


SOIL AND GROUNDWATER CONTAMINATION
ASSESSMENT, PHASE 2
98TH AND EDES AVENUES
OAKLAND, CALIFORNIA
SCI 272.016

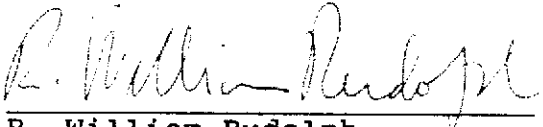
April 10, 1990

Prepared for:

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By:


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April 10, 1990



I INTRODUCTION

This report records results of our Phase 2 soil and groundwater contamination assessment of the 98th and Edes Avenues site in Oakland, California. The site is located at the northeast corner of the intersection of 98th and Edes Avenues, as shown on the Site Plan, Plate 1. We previously performed a preliminary soil contamination assessment of the site, and presented the results in our report dated July 17, 1989.

The City of Oakland is currently widening 98th Avenue. In April 1989, workers encountered contaminated soil while excavating a water line trench at the site. Analytical tests of two soil samples from the trench were reported to have detected up to 350 parts per million (ppm) of total petroleum hydrocarbons (TPH). The source of contamination was unknown at this time.

Subsequent research indicated that 670-98th Avenue was formerly occupied by a Union 76 gasoline service station from about 1947 through 1983. The service station had underground storage tanks in at least 3 separate locations, as shown on the Site Plan. The tanks reportedly stored gasoline and waste oil. The service station and tanks were removed in 1983.

In addition, 692-98th Avenue was formerly occupied by a Richfield service station from about 1949 through 1963. We understand that four, 1000-gallon underground storage tanks were removed from the site in 1970. The former location of these

underground storage tanks is unknown. We anticipate that the tanks stored gasoline; however, it is possible that at least one of the tanks stored diesel or waste oil.

During our preliminary assessment, we obtained soil samples from 14 test borings on the site. Analytical tests indicated that they contained total volatile hydrocarbons (TVH), total extractable hydrocarbons (TEH), total oil and grease (TOG), and benzene, toluene, xylenes and ethylbenzene (BTXE).

In our July 17, 1989 report, we recommended that the most significantly contaminated soil at the site be excavated, treated (if practical) and properly disposed. We judged that it would be impractical to remove all of the contaminated soil and that an acceptable clean-up level should be negotiated with the Alameda County Health Care Services Agency (ACHCSA) and San Francisco Bay Regional Water Quality Control Board (RWQCB).

We understand that the current policy of the ACHCSA and RWQCB is to allow soil with TPH (which includes TVH, TEH and TOG) concentrations between 100 and 1000 ppm to remain in-place if "sufficient evidence is provided which indicates no adverse effects of groundwater will occur". However, the RWQCB and ACHCSA strongly recommend clean up levels of 100 ppm or less. Consequently, it was necessary to develop information regarding: (1) the depth, gradient, flow direction of groundwater, (2) contaminant concentrations in the groundwater, and (3) the extent of soil containing TPH concentrations greater than 100 ppm.

The purpose of this Phase 2 study, as outlined in our proposal dated January 16, 1990, was to evaluate subsurface and groundwater conditions, in order to develop conclusions and recommendations regarding:

1. Subsurface conditions,
2. Groundwater gradient and flow direction,
3. The presence of TPH and BTXE in the samples tested,
4. The estimated extent of soil with TPH concentrations greater than 100 ppm at the site,
5. The significance of contaminant levels with respect to state and local regulatory criteria, and
6. The scope of future investigations/monitoring, if necessary.

II FIELD EXPLORATION

Prior to field exploration, a permit to install six groundwater monitoring wells was obtained from the Alameda County Flood Control and Water Conservation District, Zone 7.

On February 7 through 9, ¹⁹⁹⁰ 1989, eleven test borings were drilled at widely spaced locations at the site, as shown on the Site Plan. The groundwater monitoring well locations were chosen such that wells were located both up- and downgradient from the known former tank sites. The six deeper test borings extended to depths of 20 to 29 feet. The five shallower test borings were 11 to 15 feet deep. Upon completion of drilling, groundwater monitoring wells were installed in the deeper boreholes, in

accordance with requirements of the RWQCB. The shallower boreholes were backfilled with cement/bentonite grout using tremie methods.

The boreholes were drilled using truck-mounted, 8-inch-diameter, hollow-stem auger equipment. The drilling and sampling equipment was steam-cleaned prior to each use. Soil cuttings generated during drilling were encapsulated in polyethylene sheets, for later disposal by others.

Our geologist/engineer observed drilling operations and prepared logs of the soils encountered. The Logs of Test Borings are presented on Plates 2 through 19. The boring logs from our previous investigation are included, for completeness. The soils are classified in accordance with the Unified Soil Classification System described on Plate 20. Undisturbed soil samples were obtained from the test borings at 5-foot intervals. The samples were retained in brass liners. Teflon sheets were placed over the liner ends prior to capping, taping and labelling. The samples were refrigerated until delivery to the analytical laboratory. The samples were accompanied by Chain-of-Custody Records, copies of which are presented in the Appendix.

Schematics of the groundwater monitoring wells, as installed, are shown on the Logs of Test Borings. In summary, the monitoring wells consist of 2-inch-diameter, machine-slotted PVC pipe. All of the pipe is joined by threads (no gluing nor riveting). The wells extend about 15 feet below the groundwater

level measured during drilling. The well heads are provided with locks, and are set below grade in utility boxes.

The wells were developed by bailing, until the water became relatively clear. The bailer was cleaned with Alconox and rinsed with distilled water prior to each use. About 55 gallons of water was removed from each well. The removed water was placed in steel drums for later disposal by others. Dedicated, precleaned, Teflon sampling devices were installed in each well. Groundwater samples were obtained using the dedicated samplers. The water samples were placed in pre-cleaned containers and refrigerated until delivery to the analytical laboratory. The samples were accompanied by Chain-of-Custody Records, copies of which are presented in the Appendix.

III ANALYTICAL TESTING

Soil and groundwater analytical testing was performed by Curtis and Tompkins, Ltd., a State of California Department of Health Services (DHS) certified analytical laboratory for the tests performed. The former underground tanks stored gasoline, waste oil and (possibly) diesel fuel. Accordingly, the analytical tests of soil and groundwater included:

- total extractable hydrocarbons*
1. TVH, sample preparation and analysis using EPA Methods 5030 (purge and trap) and 8015 modified (gas chromatograph coupled to a flame ionization detector),
 - total extractable hydrocarbons*
2. TEH, sample preparation and analysis using EPA Methods 3550 (sonication) and 8015 modified,

3. TOG, sample preparation and analysis using EPA Method 3550 (solvent extraction) and SMWW M503E (gravimetric determination), and
4. Purgeable aromatics (including BTXE), sample preparation and analysis using EPA Methods 5030 (purge and trap) and 8020 (gas chromatograph coupled to a photo-ionization detector).

The site vicinity is occupied by a number of industrial facilities, which may involve the use of solvents. In addition, solvents are sometimes stored in waste oil tanks. Accordingly, the analytical tests on groundwater samples also included:

1. Purgeable halocarbons, sample preparation and analysis using EPA Methods 5030 and 8010 (gas chromatograph and electrolytic conductivity detector).

The results of analytical tests for fuel constituents in soil and groundwater samples are summarized in Tables 1 and 2. The results of analytical tests for purgeable halocarbons in the groundwater samples are summarized in Table 3.

Table 1. Summary of Analytical Tests for Fuel Constituents in Soil

Sample	TVH (ppm) ²	TEH ¹ (ppm)	TOG (ppm)	Benzene (ppm)	Toluene (ppm)	Total Xylenes (ppm)	Ethyl- Benzene (ppm)
MW1 @ 8'	ND ³	-- ⁴	--	0.329	0.007	0.130	0.070
MW1 @ 10.5'	ND	732	--	1.690	12.8	48.3	9.47
MW1 @ 12'	ND	--	--	0.072	0.004	0.002	0.006
MW2 @ 6'	ND	--	--	ND	ND	ND	ND
MW2 @ 9'	ND	293 ⁵	278	ND	0.355	3.98	0.81
MW2 @ 12'	ND	--	--	ND	ND	3.74	0.74
MW3 @ 6'	ND	--	--	ND	ND	ND	ND
MW3 @ 9'	14.4	352	840	ND	ND	10.2	1.99
MW4 @ 4.5'	ND	--	--	ND	ND	ND	ND
MW4 @ 10.5'	ND	ND	ND	ND	ND	ND	ND
MW4 @ 13.5'	ND	--	--	ND	ND	ND	ND
MW5 @ 9'	ND	ND	--	ND	ND	ND	ND
MW5 @ 11'	ND	--	--	ND	0.003	ND	ND
1 @ 7'	ND	ND	60	ND ⁶	ND ⁶	ND ⁶	ND ⁶
1 @ 10'	1,100	--	--	8.1	2.6	120	31
1 @ 13.5'	ND	--	--	0.025	0.015	0.230	0.052
2 @ 5'	280	--	--	3.1	17	72	12
2 @ 9'	1,100	--	--	16	31	130	39
2 @ 11'	13,000	--	--	--	--	--	--
3 @ 4'	20	--	--	0.39	0.90	1.7	0.33
3 @ 7'	ND	--	--	--	--	--	--
3 @ 10'	260	--	--	1.7	6.2	26	3.1
4 @ 3'	14	--	--	0.83	1.1	3.6	0.71
4 @ 9'	150	--	--	4.7	5.9	4.9	6.8
5 @ 7'	130	--	--	4.7	17	58	13
5 @ 10'	930	--	--	--	--	--	--
5 @ 12'	2,600	--	--	11	32	90	20
6 @ 6'	ND	--	--	ND	ND	ND	ND
6 @ 9'	45	ND	--	1.1	1.2	16	2.2
7 @ 3'	45	--	--	3.7	6.0	14	2.6
7 @ 9'	200	--	--	5.2	8.3	16	2.9
8 @ 7'	ND	--	--	ND	0.018	ND	ND
8 @ 10'	120	--	--	15	0.27	--	4.7
9 @ 8'	ND	--	--	0.017	ND	ND	ND
9 @ 11'	100	--	--	0.50	0.32	7.3	2.4

Sample	TVH (ppm) ²	TEH ¹ (ppm)	TOG (ppm)	Benzene (ppm)	Toluene (ppm)	Total Xylenes (ppm)	Ethyl- Benzene (ppm)
10 @ 2'	ND	--	--	ND	0.048	0.047	0.012
10 @ 8'	ND	--	--	ND	0.12	ND	ND
11 @ 3'	16	--	--	0.94	1.9	2.5	0.48
11 @ 8'	150	--	--	3.3	6.3	15	3.4
12 @ 4'	ND	--	--	ND	0.046	ND	ND
12 @ 8'	440	ND	--	--	--	--	--
12 @ 10'	310	--	--	1.5	2.2	13	2.9
13 @ 8'	9,600	67	ND	23 ⁶	270 ⁶	1,000 ⁶	190 ⁶
13 @ 11'	25,000	--	--	--	--	--	--
13 @ 13'	28	--	--	--	--	--	--
14 @ 12.5'	730	--	--	--	--	--	--
15 @ 6'	ND	--	--	ND	0.003	0.006	0.004
15 @ 9.5'	0.737	16	--	0.75	8.32	49.0	9.25
15 @ 10.5'	56.6	1540	--	39.1	260	519	96.2
16 @ 4'	ND	--	--	ND	0.079	0.005	ND
16 @ 7'	0.641	62	--	0.4	2.13	8.06	1.43
16 @ 11.5'	10.2	5650	--	13.1	81.9	146	25.3
17 @ 8.5'	ND	--	--	ND	0.007	ND	ND
17 @ 10'	ND	ND	--	ND	0.037	0.444	0.108
17 @ 11.5'	ND	--	--	ND	0.007	0.135	0.038
18 @ 8'	ND	--	--	ND	0.008	0.012	0.003
18 @ 9.5'	0.766	138	ND	0.333	1.39	11.5	2.63
18 @ 11.5'	0.703	--	--	0.122	0.236	1.53	0.552
19 @ 10'	ND	--	--	ND	0.007	ND	ND
20 @ 9'	ND	--	--	ND	0.007	0.011	0.003
21 @ 7.5'	ND	--	--	ND	0.005	0.016	0.007
21 @ 9.5'	ND	16	ND	ND	0.072	0.970	0.280
21 @ 11.5'	0.754	20	--	ND	0.860	2.73	0.73
21 @ 13'	ND	--	--	ND	0.017	0.07	0.024

¹ Gasoline range unless otherwise noted

² Parts per million (mg/kg)

³ None detected, see test data sheets in Appendix for detection limits

⁴ Not tested for the material listed

⁵ Gasoline range: 246 ppm; motor oil range: 47 ppm

⁶ Analytically tested using EPA 8240, all others using EPA 8020 unless noted otherwise

Table 2.
Summary of Analytical Tests for Fuel Constituents in Groundwater

PPB

Sample	TVH (ppb) ²	TEH ¹ (ppb)	TOG (ppb)	Benzene (ppb)	Toluene (ppb)	Total Xylenes (ppb)	Ethyl- Benzene (ppb)
MW1	55.1	100	ND ³	60.8	11.9	19.9	ND
MW2	35.1	100	ND	ND	ND	4.0	1.3
MW3	ND	100	ND	ND	ND	2.9	ND
MW4	ND	ND	ND	ND	ND	ND	ND
MW5	ND	ND	ND	ND	ND	ND	ND
18	134,000	17,000	120,000	3,730	8,920	22,500	5,430

¹ Gasoline range

² Parts per billion (ug/L)

³ None detected, see test data sheets in Appendix for detection limits

Table 3. Summary of Analytical Tests for Purgeable Halocarbons

Sample	1,1-DCA (ppb) ¹	1,1-DCE (ppb)	Dichloro- methane (ppb)	PCE (ppb)	1,1,1-TCA (ppb)	TCE (ppb)	Other (ppb)
Water:							
MW1	ND ²	ND	9.0	2.4	5.1	11.8	ND
MW2	4.9	7.1	7.9	8.5	11.6	25.1	ND
MW3	ND	5.7	69.2	1.6	17.1	21.7	ND
MW4	ND	ND	15.3	67.4	1.8	2.4	ND
MW5	ND	ND	ND	1.4	1.3	1.0	ND
18 ³	ND	ND	ND	ND	ND	ND	ND
Soil:							
MW2@9'	ND	ND	ND	ND	ND	ND	ND

¹ Parts per billion (ug/kg or ug/L)

² None detected, see test data sheets in Appendix for detection limits

³ High detection limit due to high TVH level

IV SITE CONDITIONS

A. Geology

The site is located on a broad alluvial plain between the Berkeley Hills to the east, and San Leandro Bay to the west. The site is relatively level, situated at an elevation of approximately 20 feet (MSL Datum). San Leandro Creek is located about 4,000 feet to the south. Our main source of information regarding the site geology was "Geohydrology and Groundwater-Quality Overview, of the East Bay Plain Area, Alameda County, California," dated June 1988, by the Alameda County Flood Control and Water Conservation District, Report 205J.

The site is underlain by successively deeper layers of fluvial deposits, younger alluvium, older alluvium and bedrock. The fluvial deposits extend to depths of up to about 15 feet. They were deposited along steams and flood plains and consist of fine grained sands, silts and clayey silts with thin beds of coarse sand. They are generally finer grained than the younger alluvium beneath. The younger alluvium layer is up to about 50 feet thick. It is a typical alluvial fan deposit and consists mostly of clay and silt. The older alluvium layer is up to about 900 feet thick in the area. It is derived of sediments from the hills to the east, and represents successive coalescing alluvial fans. It consists of a heterogeneous mixture of clay, silt, sand and gravel.

B. Site Conditions

For discussion purposes, we will assume that 98th Avenue borders the west side of the site. The relatively level site is bordered by 98th and Edes Avenues to the west and south, vacant land to the east, and a construction equipment rental company storage yard to the north. Located across 98th Avenue from the site are one-story structures housing a liquor store, pizza parlor and grocery store. Vacant land is located across Edes Avenue.

Due to recent construction operations associated with the widening of 98th Avenue, clayey native soils are exposed over much of the ground surface. Sand backfill is evident where underground tanks and fuel lines previously existed at the former Union 76 station site. An underground water line, including at least 2 laterals, and an underground storm drain lateral, have recently been constructed across the site. A joint trench has been constructed, that terminates at the north and south sides of the site.

C. Subsurface Conditions

Our interpretation of subsurface conditions at the site, based upon data from the test borings, is presented on Plate 21, Cross-Sections. Subsurface conditions at the site consist of successively deeper layers of silty clays (at the ground surface), clayey sands and gravels, and silty and sandy clays. In areas where previous underground tanks and fuel lines were located, the excavations have been backfilled with sand. The surface layer of

silty clay extends to depths of about 8 to 15 feet. The clayey sands and gravels beneath extend to depths of 22 to 24 feet, except near well MW-2, where they extend to the depths drilled (30 feet). The silty and sandy clays beneath the clayey sands and gravels extend to depths of 25 feet near well MW-1 (where they are underlain by clayey sand) and to the depths drilled elsewhere. This suggests that this silty and sandy clay may be a relatively thin layer within a larger clayey sand and gravel layer.

Groundwater was encountered at depths of about 8 to 10 feet in the monitoring wells. Groundwater levels are more thoroughly discussed in the subsequent Groundwater Level Measurements section of this report. We did not observe free product, nor a sheen, on the groundwater surface in the monitoring wells.

Significant organic vapors were measured, using an organic vapor meter (OVM), in soils from all of the test borings except MW-4, MW-5, 19 and 20. OVM readings are shown on the Logs of Test Borings. The highest readings were generally recorded in soils situated just above the groundwater level.

V GROUNDWATER LEVEL MEASUREMENTS

A level survey, using an assumed elevation reference, was performed to determine the top of casing (TOC) elevation of each of the monitoring wells. The depth to groundwater, below the top of each casing, was periodically measured using a well sounder. The direction and gradient of groundwater flow was determined, based upon this data. The flow direction and contours for the March 6, 1990 reading are shown on the Site Plan. The results of the readings to date are summarized in Table 4.

Table 4. Summary of Groundwater Data

Date	MW-1		MW-2		MW-3	
	TOC Elev. 99.40 ft.		TOC Elev. 99.72 ft.		TOC Elev. 99.74 ft.	
	Depth (ft.)	Elev. (ft.) ¹	Depth (ft.)	Elev. (ft.)	Depth (ft.)	Elev. (ft.)
3/1/90	8.95	90.45	8.85	90.87	9.17	90.57
3/6/90	8.55	90.85	8.46	91.26	8.78	90.96
3/23/90	9.17	90.23	9.02	90.70	9.35	90.39

Date	MW-4		MW-5		18	
	TOC Elev. 100.93 ft.		TOC Elev. 100.57 ft.		TOC Elev. 99.17 ft.	
	Depth (ft.)	Elev. (ft.) ¹	Depth (ft.)	Elev. (ft.)	Depth (ft.)	Elev. (ft.)
3/1/90	9.98	90.95	9.61	90.96	8.53	90.64
3/6/90	9.60	91.33	9.23	91.34	8.11	91.06
3/23/90	10.20	90.73	9.80	90.77	8.73	90.44

¹ Elevation reference: Top of curb at fire hydrant on Edes Avenue (see Site Plan), is assumed to be at elevation 100.00 feet

VI DISCUSSION AND CONCLUSIONS

A. Soil Contamination

Soil samples from the site contained detectable concentrations of TPH and purgeable aromatics (BTXE). The predominant contaminant appears to be old gasoline. This conclusion is based upon: (1) the relatively small amounts of benzene measured in the soil samples, compared to those of the less volatile toluene, xylenes and ethylbenzene, and (2) higher concentrations of gasoline being measured as TEH, than as TVH (which measures the more volatile constituents of gasoline). The gasoline appears to be from at least three sources: (1) the former Union 76 service station tank site next to Edes Avenue (near Boring 13), (2) the former Union 76 station tank site about 80 feet north of Edes Avenue (near Boring 1), and (3) the former Richfield fuel station opposite Walter Avenue (near Well MW-2).

The approximate lateral extent of soil containing TPH concentrations above 100 ppm is shown on the Site Plan. The lateral extent is not well defined in two areas: (1) the west side of 98th Avenue, downgradient from the former tank sites, and (2) opposite Walter Avenue, upgradient from the former Richfield fuel station. We judge that the soil contamination downgradient from the source is likely due to gasoline floating on the groundwater surface.

The vertical extent of soil contamination is shown on the Cross-Sections. Most of the soil contamination appears to be located in a 2- to 4-foot thick layer near the groundwater surface. However, thicker zones of contamination appear to exist within and near to the former tank backfills.

B. Groundwater Contamination

Groundwater samples from the site contained detectable concentrations of petroleum hydrocarbons (including TVH, TEH and TOG), purgeable aromatics (BTXE) and several purgeable halocarbons. BTXE are soluble constituents of gasoline; the halocarbons detected in the water samples are relatively common solvents. The sum of the hydrocarbon constituents, and the sum of the purgeable halocarbon constituents measured in groundwater from each well, are shown on the Site Plan. No detectable concentrations of TPH were encountered in the wells upgradient of the former contaminant sources. However, TPH was encountered in the downgradient wells. Accordingly, we conclude that the former fuel tanks are the likely sources of fuel hydrocarbon contamination in the area.

Water samples from all of the wells except Well 18, contained low concentrations of purgeable halocarbons. At Well 18, the analytical detection limits were greater than the halocarbon concentrations measured in water samples from the other wells. This was due to relatively high TVH concentrations, which affected detection limits. The waste oil tank at the former Union 76 station is a possible source of solvents

(purgeable halocarbons) in portions of the site. However, purgeable halocarbons are present in groundwater samples from upgradient wells, suggesting that they are more likely associated with an off-premises source.

A summary of the highest concentrations of BTXE and purgeable halocarbons detected in groundwater, and their Title 22 Action Levels or DHS recommended action levels, is presented in Table 5.

Recommendations regarding site remediation will be presented in a subsequent report. We recommend that this report be provided to the ACHCSA and RWQCB at the following addresses:

Mr. Ariu Levi
Alameda County Health Care Services Agency
Hazardous Materials Program
80 Swan Way, Room 200
Oakland, California 94621

Mr. Lester Feldman
California Regional Water Quality Control Board
San Francisco Bay Region
1111 Jackson Street, Room 6040
Oakland, California 94607

where are the wells slotted?

Table 5. Highest BTXE and Purgeable Halocarbon Concentrations Detected in Groundwater

<u>Compound</u>	<u>Highest On-Site Concentration (ppb)¹</u>	<u>Title 22 Action Level (ppb)</u>
Benzene	3,730	1.0
Toluene	8,920	100 ²
Total Xylenes	22,500	1,750
Ethylbenzene	5,430	680
1,1-Dichloroethane (1,1-DCA)	4.9	5.0 ²
1,2-Dichloroethylene (1,1-DCE)	7.1	6.0
Dichloromethane	69.2	40.0 ²
Tetrachloroethylene (PCE)	67.4	5.0 ²
1,1,1-Trichloroethane (1,1,1-TCA)	17.1	200
Trichloroethylene (TCE)	25.1	5.0

¹ Parts per billion (ug/L)

² DHS recommended action level; others are Title 22 Action Levels unless noted otherwise

List of Plates

Plate 1	Site Plan
Plates 2 thru 6	Logs of Test Borings MW-1 thru MW-5
Plates 7 thru 19	Logs of Test Borings 1-21
Plate 20	Unified Soil Classification System
Plate 21	Cross-Sections

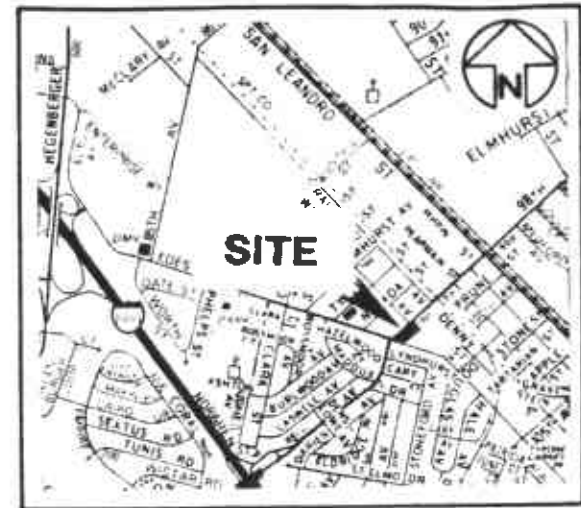
Appendix

Analytical Test Reports
Chain-of-Custody Records

Distribution

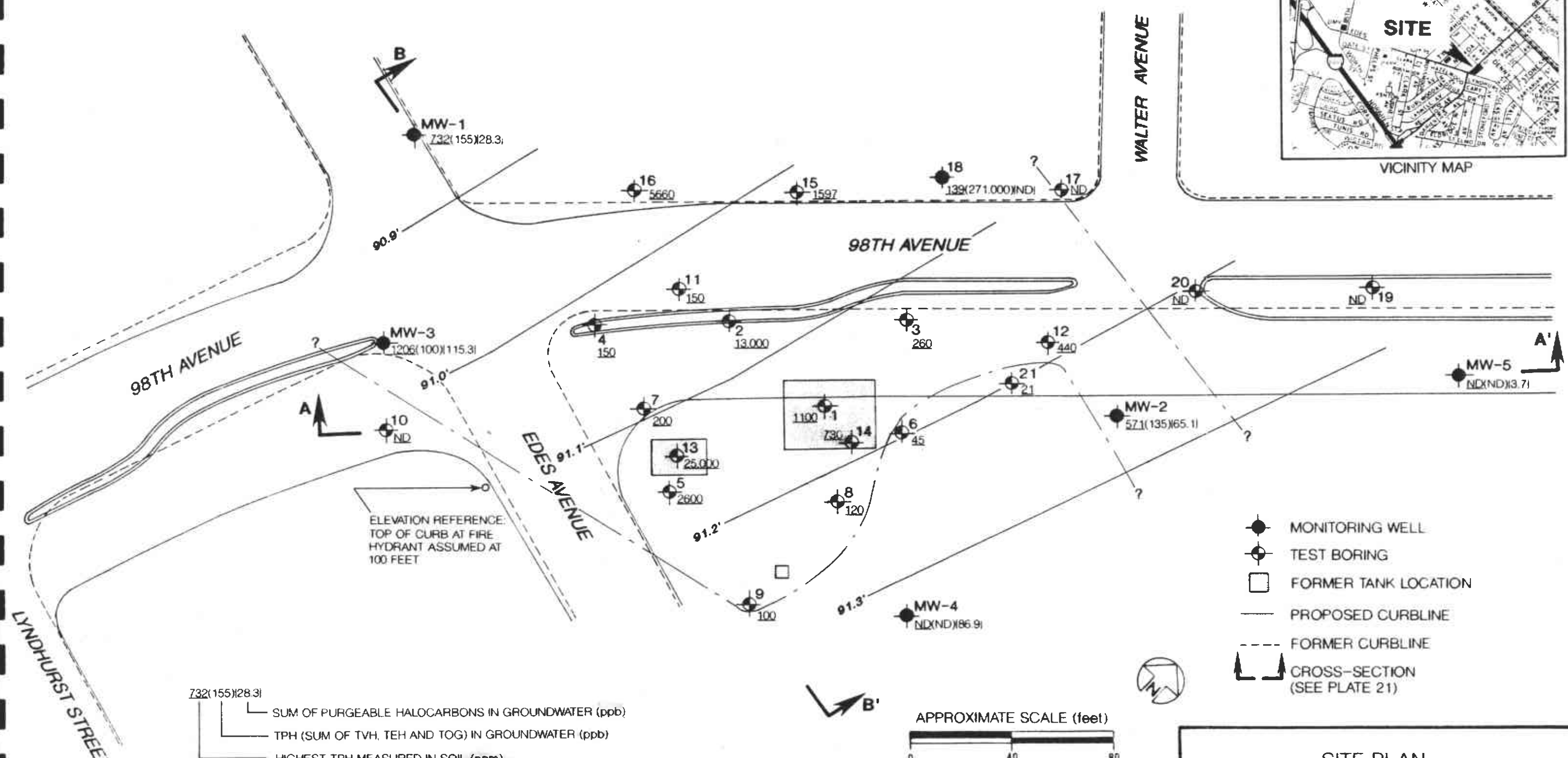
6 copies: Mr. James Abron
 Construction
 City of Oakland
 7101 Edgewater Drive
 Oakland, California 94621

WKW:RWR:JPB:mb1



SITE

VICINITY MAP



ELEVATION REFERENCE:
TOP OF CURB AT FIRE
HYDRANT ASSUMED AT
100 FEET

- MONITORING WELL
- TEST BORING
- FORMER TANK LOCATION
- PROPOSED CURBLINE
- FORMER CURBLINE
- CROSS-SECTION (SEE PLATE 21)

- 732(155)28.3
SUM OF PURGEABLE HALOCARBONS IN GROUNDWATER (ppb)
- TPH (SUM OF TVH, TEH AND TOG) IN GROUNDWATER (ppb)
- HIGHEST TPH MEASURED IN SOIL (ppm)
- 91.1' — GROUNDWATER CONTOURS ON MARCH 6, 1990 (BASED ON AN ASSUMED ELEVATION REFERENCE)
- ?-?-? APPROXIMATE LIMIT OF SOILS WITH TPH CONCENTRATION GREATER THAN 100ppm.



