal Tube, P=Plastic bottle, V=VOA vial

Southland Tech. Services, Inc.
11 Telegraph Road, Suite L & K
Montebello, CA 90640
Tel: (323) 888-0728
Fax: (323) 888-1509

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client's expense.
Distribution: WHITE with report, PINK to courier.

ANCHEM1656

SOUTHLAND TECHNICAL SERVICES, INC.

CHAIN OF CUSTODY RECORD

Lab Job Number BL206038

Client: Blakely Env. Inv., Inc.

Address: 9605 Arrow Route, Suite T Rancho Cucamonga CA 91730

Report Attention: | Phone: 909-989-9550 | Fax: 909-989-9556 | Sampled by: H.G.

Project Name/No.: | Project Site: Angeles Chemical Co.

T.A.T. Requested: ☐ Rush 8 12 24 hours ☐ 2-3 days ☒ Normal

Sample Condition: ☒ Chilled ☒ Intact ☐ Sample seals

Analyses Requested

Client Sample ID	Lab Sample ID	Sample Collect Date	Sample Collect Time	Matrix Type	Sample Preserve	No.,type* & size of container	602/8021 (BTEX,MTBE)	8015M (Gasoline)	8015M (Diesel) + oil	8260B (VOCs)	8260B (Oxygenates, BTEX)	8260B (MTBE Confirm.)	8270	Cam 17 Metals					Remarks
*MW-8 42.5'	BL206038-21	6/6/02				3-40mL		X		X									
BSB-2 1.5'	-7	6/6/02		Soil		1-3"x6"							X	X					
BSB-2 6.5'	-8	"		"		"							X	X					
BSB-2 11.5'	-9	"		"		"							X	X					
BSB-2 18'	-4	"		"		"			X										
BSB-2 21'	-5	"		"		"			X										
BSB-2 27.5'	-10	"		"		"			X										
*MW-8 1.5'	-22	"		"		"							X	X					
*MW-8 6.5'	-23	"		"		"							X	X					
*MW-8 11.5'	-24	"		"		"							X	X					
*MW-8 19'	-14	"		"		"			X										
*MW-8 24'	-15	"		"		"			X										
*MW-8 30'	-17	"		"		"			X										
*MW-8 32.5'	-18	"		"		"			X										
MW-8 35'	-19	"		"		"			X										
MW-8 40'	-20	"		"		"			X										

Inquished by	Company	Date	Time	Received by	Company
Susan Garcia	BEII	6/6/02	3:15PM	[signature]	STS
Inquished by	Company	Date	Time	Received by	Company

Container types: A=Air Bag, G=Glass bottle, M=Metal Tube, P=Plastic bottle, V=VOA vial

ANCHEM1657

hland Tech. Services, Inc.
Telegraph Road, Suite L & K
tebello, CA 90640
Tel: (323) 888-0728
Fax: (323) 888-1509

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client's expense.
Distribution: WHITE with report, PINK to courier.

SOUTHLAND TECHNICAL SERVICES, INC.

CHAIN OF CUSTODY RECORD

Lab Job Number BL206038

Client: Blakely Env. Inv., Inc.

Address: 9605 Arrow Route, Suite T, Rancho Cucamonga CA 91730

Report Attention: | Phone: 909 987-9550 | Fax: 909 989-9556 | Sampled by: A.C.

Project Name/No.: | Project Site: Angeles Chemical Co.

T.A.T. Requested: ☐ Rush 8 12 24 hours ☐ 2-3 days ☑ Normal

Sample Condition: ☑ Chilled ☑ Intact ☐ Sample seals

Analyses Requested

Client Sample ID	Lab Sample ID	Sample Collect Date	Sample Collect Time	Matrix Type	Sample Preserve	No.,type* & size of container	602/8021 (BTEX,MTBE)	8015M (Gasoline)	8015M (Diesel)	8260B (VOCs)	8260B (Oxygenates, BTEX)	8260B (MTBE Confirm.)	Remarks
*MW-8 425	BL206038-21	6/6/02		Soil	Ice	1-3"x6"			X				
Dup 4	-22	"				3-40ml		X		X			
Dup 5	-23	"				"		X		X			

Relinquished by	Company	Date	Time	Received by	Company
Brian Garcia	BEII	6/6/02	3:15PM	[illegible]	STS
Relinquished by	Company	Date	Time	Received by	Company

Container types: A=Air Bag, G=Glass bottle, M=Metal Tube, P=Plastic bottle, V=VOA vial

ANCHEM1658

hland Tech. Services, Inc.
Telegraph Road, Suite L & K
tebello, CA 90640
Tel: (323) 888-0728
Fax: (323) 888-1509

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client's expense.
Distribution: WHITE with report, PINK to courier.

