

AR00001

TABLE 1

TOTAL CONCENTRATION OF SELECTED METALS IN SLAG AND SOIL SAMPLES
(Concentrations in milligram/kilogram, ppm)

SAMPLE NO.	SAMPLING INTERVAL (ft)	ARSENIC	BERYLLIUM	CADMIUM	COPPER	LEAD	MERCURY	ZINC
W-1 #1	4-5.5	11	TR<1 ^(a)	0.1	52	3	1	16
<i>Slag File</i> B-1 #1	4.5-6	31	98	15	10,200	3,000	60	63,600
<i>Slag File</i> B-1 #3	15.5-16	2,060	TR<1	1	68	20	9	209
<i>Slag File</i> B-1 #4	19.5-21	3.6	0.37	<0.3	11	6.8	0.004	9.8
B-1 #5	24.5-26	1.7	TR<0.3	<0.3	22	5.8	0.014	14
<i>Slag File</i> B-2 #1	4.5-6	40	93	17	9,700	1,700	67	79,000
B-2 #3	14.0-15.5	136	TR<1	3	51	8	3	111
B-2 #4	19.0-20.5	3.2	0.6	1.5	13	14	0.0007	37
B-2 #5	24.0-25.5	2.5	0.8	2.2	20	20	0.020	47
TTLIC		500	75	100	2,500	1,000	20	5,000

(a) TR-Trace, this element was present, but was below the level at which concentration could be determined.

0033-T1R1

TABLE 2

SELECTED RESULTS OF WASTE EXTRACTION TEST (WET)
ON A SLAG SAMPLE
(Concentrations in milligram/liter, ppm)

SAMPLE NO.	SAMPLE DEPTH (ft).	BERYLLIUM	CADMIUM	COPPER	LEAD	MERCURY	ZINC
B-1 #1	4.5-6	1.6	1.5	330	180	0.01	2,700
STLC		0.75	1.0	25	5.0	0.2	250

TABLE 3

CONCENTRATIONS OF SELECTED
ORGANIC COMPOUNDS IN GROUND-WATER SAMPLES
(microgram/liter, ppb)

<u>COMPOUND</u>	<u>WELL IDENTIFICATION NUMBERS</u>	
	<u>W-1</u>	<u>W-3</u>
1,1,1-Trichloroethane (TCA)	13	ND ¹
Tetrachloroethene (PCE)	21	38
Trichloroethene (TCE)	110	84

¹ND - Not Detected

TABLE 4

CONCENTRATIONS OF SELECTED
INORGANIC ELEMENTS IN GROUND-WATER SAMPLES
(milligram/liter, ppm)

<u>ELEMENT</u>	<u>WELL IDENTIFICATION NUMBER</u>			<u>EPA DRINKING WATER STANDARD</u>
	<u>W-1</u>	<u>W-2</u>	<u>W-3</u>	
Antimony	<0.5	TR<0.5 ^(c)	1.5	0.01 ^a
Beryllium	<0.03	<0.03	<0.03	-
Arsenic	0.21	19.7	0.40	0.05 ^a
Cadmium	<0.03	<0.03	<0.03	0.01 ^a
Chromium	0.4	0.2	<0.1	0.05 ^a
Copper	<0.08	0.08	<0.08	1.0 ^b
Lead	<0.2	<0.2	<0.2	0.05 ^a
Mercury	TR<0.001	0.006	0.001	0.002 ^a
Selenium	0.02	0.02	0.59	0.01 ^a
Zinc	0.1	TR<0.1	TR<0.1	5.0 ^b

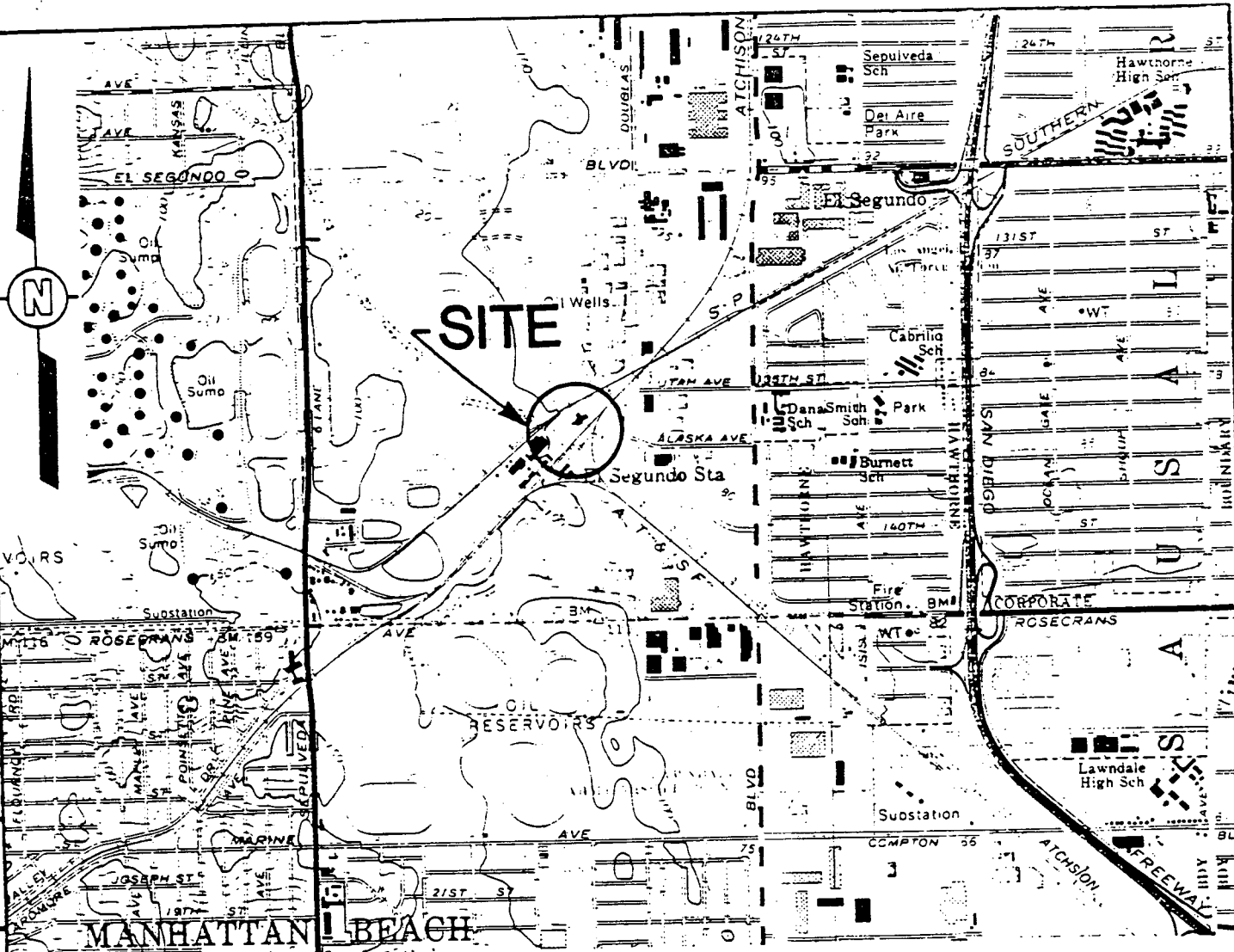
(a) Maximum permissible concentration limits.

