



LEVINE•FRICKE

ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

July 6, 1994

LF 1204

Mr. Scott Seery
Senior Hazardous Materials Specialist
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94501

ALCO
HAZMAT
94 JUL 12 AM 10:05

Subject: Polvorosa Business Park
1555 Doolittle Drive
San Leandro, California
(Alameda County STID #4462)

Dear Mr. Seery:

This letter is written in response to your May 20, 1994 letter to Mr. Stephen Chamberlin of Rouse & Associates. The letter concerned the Polvorosa Business Park in San Leandro, California ("the Site"). In the letter, you accepted Levine-Fricke's August 6, 1993 proposal to resume sampling of monitoring wells at the Site with two changes. First it was requested that all wells in the network were to be sampled, not only the five that were proposed. Secondly, it was requested that the water sample analyses be amended to include total petroleum hydrocarbons as gasoline (TPHg).

Listed below are our responses to these requests.

Levine-Fricke Response to Request One

There are a total of eight monitoring wells at the Site and at an adjacent property (see Figure 1). The six onsite monitoring wells include: MW-3, MW-8, MW-10, LF-12, LF-12A, LF-13 and LF-14. Monitoring well LF-15 is located on an adjacent property. We propose to collect and analyzed water samples from seven of these wells. As shown on Figure 1, two of the wells, LF-12 and LF-12A, are located only 10 feet apart. Water level readings will be taken in both wells, however, it is our opinion that due to the close proximity of the wells, collection of one ground water sample from well LF-12 will be sufficient to provide water quality data from this area. Per your request, we are currently in the process of contacting the owner of the adjacent property to request access to monitoring well LF-15.

Levine-Fricke Response to Request Two

Ground water samples will be analyzed for TPHg, TPH as diesel

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

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and benzene, toluene, ethlybenzene and xylenes.

Additionally, enclosed are copies of analytical results of samples collected from the treatment system effluent water. These samples were collected by the City of San Leandro in accordance with the treatment system discharge permit. These analytical results represent the final remaining data contained in our files for the Site.

Please contact me or Ted Splitter if you wish to discuss our proposed monitoring plan. Per your request, we will contact you prior to conducting the water sampling.

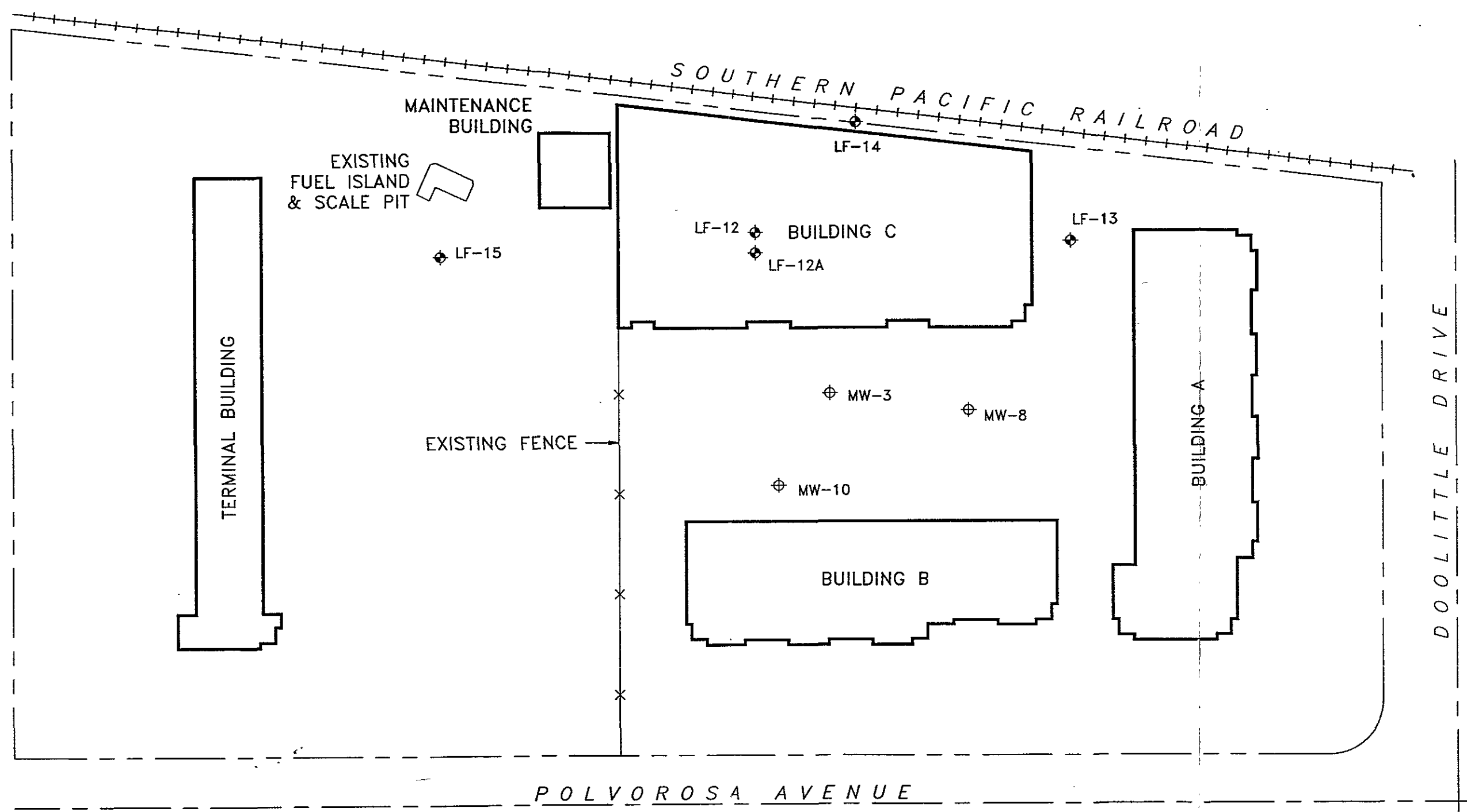
Sincerely,



Michael Stoll, P.E.
Project Engineer

cc: Mr. Stephen Chamberlin - Rouse & Associates

enclosure



EXPLANATION

- ◆ Approximate well location (installed by Levine-Fricke)
- ⊕ Approximate well location (installed by others)

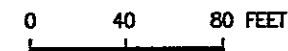


Figure 1 :
SITE PLAN

MULTI - TECH, A Division of
Environmental Testing and Certification Corp.
320 Tesconi Circle, Suite G
Santa Rosa, California 95401
707-544-5570



