



1900 Powell Street, 12th Floor
 Emeryville, California 94608-1811
 (510) 652-4500; FAX (510) 652-2246

Date	December 18, 1996		
Time	12:03PM		
From	Shellie Fletcher		
Deliver To	Amy Leach		
Name of Firm	Alameda County Health Department		
FAX No.	337-9335	LF Project No.	5827.00

Number of Pages: This cover page plus 22 pages

Remarks: Amy - At the request of Mr. Doug Day, I am faxing a copy of the analytical data from soil samples collected at 4000 and 4028 East 14th Street to you. Levine Fricke's contractual agreement is with Herbst Engineering and does not included agency interface in our approved scope of work. However, I am happy to send this information to you directly to keep the wheels of this project moving. - Shellie

THE INFORMATION CONTAINED IN THIS FACSIMILE IS CONFIDENTIAL AND IS INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY TO WHICH IT IS ADDRESSED. IF YOU ARE NOT THE INTENDED RECIPIENT, OR THE PERSON RESPONSIBLE FOR DELIVERING IT TO THE INTENDED RECIPIENT, DO NOT USE OR DISCLOSE THIS FACSIMILE. IF YOU HAVE RECEIVED THIS FACSIMILE IN ERROR, PLEASE NOTIFY US IMMEDIATELY BY TELEPHONE AND RETURN THE ORIGINAL TO LEVINE•FRICKE VIA THE U.S. POSTAL SERVICE. THANK YOU.

AMERICAN ENVIRONMENTAL NETWORK

Certificate of Analysis

DOSH Certification: 1172

AHA Accreditation 11134

PAGE 1

LEVINE-FRICKE-RECON
1900 POWELL ST. 12TH FL.
EMERYVILLE, CA 94608

REPORT DATE: 11/12/96
DATE(S) SAMPLED: 10/23/96
DATE RECEIVED: 10/24/96
AEN WORK ORDER: 9610335

ATTN: ~~SUE HENRICH~~ ^{SEE}
CLIENT PROJ. ID: 528 5827.08
CLIENT PROJ. NAME: HERBST ENG.
C.O.C. NUMBER: 17557

PROJECT SUMMARY:

On October 24, 1996, this laboratory received 3 soil sample(s).

Client requested 2 sample(s) be analyzed for chemical parameters; one sample was placed on hold. Results of analysis are summarized on the following page(s). Please see quality control report for a summary of QC data pertaining to this project.

Samples will be stored for 30 days after completion of analysis, then disposed of in accordance with State and Federal regulations. Samples may be archived by prior arrangement.

If you have any questions, please contact Client Services at (510) 930-9090.


Larry Klein
Laboratory Director

American Environmental Network

PAGE 2

LEVINE-FRICKE-RECON

SAMPLE ID: SP2
 AEN LAB NO: 9610335-02
 AEN WORK ORDER: 9610335
 CLIENT PROJ. ID: 5728

DATE SAMPLED: 10/23/96
 DATE RECEIVED: 10/24/96
 REPORT DATE: 11/12/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020 ✓				
Benzene	71-43-2	ND	1000	ug/kg	11/01/96
Toluene	108-88-3	ND	1000	ug/kg	11/01/96
Ethylbenzene	100-41-4	ND	1000	ug/kg	11/01/96
Xylenes, Total	1330-20-7	13,000 *	1000	ug/kg	11/01/96
Purgeable HCs as Gasoline	5030/GCFID	440 *	40	mg/kg	11/01/96
Methyl t-Butyl Ether	EPA 8020 ✓	ND	10,000	ug/kg	11/01/96
#Extraction for TPH	EPA 3550 ✓	-		Extrn Date	10/28/96
TPH as Diesel	GC-FID	1,500 *	20	mg/kg	11/04/96
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	10/31/96
LUFT Metals	EPA 6010 ✓				
Cadmium	EPA 6010	ND	0.2	mg/kg	11/01/96
Chromium	EPA 6010	57 *	0.5	mg/kg	11/01/96
Nickel	EPA 6010	100 *	1	mg/kg	11/01/96
Lead	EPA 6010	15 *	1	mg/kg	11/01/96
Zinc	EPA 6010	520 *	1	mg/kg	11/01/96
Volatile Organic Compounds	EPA 8240 ✓				
Acetone	67-64-1	ND	10000	ug/kg	10/25/96
Benzene	71-43-2	ND	500	ug/kg	10/25/96
Bromodichloromethane	75-27-4	ND	500	ug/kg	10/25/96
Bromoform	75-25-2	ND	500	ug/kg	10/25/96
Bromomethane	74-83-9	ND	1000	ug/kg	10/25/96
2-Butanone	78-93-3	ND	10000	ug/kg	10/25/96
Carbon Disulfide	75-15-0	ND	1000	ug/kg	10/25/96
Carbon Tetrachloride	56-23-5	ND	500	ug/kg	10/25/96
Chlorobenzene	108-90-7	ND	500	ug/kg	10/25/96
Chloroethane	75-00-3	ND	1000	ug/kg	10/25/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	1000	ug/kg	10/25/96
Chloroform	67-66-3	ND	500	ug/kg	10/25/96
Chloromethane	74-87-3	ND	1000	ug/kg	10/25/96
Dibromochloromethane	124-48-1	ND	500	ug/kg	10/25/96
1,1-Dichloroethane	75-43-3	ND	500	ug/kg	10/25/96
1,2-Dichloroethane	107-06-2	ND	500	ug/kg	10/25/96
1,1-Dichloroethene	75-35-4	ND	500	ug/kg	10/25/96
cis-1,2-Dichloroethene	156-59-2	ND	500	ug/kg	10/25/96
trans-1,2-Dichloroethene	156-60-5	ND	500	ug/kg	10/25/96

