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SUBSURFACE ENVIRONMENTAL
INVESTIGATION OF SOIL
AT:

**363 WEST 133RD STREET
LOS ANGELES, CALIFORNIA**

PREPARED FOR:

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EXECUTIVE SUMMARY

Subsurface environmental assessment of soil has been conducted by Aqua Science Engineers at 363 West 133rd Street, Los Angeles, California (TADCO). The purpose of the assessment was to further investigate the presence of petroleum hydrocarbon, volatile and semi-volatile organic chemical contamination in soil at the subject site. Previous environmental investigations have indicated soil beneath the site has been impacted with petroleum hydrocarbon and organic chemical contamination.

Volatile organic chemical compounds detected in soil samples collected from borings drilled at the TADCO site include acetone, vinyl chloride, trichloroethene, toluene, ethylbenzene, total xylenes, chlorobenzene, 1,2-dichlorobenzene, 1,3-dichlorobenzene and 1,4-dichlorobenzene. TPH-gasoline and PCB have also been detected in soil samples collected at the site. Potential sources of the chemical contamination include a septic system formerly used by TADCO and a ±12 foot deep concrete pit located on the adjacent LA Industrial Services/Standard Metals site.

Shallow subsurface soil beneath the TADCO site has been impacted with diesel fuel-range petroleum hydrocarbons. The extent of the diesel fuel contamination appears to be limited to soil above five feet BGS. The source of the diesel fuel in shallow soil appears to be spillage from above-ground storage tank formerly used by TADCO to contain a diesel fuel-range petroleum hydrocarbon product.

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1.0 INTRODUCTION

The following report documents the methods and results of a subsurface environmental assessment of soil conducted by Aqua Science Engineers, Inc., (ASE) at 363 W. 133rd Street, Los Angeles, California (TADCO site, Figures 1 and 2). ASE was retained by Mr. Patrick Rendon, Esq., to perform the assessment. The purpose of the assessment was to further investigate the extent and magnitude of petroleum hydrocarbon and organic chemical contamination in soil at the TADCO site. Field work for this investigation was conducted on May 21 and 22, 1996. Previous investigative work conducted by ASE in the subject area is documented in the following reports:

- September 1, 1996, *Soil Contamination Assessment Investigation Report for B.I.G./TADCO Site Located at 363 West 133rd Street, Los Angeles, California*
- May 6, 1996, *Subsurface Environmental Investigation of Soil at 13255 South Broadway, Los Angeles California*

2.0 SITE SETTING AND PROJECT BACKGROUND

2.1 Site Setting

The TADCO site is an industrial property occupying an area of approximately one-half acre at 363 West 133rd Street, approximately 1,800 feet south of El Segundo Boulevard and 2,000 feet east of Interstate 110 (Figure 1). The TADCO site is bounded on the north and east by industrial properties, on the south by 133rd Street, and on the west by LA Industrial Service/Standard Metals at 378 West 133rd Street.

2.2 Previous Subsurface Environmental Investigations

Previous subsurface environmental investigations have been conducted in relation to contamination discovered at the TADCO site by Environmental Resolutions, Inc., (ERI) and ASE. A relatively wide variety of chemical contaminants were discovered in soil beneath the TADCO site by these investigations. In particular, high concentrations of acetone were detected in soil samples collected between 10 and 45 feet below the ground surface (BGS) at the TADCO site. According to a June 1995 Phase-I Environmental Disclosure Report by NATEC, Inc., TADCO personnel have stated that they do not use acetone in their chemical mixing process. Provided below are summaries of the findings of the ERI and ASE investigations.

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2.2.1 August 1990 Assessment by Environmental Resolutions, Inc. (ERI)

During August 1990, ERI drilled twelve soil borings to investigate soil contamination at the TADCO site (Figure 3). Ten of the borings were drilled at the TADCO site. Two soil borings (B6 and B7) were drilled in the west parking area of the property located directly east of the TADCO site. The soil borings were drilled to depths between 20 and 55 feet BGS. The chemical analyses of soil samples collected from the borings indicated concentration of total petroleum hydrocarbons as gasoline were present ranging between 2 mg/kg (parts per million) and 1,900 mg/kg. The ten foot depth sample from boring B2 contained an acetone concentration of 10,000 mg/kg. The 20 foot depth sample from boring B2 contained 55,000 mg/kg acetone.

2.2.2 August 1995 Assessment by Aqua Science Engineers, Inc.

During August 1995, ASE drilled four soil borings at the TADCO site to further investigate the extent and magnitude of soil contamination discovered during the ERI investigation (borings B13 through B16, Figure 3). Soil borings B13 and B16 were drilled to 40 feet BGS. Soil borings B14 and B15 were drilled to 50 feet and 45 feet BGS, respectively. Groundwater was encountered at approximately 45 feet BGS. Strong chemical odors were noted in soil from directly beneath the surface to 45 feet BGS in boring B14. Strong chemical odors were noted in soil from approximately 35 feet to 50 feet BGS in boring B15.

Selected soil samples collected from the borings drilled by ASE were analyzed for total volatile petroleum hydrocarbons as gasoline (TPH-G) by EPA method 8015M, for volatile organic chemical compounds by EPA method 8240, and for polychlorinated biphenyls (PCBs) by EPA method 8080.

A relatively wide variety of chemical compounds were detected in soil samples collected from borings B13 through B16 including acetone, vinyl chloride, trans-1,2-dichloroethene, 2-butanone (MEK), trichloroethene, toluene, ethylbenzene and total xylenes. Concentrations of acetone detected in the soil samples from borings B14 and B15 drilled at the TADCO site ranged between 92 µg/kg (parts per billion) to 1,270,000 µg/kg. A summary of the data for the EPA 8240 analyses for soil samples collected from borings B13 through B16 is provided in Table 1.

PCBs (Aroclor-1242 and 1260) were detected in the 5 foot depth sample from boring B14 at 3,050 µg/kg and 108 µg/kg, respectively. The highest concentration of TPH-G was detected in the 5 foot depth sample from boring B14 at 870 mg/kg. The remaining samples from this boring contained trace concentration of TPH-G ranging below 10 mg/kg. TPH-G was detected in the 40 and 45 foot depth samples from boring B15 at 20 mg/kg and 54 mg/kg, respectively.

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2.2.3 April 1996 Assessment by Aqua Science Engineers, Inc.

During April, 1996, ASE drilled four soil borings on the western parking area of the property located at 13255 South Broadway (South Broadway site, Figure 3). This property located directly east of the TADCO site. The purpose of the assessment was to investigate whether the contamination detected in soil at the TADCO site had impacted soil beneath the 13255 South Broadway property.

Based on the results of the chemical analyses conducted for April 1996 investigation, ASE concluded that the high concentrations of acetone detected in borings B2, B14 and B15 drilled at the TADCO site had not impacted soil to a depth of 40 feet BGS at the South Broadway site. It is unclear whether the low concentration of acetone detected in the 10 foot depth sample from boring B17 was related to the acetone detected in samples from borings B2, B14 and B15.

3.0 GEOLOGY AND HYDROLOGY

3.1 Regional Geology and Hydrology

The subject site is located on the southwestern end of the Rosecrans Hills near the eastern boundary of the Southwestern Block of the Los Angeles Basin. The Rosecrans Hills are the most prominent surface expression of the Newport-Inglewood Uplift in the subject site vicinity. The Newport-Inglewood Fault is the structural boundary between the Southwestern and Central Blocks of the Los Angeles Basin and is included in the *Alquist-Priolo Special Studies Zone Program*. The Newport-Inglewood Uplift acts as a barrier to groundwater flow in deep confined aquifers underlying the region. The subject site is also located within the Rosecrans Oil Field.

The subject site is also located near the eastern edge of the West Coast Hydrologic Basin which extends south-southwest from the Newport-Inglewood Fault Zone to the Santa Monica Bay, and north-northwest to the Ballona Escarpment and Baldwin Hills. The shallowest known regional aquifer beneath the subject site is the Gage Aquifer located approximately 150 feet BGS. Based on the information contained in *Department of Water Resources Bulletin No. 104*. Regional deep groundwater flow in the vicinity is generally south-southwest.

3.2 Subject Site Geology and Hydrology

The 1964 Inglewood, California Quadrangle 7.5-minute U.S.G.S series topographic map indicates that the subject site is located on a plateau on the southeastern side of the Rosecrans Hills at a ground surface elevation of approximately 125 feet AMSL (Figure 1). A swale, or

drainage depression, appears to extend from north to south through the middle of the TADCO site. The drainage depression appears to receive surface waters from areas north and west of the swale. Surface waters apparently flow towards the south to 133rd Street through the drainage depression.

Los Angeles County well number 1408E is located on the corner of 122nd Street and Berendo Avenue, approximately 5,400 feet northwest of subject site. According to information provided by the County of Los Angeles Department of Hydrologic Records, the well had a depth to groundwater surface of 166.5 feet below top of well casing on May 15, 1994. The top of well casing elevation was 126.0 feet AMSL. Therefore, the groundwater surface elevation in the well was 40.5 feet below mean sea level (BMSL). The County of Los Angeles Department of Public Works Coastal Plain Deep Aquifer Groundwater Contour Map for Fall 1989 shows that deep groundwater in the vicinity of the subject site flows towards the south to southwest.

The apparent native soil types encountered during drilling by ASE beneath the subject area consisted primarily of fine sand, silty fine sands, sandy silts, and some silt and clay. What appears to be artificial fill was encountered beneath the subject area to depths between approximately 9 feet and 15 feet BGS in borings B17, B18, and B24 through B27. The artificial fill contains concrete, asphalt, glass, brick, tile and wood debris, and appears to encompass the northern 3/4 of the subject site. Drill refusal, apparently caused by the concrete debris, was encountered between 5 and 10 feet BGS prior to the successfully drilling borings B18 and B25 to their intended depths. Strong sewage-like odor was encountered in soil from borings B22 and B23. Detailed descriptions of the soil types encountered during drilling boring B21 through B27 are provided on the soil boring logs (Appendix I). Geologic cross-section diagrams incorporating borings drilled at the TADCO and South Broadway sites are provided as Figures 4 and 5.

Water-bearing soils were encountered in borings B21 through B27 at depths between 43 and 45 feet BGS at the TADCO site. A thin, perched water-bearing zone was encountered between 20 and 23 feet BGS in borings B17 at the South Broadway site, and B26 at the TADCO site. Soil at 25 BGS in borings B17 and B26 was relatively dry. The thin water-bearing zone was not encountered in other soil borings drilled by ASE at the subject sites. The direction of the shallow groundwater flow, and the aerial extent of the water-bearing zones, have not been determined by this investigation.

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4.0 INVESTIGATIVE METHODS

4.0 Drilling Methods

Field activities for this investigation performed by ASE at the TADCO site were conducted on May 17, 21 and 22, 1996. The locations of the soil borings drilled by ASE are indicated on Figure 3. All drilling and soil sampling activities were supervised by a California Registered Geologist employed by Aqua Science Engineers, Inc.

Soil borings B21 through B27 were drilled on May 21, 1996, using two CME-75 truck-mounted drill rigs equipped with 8.25-inch diameter continuous flight, hollow stem auger. These borings were drilled to 45 feet BGS. Soil boring B21 was drilled off-site on 133rd Street, adjacent to the General Welding site. Borings B22 through B27 were drilled on the TADCO site. All drilling equipment was steam cleaned before use. Soil borings B21, B22, B24, B25 and B26 were backfill with soil cuttings and capped with concrete. Soil borings B23 and B27 were covered with anchored plywood for possible later installation of vapor extraction wells. Soil cuttings from boring B23 and B27 and excess drill cuttings from the remaining borings, were placed in 55 gallon DOT class 17H steel drums and stored on-site.

Soil borings HA1 through HA7 were drilled by ASE on May 17, 1996, using an Arts Manufacturing hand-auger. Soil borings HA9 and HA10 were drilled by ASE on May 22, 1996, also using a hand auger. The hand auger borings were drilled to one foot BGS. All hand auger equipment was thoroughly cleaned before use by washing with a detergent and water solution. The hand auger borings were backfilled with soil cuttings.

4.2 Soil Sample Collection

Split sets of soil samples were collected in drill rig borings B21 through B27 using a 1.5 inch inside diameter split spoon sampler holding pre-cleaned brass sample tubes. The split spoon sampler was washed with a non-phosphate detergent and water solution, then rinsed with clean tap water between sample collections. The sampler was driven into undisturbed soil in advance of the hollow stem auger using a hydraulic hammer. Soil samples were collected at 10 foot depth intervals between 10 feet and 40 feet BGS, and at 45 feet BGS, in boring B21. Soil samples were collected at 5 foot depth intervals between 5 feet BGS and 45 feet BGS in boring B22 through B27. One set of soil samples was secured with aluminum foil, plastic end-caps and tape. The secured samples were logged on a chain-of-custody form and then placed in an ice chest for temporary cold storage. Soil from the second tube of each sample interval was placed

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in Zip-Loc™ plastic bags and examined for soil classification, general moisture content and obvious odor or staining. Soil observations were recorded on the soil boring logs (Appendix I).

Soil samples were collected at a depth of approximately one foot BGS in hand-auger borings HA1 through HA10. The samples were collected by driving pre-cleaned brass sample tubes into soil removed from a depth of one foot BGS in each boring. The soil samples were secured with aluminum foil, plastic end-caps and tape. The secured samples were logged on a chain-of-custody form and then placed in an ice chest for temporary cold storage.

4.3 Chemical Analysis Methods for Soil

Soil samples collected for the May 1996 investigation were submitted to Advanced Technology Laboratory, Inc., (ATL) and Southland Technical Service Laboratory, Inc., (STS) for chemical analyses. ATL and STS are Cal-EPA Certified Laboratories (certificate #1838 and #1986). ATL performed chemical analyses using EPA methods 8240 and 8270 for volatile and semi-volatile organic chemical compounds, and EPA method 8015M for ethylene diamine. STS performed chemical analyses using EPA method 8015M for total petroleum hydrocarbons as diesel fuel (TPH-diesel), for total recoverable petroleum hydrocarbons (TRPH) by EPA method 418.1, and for volatile aromatics (BTEX) by EPA method 8020.

The 10 ft., 20 ft., 30 ft., and 45 ft., depth samples from boring B21, and the 5 ft, 10 ft., 20 ft., 30 ft., 40 ft, and 45 ft., depth samples from borings B22 through B27 were analyzed using EPA method 8240. The 10 ft., 20 ft. and 40 ft. depth samples from boring B23, and the 10 ft., and 30 ft. depth from boring B24 were also analyzed for propylene oxide by EPA method 8240 and for ethylene diamine using EPA method 8015M. The 5 ft., 10 ft., 20 ft., 25 ft., and 30 ft depth samples from boring B27 were also analyzed for TPH-diesel by EPA method 8015M.

The soil samples collected at a depth of one foot BGS from hand-auger boring HA1 through HA10 were analyzed for TPH-diesel using EPA method 8015M. The samples from borings HA2, HA5 and HA6 were also analyzed using EPA method 8020. The samples from borings HA9 and HA10 were also analyzed using EPA method 418.1. The samples from borings HA3 and HA4 were also analyzed using EPA method 8270.

A summary of the results of the chemical analyses are provided as Tables 1 and 2. The certified laboratory reports, laboratory quality assurance and control data, and chain-of-custody documents are provided as Appendix II.

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5.0 DISCUSSION OF INVESTIGATIVE RESULTS

5.1 Chemical Analysis Results for Soil

A summary of the chemical analyses results for the soil samples collected by ASE from drill rig borings B13 through B27, and hand auger borings HA1 through HA10, are provided on Tables 1 and 2. The Cal-EPA certified laboratory reports and chain-of-custody documents for the soil samples collected from borings B21 through B27 and HA1 through HA10 are provided as Appendix II.

5.2 Distribution of Contamination in Soil

Of the soil samples collected from borings B13 through B27 by ASE, those from borings B14, B15 and B23 generally contained the greatest number and highest concentration of chemical contaminants. In particular, high concentrations of acetone were discovered in soil samples collected from borings B2, B14, B15 and B23 at the TADCO site. Samples from boring B23 also contained relatively high concentration of toluene, ethylbenzene, and total xylenes. Furthermore, samples from this boring contained concentration of chlorobenzene, 1,2-dichlorobenzene, 1,3-dichlorobenzene and 1,4-dichlorobenzene. The chlorobenzene and dichlorobenzene chemical compounds were not detected in soil samples collected from other boring drilled by ASE.