STS

Southland Technical Services, Inc.
Environmental Laboratories

7801 Telegraph Road, Suite L
Montebello, CA 90640

Phone (323) 888-0728
Fax (323) 888-1509

07-01-2002

Mr. Hiram Garcia
Blakely Environmental Investigations, Inc.
9605 Arrow Highway, Suite T
Rancho Cucamonga, CA 91730

Project: Angeles Chemical Co.
Project Site: Angeles Chemical Co.
Sample Date: 06-07-2002
Lab Job No.: BL206048

Dear Mr. Garcia:

Enclosed please find the analytical report for the sample(s) received by STS Environmental Laboratories on 06-07-2002 and analyzed for the following parameters:

EPA 8015M (Total Petroleum Hydrocarbons)
EPA 8260B (VOCs by GC/MS)
EPA 8270C (Semi VOCs by GC/MS)
EPA 7000 Series for CAM Metals (TTLC)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

STS Environmental Laboratory is certified by CA DHS (Certificate Number 1986). Thank you for giving us the opportunity to serve you. Please feel free to call me at (323) 888-0728 if our laboratory can be of further service to you.

Sincerely,

Roger Wang, Ph. D.
Laboratory Director

Enclosures

This cover letter is an integral part of this analytical report.

STS

Southland Technical Services, Inc.
Environmental Laboratories

7801 Telegraph Road, Suite L
Montebello, CA 90640

Phone (323) 888-0728
Fax (323) 888-1509

07-01-2002

Client:	Blakely Environmental Investigations, Inc.	Lab Job No.:	BL206048
Project:	Angeles Chemical Co.		
Project Site:	Angeles Chemical Co.	Date Sampled:	06-07-2002
Matrix:	Soil	Date Received:	06-07-2002
Batch No.:	EF10-DS1	Date Analyzed:	06-10-2002

EPA Method 8015M (Total Petroleum Hydrocarbons)
Reporting Units: mg/kg (ppm)

Sample ID	Lab ID	DF	C13-C23 (Diesel)	C24-C40 (Heavy Oil)
Method Detection Limit			5	5
Practical Quantification Limit			10	10
Method Blank		1	ND	ND
MW-9 12.5'	BL206048-13	1	ND	ND
MW-9 20'	BL206048-4	1	ND	ND
MW-9 25'	BL206048-5	1	ND	ND
MW-9 30'	BL206048-14	1	ND	ND
MW-9 35'	BL206048-7	1	ND	ND
MW-9 40'	BL206048-8	1	ND	ND
MW-9 45'	BL206048-9	1	ND	ND
MW-9 50'	BL206048-10	1	ND	ND

* Gasoline Range TPH (C4-C12) is obtained from purge & trap analysis.

DF: Dilution Factor (**DF × MDL = Reporting Limit** or RL for the sample).

ND: Not Detected (below RL).

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Fax (323) 888-1509

07-01-2002

Client: Blakely Environmental Investigations, Inc.
Project: Angeles Chemical Co.
Project Site: Angeles Chemical Co.
Matrix: Soil
Preparation Method: EPA 5035(For TPH-gasoline)
Batch No.: CF12-GS1

Lab Job No.: BL206048

Date Sampled: 06-07-2002
Date Received: 06-07-2002
Date Prepared: 06-07-2002
Date Analyzed: 06-12-2002

EPA 8015M (Gasoline)
Reporting Units: mg/kg (ppm)

Sample ID	Lab ID	Gasoline (C4-C12)	Method Detection Limit	Reporting Limit
Method Blank		ND	0.5	1.0
MW-9 3'	BL206048-1	ND	0.5	1.0
MW-9 10'	BL206048-2	ND	0.5	1.0
MW-9 15'	BL206048-3	1.3	0.5	1.0
MW-9 20'	BL206048-4	ND	0.5	1.0
MW-9 25'	BL206048-5	ND	0.5	1.0
MW-9 29'	BL206048-6	ND	0.5	1.0
MW-9 35'	BL206048-7	ND	0.5	1.0
MW-9 40'	BL206048-8	ND	0.5	1.0
MW-9 45'	BL206048-9	ND	0.5	1.0
MW-9 50'	BL206048-10	ND	0.5	1.0
DUP-6	BL206048-15	ND	0.5	1.0

ND: Not Detected (at the specified limit)

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07-01-2002

Client:	Blakely Environmental Investigations, Inc.	Lab Job No.:	BL206048
Project:	Angeles Chemical Co.		
Project Site:	Angeles Chemical Co.	Date Sampled:	06-07-2002
Matrix:	Water	Date Received:	06-07-2002
Batch No.:	CF07-GW1	Date Analyzed:	06-07-2002

EPA 8015M (Gasoline)
Reporting Units: mg/L (ppm)

Sample ID	Lab ID	Gasoline (C4-C12)	Method Detection Limit	Reporting Limit
Method Blank		ND	0.05	0.05
Trip Blank	BL206048-17	ND	0.05	0.05