(b) Recommended concentration limits (these concentrations are mainly to provide acceptable esthetic and taste).

(c) TR-Trace, this element was present, but was below the level at which concentration could be determined.

FIGURES

DRAWN BY
12-13-86
CHECKED BY
E.E.
APPROVED BY
E.E.
DRAWING NUMBER
850150-A1
2/24/88
3/10/86



QUADRANGLE
LOCATION

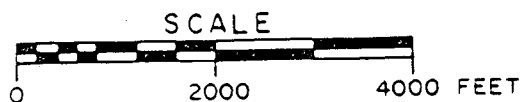


FIGURE 1

SITE LOCATION MAP

PREPARED FOR

H. KRAMER AND COMPANY
EL SEGUNDO, CALIFORNIA

REFERENCE:

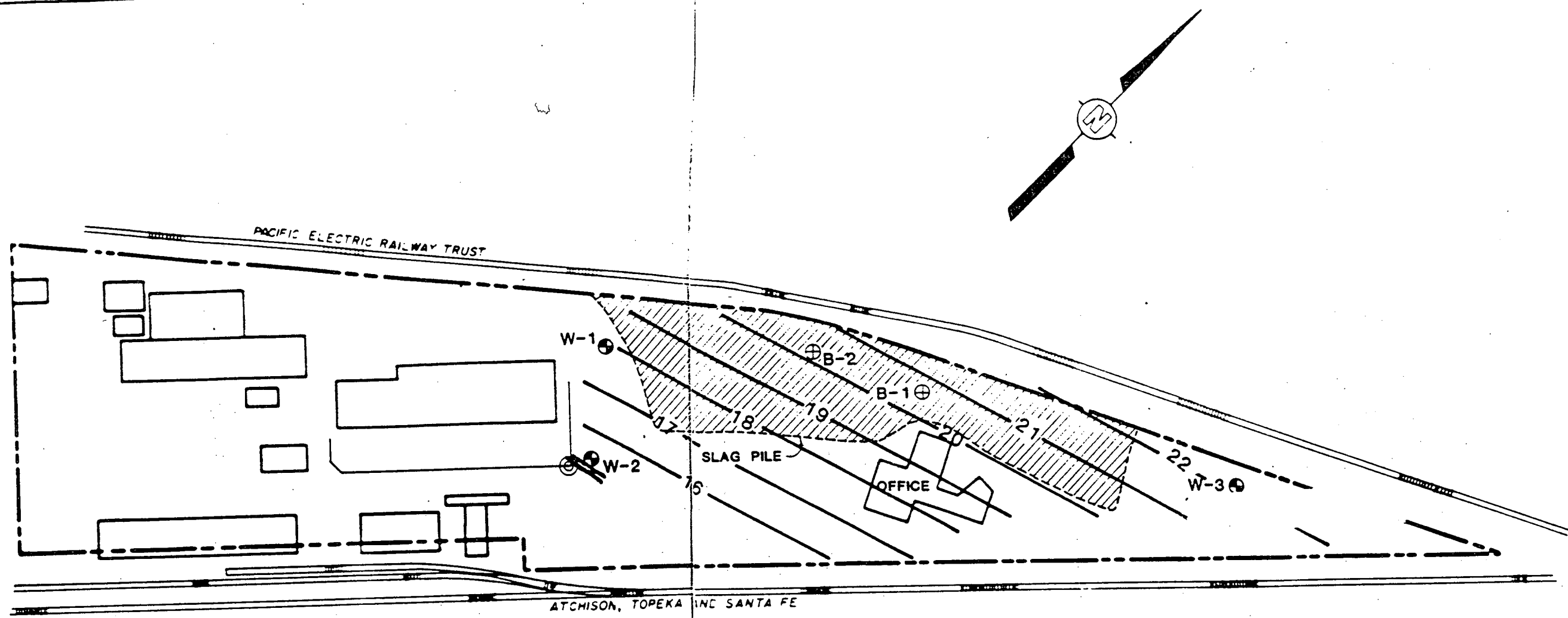
7.5 MINUTE U.S.G.S. TOPOGRAPHIC MAPS OF
VENICE AND INGLEWOOD, CALIFORNIA QUADRANGLE
DATED: 1964 AND 1964, PHOTOREVISED: 1981 AND 1981
SCALE 1:24,000

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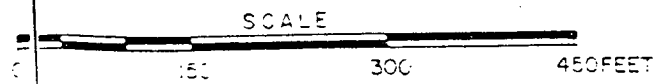
DRAWN BY: J.Y.D.
 CHECKED BY: S.E.
 APPROVED BY: S.E.
 DRAWING NUMBER: 850150-B1
 DATE: 7/11/76
 DATE: 9/11/76



LEGEND

- ⊙ EAST CORNER OF LOADING DOCK WITH ASSIGNED ARBITRARY ELEVATION OF 100 FEET
- W-1 ⊕ MONITORING WELL
- B-1 ⊕ SHALLOW BORING
- 19 — GROUND WATER CONTOUR BASED ON ARBITRARY DATUM OF ELEVATION 100 FEET