The highest concentration of vinyl chloride was detected in the 45 foot depth sample from boring B15 at a depth of 45 feet BGS (320 $\mu\text{g}/\text{kg}$). This sample was collected at the base of the capillary fringe, at the saturated zone interface. The distribution of trichloroethylene (TCE) is similar to that of vinyl chloride.

Acetone contamination extends from approximately 5 feet to at least 45 feet BGS near the location of boring B14. Acetone contamination extends from approximately 30 feet BGS to at least 45 feet BGS near the location boring B15, and from approximately 20 feet BGS to at least 45 BGS near the location of boring B23. Although the actual source of the acetone and other chemical contamination at the TADCO site has not been clearly identified, the high concentrations detected in soil samples from borings B14, B15 and B23 suggest a source, or sources are near the locations of these borings. The acetone contamination detected in soil samples from borings B14, B15 and B23 does not appear to extend to the locations of borings B18, B22, or B24.

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The results of the chemical analyses conducted on soil samples collected from hand-auger borings HA1 through HA6 and HA8 indicate that shallow subsurface soil beneath the TADCO site has been impacted with diesel fuel-range petroleum hydrocarbons. Soil boring HA6 contained the highest concentration of TPH-diesel fuel at 2,000 mg/kg. This boring was drilled within the above-ground storage tank area at a location where the asphalt paving appeared to be heavily stained and somewhat degraded. The stained area was beneath the former location of an above-ground storage tank used by TADCO to contain a diesel fuel-range petroleum hydrocarbon product. The chemical analyses conducted on the soil samples from boring B27 indicate the extent of the diesel fuel contamination appears to be limited to soil above 5 feet BGS.

6.0 CONCLUSIONS

Based on the findings of this assessment, and previous assessments, Aqua Science Engineers concludes the following regarding subsurface environmental conditions at 363 West 133rd Street (TADCO):

- The apparent native soil types encountered during drilling by ASE beneath the subject area consisted primarily of fine sand, silty fine sands, sandy silts, and some silt and clay. What appears to be artificial fill was encountered beneath the subject area to depths between approximately 9 feet and 15 feet BGS in borings B17, B18, and B24 through B27. The artificial fill contains concrete, asphalt, glass, brick, tile and wood debris, and appears to encompass the northern 3/4 of the subject site.
- Groundwater was encountered between 43 and 45 feet BGS at the TADCO site. A thin perched water-bearing zone was encountered in boring B26 between approximately 20 and 22 feet BGS at the TADCO site. The thin perched water-bearing zone was also encountered in boring B17 at the eastern adjacent property. Relatively dry soil was encountered at 25 feet BGS in these borings. The perched water bearing zone was not encountered in any of the other borings drilled by ASE at the TADCO site or adjacent site.
- Of the borings drilled by ASE, the soil samples from borings B14, B15 and B23 contained the greatest number and relatively highest concentrations of detected volatile organic compounds. Chemical compounds detected in soil samples from these borings include

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acetone, vinyl chloride, trichloroethene, toluene, ethylbenzene, total xylenes, chlorobenzene, 1,2-dichlorobenzene, 1,3-dichlorobenzene and 1,4-dichlorobenzene.

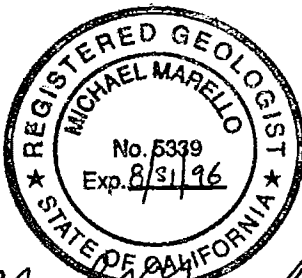
- High concentrations of acetone were discovered in soil samples collected from borings B14, B15 and B23 drilled by ASE at the TADCO site. Acetone contamination in soil to a depth of 40 feet BGS does not extend to the location of boring B18, B19 or B20 drilled on the adjacent property. It is unclear whether the low concentration of acetone detected in the 10 foot depth sample from boring B17 is related to the acetone detected in samples from borings B2, B14 and B15. Although the actual source of the acetone contamination has not been clearly identified, the high concentrations present soil samples from borings B14, B15 and B23 drilled at the TADCO site suggest the source, or sources, are likely to be near these borings.
- The occurrence of vinyl chloride, TCE, or other contaminants in soil samples collected in or near groundwater, and the absence of contamination above this depth, suggests groundwater may be contaminating soil within the 40 to 45 foot depth interval near these boring locations. However, the occurrence of contaminants at depths above 35 feet BGS in some borings suggests the existence of either a past or present surface or shallow subsurface source, or sources, near these locations.
- At this time, there appears to be at least two potential sources of the relatively high levels and wide range of chemical contamination discovered in soil borings B14, B15 and B23. These potential sources are the septic system used by TADCO and a ±12 foot deep concrete pit located on the LA Industrial Services/Standard Metals site. Waste chemicals placed in the septic system could potentially impact soil and groundwater beneath the site. The concrete pit on the LA Industrial Services/Standard Metals site is identified as a "briquetter" in the NATEC Phase I report. Waste chemicals placed in the pit, or leaked from metal objects crushed in the pit, could potentially impact soil and groundwater beneath the site.
- Shallow subsurface soil beneath the TADCO site has been impacted with diesel fuel-range petroleum hydrocarbons in the area of hand-auger borings HA1 through HA6 and HA8. Soil boring HA6 contained the highest concentration of TPH-diesel fuel at 2,000 mg/kg. This boring was drilled within the above-ground storage tank area at a location where the asphalt paving appeared to be heavily stained and somewhat degraded. The stained area was beneath the former location of an above-ground storage tank used by TADCO to contain a diesel fuel-range petroleum hydrocarbon product. The chemical analyses conducted on the soil samples

from boring B27 indicate the extent of the diesel fuel contamination appears to be limited to soil above 5 feet BGS.

7.0 REPORT LIMITATIONS

The project described in this report was intended to further investigate the presence of volatile and semi-volatile organic chemical contamination and petroleum hydrocarbon contamination in soil beneath the TADCO site. The results of the chemical analysis conducted for this project represent conditions at the times and locations/depths at which the soil samples were collected, for the chemical parameters specified in the analytical methods employed. The chemical analysis conducted during this project were performed by independent Cal-EPA Certified Laboratories. The independent laboratories are solely responsible for the contents and conclusions of their reports.

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TABLES

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TABLE 1
 Summary of Chemical Analysis Data for Soil Samples Collected from Borings B-13 through B-27 for EPA 8240 Compounds
 Borings B-13 through B-16 and B-22 through B-27 Drilled at Taddo, 363 West 133rd St., Los Angeles County
 Boring B-21 Drilled on the South Edge of 133rd Street, Adjacent to General Welding Site
 Borings B-17 through B-20 Drilled at 13255 South Broadway, Los Angeles County

Boring Number	Sample Collection Depth (ft)	Acetone (ug/kg)	Carbon Disulfide (ug/kg)	Vinyl Chloride (ug/kg)	Methylene Chloride (ug/kg)	Trans-1,2 DCE (ug/kg)	1,1-DCA (ug/kg)	2-Butanone (ug/kg)	Benzene (ug/kg)	TCE (ug/kg)	4-Methyl-2-Pentanone (ug/kg)	Toluene (ug/kg)	Ethyl-Benzene (ug/kg)	Total Xylenes (ug/kg)	Chloroform (ug/kg)	Chloro-Benzene (ug/kg)	1,2 DCB (ug/kg)	1,3 DCB (ug/kg)	1,4 DCB (ug/kg)	
B-13	10	400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	40	ND	ND	70	ND	48	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-14	51	640	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,100	4,200	ND	ND	ND	ND	ND	ND
	15	75,000	ND	ND	ND	ND	ND	260	ND	ND	56	ND	ND	ND	ND	ND	ND	ND	ND	ND
	25	11,700	ND	ND	ND	ND	ND	57	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	35	104,000	8	ND	ND	ND	ND	180	ND	ND	78	10	ND	ND	ND	ND	ND	ND	ND	ND
	45	1,300	6	30	ND	ND	ND	ND	ND	ND	ND	18	ND	ND	ND	ND	ND	ND	ND	ND
B-15	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	30	92	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	35	28,700	ND	ND	ND	ND	ND	83	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	40	1,270,000	ND	45	ND	6	ND	700	ND	ND	200	49	7	34	ND	ND	ND	ND	ND	ND
	45	732,000	ND	320	31	46	18	ND	ND	7.6	150	490	34	330	ND	ND	ND	ND	ND	ND
B-16	15	1,600	ND	16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	20	ND	ND	32	ND	21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	30	ND	ND	7.3	ND	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	35	ND	ND	71	ND	27	ND	ND	ND	190	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-17	10	150	ND	ND	ND	ND	ND	ND	ND	ND	ND	98	ND	ND	ND	ND	ND	ND	ND	ND
	20 ¹	ND	ND	ND	ND	290	ND	ND	280	270	ND	430	900	1,050	ND	ND	ND	ND	ND	ND
	30 ¹	ND	ND	ND	ND	1,400	ND	ND	ND	ND	ND	160	360	ND	ND	ND	ND	ND	ND	ND
	40 ¹	ND	ND	ND	ND	310	ND	ND	ND	4,400	ND	97	160	ND	ND	ND	ND	ND	ND	ND
B-18	12	ND	ND	14	ND	ND	ND	ND	ND	15	ND	23	ND	ND	ND	ND	ND	ND	ND	ND
	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20	ND	ND	ND	ND	ND	ND	ND	ND
	30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	ND	ND
	40	ND	ND	19	ND	9.8	ND	ND	ND	ND	ND	63	ND	ND	ND	ND	ND	ND	ND	ND
B-19	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	32	ND	ND	ND	ND	ND	ND	ND	ND
	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND	ND	ND
	30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	24	ND	ND	ND	ND	ND	ND	ND	ND
	40	ND	ND	ND	ND	ND	ND	ND	ND	24	ND	43	ND	ND	ND	ND	ND	ND	ND	ND
Method Detection Level (MDL)		50	5	5	5	5	5	50	5	5	50	5	5	5	5	5	5	5	5	5

¹ Dilution Factor (DF) for sample is 10.
 Reporting Limit for sample is DF x Method Detection Level

TABLE 1 CONTINUED

Summary of Chemical Analysis Data for Soil Samples Collected from Borings B-13 through B-27 for EPA 8240 Compounds
 Borings B-13 through B-16 and B-22 through B-27 Drilled at Tadco, 363 West 133rd St., Los Angeles County
 Boring B-21 Drilled on the South Side of 133rd Street, Adjacent to General Welding Site
 Borings B-17 through B-20 Drilled at 13255 South Broadway, Los Angeles County

Boring Number	Sample Collection Depth (ft)	Acetone (ug/kg)	Carbon Disulfide (ug/kg)	Vinyl Chloride (ug/kg)	Methylene Chloride (ug/kg)	Trans-1,2 DCE (ug/kg)	1,1-DCA (ug/kg)	2-Butanone (ug/kg)	Benzene (ug/kg)	TCE (ug/kg)	4-Methyl-2-Pentanone (ug/kg)	Toluene (ug/kg)	Ethyl-Benzene (ug/kg)	Total Xylenes (ug/kg)	Chloroform (ug/kg)	Chloro-Benzene (ug/kg)	1,2 DCB (ug/kg)	1,3 DCB (ug/kg)	1,4 DCB (ug/kg)	
B-20	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	ND	ND	ND
	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	22	ND	ND	ND	ND	ND	ND	ND	ND
	30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	24	ND	ND	ND	ND	ND	ND	ND	ND
	40	ND	ND	20	ND	330	ND	ND	ND	ND	ND	31	ND	ND	ND	ND	ND	ND	ND	ND
B-21	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	45 ¹	ND	ND	ND	ND	ND	ND	ND	ND	930	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-22	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	40 ¹	ND	ND	87	ND	56	ND	ND	ND	330	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	45 ¹	ND	ND	280	ND	ND	ND	2,200	ND	ND	600	680	67	400	ND	ND	ND	ND	ND	ND
B-23	5 ¹	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	190	23,000	115,000	12,900	15,500	2,500	9,200	ND	
	10 ¹	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8,400	8,300	55,900	ND	66	ND	ND	ND	
	20 ²	262,000	ND	ND	ND	1,000	ND	ND	ND	1,000	ND	22,000	17,000	119,000	ND	670	ND	ND	ND	
	30 ²	64,200	ND	ND	ND	ND	ND	ND	ND	ND	ND	840	1,290	9,460	ND	ND	ND	ND	ND	
	40	ND	ND	29	ND	ND	ND	ND	ND	ND	ND	30	9.9	24	ND	ND	ND	ND	ND	
B-24	45 ¹	7,350	ND	550	ND	ND	ND	ND	ND	ND	ND	820	440	2,670	ND	ND	ND	ND	ND	
	5	ND	ND	ND	ND	16	ND	ND	ND	16	ND	11	ND	ND	ND	ND	ND	ND	ND	
	10 ³	ND	ND	ND	ND	300	ND	ND	ND	300	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	40	ND	ND	ND	ND	5.6	ND	ND	ND	5.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	
45	ND	ND	6.3	ND	65	ND	ND	ND	65	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Method Detection Level		50	5	5	5	5	5	50	5	5	50	5	5	5	5	5	5	5	5	

¹ Dilution Factor (DF) for sample is 10.
² Dilution Factor for sample is 100.
³ Dilution Factor for sample is 5.
 Reporting Limit for sample is DF x Method Detection Level

TABLE 1 CONTINUED
 Summary of Chemical Analysis Data for Soil Samples Collected from Borings B-13 through B-27 for EPA 8240 Compounds
 Borings B-13 through B-16 and B-22 through B-27 Drilled at Taddo, 363 West 133rd St., Los Angeles County
 Boring B-21 Drilled on the South Edge of 133rd Street, Adjacent to General Welding Site
 Borings B-17 through B-20 Drilled at 13255 South Broadway, Los Angeles County

Boring Number	Sample Collection Depth (ft)	Acetone (ug/kg)	Carbon Disulfide (ug/kg)	Vinyl Chloride (ug/kg)	Methylene Chloride (ug/kg)	Trans-1,2 DCE (ug/kg)	1,1-DCA (ug/kg)	2-Butanone (ug/kg)	Benzene (ug/kg)	TCE (ug/kg)	4-Methyl-2-Pentanone (ug/kg)	Toluene (ug/kg)	Ethyl-Benzene (ug/kg)	Total Xylenes (ug/kg)	Chloroform (ug/kg)	Chloro-Benzene (ug/kg)	1,2 DCB (ug/kg)	1,3 DCB (ug/kg)	1,4 DCB (ug/kg)	
B-25	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10	73	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	20	57	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	45	ND	ND	ND	ND	ND	ND	ND	ND	8.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-26	5	160	6.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	20 ¹	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	70	280	2890	ND	ND	ND	ND	ND	ND
	30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	45	ND	ND	ND	ND	ND	ND	ND	ND	57	ND	ND	ND	ND	5.7	ND	ND	ND	ND	ND
B-27	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10	51	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	45	ND	ND	ND	ND	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Method Detection Level		50	5	5	5	5	5	50	5	5	50	5	5	5	5	5	5	5	5	5

¹ Dilution Factor (DF) for sample is 10.
 Reporting Limit for sample is DF x Method Detection Level

EXPLANATION FOR TABLE 1

Trans-1,2- DCE = Trans-1,2-Dichloroethene
 TCE = Trichloroethene
 1,3 DCB = 1,3-Dichlorobenzene
 ND = not detected

EPA 8240 compounds not listed in Table 1 were not detected in any of the analyzed samples from boring B-13 through B-27

1,1-DCA = 1,1-Dichloroethane
 1,2 DCB = 1,2-Dichlorobenzene
 1,4 DCB = 1,4-Dichlorobenzene
 ug/kg = micrograms per kilogram or parts per billion (ppb)

TABLE 2
Summary of Chemical Analyses Results for Soil Samples
Collected in Area of Above Ground Tank Farm
at TADCO, 363 West 133rd Street, Los Angeles, CA