ND: Not Detected (at the specified limit)

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07-01-2002

Client:	Blakely Environmental Investigations, Inc.	Lab Job No.:	BL206048
Project:	Angeles Chemical Co.		
Project Site:	Angeles Chemical Co.	Date Sampled:	06-07-2002
Matrix:	Soil	Date Received:	06-07-2002
Batch No.:	0614-M1	Date Analyzed:	06-14-2002

EPA 7000 Series for CAM Metals (TTLC)
Reporting Units: mg/kg (ppm)

Element	EPA Method	Method Blank	MW-9 3'	MW-9 5.5'		MDL	PQL
			BL20648-1	BL20648-11			
Antimony (Sb)	7040	ND	ND	ND		5	10
Arsenic (As)	7060	ND	6.5	6.0		0.3	0.3
Barium (Ba)	7080	ND	357	578		2.5	5.0
Beryllium (Be)	7090	ND	ND	ND		1.3	2.5
Cadmium (Cd)	7130	ND	ND	ND		1.3	2.5
Chromium (Cr)	7190	ND	20.2	15.7		2.5	5.0
Cobalt (Co)	7200	ND	23	20.4		2.5	5.0
Copper (Cu)	7210	ND	36.4	32.2		2.5	5.0
Lead (Pb)	7420	ND	12	13		2.5	5.0
Mercury (Hg)	7471	ND	ND	ND		0.03	0.1
Molybdenum (Mo)	7480	ND	ND	ND		2.5	5.0
Nickel (Ni)	7520	ND	58.8	52.8		2.5	5.0
Selenium (Se)	7740	ND	ND	ND		0.3	0.3
Silver (Ag)	7760	ND	ND	ND		2.5	5.0
Thallium (Tl)	7840	ND	ND	ND		5.0	10
Vanadium (V)	7910	ND	41	36		2.5	5.0
Zinc (Zn)	7950	ND	116	104		2.5	5.0

ND: Not Detected (at the specified limit).

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Client: Blakely Environmental Investigations, Inc. Lab Job No.: BL206048 Date Reported: 07-01-2002
Project: Angeles Chemical Co. Matrix: Soil Date Sampled: 06-07-2002

EPA 8260B (VOCs by GC/MS, Page 1 of 2) Reporting Unit: ppb

DATE ANALYZED			06-12	06-12-02	06-12-02	06-12-02	06-12-02	06-12-02	
DILUTION FACTOR				1	1	1	1	1	
LAB SAMPLE I.D.				BL20648-1	BL20648-2	BL20648-3	BL20648-4	BL20648-5	
CLIENT SAMPLE I.D.				MW-9 3'	MW-9 10'	MW-9 15'	MW-9 20'	MW-9 25'	
COMPOUND	**MDL**	**PQL**	**MB**						
Dichlorodifluoromethane	5	10	ND	ND	ND	ND	ND	ND	
Chloromethane	5	10	ND	ND	ND	ND	ND	ND	
Vinyl Chloride	5	10	ND	ND	ND	ND	ND	ND	
Bromomethane	5	10	ND	ND	ND	ND	ND	ND	
Chloroethane	5	10	ND	ND	ND	ND	ND	ND	
Trichlorofluoromethane	5	10	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethene	5	5	ND	5.1	ND	ND	ND	ND	
Iodomethane	5	5	ND	ND	ND	ND	ND	ND	
Methylene Chloride	5	5	ND	ND	ND	ND	ND	ND	
trans-1,2-Dichloroethene	5	5	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethane	5	5	ND	5	ND	5.0	ND	15	
2,2-Dichloropropane	5	5	ND	ND	ND	ND	ND	ND	
cis-1,2-Dichloroethene	5	5	ND	17.6	ND	22.5	7.2	60.0	
Bromochloromethane	5	5	ND	ND	ND	ND	ND	ND	
Chloroform	5	5	ND	ND	ND	ND	ND	ND	
1,2-Dichloroethane	5	5	ND	ND	ND	ND	ND	ND	
1,1,1-Trichloroethane	5	5	ND	13.3	ND	ND	ND	7.6	
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	
1,1-Dichloropropene	5	5	ND	ND	ND	ND	ND	ND	
Benzene	2	5	ND	ND	ND	ND	ND	ND	
Trichloroethene	5	5	ND	6.7	ND	ND	ND	ND	
1,2-Dichloropropane	5	5	ND	ND	ND	ND	ND	ND	
Bromodichloromethane	5	5	ND	ND	ND	ND	ND	ND	
Dibromomethane	5	5	ND	ND	ND	ND	ND	ND	
trans-1,3-Dichloropropene	5	5	ND	ND	ND	ND	ND	ND	
cis-1,3-Dichloropropene	5	5	ND	ND	ND	ND	ND	ND	
1,1,2-Trichloroethane	5	5	ND	ND	ND	ND	ND	ND	
1,3-Dichloropropane	5	5	ND	ND	ND	ND	ND	ND	
Dibromochloromethane	5	5	ND	ND	ND	ND	ND	ND	
2-Chloroethylvinyl ether	10	10	ND	ND	ND	ND	ND	ND	
Bromoform	5	5	ND	ND	ND	ND	ND	ND	
Isopropylbenzene	5	5	ND	ND	ND	ND	ND	ND	
Bromobenzene	5	5	ND	ND	ND	ND	ND	ND	