American Environmental Network

PAGE 3

LEVINE-FRICKE-RECON

SAMPLE ID: SP2
 AEN LAB NO: 9610335-02
 AEN WORK ORDER: 9610335
 CLIENT PROJ. ID: 5728

DATE SAMPLED: 10/23/96
 DATE RECEIVED: 10/24/96
 REPORT DATE: 11/12/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
1,2-Dichloropropane	78-87-5	ND	500	ug/kg	10/25/96
cis-1,3-Dichloropropene	10061-01-5	ND	500	ug/kg	10/25/96
trans-1,3-Dichloropropene	10061-02-6	ND	500	ug/kg	10/25/96
Ethylbenzene	100-41-4	ND	500	ug/kg	10/25/96
2-Hexanone	591-78-6	ND	5000	ug/kg	10/25/96
Methylene Chloride	75-09-2	ND	2000	ug/kg	10/25/96
4-Methyl-2-pentanone	108-10-1	ND	5000	ug/kg	10/25/96
Styrene	100-42-5	ND	500	ug/kg	10/25/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	500	ug/kg	10/25/96
Tetrachloroethene	127-18-4	ND	500	ug/kg	10/25/96
Toluene	108-88-3	ND	500	ug/kg	10/25/96
1,1,1-Trichloroethane	71-55-6	ND	500	ug/kg	10/25/96
1,1,2-Trichloroethane	79-00-5	ND	500	ug/kg	10/25/96
Trichloroethene	79-01-6	ND	500	ug/kg	10/25/96
Vinyl Acetate	108-05-4	ND	5000	ug/kg	10/25/96
Vinyl Chloride	75-01-4	ND	1000	ug/kg	10/25/96
Xylenes Total	1330-20-7	ND	1000	ug/kg	10/25/96
#Soil Extn for HCs	IR	-		Extn Date	10/30/96
#Soil Extn for O&G	IR	-		Extn Date	10/30/96
Hydrocarbons (IR)	SM 5520F ✓	1,200 *	10	mg/kg	11/04/96
Oil & Grease (IR)	SM 5520E	1,200 *	10	mg/kg	11/04/96
#Extraction for BNAs	EPA 3550	-		Extn Date	10/28/96
Semi-Volatile Organics	EPA 8270 ✓				
Acenaphthene	83-32-9	ND	330	ug/kg	10/30/96
Acenaphthylene	208-96-8	ND	330	ug/kg	10/30/96
Anthracene	120-12-7	ND	330	ug/kg	10/30/96
Benzidine	92-87-5	ND	1600	ug/kg	10/30/96
Benzoic Acid	65-85-0	ND	1600	ug/kg	10/30/96
Benzo(a)anthracene	56-55-3	ND	330	ug/kg	10/30/96
Benzo(b)fluoranthene	205-99-2	ND	330	ug/kg	10/30/96
Benzo(k)fluoranthene	207-08-9	ND	330	ug/kg	10/30/96
Benzo(g,h,i)perylene	191-24-2	ND	330	ug/kg	10/30/96
Benzo(a)pyrene	50-32-8	ND	330	ug/kg	10/30/96
Benzyl Alcohol	100-51-6	ND	660	ug/kg	10/30/96
Bis(2-chloroethoxy)methane	111-91-1	ND	330	ug/kg	10/30/96
Bis(2-chloroethyl) Ether	111-44-4	ND	330	ug/kg	10/30/96
Bis(2-chloroisopropyl) Ether	108-60-1	ND	330	ug/kg	10/30/96

American Environmental Network

PAGE 4

LEVINE-FRICKE-RECON

SAMPLE ID: SP2
 AEN LAB NO: 9610335-02
 AEN WORK ORDER: 9610335
 CLIENT PROJ. ID: 5728

DATE SAMPLED: 10/23/96
 DATE RECEIVED: 10/24/96
 REPORT DATE: 11/12/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Bis(2-ethylhexyl) Phthalate	117-81-7	ND	330	ug/kg	10/30/96
4-Bromophenyl Phenyl Ether	101-55-3	ND	330	ug/kg	10/30/96
Butylbenzyl Phthalate	85-68-7	ND	330	ug/kg	10/30/96
4-Chloroaniline	106-47-8	ND	660	ug/kg	10/30/96
2-Chloronaphthalene	91-58-7	ND	330	ug/kg	10/30/96
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	330	ug/kg	10/30/96
Chrysene	218-01-9	ND	330	ug/kg	10/30/96
Dibenzo(a,h)anthracene	53-70-3	ND	330	ug/kg	10/30/96
Dibenzofuran	132-64-9	ND	330	ug/kg	10/30/96
Di-n-butyl Phthalate	84-74-2	ND	330	ug/kg	10/30/96
1,2-Dichlorobenzene	95-50-1	ND	330	ug/kg	10/30/96
1,3-Dichlorobenzene	541-73-1	ND	330	ug/kg	10/30/96
1,4-Dichlorobenzene	106-46-7	ND	330	ug/kg	10/30/96
3,3'-Dichlorobenzidine	91-94-1	ND	660	ug/kg	10/30/96
Diethyl Phthalate	84-66-2	ND	330	ug/kg	10/30/96
Dimethyl Phthalate	131-11-3	ND	330	ug/kg	10/30/96
2,4-Dinitrotoluene	121-14-2	ND	330	ug/kg	10/30/96
2,6-Dinitrotoluene	606-20-2	ND	330	ug/kg	10/30/96
Di-n-octyl Phthalate	117-84-0	ND	330	ug/kg	10/30/96
Fluoranthene	206-44-0	ND	330	ug/kg	10/30/96
Fluorene	86-73-7	ND	330	ug/kg	10/30/96
Hexachlorobenzene	118-74-1	ND	330	ug/kg	10/30/96
Hexachlorobutadiene	87-68-3	ND	330	ug/kg	10/30/96
Hexachlorocyclopentadiene	77-47-4	ND	330	ug/kg	10/30/96
Hexachloroethane	67-72-1	ND	330	ug/kg	10/30/96
Indeno(1,2,3-cd)pyrene	193-39-5	ND	330	ug/kg	10/30/96
Isophorone	78-59-1	ND	330	ug/kg	10/30/96
2-Methylnaphthalene	91-57-6	870 *	330	ug/kg	10/30/96
Naphthalene	91-20-3	640 *	330	ug/kg	10/30/96
2-Nitroaniline	88-74-4	ND	1600	ug/kg	10/30/96
3-Nitroaniline	99-09-2	ND	1600	ug/kg	10/30/96
4-Nitroaniline	100-01-6	ND	1600	ug/kg	10/30/96
Nitrobenzene	98-95-3	ND	330	ug/kg	10/30/96
N-Nitrosodiphenylamine	86-30-6	ND	330	ug/kg	10/30/96
N-Nitrosodi-n-propylamine	621-64-7	ND	330	ug/kg	10/30/96
Phenanthrene	85-01-8	ND	330	ug/kg	10/30/96
Pyrene	129-00-0	ND	330	ug/kg	10/30/96
1,2,4-Trichlorobenzene	120-82-1	ND	330	ug/kg	10/30/96
4-Chloro-3-methylphenol	59-50-7	ND	330	ug/kg	10/30/96
2-Chlorophenol	95-57-8	ND	330	ug/kg	10/30/96
2,4-Dichlorophenol	120-83-2	ND	330	ug/kg	10/30/96
2,4-Dimethylphenol	105-67-9	ND	330	ug/kg	10/30/96
4,6-Dinitro-2-methylphenol	534-52-1	ND	1600	ug/kg	10/30/96