August 21, 1989

CLIENT: CITY OF SAN LEANDRO
3000 DAVIS STREET
SAN LEANDRO, CA 94577

ATTN: PAUL ZOLFARELLI

ANALYSIS: CAC METALS, EPA METHOD 624: PURGEABLES, EPA METHOD 625: BASE/NEUTRALS AND ACIDS
QC BATCH NUMBER: 89-2307, 89-2250
PROJECT: ROUSE/POLVORASA /P
SAMPLE TYPE: LIQUID
COLLECTED BY: CLIENT

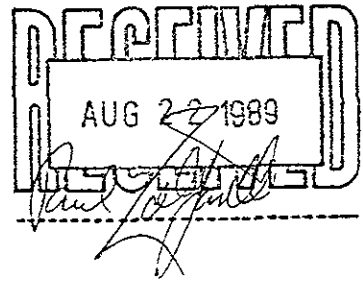
<u>SAMPLE NO.</u>	<u>SAMPLE POINT</u>	<u>SAMPLE DATE</u>	<u>DATE IN LAB</u>
MA5176	T-7-039	07-31-89	07-31-89

This report is "PROPRIETARY AND CONFIDENTIAL" and delivered to, and intended for the exclusive use of the above named client only. Environmental Testing and Certification Corp. assumes no responsibility or liability for the reliance hereon or use hereof by anyone other than the above named client.

The analyses and data interpretation that form the basis of this report were prepared under the direct supervision and control of the undersigned who is solely responsible for the contents and conclusions therein.

Reviewed and
Approved by: *Cheryl Smith*
Cheryl Smith, Analytical Director
ETC/Multi-Tech Laboratories, Inc.

8/22/89
Date



PROJECT: ROUSE/POLVORASA /P

CAC METALS - LIQUID

Sample Number: MA5176
 Client ID: T-7-039

Analyte	EPA Prep Method	Prep Date	EPA Analysis Method	Analysis Date	Result (mg/L)	Reporting Limit (mg/L)
Total Antimony	*	08-04-89	200.7	08-05-89	ND	1
Total Arsenic	206.5	08-10-89	206.3	08-11-89	ND	0.005
Total Barium	*	08-04-89	200.7	08-05-89	0.4	0.1
Total Beryllium	*	08-04-89	200.7	08-05-89	ND	0.01
Total Cadmium	*	08-04-89	200.7	08-05-89	ND	0.1
Total Chromium	*	08-04-89	200.7	08-05-89	ND	0.1
Total Cobalt	*	08-04-89	200.7	08-05-89	ND	0.1
Total Copper	*	08-04-89	200.7	08-05-89	ND	0.1
Total Lead	*	08-04-89	239.1	08-06-89	ND	0.1
Total Mercury	245.1	08-16-89	245.1	08-17-89	ND	0.001
Total Molybdenum	*	08-04-89	200.7	08-05-89	ND	0.1
Total Nickel	*	08-04-89	200.7	08-05-89	ND	0.1
Total Selenium	206.5	08-14-89	270.3	08-15-89	ND	0.001
Total Silver	*	08-04-89	272.1	08-06-89	ND	0.05
Total Thallium	*	08-04-89	279.1	08-06-89	ND	0.5
Total Vanadium	*	08-04-89	200.7	08-05-89	ND	0.1
Total Zinc	*	08-04-89	200.7	08-05-89	ND	0.1

Date Preserved: 08-05-89

*The sample was prepared following the method outlined in metals, section 4.1.3 of EPA-600/4-79-020, March, 1983.

ND = None Detected

PROJECT: ROUSE/POLVORASA /P

EPA METHOD 624: PURGEABLE ORGANICS

QC Batch Number: 89-2307
Date analyzed: 08-07-89, 08-11-89 & 08-12-89

Sample Number:	MA5176		
Client ID:	T-7-039		
	<u>Result (ug/L)</u>	<u>Reporting Limit (ug/L)*</u>	
Acetone	ND	200	
Benzene	ND	10	
Bromodichloromethane	ND	10	
Bromoform	ND	10	
Bromomethane	ND	20	
2-Butanone	ND	20	
Carbon disulfide	ND	10	
Carbon tetrachloride	ND	10	
Chlorobenzene	ND	10	
Chloroethane	ND	20	
2-Chloroethylvinyl ether	ND	20	
Chloroform	ND	10	
Chloromethane	ND	20	
Dibromochloromethane	ND	10	
1,1-Dichloroethane	ND	10	
1,2-Dichloroethane	ND	10	
1,1-Dichloroethene	ND	10	
trans-1,2-Dichloroethene	ND	10	
1,2-Dichloropropane	ND	10	
cis-1,3-Dichloropropene	ND	10	
trans-1,3-Dichloropropene	ND	10	
Ethyl benzene	ND	10	
2-Hexanone	ND	20	
Methylene chloride	ND	10	
4-Methyl-2-Pentanone	ND	20	
Styrene	ND	10	
1,1,2,2-Tetrachloroethane	ND	10	
Tetrachloroethene	ND	10	
Toluene	ND	10	
1,1,1-Trichloroethane	ND	10	
1,1,2-Trichloroethane	ND	10	
Trichloroethene	ND	10	
Trichlorofluoromethane	ND	10	
Vinyl acetate	ND	20	
Vinyl chloride	ND	20	
Total Xylenes	ND	10	

SURROGATE RECOVERIES:

1,2-Dichloroethane-D4	106%
Toluene-D8	102%
Bromofluorobenzene	104%

*These reporting limits are higher than usual due to suspected contamination revealed in screening.