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Client: Blakely Environmental Investigations, Inc. Lab Job No.: BL206048 Date Reported: 07-01-2002

EPA 8260B (VOCs by GC/MS, Page 2 of 2) Reporting Unit: (ppb)

COMPOUND	MDL	PQL	MB	MW-9 3'	MW-9 10'	MW-9 15'	MW-9 20'	MW-9 25'	
Toluene	2	5	ND	ND	ND	ND	ND	ND	
Tetrachloroethene	5	5	ND	24.8	ND	ND	ND	ND	
1,2-Dibromoethane(EDB)	5	5	ND	ND	ND	ND	ND	ND	
Chlorobenzene	5	5	ND	ND	ND	ND	ND	ND	
1,1,1,2-Tetrachloroethan	5	5	ND	ND	ND	ND	ND	ND	
Ethylbenzene	2	5	ND	ND	ND	ND	ND	ND	
Total Xylenes	2	5	ND	ND	ND	ND	ND	ND	
Styrene	5	5	ND	ND	ND	ND	ND	ND	
1,1,2,2-Tetrachloroethan	5	5	ND	ND	ND	ND	ND	ND	
1,2,3-Trichloropropane	5	5	ND	ND	ND	ND	ND	ND	
n-Propylbenzene	5	5	ND	ND	ND	ND	ND	ND	
2-Chlorotoluene	5	5	ND	ND	ND	ND	ND	ND	
4-Chlorotoluene	5	5	ND	ND	ND	ND	ND	ND	
1,3,5-Trimethylbenzene	5	5	ND	ND	ND	ND	ND	ND	
tert-Butylbenzene	5	5	ND	ND	ND	ND	ND	ND	
1,2,4-Trimethylbenzene	5	5	ND	ND	ND	ND	ND	ND	
Sec-Butylbenzene	5	5	ND	ND	ND	ND	ND	ND	
1,3-Dichlorobenzene	5	5	ND	ND	ND	ND	ND	ND	
p-Isopropyltoluene	5	5	ND	ND	ND	ND	ND	ND	
1,4-Dichlorobenzene	5	5	ND	ND	ND	ND	ND	ND	
1,2-Dichlorobenzene	5	5	ND	ND	ND	ND	ND	ND	
n-Butylbenzene	5	5	ND	ND	ND	ND	ND	ND	
1,2,4-Trichlorobenzene	5	5	ND	ND	ND	ND	ND	ND	
1,2-Dibromo-3-Chloropropane	5	5	ND	ND	ND	ND	ND	ND	
Hexachlorobutadiene	5	5	ND	ND	ND	ND	ND	ND	
Naphthalene	5	5	ND	ND	ND	ND	ND	ND	
1,2,3-Trichlorobenzene	5	5	ND	ND	ND	ND	ND	ND	
Acetone	25	50	ND	ND	ND	ND	ND	ND	
2-Butanone (MEK)	25	50	ND	ND	ND	ND	ND	ND	
Carbon disulfide	25	50	ND	ND	ND	ND	ND	ND	
4-Methyl-2-pentanone	25	50	ND	ND	ND	ND	ND	ND	
2-Hexanone	25	50	ND	ND	ND	ND	ND	ND	
Vinyl Acetate	25	50	ND	ND	ND	ND	ND	ND	
MTBE	5	5	ND	ND	ND	ND	ND	ND	
ETBE	5	5	ND	ND	ND	ND	ND	ND	
DIPE	5	5	ND	ND	ND	ND	ND	ND	
TAME	5	5	ND	ND	ND	ND	ND	ND	
T-Butyl Alcohol	20	30	ND	ND	ND	ND	ND	ND	

MDL=Method Detection Limit; MB=Method Blank; ND=Not Detected (below DF × PQL).