Environmental Data Management Network

LEVINE-FRICKE-RECON

SAMPLE ID: SP2
 AEN LAB NO: 9610335-02
 AEN WORK ORDER: 9610335
 CLIENT PROJ. ID: 5728

DATE SAMPLED: 10/23/96
 DATE RECEIVED: 10/24/96
 REPORT DATE: 11/12/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
2,4-Dinitrophenol	51-28-5	ND	1600	ug/kg	10/30/96
2-Methylphenol	95-48-7	ND	330	ug/kg	10/30/96
4-Methylphenol	106-44-5	ND	330	ug/kg	10/30/96
2-Nitrophenol	88-75-5	ND	330	ug/kg	10/30/96
4-Nitrophenol	100-02-7	ND	1600	ug/kg	10/30/96
Pentachlorophenol	87-86-5	ND	1600	ug/kg	10/30/96
Phenol	108-95-2	ND	330	ug/kg	10/30/96
2,4,5-Trichlorophenol	95-95-4	ND	330	ug/kg	10/30/96
2,4,6-Trichlorophenol	88-06-2	ND	330	ug/kg	10/30/96

RLs elevated for gas/BTEX/MTBE and EPA 8240 due to high levels of non-target compounds. Sample run at dilution.

ND = Not detected at or above the reporting limit
 * = Value at or above reporting limit

Environmental Network

PAGE 6

LEVINE-FRICKE-RECON

SAMPLE ID: T1
 AEN LAB NO: 9610335-03
 AEN WORK ORDER: 9610335
 CLIENT PROJ. ID: 5728

DATE SAMPLED: 10/23/96
 DATE RECEIVED: 10/24/96
 REPORT DATE: 11/12/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	1000	ug/kg	11/04/96
Toluene	108-88-3	ND	1000	ug/kg	11/04/96
Ethylbenzene	100-41-4	ND	1000	ug/kg	11/04/96
Xylenes, Total	1330-20-7	2.000 *	1000	ug/kg	11/04/96
Purgeable HCs as Gasoline	5030/GCFID	320 *	40	mg/kg	11/04/96
Methyl t-Butyl Ether	EPA 8020	ND	10,000	ug/kg	11/04/96
#Extraction for TPH	EPA 3550	-		Extrn Date	10/28/96
TPH as Diesel	GC-FID	51 *	1	mg/kg	11/01/96
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	10/31/96
LUFT Metals	EPA 6010				
Cadmium	EPA 6010	ND	0.2	mg/kg	11/01/96
Chromium	EPA 6010	33 *	0.5	mg/kg	11/01/96
Nickel	EPA 6010	59 *	1	mg/kg	11/01/96
Lead	EPA 6010	5 *	1	mg/kg	11/01/96
Zinc	EPA 6010	36 *	1	mg/kg	11/01/96
Volatile Organic Compounds	EPA 8240 ✓				
Acetone	67-64-1	ND	500	ug/kg	10/28/96
Benzene	71-43-2	ND	30	ug/kg	10/28/96
Bromodichloromethane	75-27-4	ND	30	ug/kg	10/28/96
Bromoform	75-25-2	ND	30	ug/kg	10/28/96
Bromomethane	74-83-9	ND	50	ug/kg	10/28/96
2-Butanone	78-93-3	ND	500	ug/kg	10/28/96
Carbon Disulfide	75-15-0	ND	50	ug/kg	10/28/96
Carbon Tetrachloride	56-23-5	ND	30	ug/kg	10/28/96
Chlorobenzene	108-90-7	ND	30	ug/kg	10/28/96
Chloroethane	75-00-3	ND	50	ug/kg	10/28/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	50	ug/kg	10/28/96
Chloroform	67-66-3	ND	30	ug/kg	10/28/96
Chloromethane	74-87-3	ND	50	ug/kg	10/28/96
Dibromochloromethane	124-48-1	ND	30	ug/kg	10/28/96
1,1-Dichloroethane	75-43-3	ND	30	ug/kg	10/28/96
1,2-Dichloroethane	107-06-2	ND	30	ug/kg	10/28/96
1,1-Dichloroethene	75-35-4	ND	30	ug/kg	10/28/96
cis-1,2-Dichloroethene	156-59-2	ND	30	ug/kg	10/28/96
trans-1,2-Dichloroethene	156-60-5	ND	30	ug/kg	10/28/96