SITE PLAN			PLATE 1
98TH & EDES - PHASE 2 - OAKLAND, CA			
JOB NUMBER 272.016	DATE 2/14/90	APPROVED 	

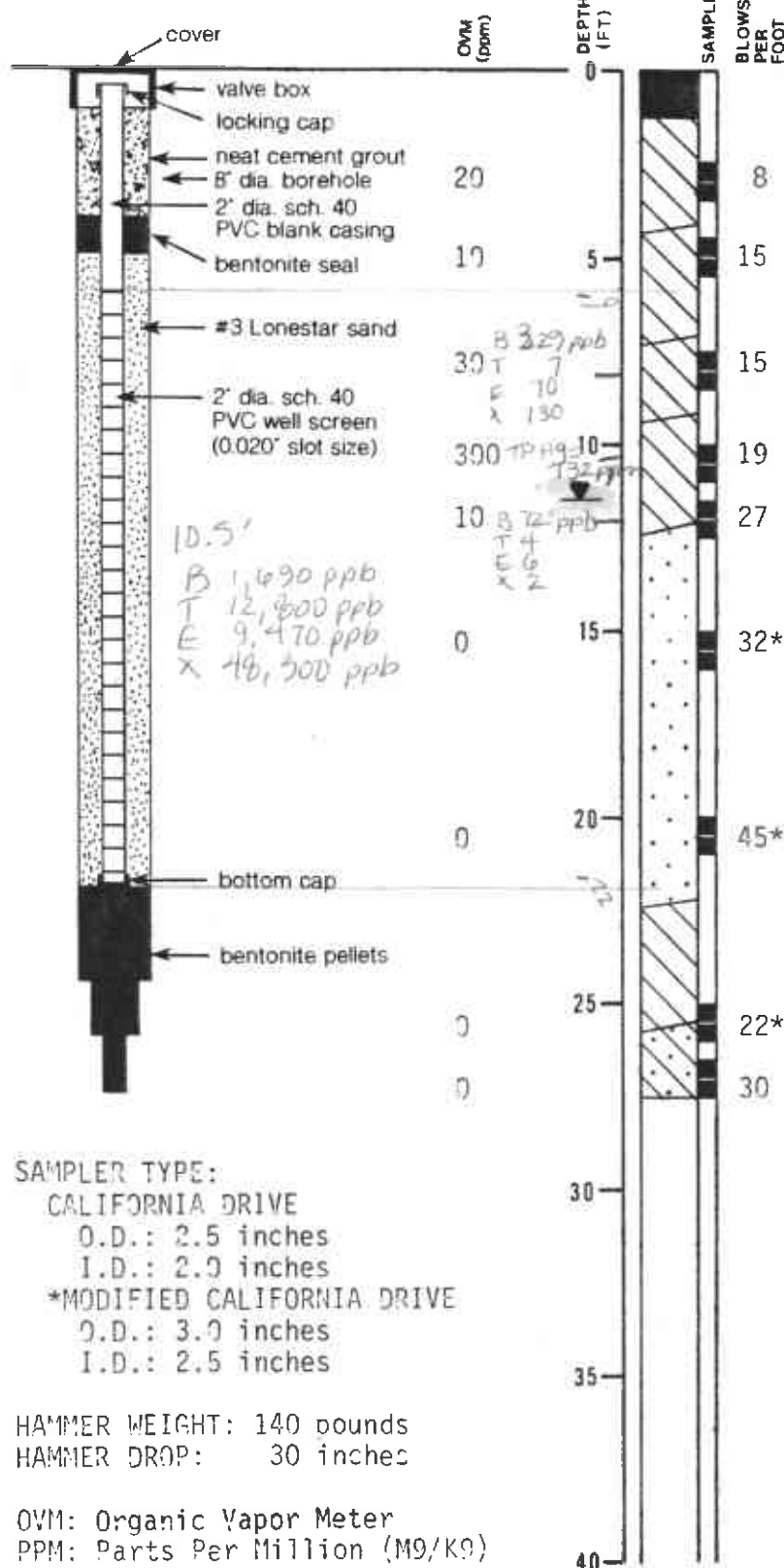
Subsurface Consultants

LOG OF TEST BORING MW-1

EQUIPMENT 8" Hollow Stem Auger

DATE DRILLED 2/7/90

ELEVATION 99.40 feet**



ASPHALTIC CONCRETE - 15" thick

DARK GRAY SILTY CLAY (CL)
medium stiff, moist, with coarse grained sand

MOTTLED GRAY AND OLIVE-GREEN SILTY CLAY (CL)
medium stiff, moist, with coarse grained sand and gravel

MOTTLED GRAY AND BROWN SILTY CLAY (CL)
medium stiff, moist

GRAY-GREEN SANDY CLAY (CL)
medium stiff, moist, medium grained sand

GROUNDWATER LEVEL DURING DRILLING

GRAY-GREEN GRAVELLY SAND (SP)
medium dense, wet, medium to coarse grained sand, gravel to 3/4 inch, with clay

MOTTLED GRAY AND BROWN CLAY (CL)
medium stiff, moist, with coarse grained sand and gravel

BROWN CLAYEY SAND (SC)
medium dense, wet, medium to coarse grained sand, with gravel to 1/2 inch

SAMPLER TYPE:
CALIFORNIA DRIVE
O.D.: 2.5 inches
I.D.: 2.0 inches
*MODIFIED CALIFORNIA DRIVE
O.D.: 3.0 inches
I.D.: 2.5 inches

HAMMER WEIGHT: 140 pounds
HAMMER DROP: 30 inches

OVM: Organic Vapor Meter
PPM: Parts Per Million (M9/K9)

In water:

Dichloromethane - 9.0 ppb

PCE 2.4

TCE 11.8

B 60.8

T 11.9

X 19.9

TPHg = 0.1 ppm

**Elevation reference shown on Site Plan

Subsurface Consultants

98TH & EDES - PHASE 2 - OAKLAND, CA

PLATE

JOB NUMBER
272.016

DATE
2/15/90

APPROVED

William V. Williams

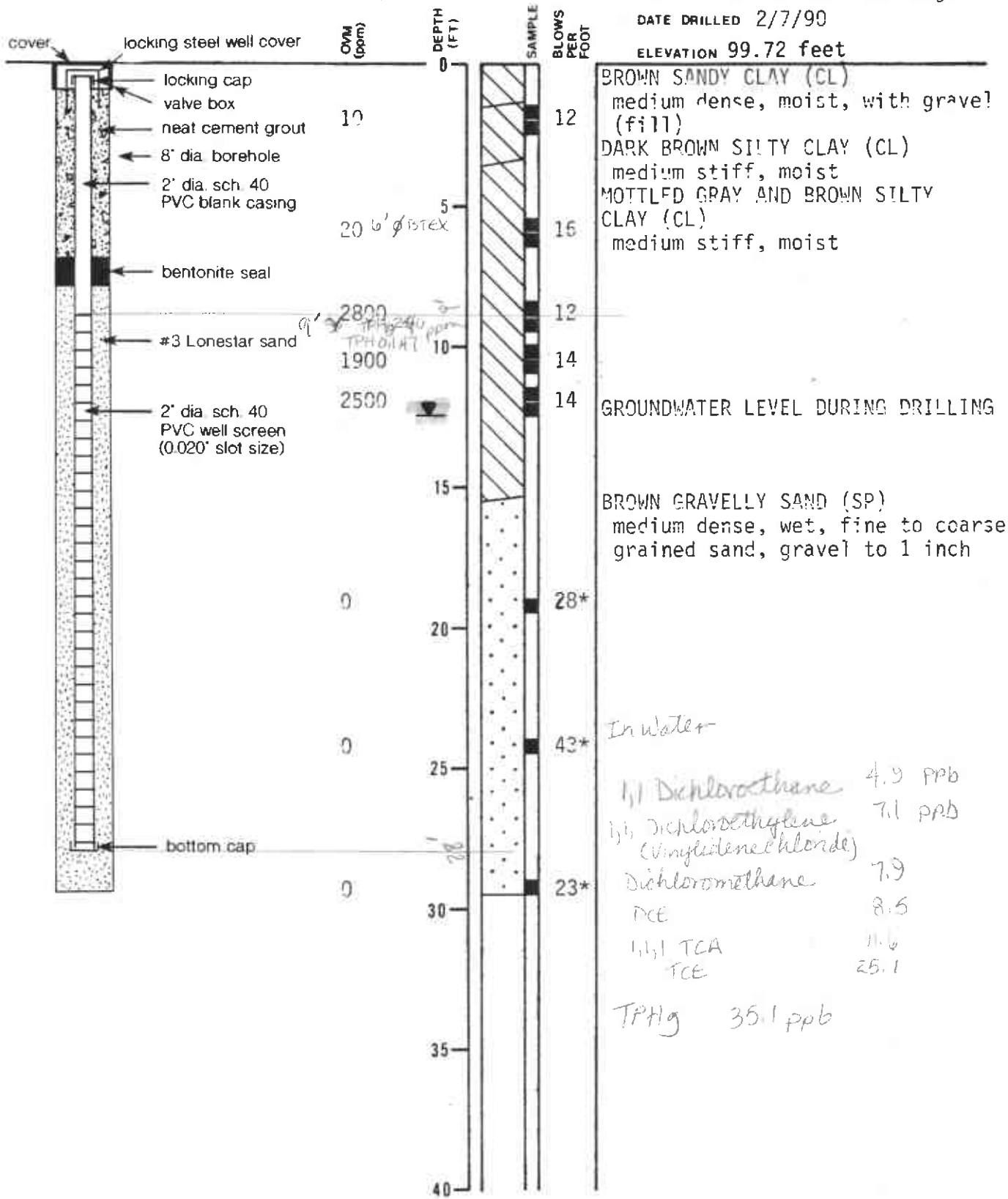
2

LOG OF TEST BORING MW-2

EQUIPMENT 8" Hollow Stem Auger

DATE DRILLED 2/7/90

ELEVATION 99.72 feet



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JOB NUMBER
272.916

DATE
2/15/90

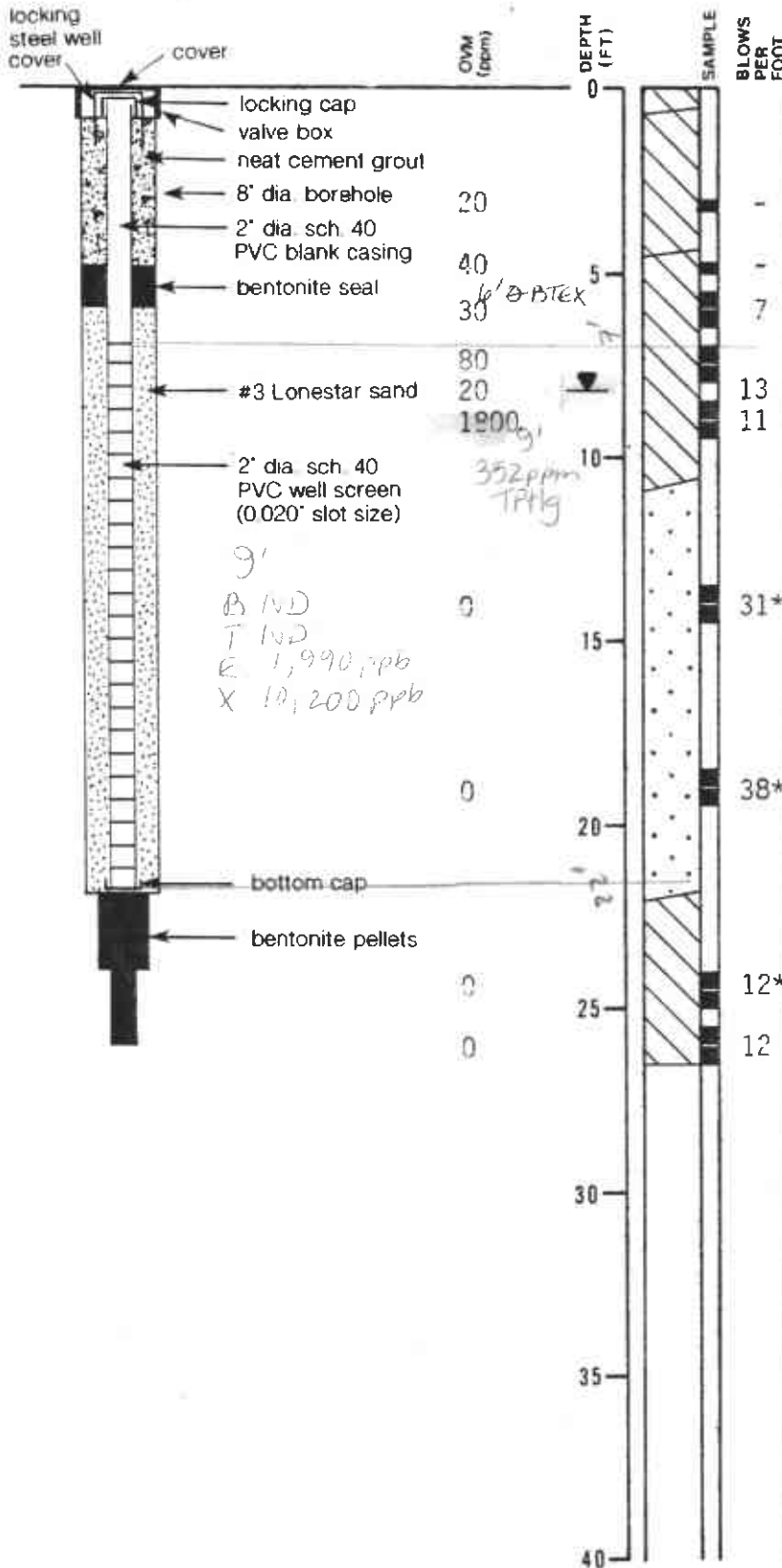
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[Signature]

PLATE

3

LOG OF TEST BORING MW-3

EQUIPMENT 8" Hollow Stem Auger
 DATE DRILLED 2/8/90
 ELEVATION 99.74 feet



DARK BROWN SILTY CLAY (CL)
 medium stiff, moist (fill)
 BROWN SANDY CLAY (CL)
 medium stiff, moist, with gravel (fill)
 with cobbles from 3.5 to 4.5 feet
 GRAY GREEN SANDY CLAY (CL)
 medium stiff, moist, coarse grained sand, with gravel
 GROUNDWATER LEVEL DURING DRILLING
 GRAY-GREEN GRAVELLY SAND (SP)
 dense, wet, medium to coarse grained sand, gravel to 3/4 inch, with clay

BROWN SANDY CLAY (CL)
 medium stiff, moist, coarse grained sand

In Water (L, DCE)
 1,1 Dichloroethylene 5.7 ppb
 Dichloromethane 69.2
 PCE 1.6
 1,1 TCA 17.1
 MRETHA
 TCE 21.7
 TPHg ND

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PLATE

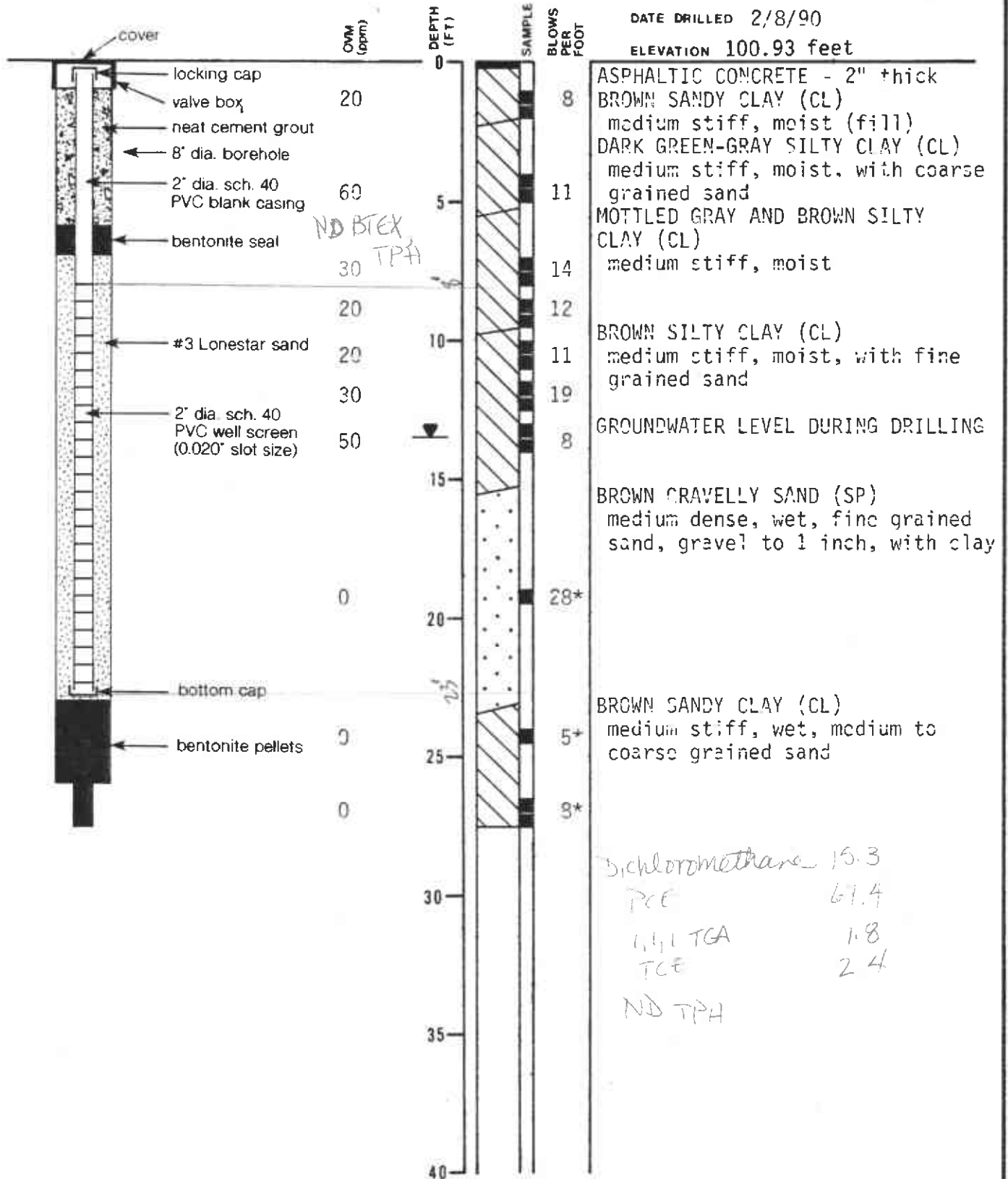
4

LOG OF TEST BORING MW-4

EQUIPMENT 8" Hollow Stem Auger

DATE DRILLED 2/8/90

ELEVATION 100.93 feet



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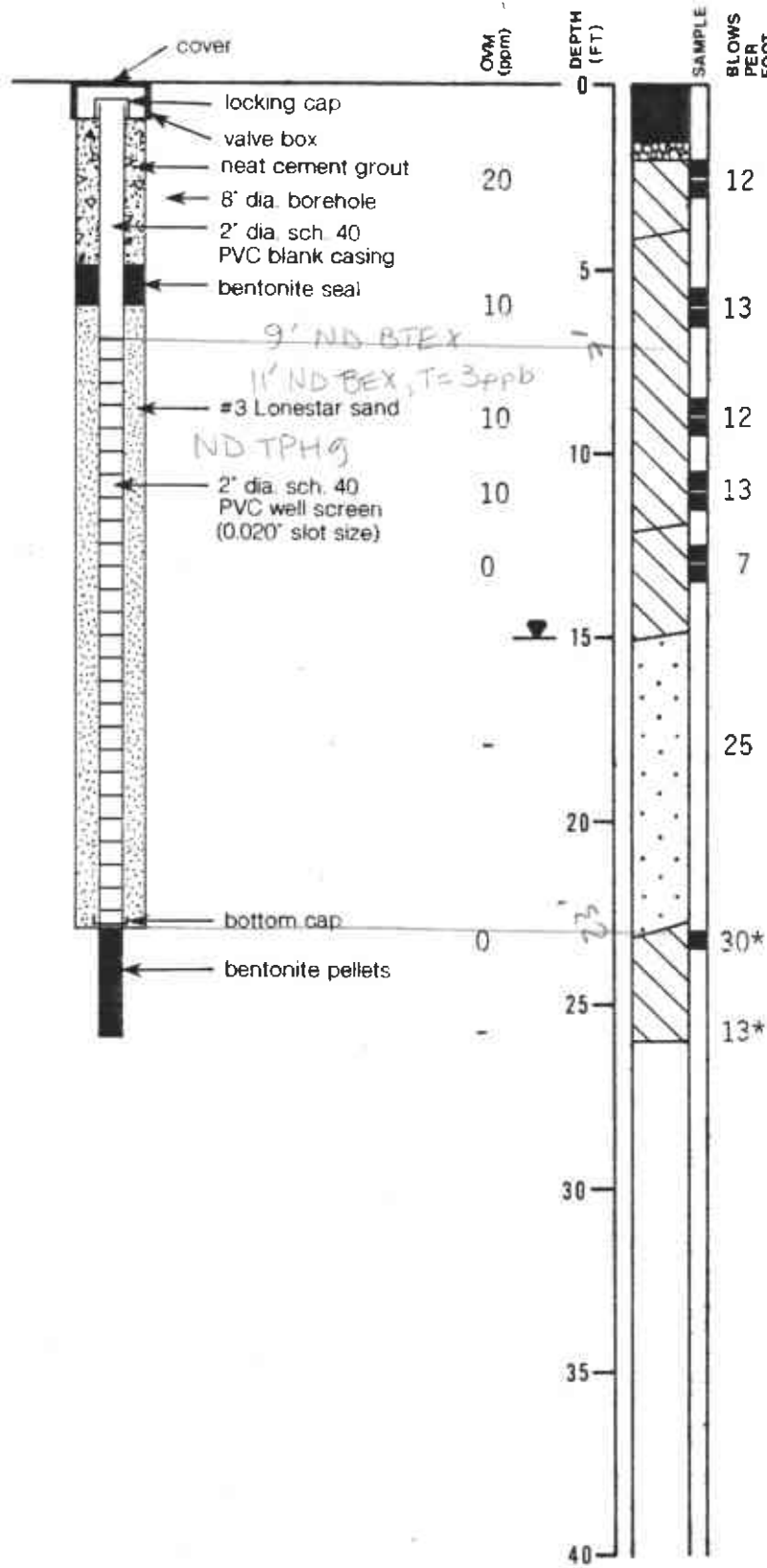
APPROVED
William E. [Signature]

PLATE

5

LOG OF TEST BORING MW-5

EQUIPMENT 8" Hollow Stem Auger
 DATE DRILLED 2/9/90
 ELEVATION 100.57 feet



ASPHALTIC CONCRETE - 18" thick
 BASE ROCK - 6" thick
 DARK GRAY SILTY CLAY (CL)
 medium stiff, moist, with coarse grained sand
 MOTTLED GRAY AND BROWN SILTY CLAY (CL)
 medium stiff, moist
 BROWN SANDY CLAY (CL)
 medium stiff, moist, fine grained sand
 GROUNDWATER LEVEL DURING DRILLING
 BROWN GRAVELLY SAND (SP)
 medium dense, wet, fine to coarse grained sand, gravel to 2 inches (no sample recovered)
 BROWN SANDY CLAY (CL)
 medium stiff, wet, medium to coarse grained sand (no sample recovered)

PCE 1.4
 1,1,1 TCA 1.3
 TCE 1.0
 NDTPH g

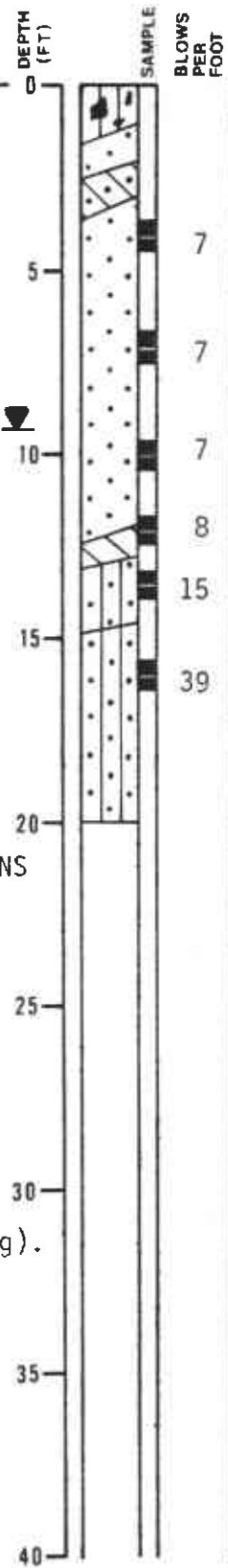
See previous report

LOG OF TEST BORING 1

EQUIPMENT 8" Hollow Stem Auger
 DATE DRILLED 5/25/89
 ELEVATION --

LABORATORY TESTS

TVH	TEH	TOG	VOC	
ND	ND	60	ND	
TVH	B	T	X	E
1100	8.1	2.6	120	31
ND	0.025	0.015	0.23	0.052



GRAY-BROWN SANDY GRAVEL (GM)
 medium dense, moist (fill)
 OLIVE-BROWN SAND (SP)
 medium dense, moist (fill)
 BROWN AND ORANGE CLAYEY SAND (SC)
 medium dense, moist (fill)
 OLIVE-BROWN SAND (SP)
 medium dense, moist (fill)
 dark brown below 6 feet
 GROUNDWATER LEVEL DURING DRILLING
 dark gray below 9½ feet
 DARK GRAY SILTY CLAY (CL)
 medium stiff, wet
 BROWN SILTY SAND (SM)
 medium dense, wet, with gravel
 BROWN GRAVELLY SAND (SM)
 dense, wet, coarse grained

(5 feet of heave in auger)
 BOREHOLE BACKFILLED WITH CEMENT/BENTONITE GROUT

NOTES:

- TEH: TOTAL EXTRACTABLE HYDROCARBONS
- TOG: TOTAL OIL AND GREASE
- VOC: VOLATILE ORGANIC COMPOUNDS
- TVH: TOTAL VOLATILE HYDROCARBONS
- B: BENZENE
- T: TOLUENE
- X: TOTAL XYLENES
- E: ETHYLBENZENE
- ND: NONE DETECTED

See analytical test reports for detection limits. All analytical test results reported in ppm (mg/kg).

SAMPLER TYPE:
 CALIFORNIA DRIVE
 O.D.: 2.5 inches
 I.D.: 2.0 inches

HAMMER WEIGHT: 140 pounds
 HAMMER DROP: 30 inches

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 DATE 6/2/89
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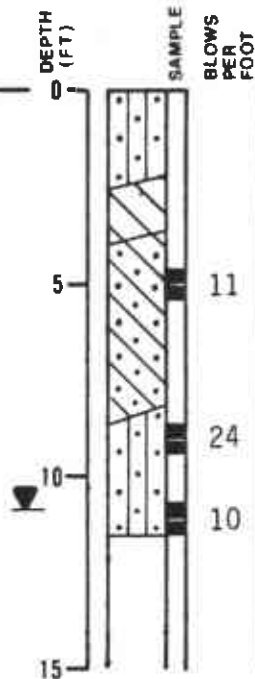
PLATE 7

LOG OF TEST BORING 2

EQUIPMENT 8" Hollow Stem Auger
DATE DRILLED 5/25/89

LABORATORY TESTS

TVH	B	T	X	E
280	3.1	17	72	12
1,100	16	31	130	39
13,000	-	-	-	-



ELEVATION --

DARK BROWN GRAVELLY SAND (SM)
medium dense, moist (fill)

MOTTLED DARK GRAY AND BLACK SILTY CLAY (CL)
medium stiff, moist (fill)

OLIVE-GREEN CLAYEY SAND (SC)
medium dense, moist, with occasional gravel (fill)

GRAY SILTY SAND (SM)
medium dense, moist

GROUNDWATER LEVEL DURING DRILLING

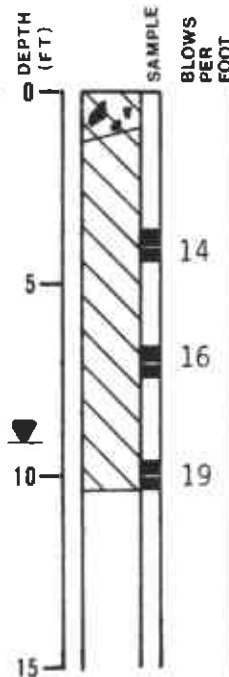
BOREHOLE BACKFILLED WITH CEMENT/BENTONITE GROUT

LOG OF TEST BORING 3

EQUIPMENT 8" Hollow Stem Auger
DATE DRILLED 5/25/89

LABORATORY TESTS

TVH	B	T	X	E
20	0.39	0.90	1.7	0.33
ND	-	-	-	-
260	1.7	6.2	26	3.1



ELEVATION --

BROWN CLAYEY GRAVEL (GC)
medium dense, moist

DARK BROWN SILTY CLAY (CL)
medium stiff, moist

olive-green and gray below 3 feet

GROUNDWATER LEVEL DURING DRILLING

BOREHOLE BACKFILLED WITH CEMENT/BENTONITE GROUT

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PLATE

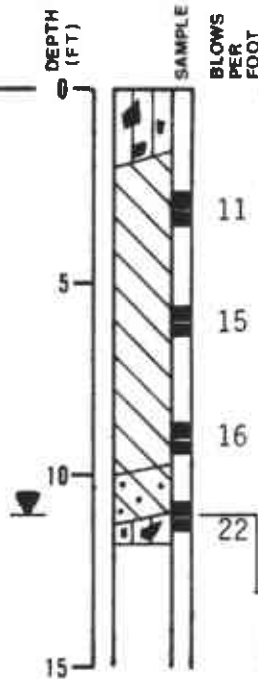
8

LOG OF TEST BORING 4

EQUIPMENT 8" Hollow Stem Auger
 DATE DRILLED 5/25/89

LABORATORY TESTS

TVH	B	T	X	E
14	0.83	1.1	3.6	0.71
150	4.7	5.9	49	6.8



ELEVATION --

BROWN SANDY GRAVEL (GM)
 medium dense, moist (fill)
 DARK BROWN SILTY CLAY (CL)
 medium stiff, moist

mottled brown and gray below
 6 feet

BROWN CLAYEY SAND (SC)
 medium dense, wet
 DARK GRAY SANDY GRAVEL (GM)
 medium dense, wet
 GROUNDWATER LEVEL DURING DRILLING

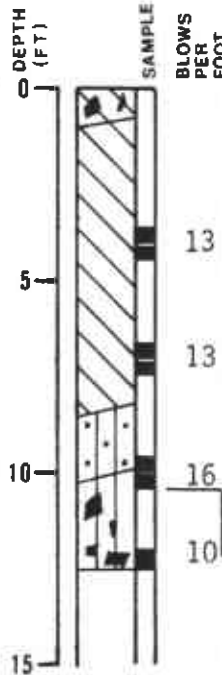
BOREHOLE BACKFILLED WITH
 CEMENT/BENTONITE GROUT

LOG OF TEST BORING 5

EQUIPMENT 8" Hollow Stem Auger
 DATE DRILLED 5/25/89

LABORATORY TESTS

TVH	B	T	X	E
130	4.7	17	58	13
930	11	32	90	20
2,600	-	-	-	-



ELEVATION --

BROWN CLAYEY GRAVEL (GC)
 medium dense, moist (fill)
 DARK BROWN SILTY CLAY (CL)
 medium stiff, moist

brown below 5 feet

OLIVE-GREEN AND BROWN SILTY
 SAND (SM)
 medium dense, moist, with gravel
 GRAY SANDY GRAVEL (GM)
 medium dense, wet
 GROUNDWATER LEVEL DURING DRILLING

BOREHOLE BACKFILLED WITH
 CEMENT/BENTONITE GROUT

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PLATE

9

LOG OF TEST BORING 6

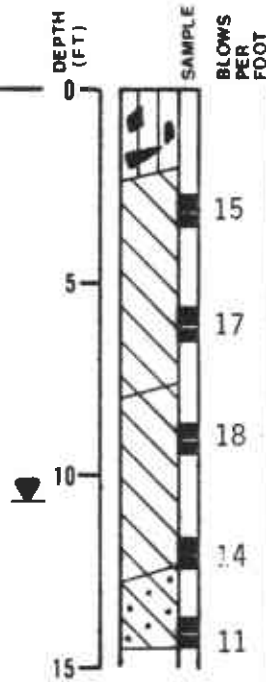
EQUIPMENT 8" Hollow Stem Auger

DATE DRILLED 5/25/89

ELEVATION --

LABORATORY TESTS

TVH	B	T	X	E
ND	ND	ND	ND	ND
45	1.1	1.2	16	2.2
TOG				
ND				



BROWN SANDY GRAVEL (GM)
medium dense, moist (fill)
DARK BROWN SILTY CLAY (CL)
medium stiff, moist, with gravel

MOTTLED GRAY AND BROWN SILTY CLAY (CL)
medium stiff, moist
GROUNDWATER LEVEL DURING DRILLING

BROWN CLAYEY SAND (SC)
medium dense, moist

BOREHOLE BACKFILLED WITH CEMENT/BENTONITE GROUT

LOG OF TEST BORING 7

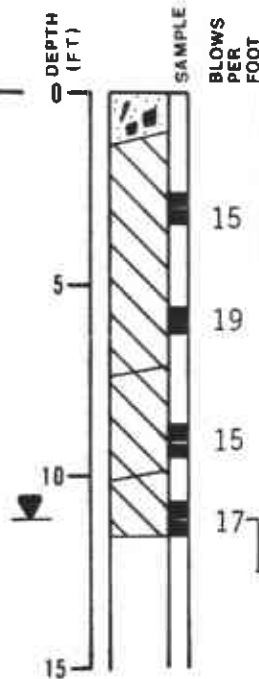
EQUIPMENT 8" Hollow Stem Auger

DATE DRILLED 5/25/89

ELEVATION --

LABORATORY TESTS

TVH	B	T	X	E
45	3.7	6.0	14	2.6
200	5.2	8.3	16	2.9



BROWN SANDY GRAVEL (GP)
medium dense, moist (fill)
DARK BROWN SILTY CLAY (CL)
medium stiff, moist, with gravel