ND = None Detected

PROJECT: ROUSE/POLVORASA /P

QUALITY ASSURANCE REPORT

EPA METHOD 624: PURGEABLE ORGANICS

QC BATCH NUMBER: 89-2307

METHOD BLANK SUMMARY

Date:	08-07-89 <u>Result</u> (ug/L)	08-11-89 <u>Result</u> (ug/L)	Reporting <u>Limit</u> (ug/L)
Acetone	ND	ND	100
Benzene	ND	ND	5
Bromodichloromethane	ND	ND	5
Bromoform	ND	ND	5
Bromomethane	ND	ND	10
2-Butanone	ND	ND	10
Carbon disulfide	ND	ND	5
Carbon tetrachloride	ND	ND	5
Chlorobenzene	ND	ND	5
Chloroethane	ND	ND	10
2-Chloroethylvinyl ether	ND	ND	10
Chloroform	ND	ND	5
Chloromethane	ND	ND	10
Dibromochloromethane	ND	ND	5
1,1-Dichloroethane	ND	ND	5
1,2-Dichloroethane	ND	ND	5
1,1-Dichloroethene	ND	ND	5
trans-1,2-Dichloroethene	ND	ND	5
1,2-Dichloropropane	ND	ND	5
cis-1,3-Dichloropropene	ND	ND	5
trans-1,3-Dichloropropene	ND	ND	5
Ethyl benzene	ND	ND	5
2-Hexanone	ND	ND	10
Methylene chloride	ND	ND	5
4-Methyl-2-Pentanone	ND	ND	10
Styrene	ND	ND	5
1,1,2,2-Tetrachloroethane	ND	ND	5
Tetrachloroethene	ND	ND	5
Toluene	ND	ND	5
1,1,1-Trichloroethane	ND	ND	5
1,1,2-Trichloroethane	ND	ND	5
Trichloroethene	ND	ND	5
Trichlorofluoromethane	ND	ND	5
Vinyl acetate	ND	ND	10
Vinyl chloride	ND	ND	10
Total Xylenes	ND	ND	5
Acrolein*	ND	ND	1000
Acrylonitrile*	ND	ND	500

*The analysis for Acrolein and Acrylonitrile are qualitative screens and not intended for quantitative purposes.

ND = None Detected

(QC 624 CONTINUED)

PROJECT: ROUSE/POLVORASA /P

QC BATCH NUMBER 89-2307, EPA METHOD 624 PURGEABLE ORGANICS (CON'T)

- QC CHECK SAMPLES -

- MATRIX SPIKES -

	QC Check	QC Check	RPD	Matrix	Spike	RPD
	Sample-1	Sample-2		Spike	Duplicate	
	Recovery	Recovery		Recovery	Recovery	
	(%)	(%)	(%)	(%)	(%)	(%)
1,1,-Dichloroethene	105	105	0	100	100	0
Trichloroethene	110	110	0	102	102	0
Chlorobenzene	110	110	0	102	108	6
Toluene	105	110	5	98	98	0
Benzene	105	110	5	96	100	4

This batch passes method quality control acceptance criteria.

PROJECT: ROUSE/POLVORASA /P

EPA METHOD 625: BASE/NEUTRALS AND ACIDS

QC Batch Number: 89-2250
Date extracted: 08-07-89
Date analyzed: 08-11-89

SAMPLE NUMBER:
CLIENT ID:

MA5176
T-7-039
Results (ug/L) Reporting Limits (ug/L)

Acenaphthene	ND	10
Acenaphthylene	ND	10
Anthracene	ND	10
Benzidine	ND	10
Benzo(a)anthracene	ND	10
Benzo(b)fluoranthene	ND	10
Benzo(k)fluoranthene	ND	10
Benzo(g,h,i)perylene	ND	10
Benzo(a)pyrene	ND	10
Benzoic acid	ND	50
Benzyl alcohol	ND	10
4-Bromophenyl phenyl ether	ND	10
Butyl benzyl phthalate	ND	10
Di-n-butyl phthalate	ND	10
4-Chloroaniline	ND	10
bis(2-Chloroethoxy)methane	ND	10
bis(2-Chloroethyl)ether	ND	10
bis(2-Chloroisopropyl)ether	ND	10
4-Chloro-3-methylphenol	ND	10
2-Chloronaphthalene	ND	10
2-Chlorophenol	ND	10
4-Chlorophenyl phenyl ether	ND	10
Chrysene	ND	10
Dibenz(a,h)anthracene	ND	10
Dibenzofuran	ND	10
1,2-Dichlorobenzene	ND	10
1,3-Dichlorobenzene	ND	10
1,4-Dichlorobenzene	ND	10
3,3'-Dichlorobenzidine	ND	20
2,4-Dichlorophenol	ND	10
diethylphthalate	ND	10
2,4-dimethylphenol	ND	10
Dimethyl phthalate	ND	10
4,6-Dinitro-2-methylphenol	ND	50
2,4-Dinitrophenol	ND	50
2,4-Dinitrotoluene	ND	10
2,6-Dinitrotoluene	ND	10
1,2-Diphenylhydrazine	ND	10
bis(2-Ethylhexyl)phthalate	ND	10
Fluoranthene	ND	10
Fluorene	ND	10

ND = None Detected

(625 ANALYSIS CONTINUED)

PROJECT: ROUSE/POLVORASA /P

EPA METHOD 625: BASE/NEUTRALS AND ACIDS (con't)

	<u>Results (ug/L)</u>	<u>Reporting Limits (ug/L)</u>
Hexachlorobutadiene	ND	10
Hexachlorobenzene	ND	10
Hexachlorocyclopentadiene	ND	10
Hexachloroethane	ND	10
Indeno(1,2,3-cd)pyrene	ND	10
Isophorone	ND	10
2-Methylnaphthalene	ND	10
2-Methylphenol	ND	10
4-Methylphenol	ND	10
Naphthalene	ND	10
2-Nitroaniline	ND	50
3-Nitroaniline	ND	50
4-Nitroaniline	ND	50
Nitrobenzene	ND	10
2-Nitrophenol	ND	10
4-Nitrophenol	ND	50
N-Nitrosodimethylamine	ND	10
N-Nitrosodiphenylamine	ND	10
N-Nitrosodi-n-propylamine	ND	10
di-n-Octyl phthalate	ND	10
Pentachlorophenol	ND	50
Phenanthrene	ND	10
Phenol	ND	10
Pyrene	ND	10
1,2,4-Trichlorobenzene	ND	10
2,4,5-Trichlorophenol	ND	10
2,4,6-Trichlorophenol	ND	10

The analysis of this sample indicates the presence of low to medium boiling point petroleum hydrocarbons. Such hydrocarbons are typically found in gasoline, jet fuel, or mineral spirits.