American Environmental Network

LEVINE-FRICKE-RECON

SAMPLE ID: T1
 AEN LAB NO: 9610335-03
 AEN WORK ORDER: 9610335
 CLIENT PROJ. ID: 5728

DATE SAMPLED: 10/23/96
 DATE RECEIVED: 10/24/96
 REPORT DATE: 11/12/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
1,2-Dichloropropane	78-87-5	ND	30	ug/kg	10/28/96
cis-1,3-Dichloropropene	10061-01-5	ND	30	ug/kg	10/28/96
trans-1,3-Dichloropropene	10061-02-6	ND	30	ug/kg	10/28/96
Ethylbenzene	100-41-4	ND	30	ug/kg	10/28/96
2-Hexanone	591-78-6	ND	300	ug/kg	10/28/96
Methylene Chloride	75-09-2	ND	100	ug/kg	10/28/96
4-Methyl-2-pentanone	108-10-1	ND	300	ug/kg	10/28/96
Styrene	100-42-5	ND	30	ug/kg	10/28/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	30	ug/kg	10/28/96
Tetrachloroethene	127-18-4	ND	30	ug/kg	10/28/96
Toluene	108-88-3	ND	30	ug/kg	10/28/96
1,1,1-Trichloroethane	71-55-6	ND	30	ug/kg	10/28/96
1,1,2-Trichloroethane	79-00-5	ND	30	ug/kg	10/28/96
Trichloroethene	79-01-6	ND	30	ug/kg	10/28/96
Vinyl Acetate	108-05-4	ND	300	ug/kg	10/28/96
Vinyl Chloride	75-01-4	ND	50	ug/kg	10/28/96
Xylenes Total	1330-20-7	ND	50	ug/kg	10/28/96
#Soil Extrn for HCs	IR	-		Extrn Date	10/30/96
#Soil Extrn for O&G	IR	-		Extrn Date	10/30/96
Hydrocarbons (IR)	SM 5520F	110 *	10	mg/kg	11/01/96
Oil & Grease (IR)	SM 5520E	200 *	10	mg/kg	11/04/96
#Extraction for BNAs	EPA 3550	-		Extrn Date	10/28/96
Semi-Volatile Organics	EPA 8270				
Acenaphthene	83-32-9	ND	330	ug/kg	10/29/96
Acenaphthylene	208-96-8	ND	330	ug/kg	10/29/96
Anthracene	120-12-7	ND	330	ug/kg	10/29/96
Benzdine	92-87-5	ND	1600	ug/kg	10/29/96
Benzoic Acid	65-85-0	ND	1600	ug/kg	10/29/96
Benzo(a)anthracene	56-55-3	ND	330	ug/kg	10/29/96
Benzo(b)fluoranthene	205-99-2	ND	330	ug/kg	10/29/96
Benzo(k)fluoranthene	207-08-9	ND	330	ug/kg	10/29/96
Benzo(g,h,i)perylene	191-24-2	ND	330	ug/kg	10/29/96
Benzo(a)pyrene	50-32-8	ND	330	ug/kg	10/29/96
Benzyl Alcohol	100-51-6	ND	660	ug/kg	10/29/96
Bis(2-chloroethoxy)methane	111-91-1	ND	330	ug/kg	10/29/96
Bis(2-choroethyl) Ether	111-44-4	ND	330	ug/kg	10/29/96
Bis(2-chloroisopropyl) Ether	108-60-1	ND	330	ug/kg	10/29/96