Sample ID	Sample Depth	Diesel Fuel (8015M)	TRPH (418.1)	Toluene	Ethylbenzene ------(8240/8020)-----	Xylenes	Bis(2-Ethylhexyl)phthalate (8270)
HA-1-1	1 ft.	43	NA	NA	NA	NA	NA
HA-2-1	1 ft.	81	NA	ND	ND	ND	NA
HA-3-1	1 ft.	150	NA	NA	NA	NA	2.85
HA-4-1	1 ft.	150	NA	NA	NA	NA	ND
HA-5-1	1 ft.	120	NA	ND	ND	ND	NA
HA-6-1	1 ft.	2,000	NA	ND	0.27	1.80	NA
HA-7-1	1 ft.	ND	NA	NA	NA	NA	NA
HA-8-1	1 ft.	100	NA	NA	NA	NA	NA
HA-9-1	1 ft.	ND	320	NA	NA	NA	NA
HA-10-1	1 ft.	ND	390	NA	NA	NA	NA
B-27-5	5 ft.	ND	NA	ND	ND	ND	NA
B-27-10	10 ft.	ND	NA	ND	ND	ND	NA
B-27-20	20 ft.	ND	NA	ND	ND	ND	NA
B-27-25	25 ft.	ND	NA	NA	NA	NA	NA
B-27-30	30 ft.	NA	NA	ND	ND	ND	NA
	MDL	10	10	0.005	0.005	0.015	0.33

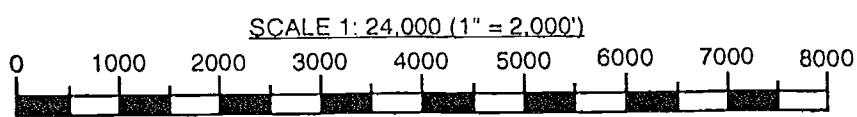
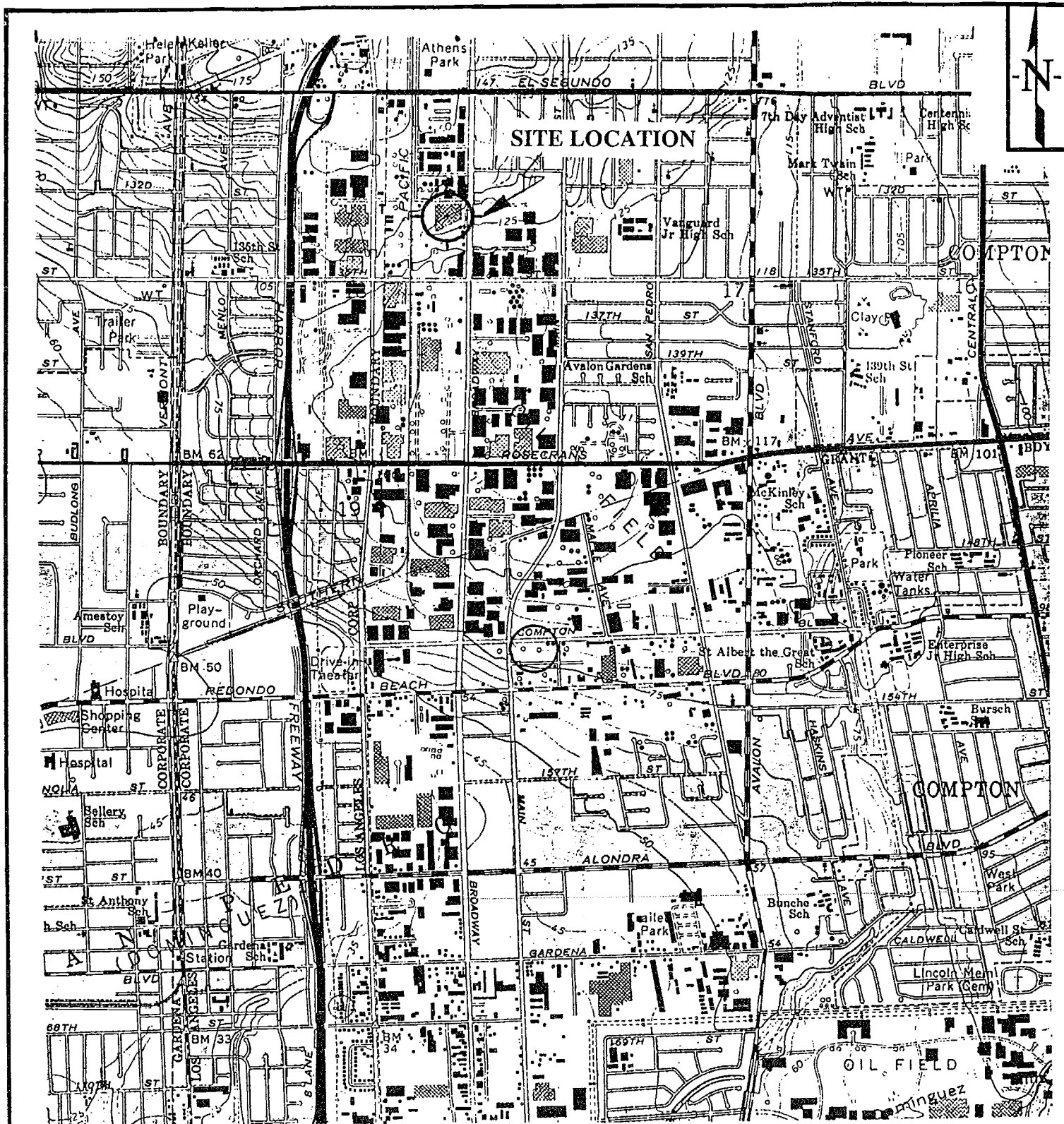
All values reported in parts per million (ppm) or milligrams per kilogram (mg/kg)

ND = Not Detected (below detection limits)

NA = Not Analyzed

EPA 8240, 8020, and 8270 compounds not listed in Table 2 were not detected

FIGURES

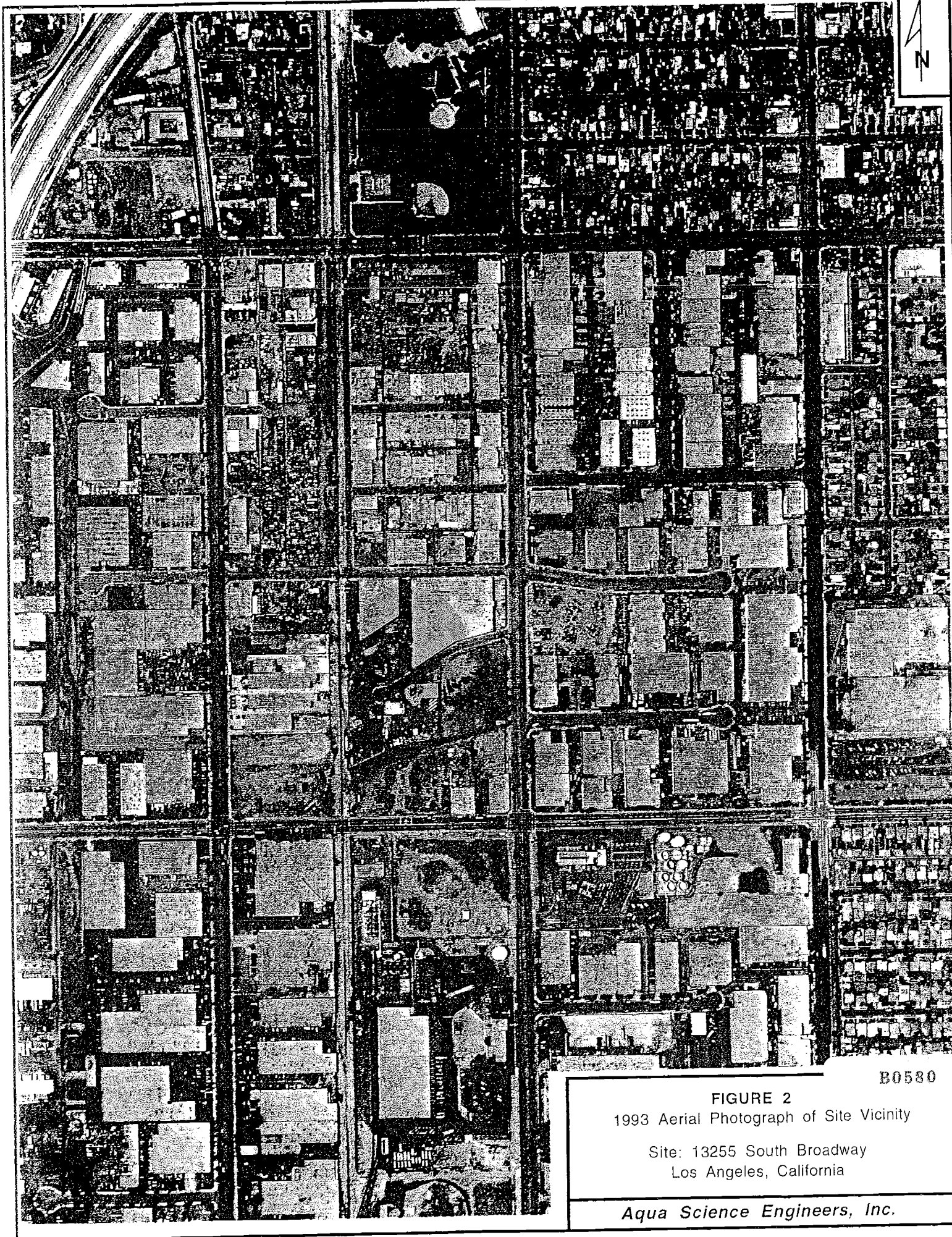


Reference: Inglewood Quadrangle, Los Angeles County
 U.S.G.S. 7.5 Minute Series (Topographic)
 1964, Photorevised 1981

FIGURE: 1
 U.S.G.S. TOPOGRAPHIC SITE LOCATION MAP
 FOR
 B.I.G. SITE
 MAIN STREET AND REDONDO BEACH BLVD.
 SANTA ANA, CA

AQUA SCIENCE ENGINEERS, INC.

B0579

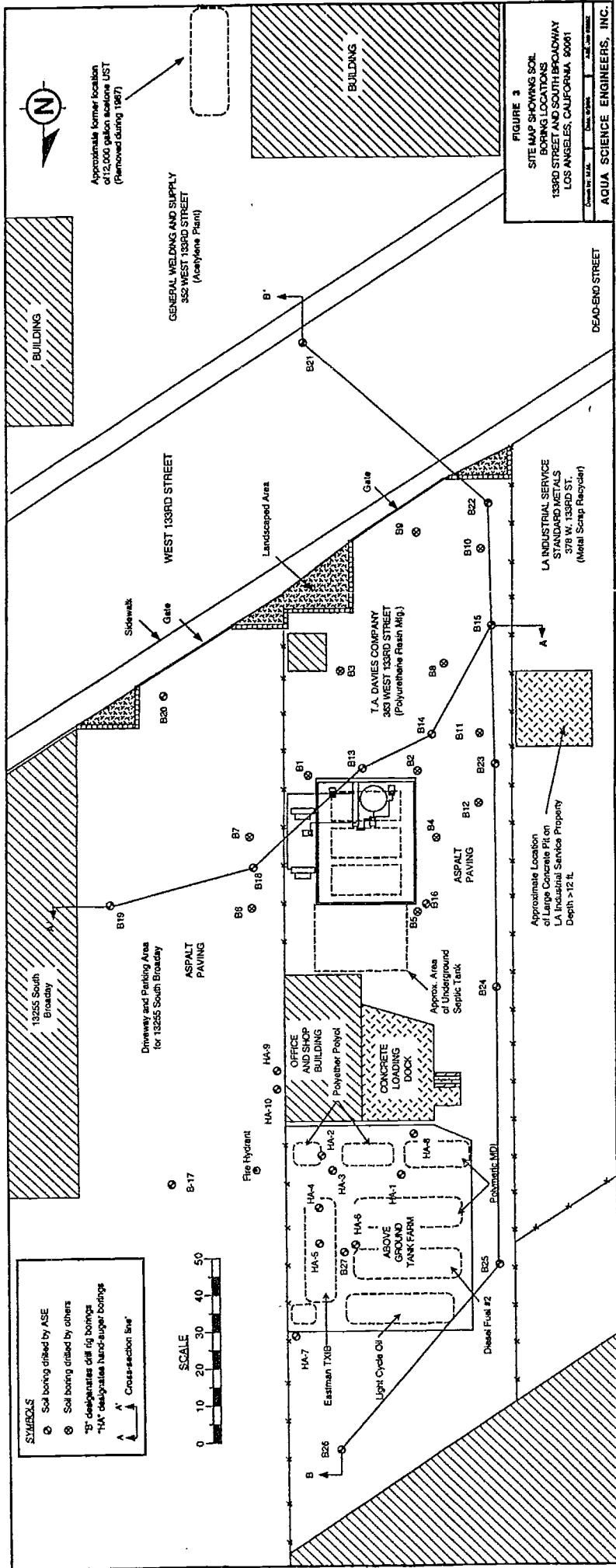


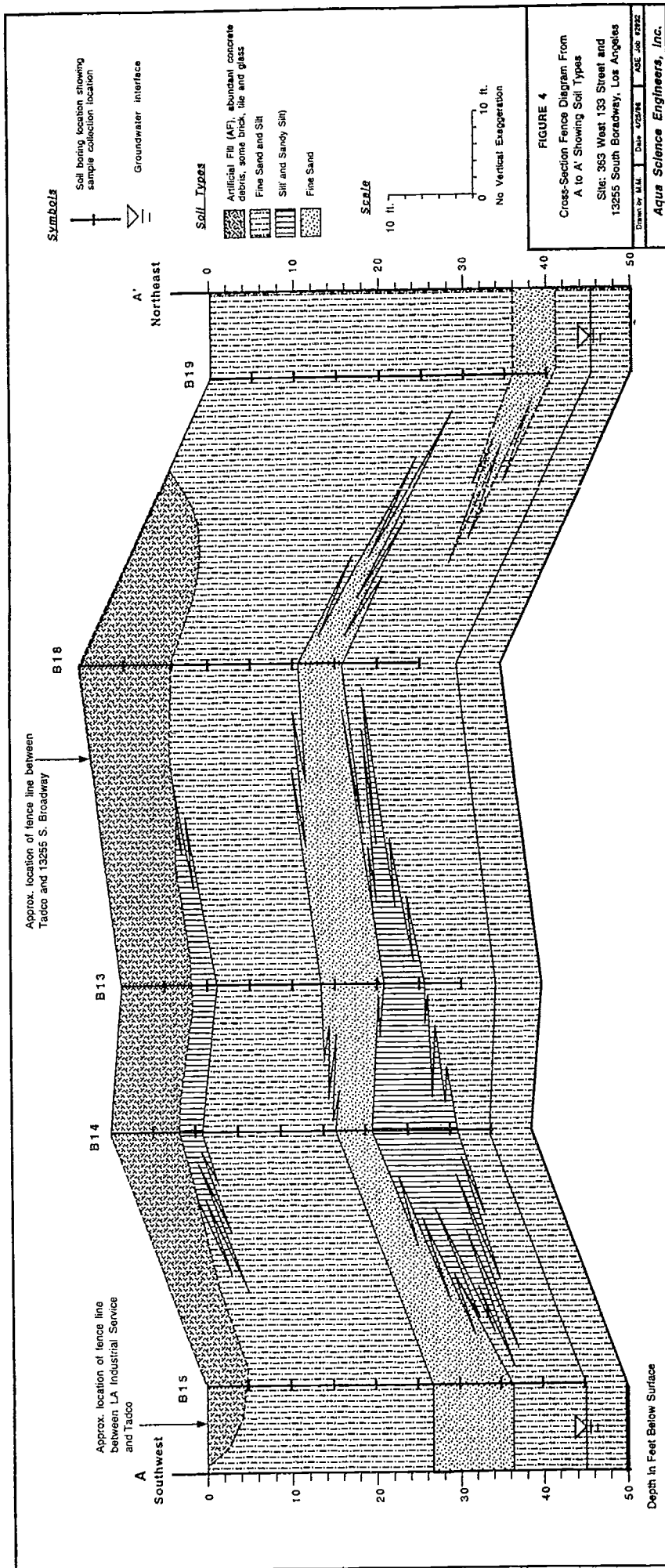
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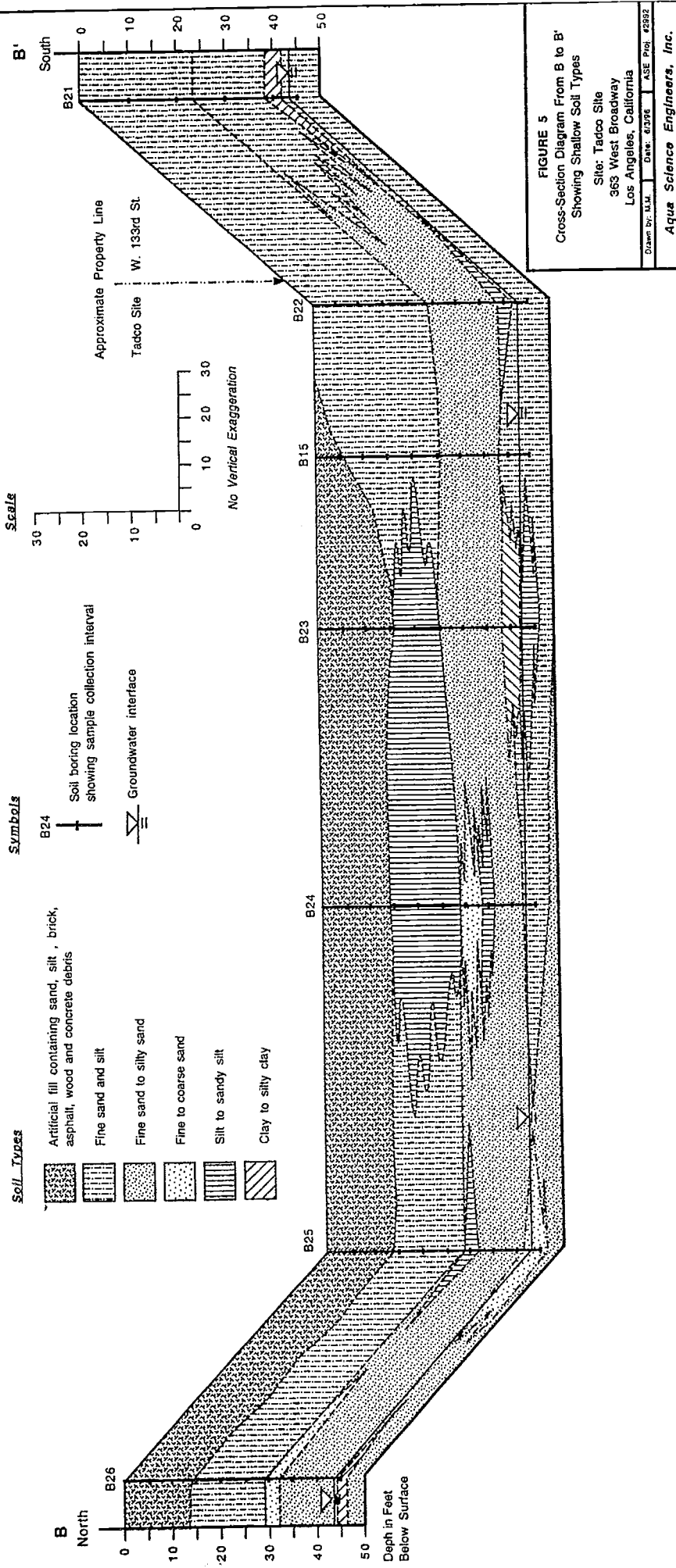
FIGURE 2
1993 Aerial Photograph of Site Vicinity