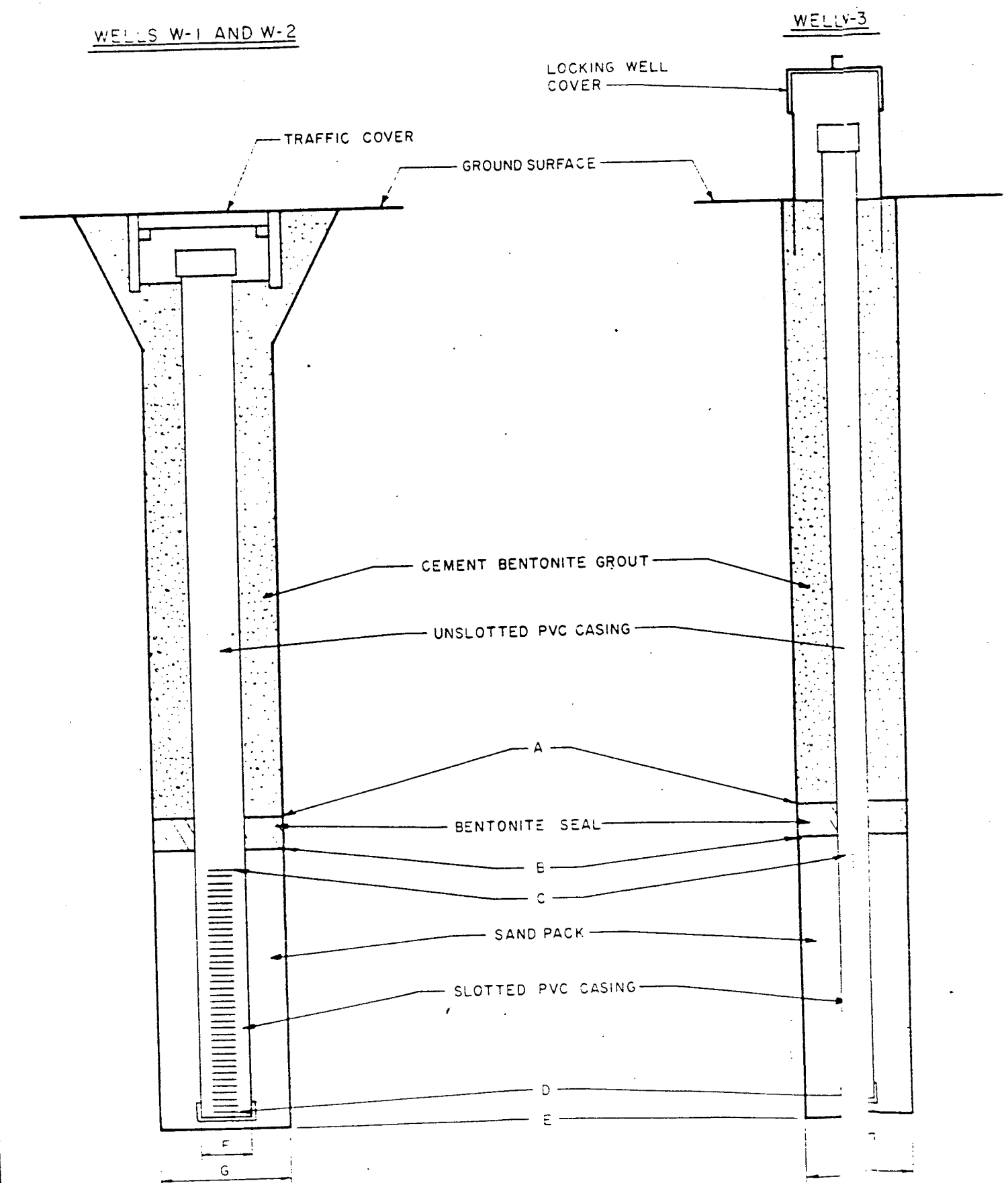
REFERENCE
 A.L.T.A. SURVEY BY:
 JENNINGS ENGINEERING CO.
 FOR H. KRAMER & CO., 9/13/84



Creating a Safer Tomorrow

FIGURE 2
 SITE PLAN, LOCATION OF
 MONITORING WELLS, AND
 GROUND WATER CONTOURS
 1-15-86
 PREPARED FOR
 H. KRAMER & COMPANY
 EL SEGUNDO, CALIFORNIA

DRAWING NUMBER 850150-B1
 2/21/86
 2/21/86
 E.E.
 E.G.
 CHECKED BY
 APPROVED BY
 I.V.H.
 1-25-86
 DRAWN BY



MONITORING WELL	CONSTRUCTION DETAILS						
	A	B	C	D	E	F	G
W-1	67	69	75	95	95	4	10
W-2	63	65	74	95	95	4	10
W-3	52	54	60	80	80	4	10

- LEGEND:**
- A DEPTH TO TOP OF BENTONITE SEAL (ft)
 - B DEPTH TO TOP OF SAND PACK (ft)
 - C DEPTH TO TOP OF WELL SCREEN (ft)
 - D DEPTH TO BOTTOM OF WELL SCREEN (ft)
 - E DEPTH TO BOTTOM OF BORING (ft)
 - F CASING DIAMETER (in)
 - G BOREHOLE DIAMETER (in)

NOT TO SCALE

FIGURE 3
WELL CONSTRUCTION DETAILS
 PREPARED FOR
H. KRAMER & COMPANY
 EL SEGUNDO, CALIFORNIA

APPENDIX A
BORING LOGS

DEPTH IN FEET	LABORATORY TEST DATA										PENETRATION RESISTANCE (BLOWS/FT) SAMPLE		USCS	PROFILE	DESCRIPTION
	TESTS REPORTED ELSEWHERE	ATTERBERG LIMITS		STRENGTH TEST DATA					MOISTURE CONTENT (%)	DRY DENSITY (PSF)					
		LIQUID LIMIT (%)	PLASTICITY INDEX (%)	TYPE OF TEST	NORMAL OR CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)	SHEAR STRENGTH (PSF)								
0															Very stiff to hard, rusty black to black SLAG, moist.
5															
10															 Saturated from 10 feet.
15															12.75' Very stiff, black CLAY, saturated
20															17.5' Dense to very dense, light brown SILTY SAND, moist.
25															
30															
35															
40															
45															
50															
55															
60															
65															
70															
															TOTAL DEPTH - 26.0 FEET

BORING NO. B-1

COORDINATES N For approximate location,
E see Figure 2.

FIELD ENGINEER J. Hermes DATE BEGAN 12/12/85
 EDITED BY E. Esmaili DATE FINISHED 12/03/85
 CHECKED BY L. Allen GROUND SURFACE EL. Not measured

PROJECT NO. 850150-81
 CLIENT H. Kramer
 SEE LEGEND FOR LOGS AND TEST PITS
 FOR EXPLANATION OF SYMBOLS AND TERMS



... Creating a Safer Tomorrow

DEPTH IN FEET	LABORATORY TEST DATA										PENETRATION RESISTANCE (BLOWS/FT) SAMPLE		USCS	PROFILE	DESCRIPTION
	TESTS REPORTED ELSEWHERE	ATTERBERG LIMITS		STRENGTH TEST DATA				MOISTURE CONTENT (%)	DRY DENSITY (PSF)						
		LIQUID LIMIT (%)	PLASTICITY INDEX(%)	TYPE OF TEST	NORMAL OR CONFINING PRESSURE(PSF)	DEVIATOR STRESS (PSF)	SHEAR STRENGTH (PSF)								
0														Very stiff to hard, rusty black SLAG, moist	
5															
10															
11.5'														Medium dense, brown SAND, saturated	
13.75'														Stiff, medium brown CLAY, saturated.	
17.75'														Very stiff to hard, brown SILTY CLAY, dry to moist.	
25.5'														TOTAL DEPTH - 25.5 FEET	
30															
35															
40															
45															
50															
55															
60															
65															
70															

BORING NO. B-2

COORDINATES N For approximate location,
E see Figure 2.