MOTTLED GRAY AND BROWN SILTY CLAY (CL)
medium stiff, moist, with gravel

MOTTLED GRAY AND BROWN SANDY CLAY (CL)
stiff, moist
GROUNDWATER LEVEL DURING DRILLING

BOREHOLE BACKFILLED WITH CEMENT/BENTONITE GROUT

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PLATE
10

LOG OF TEST BORING 8

EQUIPMENT 8" Hollow Stem Auger

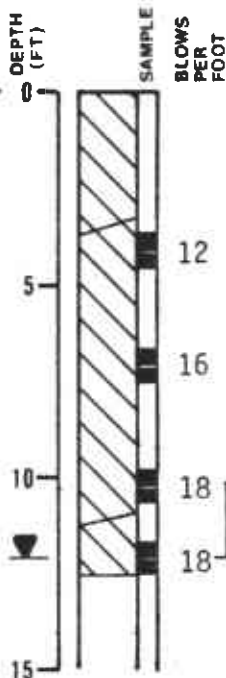
DATE DRILLED 5/26/89

ELEVATION --

LABORATORY TESTS

TVH	B	T	X	E
ND	ND	0.018	ND	ND
120	1.5	0.27	*	4.7

* not determinable



DARK BROWN SANDY CLAY (CL)
medium stiff, moist, with gravel (fill)

DARK BROWN SILTY CLAY (CL)
medium stiff, moist

mottled gray and brown
below 6 feet

GROUNDWATER LEVEL DURING DRILLING

GRAY SANDY CLAY (CL)
stiff, moist

BOREHOLE BACKFILLED WITH
CEMENT/BENTONITE GROUT

LOG OF TEST BORING 9

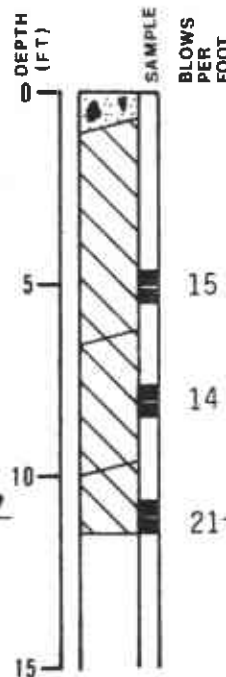
EQUIPMENT 8" Hollow Stem Auger

DATE DRILLED 5/26/89

ELEVATION --

LABORATORY TESTS

TVH	B	T	X	E
ND	0.017	ND	ND	ND
100	0.50	0.32	7.3	2.4



BROWN SANDY GRAVEL (GP)
medium dense, moist (fill)
DARK BROWN SILTY CLAY (CL)
medium stiff, moist, with gravel

BROWN SILTY CLAY (CL)
medium stiff, moist

MOTTLED GRAY AND BROWN
SANDY CLAY (CL)
stiff, moist, with gravel

GROUNDWATER LEVEL DURING DRILLING

BOREHOLE BACKFILLED WITH
CEMENT/BENTONITE GROUT

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PLATE

11

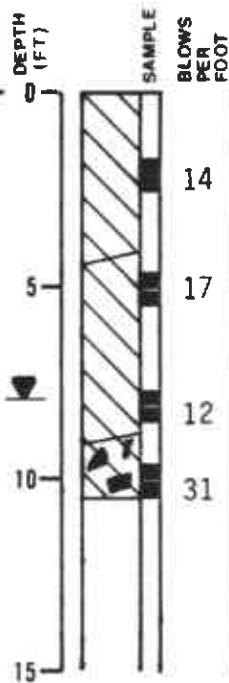
LOG OF TEST BORING 10

EQUIPMENT 8" Hollow Stem Auger
DATE DRILLED 5/26/89

LABORATORY TESTS

TVH	B	T	X	E
ND	ND	0.048	0.047	0.012

ND	ND	0.12	ND	ND
----	----	------	----	----



ELEVATION --

DARK BROWN SILTY CLAY (CL)
medium stiff, moist

BROWN SANDY CLAY (CL)
medium stiff, moist, fine grained sand

GROUNDWATER LEVEL DURING DRILLING

GRAY CLAYEY GRAVEL (GC)
dense, moist

BOREHOLE BACKFILLED WITH CEMENT/BENTONITE GROUT

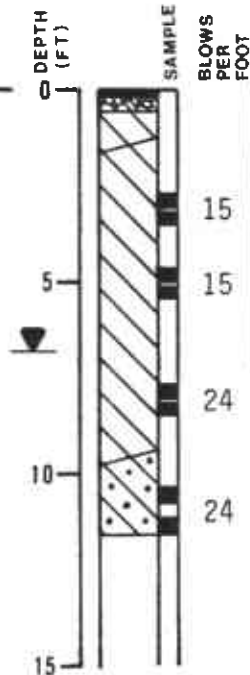
LOG OF TEST BORING 11

EQUIPMENT 8" Hollow Stem Auger
DATE DRILLED 5/26/89

LABORATORY TESTS

TVH	B	T	X	E
16	0.94	1.9	2.5	0.48

150	3.3	6.3	15	3.4
-----	-----	-----	----	-----



ELEVATION --

ASPHALTIC CONCRETE - 2" thick

BASEROCK - 4" thick

BROWN SANDY CLAY (CL)
medium stiff, moist, with gravel (fill)

DARK BROWN SILTY CLAY (CL)
medium stiff, moist, with gravel

GROUNDWATER LEVEL DURING DRILLING
mottled gray and brown below 4½ feet

GRAY CLAYEY SAND (SC)
medium dense, moist, with gravel

BOREHOLE BACKFILLED WITH CEMENT/BENTONITE GROUT

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PLATE

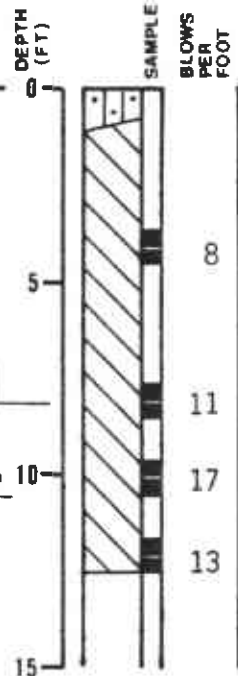
12

LOG OF TEST BORING 12

EQUIPMENT 8" Hollow Stem Auger
 DATE DRILLED 5/26/89

LABORATORY TESTS

<u>TVH</u>	<u>B</u>	<u>T</u>	<u>X</u>	<u>E</u>
ND	ND	0.046	ND	ND
<u>TVH</u>	<u>TEH</u>			
ND	ND			
<u>TVH</u>	<u>B</u>	<u>T</u>	<u>X</u>	<u>E</u>
310	1.5	2.2	13	2.9



ELEVATION --

BROWN GRAVELLY SAND (SM)
 medium dense, moist (fill)
 DARK BROWN SILTY CLAY (CL)
 medium stiff, moist, with gravel

mottled brown and gray below
 6 feet

GROUNDWATER LEVEL DURING DRILLING

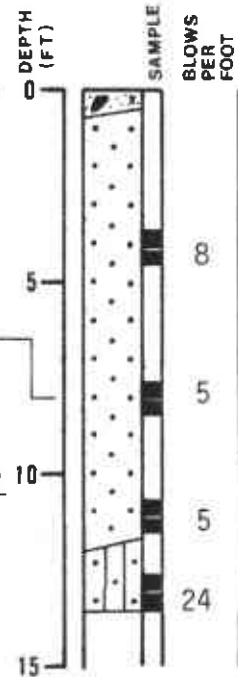
BOREHOLE BACKFILLED WITH
 CEMENT/BENTONITE GROUT

LOG OF TEST BORING 13

EQUIPMENT 8" Hollow Stem Auger
 DATE DRILLED 5/26/89

LABORATORY TESTS

<u>TEH</u>	<u>TOG</u>	<u>VOC</u>		
67	ND	ND*		
<u>TVH</u>	<u>B</u>	<u>T</u>	<u>X</u>	<u>E</u>
9,600	23	270	1,000	190
<u>TVH</u>				
25,000				
<u>TVH</u>				
28				



ELEVATION --

BROWN SANDY GRAVEL (GP)
 medium dense, moist
 GRAY SAND (SP)
 medium dense, moist (fill)

dark gray below 6 feet

GROUNDWATER LEVEL DURING DRILLING

GRAY GRAVELLY SAND (SM)
 medium dense, wet

BOREHOLE BACKFILLED WITH
 CEMENT/BENTONITE GROUT

* other than BTXE

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DATE
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PLATE
13

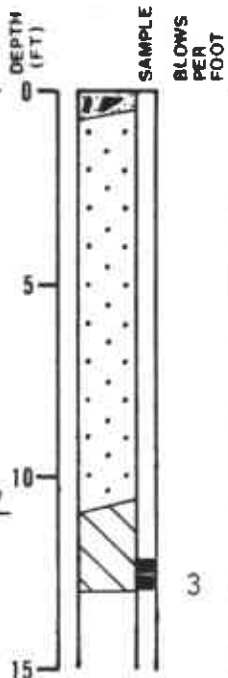
LOG OF TEST BORING 14

EQUIPMENT 8" Hollow Stem Auger

DATE DRILLED 5/26/89

ELEVATION --

LABORATORY TESTS



BROWN SANDY GRAVEL (GP)
 medium dense, moist (fill)
 GRAY-BROWN SAND (SP)
 medium dense, moist (fill)

GROUNDWATER LEVEL DURING DRILLING
 GRAY SANDY CLAY (CL)
 soft, wet

BOREHOLE BACKFILLED WITH
 CEMENT/BENTONITE GROUT

TVH
 730

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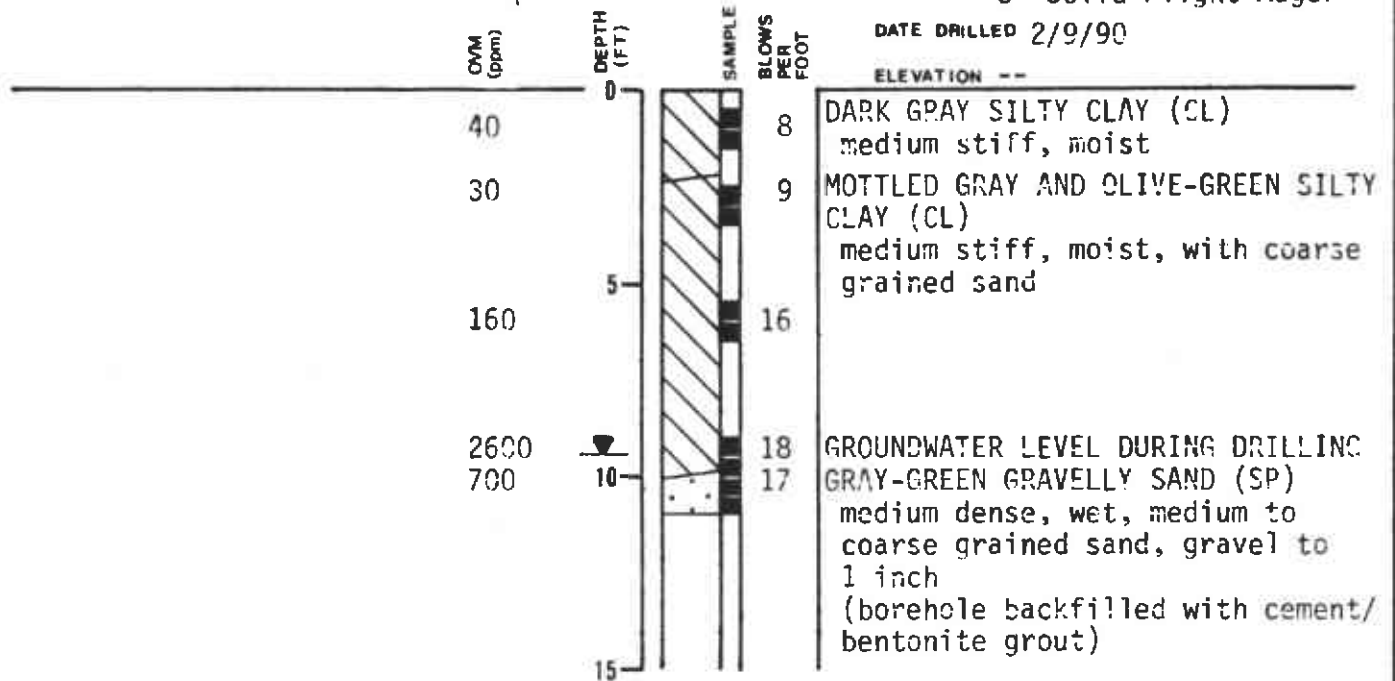
14

LOG OF TEST BORING 15

EQUIPMENT 3" Solid Flight Auger

DATE DRILLED 2/9/90

ELEVATION --

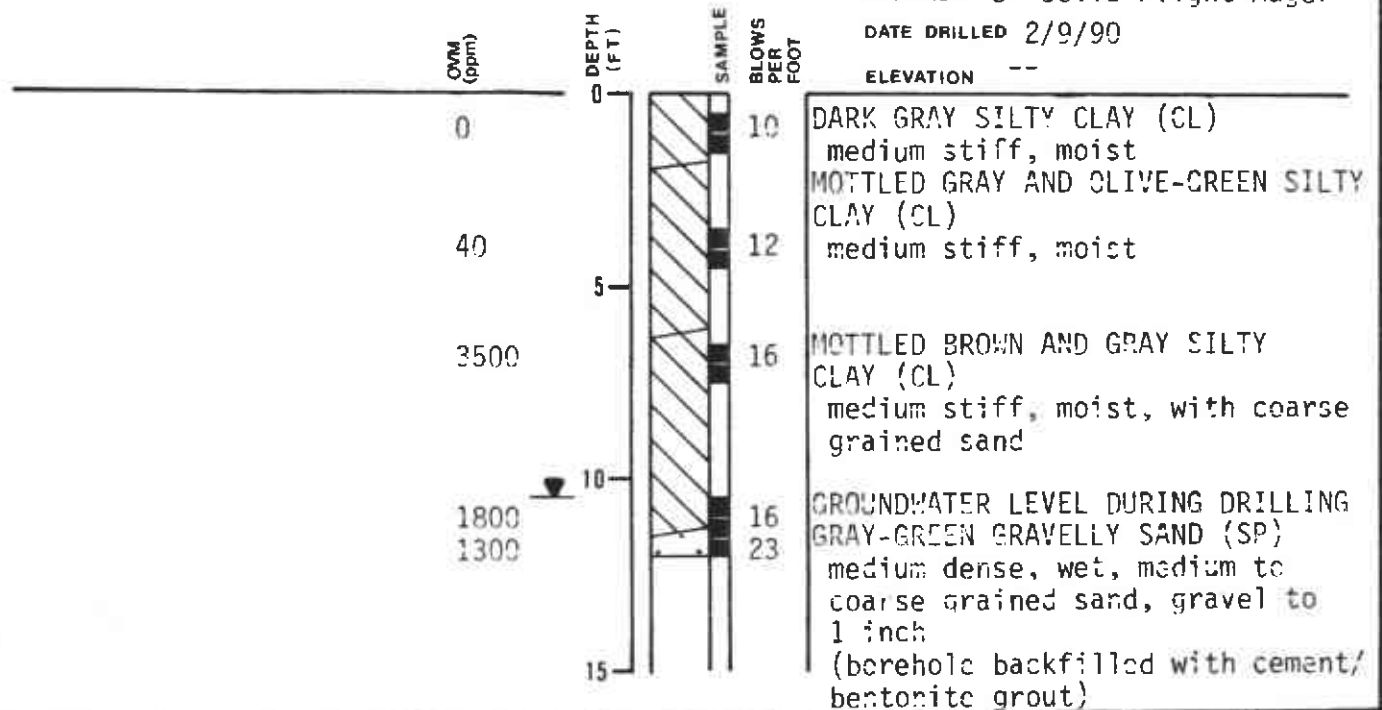


LOG OF TEST BORING 16

EQUIPMENT 3" Solid Flight Auger

DATE DRILLED 2/9/90

ELEVATION --



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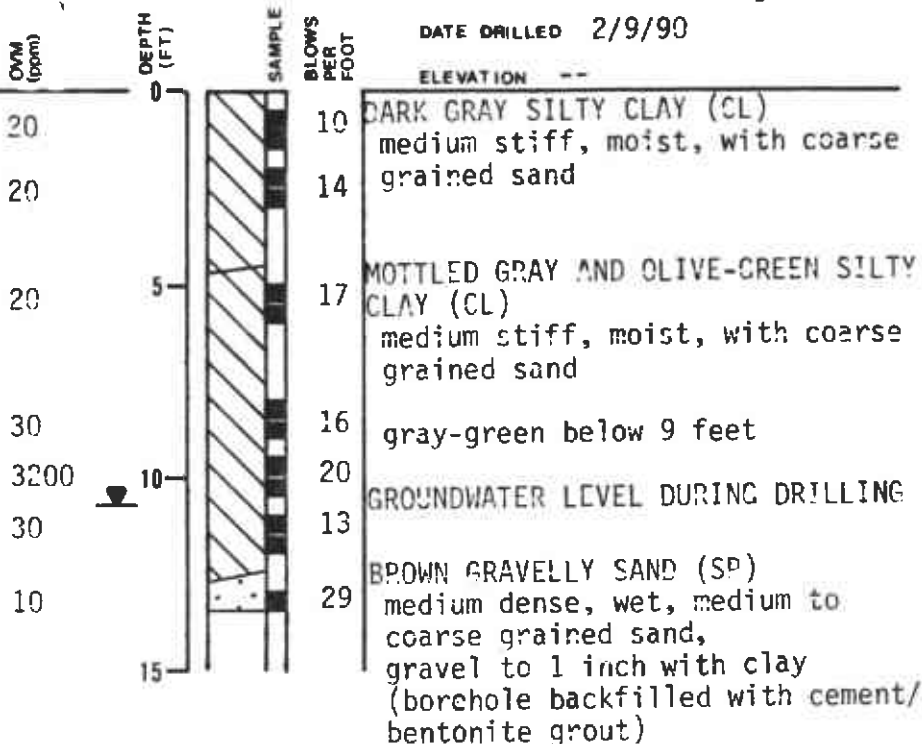
15

LOG OF TEST BORING 17

EQUIPMENT 3" Solid Flight Auger

DATE DRILLED 2/9/90

ELEVATION --



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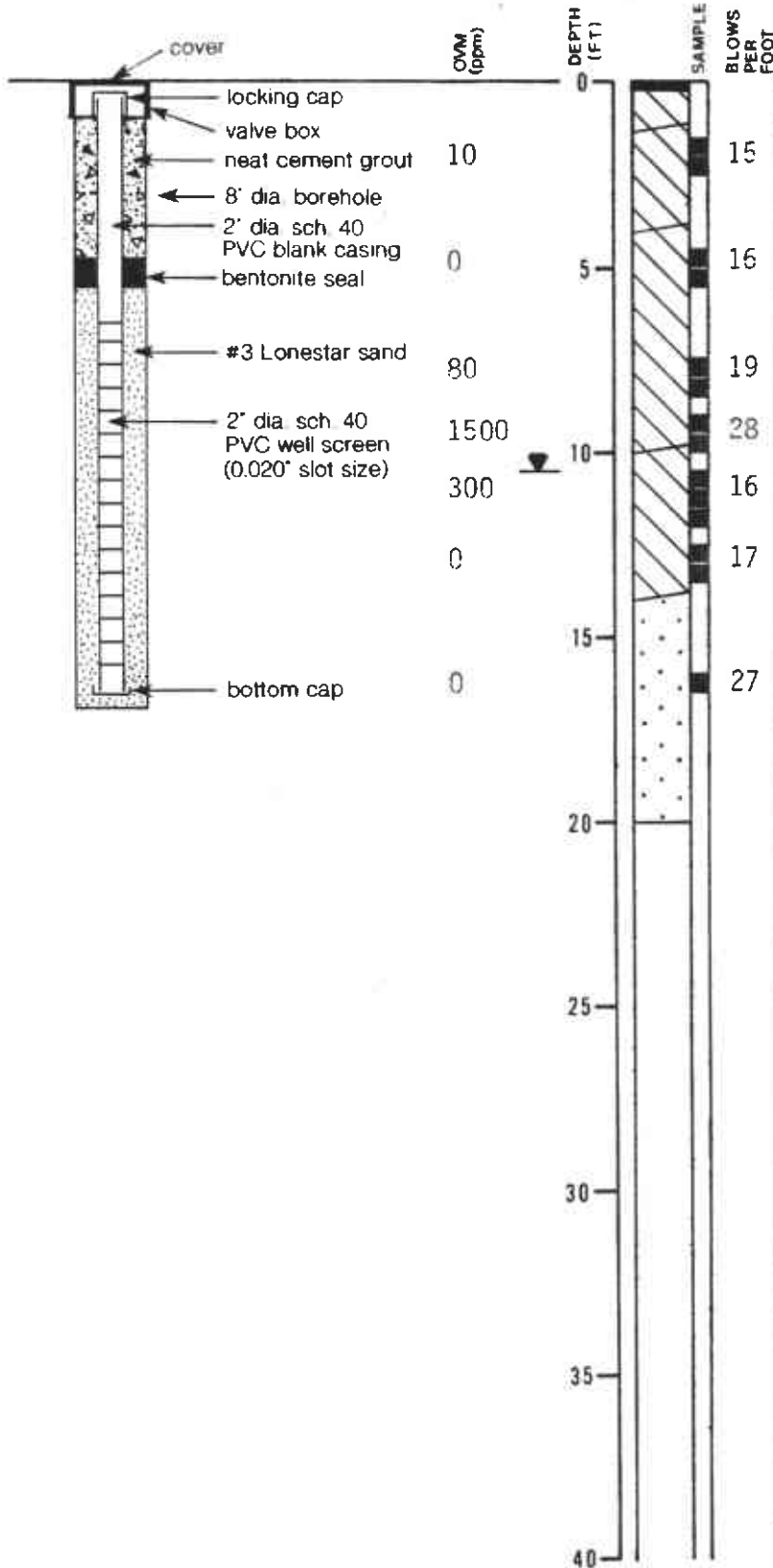
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PLATE

16

LOG OF TEST BORING 18

EQUIPMENT 6" Solid Flight Auger
 DATE DRILLED 2/9/90
 ELEVATION 99.17 feet



ASPHALTIC CONCRETE - 2" thick
 BLACK SILTY CLAY (CL)
 medium stiff, moist, with gravel (fill)
 DARK BROWN SILTY CLAY (CL)
 medium stiff, moist
 MOTTLED GRAY AND BROWN SILTY CLAY (CL)
 medium stiff, moist, with coarse grained sand
 GROUNDWATER LEVEL DURING DRILLING
 GRAY-GREEN SILTY CLAY (CL)
 medium stiff, wet, with fine grained sand
 BROWN GRAVELLY SAND (SP)
 medium dense, wet, medium to coarse grained sand, gravel to 1 inch

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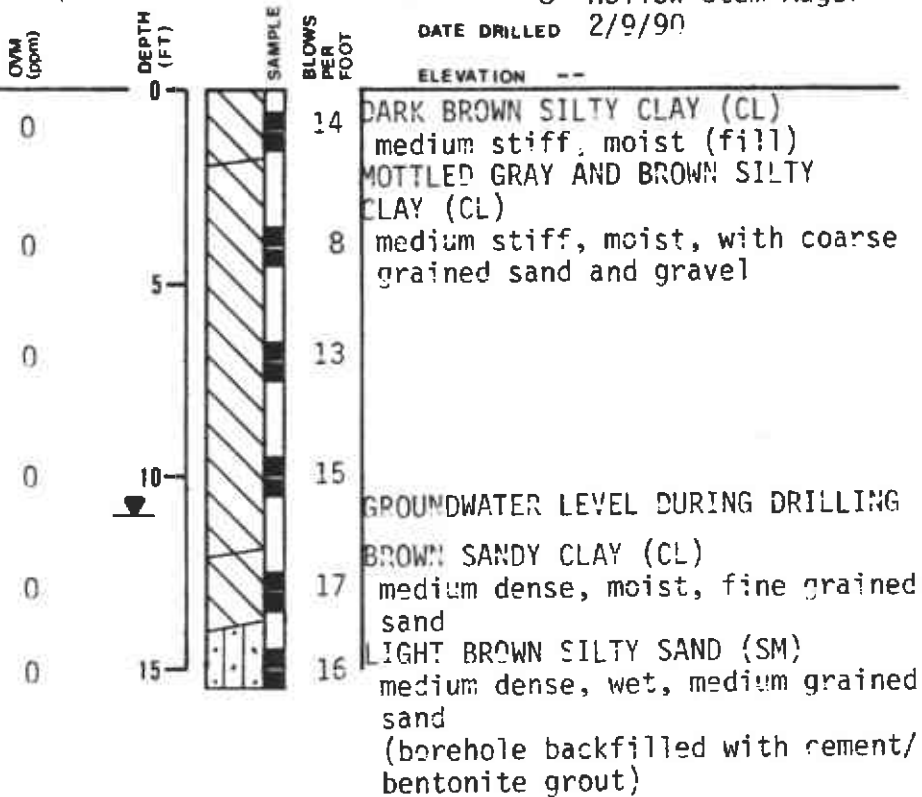
17

LOG OF TEST BORING 19

EQUIPMENT 8" Hollow Stem Auger

DATE DRILLED 2/9/90

ELEVATION --

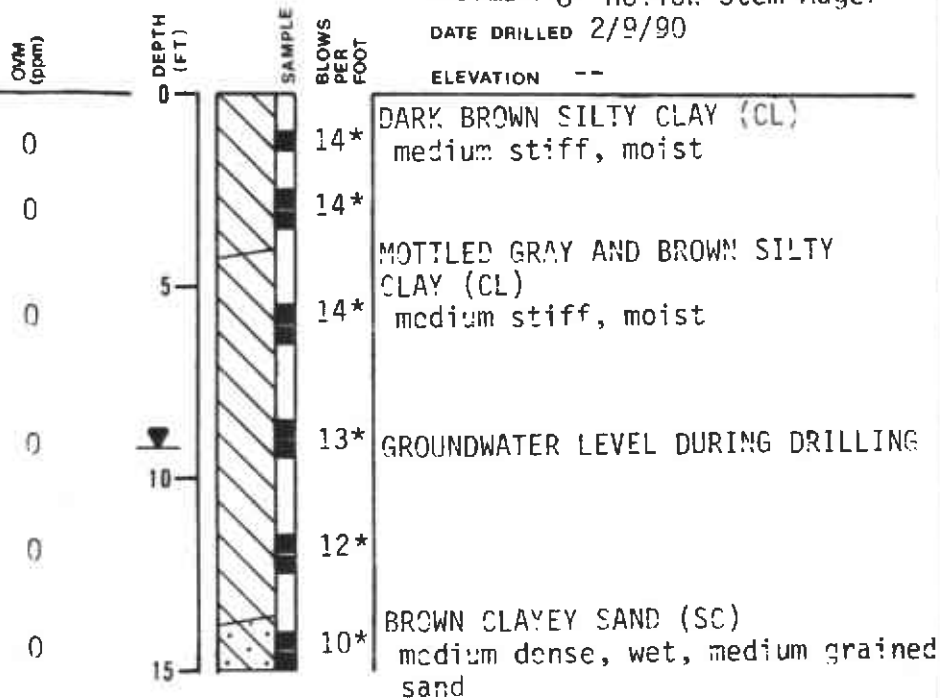


LOG OF TEST BORING 20

EQUIPMENT 8" Hollow Stem Auger

DATE DRILLED 2/9/90

ELEVATION --



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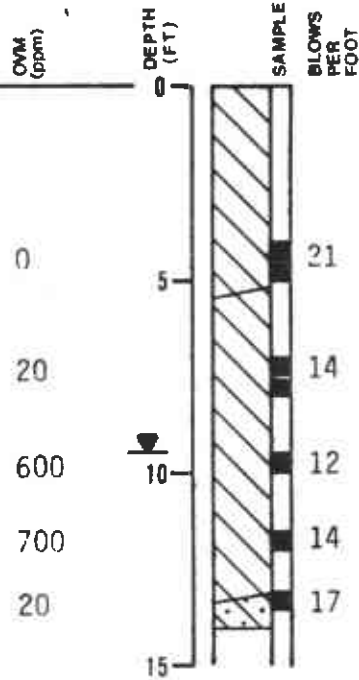
18

LOG OF TEST BORING 21

EQUIPMENT 3" Solid Flight Auger

DATE DRILLED 2/9/90

ELEVATION --



DARK GRAY SILTY CLAY (CL)
medium stiff, moist, with coarse grained sand

MOTTLED GRAY AND BROWN SILTY CLAY (CL)
medium stiff, moist

GROUNDWATER LEVEL DURING DRILLING

BROWN CLAYEY SAND (SC)
medium dense, wet, medium grained sand
(borehole backfilled with cement/bentonite grout)

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JOB NUMBER
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DATE
2/15/90

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PLATE
19

GENERAL SOIL CATEGORIES		SYMBOLS	TYPICAL SOIL TYPES	
COARSE GRAINED SOILS More than half is larger than No. 200 sieve	GRAVEL More than half coarse fraction is larger than No. 4 sieve size	GW GP GM GC	Well Graded Gravel, Gravel-Sand Mixtures Poorly Graded Gravel, Gravel-Sand Mixtures Silty Gravel, Poorly Graded Gravel-Sand-Silt Mixtures Clayey Gravel, Poorly Graded Gravel-Sand-Clay Mixtures	
	Clean Gravel with little or no fines Gravel with more than 12% fines	SW SP SM SC	Well Graded Sand, Gravelly Sand Poorly Graded Sand, Gravelly Sand Silty Sand, Poorly Graded Sand-Silt Mixtures Clayey Sand, Poorly Graded Sand-Clay Mixtures	
	SAND More than half coarse fraction is smaller than No. 4 sieve size			
	Clean sand with little or no fines Sand with more than 12% fines			
	FINE GRAINED SOILS More than half is smaller than No. 200 sieve	SILT AND CLAY Liquid Limit Less than 50%	ML CL	Inorganic Silt and Very Fine Sand, Rock Flour, Silty or Clayey Fine Sand, or Clayey Silt with Slight Plasticity Inorganic Clay of Low to Medium Plasticity, Gravelly Clay, Sandy Clay, Silty Clay, Lean Clay
		SILT AND CLAY Liquid Limit Greater than 50%	OL MH CH OH	Organic Clay and Organic Silty Clay of Low Plasticity Inorganic Silt, Micaceous or Diatomaceous Fine Sandy or Silty Soils, Elastic Silt Inorganic Clay of High Plasticity, Fat Clay Organic Clay of Medium to High Plasticity, Organic Silt
			PT	Peat and Other Highly Organic Soils

UNIFIED SOIL CLASSIFICATION SYSTEM

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98TH & EDES - PHASE 2 - OAKLAND, CA