American Environmental Network

PAGE 8

LEVINE-FRICKE-RECON

SAMPLE ID: T1
 AEN LAB NO: 9610335-03
 AEN WORK ORDER: 9610335
 CLIENT PROJ. ID: 5728

DATE SAMPLED: 10/23/96
 DATE RECEIVED: 10/24/96
 REPORT DATE: 11/12/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Bis(2-ethylhexyl) Phthalate	117-81-7	ND	330	ug/kg	10/29/96
4-Bromophenyl Phenyl Ether	101-55-3	ND	330	ug/kg	10/29/96
Butylbenzyl Phthalate	85-68-7	ND	330	ug/kg	10/29/96
4-Chloroaniline	106-47-8	ND	660	ug/kg	10/29/96
2-Chloronaphthalene	91-58-7	ND	330	ug/kg	10/29/96
4-Chlorophenyl Phenyl Ether	7005-72-3	ND	330	ug/kg	10/29/96
Chrysene	218-01-9	ND	330	ug/kg	10/29/96
Dibenzo(a,h)anthracene	53-70-3	ND	330	ug/kg	10/29/96
Dibenzofuran	132-64-9	ND	330	ug/kg	10/29/96
Di-n-butyl Phthalate	84-74-2	ND	330	ug/kg	10/29/96
1,2-Dichlorobenzene	95-50-1	ND	330	ug/kg	10/29/96
1,3-Dichlorobenzene	541-73-1	ND	330	ug/kg	10/29/96
1,4-Dichlorobenzene	106-46-7	ND	330	ug/kg	10/29/96
3,3'-Dichlorobenzidine	91-94-1	ND	660	ug/kg	10/29/96
Diethyl Phthalate	84-66-2	ND	330	ug/kg	10/29/96
Dimethyl Phthalate	131-11-3	ND	330	ug/kg	10/29/96
2,4-Dinitrotoluene	121-14-2	ND	330	ug/kg	10/29/96
2,6-Dinitrotoluene	606-20-2	ND	330	ug/kg	10/29/96
Di-n-octyl Phthalate	117-84-0	ND	330	ug/kg	10/29/96
Fluoranthene	206-44-0	ND	330	ug/kg	10/29/96
Fluorene	86-73-7	ND	330	ug/kg	10/29/96
Hexachlorobenzene	118-74-1	ND	330	ug/kg	10/29/96
Hexachlorobutadiene	87-68-3	ND	330	ug/kg	10/29/96
Hexachlorocyclopentadiene	77-47-4	ND	330	ug/kg	10/29/96
Hexachloroethane	67-72-1	ND	330	ug/kg	10/29/96
Indeno(1,2,3-cd)pyrene	193-39-5	ND	330	ug/kg	10/29/96
Isophorone	78-59-1	ND	330	ug/kg	10/29/96
2-Methylnaphthalene	91-57-6	ND	330	ug/kg	10/29/96
Naphthalene	91-20-3	ND	330	ug/kg	10/29/96
2-Nitroaniline	88-74-4	ND	1600	ug/kg	10/29/96
3-Nitroaniline	99-09-2	ND	1600	ug/kg	10/29/96
4-Nitroaniline	100-01-6	ND	1600	ug/kg	10/29/96
Nitrobenzene	98-95-3	ND	330	ug/kg	10/29/96
N-Nitrosodiphenylamine	86-30-6	ND	330	ug/kg	10/29/96
N-Nitrosodi-n-propylamine	621-64-7	ND	330	ug/kg	10/29/96
Phenanthrene	85-01-8	ND	330	ug/kg	10/29/96
Pyrene	129-00-0	ND	330	ug/kg	10/29/96
1,2,4-Trichlorobenzene	120-82-1	ND	330	ug/kg	10/29/96
4-Chloro-3-methylphenol	59-50-7	ND	330	ug/kg	10/29/96
2-Chlorophenol	95-57-8	ND	330	ug/kg	10/29/96
2,4-Dichlorophenol	120-83-2	ND	330	ug/kg	10/29/96
2,4-Dimethylphenol	105-67-9	ND	330	ug/kg	10/29/96
4,6-Dinitro-2-methylphenol	534-52-1	ND	1600	ug/kg	10/29/96

American Environmental Network

PAGE 9

LEVINE-FRICKE-RECON

SAMPLE ID: T1
 AEN LAB NO: 9610335-03
 AEN WORK ORDER: 9610335
 CLIENT PROJ. ID: 5728

DATE SAMPLED: 10/23/96
 DATE RECEIVED: 10/24/96
 REPORT DATE: 11/12/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
2,4-Dinitrophenol	51-28-5	ND	1600	ug/kg	10/29/96
2-Methylphenol	95-48-7	ND	330	ug/kg	10/29/96
4-Methylphenol	106-44-5	ND	330	ug/kg	10/29/96
2-Nitrophenol	88-75-5	ND	330	ug/kg	10/29/96
4-Nitrophenol	100-02-7	ND	1600	ug/kg	10/29/96
Pentachlorophenol	87-86-5	ND	1600	ug/kg	10/29/96
Phenol	108-95-2	ND	330	ug/kg	10/29/96
2,4,5-Trichlorophenol	95-95-4	ND	330	ug/kg	10/29/96
2,4,6-Trichlorophenol	88-06-2	ND	330	ug/kg	10/29/96

RLs elevated for gas/BTEX/MTBE and EPA 8240 due to high levels of non-target compounds, & for diesel due to high level of target compound. Sample run dilute.

ND = Not detected at or above the reporting limit
 * = Value at or above reporting limit

American Environmental Network

PAGE 10

AEN (CALIFORNIA)
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9610335

CLIENT PROJECT ID: 5728

Quality Control Summary

All laboratory quality control parameters were found to be within established limits.

Definitions

Laboratory Control Sample (LCS)/Method Spike(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (aqueous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method Blank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analysis.

Reporting Limit (RL): The lowest concentration routinely determined during laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are matrix, method, and analyte dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behavior, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrumental performance.

D: Surrogates diluted out.

#: Indicates result outside of established laboratory QC limits.

American Environmental Network

PAGE 11

QUALITY CONTROL DATA

METHOD: SM 5520

AEN JOB NO: 9610335
DATE EXTRACTED: 10/30/96
DATE ANALYZED: 10/31/96
SAMPLE SPIKED: LCS
INSTRUMENT: IR
MATRIX: SOIL

Laboratory Control Sample

Analyte	Spike Added (mg/kg)	Percent Recovery	QC Limits
			Percent Recovery
Oil	212	110	70-110

Method Blank Result

Lab Id	Hydrocarbons (mg/kg)
103096-BLANK	ND
Reporting Limit	10

American Environmental Network

QUALITY CONTROL DATA

METHOD: EPA 3550 GCFID

AEN JOB NO: 9610335
AEN LAB NO: 1028-BLANK
DATE EXTRACTED: 10/28/96
DATE ANALYZED: 11/01/96
INSTRUMENT: C
MATRIX: SOIL

Method Blank

	Result (mg/kg)	Reporting Limit (mg/kg)
Diesel	ND	1

Transfer Station - Red Bank

QUALITY CONTROL DATA

METHOD: EPA 3550 GCFID

AEN JOB NO: 9610335
 DATE EXTRACTED: 10/28/96
 INSTRUMENT: C
 MATRIX: SOIL

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery n-Pentacosane
11/04/96	SP2	02	D
11/01/96	T1	03	97
QC Limits:			55-115

D: Surrogate diluted out.