FIELD ENGINEER J. Hermes DATE BEGAN 12/03/85
EDITED BY E. Esmaili DATE FINISHED 12/04/85
CHECKED BY L. Allen GROUND SURFACE EL. Not measured



Creating a Safer Tomorrow

DEPTH IN FEET	LABORATORY TEST DATA										PENETRATION RESISTANCE (BLOWS/FT) SAMPLE		USCS	PROFILE	DESCRIPTION
	TESTS REPORTED ELSEWHERE	ATTERBERG LIMITS		STRENGTH TEST DATA				MOISTURE CONTENT (%)	DRY DENSITY (PSF)						
		LIQUID LIMIT (%)	PLASTICITY INDEX (%)	TYPE OF TEST	NORMAL OR CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)	SHEAR STRENGTH (PSF)								
70											70	SE		Dense, brown SILTY fine SAND, moist.	
75															
80											9				
											52			Water level was measured on 1/15/86	
85														Thin clay layers from 84.5 feet to 89.5 feet.	
90											10				
											64				
95											11	cl		Very stiff, gray SILTY CLAY, saturated	
											26			92.5'	
100														TOTAL DEPTH - 95.5 FEET	
105															
110															
115															
120															
125															
130															
135															
140															

BORING NO. W-1

COORDINATES N For approximate location, see Figure 2.
E

FIELD ENGINEER J. Hermes DATE BEGAN 12/02/85
EDITED BY E. Esmaili DATE FINISHED 12/03/85
CHECKED BY L. Allen GROUND SURFACE EL 99.64
Relative

DESCRIPTION

Dense, brown SILTY fine SAND, moist.

Water level was measured on 1/15/86

Thin clay layers from 84.5 feet to 89.5 feet.

Very stiff, gray SILTY CLAY, saturated

TOTAL DEPTH - 95.5 FEET



DEPTH IN FEET	LABORATORY TEST DATA						BORING NO. W-2				
	TESTS REPORTED ELSEWHERE	ATTERBERG LIMITS		MOISTURE CONTENT (%)	DRY DENSITY (PSF)	PERMEABILITY (cm/sec)	WELL SUMMARY	SAMPLE	USCS	PROFILE	
		LIQUID LIMIT (%)	PLASTICITY INDEX (%)								
0											6" ASPHALT
											Localized hard rocky zone, probably fill materials.
6											Dark brown CLAYEY SILT, moist.
											Loose, reddish brown SILTY medium SAND, moist.
10											
15											
20											Medium dense and well sorted from 20 feet.
25											
30											Dense, brown SILTY medium SAND from 30 feet.
35											
40											Very dense and clean from 40 feet.
45											
50											Silty fine sand from 50 feet.
55											
60											
65											Very dense, brown SANDY SILT, moist.
70											

PROJECT NO. 850150-W2
CLIENT H. Kramer



... Creating a Safer Tomorrow

SEE LEGEND FOR LOGS AND TEST PITS
FOR EXPLANATION OF SYMBOLS AND TERMS

DEPTH IN FEET	LABORATORY TEST DATA										PENETRATION RESISTANCE (BLOWS/FT) SAMPLE		USCS	PROFILE	DESCRIPTION
	TESTS REPORTED ELSEWHERE	ATTERBERG LIMITS		STRENGTH TEST DATA				MOISTURE CONTENT (%)	DRY DENSITY (PBF)						
		LIQUID LIMIT (%)	PLASTICITY INDEX(%)	TYPE OF TEST	NORMAL OR CONFINING PRESSURE(PSF)	DEVIATOR STRESS (PSF)	SHEAR STRENGTH (PSF)								
70											100	ml		Very dense, brown SANDY SILT, moist.	
75															
80											8			Wet from 80 feet.	
											100			Water level was measured on 1/15/85	
														82.25'	
85											9	ml		Dense, light brown CLAYEY SILT, saturated	
											65				
90											10			Medium brown from 90 feet.	
											70				
95											11			A silty sand layer at 94 feet.	
											23	ch		Very stiff, medium brown CLAY, wet.	
														94.5'	
														TOTAL DEPTH - 95.5 FEET	
100															
105															
110															
115															
120															
125															
130															
135															
140															

BORING NO. W-2

COORDINATES

N For approximate location,
 E see Figure 2.

FIELD ENGINEER J. Hermes

DATE BEGAN 12/02/85

EDITED BY E. Esmaili

DATE FINISHED 12/03/85

CHECKED BY L. Allen

GROUND SURFACE EL. 99.64'

Relative



DEPTH IN FEET	LABORATORY TEST DATA										PENETRATION RESISTANCE (BLOWS/FT) SAMPLE		USCS PROFILE	DESCRIPTION
	TESTS REPORTED ELSEWHERE	ATTERBERG LIMITS		STRENGTH TEST DATA				MOISTURE CONTENT (%)	DRY DENSITY (PSF)					
		LIQUID LIMIT (%)	PLASTICITY INDEX (%)	TYPE OF TEST	NORMAL OR CONFINING PRESSURE (PSF)	DEVIATOR STRESS (PSF)	SHEAR STRENGTH (PSF)							
0														Very stiff, medium brown SILTY CLAY, trace of gravel, dry to moist. (FILL)
5											1 38			
10											2 11	SM		Loose, orange brown SILTY SAND, moist. 8.25'
15														
20											3 48			Medium dense and dark brown from 20 feet.
25														
30											4 95			Very dense and brown medium grained from 30 feet.
35														
40											5 100			
45														
50											6 110			Fine sand from 50 feet.
55														
60											7 82			
65														A gravel layer from about 65 feet to about 68 feet.
68														Water level was measured on 1/15/85
68.0'														
70											8 cl			Hard, medium brown SILTY CLAY, saturated

BORING NO. W-3

COORDINATES N For approximate location, E see Figure 2.

FIELD ENGINEER J. Hermes DATE BEGAN 12/05/85
 EDITED BY E. Esmat DATE FINISHED 12/06/85
 CHECKED BY L. Allen GROUND SURFACE EL. 92.11'
 Relative

APPENDIX B
CERTIFICATES OF ANALYSIS



INTERNATIONAL
TECHNOLOGY
CORPORATION

ANALYTICAL SERVICES

17605 Fabrica Way • Cerritos, California 90701 • 213-921-9831 / 714-523-9200



CERTIFICATE OF ANALYSIS

Prepared For:

IT Corporation - H. Kramer
17500 Redhill Ave., Suite 200
Irvine, CA 92714

Date:

February 24, 1986

Attn: Essi Esmaili

Date Received:

December 3, 1985

P.O. Number:

850150

Job Number:

35209/rjc

CORRECTED REPORT

Five (5) soil samples.

The samples were digested with acid and analyzed for metal content using ICP and AAS techniques. The results are listed in Table I.

The sample labeled "B-1 #1" was extracted for soluble Threshold Limit Concentration according to Title 22:66699. The results are listed in Table II.

The samples were also analyzed for volatile and semi-volatile organic contaminants using combined gas chromatography-mass spectrometry according to EPA Methods 8240 and 8270. Results for compounds on the EPA Hazardous Substances List are given on the enclosed summary sheets.

Contaminants not on the EPA Hazardous Substance List are listed in Table III.