Site: 13255 South Broadway
Los Angeles, California

Aqua Science Engineers, Inc.







APPENDIX I

SOIL LOGS FOR BORINGS B21 THROUGH B27

B0584

SOIL BORING LOG AND MONITORING WELL CONSTRUCTION DETAILS

BORING NO. B-21

Project Name: TADCO

Project Location: 363 W. 133rd St., Los Angeles

Page 1 of 2

Driller: ABC Liovin

Type of Rig: CME 75

Type and Size of Auger: 8" O.D. H.S.

Logged By: M. Marelo, R.G.#5339

Date Drilled: 5/21/96

Checked By:

WATER AND WELL DATA

Depth of Water First Encountered: 44-45 ft.

Total Depth of Well Completed: NA


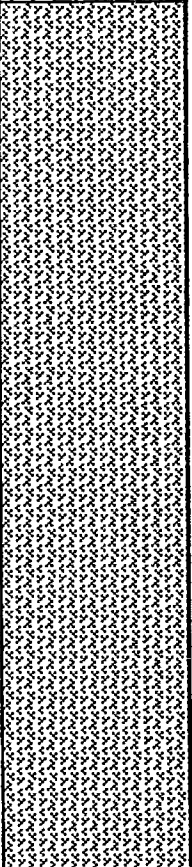


Well Screen Type and Diameter: NA

Static Depth of Water in Well: NA

Well Screen Slot Size: NA

Total Depth of Boring: 45 ft.

Type and Size of Soil Sampler: 1.5" I.D. Split Spoon

Depth in Feet	WELLBORING DETAIL	Description	SOIL/ROCK SAMPLE DATA				Depth in Feet	DESCRIPTION OF LITHOLOGY				
			Interval	Blow Ct.	Field VOC (ppmv)	Graphic Log		standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.				
								And (40-50%)	With (40-25%)	Some (25-10%)	Trace (10-0%)	
0						0	Asphalt approx. 4 inches					
5		Boring backfilled with drill cuttings		$\frac{14}{16}$ 38		5	Silt with very fine sand (ML-SM), tan, dry, no odor, no obvious staining, some white mineralization					
10												
15				$\frac{5}{17}$ 25		15	Silt with very fine sand (ML-SM), tan, moist, no odor, no obvious staining					
20					20							

B0585

SOIL BORING LOG AND MONITORING WELL CONSTRUCTION DETAILS

BORING NO. B-21

Project Name: TADCO

Project Location: 363 W. 133rd St. Los Angeles

Page 2 of 2

Driller: ABC Liovin

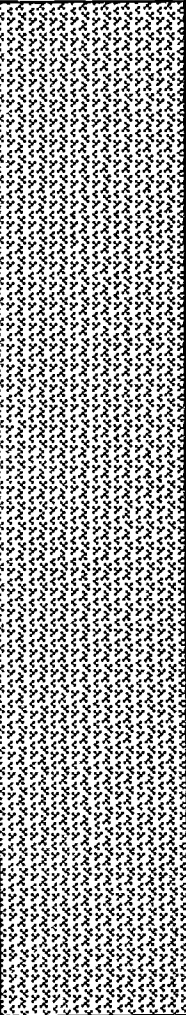






Type of Rig: CME 75


Type and Size of Auger: 8" O.D. H.S.

Logged By: M. Mareello

Date Drilled: 5/21/96

Checked By:

Depth in Feet	WELLBORING DETAIL	Description	SOIL/ROCK SAMPLE DATA				Depth in Feet	DESCRIPTION OF LITHOLOGY				
			Interval	Blow Ct.	Field VOC (ppmv)	Graphic Log		standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.				
								And (40-50%)	With (40-25%)	Some (25-10%)	Trace (10-0%)	
25		Boring backfilled with drill cuttings					25	Silt and very fine sand (ML-SM), tan to olive-tan, moist, no odor, no obvious staining				
30				$\frac{6}{7}$ $\frac{9}{9}$								
40				$\frac{3}{5}$ $\frac{6}{6}$								
45				$\frac{3}{5}$ $\frac{6}{6}$								
50												

 Groundwater encountered at approx. 44 ft.
Very fine sand and silt, trace clay (SM), olive-tan, water saturated, no odor, no obvious staining

SOIL BORING LOG AND MONITORING WELL CONSTRUCTION DETAILS

BORING NO. B-22

Project Name: TADCO

Project Location: 363 W. 133rd St., Los Angeles

Page 1 of 2

Driller: ABC Liovin

Type of Rig: CME 75

Type and Size of Auger: 8" O.D. H.S.

Logged By: M. Marello, R.G.#5339

Date Drilled: 5/21/96

Checked By:

WATER AND WELL DATA

Total Depth of Well Completed: NA

Depth of Water First Encountered: 43-44 ft.

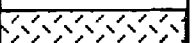
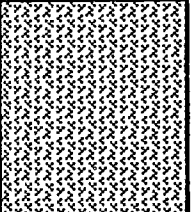


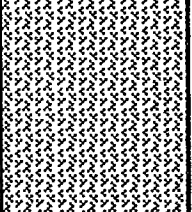


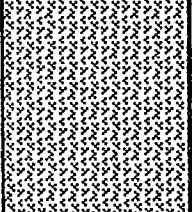


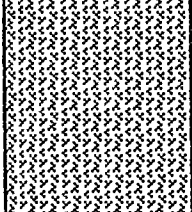


Well Screen Type and Diameter: NA

Static Depth of Water in Well: NA

Well Screen Slot Size: NA

Total Depth of Boring: 45 ft.

Type and Size of Soil Sampler: 1.5" I.D. Split Spoon

Depth in Feet	WELLBORING DETAIL	Description	SOIL/ROCK SAMPLE DATA				Depth in Feet	DESCRIPTION OF LITHOLOGY							
			Interval	Blow Ct.	Field VOC (ppmv)	Graphic Log		standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.							
								And (40-50%)	With (40-25%)	Some (25-10%)	Trace (10-0%)				
0							0	Asphalt approx. 3 inches							
5		Boring backfilled with drill cuttings		$\frac{3}{3}$			5	Fine sand with silt (SM), brown, slightly moist, slight sewage-like odor, no obvious staining							
10				$\frac{6}{7}$ 12			10	Silt with very fine sand (ML-SM), olive-tan, dry to slightly moist, slight sewage-like odor, no obvious staining, some white mineralization							
15				$\frac{3}{6}$ 7			15	Stronger sewage-like odor, no obvious mineralization							
20				$\frac{3}{7}$ 9			20	Silt with very fine sand (ML-SM), tan, moist, sewage-like odor, some white mineralization							

SOIL BORING LOG AND MONITORING WELL CONSTRUCTION DETAILS

BORING NO. B-22

Project Name: TADCO

Project Location: 363 W. 133rd St. Los Angeles

Page 2 of 2

Driller: ABC Liovin

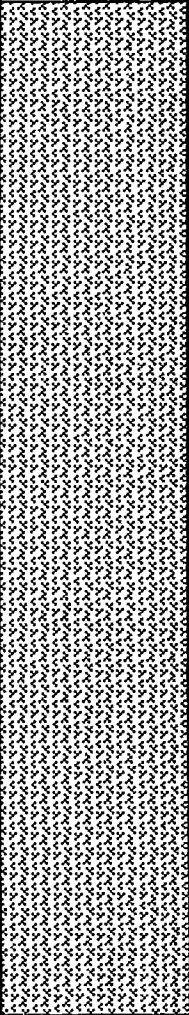
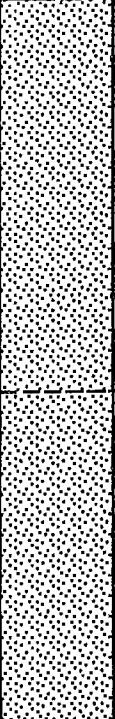

Type of Rig: CME 75

Type and Size of Auger: 8" O.D. H.S.

Logged By: M. Marelo

Date Drilled: 5/21/96

Checked By:

Depth in Feet	WELL/BORING DETAIL	Description	SOIL/ROCK SAMPLE DATA				Depth in Feet	DESCRIPTION OF LITHOLOGY			
			Interval	Blow Ct.	Field VOC (ppmv)	Graphic Log		standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.			
								And (40-50%)	With (40-25%)	Some (25-10%)	Trace (10-0%)
25		Boring backfilled with drill cuttings	3 6 7				25	Very fine sand, some silt (SP-SM), tan, slightly moist, slight sewage-like odor, no obvious staining			
30			5 7 12				30				
35			6 8 11				35	Fine sand, some silt and clay in bio-pores(?) (SP) pale-tan, moist to very moist, slight sewage-like odor			
40			4 5 6				40	Silt (ML), olive-tan, wet, strong sewage-like odor			
45			2 3 5				45	Fine sand, some silt (SP), dark olive-tan, water saturated, very strong sewage-like odor			
	EOH 45 ft.							 Groundwater encountered at approx. 43 ft.			
50						50					

SOIL BORING LOG AND MONITORING WELL CONSTRUCTION DETAILS

BORING NO. B-23

Project Name: TADCO

Project Location: 363 W. 133rd St., Los Angeles

Page 1 of 2

Driller: ABC Liovin

Type of Rig: CME 75

Type and Size of Auger: 8" O.D. H.S.

Logged By: M. Marello, R.G.#5339

Date Drilled: 5/21/96

Checked By:

WATER AND WELL DATA

Depth of Water First Encountered: 43-44 ft.

Total Depth of Well Completed: NA

Well Screen Type and Diameter: NA

Static Depth of Water in Well: NA

Well Screen Slot Size: NA

Total Depth of Boring: 45 ft.

Type and Size of Soil Sampler: 1.5" I.D. Split Spoon

Depth in Feet	WELLBORING DETAIL	Description	SOIL/ROCK SAMPLE DATA				Depth in Feet	DESCRIPTION OF LITHOLOGY				
			Interval	Blow Ct.	Field VOC (ppmv)	Graphic Log		standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.				
								And (40-50%)	With (40-25%)	Some (25-10%)	Trace (10-0%)	
0							0	Asphalt approx. 3 inches				
5				1 2 3			5	Silt with clay (ML-CL), dark brown to gray, moist, petroleum hydrocarbon odor (aged gasoline?), Dark color may be from staining or high organic content. Possibly artificial fill.				
10				3 4 5			10	Same as above, some wood debris (fill or tree root?) petroleum hydrocarbon odor. Possibly artificial fill.				
15				3 4 5			15	Silt, trace clay (ML), olive-tan to olive, very moist, some wood debris, chemical odor				
20				3 4 5			20	Silt with very fine sand (ML-SM), tan, dry, slight chemical odor, some white mineralization				

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SOIL BORING LOG AND MONITORING WELL CONSTRUCTION DETAILS

BORING NO. B-23

Project Name: TADCO

Project Location: 363 W. 133rd St. Los Angeles

Page 2 of 2

Driller: ABC Liovin

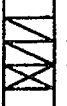


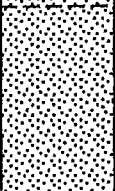

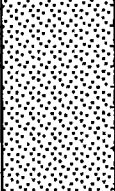


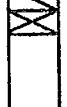


Type of Rig: CME 75

Type and Size of Auger: 8" O.D. H.S.

Logged By: M. Marelo

Date Drilled: 5/21/96

Checked By:

Depth in Feet	WELLBORING DETAIL	Description	SOIL/ROCK SAMPLE DATA				Depth in Feet	DESCRIPTION OF LITHOLOGY				
			Interval	Blow Ct.	Field VOC (ppmv)	Graphic Log		standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.				
								And (40-50%)	With (40-25%)	Some (25-10%)	Trace (10-0%)	
25	EOH 45 ft.			$\frac{3}{6}$ $\frac{6}{7}$			25	Very fine sand or coarse silt (SP-ML), pale tan, moist, chemical odor, no obvious staining				
30				$\frac{5}{7}$ $\frac{7}{12}$			30	Very fine sand (SP), pale tan, slightly moist, chemical and sewage-like odor, no obvious staining				
35				$\frac{6}{8}$ $\frac{8}{11}$			35	Very fine sand, some silt and clay in bio-pores(?) (SP) pale tan to gray tan, moist, chemical and sewage-like odor, gray-tan color may be from staining				
40				$\frac{4}{5}$ $\frac{5}{6}$			40	Caly and silt (CL-ML), olive to olive-tan, very moist to wet, strong chemical and sewage-like odor				
45				$\frac{2}{3}$ $\frac{3}{5}$			45	 Groundwater encountered at approx. 43 ft. Silt, some clay and very fine sand (ML), olive, water saturated, strong sewage-like odor				
50							50					

B0590

SOIL BORING LOG AND MONITORING WELL CONSTRUCTION DETAILS	BORING NO. B-24
---	-----------------

Project Name: TADCO	Project Location: 363 W. 133rd St., Los Angeles	Page 1 of 2
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Driller: ABC Liovin	Type of Rig: CME 75	Type and Size of Auger: 8" O.D. H.S.
---------------------	---------------------	--------------------------------------

Logged By: M. Marelo, R.G.#5339	Date Drilled: 5/21/96	Checked By:
---------------------------------	-----------------------	-------------

WATER AND WELL DATA	Total Depth of Well Completed: NA
Depth of Water First Encountered: 43-44 ft.	Well Screen Type and Diameter: NA
Static Depth of Water in Well: NA	Well Screen Slot Size: NA
Total Depth of Boring: 45 ft.	Type and Size of Soil Sampler: 1.5" I.D. Split Spoon

Depth in Feet	WELLBORING DETAIL	Description	SOIL/ROCK SAMPLE DATA				Depth in Feet	DESCRIPTION OF LITHOLOGY			
			Interval	Blow Ct.	Field VOC (ppmv)	Graphic Log		standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.			
								And (40-50%)	With (40-25%)	Some (25-10%)	Trace (10-0%)
0	Boring backfilled with drill cuttings	Boring backfilled with drill cuttings	0 - 3	3		0	Asphalt approx. 3 inches				
5			3 4 4		5	Fine to medium sand and silt (SM), dark brown, moist, asphalt debris (artificial fill), slight sewage-like odor					
10			3 6 22		10	C-M-F sand with silt (SM), dark brown to purple brown, moist, some pink-purple brick fragments (artificial fill) slight sewage-like odor					
15			2 2 3		15	Silt, trace fine sand and clay (ML), dark brown, moist, slight sewage-like odor					
20			2 3 4		20	Silt, trace fine sand and clay (ML), brown, moist, slight sewage-like odor					

B0591

SOIL BORING LOG AND MONITORING WELL CONSTRUCTION DETAILS

BORING NO. B-24

Project Name: TADCO

Project Location: 363 W. 133rd St. Los Angeles

Page 2 of 2

Driller: ABC Liovin


Type of Rig: CME 75

Type and Size of Auger: 8" O.D. H.S.