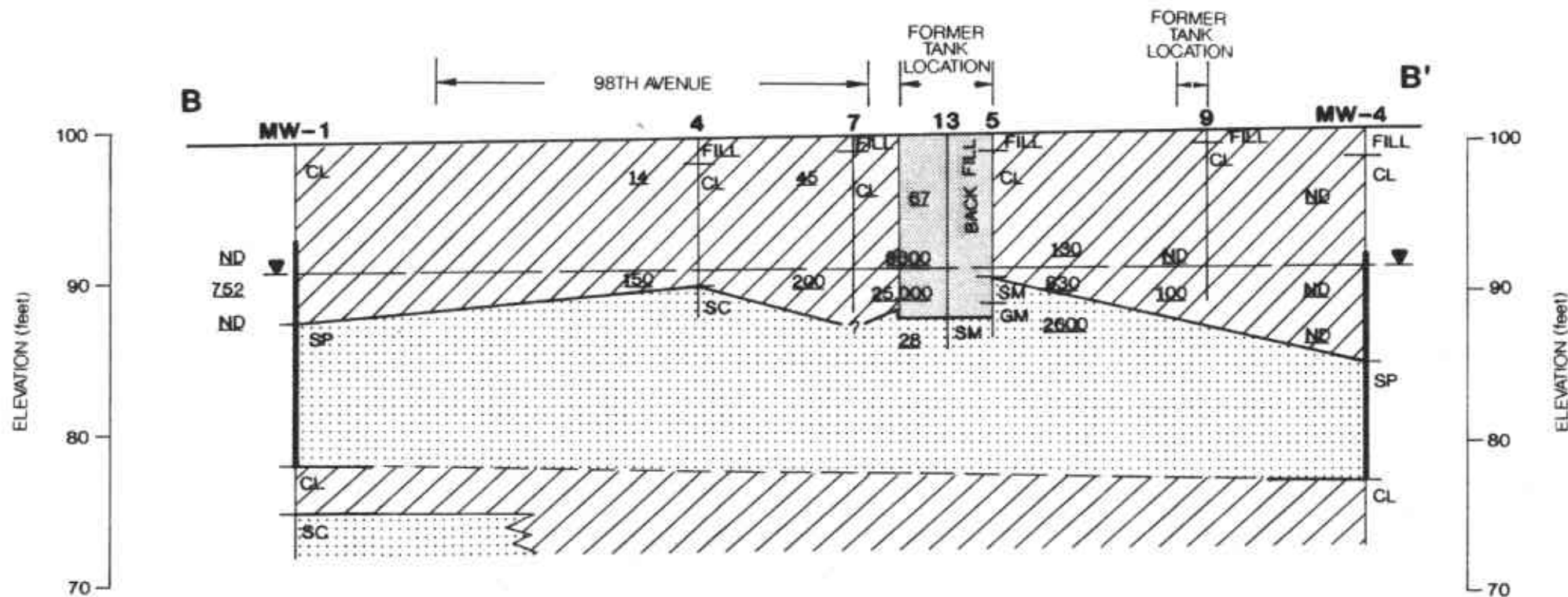
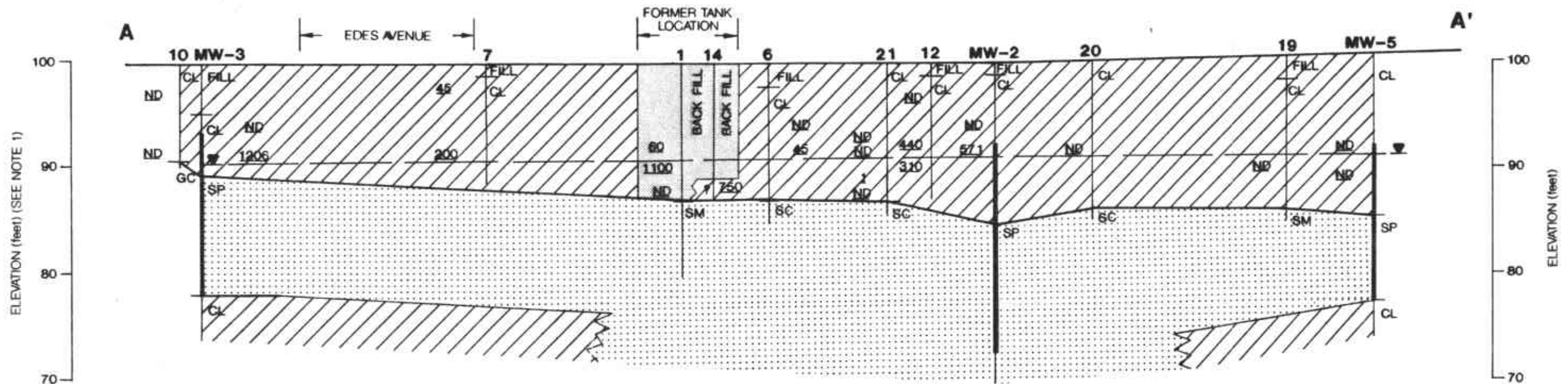
JOB NUMBER
272.016

DATE
2/15/90

APPROVED
[Signature]

PLATE

20



NOTES:

1. Based upon an assumed elevation reference, see Site Plan.
2. TPH (Sum of TVH, TEH and TOG) concentrations in ppm, are underlined.
3. Well screen intervals are shown as a thicker line.
4. The groundwater levels shown were measured on March 6, 1990.
5. The soil layer boundaries shown are based upon linear interpolations between borings, the actual boundaries could vary from those shown.

- SILTY AND SANDY CLAY
- TANK EXCAVATION BACKFILL (SAND)
- SANDS AND GRAVELS

HORIZONTAL SCALE: 1" = 40'
 VERTICAL SCALE: 1" = 10'

CROSS SECTIONS

Subsurface Consultants

98TH & EDES - PHASE 2 - OAKLAND, CA

JOB NUMBER
272.016

DATE
4/2/90

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PLATE
21



EUREKA LABORATORIES, INC.

Corporate Office:
6790 FLORIN PERKINS ROAD
SACRAMENTO, CA 95828
TEL: (916) 381-7953
FAX: (916) 381-4013

Branch Office:
12121 NORTHUP WAY, SUITE 212
BELLEVUE, WA 98005
TEL: (206) 885-0284
FAX: (206) 885-6162

Air Pollution
Chemical Analysis,
Research & Testing
Environmental Studies
Robotics
Toxicology

March 5, 1990

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MAR 09 1990

AM 7 8 9 10 11 12 1 2 3 4 5 6 PM

Mr. Bill Wikander
SUBSURFACE CONSULTANTS
171 12th Street
Oakland, CA 94607

Reference: ELI Order No: 90-02-109
Project Name: 98th & EDES, Phase 2
Job #: 272.016

Dear Mr. Wikander:

Eureka Laboratories, Inc. is pleased to submit a laboratory report for the subject task. This report presents analytical results for six (6) water samples and thirty-one (31) soil samples for the following analyses:

<u>ANALYSIS</u>	<u>METHOD</u>	<u>SAMPLE ID.</u>
Non-Halogenated Volatile Organics	Purging Trap 8015	MW1, MW2, MW3, MW4, MW5, 18, 17 @ 10', 17 @ 11.5', 18 @ 8', 18 @ 9.5', 18 @ 11.5', 19 @ 10', 20 @ 9', 21 @ 7.5', 21 @ 9.5', 21 @ 11.5', 21 @ 13', MW4 @ 13.5', MW5 @ 9', MW5 @ 11', 15 @ 6', 15 @ 9.5', 15 @ 10.5', 16 @ 4', MW1 @ 10.5', 16 @ 7', 16 @ 11.5', 17 @ 8.5', MW1 @ 8', MW1 @ 12', MW2 @ 6', MW2 @ 9', MW2 @ 12', MW3 @ 6', MW3 @ 9', MW4 @ 4.5', MW4 @ 10.5'.
Halogenated Volatile Organics	EPA 601	MW1, MW2, MW3, 18, MW4, MW5,
Aromatic Volatile Organics	EPA 602	MW4, MW5, MW1, MW2, MW3, 18
Halogenated Volatile Organics	EPA 8010	MW2 @ 9

<u>ANALYSIS</u>	<u>METHOD</u>	<u>SAMPLE ID.</u>
Aromatic Volatile Organics	EPA 8020	17 @ 11.5, 18 @ 8', 19 @ 10', 20 @ 9', 21 @ 7.5', 21 @ 13', MW4 @ 13.4, MW5 @ 9', MW2 @ 9 MW5 @ 11', 15 @ 6', 16 @ 4', 17 @ 8.5', MW1 @ 8', MW1 @ 12', MW2 @ 6', MW3 @ 6', MW4 @ 4.5', MW4 @ 10.5', 17 @ 10', MW2 @ 12, 18 @ 9.5', 18 @ 11.5', 21 @ 9.5', 21 @ 11.5', 15 @ 9.5', 15 @ 10.5', 16 @ 7', 16 @ 11.5', MW1 @ 10.5', MW3 @ 9'.
Total Petroleum Hydrocarbons	EPA 8015 (MODIFIED)	18 @ 9.5', 21 @ 9.5', MW5 @ 9', MW1 @ 10.5, MW2 @ 9', MW3 @ 9', MW4 @ 10.5', MW1, MW2, MW3, MW4, MW5, 18
Total Recoverable Hydrocarbons	EPA 418.1	MW1, MW2, MW3, MW4, MW5, 18. 18 @ 9.5, 21 @ 9.5, MW5 @ 9', MW1 @ 10.5', MW2 @ 9', MW3 @ 9', MW4 @ 10.5'.

Sincerely,
EUREKA LABORATORIES, INC.

By: Shao-Pin Yo
Shao-Pin Yo, Ph.D.
Laboratory Director

SPY/da

Attachment

NON-HALOGENATED VOLATILE ORGANICS
METHOD: PURGING TRAP 8015

EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

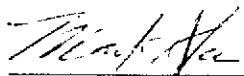
Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: WATER BLANK

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

COMP. NO.	COMPOUND	mg/L (ppm)	DETECTION LIMIT mg/L (ppm)
V1	Acrylamide	<6	6
V2	Diethyl ether *	<2	2
V3	Ethanol *	<2	2
V4	Methyl ethyl ketone (MEK)	<0.4	0.4
V5	Methyl isobutyl ketone (MIBK)	<0.4	0.4
V6	Paraldehyde	<0.4	0.4

* These two compounds co-eluted.


Mark Shih, Ph.D.
Chemist

March 5, 1990
Date

NON-HALOGENATED VOLATILE ORGANICS
METHOD: PURGING TRAP 8015

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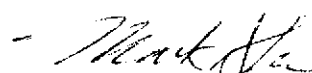
Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: MW1

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

COMP. NO.	COMPOUND	mg/L (ppm)	DETECTION LIMIT mg/L (ppm)
V1	Acrylamide	<6	6
V2	Diethyl ether *	<2	2
V3	Ethanol *	<2	2
V4	Methyl ethyl ketone (MEK)	<0.4	0.4
V5	Methyl isobutyl ketone (MIBK)	<0.4	0.4
V6	Paraaldehyde	<0.4	0.4

* These two compounds co-eluted.



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METHOD: PURGING TRAP 8015

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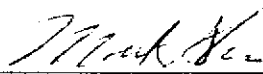
Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: MW2

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

COMP. NO.	COMPOUND	mg/L (ppm)	DETECTION LIMIT mg/L (ppm)
V1	Acrylamide	<6	6
V2	Diethyl ether *	<2	2
V3	Ethanol *	<2	2
V4	Methyl ethyl ketone (MEK)	<0.4	0.4
V5	Methyl isobutyl ketone (MIBK)	<0.4	0.4
V6	Paraldehyde	<0.4	0.4

* These two compounds co-eluted.



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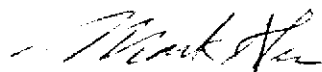
Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: MW3

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

COMP. NO.	COMPOUND	mg/L (ppm)	DETECTION LIMIT mg/L (ppm)
V1	Acrylamide	<6	6
V2	Diethyl ether *	<2	2
V3	Ethanol *	<2	2
V4	Methyl ethyl ketone (MEK)	<0.4	0.4
V5	Methyl isobutyl ketone (MIBK)	<0.4	0.4
V6	Paraldehyde	<0.4	0.4

* These two compounds co-eluted.



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METHOD: PURGING TRAP 8015

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Sacramento, CA 95828
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Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: MW4

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

COMP. NO.	COMPOUND	mg/L (ppm)	DETECTION LIMIT mg/L (ppm)
V1	Acrylamide	<6	6
V2	Diethyl ether *	<2	2
V3	Ethanol *	<2	2
V4	Methyl ethyl ketone (MEK)	<0.4	0.4
V5	Methyl isobutyl ketone (MIBK)	<0.4	0.4
V6	Paraaldehyde	<0.4	0.4

* These two compounds co-eluted.



Mark Shih, Ph.D.
Chemist

March 5, 1990
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METHOD: PURGING TRAP 8015

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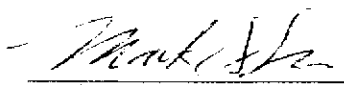
Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: MW5

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

COMP. NO.	COMPOUND	mg/L (ppm)	DETECTION LIMIT mg/L (ppm)
V1	Acrylamide	<6	6
V2	Diethyl ether *	<2	2
V3	Ethanol *	<2	2
V4	Methyl ethyl ketone (MEK)	<0.4	0.4
V5	Methyl isobutyl ketone (MIBK)	<0.4	0.4
V6	Paraldehyde	<0.4	0.4

* These two compounds co-eluted.



Mark Shih, Ph.D.
Chemist

March 5, 1990
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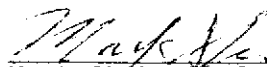
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Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: 18

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

COMP. NO.	COMPOUND	mg/L (ppm)	DETECTION LIMIT mg/L (ppm)
V1	Acrylamide	<1500	1500
V2	Diethyl ether *	<500	500
V3	Ethanol *	<500	500
V4	Methyl ethyl ketone (MEK)	<100	100
V5	Methyl isobutyl ketone (MIBK)	<100	100
V6	Paraldehyde	<100	100

* These two compounds co-eluted
High Detection Limit due to matrix interference.


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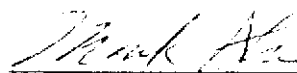
Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: SOIL BLANK

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

COMP. NO.	COMPOUND	mg/Kg (ppm)	DETECTION LIMIT mg/Kg (ppm)
V1	Acrylamide	NA	NA
V2	Diethyl ether *	<0.12	0.12
V3	Ethanol *	<0.12	0.12
V4	Methyl ethyl ketone (MEK)	<0.20	0.20
V5	Methyl isobutyl ketone (MIBK)	<0.10	0.10
V6	Paraldehyde	NA	NA

* These two compounds co-eluted.



Mark Shih, Ph.D.
Chemist

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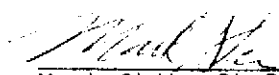
Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: 17 @ 10'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

COMP. NO.	COMPOUND	mg/Kg (ppm)	DETECTION LIMIT mg/Kg (ppm)
V1	Acrylamide	NA	NA
V2	Diethyl ether *	<0.12	0.12
V3	Ethanol *	<0.12	0.12
V4	Methyl ethyl ketone (MEK)	<0.20	0.20
V5	Methyl isobutyl ketone (MIBK)	<0.10	0.10
V6	Paraldehyde	NA	NA

* These two compounds co-eluted.



Mark Shih, Ph.D.
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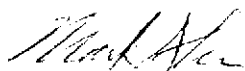
Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: 17 @ 11.5'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

COMP. NO.	COMPOUND	mg/Kg (ppm)	DETECTION LIMIT mg/Kg(ppm)
V1	Acrylamide	<NA	NA
V2	Diethyl ether *	<0.12	0.12
V3	Ethanol *	<0.12	0.12
V4	Methyl ethyl ketone (MEK)	<0.20	0.20
V5	Methyl isobutyl ketone (MIBK)	<0.10	0.10
V6	Paraldehyde	NA	NA

* These two compounds co-eluted.



Mark Shih, Ph.D.
Chemist

March 5, 1990

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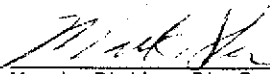
Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: 18 @ 8'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

COMP. NO.	COMPOUND	mg/Kg (ppm)	DETECTION LIMIT mg/Kg (ppm)
V1	Acrylamide	<NA	NA
V2	Diethyl ether *	<0.12	0.12
V3	Ethanol *	2.10	0.12
V4	Methyl ethyl ketone (MEK)	8.07	0.20
V5	Methyl isobutyl ketone (MIBK)	<0.10	0.10
V6	Paraldehyde	NA	NA

* These two compounds co-eluted.


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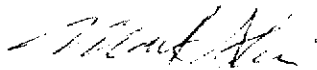
Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: 18 @ 9.5'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

COMP. NO.	COMPOUND	mg/Kg (ppm)	DETECTION LIMIT mg/Kg (ppm)
V1	Acrylamide	<NA	NA
V2	Diethyl ether *	<0.12	0.12
V3	Ethanol *	0.22	0.12
V4	Methyl ethyl ketone (MEK)	3.81	0.20
V5	Methyl isobutyl ketone (MIBK)	<0.10	0.10
V6	Paraaldehyde	NA	NA

* These two compounds co-eluted.



Mark Shih, Ph.D.
Chemist

March 5, 1990
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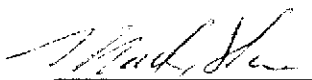
Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: 18 @ 11.5'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

COMP. NO.	COMPOUND	mg/Kg (ppm)	DETECTION LIMIT mg/Kg (ppm)
V1	Acrylamide	<NA	NA
V2	Diethyl ether *	<0.12	0.12
V3	Ethanol *	0.3	0.12
V4	Methyl ethyl ketone (MEK)	<0.20	0.20
V5	Methyl isobutyl ketone (MIBK)	<0.10	0.10
V6	Paraldehyde	NA	NA

* These two compounds co-eluted.



Mark Shih, Ph.D.
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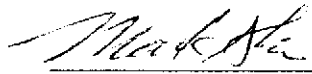
Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: 19 @ 10'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

COMP. NO.	COMPOUND	mg/Kg (ppm)	DETECTION LIMIT mg/Kg (ppm)
V1	Acrylamide	<NA	NA
V2	Diethyl ether *	<0.12	0.12
V3	Ethanol *	1.86	0.12
V4	Methyl ethyl ketone (MEK)	7.23	.20
V5	Methyl isobutyl ketone (MIBK)	<0.10	0.10
V6	Paraldehyde	NA	NA

* These two compounds co-eluted.



Mark Shih, Ph.D.
Chemist

March 5, 1990

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METHOD: PURGING TRAP 8015

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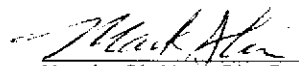
Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: 20 @ 9'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

COMP. NO.	COMPOUND	mg/Kg (ppm)	DETECTION LIMIT mg/Kg (ppm)
V1	Acrylamide	NA	NA
V2	Diethyl ether *	<0.12	0.12
V3	Ethanol *	<0.12	0.12
V4	Methyl ethyl ketone (MEK)	<0.20	0.20
V5	Methyl isobutyl ketone (MIBK)	<0.10	0.10
V6	Paraldehyde	NA	NA

* These two compounds co-eluted.


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Chemist

March 5, 1990
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METHOD: PURGING TRAP 8015

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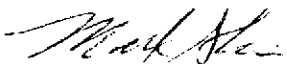
Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: 21 @ 7.5'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

COMP. NO.	COMPOUND	mg/Kg (ppm)	DETECTION LIMIT mg/Kg (ppm)
V1	Acrylamide	<NA	NA
V2	Diethyl ether *	<0.12	0.12
V3	Ethanol *	<0.12	0.12
V4	Methyl ethyl ketone (MEK)	5.40	0.20
V5	Methyl isobutyl ketone (MIBK)	<0.10	0.10
V6	Paraldehyde	NA	NA

* These two compounds co-eluted.



Mark Shih, Ph.D.
Chemist

March 5, 1990

Date

NON-HALOGENATED VOLATILE ORGANICS
METHOD: PURGING TRAP 8015

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Sacramento, CA 95828
(916) 381-7953

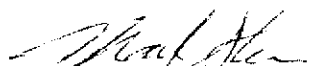
Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: 21 @ 9.5'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

COMP. NO.	COMPOUND	mg/Kg (ppm)	DETECTION LIMIT mg/Kg (ppm)
V1	Acrylamide	<NA	NA
V2	Diethyl ether *	<0.12	0.12
V3	Ethanol *	<0.12	0.12
V4	Methyl ethyl ketone (MEK)	1.45	0.20
V5	Methyl isobutyl ketone (MIBK)	<0.10	0.10
V6	Paraldehyde	NA	NA

* These two compounds co-eluted.



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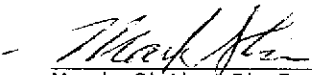
Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: 21 @ 11.5'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

COMP. NO.	COMPOUND	mg/Kg (ppm)	DETECTION LIMIT mg/Kg (ppm)
V1	Acrylamide	<NA	NA
V2	Diethyl ether *	<0.12	0.12
V3	Ethanol *	<0.12	0.12
V4	Methyl ethyl ketone (MEK)	5.96	0.20
V5	Methyl isobutyl ketone (MIBK)	<0.10	0.10
V6	Paraldehyde	NA	NA

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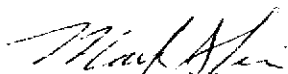
Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: 21 @ 13'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

COMP. NO.	COMPOUND	mg/Kg (ppm)	DETECTION LIMIT mg/Kg (ppm)
V1	Acrylamide	<NA	NA
V2	Diethyl ether *	<0.12	0.12
V3	Ethanol *	1.66	0.12
V4	Methyl ethyl ketone (MEK)	5.16	0.20
V5	Methyl isobutyl ketone (MIBK)	<0.10	0.10
V6	Paraldehyde	NA	NA

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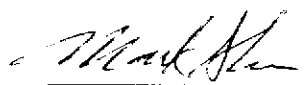
Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: MW4 @ 13.5'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

COMP. NO.	COMPOUND	mg/Kg (ppm)	DETECTION LIMIT mg/Kg (ppm)
V1	Acrylamide	NA	NA
V2	Diethyl ether *	<0.12	0.12
V3	Ethanol *	<0.12	0.12
V4	Methyl ethyl ketone (MEK)	<0.20	0.20
V5	Methyl isobutyl ketone (MIBK)	<0.10	0.10
V6	Paraldehyde	NA	NA

* These two compounds co-eluted.


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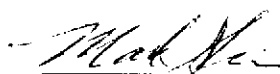
Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: MW5 @ 9'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

COMP. NO.	COMPOUND	mg/Kg (ppm)	DETECTION LIMIT mg/Kg (ppm)
V1	Acrylamide	NA	NA
V2	Diethyl ether *	<0.12	0.12
V3	Ethanol *	<0.12	0.12
V4	Methyl ethyl ketone (MEK)	<0.20	0.20
V5	Methyl isobutyl ketone (MIBK)	<0.10	0.10
V6	Paraldehyde	NA	NA

* These two compounds co-eluted.



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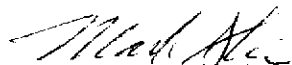
Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: MW5 @ 11'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

COMP. NO.	COMPOUND	mg/Kg (ppm)	DETECTION LIMIT mg/Kg (ppm)
V1	Acrylamide	NA	NA
V2	Diethyl ether *	<0.12	0.12
V3	Ethanol *	<0.12	0.12
V4	Methyl ethyl ketone (MEK)	<0.20	0.20
V5	Methyl isobutyl ketone (MIBK)	<0.10	0.10
V6	Paraldehyde	NA	NA

* These two compounds co-eluted.



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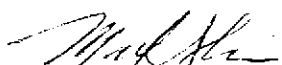
Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: 15 @ 6'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

COMP. NO.	COMPOUND	mg/Kg (ppm)	DETECTION LIMIT mg/Kg (ppm)
V1	Acrylamide	NA	NA
V2	Diethyl ether *	<0.12	0.12
V3	Ethanol *	2.82	0.12
V4	Methyl ethyl ketone (MEK)	7.83	0.20
V5	Methyl isobutyl ketone (MIBK)	<0.10	0.10
V6	Paraldehyde	NA	NA

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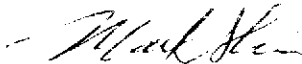
Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: 15 @ 9.5'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

COMP. NO.	COMPOUND	mg/Kg (ppm)	DETECTION LIMIT mg/Kg (ppm)
V1	Acrylamide	NA	NA
V2	Diethyl ether *	<0.12	0.12
V3	Ethanol *	0.28	0.12
V4	Methyl ethyl ketone (MEK)	0.66	0.20
V5	Methyl isobutyl ketone (MIBK)	<0.10	0.10
V6	Paraldehyde	NA	NA

* These two compounds co-eluted.



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Order No: 90-02-109
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Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: 15 @ 10.5'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

COMP. NO.	COMPOUND	mg/Kg (ppm)	DETECTION LIMIT mg/Kg(ppm)
V1	Acrylamide	<15	15
V2	Diethyl ether *	<5	5
V3	Ethanol *	4.65	5
V4	Methyl ethyl ketone (MEK)	<1	1
V5	Methyl isobutyl ketone (MIBK)	7.21	1
V6	Paraldehyde	<1	1

* These two compounds co-eluted.



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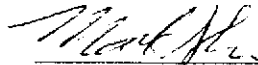
Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: 16 @ 4'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

COMP. NO.	COMPOUND	mg/Kg (ppm)	DETECTION LIMIT mg/Kg (ppm)
V1	Acrylamide	NA	NA
V2	Diethyl ether *	<0.12	0.12
V3	Ethanol *	3.0	0.12
V4	Methyl ethyl ketone (MEK)	11.01	0.20
V5	Methyl isobutyl ketone (MIBK)	<0.10	0.10
V6	Paraldehyde	NA	NA

* These two compounds co-eluted.



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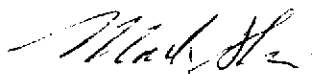
Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: MW1 @ 10.5'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

COMP. NO.	COMPOUND	mg/Kg (ppm)	DETECTION LIMIT mg/Kg (ppm)
V1	Acrylamide	NA	NA
V2	Diethyl ether *	<0.12	0.12
V3	Ethanol *	<0.12	0.12
V4	Methyl ethyl ketone (MEK)	2.42	0.20
V5	Methyl isobutyl ketone (MIBK)	<0.10	0.10
V6	Paraldehyde	NA	NA

* These two compounds co-eluted.



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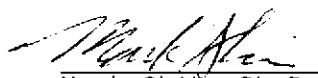
Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: 16 @ 7'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

COMP. NO.	COMPOUND	mg/Kg (ppm)	DETECTION LIMIT mg/Kg (ppm)
V1	Acrylamide	NA	NA
V2	Diethyl ether *	<0.12	0.12
V3	Ethanol *	1.26	0.12
V4	Methyl ethyl ketone (MEK)	4.30	0.20
V5	Methyl isobutyl ketone (MIBK)	<0.10	0.10
V6	Paraldehyde	NA	NA

* These two compounds co-eluted.



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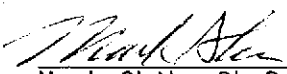
Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: 16 @ 11.5'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

COMP. NO.	COMPOUND	mg/Kg (ppm)	DETECTION LIMIT mg/Kg (ppm)
V1	Acrylamide	<15	15
V2	Diethyl ether *	<5	5
V3	Ethanol *	<5	5
V4	Methyl ethyl ketone (MEK)	<1	1
V5	Methyl isobutyl ketone (MIBK)	40.71	1
V6	Paraldehyde	<1	1

* These two compounds co-eluted.



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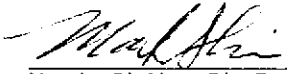
Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: 17 @ 8.5'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

COMP. NO.	COMPOUND	mg/Kg (ppm)	DETECTION LIMIT mg/Kg (ppm)
V1	Acrylamide	NA	NA
V2	Diethyl ether *	<0.12	0.12
V3	Ethanol *	<0.12	0.12
V4	Methyl ethyl ketone (MEK)	<0.20	0.20
V5	Methyl isobutyl ketone (MIBK)	<0.10	0.10
V6	Paraldehyde	NA	NA

* These two compounds co-eluted.



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Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS	DATE RECEIVED : 02/15/1990
PROJECT NAME: 98TH & EDES, PHASE 2	DATE EXTRACTED: 02/23/1990
JOB #: 272.016	DATE COMPLETED: 03/02/1990
SAMPLE ID: MW1 @ 8'	

COMP. NO.	COMPOUND	mg/Kg (ppm)	DETECTION LIMIT mg/Kg (ppm)
V1	Acrylamide	<NA	NA
V2	Diethyl ether *	<0.12	0.12
V3	Ethanol *	1.62	0.12
V4	Methyl ethyl ketone (MEK)	4.22	0.20
V5	Methyl isobutyl ketone (MIBK)	<0.10	0.10
V6	Paraldehyde	NA	NA

* These two compounds co-eluted.



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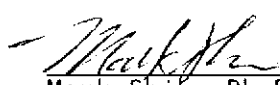
Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: MW1 @ 12'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

COMP. NO.	COMPOUND	mg/Kg (ppm)	DETECTION LIMIT mg/Kg (ppm)
V1	Acrylamide	NA	NA
V2	Diethyl ether *	<0.12	0.12
V3	Ethanol *	2.12	0.12
V4	Methyl ethyl ketone (MEK)	<0.20	0.20
V5	Methyl isobutyl ketone (MIBK)	<0.10	0.10
V6	Paraldehyde	NA	NA

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Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: MW2 @ 6'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

COMP. NO.	COMPOUND	mg/Kg (ppm)	DETECTION LIMIT mg/Kg(ppm)
V1	Acrylamide	<NA	NA
V2	Diethyl ether *	<0.12	0.12
V3	Ethanol *	3.48	0.12
V4	Methyl ethyl ketone (MEK)	12.90	0.20
V5	Methyl isobutyl ketone (MIBK)	<0.10	0.10
V6	Paraldehyde	NA	NA

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Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: MW2 @ 9'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

COMP. NO.	COMPOUND	mg/Kg (ppm)	DETECTION LIMIT mg/Kg (ppm)
V1	Acrylamide	<NA	NA
V2	Diethyl ether *	<0.12	0.12
V3	Ethanol *	2.50	0.12
V4	Methyl ethyl ketone (MEK)	7.71	0.20
V5	Methyl isobutyl ketone (MIBK)	<0.10	0.10
V6	Paraldehyde	NA	NA

* These two compounds co-eluted.


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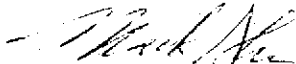
Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: MW2 @ 12'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

COMP. NO.	COMPOUND	mg/Kg (ppm)	DETECTION LIMIT mg/Kg (ppm)
V1	Acrylamide	NA	NA
V2	Diethyl ether *	<0.12	0.12
V3	Ethanol *	2.76	0.12
V4	Methyl ethyl ketone (MEK)	12.56	0.20
V5	Methyl isobutyl ketone (MIBK)	<0.10	0.10
V6	Paraldehyde	NA	NA

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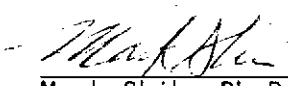
Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: MW3 @ 6'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

COMP. NO.	COMPOUND	mg/Kg (ppm)	DETECTION LIMIT mg/Kg (ppm)
V1	Acrylamide	NA	NA
V2	Diethyl ether *	<0.12	0.12
V3	Ethanol *	3.40	0.12
V4	Methyl ethyl ketone (MEK)	11.35	0.20
V5	Methyl isobutyl ketone (MIBK)	<0.10	0.10
V6	Paraldehyde	NA	NA

* These two compounds co-eluted.