In addition, the samples were analyzed for organochlorine pesticides and PCB's on a Varian gas chromatograph equipped with an electron capture detector. The samples were extracted according to EPA Method 608 and the extracts were analyzed by direct injection into the gas chromatograph. The results are listed on the following summary sheets.

I certify that this report truly represents the finding of
work performed by me or under my direct supervision.

Byron Thomas
Chemist

Reviewed and Approved

Steve Jones, Ph.D.
Technical Director

IT Corporation
E. Esmaili

February 24, 1986
JN: 35209 - Page 2

Table I

	<u>Milligrams/kilogram</u>				
	<u>W-1 #1</u>	<u>B-1 #3</u>	<u>B-1 #1</u>	<u>B-2 #1</u>	<u>B-2 #3</u>
Cobalt	3	4	22	28	9
Silver	ND<0.1	ND<0.1	1.5	3	ND<0.1
Arsenic	11	2060	31	40	136
Selenium	0.3	4	TR<0.1	0.1	TR<0.1
Antimony	TR<1	50	11	ND<1	6
Beryllium	TR<1	TR<1	98	93	TR<1
Cadmium	1	1	15	17	3
Chromium	7	8	50	44	18
Copper	52	68	1.02%*	9700	51
Lead	3	20	3000	2700	8
Nickel	4	7	106	155	12
Zinc	16	209	6.36%*	7.9%*	111
Thallium	TR<5	TR<5	TR<5	10	6
Molybdenum	TR<1	TR<1	22	19	1
Vanadium	16	13	23	25	35
Barium	58	58	190	246	167
Mercury	1	9	60	67	3

* - Value in percent.

ND - This compound was not detected; the limit of detection for this analysis is less than the amount stated in the table above.

TR - Trace, this compound was present, but was below the level at which concentration could be determined.

IT Corporation
E. Esmaili

February 24, 1986
JN: 35209 - Page 3

Table II

	<u>Milligrams/liter</u>
	<u>B-1 #1 Extract</u>
Cobalt	0.9
Silver	ND<0.1
Arsenic	ND<5
Selenium	ND<1
Antimony	9
Beryllium	1.6
Cadmium	1.5
Chromium	2.9
Copper	330
Lead	180
Nickel	4
Zinc	2700
Thallium	ND<5
Molybdenum	TR<1
Vanadium	TR<1
Barium	5
Mercury	0.01*

Table III

	<u>Micrograms/kilogram</u>
<u>Contaminant</u>	<u>B-2 #3</u>
2-Methyl-1-heptene	260
3-Methyl-cyclohexanone	60
3,6-Dimethyl-Undecane	12
Unknowns	780

* - Corrected result.

ND - This compound was not detected; the limit of detection for this analysis is less than the amount stated in the table above.

TR - Trace, this compound was present, but was below the level at which concentration could be determined.

SAMPLE IDENTIFICATION: B-2#3
DATE ANALYZED: 12/04/85
UNITS: UG/KG

CAS #	COMPOUND	CONC
=====	=====	=====
71-43-2	BENZENE	5. ND
56-23-5	CARBON TETRACHLORIDE	5. ND
108-90-7	CHLOROBENZENE	5. ND
107-06-2	1,2-DICHLOROETHANE	5. ND
71-55-6	1,1,1-TRICHLOROETHANE	5. ND
75-34-3	1,1-DICHLOROETHANE	5. ND
79-00-5	1,1,2-TRICHLOROETHANE	5. ND
79-34-5	1,1,2,2-TETRACHLOROETHANE	5. ND
75-00-3	CHLOROETHANE	5. ND
110-75-8	2-CHLOROETHYL VINYL ETHER	50. ND
67-66-3	CHLOROFORM	5. ND
75-35-4	1,1-DICHLOROETHENE	5. ND
156-60-5	TRANS-1,2-DICHLOROETHENE	5. ND
78-87-5	1,2-DICHLOROPROPANE	5. ND
10061-02-6	TRANS-1,3-DICHLOROPROPENE	5. ND
10061-01-5	CIS-1,3-DICHLOROPROPENE	5. ND
100-41-4	ETHYLBENZENE	5. ND
75-09-2	METHYLENE CHLORIDE	5. ND
74-87-3	CHLOROMETHANE	5. ND
74-83-9	BROMOMETHANE	5. ND
75-25-2	BROMOFORM	5. ND
75-27-4	BROMODICHLOROMETHANE	5. ND
124-48-1	CHLORODIBROMOMETHANE	5. ND
127-18-4	TETRACHLOROETHENE	5. ND
108-88-3	TOLUENE	5. ND
79-01-6	TRICHLOROETHENE	5. ND
75-01-4	VINYL CHLORIDE	5. ND
67-64-1	ACETONE	50. ND
78-93-3	2-BUTANONE	50. ND
75-15-0	CARBON DISULFIDE	5. ND
519-78-6	2-HEXANONE	5. ND
108-10-1	4-METHYL-2-PENTANONE	5. ND
100-42-5	STYRENE	5. ND
108-05-4	VINYL ACETATE	5. ND
95-47-6	TOTAL XYLENES	5. ND
106-93-4	ETHYLENE DIBROMIDE	5. ND

ND - THIS COMPOUND WAS NOT DETECTED; THE LIMIT OF DETECTION FOR THIS COMPOUND IS STATED TO THE LEFT OF THE ND SPECIFIER.

TR - TRACE, THIS COMPOUND WAS PRESENT, BUT WAS BELOW THE LEVEL AT WHICH THE CONCENTRATION COULD ACCURATELY BE DETERMINED. THE APPROXIMATE CONCENTRATION IS REPORTED FOR YOUR REFERENCE.

Lab Name : IT CERRITOS
Case No : ..J# 35209.....

ORGANICS ANALYSIS DATA SHEET
(Page 2)

Sample Number
~~8-2 #3~~

Semivolatile Compound:

Concentration: Low Medium (Circle One)
Date Extracted: 5 DEC 85
Date Analyzed: 12/06/85 13:10
Conc/Oil Factor: 1
Percent Moisture (Decanted)

GPC Cleanup ☐ Yes ☐ No
Separatory Funnel Extraction ☐ Yes
Continuous Liquid-Liquid Extraction ☐ Yes