Logged By: M. Marello

Date Drilled: 5/21/96

Checked By:

Depth in Feet	WELLBORING DETAIL	Description	SOIL/ROCK SAMPLE DATA				Depth in Feet	DESCRIPTION OF LITHOLOGY							
			Interval	Blow Ct.	Field VOC (ppmv)	Graphic Log		standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.							
								And (40-50%)	With (40-25%)	Some (25-10%)	Trace (10-0%)				
25	EOH 45 ft.	Boring backfilled with drill cuttings	4 4 6			25		Silt, some med. to fine sand, trace clay (ML), moist, slight sewage-like odor							
30			5 5 9			30		Medium to coarse sand with silt, trace clay (SM), brown, very moist, slight sewage-like odor							
35			3 5 6			35		Silt, trace clay and very fine sand (ML), pale olive-tan, moist, sewage-like odor							
40			6 9 12			40		Very fine sand, some silt (SP), tan, moist, sewage-like odor							
45			6 6 6			45		Very fine sand and silt (SM), olive-gray, water saturated, sewage-like odor							
								 Groundwater encountered at approx. 43 ft.							
50															

B0692

SOIL BORING LOG AND MONITORING WELL CONSTRUCTION DETAILS

BORING NO. B-25

Project Name: TADCO

Project Location: 363 W. 133rd St., Los Angeles

Page 1 of 2

Driller: ABC Liovin

Type of Rig: CME 75

Type and Size of Auger: 8" O.D. H.S.

Logged By: J.S. Rowlands

Date Drilled: 5/21/96

Checked By: M. Marelo, R.G.#5339

WATER AND WELL DATA

Depth of Water First Encountered: 43-44 ft.

Total Depth of Well Completed: NA

Well Screen Type and Diameter: NA

Static Depth of Water in Well: NA

Well Screen Slot Size: NA

Total Depth of Boring: 45 ft.

Type and Size of Soil Sampler: 1.5" I.D. Split Spoon

Depth in Feet	WELLBORING DETAIL	Description	SOIL/ROCK SAMPLE DATA				Depth in Feet	DESCRIPTION OF LITHOLOGY				
			Interval	Blow Ct.	Field VOC (ppmv)	Graphic Log		standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.				
								And (40-50%)	With (40-25%)	Some (25-10%)	Trace (10-0%)	
0							0	Asphalt approx. 3 inches				
5		Boring backfilled with drill cuttings		2 2			5	Fine to medium sand and silt (SM-ML), dark brown, moist, concrete and brick debris (artificial fill)				
10				2 3			10	Silt, some clay (ML-CL), dark gray, very moist, (artificial fill?)				
15				4 7			15	Fine sand and silt (ML-SM), dark brown, very moist				
20				5 5			20					

B0593

SOIL BORING LOG AND MONITORING WELL CONSTRUCTION DETAILS

BORING NO. B-25

Project Name: TADCO

Project Location: 363 W. 133rd St. Los Angeles

Page 2 of 2

Driller: ABC Liovin

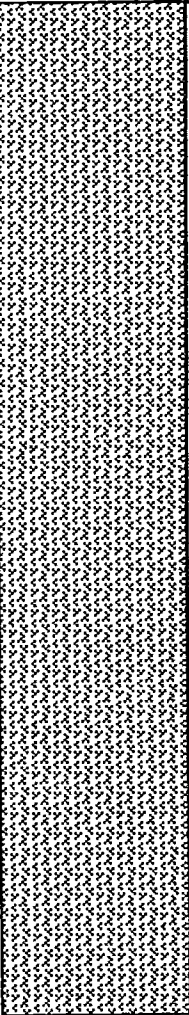

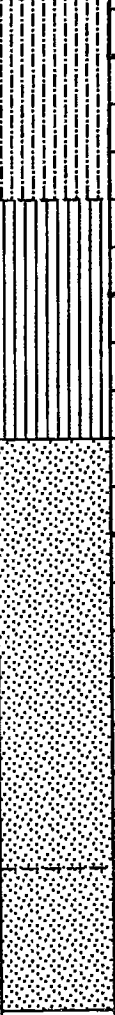




Type of Rig: CME 75

Type and Size of Auger: 8" O.D. H.S.

Logged By: J.S. Rowlands

Date Drilled: 5/21/96

Checked By: M. Marelo, R.G.#5339

Depth in Feet	WELL BORING DETAIL	Description	SOIL/ROCK SAMPLE DATA				Depth in Feet	DESCRIPTION OF LITHOLOGY					
			Interval	Blow Ct.	Field VOC (ppmv)	Graphic Log		standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.					
								And (40-50%)	With (40-25%)	Some (25-10%)	Trace (10-0%)		
25		Boring backfilled with drill cuttings		3 8			25	Fine sand with silt (SM), tan, slightly moist					
30				8 8			30	Silt with clay (ML-CL), olive-tan, moist					
35				7 9			35	Fine sand (SP), tan, moist					
40				13 19			40	Groundwater encountered at approx. 43 ft.					
45				5 14			45	CMF sand (SW), tan, water saturated					
50	EOH 45 ft.												

B0694

SOIL BORING LOG AND MONITORING WELL CONSTRUCTION DETAILS

BORING NO. B-26

Project Name: TADCO

Project Location: 363 W. 133rd St., Los Angeles

Page 1 of 2

Driller: ABC Liovin

Type of Rig: CME 75

Type and Size of Auger: 8" O.D. H.S.

Logged By: J.S. Rowlands

Date Drilled: 5/21/96

Checked By: M. Marelo, R.G.#5339

WATER AND WELL DATA

Depth of Water First Encountered: 43-44 ft.

Total Depth of Well Completed: NA

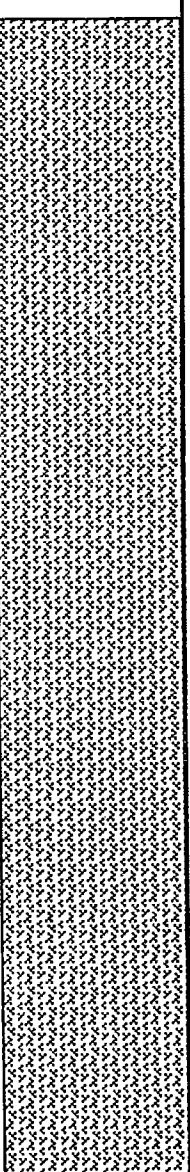









Well Screen Type and Diameter: NA

Static Depth of Water in Well: NA

Well Screen Slot Size: NA

Total Depth of Boring: 45 ft.

Type and Size of Soil Sampler: 1.5" I.D. Split Spoon

Depth in Feet	WELLBORING DETAIL	Description	SOIL/ROCK SAMPLE DATA				Depth in Feet	DESCRIPTION OF LITHOLOGY				
			Interval	Blow Ct.	Field VOC (ppmv)	Graphic Log		standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.				
								And (40-50%)	With (40-25%)	Some (25-10%)	Trace (10-0%)	
0		Boring backfilled with drill cuttings					0	Asphalt approx. 3 inches				
5				4			5	Silt with fine to medium sand (ML-SM), brown, concrete and brick debris (artificial fill)				
10				4 10			10	Silt with fine to medium sand (ML-SM), olive-brown, moist, asphalt and brick fragments (artificial fill)				
15				5 6			15	Fine to medium sand with silt (SM), tan, moist (native soil)				
20				6 6			20					

B0595

SOIL BORING LOG AND MONITORING WELL CONSTRUCTION DETAILS

BORING NO. B-26

Project Name: TADCO

Project Location: 363 W. 133rd St. Los Angeles

Page 2 of 2

Driller: ABC Liovin

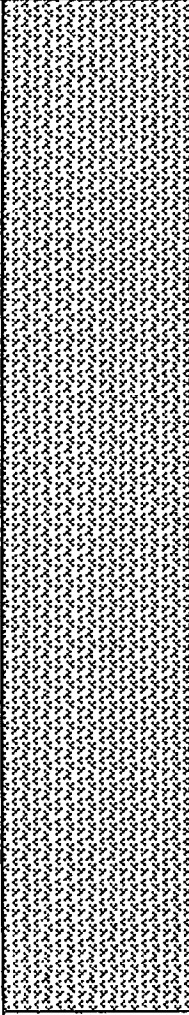



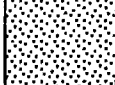

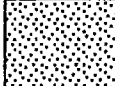





Type of Rig: CME 75

Type and Size of Auger: 8" O.D. H.S.

Logged By: J.S. Rowlands

Date Drilled: 5/21/96

Checked By: M. Marelo, R.G.#5339

Depth in Feet	WELL BORING DETAIL	Description	SOIL/ROCK SAMPLE DATA				Depth in Feet	DESCRIPTION OF LITHOLOGY							
			Interval	Blow Ct.	Field VOC (ppmv)	Graphic Log		standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.							
								And (40-50%)	With (40-25%)	Some (25-10%)	Trace (10-0%)				
25		Boring backfilled with drill cuttings		8 10			25					Fine sand with silt (SM-ML), dark olive-brown, moist			
30				10 13			30					CMF sand with silt (SW-SM), pale olive-brown, moist			
35				7 13			35						Fine sand (SP), olive-gray, dry, loose		
40				9 19			40						Fine to medium sand (SP), tan-gray, moist		
45			EOH 45 ft.					45		Groundwater encountered at approx. 43 ft.			Fine to medium sand, (SP) tan, water saturated	Clay and silt (CL-ML), gray-tan, water	
50															

B0596

SOIL BORING LOG AND MONITORING WELL CONSTRUCTION DETAILS

BORING NO. B-27

Project Name: TADCO

Project Location: 363 W. 133rd St., Los Angeles

Page 1 of 2

Driller: ABC Liovin

Type of Rig: CME 75

Type and Size of Auger: 8" O.D. H.S.

Logged By: J.S. Rowlands

Date Drilled: 5/21/96

Checked By: M. Marelo, R.G. #5339

WATER AND WELL DATA

Total Depth of Well Completed: NA

Depth of Water First Encountered: 43-44 ft.

Well Screen Type and Diameter: NA

Static Depth of Water in Well: NA

Well Screen Slot Size: NA

Total Depth of Boring: 45 ft.

Type and Size of Soil Sampler: 1.5" I.D. Split Spoon

Depth in Feet	WELLBORING DETAIL	Description	SOIL/ROCK SAMPLE DATA				Depth in Feet	DESCRIPTION OF LITHOLOGY							
			Interval	Blow Ct.	Field VOC (ppmv)	Graphic Log		standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.							
								And (40-50%)	With (40-25%)	Some (25-10%)	Trace (10-0%)				
0							0	Asphalt approx. 3 inches, highly degraded							
								Silt, some clay (ML), brick and concrete fragments (artificial fill)							
5			X	2/4			5	Fine to medium sand with silt (SM), olive-gray, slightly moist (artificial fill)							
10			X	3/5			10	Silt, some clay (ML), dark brown, moist, petroleum hydrocarbon odor							
15							15	No sample recovery at 15 ft.							
20			X	1/1			20	Fine sand with silt (SM), dark gray, water saturated, oily texture?							

B0597

SOIL BORING LOG AND MONITORING WELL CONSTRUCTION DETAILS

BORING NO. B-27

Project Name: TADCO

Project Location: 363 W. 133rd St. Los Angeles

Page 2 of 2

Driller: ABC Liovin






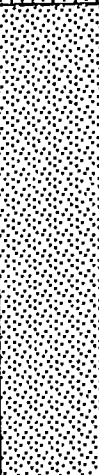




Type of Rig: CME 75

Type and Size of Auger: 8" O.D. H.S.

Logged By: J.S. Rowlands

Date Drilled: 5/21/96

Checked By: M. Marelo, R.G.#5339

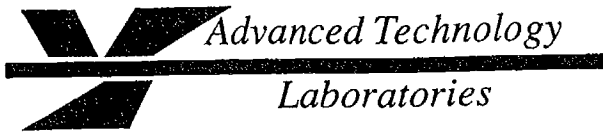
Depth in Feet	WELLBORING DETAIL	Description	SOIL/ROCK SAMPLE DATA				Depth in Feet	DESCRIPTION OF LITHOLOGY			
			Interval	Blow Ct.	Field VOC (ppmv)	Graphic Log		standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.			
								And (40-50%)	With (40-25%)	Some (25-10%)	Trace (10-0%)
25	EOH 45 ft.			1 1			25	Fine sand with silt (SM-ML), dark brown, water saturated (purchased water)			
30				4 7			30	CMF sand with silt (SM-ML), red-brown, moist			
35				7 11			35	Fine sand (SP), tan, slightly moist			
40				9 14			40	Groundwater encountered at approx. 43 ft.			
45				9 14			45	Clay and silt (CL-ML), tan-yellow, water saturated			
50											

B0598

APPENDIX II

CAL-EPA CERTIFIED LABORATORY REPORT FOR SOIL ANALYSES
AND CHAIN OF CUSTODY DOCUMENT FOR SAMPLES
COLLECTED FROM BORINGS B21 THROUGH B27
AND HA1 THROUGH HA10

B0599



May 30, 1996

ELAP No.: 1838

Aqua Science Engineers, Inc.
17895 Sky Park Circle, Suite E
Irvine, CA 92714

ATTN: Mr. Mike Marello

Client's Project #: 2992
Lab No.: 11393-001/040

Gentlemen:

Enclosed are the results for sample(s) received by Advanced Technology Laboratories on and tested for the parameters indicated in the enclosed chain of custody.

Thank you for the opportunity to service the needs of your company. Please feel free to call me at (310) 989 - 4045 if I can be of further assistance to your company.

Sincerely,

A handwritten signature in black ink, appearing to read "Edgar P. Caballero" with a stylized flourish at the end.

Edgar P. Caballero
Laboratory Director
EPC\ms

Enclosures

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

This report pertains only to the samples investigated and does not necessarily apply to other apparently identical or similar materials. This report is submitted for the exclusive use of the client to whom it is addressed. Any reproduction of this report or use of this Laboratory's name for advertising or publicity purposes without authorization is prohibited.