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Client: Blakely Environmental Investigations, Inc. Lab Job No.: BL206048 Date Reported: 07-01-2002
Project:Angeles Chemical Co. Matrix: Soil Date Sampled: 06-07-2002

EPA 8260B (VOCs by GC/MS, Page 1 of 2) Reporting Unit: ppb

		DATE ANALYZED	06-12-02	06-12-02	06-12-02	06-12-02	06-12-02	06-12-02
		DILUTION FACTOR	1	1	1	1	1	10
		LAB SAMPLE I.D.	BL20648-6	BL20648-7	BL20648-8	BL20648-9	BL20648-10	BL20648-15
		CLIENT SAMPLE I.D.	MW-9 29'	MW-9 35'	MW-9 40'	MW-9 45'	MW-9 50'	DUP 6
COMPOUND	MDL	PQL						
Dichlorodifluoromethane	5	10	ND	ND	ND	ND	ND	ND
Chloromethane	5	10	ND	ND	ND	ND	ND	ND
Vinyl Chloride	5	10	ND	ND	ND	ND	ND	ND
Bromomethane	5	10	ND	ND	ND	ND	ND	ND
Chloroethane	5	10	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	5	10	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	5	33	85	27	12	21.8	30
Iodomethane	5	5	ND	ND	ND	ND	ND	ND
Methylene Chloride	5	5	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	5	95	88	26	5.7	ND	73
2,2-Dichloropropane	5	5	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	5	400	68	19	5	ND	50
Bromochloromethane	5	5	ND	ND	ND	ND	ND	ND
Chloroform	5	5	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	5	5	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	5	35	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	5	5	ND	ND	ND	ND	ND	ND
Benzene	2	5	ND	ND	ND	ND	ND	ND
Trichloroethene	5	5	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	5	5	ND	ND	ND	ND	ND	ND
Bromodichloromethane	5	5	ND	ND	ND	ND	ND	ND
Dibromomethane	5	5	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	5	5	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	5	5	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	5	5	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	5	5	ND	ND	ND	ND	ND	ND
Dibromochloromethane	5	5	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	10	10	ND	ND	ND	ND	ND	ND
Bromoform	5	5	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5	5	ND	ND	ND	ND	ND	ND
Bromobenzene	5	5	ND	ND	ND	ND	ND	ND

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Client: Blakely Environmental Investigations, Inc. Lab Job No.: BL206048 Date Reported: 07-01-2002

EPA 8260B (VOCs by GC/MS, Page 2 of 2) Reporting Unit: (ppb)

COMPOUND	MDL	PQL	MW-9 29'	MW-9 35'	MW-9 40'	MW-9 45'	MW-9 50'	DUP 6
Toluene	2	5	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	5	ND	ND	5.6	ND	ND	ND
1,2-Dibromoethane(EDB)	5	5	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	5	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethan	5	5	ND	ND	ND	ND	ND	ND
Ethylbenzene	2	5	ND	ND	ND	ND	ND	ND
Total Xylenes	2	5	ND	ND	ND	ND	ND	ND
Styrene	5	5	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethan	5	5	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	5	5	ND	ND	ND	ND	ND	ND
n-Propylbenzene	5	5	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	5	5	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	5	5	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	5	5	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	5	5	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	5	5	ND	ND	ND	ND	ND	ND
Sec-Butylbenzene	5	5	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	5	5	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	5	5	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	5	5	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	5	5	ND	ND	ND	ND	ND	ND
n-Butylbenzene	5	5	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5	5	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane	5	5	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	5	5	ND	ND	ND	ND	ND	ND
Naphthalene	5	5	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	5	5	ND	ND	ND	ND	ND	ND
Acetone	25	50	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	25	50	ND	ND	ND	ND	ND	ND
Carbon disulfide	25	50	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	25	50	ND	ND	ND	ND	ND	ND
2-Hexanone	25	50	ND	ND	ND	ND	ND	ND
Vinyl Acetate	25	50	ND	ND	ND	ND	ND	ND
MTBE	5	5	ND	ND	ND	ND	ND	ND
ETBE	5	5	ND	ND	ND	ND	ND	ND
DIPE	5	5	ND	ND	ND	ND	ND	ND
TAME	5	5	ND	ND	ND	ND	ND	ND
T-Butyl Alcohol	20	30	ND	ND	ND	ND	ND	ND

MDL=Method Detection Limit; MB=Method Blank; ND=Not Detected (below DF × PQL).

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Client: Blakely Environmental Investigations, Inc. Lab Job No.: BL206048 Date Reported: 07-01-2002
Project: Angeles Chemical Co. Matrix: Soil Date Sampled: 06-07-2002

EPA 8270C (Semi-VOCs by GC/MS, Page 1 of 2)
Reporting Unit: mg/kg (ppm)