SURROGATE RECOVERIES

2-Fluorophenol	28%
Phenol d6	35%
2,4,6-Tribromophenol	74%
Nitrobenzene d5	66%
2-Fluorobiphenyl	76%
Terphenyl d14	78%

ND = None Detected

PROJECT: ROUSE/POLVORASA /P

QUALITY ASSURANCE REPORT

EPA METHOD 625: GC/MS SEMIVOLATILE ORGANICS

QC BATCH NUMBER: 89-2250
DATE OF ANALYSIS: 08-11-89

METHOD BLANK SUMMARY

	<u>Method Blank</u> (ug/L)		<u>Method Blank</u> (ug/L)
Acenaphthene	ND	Di-n-octylphthalate	ND
Acenaphthylene	ND	Fluoranthene	ND
Anthracene	ND	Fluorene	ND
Benzo(a)anthracene	ND	Hexachlorobenzene	ND
Benzo(b)fluoranthene	ND	Hexachlorobutadiene	ND
Benzo(k)fluoranthene	ND	Hexachlorethane	ND
Benzo(a)pyrene	ND	Hexachlorocyclopentadiene	ND
Benzo(g,h,i)Perylene	ND	Indeno(1,2,3-cd)pyrene	ND
Benzidine	ND	Isophorone	ND
Bis(2-chloroethyl)ether	ND	Naphthalene	ND
Bis(2-chloroethoxy)methane	ND	Nitrobenzene	ND
Bis(2-ethylhexyl)phthalate	ND	N-Nitrosodimethylamine	ND
Bis(2-chloroisopropyl)ether	ND	N-Nitrosodi-n-Propylamine	ND
4-Bromophenyl phenyl ether	ND	N-Nitrosodiphenylamine	ND
Butyl benzyl phthalate	ND	Phenanthrene	ND
2-Chloronaphthalene	ND	Pyrene	ND
4-Chlorophenyl phenyl ether	ND	1,2,4-Trichlorobenzene	ND
Chrysene	ND	4-Chloro-3-methylphenol	ND
Dibenzo(a,h)anthracene	ND	2-Chlorophenol	ND
Di-n-butylphthalate	ND	2,4-Chlorophenol	ND
1,3-Dichlorobenzene	ND	2,4-Dimethylphenol	ND
1,4-Dichlorobenzene	ND	2-Methyl-4,6-Dinitrophenol	ND
1,2-Dichlorobenzene	ND	2-Nitrophenol	ND
3,3'-Dichlorobenzidine	ND	4-Nitrophenol	ND
Diethylphthalate	ND	Pentachlorophenol	ND
Dimethylphthalate	ND	Phenol	ND
2,4-Dinitrotoluene	ND	2,4,6-Trichlorophenol	ND
2,6-Dinitrotoluene	ND	2,4,5-Trichlorophenol	ND

ND = None Detected

(625 QC CONTINUED)

PROJECT: ROUSE/POLVORASA /P

QC BATCH NUMBER 89-2250, EPA METHOD 625: GC/MS SEMIVOLATILE ORGANICS (CON'T)

DATE ANALYZED: 08-09-89

	QC Check Sample-1 Recovery (%)	QC Check Sample-2 Recovery (%)	RPD (%)
1,2,4-Trichlorobenzene	58	64	10
Acenaphthene	62	68	9
2,4-Dinitrotoluene	60	66	10
Di-n-butylphthalate	78	84	7
Pyrene	76	78	2
n-Nitroso-Di-n-propylamine	56	62	10
1,4-Dichlorobenzene	46	52	12
Pentachlorophenol	80	85	6
Phenol	28	31	10
2-Chlorophenol	50	58	15
4-Chloro-3-Methylphenol	59	65	10
4-Nitrophenol	24	25	4

DATE ANALYZED: 08-11-89

- QC CHECK SAMPLES -

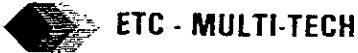
- MATRIX SPIKES -

	QC Check Sample-1 Recovery (%)	QC Check Sample-2 Recovery (%)	RPD (%)	Matrix Spike Recovery (%)	Spike Duplicate Recovery (%)	RPD (%)
1,2,4-Trichlorobenzene	60	68	12	66	72	9
Acenaphthene	64	70	9	66	72	9
2,4-Dinitrotoluene	62	66	6	62	64	3
Di-n-butylphthalate	60	62	3	64	64	0
Pyrene	72	76	5	74	72	3
n-Nitroso-Di-n-propylamine	64	68	6	64	72	12
1,4-Dichlorobenzene	50	54	8	54	58	7
Pentachlorophenol	89	100	12	112	116	4
Phenol	28	30	7	28	32	13
2-Chlorophenol	52	58	11	55	63	14
4-Chloro-3-Methylphenol	62	69	11	63	69	9
4-Nitrophenol	4	0	200	4	16	120

This batch passes method quality control acceptance criteria.

rm

MULTI - TECH, A Division of
Environmental Testing and Certification Corp.
320 Tesconi Circle, Suite G
Santa Rosa, California 95401
707-544-5570



NOVEMBER 16, 1989

CLIENT: CITY OF SAN LEANDRO
3000 DAVIS STREET
SAN LEANDRO, CA 94577

ATTN: PAUL ZOLFARELLI

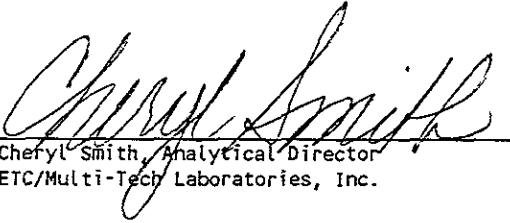
ANALYSIS: EPA METHOD 625, EPA METHOD 624, EPA METHOD 508, TOTAL METALS
QC BATCH NUMBER: 89-2828, 89-2872, 89-2829
PROJECT: ROUSE & ASSOC. /P
SAMPLE TYPE: LIQUID
COLLECTED BY: CLIENT

<u>SAMPLE NO.</u>	<u>SAMPLE POINT</u>	<u>SAMPLE DATE</u>	<u>DATE IN LAB</u>
MA6239	T-10-001	10-04-89	10-05-89

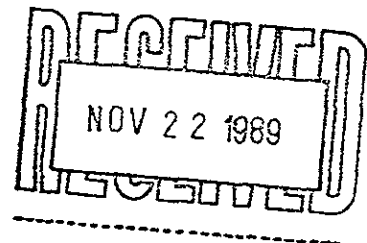
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The analyses and data interpretation that form the basis of this report were prepared under the direct supervision and control of the undersigned who is solely responsible for the contents and conclusions therein.

Reviewed and
Approved by:


Cheryl Smith, Analytical Director
ETC/Multi-Tech Laboratories, Inc.