C.A.S. Number	ug/L or <u>ug/Kg</u> (Circle One)	C.A.S. Number	ug/L or <u>ug/Kg</u> (Circle One)
108-95-2	Phenol 10.U	83-32-9	Acenaphthene 10.U
111-44-4	bis(-2-Chloroethyl)Ether 10.U	51-28-5	2,4-Dinitrophenol 50.U
95-57-8	2-Chlorophenol 10.U	100-02-7	4-Nitrophenol 50.U
541-73-1	1,3-Dichlorobenzene 10.U	132-64-9	Dibenzofuran 10.U
106-46-7	1,4-Dichlorobenzene 10.U	121-14-2	2,4-Dinitrotoluene 10.U
100-51-6	Benzyl Alcohol 1.U	606-20-2	2,6-Dinitrotoluene 10.U
95-50-1	1,2-Dichlorobenzene 10.U	84-66-2	Diethylphthalate 1.U
95-48-7	2-Methylphenol 2.U	7005-72-3	4-Chlorophenyl-phenylether 10.U
39638-32-9	bis(2-chloroisopropyl)Ether 10.U	86-73-7	Fluorene 10.U
106-44-5	4-Methylphenol 10.U	100-01-6	4-Nitroaniline 10.U
621-64-7	N-Nitroso-Di-n-Propylamine 10.U	534-52-1	4,6-Dinitro-2-Methylphenol 50.U
67-72-1	Hexachloroethane 10.U	86-30-6	N-Nitrosodiphenylamine (1) 10.U
98-95-3	Nitrobenzene 10.U	101-55-3	4-Bromophenyl-phenylether 10.U
78-59-1	Isophorone 10.U	118-74-1	Hexachlorobenzene 10.U
88-75-5	2-Nitrophenol 10.U	87-86-5	Pentachlorophenol 50.U
105-67-9	2,4-Dimethylphenol 10.U	85-01-8	Phenanthrene 10.U
65-85-0	Benzoic Acid 50.U	120-12-7	Anthracene 10.U
111-91-1	bis(-2-Chloroethoxy)Methane 10.U	84-74-2	Di-n-Butylphthalate 10.U
120-83-2	2,4-Dichlorophenol 10.U	206-44-0	Fluoranthene 10.U
120-82-1	1,2,4-Trichlorobenzene 10.U	129-00-0	Pyrene 10.U
91-20-3	Naphthalene 10.U	85-68-7	Butylbenzylphthalate 10.U
106-47-8	4-Chloroaniline 10.U	91-94-1	3,3'-Dichlorobenzidine 20.U
87-68-3	Hexachlorobutadiene 10.U	56-55-3	Benzo(a)Anthracene 10.U
59-50-7	4-Chloro-3-Methylphenol 10.U	117-81-7	bis(2-Ethylhexyl)Phthalate 10.U
91-57-6	2-Methylnaphthalene 10.U	218-01-9	Chrysene 10.U
77-47-4	Hexachlorocyclopentadiene 10.U	117-84-0	Di-n-Octyl Phthalate 10.U
88-06-2	2,4,6-Trichlorophenol 10.U	205-99-2	Benzo(b)Fluoranthene 10.U
95-95-4	2,4,5-Trichlorophenol 50.U	207-08-9	Benzo(k)Fluoranthene 10.U
91-58-7	2-Chloronaphthalene 10.U	50-32-8	Benzo(a)Pyrene 10.U
88-74-4	2-Nitroaniline 50.U	193-39-5	Indeno(1,2,3-cd)Pyrene 10.U
131-11-3	Dimethyl Phthalate 10.U	53-70-3	Dibenzo(a,h)Anthracene 10.U
208-96-8	Acenaphthylene 10.U	191-24-2	Benzo(g,h,i)Perylene 10.U
99-09-2	3-Nitroaniline 50.U		

(1)-Cannot be separated from diphenylamine

Lab Name : IT CERRITOS
Case No : ...J# 35209.....

Sample Number :
MB120582

ORGANICS ANALYSIS DATA SHEET
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted: 5 DEC 85
Date Analyzed: 12/06/85 12:21
Conc/Dil Factor: 1
Percent Moisture (Decanted)

GPC Cleanup __ Yes __ No
Separatory Funnel Extraction __ Yes
Continuous Liquid-Liquid Extraction __ Yes

C.A.S. Number	ug/L or ug/Kg (Circle One)	C.A.S. Number	ug/L or ug/Kg (Circle One)
108-95-2	Phenol 10.U	83-32-9	Acenaphthene 10.U
111-44-4	bis(-2-Chloroethyl)Ether 10.U	51-28-5	2,4-Dinitrophenol 50.U
95-57-8	2-Chlorophenol 10.U	100-02-7	4-Nitrophenol 50.U
541-73-1	1,3-Dichlorobenzene 10.U	132-64-9	Dibenzofuran 10.U
106-46-7	1,4-Dichlorobenzene 10.U	121-14-2	2,4-Dinitrotoluene 10.U
100-51-6	Benzyl Alcohol 10.U	606-20-2	2,6-Dinitrotoluene 10.U
95-50-1	1,2-Dichlorobenzene 10.U	84-66-2	Diethylphthalate 10.U
95-48-7	2-Methylphenol 10.U	7005-72-3	4-Chlorophenyl-phenylether 10.U
39638-32-9	bis(2-chloroisopropyl)Ether 10.U	86-73-7	Fluorene 10.U
106-44-5	4-Methylphenol 10.U	100-01-6	4-Nitroaniline 10.U
621-64-7	N-Nitroso-Di-n-Propylamine 10.U	534-52-1	4,6-Dinitro-2-Methylphenol 50.U
67-72-1	Hexachloroethane 10.U	86-30-6	N-Nitrosodiphenylamine (1) 10.U
98-95-3	Nitrobenzene 10.U	101-55-3	4-Bromophenyl-phenylether 10.U
78-59-1	Isophorone 10.U	118-74-1	Hexachlorobenzene 10.U
88-75-5	2-Nitrophenol 10.U	87-86-5	Pentachlorophenol 50.U
105-67-9	2,4-Dimethylphenol 10.U	85-01-8	Phenanthrene 10.U
65-85-0	Benzoic Acid 50.U	120-12-7	Anthracene 10.U
111-91-1	bis(-2-Chloroethoxy)Methane 10.U	84-74-2	Di-n-Butylphthalate 10.U
120-83-2	2,4-Dichlorophenol 10.U	206-44-0	Fluoranthene 10.U
120-82-1	1,2,4-Trichlorobenzene 10.U	129-00-0	Pyrene 10.U
91-20-3	Naphthalene 10.U	85-68-7	Butylbenzylphthalate 10.U
106-47-8	4-Chloroaniline 10.U	91-94-1	3,3'-Dichlorobenzidine 20.U
87-68-3	Hexachlorobutadiene 10.U	56-55-3	Benzo(a)Anthracene 10.U
59-50-7	4-Chloro-3-Methylphenol 10.U	117-81-7	bis(2-Ethylhexyl)Phthalate 10.U
91-57-6	2-Methylnaphthalene 1.U	218-01-9	Chrysene 10.U
77-47-4	Hexachlorocyclopentadiene 10.U	117-84-0	Di-n-Octyl Phthalate 10.U
88-06-2	2,4,6-Trichlorophenol 10.U	205-99-2	Benzo(b)Fluoranthene 10.U
95-95-4	2,4,5-Trichlorophenol 50.U	207-08-9	Benzo(k)Fluoranthene 10.U
91-58-7	2-Chloronaphthalene 10.U	50-32-8	Benzo(a)Pyrene 10.U
88-74-4	2-Nitroaniline 50.U	193-39-5	Indeno(1,2,3-cd)Pyrene 10.U
131-11-3	Dimethyl Phthalate 10.U	53-70-3	Dibenzo(a,h)Anthracene 10.U
208-96-8	Acenaphthylene 10.U	191-24-2	Benzo(g,h,i)Perylene 10.U
99-09-2	3-Nitroaniline 10.U		