DATE ANALYZED			06-14	06-14-02	06-14-02		
DATE EXTRACTED			06-14	06-14-02	06-14-02		
EXTRACTION METHOD			3550B	3550B	3550B		
DILUTION FACTOR			1	1	1		
LAB SAMPLE I.D.				BL20648-1	BL20648-11		
CLIENT SAMPLE I.D.				MW-9 3'	MW-9 5.5'		
COMPOUND	**MDL**	**PQL**	**MB**				
Phenol	0.25	0.50	ND	ND	ND		
Bis(2-chloroethyl) ether	0.25	0.50	ND	ND	ND		
2-Chlorophenol	0.25	0.50	ND	ND	ND		
1,3-Dichlorobenzene	0.25	0.50	ND	ND	ND		
1,4-Dichlorobenzene	0.25	0.50	ND	ND	ND		
Benzyl alcohol	0.25	0.50	ND	ND	ND		
1,2-Dichlorobenzene	0.25	0.50	ND	ND	ND		
2-Methylphenol (o-cresol)	0.25	0.50	ND	ND	ND		
Bis(2-chloroisopropyl)ether	0.25	0.50	ND	ND	ND		
N-Nitrosodi-n-propylamine	0.25	0.50	ND	ND	ND		
4-Methylphenol (p-cresol)	0.25	0.50	ND	ND	ND		
Hexachloroethane	0.25	0.50	ND	ND	ND		
Nitrobenzene	0.25	0.50	ND	ND	ND		
Isophorone	0.25	0.50	ND	ND	ND		
2-Nitrophenol	0.25	0.50	ND	ND	ND		
2,4-Dimethylphenol	0.25	0.50	ND	ND	ND		
Bis(2-chloroethoxy)methane	0.25	0.50	ND	ND	ND		
2,4-Dichlorophenol	0.25	0.50	ND	ND	ND		
Benzoic acid	0.25	0.50	ND	ND	ND		
1,2,4-Trichlorobenzene	0.25	0.50	ND	ND	ND		
Naphthalene	0.25	0.50	ND	ND	ND		
4-Chloroaniline	0.25	0.50	ND	ND	ND		
Hexachlorobutadiene	0.25	0.50	ND	ND	ND		
4-Chloro-3-methylphenol	0.25	0.50	ND	ND	ND		
2-Methylnaphthalene	0.25	0.50	ND	ND	ND		
Hexachlorocyclopentadiene	0.25	0.50	ND	ND	ND		
2,4,6-Trichlorophenol	0.25	0.50	ND	ND	ND		
2,4,5-Trichlorophenol	0.25	0.50	ND	ND	ND		
2-Chloronaphthalene	0.25	0.50	ND	ND	ND		
2-Nitroaniline	0.25	0.50	ND	ND	ND		
Dimethylphthalate	0.25	0.50	ND	ND	ND		

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Client: Blakely Environmental Investigations, Inc. Lab Job No.: BL206048 Date Reported: 07-01-2002
Project: Angeles Chemical Co. Matrix: Soil Date Sampled: 06-07-2002

EPA 8270C (Semi-VOCs by GC/MS, Page 2 of 2) Reporting Unit: mg/kg(ppm)

CLIENT SAMPLE I.D.				MW-9 3'	MW-9 5.5'		
COMPOUND	**MDL**	**PQL**	**MB**				
Acenaphthylene	0.25	0.50	ND	ND	ND		
2,6-Dinitrotoluene	0.25	0.50	ND	ND	ND		
3-Nitroaniline	0.25	0.50	ND	ND	ND		
Acenaphthene	0.25	0.50	ND	ND	ND		
2,4-Dinitrophenol	0.25	0.50	ND	ND	ND		
Dibenzofuran	0.25	0.50	ND	ND	ND		
4-Nitrophenol	0.25	0.50	ND	ND	ND		
2,4-Dinitrotoluene	0.25	0.50	ND	ND	ND		
Fluorene	0.25	0.50	ND	ND	ND		
Diethylphthalate	0.25	0.50	ND	ND	ND		
4-Chlorophenyl phenyl ether	0.25	0.50	ND	ND	ND		
4-Nitroaniline	0.25	0.50	ND	ND	ND		
4,6-Dinitro-2-methylphenol	0.25	0.50	ND	ND	ND		
N-Nitrosodiphenylamine	0.25	0.50	ND	ND	ND		
4-Bromophenyl-phenyl ether	0.25	0.50	ND	ND	ND		
Hexachlorobenzene	0.25	0.50	ND	ND	ND		
Pentachlorophenol	0.25	0.50	ND	ND	ND		
Phenanthrene	0.25	0.50	ND	ND	ND		
Anthracene	0.25	0.50	ND	ND	ND		
Di-n-butylphthalate	0.25	0.50	ND	ND	ND		
Fluoranthene	0.25	0.50	ND	ND	ND		
Pyrene	0.25	0.50	ND	ND	ND		
Butyl benzylphthalate	0.25	0.50	ND	ND	ND		
Benzo(a)anthracene	0.25	0.50	ND	ND	ND		
3,3'-Dichlorobenzidine	0.25	0.50	ND	ND	ND		
Chrysene	0.25	0.50	ND	ND	ND		
Bis(2-Ethylhexyl)phthalate	0.25	0.50	ND	ND	ND		
Di-n-octylphthalate	0.25	0.50	ND	ND	ND		
Benzo(b)fluoranthene	0.25	0.50	ND	ND	ND		
Benzo(k)fluoranthene	0.25	0.50	ND	ND	ND		
Benzo(a)pyrene	0.25	0.50	ND	ND	ND		
Indeno(1,2,3-cd)pyrene	0.25	0.50	ND	ND	ND		
Dibenz(a,h)anthracene	0.25	0.50	ND	ND	ND		
Benzo(g,h,i)perylene	0.25	0.50	ND	ND	ND		

MB=Method Blank; MDL=Method Detection Limit; ND=Not Detected (below DF × MDL).