11/17/89
Date



CITY OF SAN LEANDRO
NOVEMBER 16, 1989

PROJECT: ROUSE & ASSOC. /P

SAMPLE NUMBER: MA6239
CLIENT ID: T-10-001

EPA METHOD 625

Date Extracted: 10-11-89
Date Analyzed: 10-27-89
QC Batch Number: 89-2828

EPA METHOD 624

Date Analyzed: 10-16-89
10-17-89
QC Batch Number: 89-2872

EPA METHOD 508

Date Extracted: 10-12-89
Date Analyzed: 11-08-89
11-12-89
QC Batch Number: 89-2829

<u>Parameter</u>	<u>EPA Prep Method</u>	<u>Prep Date</u>	<u>EPA Analysis Method</u>	<u>Analysis Date</u>
Total Antimony	*	10-07-89	204.2	10-12-89
Total Arsenic	206.5	10-09-89	206.3	10-12-89
Total Barium	*	10-07-89	200.7	10-12-89
Total Beryllium	*	10-07-89	200.7	10-12-89
Total Cadmium	*	10-07-89	213.2	10-10-89
Total Chromium	*	10-07-89	218.2	10-08-89
Total Cobalt	*	10-07-89	200.7	10-12-89
Total Copper	*	10-07-89	220.2	10-18-89
Total Lead	*	10-07-89	239.2	10-07-89
Total Mercury	245.1	10-13-89	245.1	10-13-89
Total Molybdenum	*	10-07-89	200.7	10-12-89
Total Nickel	*	10-07-89	249.2	10-12-89
Total Selenium	206.5	10-09-89	270.3	10-12-89
Total Silver	*	10-07-89	272.2	10-09-89
Total Thallium	*	10-07-89	279.2	10-07-89
Total Vanadium	*	10-07-89	200.7	10-12-89
Total Zinc	*	10-07-89	200.7	10-12-89

*The sample was prepared following the method outlined in metals, section 4.1.3 of EPA-600/4-79-020, March, 1983.

TABLE 1: QUANTITATIVE RESULTS

EPA METHOD 625: BASE/NEUTRALS AND ACID EXTRACTABLES

Chain of Custody Data Required for ETC Data Management Summary Reports					
MA6239	CITY OF SAN LEANDRO	600-007	10-001	891004	0
ETC Sample No.	Company	Facility	Sample Point	Date	Time Hours

QRM00533

Compound	Results		
	Sample Concen. ug/l	MDL ug/l	Blank Data ug/l
Acenaphthene	ND	10	N/A
Acenaphthalene	ND	10	N/A
Anthracene	ND	10	N/A
Benzidine	ND	10	N/A
Benzo(a)anthracene	ND	10	N/A
Benzo(b)fluoranthene	ND	10	N/A
Benzo(k)fluoranthene	ND	10	N/A
Benzo(ghi)perylene	ND	10	N/A
Benzo(a)pyrene	ND	10	N/A
Benzoic acid	ND	50	N/A
Benzyl alcohol	ND	10	N/A
4-Bromophenyl phenyl ether	ND	10	N/A
Butyl benzyl phthalate	ND	10	N/A
Di-n-butyl phthalate	14	10	N/A
4-Chloroaniline	ND	10	N/A
bis(2-Chloroethoxy)methane	ND	10	N/A
bis(2-Chloroethyl) ether	ND	10	N/A
bis(2-Chloroisopropyl)ether	ND	10	N/A
4-Chloro-3-methylphenol	ND	10	N/A
2-Chloronaphthalene	ND	10	N/A
2-Chlorophenol	ND	10	N/A
4-Chlorophenyl phenyl ether	ND	10	N/A
Chrysene	ND	10	N/A
Dibenzo[a,h]anthracene	ND	10	N/A
Dibenzofuran	ND	10	N/A
1,2-Dichlorobenzene	ND	10	N/A
1,3-Dichlorobenzene	ND	10	N/A
1,4-Dichlorobenzene	ND	10	N/A
3,3'-Dichlorobenzidine	ND	20	N/A
2,4-Dichlorophenol	ND	10	N/A
Diethyl phthalate	ND	10	N/A
2,4-Dimethylphenol	ND	10	N/A
Dimethyl phthalate	ND	10	N/A
4,6-Dinitro-2-methylphenol	ND	50	N/A
2,4-Dinitrophenol	ND	50	N/A
2,4-Dinitrotoluene	ND	10	N/A
2,6-Dinitrotoluene	ND	10	N/A
1,2-Diphenylhydrazine	ND	10	N/A
bis(2-Ethylhexyl)phthalate	ND	10	N/A

ND = None Detected
 NA = Not Applicable

7

TABLE 1: QUANTITATIVE RESULTS
EPA METHOD 625: BASE/NEUTRALS AND ACID EXTRACTABLES

Chain of Custody Data Required for ETC Data Management Summary Reports

MA6239 CITY OF SAN LEANDRO 600-007 10-001 891004 0

QRM00533

ETC Sample No. Company Facility Sample Point Date Time Hours

Compound	Results		
	Sample Concen. ug/l	MDL ug/l	Blank Data ug/l
Fluoranthene	ND	10	N/A
Fluorene	ND	10	N/A
Hexachlorobutadiene	ND	10	N/A
Hexachlorobenzene	ND	10	N/A
Hexachlorocyclopentadiene	ND	10	N/A
Hexachloroethane	ND	10	N/A
Indeno(1,2,3-cd)pyrene	ND	10	N/A
Isophorone	ND	10	N/A
2-Methylnaphthalene	ND	10	N/A
2-Methylphenol	ND	10	N/A
4-Methylphenol	ND	10	N/A
Naphthalene	ND	10	N/A
2-Nitroaniline	ND	50	N/A
3-Nitroaniline	ND	50	N/A
4-Nitroaniline	ND	50	N/A
Nitrobenzene	ND	10	N/A
2-Nitrophenol	ND	10	N/A
4-Nitrophenol	ND	50	N/A
N-Nitrosodimethylamine	ND	10	N/A
N-Nitrosodiphenylamine	ND	10	N/A
N-Nitrosodi-n-propylamine	ND	10	N/A
Di-n-octyl phthalate	ND	10	N/A
Pentachlorophenol	ND	50	N/A
Phenanthrene	12	10	N/A
Phenol	ND	10	N/A
Pyrene	ND	10	N/A
1,2,4-Trichlorobenzene	ND	10	N/A
2,4,5-Trichlorophenol	ND	10	N/A
2,4,6-Trichlorophenol	ND	10	N/A

ND = None Detected
NA = Not Applicable

TABLE 1: QUANTITATIVE RESULTS

EPA METHOD 624: PURGEABLE ORGANICS

Chain of Custody Data Required for ETC Data Management Summary Reports

MA6239 CITY OF SAN LEANDRO

600-007

10-001

891004

0

QRM00533

ETC Sample No.