Mark Shih, Ph.D.
Chemist

March 5, 1990
Date

NON-HALOGENATED VOLATILE ORGANICS
METHOD: PURGING TRAP 8015

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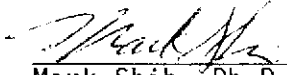
Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: MW3 @ 9'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

COMP. NO.	COMPOUND	mg/Kg (ppm)	DETECTION LIMIT mg/Kg (ppm)
V1	Acrylamide	<15	15
V2	Diethyl ether *	<5	5
V3	Ethanol *	54.4	5
V4	Methyl ethyl ketone (MEK)	8.15	1
V5	Methyl isobutyl ketone (MIBK)	<1	1
V6	Paraldehyde	<1	1

* These two compounds co-eluted.



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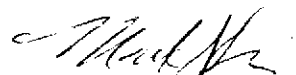
Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: MW4 @ 4.5'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

COMP. NO.	COMPOUND	mg/Kg (ppm)	DETECTION LIMIT mg/Kg (ppm)
V1	Acrylamide	NA	NA
V2	Diethyl ether *	<0.12	0.12
V3	Ethanol *	<0.12	0.12
V4	Methyl ethyl ketone (MEK)	3.67	0.20
V5	Methyl isobutyl ketone (MIBK)	<0.10	0.10
V6	Paraldehyde	NA	NA

* These two compounds co-eluted.



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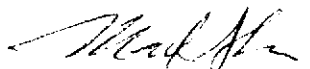
Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: MW4 @ 10.5'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

COMP. NO.	COMPOUND	mg/Kg (ppm)	DETECTION LIMIT mg/Kg (ppm)
V1	Acrylamide	NA	NA
V2	Diethyl ether *	<0.12	0.12
V3	Ethanol *	1.62	0.12
V4	Methyl ethyl ketone (MEK)	7.87	0.20
V5	Methyl isobutyl ketone (MIBK)	<0.10	0.10
V6	Paraldehyde	NA	NA

* These two compounds co-eluted.



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NON-HALOGENATED VOLATILE ORGANICS
METHOD: PURGING TRAP 8015

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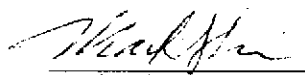
Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: REAGENT SPIKE RECOVERY

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

SPIKE RECOVERY

V1	Acrylamide	-
V2	Diethyl ether	100%
V3	Ethanol	100%
V4	Methyl ethyl ketone (MEK)	104%
V5	Methyl isobutyl ketone (MIBK)	102%
V6	Paraldehyde	-



Mark Shih, Ph.D.
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NON-HALOGENATED VOLATILE ORGANICS
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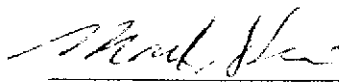
Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: REAGENT SPIKE RECOVERY
DUPLICATE

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

SPIKE RECOVERY

V1	Acrylamide	-
V2	Diethyl ether	100%
V3	Ethanol	100%
V4	Methyl ethyl ketone (MEK)	97%
V5	Methyl isobutyl ketone (MIBK)	98%
V6	Paraldehyde	-



Mark Shih, Ph.D.
Chemist

March 5, 1990
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ORGANIC ANALYSIS REPORT
 Halogenated Volatile Organics, EPA Method 601

EUREKA LABORATORIES, INC.
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 Sacramento, CA 95828
 (916) 381-7953

Order No: 90-02-109
 Hazardous Waste Testing
 Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
 PROJECT NAME: 98TH & EDES, PHASE 2
 JOB #: 272.016
 SAMPLE ID: BLANK

DATE RECEIVED : 02/15/1990
 DATE EXTRACTED: 02/22/1990
 DATE COMPLETED: 03/05/1990

COMP. No.	COMPOUND	ug/L (ppb)	DETECTION LIMIT ug/L (ppb)
V1	Bromodichloromethane	<0.5	0.5
V2	Bromoform	<0.5	0.5
V3	Bromomethane	<0.5	0.5
V4	Carbon tetrachloride	<0.5	0.5
V5	Chlorobenzene	<0.5	0.5
V6	Chloroethane	<0.5	0.5
V7	Chloroform	<0.5	0.5
V8	Chloromethane	<0.5	0.5
V9	Dibromochloromethane	<0.5	0.5
V10	Dibromomethane	<0.5	0.5
V11	1,2-Dichlorobenzene	<0.5	0.5
V12	1,3-Dichlorobenzene	<0.5	0.5
V13	1,4-Dichlorobenzene	<0.5	0.5
V14	1,1-Dichloroethane	<0.5	0.5
V15	1,2-Dichloroethane	<0.5	0.5
V16	1,1-Dichloroethylene (Vinylidene chloride)	<0.5	0.5
V17	trans-1,2-Dichloroethylene	<0.5	0.5
V18	Dichloromethane	<0.5	0.5
V19	1,2-Dichloropropane	<0.5	0.5
V20	cis-1,3-Dichloropropylene	<0.5	0.5
V21	trans-1,3-Dichloropropylene	<0.5	0.5
V22	1,1,2,2-Tetrachloroethane	<0.5	0.5
V23	1,1,1,2-Tetrachloroethane	<0.5	0.5
V24	Tetrachloroethylene	<0.5	0.5
V25	1,1,1-Trichloroethane	<0.5	0.5
V26	1,1,2-Trichloroethane	<0.5	0.5
V27	Trichloroethylene	<0.5	0.5
V28	Vinyl chloride	<0.5	0.5
V29	Dichlorodifluoromethane	<0.5	0.5
V30	Trichlorofluoromethane	<0.5	0.5
V31	2-chloro-ethyl-vinyl-ether	<0.5	0.5

Huey-Chen Chow

Huey-Chen Chow
 Chemist

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ORGANIC ANALYSIS REPORT
 Halogenated Volatile Organics, EPA Method 601

EUREKA LABORATORIES, INC.
 6790 Florin Perkins Road
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Order No: 90-02-109
 Hazardous Waste Testing
 Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
 PROJECT NAME: 98TH & EDES, PHASE 2
 JOB #: 272.016
 SAMPLE ID: MW1

DATE RECEIVED : 02/15/1990
 DATE EXTRACTED: 02/22/1990
 DATE COMPLETED: 03/05/1990

COMP. No.	COMPOUND	ug/L (ppb)	DETECTION	
			LIMIT	ug/L (ppb)
V1	Bromodichloromethane	<1.2		1.2
V2	Bromoform	<1.2		1.2
V3	Bromomethane	<1.2		1.2
V4	Carbon tetrachloride	<1.2		1.2
V5	Chlorobenzene	<1.2		1.2
V6	Chloroethane	<1.2		1.2
V7	Chloroform	<1.2		1.2
V8	Chloromethane	<1.2		1.2
V9	Dibromochloromethane	<1.2		1.2
V10	Dibromomethane	<1.2		1.2
V11	1,2-Dichlorobenzene	<1.2		1.2
V12	1,3-Dichlorobenzene	<1.2		1.2
V13	1,4-Dichlorobenzene	<1.2		1.2
V14	1,1-Dichloroethane	<1.2		1.2
V15	1,2-Dichloroethane	<1.2		1.2
V16	1,1-Dichloroethylene (Vinylidene chloride)	<1.2		1.2
V17	trans-1,2-Dichloroethylene	<1.2		1.2
V18	Dichloromethane	9.0		1.2
V19	1,2-Dichloropropane	<1.2		1.2
V20	cis-1,3-Dichloropropylene	<1.2		1.2
V21	trans-1,3-Dichloropropylene	<1.2		1.2
V22	1,1,2,2-Tetrachloroethane	<1.2		1.2
V23	1,1,1,2-Tetrachloroethane	<1.2		1.2
V24	Tetrachloroethylene	2.4		1.2
V25	1,1,1-Trichloroethane	5.1		1.2
V26	1,1,2-Trichloroethane	<1.2		1.2
V27	Trichloroethylene	11.8		1.2
V28	Vinyl chloride	<1.2		1.2
V29	Dichlorodifluoromethane	<1.2		1.2
V30	Trichlorofluoromethane	<1.2		1.2
V31	2-chloro-ethyl-vinyl-ether	<1.2		1.2

Huey-Chen Chow

 Huey-Chen Chow
 Chemist

March 5, 1990

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ORGANIC ANALYSIS REPORT
 Halogenated Volatile Organics, EPA Method 601

EUREKA LABORATORIES, INC.
 6790 Florin Perkins Road
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 (916) 381-7953

Order No: 90-02-109
 Hazardous Waste Testing
 Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
 PROJECT NAME: 98TH & EDES, PHASE 2
 JOB #: 272.016
 SAMPLE ID: MW2

DATE RECEIVED : 02/15/1990
 DATE EXTRACTED: 02/22/1990
 DATE COMPLETED: 03/05/1990

COMP. No.	COMPOUND	ug/L (ppb)	DETECTION
			LIMIT ug/L (ppb)
V1	Bromodichloromethane	<1.2	1.2
V2	Bromoform	<1.2	1.2
V3	Bromomethane	<1.2	1.2
V4	Carbon tetrachloride	<1.2	1.2
V5	Chlorobenzene	<1.2	1.2
V6	Chloroethane	<1.2	1.2
V7	Chloroform	<1.2	1.2
V8	Chloromethane	<1.2	1.2
V9	Dibromochloromethane	<1.2	1.2
V10	Dibromomethane	<1.2	1.2
V11	1,2-Dichlorobenzene	<1.2	1.2
V12	1,3-Dichlorobenzene	<1.2	1.2
V13	1,4-Dichlorobenzene	<1.2	1.2
V14	1,1-Dichloroethane	4.9	1.2
V15	1,2-Dichloroethane	<1.2	1.2
V16	1,1-Dichloroethylene (Vinylidene chloride)	7.1	1.2
V17	trans-1,2-Dichloroethylene	<1.2	1.2
V18	Dichloromethane	7.9	1.2
V19	1,2-Dichloropropane	<1.2	1.2
V20	cis-1,3-Dichloropropylene	<1.2	1.2
V21	trans-1,3-Dichloropropylene	<1.2	1.2
V22	1,1,2,2-Tetrachloroethane	<1.2	1.2
V23	1,1,1,2-Tetrachloroethane	<1.2	1.2
V24	Tetrachloroethylene	8.5	1.2
V25	1,1,1-Trichloroethane	11.6	1.2
V26	1,1,2-Trichloroethane	<1.2	1.2
V27	Trichloroethylene	25.1	1.2
V28	Vinyl chloride	<1.2	1.2
V29	Dichlorodifluoromethane	<1.2	1.2
V30	Trichlorofluoromethane	<1.2	1.2
V31	2-chloro-ethyl-vinyl-ether	<1.2	1.2

Huey-Chen Chow
 Huey-Chen Chow
 Chemist

March 5, 1990
 Date

ORGANIC ANALYSIS REPORT
 Halogenated Volatile Organics, EPA Method 601

EUREKA LABORATORIES, INC.
 6790 Florin Perkins Road
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 (916) 381-7953

Order No: 90-02-109
 Hazardous Waste Testing
 Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
 PROJECT NAME: 98TH & EDES, PHASE 2
 JOB #: 272.016
 SAMPLE ID: MW3

DATE RECEIVED : 02/15/1990
 DATE EXTRACTED: 02/22/1990
 DATE COMPLETED: 03/05/1990

COMP. No.	COMPOUND	ug/L (ppb)	DETECTION LIMIT ug/L (ppb)
V1	Bromodichloromethane	<1.2	1.2
V2	Bromoform	<1.2	1.2
V3	Bromomethane	<1.2	1.2
V4	Carbon tetrachloride	<1.2	1.2
V5	Chlorobenzene	<1.2	1.2
V6	Chloroethane	<1.2	1.2
V7	Chloroform	<1.2	1.2
V8	Chloromethane	<1.2	1.2
V9	Dibromochloromethane	<1.2	1.2
V10	Dibromomethane	<1.2	1.2
V11	1,2-Dichlorobenzene	<1.2	1.2
V12	1,3-Dichlorobenzene	<1.2	1.2
V13	1,4-Dichlorobenzene	<1.2	1.2
V14	1,1-Dichloroethane	<1.2	1.2
V15	1,2-Dichloroethane	<1.2	1.2
V16	1,1-Dichloroethylene (Vinylidene chloride)	5.7	1.2
V17	trans-1,2-Dichloroethylene	<1.2	1.2
V18	Dichloromethane	69.2	1.2
V19	1,2-Dichloropropane	<1.2	1.2
V20	cis-1,3-Dichloropropylene	<1.2	1.2
V21	trans-1,3-Dichloropropylene	<1.2	1.2
V22	1,1,2,2-Tetrachloroethane	<1.2	1.2
V23	1,1,1,2-Tetrachloroethane	<1.2	1.2
V24	Tetrachloroethylene	1.6	1.2
V25	1,1,1-Trichloroethane	17.1	1.2
V26	1,1,2-Trichloroethane	<1.2	1.2
V27	Trichloroethylene	21.7	1.2
V28	Vinyl chloride	<1.2	1.2
V29	Dichlorodifluoromethane	<1.2	1.2
V30	Trichlorofluoromethane	<1.2	1.2
V31	2-chloro-ethyl-vinyl-ether	<1.2	1.2

Huey-Chen Chow

 Huey-Chen Chow
 Chemist

March 5, 1990

 Date

ORGANIC ANALYSIS REPORT
Halogenated Volatile Organics, EPA Method 601

EUREKA LABORATORIES, INC.
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Order No: 90-02-109
 Hazardous Waste Testing
 Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
 PROJECT NAME: 98TH & EDES, PHASE 2
 JOB #: 272.016
 SAMPLE ID: 18

DATE RECEIVED : 02/15/1990
 DATE EXTRACTED: 02/22/1990
 DATE COMPLETED: 03/05/1990

COMP. No.	COMPOUND	ug/L (ppb)	DETECTION LIMIT ug/L (ppb)
V1	Bromodichloromethane	<500	500
V2	Bromoform	<500	500
V3	Bromomethane	<500	500
V4	Carbon tetrachloride	<500	500
V5	Chlorobenzene	<500	500
V6	Chloroethane	<500	500
V7	Chloroform	<500	500
V8	Chloromethane	<500	500
V9	Dibromochloromethane	<500	500
V10	Dibromomethane	<500	500
V11	1,2-Dichlorobenzene	<500	500
V12	1,3-Dichlorobenzene	<500	500
V13	1,4-Dichlorobenzene	<500	500
V14	1,1-Dichloroethane	<500	500
V15	1,2-Dichloroethane	<500	500
V16	1,1-Dichloroethylene (Vinylidene chloride)	<500	500
V17	trans-1,2-Dichloroethylene	<500	500
V18	Dichloromethane	<500	500
V19	1,2-Dichloropropane	<500	500
V20	cis-1,3-Dichloropropylene	<500	500
V21	trans-1,3-Dichloropropylene	<500	500
V22	1,1,2,2-Tetrachloroethane	<500	500
V23	1,1,1,2-Tetrachloroethane	<500	500
V24	Tetrachloroethylene	<500	500
V25	1,1,1-Trichloroethane	<500	500
V26	1,1,2-Trichloroethane	<500	500
V27	Trichloroethylene	<500	500
V28	Vinyl chloride	<500	500
V29	Dichlorodifluoromethane	<500	500
V30	Trichlorofluoromethane	<500	500
V31	2-chloro-ethyl-vinyl-ether	<500	500

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ORGANIC ANALYSIS REPORT
 Halogenated Volatile Organics, EPA Method 601

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Order No: 90-02-109
 Hazardous Waste Testing
 Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
 PROJECT NAME: 98TH & EDES, PHASE 2
 JOB #: 272.016
 SAMPLE ID: MW4

DATE RECEIVED : 02/15/1990
 DATE EXTRACTED: 02/22/1990
 DATE COMPLETED: 03/05/1990

COMP. No.	COMPOUND	ug/L (ppb)	DETECTION	
			LIMIT	ug/L (ppb)
V1	Bromodichloromethane	<0.5	0.5	
V2	Bromoform	<0.5	0.5	
V3	Bromomethane	<0.5	0.5	
V4	Carbon tetrachloride	<0.5	0.5	
V5	Chlorobenzene	<0.5	0.5	
V6	Chloroethane	<0.5	0.5	
V7	Chloroform	<0.5	0.5	
V8	Chloromethane	<0.5	0.5	
V9	Dibromochloromethane	<0.5	0.5	
V10	Dibromomethane	<0.5	0.5	
V11	1,2-Dichlorobenzene	<0.5	0.5	
V12	1,3-Dichlorobenzene	<0.5	0.5	
V13	1,4-Dichlorobenzene	<0.5	0.5	
V14	1,1-Dichloroethane	<0.5	0.5	
V15	1,2-Dichloroethane	<0.5	0.5	
V16	1,1-Dichloroethylene (Vinylidene chloride)	<0.5	0.5	
V17	trans-1,2-Dichloroethylene	<0.5	0.5	
V18	Dichloromethane	15.3	0.5	
V19	1,2-Dichloropropane	<0.5	0.5	
V20	cis-1,3-Dichloropropylene	<0.5	0.5	
V21	trans-1,3-Dichloropropylene	<0.5	0.5	
V22	1,1,2,2-Tetrachloroethane	<0.5	0.5	
V23	1,1,1,2-Tetrachloroethane	<0.5	0.5	
V24	Tetrachloroethylene	67.4	0.5	
V25	1,1,1-Trichloroethane	1.8	0.5	
V26	1,1,2-Trichloroethane	<0.5	0.5	
V27	Trichloroethylene	2.4	0.5	
V28	Vinyl chloride	<0.5	0.5	
V29	Dichlorodifluoromethane	<0.5	0.5	
V30	Trichlorofluoromethane	<0.5	0.5	
V31	2-chloro-ethyl-vinyl-ether	<0.5	0.5	

Huey-Chen Chow
 Huey-Chen Chow
 Chemist

March 5, 1990

Date

ORGANIC ANALYSIS REPORT
 Halogenated Volatile Organics, EPA Method 601

EUREKA LABORATORIES, INC.
 6790 Florin Perkins Road
 Sacramento, CA 95828
 (916) 381-7953

Order No: 90-02-109
 Hazardous Waste Testing
 Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
 PROJECT NAME: 98TH & EDES, PHASE 2
 JOB #: 272.016
 SAMPLE ID: MW5

DATE RECEIVED : 02/15/1990
 DATE EXTRACTED: 02/22/1990
 DATE COMPLETED: 03/05/1990

COMP. No.	COMPOUND	ug/L (ppb)	DETECTION LIMIT ug/L (ppb)
V1	Bromodichloromethane	<0.5	0.5
V2	Bromoform	<0.5	0.5
V3	Bromomethane	<0.5	0.5
V4	Carbon tetrachloride	<0.5	0.5
V5	Chlorobenzene	<0.5	0.5
V6	Chloroethane	<0.5	0.5
V7	Chloroform	<0.5	0.5
V8	Chloromethane	<0.5	0.5
V9	Dibromochloromethane	<0.5	0.5
V10	Dibromomethane	<0.5	0.5
V11	1,2-Dichlorobenzene	<0.5	0.5
V12	1,3-Dichlorobenzene	<0.5	0.5
V13	1,4-Dichlorobenzene	<0.5	0.5
V14	1,1-Dichloroethane	<0.5	0.5
V15	1,2-Dichloroethane	<0.5	0.5
V16	1,1-Dichloroethylene (Vinylidene chloride)	<0.5	0.5
V17	trans-1,2-Dichloroethylene	<0.5	0.5
V18	Dichloromethane	<0.5	0.5
V19	1,2-Dichloropropane	<0.5	0.5
V20	cis-1,3-Dichloropropylene	<0.5	0.5
V21	trans-1,3-Dichloropropylene	<0.5	0.5
V22	1,1,2,2-Tetrachloroethane	<0.5	0.5
V23	1,1,1,2-Tetrachloroethane	<0.5	0.5
V24	Tetrachloroethylene	1.4	0.5
V25	1,1,1-Trichloroethane	1.3	0.5
V26	1,1,2-Trichloroethane	<0.5	0.5
V27	Trichloroethylene	1.0	0.5
V28	Vinyl chloride	<0.5	0.5
V29	Dichlorodifluoromethane	<0.5	0.5
V30	Trichlorofluoromethane	<0.5	0.5
V31	2-chloro-ethyl-vinyl-ether	<0.5	0.5

Huey-Chen Chow

Huey-Chen Chow
 Chemist

March 5, 1990

Date

ORGANIC ANALYSIS REPORT
Halogenated Volatile Organics, EPA Method 601

EUREKA LABORATORIES, INC.
 6790 Florin Perkins Road
 Sacramento, CA 95828
 (916) 381-7953

Order No: 90-02-109
 Hazardous Waste Testing
 Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
 PROJECT NAME: 98TH & EDES, PHASE 2
 JOB #: 272.016
 SAMPLE ID: REAGENT SPIKE RECOVERY

DATE RECEIVED : 02/15/1990
 DATE EXTRACTED: 02/22/1990
 DATE COMPLETED: 03/05/1990

COMP. No.	COMPOUND		COMP No.	COMPOUND	
V1	Bromodichloromethane	-	V16	1,1-Dichloroethylene	107%
V2	Bromoform	94%		(Vinylidene chloride)	
V3	Bromomethane	-	V17	trans-1,2-Dichloroethylene	88%
V4	Carbon tetrachloride	98%	V18	Dichloromethane	-
V5	Chlorobenzene	96%	V19	1,2-Dichloropropane	93%
V6	Chloroethane	-	V20	cis-1,3-Dichloropropylene	99%
V7	Chloroform	99%	V21	trans-1,3-Dichloropropylene	107%
V8	Chloromethane	-	V22	1,1,2,2-Tetrachloroethane	104%
V9	Dibromochloromethane	91%	V23	1,1,1,2-Tetrachloroethane	-
V10	Dibromomethane	-	V24	Tetrachloroethylene	84%
V11	1,2-Dichlorobenzene	102%	V25	1,1,1-Trichloroethane	99%
V12	1,3-Dichlorobenzene	103%	V26	1,1,2-Trichloroethane	95%
V13	1,4-Dichlorobenzene	96%	V27	Trichloroethylene	95%
V14	1,1-Dichloroethane	98%	V28	Vinyl chloride	-
V15	1,2-Dichloroethane	85%	V29	Dichlorodifluoromethane	-
			V30	Trichlorofluoromethane	88%

Huey-Chen Chow
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March 5, 1990
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ORGANIC ANALYSIS REPORT
Halogenated Volatile Organics, EPA Method 601

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 6790 Florin Perkins Road
 Sacramento, CA 95828
 (916) 381-7953

Order No: 90-02-109
 Hazardous Waste Testing
 Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
 PROJECT NAME: 98TH & EDES, PHASE 2
 JOB #: 272.016
 SAMPLE ID: REAGENT SPIKE RECOVERY
 DUPLICATE

DATE RECEIVED : 02/15/1990
 DATE EXTRACTED: 02/22/1990
 DATE COMPLETED: 03/05/1990

COMP. No.	COMPOUND		COMP No.	COMPOUND	
V1	Bromodichloromethane	-	V16	1,1-Dichloroethylene	101%
V2	Bromoform	101%		(Vinylidene chloride)	
V3	Bromomethane	-	V17	trans-1,2-Dichloroethylene	100%
V4	Carbon tetrachloride	101%	V18	Dichloromethane	-
V5	Chlorobenzene	101%	V19	1,2-Dichloropropane	100%
V6	Chloroethane	-	V20	cis-1,3-Dichloropropylene	101%
V7	Chloroform	101%	V21	trans-1,3-Dichloropropylene	101%
V8	Chloromethane	-	V22	1,1,2,2-Tetrachloroethane	101%
V9	Dibromochloromethane	101%	V23	1,1,1,2-Tetrachloroethane	-
V10	Dibromomethane	-	V24	Tetrachloroethylene	100%
V11	1,2-Dichlorobenzene	100%	V25	1,1,1-Trichloroethane	100%
V12	1,3-Dichlorobenzene	101%	V26	1,1,2-Trichloroethane	101%
V13	1,4-Dichlorobenzene	100%	V27	Trichloroethylene	100%
V14	1,1-Dichloroethane	100%	V28	Vinyl chloride	-
V15	1,2-Dichloroethane	100%	V29	Dichlorodifluoromethane	-
			V30	Trichlorofluoromethane	101%

Huey-Chen Chow
 Huey-Chen Chow
 Chemist

March 5, 1990
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ORGANIC ANALYSIS REPORT
Aromatic Volatile Organics, EPA Method 602

EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: BLANK

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/22/1990
DATE COMPLETED: 03/05/1990

COMP. NO.	COMPOUND	ug/L (ppb)	DETECTION LIMIT ug/L (ppb)
V1	Benzene	<0.5	0.5
V2	Chlorobenzene	<0.5	0.5
V3	1,2-Dichlorobenzene	<0.5	0.5
V4	1,3-Dichlorobenzene	<0.5	0.5
V5	1,4-Dichlorobenzene	<0.5	0.5
V6	Ethyl benzene	<0.5	0.5
V7	Toluene	<0.5	0.5
V8	Xylenes (Dimethyl benzenes)	<0.5	0.5

Huey-Chen Chow
Huey-Chen Chow March 5, 1990
Chemist Date

ORGANIC ANALYSIS REPORT
Aromatic Volatile Organics, EPA Method 602

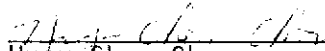
EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: MW4

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/22/1990
DATE COMPLETED: 03/05/1990

COMP. NO.	COMPOUND	ug/L (ppb)	DETECTION LIMIT ug/L (ppb)
V1	Benzene	<0.5	0.5
V2	Chlorobenzene	<0.5	0.5
V3	1,2-Dichlorobenzene	<0.5	0.5
V4	1,3-Dichlorobenzene	<0.5	0.5
V5	1,4-Dichlorobenzene	<0.5	0.5
V6	Ethyl benzene	<0.5	0.5
V7	Toluene	<0.5	0.5
V8	Xylenes (Dimethyl benzenes)	<0.5	0.5


Huey Chen Chow March 5, 1990
Chemist Date

ORGANIC ANALYSIS REPORT
Aromatic Volatile Organics, EPA Method 602

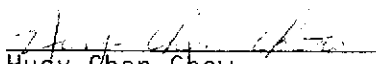
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(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: MW5

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/22/1990
DATE COMPLETED: 03/05/1990

COMP. NO.	COMPOUND	ug/L (ppb)	DETECTION LIMIT ug/L (ppb)
V1	Benzene	<0.5	0.5
V2	Chlorobenzene	<0.5	0.5
V3	1,2-Dichlorobenzene	<0.5	0.5
V4	1,3-Dichlorobenzene	<0.5	0.5
V5	1,4-Dichlorobenzene	<0.5	0.5
V6	Ethyl benzene	<0.5	0.5
V7	Toluene	<0.5	0.5
V8	Xylenes (Dimethyl benzenes)	<0.5	0.5


Huey-Chen Chow March 5, 1990
Chemist Date

ORGANIC ANALYSIS REPORT
Aromatic Volatile Organics, EPA Method 602

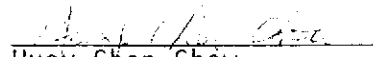
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6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: MW1

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/22/1990
DATE COMPLETED: 03/05/1990

COMP. NO.	COMPOUND	ug/L (ppb)	DETECTION LIMIT ug/L (ppb)
V1	Benzene	60.8	1.2
V2	Chlorobenzene	<1.2	1.2
V3	1,2-Dichlorobenzene	<1.2	1.2
V4	1,3-Dichlorobenzene	<1.2	1.2
V5	1,4-Dichlorobenzene	<1.2	1.2
V6	Ethyl benzene	<1.2	1.2
V7	Toluene	11.9	1.2
V8	Xylenes (Dimethyl benzenes)	19.9	1.2


Huey-Chen Chow March 5, 1990
Chemist Date

ORGANIC ANALYSIS REPORT
Aromatic Volatile Organics, EPA Method 602

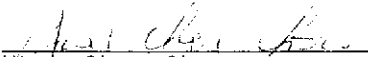
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6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: MW2

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/22/1990
DATE COMPLETED: 03/05/1990

COMP. NO.	COMPOUND	ug/L (ppb)	DETECTION LIMIT ug/L (ppb)
V1	Benzene	<1.2	1.2
V2	Chlorobenzene	<1.2	1.2
V3	1,2-Dichlorobenzene	<1.2	1.2
V4	1,3-Dichlorobenzene	<1.2	1.2
V5	1,4-Dichlorobenzene	<1.2	1.2
V6	Ethyl benzene	1.3	1.2
V7	Toluene	<1.2	1.2
V8	Xylenes (Dimethyl benzenes)	4.0	1.2


Huey-Chen Chow March 5, 1990
Chemist Date

ORGANIC ANALYSIS REPORT
Aromatic Volatile Organics, EPA Method 602

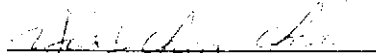
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6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: MW3

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/22/1990
DATE COMPLETED: 03/05/1990

COMP. NO.	COMPOUND	ug/L (ppb)	DETECTION LIMIT ug/L (ppb)
V1	Benzene	<1.2	1.2
V2	Chlorobenzene	<1.2	1.2
V3	1,2-Dichlorobenzene	<1.2	1.2
V4	1,3-Dichlorobenzene	<1.2	1.2
V5	1,4-Dichlorobenzene	<1.2	1.2
V6	Ethyl benzene	<1.2	1.2
V7	Toluene	<1.2	1.2
V8	Xylenes (Dimethyl benzenes)	2.9	1.2


Huey-Chen Chow
Chemist

March 5, 1990
Date

ORGANIC ANALYSIS REPORT
Aromatic Volatile Organics, EPA Method 602


EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: 18

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/22/1990
DATE COMPLETED: 03/05/1990

COMP. NO.	COMPOUND	ug/L (ppb)	DETECTION LIMIT ug/L (ppb)
V1	Benzene	3730	500
V2	Chlorobenzene	<500	500
V3	1,2-Dichlorobenzene	<500	500
V4	1,3-Dichlorobenzene	<500	500
V5	1,4-Dichlorobenzene	<500	500
V6	Ethyl benzene	5430	500
V7	Toluene	8920	500
V8	Xylenes (Dimethyl benzenes)	22500	500


Huey-Chen Chow
Chemist

March 5, 1990
Date

ORGANIC ANALYSIS REPORT
Aromatic Volatile Organics, EPA Method 602

EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

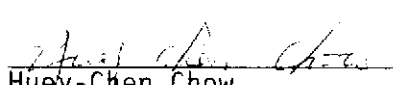
Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: REAGENT SPIKE RECOVERY
DUPLICATE

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/22/1990
DATE COMPLETED: 03/05/1990

<u>COMP.</u> <u>NO.</u>	<u>COMPOUND</u>	<u>SPIKE RECOVERY</u>
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V1	Benzene	93%
V2	Chlorobenzene	95%
V3	1,2-Dichlorobenzene	95%
V4	1,3-Dichlorobenzene	93%
V5	1,4-Dichlorobenzene	95%
V6	Ethyl benzene	95%
V7	Toluene	95%
V8	Xylenes (Dimethyl benzenes)	95%


Huey-Chen Chow
Chemist

March 5, 1990
Date

ORGANIC ANALYSIS REPORT
Halogenated Volatile Organics, EPA Method 8010

EUREKA LABORATORIES, INC.
 6790 Florin Perkins Road
 Sacramento, CA 95828
 (916) 381-7953

Order No: 90-02-109
 Hazardous Waste Testing
 Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
 PROJECT NAME: 98TH & EDES, PHASE 2
 JOB #: 272.016
 SAMPLE ID: BLANK