STS

Southland Technical Services, Inc.
Environmental Laboratories

7801 Telegraph Road, Suite L
Montebello, CA 90640

Phone (323) 888-0728
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07-01-2002

EPA 8270C
Batch QA/QC Report

Client: Blakely Environmental Investigations, Inc.
Project: Angeles Chemical Co.
Matrix: Soil
Batch No: 0614-BNA

Lab Job No.: BL206048
Lab Sample ID: 06-07-2002
Date Analyzed: 06-14-2002

MS/MSD Report
Unit: ppm

Compound	MB	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
Phenol	ND	10	7.96	7.67	79.6	76.7	3.7	40	12-130
2-Chlorophenol	ND	10	7.17	7.11	71.7	71.1	0.8	40	24-134
1,4-Dichloro-benzene	ND	5.0	3.23	3.65	64.6	73.0	12.2	40	36-124
n-Nitroso-di-n-propylamine	ND	5.0	3.97	4.40	79.4	88.0	10.3	40	41-230
1,2,4-Trichlorobenzene	ND	5.0	3.22	4.02	64.4	80.4	22.1	40	44-142
4-Chloro-3-methylphenol	ND	10	6.08	7.46	60.8	74.6	20.4	40	22-147
Acenaphthene	ND	5.0	3.70	4.04	74.0	80.8	8.8	40	47-145
4-Nitrophenol	ND	10	7.88	6.77	78.8	67.7	15.2	58	12-132
2,4-Dinitro-toluene	ND	5.0	3.57	4.46	71.4	89.2	22.2	40	39-139
Pentachloro-phenol	ND	10	8.05	12.3	80.5	123.0	41.8	51	14-176
Pyrene	ND	5.0	2.44	2.48	48.8	49.6	1.6	30	26-130

ND: Not Detected

STS

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07-01-2002

EPA 8015M (TPH)
Batch QA/QC Report

Client:	Blakely Environmental Investigations, Inc.	Lab Job No.:	BL206048
Project:	Angeles Chemical Co.		
Matrix:	Soil	Sample ID:	BL206038-5
Batch No:	EF10-DS1	Date Analyzed:	06-10-2002

I. MS/MSD Report
Unit: ppm

Compound	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
TPH-d	ND	200	186	189	93.0	94.5	1.6	30	70-130

II. LCS Result
Unit: ppm

Compound	LCS Report Value	True Value	Rec.%	Accept. Limit
TPH-d	200	200	100.0	80-120

ND: Not Detected (at the specified limit)

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07-01-2002

EPA 8015M (TPH)
Batch QA/QC Report

Client:	Blakely Environmental Investigations, Inc.	Lab Job No.:	BL206048
Project:	Angeles Chemical Co.		
Matrix:	Soil	Sample ID:	BL206048-9
Batch No:	CF12-GS1	Date Analyzed:	06-12-2002

I. MS/MSD Report
Unit: ppb

Compound	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
TPH-Gasoline	ND	5,000	4,180	5,050	83.6	101.0	18.9	30	70-130

II. LCS Result
Unit: ppb

Compound	LCS Report Value	True Value	Rec.%	Accept. Limit
TPH-Gasoline	922	1000	92.2	80-120

ND: Not Detected (at the specified limit)

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07-01-2002

EPA 8260B
Batch QA/QC Report

Client:	Blakely Environmental Investigations, Inc.	Lab Job No.:	BL206048
Project:	Angeles Chemical Co.		
Matrix:	Soil	Lab Sample ID:	BL206048-5
Batch No:	0612-VOAS	Date Analyzed:	06-12-2002

I. MS/MSD Report
Unit: ppb

Compound	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
1,1-Dichloroethene	ND	20	24.2	25.8	121.0	129.0	6.4	30	70-130
Benzene	ND	20	17.4	21.8	87.0	109.0	22.4	30	70-130
Trichloro-ethene	ND	20	23.9	25.0	119.5	125.0	4.5	30	70-130
Toluene	ND	20	18.8	20.9	94.0	104.5	10.6	30	70-130
Chlorobenzene	ND	20	20.0	23.2	100.0	116.0	14.8	30	70-130

II. LCS Result
Unit: ppb

Analyte	LCS Value	True Value	Rec.%	Accept. Limit
1,1-Dichloroethene	50.6	50.0	101.2	80-120
Benzene	40.2	50.0	80.4	80-120
Trichloro-ethene	49.8	50.0	99.6	80-120
Toluene	48.0	50.0	96.0	80-120
Chlorobenzene	46.2	50.0	92.4	80-120

ND: Not Detected.