B0800

Mailing Address: P.O. Box 9108 Newport Beach, CA 92658
1510 E. 33rd Street Signal Hill, CA 90807 Tel: 310 989-4045 Fax: 310 989-4040

Client: Aqua Science Engineers, Inc.
 Attn: Mr. Mike Marelo

Client's Project: 2992
 Date Received: 05/22/96
 Matrix: Soil
 Units: ug/kg

EPA Method 8240:

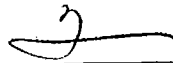
Lab No.:	Method Blank	11393-001		11393-002		11393-003		11393-004		11393-005		11393-006		11393-007	
Client Sample ID.:	--	B21-10'		B21-20'		B21-30'		B21-45'		B22-5'		B22-10'		B22-20'	
Date Sampled:	--	05/21/96		05/21/96		05/21/96		05/21/96		05/21/96		05/21/96		05/21/96	
QC Batch #:	96VOCs2117	96VOCs2117		96VOCs2117		96VOCs2117		96VOCs2117		96VOCs2117		96VOCs2117		96VOCs2117	
Date Analyzed:	05/27/96	05/27/96		05/27/96		05/27/96		05/27/96		05/27/96		05/27/96		05/27/96	
Analyst Initials:	RR	RR		RR		RR		RR		RR		RR		RR	
Dilution Factor:	1	1		1		1		10		1		1		1	
ANALYTE	MDL	DLR	Results	DLR	Results	DLR	Results	DLR	Results	DLR	Results	DLR	Results	DLR	Results
Chloromethane	5	5	ND	5	ND	5	ND	5	ND	50	ND	5	ND	5	ND
Vinyl Chloride	5	5	ND	5	ND	5	ND	5	ND	50	ND	5	ND	5	ND
Bromomethane	5	5	ND	5	ND	5	ND	5	ND	50	ND	5	ND	5	ND
Chloroethane	5	5	ND	5	ND	5	ND	5	ND	50	ND	5	ND	5	ND
Trichlorofluoromethane	5	5	ND	5	ND	5	ND	5	ND	50	ND	5	ND	5	ND
Acetone	50	50	ND	50	ND	50	ND	50	ND	500	ND	50	ND	50	ND
1,1-Dichloroethene	5	5	ND	5	ND	5	ND	5	ND	50	ND	5	ND	5	ND
Carbon Disulfide	5	5	ND	5	ND	5	ND	5	ND	50	ND	5	ND	5	ND
Methylene Chloride	5	5	ND	5	ND	5	ND	5	ND	50	ND	5	ND	5	ND
trans-1,2-Dichloroethene	5	5	ND	5	ND	5	ND	5	ND	50	ND	5	ND	5	ND
1,1-Dichloroethane	5	5	ND	5	ND	5	ND	5	ND	50	ND	5	ND	5	ND
Chloroform	5	5	ND	5	ND	5	ND	5	ND	50	ND	5	ND	5	ND
1,2-Dichloroethane	5	5	ND	5	ND	5	ND	5	ND	50	ND	5	ND	5	ND
Vinyl Acetate	5	5	ND	5	ND	5	ND	5	ND	50	ND	5	ND	5	ND
2-Butanone	50	50	ND	50	ND	50	ND	50	ND	500	ND	50	ND	50	ND
1,1,1-Trichloroethane	5	5	ND	5	ND	5	ND	5	ND	50	ND	5	ND	5	ND
Carbon Tetrachloride	5	5	ND	5	ND	5	ND	5	ND	50	ND	5	ND	5	ND
Benzene	5	5	ND	5	ND	5	ND	5	ND	50	ND	5	ND	5	ND
1,2-Dichloropropane	5	5	ND	5	ND	5	ND	5	ND	50	930	5	ND	5	ND
Trichloroethene	5	5	ND	5	ND	5	ND	5	ND	50	ND	5	ND	5	ND
Bromodichloromethane	5	5	ND	5	ND	5	ND	5	ND	50	ND	5	ND	5	ND
2-Chloroethyl Vinyl Ether	5	5	ND	5	ND	5	ND	5	ND	50	ND	5	ND	5	ND
cis-1,3-Dichloropropene	5	5	ND	5	ND	5	ND	5	ND	50	ND	5	ND	5	ND
trans-1,3-Dichloropropene	5	5	ND	5	ND	5	ND	5	ND	50	ND	5	ND	5	ND
1,1,2-Trichloroethane	5	5	ND	5	ND	5	ND	5	ND	50	ND	5	ND	5	ND
Dibromochloromethane	5	5	ND	5	ND	5	ND	5	ND	50	ND	5	ND	5	ND
Bromoform	5	5	ND	5	ND	5	ND	5	ND	50	ND	5	ND	5	ND
4-Methyl-2-Pentanone	50	50	ND	50	ND	50	ND	50	ND	500	ND	50	ND	50	ND
Toluene	5	5	ND	5	ND	5	ND	5	ND	50	ND	5	ND	5	ND
2-Hexanone	50	50	ND	50	ND	50	ND	50	ND	500	ND	50	ND	50	ND
Tetrachloroethene	5	5	ND	5	ND	5	ND	5	ND	50	ND	5	ND	5	ND
Chlorobenzene	5	5	ND	5	ND	5	ND	5	ND	50	ND	5	ND	5	ND
Ethylbenzene	5	5	ND	5	ND	5	ND	5	ND	50	ND	5	ND	5	ND
Xylene (Total)	5	5	ND	5	ND	5	ND	5	ND	50	ND	5	ND	5	ND
Styrene	5	5	ND	5	ND	5	ND	5	ND	50	ND	5	ND	5	ND
1,1,2,2-Tetrachloroethane	5	5	ND	5	ND	5	ND	5	ND	50	ND	5	ND	5	ND
1,3-Dichlorobenzene	5	5	ND	5	ND	5	ND	5	ND	50	ND	5	ND	5	ND
1,4-Dichlorobenzene	5	5	ND	5	ND	5	ND	5	ND	50	ND	5	ND	5	ND
1,2-Dichlorobenzene	5	5	ND	5	ND	5	ND	5	ND	50	ND	5	ND	5	ND

Additional 8240 Analytes

Propylene Oxide	25	25	ND	25	NA	25	NA	25	NA	250	NA	25	NA	25	NA	25	NA
-----------------	----	----	----	----	----	----	----	----	----	-----	----	----	----	----	----	----	----

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 NA = Not Analyzed

Reviewed/Approved By:

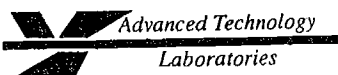

 Yun Pan
 Department Supervisor

Date:

5/30/96

B0601

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



Client: Aqua Science Engineers, Inc.
 Attn: Mr. Mike Marelo

Client's Project: 2992
 Date Received: 05/22/96
 Matrix: Soil
 Units: ug/kg

EPA Method 8240

Lab No.:	11393-024	11393-025	11393-026	11393-027	11393-028	11393-029	11393-030	11393-031									
Client Sample I.D.:	B25-10'	B25-20'	B25-30'	B25-40'	B25-45'	B26-5'	B26-10'	B26-20'									
Date Sampled:	05/21/96	05/21/96	05/21/96	05/21/96	05/21/96	05/21/96	05/21/96	05/21/96									
QC Batch #:	96VOCS2119	96VOCS2117	96VOCS2117	96VOCS2117	96VOCS2117	96VOCS2119	96VOCS2119	96VOCS2119									
Date Analyzed:	05/28/96	05/27/96	05/27/96	05/27/96	05/27/96	05/28/96	05/28/96	05/28/96									
Analyst Initials:	RR	RR	RR	RR	RR	RR	RR	RR									
Dilution Factor:	1	1	1	1	1	1	1	10									
ANALYTE	MDL	DLR	Results	DLR	Results	DLR	Results	DLR	Results	DLR	Results	DLR	Results	DLR	Results	DLR	Results
Chloromethane	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	50	ND
Vinyl Chloride	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	50	ND
Bromomethane	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	50	ND
Chloroethane	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	50	ND
Trichlorofluoromethane	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	50	ND
Acetone	50	50	73	50	57	50	ND	50	ND	50	ND	50	160	50	ND	500	ND
1,1-Dichloroethene	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	50	ND
Carbon Disulfide	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	6.7	5	ND	50	ND
Methylene Chloride	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	50	ND
trans-1,2-Dichloroethene	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	50	ND
1,1-Dichloroethane	5	5	13	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	50	ND
Chloroform	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	50	ND
1,2-Dichloroethane	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	50	ND
Vinyl Acetate	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	50	ND
2-Butanone	50	50	ND	50	ND	50	ND	50	ND	50	ND	50	ND	50	ND	500	ND
1,1,1-Trichloroethane	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	50	ND
Carbon Tetrachloride	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	50	ND
Benzene	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	50	ND
1,2-Dichloropropane	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	8.0	5	ND	50	ND
Trichloroethene	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	50	ND
Bromodichloromethane	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	50	ND
2-Chloroethyl Vinyl Ether	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	50	ND
cis-1,3-Dichloropropene	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	50	ND
trans-1,3-Dichloropropene	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	50	ND
1,1,2-Trichloroethane	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	50	ND
Dibromochloromethane	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	50	ND
Bromoform	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	50	ND
4-Methyl-2-Pentanone	50	50	ND	50	ND	50	ND	50	ND	50	ND	50	ND	50	ND	500	ND
Toluene	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	50	70
2-Hexanone	50	50	ND	50	ND	50	ND	50	ND	50	ND	50	ND	50	ND	500	ND
Tetrachloroethene	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	50	ND
Chlorobenzene	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	50	280
Ethylbenzene	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	50	2090
Xylene (Total)	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	50	ND
Styrene	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	50	ND
1,1,2,2-Tetrachloroethane	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	50	ND
1,3-Dichlorobenzene	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	50	ND
1,4-Dichlorobenzene	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	50	ND
1,2-Dichlorobenzene	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	50	ND

Additional 8240 Analytes

Propylene Oxide	25	25	NA	25	NA	25	NA	25	NA	25	NA	25	NA	25	NA	250	NA
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MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 NA = Not Analyzed

Reviewed/Approved By: 
 Yun Pan
 Department Supervisor

Date: 5/30/96

B0602

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

Client: Aqua Science Engineers, Inc.
 Attn: Mr. Mike Marelo

Client's Project: 2992
 Date Received: 05/22/96
 Matrix: Soil
 Units: ug/kg

EPA Method 8240:

Lab No.:	11393-032			11393-033			11393-034			11393-035			11393-036			11393-037			11393-038			11393-039		
Client Sample ID.:	B26-30'			B26-40'			B26-45'			B27-5'			B27-10'			B27-20'			B27-30'			B27-40'		
Date Sampled:	05/21/96			05/21/96			05/21/96			05/21/96			05/21/96			05/21/96			05/21/96			05/21/96		
QC Batch #:	96VOCs2119			96VOCs2119			96VOCs2119			96VOCs2119			96VOCs2119			96VOCs2119			96VOCs2119			96VOCs2119		
Date Analyzed:	05/28/96			05/28/96			05/28/96			05/28/96			05/28/96			05/28/96			05/28/96			05/28/96		
Analyst Initials:	RR			RR			RR			RR			RR			RR			RR			RR		
Dilution Factor:	1			1			1			1			1			1			1			1		
ANALYTE	MDL	DLR	Results	DLR	Results	DLR	Results	DLR	Results	DLR	Results	DLR	Results	DLR	Results	DLR	Results	DLR	Results	DLR	Results	DLR	Results	
Chloromethane	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	
Vinyl Chloride	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	
Bromomethane	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	
Chloroethane	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	
Trichlorofluoromethane	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	
Acetone	50	50	ND	50	ND	50	ND	50	ND	50	51	50	ND	50	ND	50	ND	50	ND	50	ND	50	ND	
1,1-Dichloroethene	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	
Carbon Disulfide	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	
Methylene Chloride	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	
trans-1,2-Dichloroethene	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	
1,1-Dichloroethane	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	
Chloroform	5	5	ND	5	ND	5	5.7	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	
1,2-Dichloroethane	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	
Vinyl Acetate	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	
2-Butanone	50	50	ND	50	ND	50	ND	50	ND	50	ND	50	ND	50	ND	50	ND	50	ND	50	ND	50	ND	
1,1,1-Trichloroethane	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	
Carbon Tetrachloride	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	
Benzene	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	
1,2-Dichloropropane	5	5	ND	5	ND	5	ND	5	57	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	15	
Trichloroethene	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	
Bromodichloromethane	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	
2-Chloroethyl Vinyl Ether	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	
cis-1,3-Dichloropropene	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	
trans-1,3-Dichloropropene	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	
1,1,2-Trichloroethane	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	
Dibromochloromethane	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	
Bromoform	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	
4-Methyl-2-Pentanone	50	50	ND	50	ND	50	ND	50	ND	50	ND	50	ND	50	ND	50	ND	50	ND	50	ND	50	ND	
Toluene	5	5	ND	5	ND	5	ND	5	ND	5	ND	50	ND	50	ND	50	ND	50	ND	50	ND	50	ND	
2-Hexanone	50	50	ND	50	ND	50	ND	50	ND	50	ND	50	ND	50	ND	50	ND	50	ND	50	ND	50	ND	
Tetrachloroethene	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	
Chlorobenzene	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	
Ethylbenzene	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	
Xylene (Total)	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	
Styrene	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	
1,1,2,2-Tetrachloroethane	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	
1,3-Dichlorobenzene	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	
1,4-Dichlorobenzene	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	
1,2-Dichlorobenzene	5	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	

Additional 8240 Analytes

Propylene Oxide	25	25	NA	25	NA	25	NA	25	NA	25	NA	25	NA	25	NA	25	NA	25	NA	25	NA	25	NA
-----------------	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL X Dilution Factor
 NA = Not Analyzed

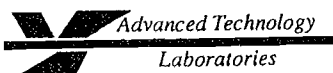
Reviewed/Approved By: _____

Yun Pan
 Department Supervisor

Date: 5/30/96

B0603

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



Spike Recovery and RPD Summary Report - SOIL (MG/KG)

Method : C:\HPCHEM\5\METHODS\DIAMINE.M
 Title :
 Last Update : Fri May 31 09:05:55 1996
 Response via : Initial Calibration

Non-Spiked Sample: D7051.D

Spike Sample	Spike Duplicate Sample
File ID : DS7029.D	DS7030.D
Sample : 11393-18 MS SOIL E5-30-96	11393-18 MSD SOIL E5-30-96
Acq Time: 31 May 96 10:00 AM	31 May 96 09:51 AM

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits % Rec
Ethylenediamine	0.0	200	140	104	70	52	29	50	50-150

QC Batch #: 968015AS039

Reviewed/Approved By: _____



Yun Pan

Organics Supervisor

Date: 6/3/96

B0606

CHAIN OF CUSTODY RECORD

Log Number

Client name: Agua Science Engineers, Inc.
 Address: 17895 Sky Park Circle, Ste E.
 City, State, Zip: Irvine, CA 92714
 Project #: 2992
 Phone #: 714 833-3667
 Fax #: 714 833-3468

Report attention: Mike Marello
 Sampled by: Michael Merello
 Sample description: soil in brass tube

Sample number	Date Sampled	Time Sampled	Type* See Key below	Number of containers
B21-10'	5/21		soil	1
B21-20'				
B21-30'				
B21-45'				
B22-5'				
B22-5'				
B22-10'				
B22-20'				
B22-30'				
B22-40'				
B22-45'				
B23-5'				

Analyses required

Hazardous sample
Special handling required

Remarks

EPA 8240

Company	Date	Time
ASE	5/22/96	1:00 PM
ASE	5/22/96	1:00 PM
ASE	5/22/96	2:30 PM
ATL	5/22/96	2:30 PM

Signature	Print Name
<i>Michael Merello</i>	Michael Merello
<i>Brad Mann</i>	Brad Mann
<i>Brad Mann</i>	Brad Mann
<i>Peter Perez</i>	Peter Perez
Relinquished by	
Received by	
Relinquished by	
Received by	
Relinquished by	
Received by	

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 expense.

* Key: AQ-Aqueous NA-Nonaqueous SL-Sludge GW-Groundwater SO-Soil OT-Other PE-Petroleum
 DISTRIBUTION: WHITE with report / YELLOW To-CHEMTEK / PINK To courier

CHEMTEK ENVIRONMENTAL LABORATORIES INC.

1440 Alondra Boulevard, Suite A

Santa Fe Springs, Ca. 90670

Tel: (310) 926-9848 Fax: (310) 926-8324

B0607

CHAIN OF CUSTODY RECORD

Log Number

Sample number	Date Sampled	Time Sampled	Type* See key below	Sampled by	Sample description	Number of containers	Analyses required			Remarks
							FPA 8240	Ethylene Dichloride	Perchloro Ethylene	
B23-10'	5/21		Soil		Soil in brass tube	1	X	X	X	
B23-20'							X	X	X	
B23-30'							X	X	X	
B23-40'							X	X	X	
B23-45'							X	X	X	
B24-5'							X	X	X	
B24-10'							X	X	X	
B24-20'							X	X	X	
B24-30'							X	X	X	
B24-40'							X	X	X	
B24-45'							X	X	X	
B25-5'							X	X	X	

Signature	Print Name	Company	Date	Time
<i>Michael M...</i>	Michael Marello	ASE	5/22/96	1:00 PM
<i>Brad Mann</i>	Brad Mann	ASE	5/22/96	1:00 PM
<i>Brad Mann</i>	Brad Mann	ASE	5/22/96	2:30 PM
<i>Peter Keller</i>	Peter Keller	ATL	5/22/96	2:30 PM

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 expense.