Company

Facility Sample Point

Date Time Hours

Compound	Results			
	Sample Concn. ug/l	MDL ug/l	Blank Data ug/l	
Acetone	ND	100	N/A	
Benzene	ND	5	N/A	
Bromodichloromethane	ND	5	N/A	
Bromoform	ND	5	N/A	
Bromoethane	ND	10	N/A	
2-Butanone	ND	10	N/A	
Carbon disulfide	ND	5	N/A	
Carbon tetrachloride	ND	5	N/A	
Chlorobenzene	ND	5	N/A	
Chloroethane	ND	10	N/A	
2-Chloroethylvinyl ether	ND	10	N/A	
Chloroform	ND	5	N/A	
Chloromethane	ND	10	N/A	
Dibromochloromethane	ND	5	N/A	
1,1-Dichloroethane	ND	5	N/A	
1,2-Dichloroethane	ND	5	N/A	
1,1-Dichloroethene	ND	5	N/A	
trans-1,2-Dichloroethene	ND	5	N/A	
1,2-Dichloropropane	ND	5	N/A	
cis-1,3-Dichloropropene	ND	5	N/A	
trans-1,3-Dichloropropene	ND	5	N/A	
Ethylbenzene	ND	5	N/A	
2-Hexanone	ND	10	N/A	
Methylene chloride	ND	5	N/A	
4-Methyl-2-pentanone	ND	10	N/A	
Styrene	ND	5	N/A	
1,1,2,2-Tetrachloroethane	ND	5	N/A	
Tetrachloroethene	ND	5	N/A	
Toluene	ND	5	N/A	
1,1,1-Trichloroethane	ND	5	N/A	
1,1,2-Trichloroethane	ND	5	N/A	
Trichloroethene	ND	5	N/A	
Trichlorofluoromethane	ND	5	N/A	
Vinyl acetate	ND	10	N/A	
Vinyl chloride	ND	10	N/A	
Xylenes	ND	5	N/A	

ND = None Detected
NA = Not Applicable

X

TABLE 1: QUANTITATIVE RESULTS

ORGANOCHLORINE PESTICIDES AND PCB'S

Chain of Custody Data Required for ETC Data Management Summary Reports				
MA6239	CITY OF SAN LEANDRO	600-007	10-001	891004 0
ETC Sample No.	Company	Facility	Sample Point	Date Time Hours

QRM00533

Compound	Results			*These detection limits are higher than usual due to matrix interferences.
	Sample Concen. ug/l	MDL* ug/l	Blank Data ug/l	
Aldrin	ND	100	N/A	
Alpha-BHC	ND	100	N/A	
Beta-BHC	ND	100	N/A	
Delta-BHC	ND	100	N/A	
Gamma-BHC	ND	100	N/A	
Chlordane	ND	2500	N/A	
4,4'-DDD	ND	100	N/A	
4,4'-DDE	ND	100	N/A	
4,4'-DDT	ND	100	N/A	
Dieldrin	ND	100	N/A	
Endosulfan I	ND	100	N/A	
Endosulfan II	ND	100	N/A	
Endosulfan sulfate	ND	100	N/A	
Endrin	ND	100	N/A	
Endrin aldehyde	ND	100	N/A	
Heptachlor	ND	100	N/A	
Heptachlor epoxide	ND	100	N/A	
Methoxychlor	ND	100	N/A	
Toxaphene	ND	2500	N/A	
PCB-1016	ND	200	N/A	
PCB-1221	ND	200	N/A	
PCB-1232	ND	200	N/A	
PCB-1242	ND	200	N/A	
PCB-1248	ND	200	N/A	
PCB-1254	ND	200	N/A	
PCB-1260	ND	200	N/A	

ND = None Detected
 NA = Not Applicable

X

TABLE 2: METHOD PERFORMANCE DATA

SURROGATE RECOVERY

Chain of Custody Data Required for ETC Data Management Summary Reports

MA6239	CITY OF SAN LEANDRO	600-007	10-001	891004	0
ETC Sample No.	Company	Facility	Sample Point	Date	Time Hours

Compound	Amount added ug/l	% Recovery	Control Limits	
			Lower	Upper
VOLATILE FRACTION (GC/MS)				
1,2-Dichloroethane-D4	50.0	104	0	0
Bromofluorobenzene	50.0	100	0	0
Toluene-D8	50.0	98	0	0
BASE/NEUTRAL FRACTION (GC/MS)				
Nitrobenzene-D5	50	84	0	0
2-Fluorobiphenyl	50	88	0	0
Terphenyl-D14	50	68	0	0
ACID FRACTION (GC/MS)				
Phenol-D6	100	90	0	0
2-Fluorophenol	100	49	0	0
2,4,6-Tribromophenol	100	86	0	0
PESTICIDE/PCB FRACTION (GC)				
Dibutylchloroendate	20	110	0	0
Bromochloromethane	-	-	-	-
a,a,a-Trifluorotoluene	-	-	-	-

TABLE 1: QUANTITATIVE RESULTS

NOV 16, 1989

CAC TOTAL METALS

Chain of Custody Data Required for ETC Data Management Summary Reports					
MA6239	CITY OF SAN LEANDRO	600-007	10-001	891004	0
ETC Sample No.	Company	Facility	Sample Point	Date	Time Hours

QRM00533

Compound	Results		
	Sample Concen. mg/l	MDL mg/l	Blank Data mg/l
Antimony, Total	ND	.005	N/A
Arsenic, Total	.006	.005	N/A
Barium, Total	.40	.004	N/A
Beryllium, Total	ND	.001	N/A
Cadmium, Total	ND	.001	N/A
Chromium, Total	.01	.01	N/A
Cobalt, Total	.01	.01	N/A
Copper, Total	.001*	.001	N/A
Lead, Total	ND	.005	N/A
Mercury, Total	ND	.001	N/A
Molybdenum, Total	ND	.05	N/A
Nickel, Total	ND	.005	N/A
Selenium, Total	ND	.001	N/A
Silver, Total	ND	.001	N/A
Thallium, Total	ND	.005	N/A
Vanadium, Total	.01	.01	N/A
Zinc, Total	ND	.02	N/A

*The blank contained copper at 0.003 mg/l. This value was not subtracted from the final result.