DATE EXTRACTED: 10/26/96
 DATE ANALYZED: 10/31/96
 SAMPLE SPIKED: 9610315-05
 INSTRUMENT: C

Matrix Spike Recovery Summary

Analyte	Spike Added (mg/kg)	Average Percent Recovery	RPD	QC Limits	
				Percent Recovery	RPD
Diesel	40.0	95	1	50-115	20

American Environmental Network

PAGE 14

QUALITY CONTROL DATA

METHOD: EPA 8020, 5030 GCFID

AEN JOB NO: 9610335
 AEN LAB NO: 1101-BLANK
 DATE ANALYZED: 11/01/96
 INSTRUMENT: E
 MATRIX: SOIL

Method Blank

Analyte	CAS #	Result (ug/kg)	Reporting Limit (ug/kg)
Benzene	71-43-2	ND	5
Toluene	108-88-3	ND	5
Ethylbenzene	100-41-4	ND	5
Xylenes, Total	1330-20-7	ND	5
HCs as Gasoline		ND mg/kg	0.2 mg/kg
Methyl t-Butyl Ether	1634-04-4	ND	50

AEN LAB NO: 1104-BLANK
 DATE ANALYZED: 11/04/96
 INSTRUMENT: H
 MATRIX: SOIL

Method Blank

Analyte	CAS #	Result (ug/kg)	Reporting Limit (ug/kg)
Benzene	71-43-2	ND	5
Toluene	108-88-3	ND	5
Ethylbenzene	100-41-4	ND	5
Xylenes, Total	1330-20-7	ND	5
HCs as Gasoline		ND mg/kg	0.2 mg/kg
Methyl t-Butyl Ether	1634-04-4	ND	50

QUALITY CONTROL DATA

METHOD: EPA 8020, 5030 GCFID

AEN JOB NO: 9610335
 INSTRUMENT: E, H
 MATRIX: SOIL

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery	
			Fluorobenzene	
11/01/96	SP2	02	102	
11/04/96	T1	03	99	
QC Limits:			70-130	

DATE ANALYZED: 11/04/96
 SAMPLE SPIKED: 9610343-06
 INSTRUMENT: H

Matrix Spike Recovery Summary

Analyte	Spike Added (ug/kg)	Average Percent Recovery	RPD	QC Limits	
				Percent Recovery	RPD
Benzene	33.0	94	5	79-113	26
Toluene	95.2	94	4	84-110	20
Hydrocarbons as Gasoline	500	111	6	60-126	20

American Environmental Network

PAGE 16

QUALITY CONTROL DATA

METHOD: EPA 8240

AEN JOB NO: 9610335
 AEN LAB NO: 1025-BLANK
 DATE ANALYZED: 10/25/96
 INSTRUMENT: 12
 MATRIX: SOIL

Method Blank

Analyte	CAS #	Result (ug/kg)	Reporting Limit (ug/kg)
Acetone	67-64-1	ND	100
Benzene	71-43-2	ND	5
Bromodichloromethane	75-27-4	ND	5
Bromoform	75-25-2	ND	5
Bromomethane	74-83-9	ND	10
2-Butanone	78-93-3	ND	100
Carbon Disulfide	75-15-0	ND	10
Carbon Tetrachloride	56-23-5	ND	5
Chlorobenzene	108-90-7	ND	5
Chloroethane	75-00-3	ND	10
2-Chloroethyl Vinyl Ether	110-75-8	ND	10
Chloroform	67-66-3	ND	5
Chloromethane	74-87-3	ND	10
Dibromochloromethane	124-48-1	ND	5
1,1-Dichloroethane	75-34-3	ND	5
1,2-Dichloroethane	107-06-2	ND	5
1,1-Dichloroethene	75-35-4	ND	5
cis-1,2-Dichloroethene	156-59-2	ND	5
trans-1,2-Dichloroethene	156-60-5	ND	5
1,2-Dichloropropane	78-87-5	ND	5
cis-1,3-Dichloropropene	10061-01-5	ND	5
trans-1,3-Dichloropropene	10061-02-6	ND	5
Ethylbenzene	100-41-4	ND	5
2-Hexanone	591-78-6	ND	50
Methylene Chloride	75-09-2	ND	20
4-Methyl-2-pentanone	108-10-1	ND	50
Styrene	100-42-5	ND	5
1,1,2,2-Tetrachloroethane	79-34-5	ND	5
Tetrachloroethene	127-18-4	ND	5
Toluene	108-88-3	ND	5
1,1,1-Trichloroethane	71-55-6	ND	5
1,1,2-Trichloroethane	79-00-5	ND	5
Trichloroethene	79-01-6	ND	5
Vinyl Acetate	108-05-4	ND	50
Vinyl Chloride	75-01-4	ND	10
Xylenes, Total	1330-20-7	ND	10
1,1,2-Trichloro- trifluoroethane	76-13-1	ND	10