DATE RECEIVED : 02/15/1990
 DATE EXTRACTED: 02/22/1990
 DATE COMPLETED: 03/05/1990

COMP. No.	COMPOUND	ug/Kg (ppb)	DETECTION	
			LIMIT	ug/Kg (ppb)
V1	Bromodichloromethane	<1		1
V2	Bromoform	<1		1
V3	Bromomethane	<1		1
V4	Carbon tetrachloride	<1		1
V5	Chlorobenzene	<1		1
V6	Chloroethane	<1		1
V7	Chloroform	<1		1
V8	Chloromethane	<1		1
V9	Dibromochloromethane	<1		1
V10	Dibromomethane	<1		1
V11	1,2-Dichlorobenzene	<1		1
V12	1,3-Dichlorobenzene	<1		1
V13	1,4-Dichlorobenzene	<1		1
V14	1,1-Dichloroethane	<1		1
V15	1,2-Dichloroethane	<1		1
V16	1,1-Dichloroethylene (Vinylidene chloride)	<1		1
V17	trans-1,2-Dichloroethylene	<1		1
V18	Dichloromethane	<1		1
V19	1,2-Dichloropropane	<1		1
V20	cis-1,3-Dichloropropylene	<1		1
V21	trans-1,3-Dichloropropylene	<1		1
V22	1,1,2,2-Tetrachloroethane	<1		1
V23	1,1,1,2-Tetrachloroethane	<1		1
V24	Tetrachloroethylene	<1		1
V25	1,1,1-Trichloroethane	<1		1
V26	1,1,2-Trichloroethane	<1		1
V27	Trichloroethylene	<1		1
V28	Vinyl chloride	<1		1
V29	Dichlorodifluoromethane	<1		1
V30	Trichlorofluoromethane	<1		1

Huey Chen Chow
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 Chemist

March 5, 1990
 Date

ORGANIC ANALYSIS REPORT
 Halogenated Volatile Organics, EPA Method 8010

EUREKA LABORATORIES, INC.
 6790 Florin Perkins Road
 Sacramento, CA 95828
 (916) 381-7953

Order No: 90-02-109
 Hazardous Waste Testing
 Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
 PROJECT NAME: 98TH & EDES, PHASE 2
 JOB #: 272.016
 SAMPLE ID: MW2 @ 9'

DATE RECEIVED : 02/15/1990
 DATE EXTRACTED: 02/22/1990
 DATE COMPLETED: 03/05/1990

COMP. No.	COMPOUND	ug/Kg (ppb)	DETECTION	
			LIMIT	ug/Kg (ppb)
V1	Bromodichloromethane	<10	10	
V2	Bromoform	<10	10	
V3	Bromomethane	<10	10	
V4	Carbon tetrachloride	<10	10	
V5	Chlorobenzene	<10	10	
V6	Chloroethane	<10	10	
V7	Chloroform	<10	10	
V8	Chloromethane	<10	10	
V9	Dibromochloromethane	<10	10	
V10	Dibromomethane	<10	10	
V11	1,2-Dichlorobenzene	<10	10	
V12	1,3-Dichlorobenzene	<10	10	
V13	1,4-Dichlorobenzene	<10	10	
V14	1,1-Dichloroethane	<10	10	
V15	1,2-Dichloroethane	<10	10	
V16	1,1-Dichloroethylene (Vinylidene chloride)	<10	10	
V17	trans-1,2-Dichloroethylene	<10	10	
V18	Dichloromethane	<10	10	
V19	1,2-Dichloropropane	<10	10	
V20	cis-1,3-Dichloropropylene	<10	10	
V21	trans-1,3-Dichloropropylene	<10	10	
V22	1,1,2,2-Tetrachloroethane	<10	10	
V23	1,1,1,2-Tetrachloroethane	<10	10	
V24	Tetrachloroethylene	<10	10	
V25	1,1,1-Trichloroethane	<10	10	
V26	1,1,2-Trichloroethane	<10	10	
V27	Trichloroethylene	<10	10	
V28	Vinyl chloride	<10	10	
V29	Dichlorodifluoromethane	<10	10	
V30	Trichlorofluoromethane	<10	10	

Huey-Chen Chow

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 Chemist

March 5, 1990

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ORGANIC ANALYSIS REPORT
 Halogenated Volatile Organics, EPA Method 8010

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 6790 Florin Perkins Road
 Sacramento, CA 95828
 (916) 381-7953

Order No: 90-02-109
 Hazardous Waste Testing
 Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
 PROJECT NAME: 98TH & EDES, PHASE 2
 JOB #: 272.016
 SAMPLE ID: REAGENT SPIKE RECOVERY

DATE RECEIVED : 02/15/1990
 DATE EXTRACTED: 02/22/1990
 DATE COMPLETED: 03/05/1990

COMP. No.	COMPOUND		COMP No.	COMPOUND	
V1	Bromodichloromethane	104%	V16	1,1-Dichloroethylene	111%
V2	Bromoform	108%		(Vinylidene chloride)	
V3	Bromomethane	-	V17	trans-1,2-Dichloroethylene	102%
V4	Carbon tetrachloride	-	V18	Dichloromethane	99%
V5	Chlorobenzene	-	V19	1,2-Dichloropropane	100%
V6	Chloroethane	-	V20	cis-1,3-Dichloropropylene	105%
V7	Chloroform	107%	V21	trans-1,3-Dichloropropylene	115%
V8	Chloromethane	-	V22	1,1,2,2-Tetrachloroethane	110%
V9	Dibromochloromethane	107%	V23	1,1,1,2-Tetrachloroethane	-
V10	Dibromomethane	-	V24	Tetrachloroethylene	102%
V11	1,2-Dichlorobenzene	104%	V25	1,1,1-Trichloroethane	104%
V12	1,3-Dichlorobenzene	107%	V26	1,1,2-Trichloroethane	107%
V13	1,4-Dichlorobenzene	105%	V27	Trichloroethylene	102%
V14	1,1-Dichloroethane	105%	V28	Vinyl chloride	-
V15	1,2-Dichloroethane	98%	V29	Dichlorodifluoromethane	-
			V30	Trichlorofluoromethane	105%

Huey-Chen Chow
 Huey-Chen Chow
 Chemist

March 5, 1990
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ORGANIC ANALYSIS REPORT
 Halogenated Volatile Organics, EPA Method 8010

EUREKA LABORATORIES, INC.
 6790 Florin Perkins Road
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Order No: 90-02-109
 Hazardous Waste Testing
 Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
 PROJECT NAME: 98TH & EDES, PHASE 2
 JOB #: 272.016
 SAMPLE ID: REAGENT SPIKE RECOVERY
 DUPLICATE

DATE RECEIVED : 02/15/1990
 DATE EXTRACTED: 02/22/1990
 DATE COMPLETED: 03/05/1990

COMP. No.	COMPOUND		COMP No.	COMPOUND	
V1	Bromodichloromethane	97%	V16	1,1-Dichloroethylene	92%
V2	Bromoform	94%		(Vinylidene chloride)	
V3	Bromomethane	-	V17	trans-1,2-Dichloroethylene	99%
V4	Carbon tetrachloride	-	V18	Dichloromethane	100%
V5	Chlorobenzene	-	V19	1,2-Dichloropropane	100%
V6	Chloroethane	-	V20	cis-1,3-Dichloropropylene	96%
V7	Chloroform	95%	V21	trans-1,3-Dichloropropylene	91%
V8	Chloromethane	-	V22	1,1,2,2-Tetrachloroethane	93%
V9	Dibromochloromethane	95%	V23	1,1,1,2-Tetrachloroethane	-
V10	Dibromomethane	-	V24	Tetrachloroethylene	98%
V11	1,2-Dichlorobenzene	97%	V25	1,1,1-Trichloroethane	97%
V12	1,3-Dichlorobenzene	95%	V26	1,1,2-Trichloroethane	95%
V13	1,4-Dichlorobenzene	97%	V27	Trichloroethylene	99%
V14	1,1-Dichloroethane	97%	V28	Vinyl chloride	-
V15	1,2-Dichloroethane	101%	V29	Dichlorodifluoromethane	-
			V30	Trichlorofluoromethane	96%

Huey-Chen Chow
 Huey-Chen Chow
 Chemist

March 5, 1990
 Date

ORGANIC ANALYSIS REPORT
Aromatic Volatile Organics, EPA Method 8020


EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: BLANK

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/22/1990
DATE COMPLETED: 03/05/1990

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
V1	Benzene	<1	1
V2	Chlorobenzene	<1	1
V3	1,2-Dichlorobenzene	<1	1
V4	1,3-Dichlorobenzene	<1	1
V5	1,4-Dichlorobenzene	<1	1
V6	Ethyl Benzene	<1	1
V7	Toluene	<1	1
V8	Xylenes (Dimethyl benzenes)	<1	1



Huey-Chen Chow
Chemist

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Aromatic Volatile Organics, EPA Method 8020

EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: 17 @ 11.5'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/22/1990
DATE COMPLETED: 03/05/1990

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
V1	Benzene	<1	1
V2	Chlorobenzene	<1	1
V3	1,2-Dichlorobenzene	<1	1
V4	1,3-Dichlorobenzene	<1	1
V5	1,4-Dichlorobenzene	<1	1
V6	Ethyl Benzene	38	1
V7	Toluene	7	1
V8	Xylenes (Dimethyl benzenes)	135	1

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Aromatic Volatile Organics, EPA Method 8020

EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: 18 @ 8'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/22/1990
DATE COMPLETED: 03/05/1990

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
V1	Benzene	<1	1
V2	Chlorobenzene	<1	1
V3	1,2-Dichlorobenzene	<1	1
V4	1,3-Dichlorobenzene	<1	1
V5	1,4-Dichlorobenzene	<1	1
V6	Ethyl Benzene	3	1
V7	Toluene	8	1
V8	Xylenes (Dimethyl benzenes)	12	1

Huey-Chen Chow
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(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: 19 @ 10'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/22/1990
DATE COMPLETED: 03/05/1990

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
V1	Benzene	<1	1
V2	Chlorobenzene	<1	1
V3	1,2-Dichlorobenzene	<1	1
V4	1,3-Dichlorobenzene	<1	1
V5	1,4-Dichlorobenzene	<1	1
V6	Ethyl Benzene	<1	1
V7	Toluene	7	1
V8	Xylenes (Dimethyl benzenes)	<1	1

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Aromatic Volatile Organics, EPA Method 8020

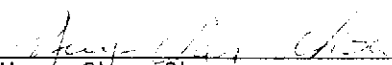
EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
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(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: 20 @ 9'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/22/1990
DATE COMPLETED: 03/05/1990

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
V1	Benzene	<1	1
V2	Chlorobenzene	<1	1
V3	1,2-Dichlorobenzene	<1	1
V4	1,3-Dichlorobenzene	<1	1
V5	1,4-Dichlorobenzene	<1	1
V6	Ethyl Benzene	3	1
V7	Toluene	7	1
V8	Xylenes (Dimethyl benzenes)	11	1



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Aromatic Volatile Organics, EPA Method 8020

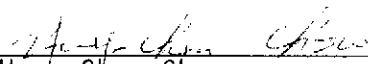
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6790 Florin Perkins Road
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Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: 21 @ 7.5'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/22/1990
DATE COMPLETED: 03/05/1990

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
V1	Benzene	<1	1
V2	Chlorobenzene	<1	1
V3	1,2-Dichlorobenzene	<1	1
V4	1,3-Dichlorobenzene	<1	1
V5	1,4-Dichlorobenzene	<1	1
V6	Ethyl Benzene	7	1
V7	Toluene	5	1
V8	Xylenes (Dimethyl benzenes)	16	1



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Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: 21 @ 13'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/22/1990
DATE COMPLETED: 03/05/1990

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
V1	Benzene	<1	1
V2	Chlorobenzene	<1	1
V3	1,2-Dichlorobenzene	<1	1
V4	1,3-Dichlorobenzene	<1	1
V5	1,4-Dichlorobenzene	<1	1
V6	Ethyl Benzene	24	1
V7	Toluene	17	1
V8	Xylenes (Dimethyl benzenes)	79	1

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Aromatic Volatile Organics, EPA Method 8020

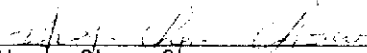
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Order No: 90-02-109
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Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: MW4 @ 13.5'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/22/1990
DATE COMPLETED: 03/05/1990

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
V1	Benzene	<1	1
V2	Chlorobenzene	<1	1
V3	1,2-Dichlorobenzene	<1	1
V4	1,3-Dichlorobenzene	<1	1
V5	1,4-Dichlorobenzene	<1	1
V6	Ethyl Benzene	<1	1
V7	Toluene	<1	1
V8	Xylenes (Dimethyl benzenes)	<1	1



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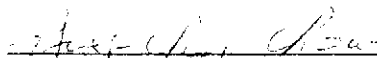
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Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: MW5 @ 9'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/22/1990
DATE COMPLETED: 03/05/1990

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
V1	Benzene	<1	1
V2	Chlorobenzene	<1	1
V3	1,2-Dichlorobenzene	<1	1
V4	1,3-Dichlorobenzene	<1	1
V5	1,4-Dichlorobenzene	<1	1
V6	Ethyl Benzene	<1	1
V7	Toluene	<1	1
V8	Xylenes (Dimethyl benzenes)	<1	1



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Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: MW2 @ 9'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/22/1990
DATE COMPLETED: 03/05/1990

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
V1	Benzene	<10	10
V2	Chlorobenzene	<10	10
V3	1,2-Dichlorobenzene	<10	10
V4	1,3-Dichlorobenzene	<10	10
V5	1,4-Dichlorobenzene	<10	10
V6	Ethyl Benzene	810	10
V7	Toluene	355	10
V8	Xylenes (Dimethyl benzenes)	3980	10


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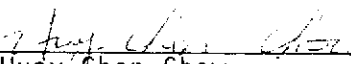
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Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: MW5 @ 11'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/22/1990
DATE COMPLETED: 03/05/1990

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
V1	Benzene	<1	1
V2	Chlorobenzene	<1	1
V3	1,2-Dichlorobenzene	<1	1
V4	1,3-Dichlorobenzene	<1	1
V5	1,4-Dichlorobenzene	<1	1
V6	Ethyl Benzene	<1	1
V7	Toluene	3	1
V8	Xylenes (Dimethyl benzenes)	<1	1



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Sacramento, CA 95828
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Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: 15 @ 6'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/22/1990
DATE COMPLETED: 03/05/1990

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
V1	Benzene	<1	1
V2	Chlorobenzene	<1	1
V3	1,2-Dichlorobenzene	<1	1
V4	1,3-Dichlorobenzene	<1	1
V5	1,4-Dichlorobenzene	<1	1
V6	Ethyl Benzene	4	1
V7	Toluene	3	1
V8	Xylenes (Dimethyl benzenes)	6	1

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Chemist

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Date

ORGANIC ANALYSIS REPORT
Aromatic Volatile Organics, EPA Method 8020

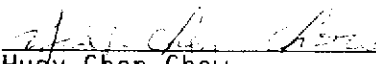
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6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: 16 @ 4'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/22/1990
DATE COMPLETED: 03/05/1990

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
V1	Benzene	<1	1
V2	Chlorobenzene	<1	1
V3	1,2-Dichlorobenzene	<1	1
V4	1,3-Dichlorobenzene	<1	1
V5	1,4-Dichlorobenzene	<1	1
V6	Ethyl Benzene	<1	1
V7	Toluene	79	1
V8	Xylenes (Dimethyl benzenes)	5	1



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Date

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Aromatic Volatile Organics, EPA Method 8020

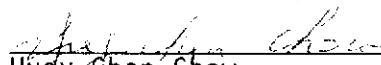
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6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: 17 @ 8.5'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/22/1990
DATE COMPLETED: 03/05/1990

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
V1	Benzene	<1	1
V2	Chlorobenzene	<1	1
V3	1,2-Dichlorobenzene	<1	1
V4	1,3-Dichlorobenzene	<1	1
V5	1,4-Dichlorobenzene	<1	1
V6	Ethyl Benzene	<1	1
V7	Toluene	7	1
V8	Xylenes (Dimethyl benzenes)	<1	1



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Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: MW1 @ 8'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/22/1990
DATE COMPLETED: 03/05/1990

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
V1	Benzene	329	1
V2	Chlorobenzene	<1	1
V3	1,2-Dichlorobenzene	<1	1
V4	1,3-Dichlorobenzene	<1	1
V5	1,4-Dichlorobenzene	<1	1
V6	Ethyl Benzene	70	1
V7	Toluene	7	1
V8	Xylenes (Dimethyl benzenes)	130	1

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(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: MW1 @ 12'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/22/1990
DATE COMPLETED: 03/05/1990

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
V1	Benzene	72	1
V2	Chlorobenzene	<1	1
V3	1,2-Dichlorobenzene	<1	1
V4	1,3-Dichlorobenzene	<1	1
V5	1,4-Dichlorobenzene	<1	1
V6	Ethyl Benzene	6	1
V7	Toluene	4	1
V8	Xylenes (Dimethyl benzenes)	2	1



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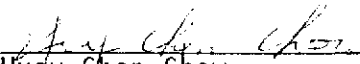
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Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: MW2 @ 6'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/22/1990
DATE COMPLETED: 03/05/1990

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
V1	Benzene	<1	1
V2	Chlorobenzene	<1	1
V3	1,2-Dichlorobenzene	<1	1
V4	1,3-Dichlorobenzene	<1	1
V5	1,4-Dichlorobenzene	<1	1
V6	Ethyl Benzene	<1	1
V7	Toluene	<1	1
V8	Xylenes (Dimethyl benzenes)	<1	1



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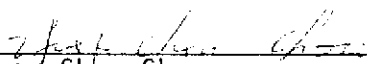
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Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: MW3 @ 6'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/22/1990
DATE COMPLETED: 03/05/1990

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
V1	Benzene	<1	1
V2	Chlorobenzene	<1	1
V3	1,2-Dichlorobenzene	<1	1
V4	1,3-Dichlorobenzene	<1	1
V5	1,4-Dichlorobenzene	<1	1
V6	Ethyl Benzene	<1	1
V7	Toluene	<1	1
V8	Xylenes (Dimethyl benzenes)	<1	1



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Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: MW4 @ 4.5'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/22/1990
DATE COMPLETED: 03/05/1990

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
V1	Benzene	<1	1
V2	Chlorobenzene	<1	1
V3	1,2-Dichlorobenzene	<1	1
V4	1,3-Dichlorobenzene	<1	1
V5	1,4-Dichlorobenzene	<1	1
V6	Ethyl Benzene	<1	1
V7	Toluene	<1	1
V8	Xylenes (Dimethyl benzenes)	<1	1

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Chemist

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Aromatic Volatile Organics, EPA Method 8020

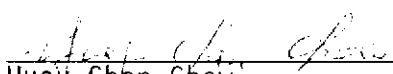
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Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: MW4 @ 10.5'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/22/1990
DATE COMPLETED: 03/05/1990

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
V1	Benzene	<1	1
V2	Chlorobenzene	<1	1
V3	1,2-Dichlorobenzene	<1	1
V4	1,3-Dichlorobenzene	<1	1
V5	1,4-Dichlorobenzene	<1	1
V6	Ethyl Benzene	<1	1
V7	Toluene	<1	1
V8	Xylenes (Dimethyl benzenes)	<1	1



Huey-Chen Chow
Chemist

March 5, 1990
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Aromatic Volatile Organics, EPA Method 8020

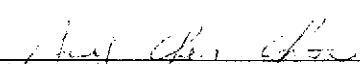
EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: 17 @ 10'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/22/1990
DATE COMPLETED: 03/05/1990

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
V1	Benzene	<2.5	2.5
V2	Chlorobenzene	<2.5	2.5
V3	1,2-Dichlorobenzene	<2.5	2.5
V4	1,3-Dichlorobenzene	<2.5	2.5
V5	1,4-Dichlorobenzene	<2.5	2.5
V6	Ethyl Benzene	108	2.5
V7	Toluene	37	2.5
V8	Xylenes (Dimethyl benzenes)	444	2.5



Huey-Chen Chow
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Aromatic Volatile Organics, EPA Method 8020

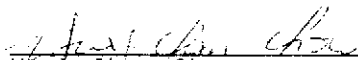
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(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: MW2 @ 12'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/22/1990
DATE COMPLETED: 03/05/1990

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
V1	Benzene	<5	5
V2	Chlorobenzene	<5	5
V3	1,2-Dichlorobenzene	<5	5
V4	1,3-Dichlorobenzene	<5	5
V5	1,4-Dichlorobenzene	<5	5
V6	Ethyl Benzene	740	5
V7	Toluene	<5	5
V8	Xylenes (Dimethyl benzenes)	3740	5



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Aromatic Volatile Organics, EPA Method 8020

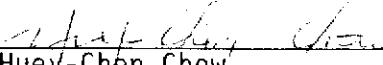
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(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: 18 @ 9.5'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/22/1990
DATE COMPLETED: 03/05/1990

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
V1	Benzene	333	25
V2	Chlorobenzene	<25	25
V3	1,2-Dichlorobenzene	<25	25
V4	1,3-Dichlorobenzene	<25	25
V5	1,4-Dichlorobenzene	<25	25
V6	Ethyl Benzene	2630	25
V7	Toluene	1390	25
V8	Xylenes (Dimethyl benzenes)	11500	25



Huey-Chen Chow
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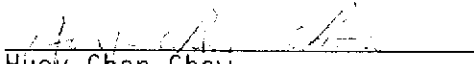
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Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: 18 @ 11.5'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/22/1990
DATE COMPLETED: 03/05/1990

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
V1	Benzene	122	5
V2	Chlorobenzene	<5	5
V3	1,2-Dichlorobenzene	<5	5
V4	1,3-Dichlorobenzene	<5	5
V5	1,4-Dichlorobenzene	<5	5
V6	Ethyl Benzene	552	5
V7	Toluene	236	5
V8	Xylenes (Dimethyl benzenes)	1530	5



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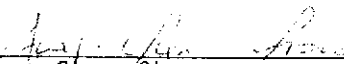
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Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: 21 @ 9.5'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/22/1990
DATE COMPLETED: 03/05/1990

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
V1	Benzene	<10	10
V2	Chlorobenzene	<10	10
V3	1,2-Dichlorobenzene	<10	10
V4	1,3-Dichlorobenzene	<10	10
V5	1,4-Dichlorobenzene	<10	10
V6	Ethyl Benzene	280	10
V7	Toluene	72	10
V8	Xylenes (Dimethyl benzenes)	970	10



Huey-Chen Chow
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Aromatic Volatile Organics, EPA Method 8020

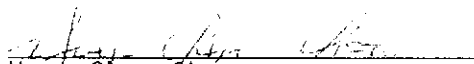
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Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: 21 @ 11.5'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/22/1990
DATE COMPLETED: 03/05/1990

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
V1	Benzene	<10	10
V2	Chlorobenzene	<10	10
V3	1,2-Dichlorobenzene	<10	10
V4	1,3-Dichlorobenzene	<10	10
V5	1,4-Dichlorobenzene	<10	10
V6	Ethyl Benzene	730	10
V7	Toluene	860	10
V8	Xylenes (Dimethyl benzenes)	2370	10


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Aromatic Volatile Organics, EPA Method 8020

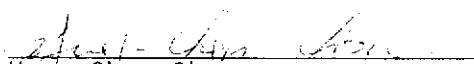
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Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: 15 @ 9.5'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/22/1990
DATE COMPLETED: 03/05/1990

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
V1	Benzene	750	50
V2	Chlorobenzene	<50	50
V3	1,2-Dichlorobenzene	<50	50
V4	1,3-Dichlorobenzene	<50	50
V5	1,4-Dichlorobenzene	<50	50
V6	Ethyl Benzene	9250	50
V7	Toluene	8320	50
V8	Xylenes (Dimethyl benzenes)	49000	50


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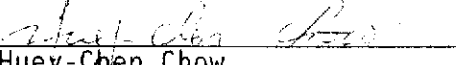
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Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: 15 @ 10.5'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/22/1990
DATE COMPLETED: 03/05/1990

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
V1	Benzene	39100	125
V2	Chlorobenzene	<125	125
V3	1,2-Dichlorobenzene	<125	125
V4	1,3-Dichlorobenzene	<125	125
V5	1,4-Dichlorobenzene	<125	125
V6	Ethyl Benzene	96200	125
V7	Toluene	260000	125
V8	Xylenes (Dimethyl benzenes)	519000	125



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Aromatic Volatile Organics, EPA Method 8020

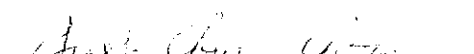
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Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: 16 @ 7'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/22/1990
DATE COMPLETED: 03/05/1990

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
V1	Benzene	400	10
V2	Chlorobenzene	<10	10
V3	1,2-Dichlorobenzene	<10	10
V4	1,3-Dichlorobenzene	<10	10
V5	1,4-Dichlorobenzene	<10	10
V6	Ethyl Benzene	1430	10
V7	Toluene	2130	10
V8	Xylenes (Dimethyl benzenes)	8060	10


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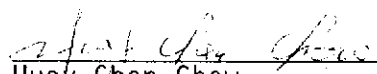
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Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS DATE RECEIVED : 02/15/1990
PROJECT NAME: 98TH & EDES, PHASE 2 DATE EXTRACTED: 02/22/1990
JOB #: 272.016 DATE COMPLETED: 03/05/1990
SAMPLE ID: 16 @ 11.5'

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
V1	Benzene	13100	50
V2	Chlorobenzene	<50	50
V3	1,2-Dichlorobenzene	<50	50
V4	1,3-Dichlorobenzene	<50	50
V5	1,4-Dichlorobenzene	<50	50
V6	Ethyl Benzene	25300	50
V7	Toluene	81900	50
V8	Xylenes (Dimethyl benzenes)	146000	50



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Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: MW1 @ 10.5'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/22/1990
DATE COMPLETED: 03/05/1990

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
V1	Benzene	1690	50
V2	Chlorobenzene	<50	50
V3	1,2-Dichlorobenzene	<50	50
V4	1,3-Dichlorobenzene	<50	50
V5	1,4-Dichlorobenzene	<50	50
V6	Ethyl Benzene	9470	50
V7	Toluene	12800	50
V8	Xylenes (Dimethyl benzenes)	48300	50


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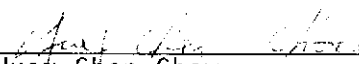
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Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: MW3 @ 9'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/22/1990
DATE COMPLETED: 03/05/1990

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
V1	Benzene	<50	50
V2	Chlorobenzene	<50	50
V3	1,2-Dichlorobenzene	<50	50
V4	1,3-Dichlorobenzene	<50	50
V5	1,4-Dichlorobenzene	<50	50
V6	Ethyl Benzene	1990	50
V7	Toluene	<50	50
V8	Xylenes (Dimethyl benzenes)	10200	50



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Chemist

March 5, 1990
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Aromatic Volatile Organics, EPA Method 8020

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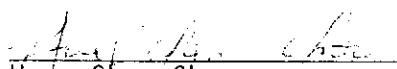
Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: MATRIX SPIKE RECOVERY

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/22/1990
DATE COMPLETED: 03/05/1990

<u>COMP.</u> <u>NO.</u>	<u>COMPOUND</u>	<u>SPIKE RECOVERY</u>
----------------------------	-----------------	-----------------------

V1	Benzene	110%
V2	Chlorobenzene	117%
V3	1,2-Dichlorobenzene	-
V4	1,3-Dichlorobenzene	122%
V5	1,4-Dichlorobenzene	126%
V6	Ethyl benzene	123%
V7	Toluene	134%
V8	Xylenes (Dimethyl benzenes)	127%


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Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: MATRIX SPIKE RECOVERY
DUPLICATE

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/22/1990
DATE COMPLETED: 03/05/1990

<u>COMP.</u> <u>NO.</u>	<u>COMPOUND</u>	<u>SPIKE RECOVERY</u>
V1	Benzene	95%
V2	Chlorobenzene	98%
V3	1,2-Dichlorobenzene	-
V4	1,3-Dichlorobenzene	104%
V5	1,4-Dichlorobenzene	108%
V6	Ethyl benzene	103%
V7	Toluene	101%
V8	Xylenes (Dimethyl benzenes)	106%

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Huey-Chen Chow
Chemist

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Aromatic Volatile Organics, EPA Method 8020

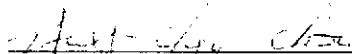
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Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: REAGENT SPIKE RECOVERY

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/22/1990
DATE COMPLETED: 03/05/1990

<u>COMP.</u> <u>NO.</u>	<u>COMPOUND</u>	<u>SPIKE RECOVERY</u>
V1	Benzene	94%
V2	Chlorobenzene	98%
V3	1,2-Dichlorobenzene	112%
V4	1,3-Dichlorobenzene	107%
V5	1,4-Dichlorobenzene	109%
V6	Ethyl benzene	100%
V7	Toluene	101%
V8	Xylenes (Dimethyl benzenes)	104%


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Chemist

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Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: REAGENT SPIKE RECOVERY
DUPLICATE

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/22/1990
DATE COMPLETED: 03/05/1990

<u>COMP.</u> <u>NO.</u>	<u>COMPOUND</u>	<u>SPIKE RECOVERY</u>
V1	Benzene	97%
V2	Chlorobenzene	102%
V3	1,2-Dichlorobenzene	119%
V4	1,3-Dichlorobenzene	106%
V5	1,4-Dichlorobenzene	119%
V6	Ethyl benzene	102%
V7	Toluene	102%
V8	Xylenes (Dimethyl benzenes)	105%


Huey Chen Chow
Chemist

March 5, 1990
Date

TOTAL PETROLEUM HYDROCARBONS
MODIFIED EPA METHOD 8015

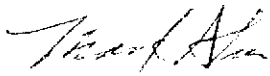
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Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: BLANK

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/20/1990
DATE COMPLETED: 02/27/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> [mg/kg (ppm)]	<u>DETECTION LIMIT</u> [mg/kg (ppm)]
Gasoline Range	<5	5
Diesel Range	<10	10
Motor Oil Range	<25	25
Total Petroleum Hydrocarbons	-	-
<u>CARBON NO. RANGE</u>		
Gasoline Range	-	-
Diesel Range	-	-
Motor Oil Range	-	-
<u>PEAK CARBON NO</u>		
Gasoline Range	-	-
Diesel Range	-	-
Motor Oil Range	-	-


Mark Shih Ph.D.
Chemist

March 5, 1990
Date

TOTAL PETROLEUM HYDROCARBONS
MODIFIED EPA METHOD 8015

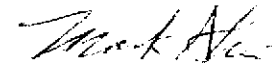
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Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: 18 @ 9.5'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/20/1990
DATE COMPLETED: 02/27/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> [mg/kg (ppm)]	<u>DETECTION LIMIT</u> [mg/kg (ppm)]
Gasoline Range	138	5
Diesel Range	<10	10
Motor Oil Range	<25	25
Total Petroleum Hydrocarbons	138	-
<u>CARBON NO. RANGE</u>		
Gasoline Range	C9-C12	-
Diesel Range	-	-
Motor Oil Range	-	-
<u>PEAK CARBON NO</u>		
Gasoline Range	C10	-
Diesel Range	-	-
Motor Oil Range	-	-



Mark Shih Ph.D.
Chemist

March 5, 1990
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TOTAL PETROLEUM HYDROCARBONS
MODIFIED EPA METHOD 8015

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(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: 21 @ 9.5'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/20/1990
DATE COMPLETED: 02/27/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> [mg/kg (ppm)]	<u>DETECTION LIMIT</u> [mg/kg (ppm)]
Gasoline Range	16	5
Diesel Range	<10	10
Motor Oil Range	<25	25
Total Petroleum Hydrocarbons	16	-

CARBON NO. RANGE

Gasoline Range	C9-C12	-
Diesel Range	-	-
Motor Oil Range	-	-

PEAK CARBON NO

Gasoline Range	C10	-
Diesel Range	-	-
Motor Oil Range	-	-



Mark Shih Ph.D.
Chemist

March 5, 1990
Date

TOTAL PETROLEUM HYDROCARBONS
MODIFIED EPA METHOD 8015

EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: MW5 @ 9'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/20/1990
DATE COMPLETED: 02/27/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> [mg/kg (ppm)]	<u>DETECTION LIMIT</u> [mg/kg (ppm)]
Gasoline Range	<5	5
Diesel Range	<10	10
Motor Oil Range	<25	25
Total Petroleum Hydrocarbons	-	-
<u>CARBON NO. RANGE</u>		
Gasoline Range	-	-
Diesel Range	-	-
Motor Oil Range	-	-
<u>PEAK CARBON NO</u>		
Gasoline Range	-	-
Diesel Range	-	-
Motor Oil Range	-	-



Mark Shih Ph.D.
Chemist

March 5, 1990
Date

TOTAL PETROLEUM HYDROCARBONS
MODIFIED EPA METHOD 8015

EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: MW1 @ 10.5

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/20/1990
DATE COMPLETED: 02/27/1990

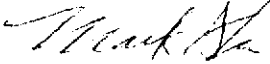
<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> [mg/kg(ppm)]	<u>DETECTION LIMIT</u> [mg/kg(ppm)]
Gasoline Range	732	5
Diesel Range	<10	10
Motor Oil Range	<25	25
Total Petroleum Hydrocarbons	732	-

CARBON NO. RANGE

Gasoline Range	C9-C12	-
Diesel Range	-	-
Motor Oil Range	-	-

PEAK CARBON NO

Gasoline Range	C10	-
Diesel Range	-	-
Motor Oil Range	-	-



Mark Shih Ph.D.
Chemist

March 5, 1990
Date

TOTAL PETROLEUM HYDROCARBONS
MODIFIED EPA METHOD 8015

EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

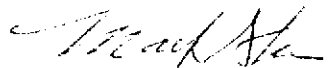
Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: MW2 @ 9'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/20/1990
DATE COMPLETED: 02/27/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> [mg/kg(ppm)]	<u>DETECTION LIMIT</u> [mg/kg(ppm)]
Gasoline Range	246 *	5
Diesel Range	<10	10
Motor Oil Range	47	25
Total Petroleum Hydrocarbons	293	-
<u>CARBON NO. RANGE</u>		
Gasoline Range	C9-C12	-
Diesel Range	-	-
Motor Oil Range	C18-C28	-
<u>PEAK CARBON NO</u>		
Gasoline Range	C10	-
Diesel Range	-	-
Motor Oil Range	C24	-

* Gasoline range hydrocarbons present but their pattern is different from our gasoline standard.