* Key: AQ-Aqueous NA-Nonaqueous SL-Sludge GW-Groundwater SO-Soil OT-Other PE-Petroleum
 DISTRIBUTION: WHITE with report / YELLOW To-CHEMTEK / PINK To courier

CHEMTEK ENVIRONMENTAL LABORATORIES INC.

1440 Alondra Boulevard, Suite A
 Santa Fe Springs, Ca. 90670
 Tel: (310) 926-9848 Fax: (310) 926-8924

B0608

CHAIN OF CUSTODY RECORD

Log Number

Client name		Project #		Phone #		Fax #	
Address		City, State, Zip		Report attention		Sampled by	
Sample number	Date Sampled	Time Sampled	Type* See key below	Sample description	Number of containers	Analyses required	Remarks
B25-10'	5/21		soil	soil in brass tube	1	ETPA 8240	
B25-20'							
B25-30'							
B25-40'							
B25-45'							
B26-5'							
B26-10'							
B26-20'							
B26-30'							
B26-40'							
B26-45'							
B27-5'							
Relinquished by		Signature		Print Name		Company	
		<i>Michael Marcella</i>		Michael Marcella		ASE	
Received by		<i>Brad Mann</i>		Brad Mann		ASE	
Relinquished by		<i>Brad Mann</i>		Brad Mann		ASE	
Received by		<i>Peter Perez</i>		PETER PEREZ		ATL	
Relinquished by							
Received by Laboratory						Date	
						5/22/96 1:00 PM	
						5/22/96 1:00 PM	
						5/22/96 2:30 PM	
						5/22/96 2:30	

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 expense.

* Key: AQ-Aqueous NA-Nonaqueous SL-Sludge GW-Groundwater SO-Soil OT-Other PE-Petroleum
 METROBITION. WHITE with report / YEL LOW To CHEMTEK / PINK To courier

CHEMTEK ENVIRONMENTAL LABORATORIES INC.

14140 Alondra Boulevard, Suite A
 Santa Fe Springs, Ca. 90670
 Tel: (310) 926-9848 Fax: (310) 926-8324

B0609

CHAIN OF CUSTODY RECORD

Log Number

Client name: Aqua Science Engineers, Inc.
 Address: _____
 City, State, Zip: _____
 Project #: 2992
 Phone #: _____
 Fax #: _____

Sample number	Date Sampled	Time Sampled	Type* See key below	Report attention		Number of containers	Remarks
				Sampled by	Sample description		
B27-10'	5/21		soil		soil in brass tube	1	
B27-20'							
B27-30'							
B27-40'							
B27-45'	↓	↓	↓		↓	↓	

Analyses required

FPA 8240

Hazardous sample
Special handling required

Signature	Print Name	Company	Date	Time
<i>Michael Marello</i>	Michael Marello	ASE	5/22/96	1:00PM
<i>Brad Mann</i>	Brad Mann	ASE	5/22/96	1:00PM
<i>Brad Mann</i>	Brad Mann	ASE	5/22/96	2:30PM
<i>Peter Peter</i>	Peter Peter	ATC	5/22/96	2:30PM
Relinquished by				
Received by				
Relinquished by				
Received by				
Relinquished by				
Received by				

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 expense.

* Key: AQ-Aqueous NA-Nonaqueous SL-Sludge GW-Groundwater SO-Soil OT-Other PE-Petroleum

CHEMTEK ENVIRONMENTAL LABORATORIES INC.
 14140 Alexander Boulevard, Suite A
 Santa Fe Springs, Ca. 90670
 Tel: (310) 926-9848 Fax: (310) 926-8224

0 T



Southland Technical Services, Inc.
Environmental Laboratories

7801 Telegraph Road, Suite J
Montebello, CA 90640

Phone (213) 888-0728
Fax (213) 888-1509

06-03-1996

Mr. Scott Rowlands
Aqua Science Engineers
17895 Sky Park Circle, Suite E.
Irvine, CA 92714

Project: BIG-TADCO
Project Site: 363 W. 133rd St.
Sample Date: 05-17-1996
Lab Job No.: G60553

Dear Mr. Rowlands:

Enclosed please find the analytical report for the sample(s) received by STS Environmental Laboratories on 05-17-1996 and analyzed by the following EPA methods:

EPA 8020 (BTEX)
EPA 8015M (Diesel)
EPA 8270

The EPA 8270 analysis was subcontracted out to Advanced Technology Laboratories (ELAP No. 1838).

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 (213) 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.

B0611



Southland Technical Services, Inc.
Environmental Laboratories

7801 Telegraph Road, Suite J
Montebello, CA 90640

Phone (213) 888-0728
Fax (213) 888-1509

06-03-1996

Client: Aqua Science Engineers
Project: BIG-TADCO
Project Site: 363 W. 133rd St.
Matrix: Soil
Batch No. : 0520-D1

Lab Job No.: G60553
Date Sampled: 05-17-96
Date Received: 05-17-96
Date Analyzed: 05-20-96

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

Sample ID	Lab ID	Diesel	Detection Limit
HA-1-1	G0553-1	43 *	10
HA-2-1	G0553-2	81 *	10
HA-3-1	G0553-3	150 *	10
HA-4-1	G0553-4	150 *	10
HA-5-1	G0553-5	120 *	10
HA-6-1	G0553-6	2,000 **	10
HA-7-1	G0553-7	ND	10
HA-8-1	G0553-8	100 *	10

* The hydrocarbons found in these samples are in the waste oil carbon range (> C23).

** The carbon range for sample HA-6-1 is approximately from C10 to C23, which is the carbon range for diesel fuel.

ND: Not Detected (at the specified limit)



Southland Technical Services, Inc.
Environmental Laboratories

7801 Telegraph Road, Suite J
Montebello, CA 90640

Phone (213) 888-0728
Fax (213) 888-1509

06-03-1996

Client: Aqua Science Engineers
Project: BIG-TADCO
Project Site: 363 W. 133rd St.
Matrix: Soil
Batch No. : 0530-G2

Lab Job No.: G60553
Date Sampled: 05-17-96
Date Received: 05-17-96
Date Analyzed: 05-30-96

EPA Method 8020 (BTEX)
Reporting Units: mg/kg (ppm)

Sample ID	Lab ID	DF	Benzene	Toluene	Ethyl- benzene	Total Xylenes
	MDL		0.005	0.005	0.005	0.015
HA-2-1	G0553-2	1	ND	ND	ND	ND
HA-5-1	G0553-5	1	ND	ND	ND	ND
HA-6-1	G0553-6	40	ND	ND	0.27	1.8

DF: Dilution Factor ($DF \times MDL = \text{Reporting Limit}$ for the sample).
ND: Not Detected (at the specified limit).



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06-03-1996

Client:	Aqua Science Engineers	Lab Job No.:	G60553
Project:	BIG-TADCO	Date Sampled:	05-17-96
Project Site:	363 W. 133rd St.	Date Received:	05-17-96
Matrix:	Soil	Date Extracted:	05-29-96
Extraction Method:	EPA 3550	Date Analyzed:	05-30-96

SEMI-VOLATILE ORGANICS BY EPA 8270(GC/MS), Page 1 of 2
Reporting Unit:mg/kg (ppm)

Sample ID:	MB	HA-3-1	HA-4-1	MDL
Lab Sample ID:		G0553-3	G0553-4	
DF	1	5	5	
Phenol	ND	ND	ND	0.33
Bis(2-chloroethyl) ether	ND	ND	ND	0.33
2-Chlorophenol	ND	ND	ND	0.33
1,3-Dichlorobenzene	ND	ND	ND	0.33
1,4-Dichlorobenzene	ND	ND	ND	0.66
Benzyl alcohol	ND	ND	ND	0.33
1,2-Dichlorobenzene	ND	ND	ND	0.33
2-Methylphenol (o-cresol)	ND	ND	ND	0.33
Bis(2-chloroisopropyl)ether	ND	ND	ND	0.33
N-Nitrosodi-n-propylamine	ND	ND	ND	0.33
4-Methylphenol (p-cresol)	ND	ND	ND	0.33
Hexachloroethane	ND	ND	ND	0.33
Nitrobenzene	ND	ND	ND	0.33
Isophorone	ND	ND	ND	0.33
2-Nitrophenol	ND	ND	ND	0.33
2,4-Dimethylphenol	ND	ND	ND	0.33
Bis(2-chloroethoxy) methane	ND	ND	ND	0.33
2,4-Dichlorophenol	ND	ND	ND	1.65
Benzoic acid	ND	ND	ND	0.33
1,2,4-Trichlorobenzene	ND	ND	ND	0.33
Naphthalene	ND	ND	ND	0.66
4-Chloroaniline	ND	ND	ND	0.33
Hexachlorobutadiene	ND	ND	ND	0.66
4-Chloro-3-methylphenol	ND	ND	ND	0.33
2-Methylnaphthalene	ND	ND	ND	0.66
Hexachlorocyclopentadiene	ND	ND	ND	0.33
2,4,6-Trichlorophenol	ND	ND	ND	0.50
2,4,5-Trichlorophenol	ND	ND	ND	0.33
2-Chloronaphthalene	ND	ND	ND	1.65
2-Nitroaniline	ND	ND	ND	0.33
Dimethylphthalate	ND	ND	ND	



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06-03-1996

Client: Aqua Science Engineers
Project: BIG-TADCO
Date Extracted: 05-29-1996

Lab Job No.: G60553
Date Sampled: 05-17-96
Date Analyzed: 05-30-1996

SEMI-VOLATILE ORGANICS BY EPA 8270(GC/MS), Page 2 of 2
Reporting Unit:mg/kg (ppm)

Sample ID:	MB	HA-3-1	HA-4-1	MDL
Lab Sample ID:		G0553-3	G0553-4	
DF	1	5	5	
Acenaphthylene	ND	ND	ND	0.33
2,6-Dinitrotoluene	ND	ND	ND	0.33
3-Nitroaniline	ND	ND	ND	1.65
Acenaphthene	ND	ND	ND	0.33
2,4-Dinitrophenol	ND	ND	ND	1.65
Dibenzofuran	ND	ND	ND	0.33
4-Nitrophenol	ND	ND	ND	1.65
2,4-Dinitrotoluene	ND	ND	ND	0.33
Fluorene	ND	ND	ND	0.33
Diethylphthalate	ND	ND	ND	0.33
4-Chlorophenyl phenyl ether	ND	ND	ND	0.33
4-Nitroaniline	ND	ND	ND	1.65
4,6-Dinitro-2-methylphenol	ND	ND	ND	1.65
N-Nitrosodiphenylamine	ND	ND	ND	0.33
4-Bromophenyl-phenyl ether	ND	ND	ND	0.33
Hexachlorobenzene	ND	ND	ND	0.33
Pentachlorophenol	ND	ND	ND	1.65
Phenanthrene	ND	ND	ND	0.33
Anthracene	ND	ND	ND	0.33
Di-n-butylphthalate	ND	ND	ND	0.33
Fluoranthene	ND	ND	ND	0.33
Pyrene	ND	ND	ND	0.33
Butyl benzylphthalate	ND	ND	ND	0.33
Benzo(a)anthracene	ND	ND	ND	0.33
3,3'-Dichlorobenzidine	ND	ND	ND	0.66
Chrysene	ND	ND	ND	0.33
Bis(2-Ethylhexyl)phthalate	ND	2.85	ND	0.33
Di-n-octylphthalate	ND	ND	ND	0.33
Benzo(b)fluoranthene	ND	ND	ND	0.33
Benzo(k)fluoranthene	ND	ND	ND	0.33
Benzo(a)pyrene	ND	ND	ND	0.33
Indeno(1,2,3-cd)pyrene	ND	ND	ND	0.33
Dibenz(a,h)anthracene	ND	ND	ND	0.33
Benzo(g,h,i)perylene	ND	ND	ND	0.33

ND=Not Detected

MDL=Method Detection Limit

MB=Method Blank

DF=Dilution Factor (DF × MDL = Reporting Limit for the sample).

B0615



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06-03-1996

**EPA 8015M (Diesel)
Batch QA/QC Report**

Client: Aqua Science Engineers
Project: BIG-TADCO
Matrix: Soil
Batch No. : 0520-D1

Lab Job No.: G60553
Sampled ID: G0553-7
Date Analyzed: 05-20-1996

**I. MS/MSD Report
Units: mg/kg (ppm)**

Analyte	Sample Conc.	Spike Added	MS Res.	MS %Rec.	MSD Res.	MSD %Rec.	%RPD	Accept. Limit (%) for %Rec.	Accept. Limit(%) for %RPD
Diesel	ND	200	244	122	218	109	11	70-130	30

**II. Laboratory Control Sample
Units: mg/kg (ppm)**

Analyte	LCS Result	True Value	%Rec	Accept. Limit (%)
Diesel	217	200	109	80-120

ND: Not Detected (at the specified limit)



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06-03-1996

**EPA 8020
Batch QA/QC Report**

Client: Aqua Science Engineers
Project: BIG-TADCO
Matrix: Soil
Batch No.: 0530-G2

Lab Job No.: G60553
Date Analyzed: 05-30-96
Lab Sample ID: R0585-16

**I. MS/MSD Report
Units: $\mu\text{g}/\text{kg}$ (ppb)**

Analyte	Sample Conc.	Spike Added	MS Res.	MS %Rec.	MSD Res.	MSD %Rec.	%RPD	Accept. Limit (%) for %Rec.	Accept. Limit(%) for %RPD
Benzene	ND	200	201	101	214	107	6.3	70-130	30
Toluene	ND	200	200	100	228	114	13	70-130	30

**II. Laboratory Control Sample
Units: $\mu\text{g}/\text{kg}$ (ppb)**

Analyte	LCS Result	True Value	%Rec	Accept. Limit (%)
Benzene	187	200	93.5	80-120
Toluene	190	200	95.0	80-120

ND: Not Detected (at the specified limit)



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06-03-1996

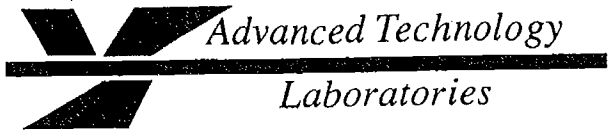
Client: Aqua Science Engineers Lab Job No.: G60553
Project: BIG-TADCO
Matrix: Soil Sample ID: BLK-MS Soil E-5/29/96
Batch No.: 968270S091 Date Analyzed: 05-29-1996

EPA 8270 MS/MSD Report

Units: mg/kg (ppm)

Analyte	Sample Conc.	Spike Added	MS Res.	MS %Rec.	MSD Res.	MSD %Rec.	%RPD	Accept. Limit (%) for %Rec.	Accept. Limit(%) for %RPD
Phenol	0.0	0.20	0.140	70	0.132	66	5	26-90	35
2-Chlorophenol	0.0	0.10	0.067	67	0.058	58	15	28-104	27
n-Nitroso-di-n-propylamine	0.0	0.10	0.081	81	0.076	76	5	41-126	38
1,2,4-Trichlorobenzene	0.0	0.10	0.081	81	0.071	71	13	38-107	23
4-Chloro-3-methylphenol	0.0	0.20	0.163	82	0.165	83	1	26-103	33
Acenaphthene	0.0	0.10	0.084	84	0.084	84	1	31-137	19
4-Nitrophenol	0.0	0.20	0.172	86	0.179	90	4	11-114	50
2,4-Dinitrotoluene	0.0	0.10	0.093	93	0.098	98	5	28-89	47
Pentachlorophenol	0.0	0.20	0.181	90	0.192	96	6	17-109	47
Pyrene	0.0	0.10	0.093	92	0.101	101	8	35-142	36

B0618



May 31, 1996

ELAP No.: 1838

Southland Technical Services Environmental Laboratories, Inc.
7801 Telegraph Road, Suite J
Montebello, CA 90640

ATTN: Mr. Roger Wang

Client's Project #: BIG-TADCO, G60553
Lab No.: 11432-001/002

Gentlemen:

Enclosed are the results for sample(s) received by Advanced Technology Laboratories on and tested for the parameters indicated in the enclosed chain of custody.