American Environmental Network

PAGE 17

QUALITY CONTROL DATA

METHOD: EPA 8240

AEN JOB NO: 9610335
 AEN LAB NO: 1028-BLANK
 DATE ANALYZED: 10/28/96
 INSTRUMENT: 12
 MATRIX: SOIL

Method Blank

Analyte	CAS #	Result (ug/kg)	Reporting Limit (ug/kg)
Acetone	67-64-1	ND	100
Benzene	71-43-2	ND	5
Bromodichloromethane	75-27-4	ND	5
Bromoform	75-25-2	ND	5
Bromomethane	74-83-9	ND	10
2-Butanone	78-93-3	ND	100
Carbon Disulfide	75-15-0	ND	10
Carbon Tetrachloride	56-23-5	ND	5
Chlorobenzene	108-90-7	ND	5
Chloroethane	75-00-3	ND	10
2-Chloroethyl Vinyl Ether	110-75-8	ND	10
Chloroform	67-66-3	ND	5
Chloromethane	74-87-3	ND	10
Dibromochloromethane	124-48-1	ND	5
1,1-Dichloroethane	75-34-3	ND	5
1,2-Dichloroethane	107-06-2	ND	5
1,1-Dichloroethene	75-35-4	ND	5
cis-1,2-Dichloroethene	156-59-2	ND	5
trans-1,2-Dichloroethene	156-60-5	ND	5
1,2-Dichloropropane	78-87-5	ND	5
cis-1,3-Dichloropropene	10061-01-5	ND	5
trans-1,3-Dichloropropene	10061-02-6	ND	5
Ethylbenzene	100-41-4	ND	5
2-Hexanone	591-78-6	ND	50
Methylene Chloride	75-09-2	ND	20
4-Methyl-2-pentanone	108-10-1	ND	50
Styrene	100-42-5	ND	5
1,1,2,2-Tetrachloroethane	79-34-5	ND	5
Tetrachloroethene	127-18-4	ND	5
Toluene	108-88-3	ND	5
1,1,1-Trichloroethane	71-55-6	ND	5
1,1,2-Trichloroethane	79-00-5	ND	5
Trichloroethene	79-01-6	ND	5
Vinyl Acetate	108-05-4	ND	50
Vinyl Chloride	75-01-4	ND	10
Xylenes, Total	1330-20-7	ND	10
1,1,2-Trichloro- trifluoroethane	76-13-1	ND	10

QUALITY CONTROL DATA

METHOD: EPA 8240

AEN JOB NO: 9610335
 INSTRUMENT: 12
 MATRIX: SOIL

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery		
			1,2-Dichloro-ethane-d ₄	Toluene-d ₈	p-Bromofluoro-benzene
10/28/96	SP2	02	77	96	96
10/25/96	T1	03	73	111	94
QC Limits:			70-121	81-117	74-121

DATE ANALYZED: 10/23/96
 SAMPLE SPIKED: 9610208-05
 INSTRUMENT: 12

Matrix Spike Recovery Summary

Analyte	Spike Added (ug/kg)	Average Percent Recovery	RPD	QC Limits	
				Percent Recovery	RPD
1,1-Dichloroethene	50	63	10	59-155	25
Trichloroethene	50	82	6	71-157	25
Benzene	50	87	3	37-151	25
Toluene	50	96	5	47-150	25
Chlorobenzene	50	107	4	37-160	25

American Environmental Network

PAGE 19

QUALITY CONTROL DATA

METHOD: EPA 8270

AEN JOB NO: 9610335
 AEN LAB NO: 1028-BLANK
 DATE EXTRACTED: 10/28/96
 DATE ANALYZED: 10/30/96
 INSTRUMENT: 11
 MATRIX: SOIL

Method Blank

Analyte	CAS #	Result (ug/kg)	Reporting Limit (ug/kg)
Acenaphthene	83-32-9	ND	330
Acenaphthylene	208-96-8	ND	330
Anthracene	120-12-7	ND	330
Benzidine	92-87-5	ND	1600
Benzoic Acid	65-85-0	ND	1600
Benzo(a)anthracene	56-55-3	ND	330
Benzo(b)fluoranthene	205-99-2	ND	330
Benzo(k)fluoranthene	207-08-9	ND	330
Benzo(g,h,i)perylene	191-24-2	ND	330
Benzo(a)pyrene	50-32-8	ND	330
Benzyl Alcohol	100-51-6	ND	660
Bis(2-chloroethoxy)methane	111-91-1	ND	330
Bis(2-chloroethyl)ether	111-44-4	ND	330
Bis(2-chloroisopropyl)ether	108-60-1	ND	330
Bis(2-ethylhexyl)phthalate	117-81-7	ND	330
4-Bromophenyl phenyl ether	101-55-3	ND	330
Butylbenzyl phthalate	85-68-7	ND	330
4-Chloroaniline	106-47-8	ND	660
2-Chloronaphthalene	91-58-7	ND	330
4-Chlorophenyl phenylether	7005-72-3	ND	330
Chrysene	218-01-9	ND	330
Dibenzo(a,h)anthracene	53-70-3	ND	330
Dibenzofuran	132-64-9	ND	330
Di-n-butylphthalate	84-74-2	ND	330
1,2-Dichlorobenzene	95-50-1	ND	330
1,3-Dichlorobenzene	541-73-1	ND	330
1,4-Dichlorobenzene	106-46-7	ND	330
3,3'-Dichlorobenzidine	91-94-1	ND	660
Diethylphthalate	84-66-2	ND	330
Dimethylphthalate	131-11-3	ND	330
2,4-Dinitrotoluene	121-14-2	ND	330
2,6-Dinitrotoluene	606-20-2	ND	330
Di-n-octylphthalate	117-84-0	ND	330

American Environmental Network

PAGE 20

QUALITY CONTROL DATA

METHOD: EPA 8270

AEN JOB NO: 9610335
 AEN LAB NO: 1028-BLANK
 DATE EXTRACTED: 10/28/96
 DATE ANALYZED: 10/30/96
 INSTRUMENT: 11
 MATRIX: SOIL

Method Blank (Cont.)