Mark Shih Ph.D.
Chemist

March 5, 1990
Date

TOTAL PETROLEUM HYDROCARBONS
MODIFIED EPA METHOD 8015

EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: MW3 @ 9'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/20/1990
DATE COMPLETED: 02/27/1990

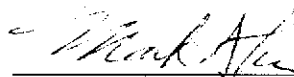
<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> [mg/kg (ppm)]	<u>DETECTION LIMIT</u> [mg/kg (ppm)]
Gasoline Range	352	5
Diesel Range	<10	10
Motor Oil Range	<25	25
Total Petroleum Hydrocarbons	352	-

CARBON NO. RANGE

Gasoline Range	C9-C12	-
Diesel Range	-	-
Motor Oil Range	-	-

PEAK CARBON NO

Gasoline Range	C10	-
Diesel Range	-	-
Motor Oil Range	-	-



Mark Shih Ph.D.
Chemist

March 5, 1990
Date

TOTAL PETROLEUM HYDROCARBONS
MODIFIED EPA METHOD 8015

EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: MW4 @ 10.5'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/20/1990
DATE COMPLETED: 02/27/1990

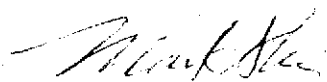
<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> [mg/kg(ppm)]	<u>DETECTION LIMIT</u> [mg/kg(ppm)]
Gasoline Range	<5	5
Diesel Range	<10	10
Motor Oil Range	<25	25
Total Petroleum Hydrocarbons	-	-

CARBON NO. RANGE

Gasoline Range	-	-
Diesel Range	-	-
Motor Oil Range	-	-

PEAK CARBON NO

Gasoline Range	-	-
Diesel Range	-	-
Motor Oil Range	-	-



Mark Shih Ph.D.
Chemist

March 5, 1990
Date

TOTAL PETROLEUM HYDROCARBONS
MODIFIED EPA METHOD 8015

EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: MATRIX SPIKE RECOVERY

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/20/1990
DATE COMPLETED: 02/27/1990

PETROLEUM HYDROCARBONS

SPIKE RECOVERY

Gasoline Range
Diesel Range
Motor Oil Range
Total Petroleum Hydrocarbons

-
97%
-
-

CARBON NO. RANGE

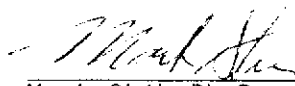
Gasoline Range
Diesel Range
Motor Oil Range

-
-
-

PEAK CARBON NO

Gasoline Range
Diesel Range
Motor Oil Range

-
-
-



Mark Shih Ph.D.
Chemist

March 5, 1990
Date

TOTAL PETROLEUM HYDROCARBONS
MODIFIED EPA METHOD 8015

EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: MATRIX SPIKE RECOVERY
DUPLICATE

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/20/1990
DATE COMPLETED: 02/27/1990

PETROLEUM HYDROCARBONS

SPIKE RECOVERY

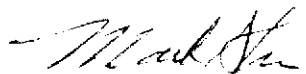
Gasoline Range	-
Diesel Range	90%
Motor Oil Range	-
Total Petroleum Hydrocarbons	-

CARBON NO. RANGE

Gasoline Range	-
Diesel Range	-
Motor Oil Range	-

PEAK CARBON NO

Gasoline Range	-
Diesel Range	-
Motor Oil Range	-



Mark Shih Ph.D.
Chemist

March 5, 1990
Date

TOTAL PETROLEUM HYDROCARBONS
MODIFIED EPA METHOD 8015

EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: REAGENT SPIKE RECOVERY

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/20/1990
DATE COMPLETED: 02/27/1990

PETROLEUM HYDROCARBONS

SPIKE RECOVERY

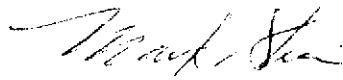
Gasoline Range	-
Diesel Range	87%
Motor Oil Range	-
Total Petroleum Hydrocarbons	-

CARBON NO. RANGE

Gasoline Range	-
Diesel Range	-
Motor Oil Range	-

PEAK CARBON NO

Gasoline Range	-
Diesel Range	-
Motor Oil Range	-



Mark Shih Ph.D.
Chemist

March 5, 1990
Date

TOTAL PETROLEUM HYDROCARBONS
MODIFIED EPA METHOD 8015

EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: REAGENT SPIKE RECOVERY
DUPLICATE

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/20/1990
DATE COMPLETED: 02/27/1990

PETROLEUM HYDROCARBONS

SPIKE RECOVERY

Gasoline Range
Diesel Range
Motor Oil Range
Total Petroleum Hydrocarbons

-
88%
-
-

CARBON NO. RANGE

Gasoline Range
Diesel Range
Motor Oil Range

-
-
-

PEAK CARBON NO

Gasoline Range
Diesel Range
Motor Oil Range

-
-
-



Mark Shih Ph.D.
Chemist

March 5, 1990
Date

TOTAL PETROLEUM HYDROCARBONS
MODIFIED EPA METHOD 8015 (MODIFIED)
(WATER)

EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: BLANK

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/20/1990
DATE COMPLETED: 02/27/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> [mg/L (ppm)]	<u>DETECTION LIMIT</u> [mg/L (ppm)]
Gasoline Range	<0.1	0.1
Diesel Range	<0.2	0.2
Motor Oil Range	<0.5	0.5
Total Petroleum Hydrocarbons	-	-
<u>CARBON NO. RANGE</u>		
Gasoline Range	-	-
Diesel Range	-	-
Motor Oil Range	-	-
<u>PEAK CARBON NO</u>		
Gasoline Range	-	-
Diesel Range	-	-
Motor Oil Range	-	-

Sandia Kao
Senior Chemist, Organic Group

March 5, 1990
Date

TOTAL PETROLEUM HYDROCARBONS
MODIFIED EPA METHOD 8015 (MODIFIED)
(WATER)

EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: MW1

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/20/1990
DATE COMPLETED: 02/27/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> [mg/L (ppm)]	<u>DETECTION LIMIT</u> [mg/L (ppm)]
Gasoline Range	0.1	0.1
Diesel Range	<0.2	0.2
Motor Oil Range	<0.5	0.5
Total Petroleum Hydrocarbons	0.1	-
<u>CARBON NO. RANGE</u>		
Gasoline Range	C9-C12	-
Diesel Range	-	-
Motor Oil Range	-	-
<u>PEAK CARBON NO</u>		
Gasoline Range	C10	-
Diesel Range	-	-
Motor Oil Range	-	-

Sandia Kao
Senior Chemist, Organic Group

March 5, 1990
Date

TOTAL PETROLEUM HYDROCARBONS
MODIFIED EPA METHOD 8015 (MODIFIED)
(WATER)

EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: MW2

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/20/1990
DATE COMPLETED: 02/27/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> [mg/L (ppm)]	<u>DETECTION LIMIT</u> [mg/L (ppm)]
Gasoline Range	0.1	0.1
Diesel Range	<0.2	0.2
Motor Oil Range	<0.5	0.5
Total Petroleum Hydrocarbons	0.1	-

CARBON NO. RANGE

Gasoline Range	C9-C12	-
Diesel Range	-	-
Motor Oil Range	-	-

PEAK CARBON NO

Gasoline Range	C10	-
Diesel Range	-	-
Motor Oil Range	-	-

Sandia Kao
Senior Chemist, Organic Group

March 5, 1990
Date

TOTAL PETROLEUM HYDROCARBONS
MODIFIED EPA METHOD 8015 (MODIFIED)
(WATER)

EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: MW5

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/20/1990
DATE COMPLETED: 02/27/1990

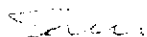
<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> [mg/L (ppm)]	<u>DETECTION LIMIT</u> [mg/L (ppm)]
Gasoline Range	<0.1	0.1
Diesel Range	<0.2	0.2
Motor Oil Range	<0.5	0.5
Total Petroleum Hydrocarbons	-	-

CARBON NO. RANGE

Gasoline Range	-	-
Diesel Range	-	-
Motor Oil Range	-	-

PEAK CARBON NO

Gasoline Range	-	-
Diesel Range	-	-
Motor Oil Range	-	-


Sandia Kao
Senior Chemist, Organic Group

March 5, 1990
Date

TOTAL PETROLEUM HYDROCARBONS
MODIFIED EPA METHOD 8015 (MODIFIED)
(WATER)

EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: MW4

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/20/1990
DATE COMPLETED: 02/27/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> [mg/L (ppm)]	<u>DETECTION LIMIT</u> [mg/L (ppm)]
Gasoline Range	<0.1	0.1
Diesel Range	<0.2	0.2
Motor Oil Range	<0.5	0.5
Total Petroleum Hydrocarbons	-	-

CARBON NO. RANGE

Gasoline Range	-	-
Diesel Range	-	-
Motor Oil Range	-	-

PEAK CARBON NO

Gasoline Range	-	-
Diesel Range	-	-
Motor Oil Range	-	-

Sandia Kao
Senior Chemist, Organic Group

March 5, 1990
Date

TOTAL PETROLEUM HYDROCARBONS
MODIFIED EPA METHOD 8015 (MODIFIED)
(WATER)

EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID: MW3

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/20/1990
DATE COMPLETED: 02/27/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> [mg/L (ppm)]	<u>DETECTION LIMIT</u> [mg/L (ppm)]
Gasoline Range	0.1	0.1
Diesel Range	<0.2	0.2
Motor Oil Range	<0.5	0.5
Total Petroleum Hydrocarbons	0.1	-

CARBON NO. RANGE

Gasoline Range	C9-C12	-
Diesel Range	-	-
Motor Oil Range	-	-

PEAK CARBON NO

Gasoline Range	C10	-
Diesel Range	-	-
Motor Oil Range	-	-

Sandia Kao
Senior Chemist, Organic Group

March 5, 1990
Date

Total Recoverable Hydrocarbons
EPA METHOD 418.1

EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/20/1990
DATE COMPLETED: 02/21/1990

<u>SAMPLE ID.</u>	<u>CONCENTRATION [mg/L (ppm)]</u>	<u>D/L</u>
MW1	<0.5	0.5
MW2	<0.5	0.5
MW3	<0.5	0.5
MW4	<0.5	0.5
MW5	<0.5	0.5
18	120	10
Method Blank	<0.5	0.5
REAGENT SPIKE RECOVERY	103%	
REAGENT SPIKE RECOVERY DUPLICATE	106%	

Abdou Mekebri
Abdou Mekebri
Chemist

March 5, 1990
Date

Total Recoverable Hydrocarbons
EPA METHOD 418.1

EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/20/1990
DATE COMPLETED: 02/21/1990

<u>SAMPLE ID.</u>	<u>CONCENTRATION</u>	<u>[mg/Kg(ppm)]</u>	<u>D/L</u>
18 @ 9.5'	<4		4
21 @ 9.5'	<4		4
MW5 @ 9'	<4		4
MW1 @ 10.5'	<4		4
MW2 @ 9'	278		4
MW3 @ 9'	840		40
MW4 @ 10.5'	<4		4
Method Blank	<4		4
MW5 @ 9' MATRIX SPIKE RECOVERY	100%		
MW5 @ 9' MATRIX SPIKE RECOVERY DUPLICATE	103%		

Abdou Mekebri
Abdou Mekebri
Chemist

March 5, 1990
Date

EUREKA LABORATORIES, INC.

Corporate Office:
6790 FLORIN PERKINS ROAD
SACRAMENTO, CA 95828
TEL: (916) 381-7953
FAX: (916) 381-4013

Branch Office:
12121 NORTHUP WAY, SUITE 212
BELLEVUE, WA 98005
TEL: (206) 885-0284
FAX: (206) 885-6162
March 12, 1990

Air Pollution
Chemical Analysis.
Research & Testing
Environmental Studies
Robotics
Toxicology

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MAR 15 1990

AM 7 8 9 10 11 12 1 2 3 4 5 6 PM

Mr. Bill Wikander
SUBSURFACE CONSULTANTS
171 12th Street
Oakland, CA 94607

Reference: ELI Order No: 90-02-109 Amended
Project Name : 98th & EDES, Phase 2
Job #: 272.016

Dear Mr. Wikander:

Eureka Laboratories, Inc. is pleased to submit a laboratory report for the subject task. This report presents analytical results for six (6) water samples and thirty-one (31) soil samples for the following analyses:

<u>ANALYSIS</u>	<u>METHOD</u>	<u>SAMPLE ID.</u>
Total Petroleum Hydrocarbons	Purg and Trap 5030	MW1, MW2, MW3, MW4, MW5, 18, 17 @ 10', 17 @ 11.5', 18 @ 8', 18 @ 9.5', 18 @ 11.5', 19 @ 10', 20 @ 9', 21 @ 7.5', 21 @ 9.5', 21 @ 11.5', 21 @ 13', MW4 @ 13.5', MW5 @ 9', MW5 @ 11', 15 @ 6', 15 @ 9.5', 15 @ 10.5', 16 @ 4', MW1 @ 10.5', 16 @ 7', 16 @ 11.5', 17 @ 8.5', MW1 @ 8', MW1 @ 12', MW2 @ 6', MW2 @ 9', MW2 @ 12', MW3 @ 6', MW3 @ 9', MW4 @ 4.5', MW4 @ 10.5'.

Sincerely,
EUREKA LABORATORIES, INC.

By: Shao-Pin Yo
Shao-Pin Yo, Ph.D.
Laboratory Director

SPY/da

Attachment

TOTAL PETROLEUM HYDROCARBONS
By Purge and Trap Method 5030

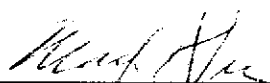
EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID : BLANK

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> [ug/L (ppb)]	<u>DETECTION LIMIT</u> [ug/L (ppb)]
Gasoline Range	<20	20
Total Petroleum Hydrocarbons	-	-
<u>CARBON NO. RANGE</u>		
Gasoline Range	-	-
<u>PEAK CARBON NO</u>		
Gasoline Range	-	-



Mark Shih, Ph.D.
Chemist

March 12, 1990
Date

TOTAL PETROLEUM HYDROCARBONS
By Purge and Trap Method 5030

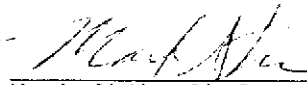
EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID : MW1

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> [ug/L (ppb)]	<u>DETECTION LIMIT</u> [ug/L (ppb)]
Gasoline Range	55.1	20
Total Petroleum Hydrocarbons	55.1	-
<u>CARBON NO. RANGE</u>		
Gasoline Range	C9-C13	-
<u>PEAK CARBON NO</u>		
Gasoline Range	C10	-



Mark Shih, Ph.D.
Chemist

March 12, 1990
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TOTAL PETROLEUM HYDROCARBONS
By Purge and Trap Method 5030

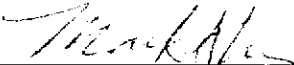
EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID : MW2

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> <u>[ug/L (ppb)]</u>	<u>DETECTION LIMIT</u> <u>[ug/L (ppb)]</u>
Gasoline Range	35.1	20
Total Petroleum Hydrocarbons	35.1	-
<u>CARBON NO. RANGE</u>		
Gasoline Range	C9-C13	-
<u>PEAK CARBON NO</u>		
Gasoline Range	C10	-



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TOTAL PETROLEUM HYDROCARBONS
By Purge and Trap Method 5030

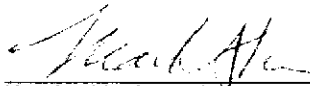
EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID : MW3

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> <u>[ug/L (ppb)]</u>	<u>DETECTION LIMIT</u> <u>[ug/L (ppb)]</u>
Gasoline Range	<20	20
Total Petroleum Hydrocarbons	-	-
<u>CARBON NO. RANGE</u>		
Gasoline Range	-	-
<u>PEAK CARBON NO</u>		
Gasoline Range	-	-



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March 12, 1990
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TOTAL PETROLEUM HYDROCARBONS
By Purge and Trap Method 5030

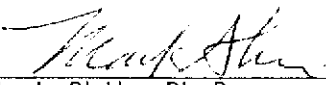
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6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID : MW4

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> <u>[ug/L (ppb)]</u>	<u>DETECTION LIMIT</u> <u>[ug/L (ppb)]</u>
Gasoline Range	<20	20
Total Petroleum Hydrocarbons	-	-
<u>CARBON NO. RANGE</u>		
Gasoline Range	-	-
<u>PEAK CARBON NO</u>		
Gasoline Range	-	-



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TOTAL PETROLEUM HYDROCARBONS
By Purge and Trap Method 5030

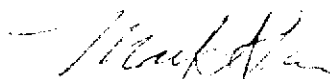
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(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID : MW5

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> <u>[ug/L (ppb)]</u>	<u>DETECTION LIMIT</u> <u>[ug/L (ppb)]</u>
Gasoline Range	<20	20
Total Petroleum Hydrocarbons	-	-
<u>CARBON NO. RANGE</u>		
Gasoline Range	-	-
<u>PEAK CARBON NO</u>		
Gasoline Range	-	-



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TOTAL PETROLEUM HYDROCARBONS
By Purge and Trap Method 5030

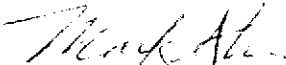
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Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID : 18

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> <u>[ug/L (ppb)]</u>	<u>DETECTION LIMIT</u> <u>[ug/L (ppb)]</u>
Gasoline Range	134,000	20
Total Petroleum Hydrocarbons	134,000	-
<u>CARBON NO. RANGE</u>		
Gasoline Range	C9-13	-
<u>PEAK CARBON NO</u>		
Gasoline Range	C10	-



Mark Shih, Ph.D.
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TOTAL PETROLEUM HYDROCARBONS
By Purge and Trap Method 5030

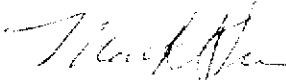
EUREKA LABORATORIES, INC.
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Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID : BLANK

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> [ug/Kg]	<u>DETECTION LIMIT</u> [ug/Kg (ppb)]
Gasoline Range	<200	200
Total Petroleum Hydrocarbons	-	-
<u>CARBON NO. RANGE</u>		
Gasoline Range	-	-
<u>PEAK CARBON NO</u>		
Gasoline Range	-	-



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TOTAL PETROLEUM HYDROCARBONS
By Purge and Trap Method 5030

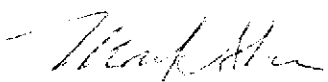
EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID : 17 @ 10'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> <u>[ug/Kg]</u>	<u>DETECTION LIMIT</u> <u>[ug/Kg (ppb)]</u>
Gasoline Range	<200	200
Total Petroleum Hydrocarbons	-	-
<u>CARBON NO. RANGE</u>		
Gasoline Range	-	-
<u>PEAK CARBON NO</u>		
Gasoline Range	-	-



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March 12, 1990
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TOTAL PETROLEUM HYDROCARBONS
By Purge and Trap Method 5030

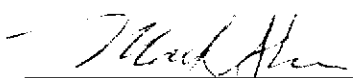
EUREKA LABORATORIES, INC.
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Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID : 17 @ 11.5

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> [ug/Kg]	<u>DETECTION LIMIT</u> [ug/Kg (ppb)]
Gasoline Range	<200	200
Total Petroleum Hydrocarbons	-	-
<u>CARBON NO. RANGE</u>		
Gasoline Range	-	-
<u>PEAK CARBON NO</u>		
Gasoline Range	-	-



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March 12, 1990
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TOTAL PETROLEUM HYDROCARBONS
By Purge and Trap Method 5030

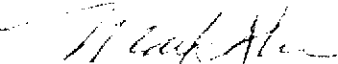
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(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID : 18 @ 8'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> [ug/Kg]	<u>DETECTION LIMIT</u> [ug/Kg (ppb)]
Gasoline Range	<200	200
Total Petroleum Hydrocarbons	-	-
<u>CARBON NO. RANGE</u>		
Gasoline Range	-	-
<u>PEAK CARBON NO</u>		
Gasoline Range	-	-



Mark Shih, Ph.D.
Chemist

March 12, 1990
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TOTAL PETROLEUM HYDROCARBONS
By Purge and Trap Method 5030

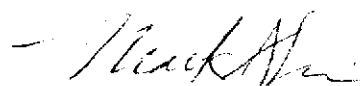
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Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID : 18 @ 9.5'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> [ug/Kg]	<u>DETECTION LIMIT</u> [ug/Kg (ppb)]
Gasoline Range	766	200
Total Petroleum Hydrocarbons	766	-
<u>CARBON NO. RANGE</u>		
Gasoline Range	C9-C13	-
<u>PEAK CARBON NO</u>		
Gasoline Range	C10	-


Mark Shih, Ph.D.
Chemist

March 12, 1990
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TOTAL PETROLEUM HYDROCARBONS
By Purge and Trap Method 5030

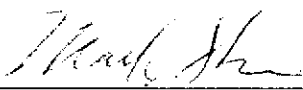
EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID : 18 @ 11.5'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> [ug/Kg]	<u>DETECTION LIMIT</u> [ug/Kg (ppb)]
Gasoline Range	703	200
Total Petroleum Hydrocarbons	703	-
<u>CARBON NO. RANGE</u>		
Gasoline Range	C9-C13	-
<u>PEAK CARBON NO</u>		
Gasoline Range	C10	-



Mark Shih, Ph.D.
Chemist

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TOTAL PETROLEUM HYDROCARBONS
By Purge and Trap Method 5030


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Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID : 19 @ 10

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> [ug/Kg]	<u>DETECTION LIMIT</u> [ug/Kg (ppb)]
Gasoline Range	<200	200
Total Petroleum Hydrocarbons	-	-
<u>CARBON NO. RANGE</u>		
Gasoline Range	-	-
<u>PEAK CARBON NO</u>		
Gasoline Range	-	-



Mark Shih, Ph.D.
Chemist

March 12, 1990

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TOTAL PETROLEUM HYDROCARBONS
By Purge and Trap Method 5030

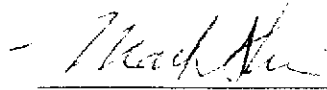
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(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID : 20 @ 9'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> [ug/Kg]	<u>DETECTION LIMIT</u> [ug/Kg (ppb)]
Gasoline Range	<200	200
Total Petroleum Hydrocarbons	-	-
<u>CARBON NO. RANGE</u>		
Gasoline Range	-	-
<u>PEAK CARBON NO</u>		
Gasoline Range	-	-



Mark Shih, Ph.D.
Chemist

March 12, 1990
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TOTAL PETROLEUM HYDROCARBONS
By Purge and Trap Method 5030

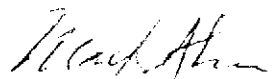
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Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID : 21 @ 7.5'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> <u>[ug/Kg]</u>	<u>DETECTION LIMIT</u> <u>[ug/Kg (ppb)]</u>
Gasoline Range	<200	200
Total Petroleum Hydrocarbons	-	-
<u>CARBON NO. RANGE</u>		
Gasoline Range	-	-
<u>PEAK CARBON NO</u>		
Gasoline Range	-	-



Mark Shih, Ph.D.
Chemist

March 12, 1990
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TOTAL PETROLEUM HYDROCARBONS
By Purge and Trap Method 5030

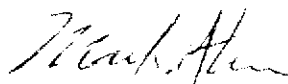
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Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID : 21 @ 9.5'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> [ug/Kg]	<u>DETECTION LIMIT</u> [ug/Kg (ppb)]
Gasoline Range	<200	200
Total Petroleum Hydrocarbons	-	-
<u>CARBON NO. RANGE</u>		
Gasoline Range	-	-
<u>PEAK CARBON NO</u>		
Gasoline Range	-	-



Mark Shih, Ph.D.
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March 12, 1990
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TOTAL PETROLEUM HYDROCARBONS
By Purge and Trap Method 5030

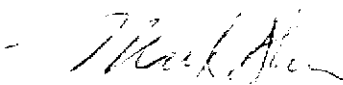
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Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID : 21 @ 11.5'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> [ug/Kg]	<u>DETECTION LIMIT</u> [ug/Kg (ppb)]
Gasoline Range	754	200
Total Petroleum Hydrocarbons	754	-
<u>CARBON NO. RANGE</u>		
Gasoline Range	C9-C13	-
<u>PEAK CARBON NO</u>		
Gasoline Range	C10	-



Mark Shih, Ph.D.
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March 12, 1990
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TOTAL PETROLEUM HYDROCARBONS
By Purge and Trap Method 5030

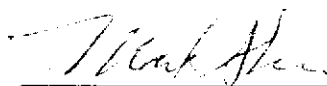
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Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID : 21 @ 13'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> [ug/Kg]	<u>DETECTION LIMIT</u> [ug/Kg (ppb)]
Gasoline Range	<200	200
Total Petroleum Hydrocarbons	-	-
<u>CARBON NO. RANGE</u>		
Gasoline Range	-	-
<u>PEAK CARBON NO</u>		
Gasoline Range	-	-



Mark Shih, Ph.D.
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TOTAL PETROLEUM HYDROCARBONS
By Purge and Trap Method 5030

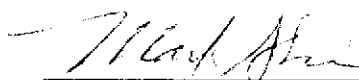
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Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID : MW4 @ 13.5'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> <u>[ug/Kg]</u>	<u>DETECTION LIMIT</u> <u>[ug/Kg (ppb)]</u>
Gasoline Range	<200	200
Total Petroleum Hydrocarbons	-	-
<u>CARBON NO. RANGE</u>		
Gasoline Range	-	-
<u>PEAK CARBON NO</u>		
Gasoline Range	-	-



Mark Shih, Ph.D.
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March 12, 1990
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TOTAL PETROLEUM HYDROCARBONS
By Purge and Trap Method 5030

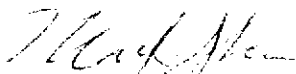
EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID : MW5 @ 9'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> [ug/Kg]	<u>DETECTION LIMIT</u> [ug/Kg (ppb)]
Gasoline Range	<200	200
Total Petroleum Hydrocarbons	-	-
<u>CARBON NO. RANGE</u>		
Gasoline Range	-	-
<u>PEAK CARBON NO</u>		
Gasoline Range	-	-



Mark Shih, Ph.D.
Chemist

March 12, 1990
Date

TOTAL PETROLEUM HYDROCARBONS
By Purge and Trap Method 5030

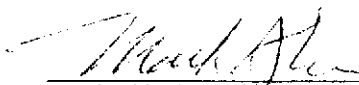
EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID : MW5 @ 11'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> [ug/Kg]	<u>DETECTION LIMIT</u> [ug/Kg (ppb)]
Gasoline Range	<200	200
Total Petroleum Hydrocarbons	-	-
<u>CARBON NO. RANGE</u>		
Gasoline Range	-	-
<u>PEAK CARBON NO</u>		
Gasoline Range	-	-



Mark Shih, Ph.D.
Chemist

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TOTAL PETROLEUM HYDROCARBONS
By Purge and Trap Method 5030

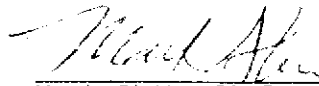
EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID : 15 @ 6'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> <u>[ug/Kg]</u>	<u>DETECTION LIMIT</u> <u>[ug/Kg (ppb)]</u>
Gasoline Range	<200	200
Total Petroleum Hydrocarbons	-	-
<u>CARBON NO. RANGE</u>		
Gasoline Range	-	-
<u>PEAK CARBON NO</u>		
Gasoline Range	-	-



Mark Shih, Ph.D.
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TOTAL PETROLEUM HYDROCARBONS
By Purge and Trap Method 5030

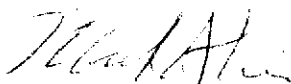
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6790 Florin Perkins Road
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(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID : 15 @ 9.5'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> [ug/Kg]	<u>DETECTION LIMIT</u> [ug/Kg (ppb)]
Gasoline Range	737	200
Total Petroleum Hydrocarbons	737	-
<u>CARBON NO. RANGE</u>		
Gasoline Range	C9-C13	-
<u>PEAK CARBON NO</u>		
Gasoline Range	C10	-



Mark Shih, Ph.D.
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TOTAL PETROLEUM HYDROCARBONS
By Purge and Trap Method 5030

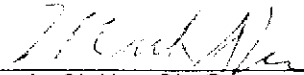
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6790 Florin Perkins Road
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(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID : 15 @ 10.5'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> [ug/Kg]	<u>DETECTION LIMIT</u> [ug/Kg (ppb)]
Gasoline Range	56,600	200
Total Petroleum Hydrocarbons	56,600	-
<u>CARBON NO. RANGE</u>		
Gasoline Range	C9-C13	-
<u>PEAK CARBON NO</u>		
Gasoline Range	C10	-



Mark Shih, Ph.D.
Chemist

March 12, 1990
Date

TOTAL PETROLEUM HYDROCARBONS
By Purge and Trap Method 5030

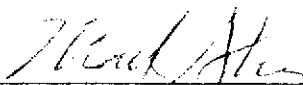
EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID : 16 @ 4'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> [ug/Kg]	<u>DETECTION LIMIT</u> [ug/Kg (ppb)]
Gasoline Range	<200	200
Total Petroleum Hydrocarbons	-	-
<u>CARBON NO. RANGE</u>		
Gasoline Range	-	-
<u>PEAK CARBON NO</u>		
Gasoline Range	-	-