SOUTHLAND TECHNICAL SERVICES, INC.

CHAIN OF CUSTODY RECORD

Lab Job Number BL206048

Client: Blakely Env. Inv., Inc.

Address: 9605 Arrow Route, Suite T Rancho Cucamonga, CA 91730

Report Attention:

Phone: 909 989-9550

Fax: 909 989-9552

Sampled by: A.G.

Project Name/No.:

Project Site: Angeles Chemical Co.

T.A.T. Requested: ☐ Rush 8 12 24 hours ☐ 2-3 days ☒ Normal

Sample Condition: ☒ Chilled ☒ Intact ☐ Sample seals

Client Sample ID	Lab Sample ID	Sample Collect Date	Sample Collect Time	Matrix Type	Sample Preserve	No.,type* & size of container	602/8021 (BTEX,MTBE)	8015M (Gasoline)	8015M (Diesel)	8260B (VOCs)	8260B (Oxygenates, BTEX)	8260B (MTBE Confirm.)	8270	Cam 17 metals					Remarks
MW-9 3'	BL206048-1	6/7/02		Soil	Ice	1-3"x6"							X	X					
MW-9 5.5'	-12	"		"	"	"							X	X					
MW-9 9'	-12	"		"	"	"							X	X					
MW-9 12.5'	-13	"		"	"	"			X										
MW-9 20'	-4	"		"	"	"			X										
MW-9 25'	-5	"		"	"	"			X										
MW-9 30'	-14	"		"	"	"			X										
MW-9 35'	-7	"		"	"	"			X										
MW-9 40'	-8	"		"	"	"			X										
MW-9 45'	-09	"		"	"	"			X										
MW-9 50'	-10	"		"	"	"			X										
MW-9 3'	-1	"				3 40mL		X		X									
MW-9 10'	-2	"				"		X		X									
MW-9 15'	-3	"				"		X		X									
MW-9 20'	-4	"				"		X		X									
MW-9 25'	-5	"				"		X		X									

Relinquished by	Company	Date	Time	Received by	Company
[illegible]	PEI	6/7/02	2:30 PM	[illegible]	STS
Relinquished by	Company	Date	Time	Received by	Company

Container types: A=Air Bag, G=Glass bottle, M=Metal Tube, P=Plastic bottle, V=VOA vial

Southland Tech. Services, Inc.
[illegible] Telegraph Road, Suite L & K
[illegible]tebello, CA 90640
Tel: (323) 888-0728
Fax: (323) 888-1509

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client's expense.
Distribution: WHITE with report, PINK to courier.

ANCHEM1674

SOUTHLAND TECHNICAL SERVICES, INC.

CHAIN OF CUSTODY RECORD

Lab Job Number BL206048

Client: Blakely Env. Inv. Inc.

Address: 9605 Arrow Route, Suite T, Rancho Cucamonga, CA 91730

Report Attention:

Phone: 909 989-9550

Fax: 909 989-9556

Sampled by: A.G.

Project Name/No.:

Project Site: Angeles Chemical Co.

T.A.T. Requested: ☐ Rush 8 12 24 hours ☐ 2-3 days ☒ Normal

Sample Condition: ☒ Chilled ☒ Intact ☐ Sample seals

Client Sample ID	Lab Sample ID	Sample Collect Date	Sample Collect Time	Matrix Type	Sample Preserve	No.,type* & size of container	602/8021 (BTEX,MTBE)	8015M (Gasoline)	8015M (Diesel)	8260B (VOCs)	8260B (Oxygenates, BTEX)	8260B (MTBE Confirm.)							Remarks
MW-9 29'	BL206048-6	6/1/02				3 40ml		X		X									
MW-9 35'	-7	"				"		X		X									
MW-9 40'	-8	"				"		X		X									
MW-9 45'	-9	"				"		X		X									
MW-9 50'	-10	"				"		X		X									
Dup 6	-15							X		X									

Relinquished by	Company	Date	Time	Received by	Company
[signature]	BEII	6/1/02	2:30PM	[signature]	STS

Container types: M=Metal Tube, A=Air Bag, P=Plastic bottle, G=Glass bottle, V=VOA vial

hland Tech. Services, Inc.
Telegraph Road, Suite L & K
tebello, CA 90640
Tel: (323) 888-0728
Fax: (323) 888-1509

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client's expense.
Distribution: WHITE with report, PINK to courier.

ANCHEM1675