Analyte	CAS #	Result (ug/kg)	Reporting Limit (ug/kg)
Fluoranthene	206-44-0	ND	330
Fluorene	86-73-7	ND	330
Hexachlorobenzene	118-74-1	ND	330
Hexachlorobutadiene	87-68-3	ND	330
Hexachlorocyclopentadiene	77-47-4	ND	330
Hexachloroethane	67-72-1	ND	330
Indeno(1,2,3-cd)pyrene	193-39-5	ND	330
Isophorone	78-59-1	ND	330
2-Methylnaphthalene	91-57-6	ND	330
Naphthalene	91-20-3	ND	330
2-Nitroaniline	88-74-4	ND	1600
3-Nitroaniline	99-09-2	ND	1600
4-Nitroaniline	100-01-6	ND	1600
Nitrobenzene	98-95-3	ND	330
N-nitrosodiphenylamine	86-30-6	ND	330
N-nitroso-di-n-propylamine	621-64-7	ND	330
Phenanthrene	85-01-8	ND	330
Pyrene	129-00-0	ND	330
1,2,4-Trichlorobenzene	120-82-1	ND	330
4-Chloro-3-methylphenol	59-50-7	ND	330
2-Chlorophenol	95-57-8	ND	330
2,4-Dichlorophenol	120-83-2	ND	330
2,4-Dimethylphenol	105-67-9	ND	330
4,6-Dinitro-2-methylphenol	534-52-1	ND	1600
2,4-Dinitrophenol	51-28-5	ND	1600
2-Methylphenol	95-48-7	ND	330
4-Methylphenol	106-44-5	ND	330
2-Nitrophenol	88-75-5	ND	330
4-Nitrophenol	100-02-7	ND	1600
Pentachlorophenol	87-86-5	ND	1600
Phenol	108-95-2	ND	330
2,4,5-Trichlorophenol	95-95-4	ND	330
2,4,6-Trichlorophenol	88-06-2	ND	330

QUALITY CONTROL DATA

METHOD: EPA 8270

AEN JOB NO: 9610335
 DATES EXTRACTED: 10/28/96
 INSTRUMENT: 11
 MATRIX: SOIL

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery					Terphenyl-d ₁₀
			2-Fluoro-phenol	Phenol-d ₅	Nitro-benzene-d ₅	2-Fluoro-biphenyl	2,4,6-Tri-bromophenol	
10/30/96	SP2	02	93	88	72	90	72	80
10/30/96	T1	03	75	67	66	82	63	73
QC Limits:			37-102	46-122	38-112	63-103	35-149	69-105

DATE EXTRACTED: 10/28/96
 DATE ANALYZED: 10/30/96
 SAMPLE SPIKED: LCS
 INSTRUMENT: 11

Laboratory Control Sample Recovery

Analyte	Spike Added (ug/kg)	Percent Recovery	QC Limits
			Percent Recovery
Phenol	2940	63	41-125
2-Chlorophenol	2980	79	45-132
1,4-Dichlorobenzene	2970	74	24-126
N-Nitrosodi-n-propylamine	2750	67	60-129
1,2,4-Trichlorobenzene	3290	78	38-123
4-Chloro-3-methylphenol	2960	78	49-145
Acenaphthene	2790	86	50-129
4-Nitrophenol	2960	65	29-139
2,4-Dinitrotoluene	3810	73	53-127
Pentachlorophenol	2770	59	13-171
Pyrene	3580	71	40-130

National Environmental Network

PAGE 22

QUALITY CONTROL DATA

AEN JOB NO: 9610335
 SAMPLE SPIKED: SAND
 DATE(S) ANALYZED: 11/01/96
 MATRIX: SOIL

Method Blank and Spike Recovery Summary

Analyte	Inst./ Method	Blank Result (mg/kg)	Spike Added (mg/kg)	MS Percent Recovery	RPD	QC Limits	
						Percent Recovery	RPD
Cd. Cadmium	ICP/6010	ND	10	108	2	90-120	10
Cr. Chromium	ICP/6010	ND	50	106	<1	90-120	10
Ni. Nickel	ICP/6010	ND	50	106	<1	90-120	10
Pb. Lead	ICP/6010	ND	50	106	<1	90-120	10
Zn. Zinc	ICP/6010	ND	50	104	<1	90-115	10

*** END OF REPORT ***

R-7, S-E

9610335

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.: 5788			Field Logbook No.:			Date: 10/23/96			Serial No.: No. 17557						
Project Name: Herbst Engineering						Project Location: Oakland									
Sampler (Signature): Shekita Fletcher						Analyses									
SAMPLES						SAMPLERS: SRF									
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CON-TAINERS	SAMPLE TYPE	OX ₂	TPH _g	BTEX	MTBE	TPH _d	VOCs	SVOCS	NO ₂ /NO _x	RUSH	REMARKS
SPI	10/23/96		01A	1	Soil										RESULTS TO SRF
SP2			02A	1	↓	X	X	X	X	X	X	X	X		TPHg, BTEX, MTBE by 8022
T1			03A	1	↓	X	X	X	X	X	X	X	X		TPHd by 3550
															VOCs by 8240
															SVOCS by 8270
															Oil and grease. 5520 E/F
															metals = Cd, Cr, Pb Ni, Zn by ICAP or AA
															Normal TAT
RELINQUISHED BY (Signature): Shekita Fletcher			DATE: 10/23/96	TIME: 1650	RECEIVED BY (Signature): Michael Fricke			DATE: 10/24/96	TIME: 1650						
RELINQUISHED BY (Signature): Michael Fricke			DATE: 10/24/96	TIME: 1730	RECEIVED BY (Signature): Lucrea Podkonorsk			DATE: 10-24-96	TIME: 1800						
RELINQUISHED BY (Signature):			DATE:	TIME:	RECEIVED BY (Signature):			DATE:	TIME:						
METHOD OF SHIPMENT:			DATE:	TIME:	LAB COMMENTS:										
Sample Collector: LEVINE-FRICKE 1900 Powell Street, 12th Floor Emeryville, California 94608 (510) 652-4500					Analytical Laboratory: AEN										

** TOTAL PAGE 024 **

DEC 18 '96 15:27 FROM TO 3379335 PAGE 024/024