Mark Shih, Ph.D.
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March 12, 1990
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TOTAL PETROLEUM HYDROCARBONS
By Purge and Trap Method 5030

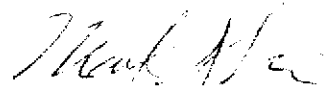
EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID : MW1 @ 10.5'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> [ug/Kg]	<u>DETECTION LIMIT</u> [ug/Kg (ppb)]
Gasoline Range	<200	200
Total Petroleum Hydrocarbons	-	-
<u>CARBON NO. RANGE</u>		
Gasoline Range	-	-
<u>PEAK CARBON NO</u>		
Gasoline Range	-	-



Mark Shih, Ph.D.
Chemist

March 12, 1990
Date

TOTAL PETROLEUM HYDROCARBONS
By Purge and Trap Method 5030

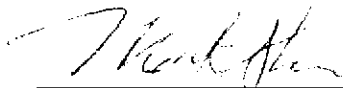
EUREKA LABORATORIES, INC.
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(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID : 16 @ 7'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> [ug/Kg]	<u>DETECTION LIMIT</u> [ug/Kg (ppb)]
Gasoline Range	641	200
Total Petroleum Hydrocarbons	641	-
<u>CARBON NO. RANGE</u>		
Gasoline Range	C9-C13	-
<u>PEAK CARBON NO</u>		
Gasoline Range	C10	-



Mark Shih, Ph.D.
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March 12, 1990

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TOTAL PETROLEUM HYDROCARBONS
By Purge and Trap Method 5030

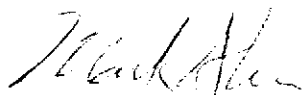
EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID : 16 @ 11.5'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> [ug/Kg]	<u>DETECTION LIMIT</u> [ug/Kg (ppb)]
Gasoline Range	10,200	200
Total Petroleum Hydrocarbons	10,200	-
<u>CARBON NO. RANGE</u>		
Gasoline Range	C9-C13	-
<u>PEAK CARBON NO</u>		
Gasoline Range	C10	-



Mark Shih, Ph.D.
Chemist

March 12, 1990

Date

TOTAL PETROLEUM HYDROCARBONS
By Purge and Trap Method 5030

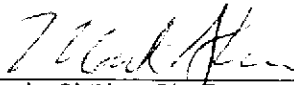
EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID : 17 @ 8.5'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> [ug/Kg]	<u>DETECTION LIMIT</u> [ug/Kg (ppb)]
Gasoline Range	<200	200
Total Petroleum Hydrocarbons	-	-
<u>CARBON NO. RANGE</u>		
Gasoline Range	-	-
<u>PEAK CARBON NO</u>		
Gasoline Range	-	-



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TOTAL PETROLEUM HYDROCARBONS
By Purge and Trap Method 5030

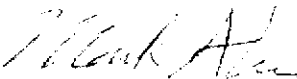
EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID : MW1 @ 8'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> [ug/Kg]	<u>DETECTION LIMIT</u> [ug/Kg (ppb)]
Gasoline Range	<200	200
Total Petroleum Hydrocarbons	-	-
<u>CARBON NO. RANGE</u>		
Gasoline Range	-	-
<u>PEAK CARBON NO</u>		
Gasoline Range	-	-



Mark Shih, Ph.D.
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March 12, 1990

Date

TOTAL PETROLEUM HYDROCARBONS
By Purge and Trap Method 5030

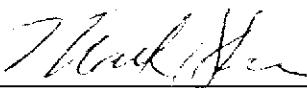
EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID : MW1 @ 12'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> [ug/Kg]	<u>DETECTION LIMIT</u> [ug/Kg (ppb)]
Gasoline Range	<200	200
Total Petroleum Hydrocarbons	<200	-
<u>CARBON NO. RANGE</u>		
Gasoline Range	-	-
<u>PEAK CARBON NO</u>		
Gasoline Range	-	-



Mark Shih, Ph.D.
Chemist

March 12, 1990
Date

TOTAL PETROLEUM HYDROCARBONS
By Purge and Trap Method 5030

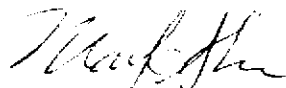
EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID : MW2 @ 6'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> [ug/Kg]	<u>DETECTION LIMIT</u> [ug/Kg (ppb)]
Gasoline Range	<200	200
Total Petroleum Hydrocarbons	-	-
<u>CARBON NO. RANGE</u>		
Gasoline Range	-	-
<u>PEAK CARBON NO</u>		
Gasoline Range	-	-



Mark Shih, Ph.D.
Chemist

March 12, 1990

Date

TOTAL PETROLEUM HYDROCARBONS
By Purge and Trap Method 5030

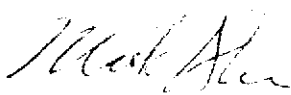
EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID : MW2 @ 9'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> [ug/Kg]	<u>DETECTION LIMIT</u> [ug/Kg (ppb)]
Gasoline Range	<200	200
Total Petroleum Hydrocarbons	-	-
<u>CARBON NO. RANGE</u>		
Gasoline Range	-	-
<u>PEAK CARBON NO</u>		
Gasoline Range	-	-



Mark Shih, Ph.D.
Chemist

March 12, 1990
Date

TOTAL PETROLEUM HYDROCARBONS
By Purge and Trap Method 5030

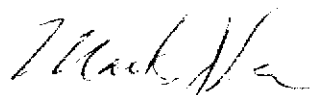
EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID : MW2 @ 12'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> [ug/Kg]	<u>DETECTION LIMIT</u> [ug/Kg (ppb)]
Gasoline Range	<200	200
Total Petroleum Hydrocarbons	-	-
<u>CARBON NO. RANGE</u>		
Gasoline Range	-	-
<u>PEAK CARBON NO</u>		
Gasoline Range	-	-



Mark Shih, Ph.D.
Chemist

March 12, 1990
Date

TOTAL PETROLEUM HYDROCARBONS
By Purge and Trap Method 5030

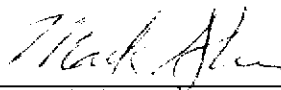
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6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID : MW3 @ 6'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> [ug/Kg]	<u>DETECTION LIMIT</u> [ug/Kg (ppb)]
Gasoline Range	<200	200
Total Petroleum Hydrocarbons	-	-
<u>CARBON NO. RANGE</u>		
Gasoline Range	-	-
<u>PEAK CARBON NO</u>		
Gasoline Range	-	-



Mark Shih, Ph.D.
Chemist

March 12, 1990

Date

TOTAL PETROLEUM HYDROCARBONS
By Purge and Trap Method 5030

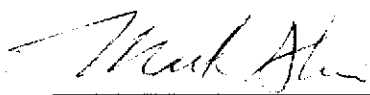
EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID : MW3 @ 9'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> [ug/Kg]	<u>DETECTION LIMIT</u> [ug/Kg (ppb)]
Gasoline Range	14,400	200
Total Petroleum Hydrocarbons	14,400	-
<u>CARBON NO. RANGE</u>		
Gasoline Range	C9-C13	-
<u>PEAK CARBON NO</u>		
Gasoline Range	C10	-



Mark Shih, Ph.D.
Chemist

March 12, 1990
Date

TOTAL PETROLEUM HYDROCARBONS
By Purge and Trap Method 5030

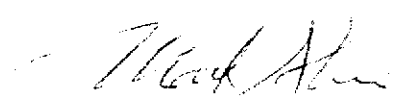
EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID : MW4 @ 4.5'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> [ug/Kg]	<u>DETECTION LIMIT</u> [ug/Kg (ppb)]
Gasoline Range	<200	200
Total Petroleum Hydrocarbons	-	-
<u>CARBON NO. RANGE</u>		
Gasoline Range	-	-
<u>PEAK CARBON NO</u>		
Gasoline Range	-	-


Mark Shih, Ph.D.
Chemist

March 12, 1990
Date

TOTAL PETROLEUM HYDROCARBONS
By Purge and Trap Method 5030

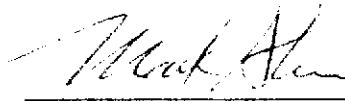
EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-02-109
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE CONSULTANTS
PROJECT NAME: 98TH & EDES, PHASE 2
JOB #: 272.016
SAMPLE ID : MW4 @ 10.5'

DATE RECEIVED : 02/15/1990
DATE EXTRACTED: 02/23/1990
DATE COMPLETED: 03/02/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> [ug/Kg]	<u>DETECTION LIMIT</u> [ug/Kg (ppb)]
Gasoline Range	<200	200
Total Petroleum Hydrocarbons	<200	-
<u>CARBON NO. RANGE</u>		
Gasoline Range	-	-
<u>PEAK CARBON NO</u>		
Gasoline Range	-	-



Mark Shih, Ph.D.
Chemist

March 12, 1990
Date

TOTAL PETROLEUM HYDROCARBONS
MODIFIED EPA METHOD 8015 (Modified)

EUREKA LABORATORIES, INC.
6790 Florin-Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-03-145
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE
REORDER OF: 90-02-109
REORDER DATE: 03/20/1990
SAMPLE ID: BLANK

DATE RECEIVED: 02/15/1990
DATE EXTRACTED: 03/22/1990
DATE COMPLETED: 03/27/1990

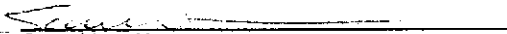
<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> <u>[mg/Kg (ppm)]</u>	<u>DETECTION LIMIT</u> <u>[mg/Kg (ppm)]</u>
Gasoline Range	<5	5
Diesel Range	<10	10
Motor Oil Range	<25	25
Total Petroleum Hydrocarbons	-	-

CARBON NO. RANGE

Gasoline Range	-	-
Diesel Range	-	-
Motor Oil Range	-	-

PEAK CARBON NO

Gasoline Range	-	-
Diesel Range	-	-
Motor Oil Range	-	-


Sandia Kao
Senior Chemist, Organic Group

March 27, 1990
Date

TOTAL PETROLEUM HYDROCARBONS
MODIFIED EPA METHOD 8015 (Modified)

EUREKA LABORATORIES, INC.
6790 Florin-Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-03-145
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE
REORDER OF: 90-02-109
REORDER DATE: 03/20/1990
SAMPLE ID: 17@10

DATE RECEIVED: 02/15/1990
DATE EXTRACTED: 03/22/1990
DATE COMPLETED: 03/27/1990

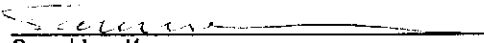
<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> <u>[mg/Kg (ppm)]</u>	<u>DETECTION LIMIT</u> <u>[mg/Kg (ppm)]</u>
Gasoline Range	<5	5
Diesel Range	<10	10
Motor Oil Range	<25	25
Total Petroleum Hydrocarbons	-	-

CARBON NO. RANGE

Gasoline Range - -
Diesel Range - -
Motor Oil Range - -

PEAK CARBON NO

Gasoline Range - -
Diesel Range - -
Motor Oil Range - -


Sandia Kao
Senior Chemist, Organic Group

March 27, 1990
Date

TOTAL PETROLEUM HYDROCARBONS
MODIFIED EPA METHOD 8015 (Modified)

EUREKA LABORATORIES, INC.
6790 Florin-Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-03-145
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE
REORDER OF: 90-02-109
REORDER DATE: 03/20/1990
SAMPLE ID: 1509.5

DATE RECEIVED: 02/15/1990
DATE EXTRACTED: 03/22/1990
DATE COMPLETED: 03/27/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> [mg/Kg(ppm)]	<u>DETECTION LIMIT</u> [mg/Kg(ppm)]
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Gasoline Range	16	5
Diesel Range	<10	10
Motor Oil Range	<25	25
Total Petroleum Hydrocarbons	16	-

CARBON NO. RANGE

Gasoline Range	C9-C12	-
Diesel Range	-	-
Motor Oil Range	-	-

PEAK CARBON NO

Gasoline Range	C10	-
Diesel Range	-	-
Motor Oil Range	-	-

Sandia Kao
Sandia Kao
Senior Chemist, Organic Group

March 27, 1990
Date

TOTAL PETROLEUM HYDROCARBONS
MODIFIED EPA METHOD 8015 (Modified)

EUREKA LABORATORIES, INC.
6790 Florin-Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-03-145
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE
REORDER OF: 90-02-109
REORDER DATE: 03/20/1990
SAMPLE ID: 15@10.5

DATE RECEIVED: 02/15/1990
DATE EXTRACTED: 03/22/1990
DATE COMPLETED: 03/27/1990


<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> <u>[mg/Kg(ppm)]</u>	<u>DETECTION LIMIT</u> <u>[mg/Kg(ppm)]</u>
Gasoline Range	1540	5
Diesel Range	<10	10
Motor Oil Range	<25	25
Total Petroleum Hydrocarbons	1540	-

CARBON NO. RANGE

Gasoline Range	C9-C12	-
Diesel Range	-	-
Motor Oil Range	-	-

PEAK CARBON NO

Gasoline Range	C10	-
Diesel Range	-	-
Motor Oil Range	-	-


Sandia Kao
Senior Chemist, Organic Group

March 27, 1990
Date

TOTAL PETROLEUM HYDROCARBONS
MODIFIED EPA METHOD 8015 (Modified)

EUREKA LABORATORIES, INC.
6790 Florin-Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-03-145
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE
REORDER OF: 90-02-109
REORDER DATE: 03/20/1990
SAMPLE ID: 1607

DATE RECEIVED: 02/15/1990
DATE EXTRACTED: 03/22/1990
DATE COMPLETED: 03/27/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> <u>[mg/Kg (ppm)]</u>	<u>DETECTION LIMIT</u> <u>[mg/Kg (ppm)]</u>
Gasoline Range	62	5
Diesel Range	<10	10
Motor Oil Range	<25	25
Total Petroleum Hydrocarbons	62	-

CARBON NO. RANGE

Gasoline Range	C9-C12	-
Diesel Range	-	-
Motor Oil Range	-	-

PEAK CARBON NO

Gasoline Range	C10	-
Diesel Range	-	-
Motor Oil Range	-	-

Sandia Kao
Senior Chemist, Organic Group

March 27, 1990
Date

TOTAL PETROLEUM HYDROCARBONS
MODIFIED EPA METHOD 8015 (Modified)

EUREKA LABORATORIES, INC.
6790 Florin-Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-03-145
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE
REORDER OF: 90-02-109
REORDER DATE: 03/20/1990
SAMPLE ID: 16@11.5

DATE RECEIVED: 02/15/1990
DATE EXTRACTED: 03/22/1990
DATE COMPLETED: 03/27/1990


<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> [mg/Kg (ppm)]	<u>DETECTION LIMIT</u> [mg/Kg (ppm)]
Gasoline Range	5650	5
Diesel Range	<10	10
Motor Oil Range	<25	25
Total Petroleum Hydrocarbons	5650	-

CARBON NO. RANGE

Gasoline Range	C9-C12	-
Diesel Range	-	-
Motor Oil Range	-	-

PEAK CARBON NO

Gasoline Range	C10	-
Diesel Range	-	-
Motor Oil Range	-	-


Sandia Kao
Senior Chemist, Organic Group

March 27, 1990
Date

TOTAL PETROLEUM HYDROCARBONS
MODIFIED EPA METHOD 8015 (Modified)

EUREKA LABORATORIES, INC.
6790 Florin-Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-03-145
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE
REORDER OF: 90-02-109
REORDER DATE: 03/20/1990
SAMPLE ID: 21011.5

DATE RECEIVED: 02/15/1990
DATE EXTRACTED: 03/22/1990
DATE COMPLETED: 03/27/1990

<u>PETROLEUM HYDROCARBONS</u>	<u>CONCENTRATION</u> [mg/Kg (ppm)]	<u>DETECTION LIMIT</u> [mg/Kg (ppm)]
Gasoline Range	20	5
Diesel Range	<10	10
Motor Oil Range	<25	25
Total Petroleum Hydrocarbons	20	-

CARBON NO. RANGE

Gasoline Range	C9-C12	-
Diesel Range	-	-
Motor Oil Range	-	-

PEAK CARBON NO

Gasoline Range	C10	-
Diesel Range	-	-
Motor Oil Range	-	-

Sandia Kao
Senior Chemist, Organic Group

March 27, 1990
Date

TOTAL PETROLEUM HYDROCARBONS
MODIFIED EPA METHOD 8015 (Modified)

EUREKA LABORATORIES, INC.
6790 Florin-Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-03-145
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE
REORDER OF: 90-02-109
REORDER DATE: 03/20/1990
SAMPLE ID: MATRIX SPIKE RECOVERY

DATE RECEIVED: 02/15/1990
DATE EXTRACTED: 03/22/1990
DATE COMPLETED: 03/27/1990

PETROLEUM HYDROCARBONS

SPIKE RECOVERY

Gasoline Range
Diesel Range
Motor Oil Range
Total Petroleum Hydrocarbons

-
91%
-

CARBON NO. RANGE

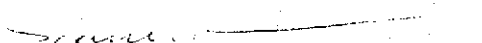
Gasoline Range
Diesel Range
Motor Oil Range

-
-
-

PEAK CARBON NO

Gasoline Range
Diesel Range
Motor Oil Range

-
-
-



Sandia Kao
Senior Chemist, Organic Group

March 27, 1990
Date

TOTAL PETROLEUM HYDROCARBONS
MODIFIED EPA METHOD 8015 (Modified)

EUREKA LABORATORIES, INC.
6790 Florin-Perkins Road
Sacramento, CA 95828
(916) 381-7953

Order No: 90-03-145
Hazardous Waste Testing
Certification: 108

CLIENT: SUBSURFACE
REORDER OF: 90-02-109
REORDER DATE: 03/20/1990
SAMPLE ID: MATRIX SPIKE RECOVERY DUP.

DATE RECEIVED: 02/15/1990
DATE EXTRACTED: 03/22/1990
DATE COMPLETED: 03/27/1990

PETROLEUM HYDROCARBONS

SPIKE RECOVERY

Gasoline Range	-
Diesel Range	93%
Motor Oil Range	-
Total Petroleum Hydrocarbons	

CARBON NO. RANGE

Gasoline Range	-
Diesel Range	-
Motor Oil Range	-

PEAK CARBON NO

Gasoline Range	-
Diesel Range	-
Motor Oil Range	-

Sandia Kao
Senior Chemist, Organic Group

March 27, 1990
Date

Subsurface Consultants

CHAIN OF CUSTODY RECORD & ANALYTICAL TEST REQUEST

Project Name: 98th & EDES, PHASE 2
 SCI Job Number: 272.016
 Project Contact at SCI: BILL WIKAUER
 Sampled By: JOHN WOLFE
 Analytical Laboratory: EUREKA LABORATORIES, INC.
 Analytical Turnaround: 10 DAY

Sample ID	Sample Type ¹	Container Type ²	Sampling Date	Hold	Analysis	Analytical Method
MW1 @ 8'	SOIL	BRASS TUBE	2/7/90		TUH/BXE	8015/8020
MW1 @ 10.5'			2/7/90		TUH/BXE TEH/TOG	8015/8020 8015 MOD./418.1
MW1 @ 12'			2/7/90		TUH/BXE	8015/8020
MW2 @ 6'			2/7/90		TUH/BXE	8015/8020
MW2 @ 9'			2/7/90		TUH/BXE/PURGE TEH/TOG	8015/8020/8010 8015 MOD./418.1
MW2 @ 12'			2/7/90		TUH/BXE	8015/8020
MW3 @ 6'			2/8/90		TUH/BXE	8015/8020
MW3 @ 9'			2/8/90		TUH/BXE TEH/TOG	8015/8020 8015 MOD./418.1
MW4 @ 4.5'			2/8/90		TUH/BXE	8015/8020
MW4 @ 10.5'	↓	↓	2/8/90		TUH/BXE TEH/TOG	8015/8020 8015 MOD./418.1

* * * * *

Released by: [Signature] Date: 2-14-90
 Released by Courier: _____ Date: _____
 Received by Laboratory: S/M P. 90 Date: 2-14-90
 Relinquished by Laboratory: _____ Date: _____
 Received by: _____ Date: _____

¹ Sample Type: W = water, S = soil, O = other (specify)
² Container Type: V = VOA, P = plastic, G = glass, T = brass tube,
 O = other (specify)

Notes to Laboratory:
 -Notify SCI if there are any anomalous peaks on GC or other scans
 -Questions/clarifications...contact SCI at (415) 268-0461

Subsurface Consultants

CHAIN OF CUSTODY RECORD & ANALYTICAL TEST REQUEST

Project Name: 98th & EDES, PHASE 2
 SCI Job Number: 272.016
 Project Contact at SCI: BILL WIKANER
 Sampled By: JOHN WOLFE
 Analytical Laboratory: EUREKA LABORATORIES, INC.
 Analytical Turnaround: 10 DAY

Sample ID	Sample Type ¹	Container Type ²	Sampling Date	Hold	Analysis	Analytical Method
MW4 013.5'	SOIL	BRASS TUBE	2/8/90		TUH/BTXE	8015/8020
MW5 09'			2/9/90		TUH/BTXE TEH/TOG	8015/8020 8015MOD/418.1
MW5 011'			2/9/90		TUH/BTXE	8015/8020
15 06'			2/9/90			
15 09.5'			2/9/90			
15 010.5'			2/9/90			
16 04'			2/9/90			
16 07'			2/9/90			
16 011.5'			2/9/90			
17 08.5'			2/9/90			

* * * * *

Released by: [Signature] Date: _____
 Released by Courier: _____ Date: _____
 Received by Laboratory: Shaw-P. [Signature] Date: 2-12-90
 Relinquished by Laboratory: _____ Date: _____
 Received by: _____ Date: _____

¹ Sample Type: W = water, S = soil, O = other (specify)
² Container Type: V = VOA, P = plastic, G = glass, T = brass tube,
 O = other (specify)

Notes to Laboratory:
 -Notify SCI if there are any anomalous peaks on GC or other scans.
 -Questions/clarifications...contact SCI at (415) 268-0461

Subsurface Consultants

CHAIN OF CUSTODY RECORD & ANALYTICAL TEST REQUEST

Project Name: 98th EDES, PHASE 2
 SCI Job Number: 272.016
 Project Contact at SCI: BILL WIKANER
 Sampled By: JOHN WOLFE
 Analytical Laboratory: EUREKA LABORATORIES, INC.
 Analytical Turnaround: 10 DAY

Sample ID	Sample Type ¹	Container Type ²	Sampling Date	Hold	Analysis	Analytical Method
17010'	SOIL	BRASS TUBE	2/9/90		TVH/BTXE	8015/8020
17011.5'	↓	↓	2/9/90		↓	↓
1808'	↓	↓	2/9/90		↓	↓
1809.5'	↓	↓	2/9/90		TVH BTXE TEH TOG	8015 8020 8015 MOD. 418.1
18011.5'	↓	↓	2/9/90		TVH BTXE	8015 8020
19010'	↓	↓	2/9/90		↓	↓
2009'	↓	↓	2/9/90		↓	↓
21075'	↓	↓	2/9/90		TVH/BTXE	8015/8020
2109.5'	↓	↓	2/9/90		TVH/BTXE TEH/TOG	8015/8020 8015 MOD. / 418.1
21011.5'	↓	↓	2/9/90		TVH/BTXE	8015/8020
21013'	↓	↓	2/9/90		TVH/BTXE	8015/8020

Released by: [Signature] Date: _____
 Released by Courier: [Signature] Date: _____
 Received by Laboratory: Shirley Yu Date: 2-18-90
 Relinquished by Laboratory: _____ Date: _____
 Received by: _____ Date: _____

¹ Sample Type: W = water, S = soil, O = other (specify)
² Container Type: V = VOA, P = plastic, G = glass, T = brass tube, O = other (specify)

Notes to Laboratory:
 -Notify SCI if there are any anomalous peaks on GC or other scans
 -Questions/clarifications...contact SCI at (415) 268-0461

Subsurface Consultants

CHAIN OF CUSTODY RECORD & ANALYTICAL TEST REQUEST

Project Name: 98th & EDES, PHASE 2

SCI Job Number: 272.016

Project Contact at SCI: BILL WIKAUER

Sampled By: JOHN WOLFE

Analytical Laboratory: EUREKA LABORATORIES, INC.

Analytical Turnaround: 10 DAY

Sample ID	Sample Type ¹	Container Type ²	Sampling Date	Hold	Analysis	Analytical Method
MW1	WATER	VOA	2/12/90		TVH	8015
		1L GLASS JAR			TEH	8015 MOD.
		1L GLASS JAR			TOG	418.1
		VOA			BTXE	602
		VOA			PURG. HALO.	601

* * * * *

Released by: [Signature] Date: _____

Released by Courier: _____ Date: _____

Received by Laboratory: Shaw - K 9/2 Date: 2-14-90

Relinquished by Laboratory: _____ Date: _____

Received by: _____ Date: _____

¹ Sample Type: W = water, S = soil, O = other (specify)
² Container Type: V = VOA, P = plastic, G = glass, I = brass tube,
 O = other (specify)

Notes to Laboratory:
 -Notify SCI if there are any anomalous peaks on GC or other scans
 -For additional clarifications, contact SCI at (415) 266-0460

Subsurface Consultants

CHAIN OF CUSTODY RECORD & ANALYTICAL TEST REQUEST

Project Name: 98th & EDES, PHASE 2
 SCI Job Number: 272.016
 Project Contact at SCI: BILL WIKAUER
 Sampled By: JOHN WOLFE
 Analytical Laboratory: EUREKA LABORATORIES, INC.
 Analytical Turnaround: 10 DAY

Sample ID	Sample Type ¹	Container Type ²	Sampling Date	Hold	Analysis	Analytical Method
MWZ	WATER	VOA	2/13/90		TUH	8015
		1L GLASS JAR			TEH	8015 MOD. ^{Missing}
		1L GLASS JAR			TDG	418.1
		VOA			BIXE	602
		VOA			TOEG. HALO.	601

* * * * *

Released by: John Wolfe Date: _____
 Released by Courier: _____ Date: _____
 Received by Laboratory: Shirley Date: 2-18-90
 Relinquished by Laboratory: _____ Date: _____
 Received by: _____ Date: _____

¹ Sample Type: W = water, S = soil, O = other (specify)
² Container Type: V = VOA, P = plastic, G = glass, T = brass tube,
 O = other (specify)

Notes to Laboratory:
 -Notify SCI if there are any anomalous peaks on GC or other scans.
 -For additional clarifications, contact SCI at (415) 208-0463

Subsurface Consultants

CHAIN OF CUSTODY RECORD & ANALYTICAL TEST REQUEST

Project Name: 98th & EDES, PHASE 2
 SCI Job Number: 272.016
 Project Contact at SCI: BILL WIKAUER
 Sampled By: JOHN WOLFE
 Analytical Laboratory: EUREKA LABORATORIES, INC.
 Analytical Turnaround: 10 DAY

Sample ID	Sample Type ¹	Container Type ²	Sampling Date	Hold	Analysis	Analytical Method
MW3	WATER	VOA	2/13/90		TVH	8015
		1L GLASS JAR			TEH	8015 MOD.
		1L GLASS JAR			TOG	418.1
		VOA			BIXE	602
		VOA			REG. HALO.	601

* * * * *

Released by: [Signature] Date: _____
 Released by Courier: _____ Date: _____
 Received by Laboratory: Shan P. [Signature] Date: 2-14-90
 Relinquished by Laboratory: _____ Date: _____
 Received by: _____ Date: _____

¹ Sample Type: W = water, S = soil, O = other (specify)
² Container Type: V = VOA, P = plastic, G = glass, T = brass tube,
 O = other (specify)

Notes to Laboratory:
 -Notify SCI if there are any anomalous peaks on GC or other scans.
 -For further clarifications... contact SCI at (415) 266-0461

Subsurface Consultants

CHAIN OF CUSTODY RECORD & ANALYTICAL TEST REQUEST

Project Name: 98th & EDES, PHASE 2

SCI Job Number: 272.016

Project Contact at SCI: BILL WIKAUER

Sampled By: JOHN WOLFE

Analytical Laboratory: EUREKA LABORATORIES, INC.

Analytical Turnaround: 10 DAY

Sample ID	Sample Type ¹	Container Type ²	Sampling Date	Hold	Analysis	Analytical Method
MW4	WATER	VOA	2/13/90		TVH	8015
		1L GLASS JAR			TEH	8015 MOD.
		1L GLASS JAR			TOG	418.1
		VOA			BIXE	602
		VOA			REG. HALO.	601

* * * * *

Released by: [Signature] Date: _____

Released by Courier: _____ Date: _____

Received by Laboratory: Shook-ye Date: 2-4-90

Relinquished by Laboratory: _____ Date: _____

Received by: _____ Date: _____

¹ Sample Type: W = water, S = soil, O = other (specify)
² Container Type: V = VOA, P = plastic, G = glass, T = brass tube,
 O = other (specify)

Notes to Laboratory:
 -Notify SCI if there are any anomalous peaks on GC or other scans.
 -For further clarifications, contact SCI at (415) 266-0401

Subsurface Consultants

CHAIN OF CUSTODY RECORD & ANALYTICAL TEST REQUEST

Project Name: 98th & EDES, PHASE 2
 SCI Job Number: 272.016
 Project Contact at SCI: BILL WIKANDER
 Sampled By: JOHN WOLFE
 Analytical Laboratory: EUREKA LABORATORIES, INC.
 Analytical Turnaround: 10 DAY

Sample ID	Sample Type ¹	Container Type ²	Sampling Date	Hold	Analysis	Analytical Method
MW5	WATER	VOA	2/13/90		TVH	8015
		1L GLASS JAR			TEH	8015 MOD.
		1L GLASS JAR			TOG	418.1
		VOA			BIXE	602
		VOA			REG. HALO.	601

* * * * *

Released by: [Signature] Date: _____
 Released by Courier: _____ Date: _____
 Received by Laboratory: Shan-K- 670 Date: 2-18-90
 Relinquished by Laboratory: _____ Date: _____
 Received by: _____ Date: _____

¹ Sample Type: W = water, S = soil, O = other (specify)
² Container Type: V = VOA, P = plastic, G = glass, T = brass tube,
 O = other (specify)

Notes to Laboratory:
 -Notify SCI if there are any anomalous peaks on GC or other scans.
 -Questions/clarifications, contact SCI at (415) 266-6461

Subsurface Consultants

CHAIN OF CUSTODY RECORD & ANALYTICAL TEST REQUEST

Project Name: 98th & EDES, PHASE 2
 SCI Job Number: 272.016
 Project Contact at SCI: BILL WIKANDE
 Sampled By: JOHN WOLFE
 Analytical Laboratory: EUREKA LABORATORIES, INC.
 Analytical Turnaround: 10 DAY

Sample ID	Sample Type ¹	Container Type ²	Sampling Date	Hold	Analysis	Analytical Method
18	WATER	VOA	2/14/90		TVH	8015
		1L GLASS JAR			TEH	8015 MOD.
		1L GLASS JAR			TOG	418.1
		VOA			BTXE	602
		VOA			REG. HALO.	601

* * * * *

Released by: [Signature] Date: _____
 Released by Courier: _____ Date: _____
 Received by Laboratory: Shawn K. [Signature] Date: 2-18-90
 Relinquished by Laboratory: _____ Date: _____
 Received by: _____ Date: _____

¹ Sample Type: W = water, S = soil, O = other (specify)
² Container Type: V = VOA, P = plastic, G = glass, T = brass tube, O = other (specify)

Notes to Laboratory:
 -Notify SCI if there are any abnormal peaks on GC or other tests
 -Request clarifications... contact SCI at (415) 261-0401