ND = None Detected
NA = Not Applicable

X

CITY OF SAN LEANDRO
NOVEMBER 16, 1989

PROJECT: ROUSE & ASSOC. /P

QUALITY ASSURANCE REPORT

EPA METHOD 625: GC/MS SEMIVOLATILE ORGANICS

QC BATCH NUMBER: 89-2828
DATE OF ANALYSIS: 10-27-89

METHOD BLANK SUMMARY

<u>Method Blank</u> (ug/L)		<u>Method Blank</u> (ug/L)	
Acenaphthene	ND	Di-n-octylphthalate	ND
Acenaphthylene	ND	Fluoranthene	ND
Anthracene	ND	Fluorene	ND
Benzo(a)anthracene	ND	Hexachlorobenzene	ND
Benzo(b)fluoranthene	ND	Hexachlorobutadiene	ND
Benzo(k)fluoranthene	ND	Hexachlorethane	ND
Benzo(a)pyrene	ND	Hexachlorocyclopentadiene	ND
Benzo(g,h,i)Perylene	ND	Indeno(1,2,3-cd)pyrene	ND
Benzidine	ND	Isophorone	ND
Bis(2-chloroethyl)ether	ND	Naphthalene	ND
Bis(2-chloroethoxy)methane	ND	Nitrobenzene	ND
Bis(2-ethylhexyl)phthalate	ND	N-Nitrosodimethylamine	ND
Bis(2-chloroisopropyl)ether	ND	N-Nitrosodi-n-Propylamine	ND
4-Bromophenyl phenyl ether	ND	N-Nitrosodiphenylamine	ND
Butyl benzyl phthalate	ND	Phenanthrene	ND
2-Chloronaphthalene	ND	Pyrene	ND
4-Chlorophenyl phenyl ether	ND	1,2,4-Trichlorobenzene	ND
Chrysene	ND	4-Chloro-3-methylphenol	ND
Dibenzo(a,h)anthracene	ND	2-Chlorophenol	ND
Di-n-butylphthalate	ND	2,4-Chlorophenol	ND
1,3-Dichlorobenzene	ND	2,4-Dimethylphenol	ND
1,4-Dichlorobenzene	ND	2-Methyl-4,6-Dinitrophenol	ND
1,2-Dichlorobenzene	ND	2-Nitrophenol	ND
3,3'-Dichlorobenzidine	ND	4-Nitrophenol	ND
Diethylphthalate	ND	Pentachlorophenol	ND
Dimethylphthalate	ND	Phenol	ND
2,4-Dinitrotoluene	ND	2,4,6-Trichlorophenol	ND
2,6-Dinitrotoluene	ND	2,4,5-Trichlorophenol	ND
1,2-Diphenylhydrazine	ND		

ND = None Detected

(625 QC CONTINUED)

CITY OF SAN LEANDRO
NOVEMBER 16, 1989

PROJECT: ROUSE & ASSOC. /P

QC BATCH NUMBER 89-2828, EPA METHOD 625: GC/MS SEMIVOLATILE ORGANICS (CON'T)

- QC CHECK SAMPLES -

- MATRIX SPIKES -

	QC Check Sample-1 Recovery (%)	QC Check Sample-2 Recovery (%)	RPD (%)	Matrix Spike Recovery (%)	Spike Duplicate Recovery (%)	RPD (%)
Pentachlorophenol	79	68	15	84	77	9
Phenol	72	60	18	67	62	8
2-Chlorophenol	73	62	16	70	64	9
4-Chloro-3-Methylphenol	73	65	12	72	67	7
4-Nitrophenol	59	53	11	66	54	20
1,2,4-Trichlorobenzene	80	70	13	78	72	8
Acenaphthene	78	68	14	80	72	10
2,4-Dinitrotoluene	78	68	14	80	74	8
Di-n-butylphthalate	52	46	12	50	50	0
Pyrene	88	76	15	86	92	7
n-Nitroso-Di-n-propylamine	86	76	12	92	78	16
1,4-Dichlorobenzene	66	54	20	62	56	10

This batch passes method quality control acceptance criteria.

CITY OF SAN LEANDRO
NOVEMBER 16, 1989

PROJECT: ROUSE & ASSOC. /P

QUALITY ASSURANCE REPORT

EPA METHOD 624: PURGEABLE ORGANICS

QC BATCH NUMBER: 89-2872
DATE ANALYZED: 10-16-89

METHOD BLANK SUMMARY

	<u>Result</u> (ug/L)	<u>Detection</u> <u>Limit</u> (ug/L)
Acetone	ND	100
Benzene	ND	5
Bromodichloromethane	ND	5
Bromoform	ND	5
Bromomethane	ND	10
2-Butanone	ND	10
Carbon disulfide	ND	5
Carbon tetrachloride	ND	5
Chlorobenzene	ND	5
Chloroethane	ND	10
2-Chloroethylvinyl ether	ND	10
Chloroform	ND	5
Chloromethane	ND	10
Dibromochloromethane	ND	5
1,1-Dichloroethane	ND	5
1,2-Dichloroethane	ND	5
1,1-Dichloroethene	ND	5
trans-1,2-Dichloroethene	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
trans-1,3-Dichloropropene	ND	5
Ethyl benzene	ND	5
2-Hexanone	ND	10
Methylene chloride	ND	5
4-Methyl-2-Pentanone	ND	10
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethene	ND	5
Toluene	ND	5
1,1,1-Trichloroethane	ND	5
1,1,2-Trichloroethane	ND	5
Trichloroethene	ND	5
Trichlorofluoromethane	ND	5
Vinyl acetate	ND	10
Vinyl chloride	ND	10
Total Xylenes	ND	5
Acrolein	ND	1000
Acrylonitrile	ND	500

*The analysis for Acrolein and Acrylonitrile are qualitative screens and not intended for quantitative purposes.

ND = None Detected

(QC 624 CONTINUED)

CITY OF SAN LEANDRO
NOVEMBER 16, 1989

PROJECT: ROUSE & ASSOC. /P

QC BATCH NUMBER 89-2872, EPA METHOD 624 PURGEABLE ORGANICS (CON'T)

- QC CHECK SAMPLES -

- MATRIX SPIKES -

	QC Check Sample-1 Recovery (%)	QC Check Sample-2 Recovery (%)	RPD (%)	Matrix Spike Recovery (%)	Spike Duplicate Recovery (%)	RPD (%)
1,1,-Dichloroethene	110	105	5	70	84	18
Trichloroethene	110	105	5	76	94	21
Chlorobenzene	115	110	4	80	96	18
Toluene	110	105	5	72	88	20
Benzene	115	105	9	72	84	15

This batch passes method quality control acceptance criteria.