(1)-Cannot be separated from diphenylamine

IT Corporation
E. Esmaili

February 24, 1986
JN: 35209

GC PESTICIDE ANALYSIS

Method blank

SAMPLE IDENTIFICATION: 35209 - MB1205P3

DATE ANALYZED: 12-10-85

UNITS: Micrograms/kilogram (ppb)

PESTICIDES-(PP's)

alpha-BHC	ND<2
beta-BHC	ND<2
delta-BHC	ND<2
gamma-BHC (Lindane)	ND<2
Heptachlor	ND<2
Aldrin	ND<2
Heptachlor Epoxide	ND<2
Endosulfan I	ND<4
Dieldrin	ND<4
4,4'-DDE	ND<4
Endrin	ND<4
Endosulfan II	ND<4
4,4'-DDD	ND<4
Endrin Aldehyde	ND<4
Endosulfan Sulfate	ND<4
4,4'-DDT	ND<4
Methoxychlor	ND<20
Endrin Ketone	ND<4
Chlordane	ND<20
Toxaphene	ND<40
PCB-1016	ND<20
PCB-1221	ND<20
PCB-1232	ND<20
PCB-1242	ND<20
PCB-1248	ND<20
PCB-1254	ND<40
PCB-1260	ND<40

ND - This compound was not detected; the limit of detection for this analysis is less than the amount stated in the table above.

TR - Trace, this compound was present; but was below the level at which concentration could be determined.

IT Corporation
E. Esmaili

February 24, 1986
JN: 35209

GC PESTICIDE ANALYSIS

SAMPLE IDENTIFICATION: 35209 - B2, #3

DATE ANALYZED: 12-10-85

UNITS: Micrograms/kilogram (ppb)

PESTICIDES-(PP's)

alpha-BHC	ND<2
beta-BHC	ND<2
delta-BHC	ND<2
gamma-BHC (Lindane)	ND<2
Heptachlor	ND<2
Aldrin	ND<2
Heptachlor Epoxide	ND<2
Endosulfan I	ND<4
Dieldrin	ND<4
4,4'-DDE	ND<4
Endrin	ND<4
Endosulfan II	ND<4
4,4'-DDD	ND<4
Endrin Aldehyde	ND<4
Endosulfan Sulfate	ND<4
4,4'-DDT	ND<4
Methoxychlor	ND<20
Endrin Ketone	ND<4
Chlordane	ND<20
Toxaphene	ND<40
PCB-1016	ND<20
PCB-1221	ND<20
PCB-1232	ND<20
PCB-1242	ND<20
PCB-1248	ND<20
PCB-1254	ND<40
PCB-1260	ND<40

ND - This compound was not detected; the limit of detection for this analysis is less than the amount stated in the table above.

TR - Trace, this compound was present, but was below the level at which concentration could be determined.



IT ANALYTICAL SERVICES

17605 Fabrica Way • Cerritos, California 90701 • 213-921-9831 / 714-523-9200



CERTIFICATE OF ANALYSIS

Prepared For: IT Corporation - H. Kramer
17500 Redhill Ave., Suite 200
Irvine, CA 92714

Attn: Essi Esmaili

Date: December 17, 1985

ITCORP.

DEC 18 1985

Date Received: December 9, 1985

P.O. Number: 850150

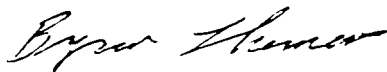
Job Number: 35254/rjc

Three (3) samples.

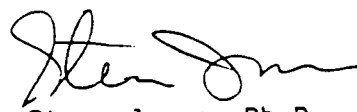
The samples were digested with acid and analyzed for metal content by ICP and AAS. The results are listed in Table I.

The samples were also analyzed for volatile organic contaminants using combined gas chromatography-mass spectrometry according to EPA Method 624, purge and trap. Results for compounds on the EPA Hazardous Substances List are given on the enclosed summary sheets.

I certify that this report truly represents the finding of work performed by me or under my direct supervision


Byron Thomas
Chemist

Reviewed and Approved


Steve Jones, Ph.D.
Technical Director

IT Corporation
E. Esmaili

December 17, 1985
JN: 35254 - Page 2

	<u>Concentration, milligrams/liter</u>		
	<u>W-1 #1</u>	<u>W-2 #1</u>	<u>W-3 #1</u>
Antimony	ND<0.5	TR<0.5	1.5
Arsenic	0.21	19.7	0.40
Barium	TR<0.1	TR<0.1	0.1
Beryllium	ND<0.03	ND<0.03	ND<0.03
Cadmium	ND<0.03	ND<0.03	ND<0.03
Chromium	0.4	0.2	ND<0.1
Cobalt	ND<0.1	ND<0.1	ND<0.1
Copper	ND<0.08	0.08	ND<0.08
Lead	ND<0.2	ND<0.2	ND<0.2
Mercury	TR<0.001	0.006	0.001
Molybdenum	ND<0.5	ND<0.5	ND<0.5
Nickel	ND<0.1	TR<0.1	ND<0.1
Selenium	0.02	0.02	0.59
Silver	ND<0.03	ND<0.03	ND<0.03
Thallium	ND<0.5	ND<0.5	ND<0.5
Vanadium	ND<0.1	ND<0.1	ND<0.1
Zinc	0.1	TR<0.1	TR<0.1

ND - This compound was not detected; the limit of detection for this analysis is less than the amount stated in the table above.

TR - Trace, this compound was present, but was below the level at which concentration could be determined.