Thank you for the opportunity to service the needs of your company. Please feel free to call me at (310) 989 - 4045 if I can be of further assistance to your company.

Sincerely,

A handwritten signature in black ink, appearing to read 'Edgar P. Caballero', written in a cursive style.

Edgar P. Caballero
Laboratory Director
EPC\ms

Enclosures

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

This report pertains only to the samples investigated and does not necessarily apply to other apparently identical or similar materials. This report is submitted for the exclusive use of the client to whom it is addressed. Any reproduction of this report or use of this Laboratory's name for advertising or publicity purposes without authorization is prohibited.

B0620

Mailing Address: P.O. Box 9108 Newport Beach, CA 92658
1510 E. 33rd Street Signal Hill, CA 90807 Tel: 310 989-4045 Fax: 310 989-4040

Client: STS Environmental Laboratories, Inc.
 Attn: Mr. Roger Wang

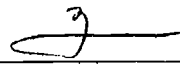
Client's Project: BIG-TADCO, G60553

Date Received: 05/24/96
 Matrix: Soil
 Units: ug/kg
 Extraction Method: 3550

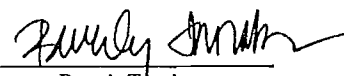
EPA Method: 8270

Lab No.:	Method Blank		11432-001		11432-002						
Client Sample I.D.:	--		HA-3-1		HA-4-1						
Date Sampled:	--		NA		NA						
QC Batch #:	968270S091		968270S091		968270S091						
Date Extracted:	05/29/96		05/29/96		05/29/96						
Date Analyzed:	05/30/96		05/30/96		05/30/96						
Analyst Initials:	YP		YP		YP						
Dilution Factor:	1		5		5						
ANALYTE	MDL	DLR	Results	DLR	Results	DLR	Results				
Phenol	330	330	ND	1650	ND	1650	ND				
bis(2-Chloroethyl)ether	330	330	ND	1650	ND	1650	ND				
2-Chlorophenol	330	330	ND	1650	ND	1650	ND				
1,3-Dichlorobenzene	330	330	ND	1650	ND	1650	ND				
1,4-Dichlorobenzene	330	330	ND	1650	ND	1650	ND				
Benzyl Alcohol	660	660	ND	3300	ND	3300	ND				
1,2-Dichlorobenzene	330	330	ND	1650	ND	1650	ND				
2-Methylphenol	330	330	ND	1650	ND	1650	ND				
bis(2-chloroisopropyl)ether	330	330	ND	1650	ND	1650	ND				
n-Nitroso-di-n-propylamine	330	330	ND	1650	ND	1650	ND				
4-Methylphenol	330	330	ND	1650	ND	1650	ND				
Hexachloroethane	330	330	ND	1650	ND	1650	ND				
Nitrobenzene	330	330	ND	1650	ND	1650	ND				
Isophorone	330	330	ND	1650	ND	1650	ND				
2-Nitrophenol	330	330	ND	1650	ND	1650	ND				
2,4-Dimethylphenol	330	330	ND	1650	ND	1650	ND				
bis(2-Chloroethoxy)methane	330	330	ND	1650	ND	1650	ND				
2,4-Dichlorophenol	330	330	ND	1650	ND	1650	ND				
Benzoic Acid	1650	1650	ND	8250	ND	8250	ND				
1,2,4-Trichlorobenzene	330	330	ND	1650	ND	1650	ND				
Naphthalene	330	330	ND	1650	ND	1650	ND				
4-Chloroaniline	660	660	ND	3300	ND	3300	ND				
Hexachlorobutadiene	330	330	ND	1650	ND	1650	ND				
4-Chloro-3-methylphenol	660	660	ND	3300	ND	3300	ND				
2-Methylnaphthalene	330	330	ND	1650	ND	1650	ND				
Hexachlorocyclopentadiene	660	660	ND	3300	ND	3300	ND				
2,4,6-Trichlorophenol	330	330	ND	1650	ND	1650	ND				
2,4,5-Trichlorophenol	500	500	ND	2500	ND	2500	ND				
2-Chloronaphthalene	330	330	ND	1650	ND	1650	ND				
2-Nitroaniline	1650	1650	ND	8250	ND	8250	ND				
Dimethylphthalate	330	330	ND	1650	ND	1650	ND				
Acenaphthylene	330	330	ND	1650	ND	1650	ND				
2,6-Dinitrotoluene	330	330	ND	1650	ND	1650	ND				
3-Nitroaniline	1650	1650	ND	8250	ND	8250	ND				

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL x Dilution Factor
 NA = Not Analyzed

Approved/Reviewed By: 
 Yun Pan
 Department Supervisor

Date: 6/3/96

Approved/Reviewed By: 
 Beverly Tanaka
 QA/QC Officer

Date: 6/4/96

B0621

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

Client: STS Environmental Laboratories, Inc.
 Attn: Mr. Roger Wang

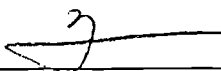
Client's Project: BIG-TADCO, G60553

Date Received: 05/24/96
 Matrix: Soil
 Units: ug/kg
 Extraction Method: 3550

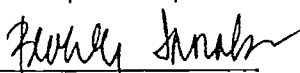
EPA Method 8270 (Cont'd)

Lab No.:	Method Blank		11432-001		11432-002					
Client Sample I.D.:	---		HA-3-1		HA-4-1					
ANALYTE	MDL	DLR	Results	DLR	Results	DLR	Results			
Acenaphthene	330	330	ND	1650	ND	1650	ND			
2,4-Dinitrophenol	1650	1650	ND	8250	ND	8250	ND			
Dibenzofuran	330	330	ND	1650	ND	1650	ND			
4-Nitrophenol	1650	1650	ND	8250	ND	8250	ND			
2,4-Dinitrotoluene	330	330	ND	1650	ND	1650	ND			
Fluorene	330	330	ND	1650	ND	1650	ND			
Diethylphthalate	330	330	ND	1650	ND	1650	ND			
4-Chlorophenyl-phenyl ether	330	330	ND	1650	ND	1650	ND			
4-Nitroaniline	1650	1650	ND	8250	ND	8250	ND			
4,6-Dinitro-2-methylphenol	1650	1650	ND	8250	ND	8250	ND			
n-Nitrosodiphenylamine	330	330	ND	1650	ND	1650	ND			
4-Bromophenyl-phenyl ether	330	330	ND	1650	ND	1650	ND			
Hexachlorobenzene	330	330	ND	1650	ND	1650	ND			
Pentachlorophenol	1650	1650	ND	8250	ND	8250	ND			
Phenanthrene	330	330	ND	1650	ND	1650	ND			
Anthracene	330	330	ND	1650	ND	1650	ND			
Di-n-butylphthalate	330	330	ND	1650	ND	1650	ND			
Fluoranthene	330	330	ND	1650	ND	1650	ND			
Pyrene	330	330	ND	1650	ND	1650	ND			
Butylbenzylphthalate	330	330	ND	1650	ND	1650	ND			
Benzo[a]anthracene	330	330	ND	1650	ND	1650	ND			
3,3'-Dichlorobenzidine	660	660	ND	3300	ND	3300	ND			
Chrysene	330	330	ND	1650	ND	1650	ND			
bis(2-Ethylhexyl)phthalate	330	330	ND	1650	2850	1650	ND			
Di-n-octylphthalate	330	330	ND	1650	ND	1650	ND			
Benzo[b]fluoranthene	330	330	ND	1650	ND	1650	ND			
Benzo[k]fluoranthene	330	330	ND	1650	ND	1650	ND			
Benzo[a]pyrene	330	330	ND	1650	ND	1650	ND			
Indeno[1,2,3-cd]pyrene	330	330	ND	1650	ND	1650	ND			
Dibenz[a,h]anthracene	330	330	ND	1650	ND	1650	ND			
Benzo[g,h,i]perylene	330	330	ND	1650	ND	1650	ND			

MDL = Method Detection Limit
 ND = Not Detected (Below DLR)
 DLR = MDL x Dilution Factor
 NA = Not Analyzed

Approved/Reviewed By: 
 Yun Pan
 Department Supervisor

Date: 6/3/96

Approved/Reviewed By: 
 Beverly Tanaka
 QA/QC Officer

Date: 6/4/96

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

B0622



Southland Technical Services, Inc.
Environmental Laboratories

7801 Telegraph Road, Suite J
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Phone (213) 888-0728
Fax (213) 888-1509

05-24-1996

Mr. Scott Rowlands
Aqua Science Engineers
17895 Sky Park Circle, Suite E.
Irvine, CA 92714

Project: Tadco
Project Site: Tadco 15335 Broadway
Sample Date: 05-22-1996
Lab Job No.: G60566

Dear Mr. Rowlands:

Enclosed please find the analytical report for the sample(s) received by STS Environmental Laboratories on 05-22-1996 and analyzed by the following EPA methods:

EPA 418.1 (TRPH)
EPA 8015M (Diesel)

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 the CA DHS (Certificate Number 1986). Thank you for giving us the opportunity to serve you. Please feel free to call me at (213) 888-0728 if our Laboratory can be of further service to you.

Sincerely,

A handwritten signature in black ink, appearing to read "Roger Wang", is written over a horizontal line.

Roger Wang, Ph. D.
Laboratory Director

Enclosures

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



Southland Technical Services, Inc.
Environmental Laboratories

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Montebello, CA 90640

Phone (213) 888-0728
Fax (213) 888-1509

05-24-1996

Client: Aqua Science Engineers
Project: Tadco
Project Site: Tadco 15335 Broadway
Matrix: Soil
Batch No.: 0522-T1

Lab Job No.: G60566
Date Sampled: 05-22-96
Date Received: 05-22-96
Date Analyzed: 05-22-96

EPA Method 418.1 (TRPH)
Reporting Units: mg/kg (ppm)

Sample ID	Lab ID	TRPH	Detection Limit
HA-9	G0566-1	320	10
HA-10	G0566-2	390	10

ND: Not Detected (at the specified limit).



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05-24-1996

Client: Aqua Science Engineers
Project: Tadco
Project Site: Tadco 15335 Broadway
Matrix: Soil
Batch No.: 0522-D1

Lab Job No.: G60566
Date Sampled: 05-22-96
Date Received: 05-22-96
Date Analyzed: 05-23-96

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

Sample ID	Lab ID	Diesel (C10-C23)	Detection Limit
HA-9	G0566-1	ND *	10
HA-10	G0566-2	ND *	10

* GC chromatograms show that heavy hydrocarbons are present in the samples. The carbon ranges are higher than C24 and thus cannot be classified as diesel fuel.

ND: Not Detected (at the specified limit).



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05-24-1996

**EPA 418.1 (TRPH)
Batch QA/QC Report**

Client: Aqua Science Engineers
Project: Tadco
Matrix: Soil
Batch No. : 0522-T1

Lab Job No.: G60566
Sampled ID: SS0522-1
Date Analyzed: 05-22-96

**I. MS/MSD Report
Units: mg/kg (ppm)**

Analyte	Sample Conc.	Spike Added	MS Res.	MS %Rec.	MSD Res.	MSD %Rec.	%RPD	Accept. Limit (%) for %Rec.	Accept. Limit(%) for %RPD
TRPH	ND	40	40.8	102	43.0	108	5.3	70-130	30

**II. Laboratory Control Sample
Units: mg/kg (ppm)**

Analyte	LCS Result	True Value	%Rec	Accept. Limit (%)
TRPH	23.6	20	118	80-120

ND: Not Detected (at the specified limit)



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Environmental Laboratories

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Phone (213) 888-0728
Fax (213) 888-1509

05-24-1996

**EPA 8015M (Diesel)
Batch QA/QC Report**

Client: Aqua Science Engineers
Project: Tadco
Matrix: Soil
Batch No: 0522-D1

Lab Job No.: G60566
Lab Sample ID: Q0559-3
Date Analyzed: 05-22-1996

**I. MS/MSD Report
Units: mg/kg (ppm)**

Analyte	Sample Conc.	Spike Added	MS Res.	MS %Rec.	MSD Res.	MSD %Rec.	%RPD	Accept. Limit (%) for %Rec.	Accept. Limit(%) for %RPD
Diesel	ND	200	237	119	199	99.5	17	70-130	30

**II. Laboratory Control Sample
Units: mg/kg (ppm)**

Analyte	LCS Result	True Value	%Rec	Accept. Limit (%)
Diesel	227	200	114	80-120

ND: Not Detected (at the specified limit)



Southland Technical Services, Inc.
Environmental Laboratories

7801 Telegraph Road, Suite J
Montebello, CA 90640

Phone (213) 888-0728
Fax (213) 888-1509

05-28-1996

Client: Aqua Science Engineers
Project: Tadco
Project Site: 363 W 133rd St.
Matrix: Soil
Batch No.: 0522-D1

Lab Job No.: G60558
Date Sampled: 05-21-96
Date Received: 05-21-96
Date Analyzed: 05-22-96

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

Sample ID	Lab ID	Diesel (C10-C23)	Detection Limit
B-27-5	G0558-1	ND	10
B-27-10	G0558-2	ND*	10
B-27-20	G0558-3	ND	10
B-27-25	G0558-4	ND	10

* GC chromatograms show that heavy hydrocarbons are present in the sample. The carbon range is higher than C24 and thus cannot be classified as diesel fuel.

ND: Not Detected (at the specified limit).



Southland Technical Services, Inc.
Environmental Laboratories

7801 Telegraph Road, Suite J
Montebello, CA 90640

Phone (213) 888-0728
Fax (213) 888-1509

05-28-1996

**EPA 8015M (Diesel)
Batch QA/QC Report**

Client: Aqua Science Engineers
Project: Tadco
Matrix: Soil
Batch No: 0522-D1

Lab Job No.: G60558
Lab Sample ID: Q0559-3
Date Analyzed: 05-22-1996

**I. MS/MSD Report
Units: mg/kg (ppm)**

Analyte	Sample Conc.	Spike Added	MS Res.	MS %Rec.	MSD Res.	MSD %Rec.	%RPD	Accept. Limit (%) for %Rec.	Accept. Limit(%) for %RPD
Diesel	ND	200	237	119	199	99.5	17	70-130	30

**II. Laboratory Control Sample
Units: mg/kg (ppm)**

Analyte	LCS Result	True Value	%Rec	Accept. Limit (%)
Diesel	227	200	114	80-120

ND: Not Detected (at the specified limit)

1 **PROOF OF SERVICE**

2 I am employed in the County of Los Angeles, State of California, I am over the age of 18
3 and not a party to the within action; my business address is 333 South Grand Avenue, Suite 4200,
4 Los Angeles, California 90071.

5 On September 23, 2013, I served the foregoing document(s) described as:

6 **PETITION FOR APPEAL, RECONSIDERATION AND HEARING ON THE LOS
7 ANGELES REGIONAL QUALITY CONTROL BOARD ORDER NO. R4-2013-0105;
8 REQUEST FOR INTERIM STAY (23 CCR 2050.5(D))**

9 on the interested parties in this action, at the addresses listed below, as follows:

10 SEE ATTACHED SERVICE LIST

11 For Collection. By placing a true copy (copies) thereof enclosed in a sealed
12 envelope(s), addressed as above, and by placing said sealed envelope(s) for collection and mailing
13 on that date following ordinary business practices. I am "readily familiar" with the business'
14 practice for collection and processing of correspondence for mailing the U.S. Postal Service.
15 Under that practice, it would be deposited with the U.S. Postal Service on that same day with
16 postage thereon fully prepaid at Los Angeles, California, in the ordinary course of business.

17 Overnight Delivery. By placing a true copy(ies) thereof enclosed in a sealed
18 envelope(s) or package(s) as designated by Federal Express, addressed as above, and depositing
19 said envelope(s) or package(s), with delivery fees provided for, in a box regularly maintained by
20 Federal Express at 330 South Hope Street, Wells Fargo Center, Los Angeles, California 90071.

21 Electronic Mail. Via e-mail to the address shown above.

22 Via Facsimile. By transmitting a true copy(ies) thereof to each of the designated
23 counsel on the service list to their facsimile numbers as listed below.

24 Personal Delivery. I caused to be served by messenger for personal delivery that
25 same day the foregoing documents in a sealed envelope to the above persons at the addresses listed
26 above.

27 State. I declare under penalty of perjury under the laws of the State of California
28 that the foregoing is true and correct.

Executed on September 23 2013, at Los Angeles, California.

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25 LYNN EVANOVICH
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SERVICE LIST

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SERVICE LIST

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