SAMPLE IDENTIFICATION: W-1#2
DATE ANALYZED: 12/09/85
UNITS: UG/L

CAS #	COMPOUND	CONC
=====	=====	=====
71-43-2	BENZENE	1. ND
56-23-5	CARBON TETRACHLORIDE	1. ND
108-90-7	CHLOROBENZENE	1. ND
107-06-2	1,2-DICHLOROETHANE	1. ND
71-55-6	1,1,1-TRICHLOROETHANE <i>TCR</i>	13.
75-34-3	1,1-DICHLOROETHANE	1. ND
79-00-5	1,1,2-TRICHLOROETHANE	1. ND
79-34-5	1,1,2,2-TETRACHLOROETHANE	1. ND
75-00-3	CHLOROETHANE	1. ND
110-75-8	2-CHLOROETHYL VINYL ETHER	10. ND
67-66-3	CHLOROFORM	1. ND
75-35-4	1,1-DICHLOROETHENE	1. ND
156-60-5	TRANS-1,2-DICHLOROETHENE	1. ND
78-87-5	1,2-DICHLOROPROPANE	1. ND
10061-02-6	TRANS-1,3-DICHLOROPROPENE	1. ND
10061-01-5	CIS-1,3-DICHLOROPROPENE	1. ND
100-41-4	ETHYLBENZENE	1. ND
75-09-2	METHYLENE CHLORIDE	1. ND
74-87-3	CHLOROMETHANE	1. ND
74-83-9	BROMOMETHANE	1. ND
75-25-2	BROMOFORM	1. ND
75-27-4	BROMODICHLOROMETHANE	1. ND
124-48-1	CHLORODIBROMOMETHANE	1. ND
127-18-4	TETRACHLOROETHENE <i>TCR</i>	21.
108-88-3	TOLUENE	1. ND
79-01-6	TRICHLOROETHENE <i>TCR</i>	110.
75-01-4	VINYL CHLORIDE	1. ND
67-64-1	ACETONE	10. ND
78-93-3	2-BUTANONE	10. ND
75-15-0	CARBON DISULFIDE	1. ND
519-78-6	2-HEXANONE	1. ND
108-10-1	4-METHYL-2-PENTANONE	1. ND
100-42-5	STYRENE	1. ND
108-05-4	VINYL ACETATE	1. ND
95-47-6	TOTAL XYLENES	1. ND
106-93-4	ETHYLENE DIBROMIDE	1. ND

ND - THIS COMPOUND WAS NOT DETECTED; THE LIMIT OF DETECTION FOR THIS COMPOUND IS STATED TO THE LEFT OF THE ND SPECIFIER.

TR - TRACE, THIS COMPOUND WAS PRESENT, BUT WAS BELOW THE LEVEL AT WHICH THE CONCENTRATION COULD ACCURATELY BE DETERMINED. THE APPROXIMATE CONCENTRATION IS REPORTED FOR YOUR REFERENCE.

SAMPLE IDENTIFICATION: W-3#2
DATE ANALYZED: 12/09/85
UNITS: UG/L

CAS #	COMPOUND	CONC
=====	=====	=====
71-43-2	BENZENE	1. ND
56-23-5	CARBON TETRACHLORIDE	1. ND
108-90-7	CHLOROBENZENE	1. ND
107-06-2	1, 2-DICHLOROETHANE	1. ND
71-55-6	1, 1, 1-TRICHLOROETHANE	1. ND
75-34-3	1, 1-DICHLOROETHANE	1. ND
79-00-5	1, 1, 2-TRICHLOROETHANE	1. ND
79-34-5	1, 1, 2, 2-TETRACHLOROETHANE	1. ND
75-00-3	CHLOROETHANE	1. ND
110-75-8	2-CHLOROETHYL VINYL ETHER	10. ND
67-66-3	CHLOROFORM	1. ND
75-35-4	1, 1-DICHLOROETHENE	1. ND
156-60-5	TRANS-1, 2-DICHLOROETHENE	1. ND
78-87-5	1, 2-DICHLOROPROPANE	1. ND
10061-02-6	TRANS-1, 3-DICHLOROPROPENE	1. ND
10061-01-5	CIS-1, 3-DICHLOROPROPENE	1. ND
100-41-4	ETHYLBENZENE	1. ND
75-09-2	METHYLENE CHLORIDE	1. ND
74-87-3	CHLOROMETHANE	1. ND
74-83-9	BROMOMETHANE	1. ND
75-25-2	BROMOFORM	1. ND
75-27-4	BROMODICHLOROMETHANE	1. ND
124-48-1	CHLORODIBROMOMETHANE	1. ND
127-18-4	TETRACHLOROETHENE	38.
108-88-3	TOLUENE	1. ND
79-01-6	TRICHLOROETHENE TCE	84.
75-01-4	VINYL CHLORIDE	1. ND
67-64-1	ACETONE	10. ND
78-93-3	2-BUTANONE	10. ND
75-15-0	CARBON DISULFIDE	1. ND
519-78-6	2-HEXANONE	1. ND
108-10-1	4-METHYL-2-PENTANONE	1. ND
100-42-5	STYRENE	1. ND
108-05-4	VINYL ACETATE	1. ND
95-47-6	TOTAL XYLENES	1. ND
106-93-4	ETHYLENE DIBROMIDE	1. ND

ND - THIS COMPOUND WAS NOT DETECTED; THE LIMIT OF DETECTION FOR THIS COMPOUND IS STATED TO THE LEFT OF THE ND SPECIFIER.

TR - TRACE, THIS COMPOUND WAS PRESENT, BUT WAS BELOW THE LEVEL AT WHICH THE CONCENTRATION COULD ACCURATELY BE DETERMINED. THE APPROXIMATE CONCENTRATION IS REPORTED FOR YOUR REFERENCE.



IT ANALYTICAL SERVICES

17605 Fabrica Way • Cerritos, California 90701 • 213-921-9831 / 714-523-9200



CERTIFICATE OF ANALYSIS

Prepared For: IT Corporation - H. Kramer
17500 Redhill Ave., Suite 100
Irvine, CA 92714

Date: January 10, 1986

Attn: Essi Esmaili

Page 1 of 2

Date Received: December 27, 1985

P.O. Number: PC3551

Job Number: 35425/rjc

Four (4) samples.

The samples were digested with acid and analyzed by Atomic Absorption Spectroscopy and Inductively Coupled Plasma. The results are listed on the following page.

I certify that this report truly represents the finding of work performed by me or under my direct supervision

Byron Thomas
Chemist

Reviewed and Approved:

Steve Jones, Ph.D.
Technical Director

IT Corporation
E. Esmaili

January 10, 1986
JN: 35425 - Page 2 of 2

	<u>B-1 #4</u>	<u>B-1 #5</u>	<u>B-2 #4</u>	<u>B-2 #5</u>
Antimony	ND<5	TR<0.5	TR<0.5	ND<0.5
Arsenic	3.6	1.7	3.2	2.5
Barium	12	13	75	80
Beryllium	0.37	TR<0.3	0.6	0.8
Cadmium	ND<0.3	ND<0.3	1.5	2.2
Chromium	2.9	3.0	5.9	7.5
Cobalt	1.7	TR<1	6.6	11
Copper	11	22	13	20
Lead	6.8	5.8	14	20
Mercury	0.004	.014	.007	.020
Molybdenum	ND<0.7	ND<0.7	0.7	0.7
Nickel	5.1	2.9	7.3	13
Selenium	ND<0.05	ND<0.05	ND<0.05	TR<0.05
Silver	0.7	0.8	1.6	2.0
Thallium	TR<0.5	TR<0.5	TR<0.5	TR<0.5
Vanadium	TR<10	TR<10	TR<10	TR<10
Zinc	9.8	14	37	47

ND - This compound was not detected; the limit of detection for this analysis is less than the amount stated in the table above.

TR - Trace, this compound was present, but was below the level at which concentration could be determined.