CITY OF SAN LEANDRO
NOVEMBER 16, 1989

PROJECT: ROUSE & ASSOC. /P

QUALITY ASSURANCE REPORT

EPA METHOD 508

QC BATCH NUMBER: 89-2829
DATE ANALYZED: 11-09-89

-MATRIX SPIKES-

<u>Analyte</u>	<u>Method</u> <u>Blank</u> <u>(ug/l)</u>	<u>QC CHECK</u> <u>Sample</u> <u>Recovery</u> <u>(%)</u>	<u>Sample</u> <u>Result</u> <u>(ug/l)</u>	<u>Matrix</u> <u>Spike</u> <u>Recovery</u> <u>(%)</u>	<u>Spike</u> <u>Duplicate</u> <u>Recovery</u> <u>(%)</u>	<u>RPD</u> <u>(%)</u>
Alpha-BHC	ND	147	ND	**	**	**
Beta-BHC	ND	47	ND	**	**	**
Gamma-BHC	ND	160	ND	**	**	**
Delta-BHC	ND	120	ND	**	**	**
Heptachlor	ND	193	ND	**	**	**
Aldrin	ND	147	ND	**	**	**
Heptachlor Epoxide	ND	153	ND	**	**	**
Endosulfan I	ND	160	ND	**	**	**
Dieldrin	ND	140	ND	**	**	**
DDE	ND	133	ND	**	**	**
Endrin	ND	227	ND	**	**	**
Endosulfan II	ND	153	ND	**	**	**
DDD	ND	140	ND	**	**	**
Endrin Aldehyde	ND	107	ND	**	**	**
DDT	ND	227	ND	**	**	**
Endosulfan Sulfate	ND	127	ND	**	**	**
Methoxychlor	ND	*	ND	**	**	**
Chlordane	ND	*	ND	**	**	**
Toxaphene	ND	*	ND	**	**	**

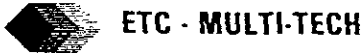
ND = None Detected

This batch passes method quality control acceptance criteria.

*These compounds were not part of the QC check sample or the matrix spiking solution.

**There was insufficient sample available to follow our standard quality control procedures.

rm



FEBRUARY 27, 1990

CLIENT: CITY OF SAN LEANDRO
3000 DAVIS STREET
SAN LEANDRO, CA 94577

ATTN: PAUL ZOLFARELLI

ANALYSIS: TTLC, HSL SEMI VOLATILES, PRIORITY POLLUTANT VOLATILES, EPA METHOD 8080: ORGANOCHLORINE
PESTICIDES AND PCB'S

QC BATCH NUMBER: 90-0120, 90-0113, 90-0145, 89-3498, 90-0079, 89-3499

PROJECT: ROUSSE & ASSOC./P

SAMPLE TYPE: LIQUID

COLLECTED BY: CLIENT

<u>SAMPLE NO.</u>	<u>SAMPLE POINT</u>	<u>SAMPLE DATE</u>	<u>DATE IN LAB</u>
MA8935	T-1-004	01-04-90	01-05-90

This report is "PROPRIETARY AND CONFIDENTIAL" and delivered to, and intended for the exclusive use of the above named client only. Environmental Testing and Certification Corp. assumes no responsibility or liability for the reliance hereon or use hereof by anyone other than the above named client.

The analyses and data interpretation that form the basis of this report were prepared under the direct supervision and control of the undersigned who is solely responsible for the contents and conclusions therein.

Reviewed and
Approved by: Thomas F. Cullen Jr.
Thomas F. Cullen Jr., Laboratory Director
ETC/Multi-Tech Laboratories, Inc.

2/28/90
Date

CITY OF SAN LEANDRO
FEBRUARY 27, 1990

PROJECT: ROUSSE & ASSOC./P

SAMPLE NUMBER: MA8935

<u>Parameter</u>	<u>EPA Prep Method</u>	<u>Prep Date</u>	<u>EPA Analysis Method</u>	<u>Analysis Date</u>
Total Antimony	*	01-15-90	200.7	01-17-90
Total Arsenic	*	01-15-90	200.7	01-13-90
Total Barium	*	01-15-90	200.7	01-17-90
Total Cadmium	*	01-15-90	200.7	01-17-90
Total Chromium	*	01-15-90	200.7	01-17-90
Total Cobalt	*	01-15-90	200.7	01-17-90
Total Copper	*	01-15-90	200.7	01-17-90
Total Lead	*	01-15-90	200.7	01-17-90
Total Mercury	*	01-18-90	245.1	01-18-90
Total Molybdenum	*	01-15-90	200.7	01-17-90
Total Nickel	*	01-15-90	200.7	01-17-90
Total Selenium	*	01-15-90	200.7	01-27-90
Total Silver	*	01-15-90	200.7	01-17-90
Total Thallium	*	01-15-90	200.7	01-25-90
Total Vanadium	*	01-15-90	200.7	01-17-90
Total Zinc	*	01-15-90	200.7	01-17-90

* The sample was prepared following the method outlined in metals, section 4.1.3 of EPA-600/4-79-020, March, 1983.

HSL SEMI VOLATILES

Date Analyzed: 01-14-90
QC Batch Number: 89-3498

PRIORITY POLLUTANT VOLATILES

Date Analyzed: 01-10-90
QC Batch Number: 90-0079

EPA METHOD 8080: ORGANOCHLORINE PESTICIDES AND PCB'S

Date Extracted: 01-11-90
Date Analyzed: 01-14-90
QC Batch Number: 89-3499

TABLE 1: QUANTITATIVE RESULTS

CAC TOTAL METALS (ZR33)

Chain of Custody Data Required for ETC Data Management Summary Reports

MA9835 CHEVRON U.S.A. INC. 600-103 4-8866 900212 0

ETC Sample No. Company Facility Sample Point Date Time Hours

Compound	Results			
	Sample Concn. mg/l	MDL mg/l	Blank Data mg/l	Batch #
Antimony, Total	ND	.01	ND	Q900120
Arsenic, Total	ND	.005	ND	Q900113
Barium, Total	.12	.01	ND	Q900120
Beryllium, Total	ND	.001	ND	Q900120
Cadmium, Total	ND	.001	ND	Q900120
Chromium, Total	ND	.005	ND	Q900120
Cobalt, Total	ND	.01	ND	Q900120
Copper, Total	.004	.001	ND	Q900120
Lead, Total	ND	.01	ND	Q900120
Mercury, Total	ND	.001	ND	Q900145
Molybdenum, Total	ND	.05	ND	Q900120
Nickel, Total	ND	.01	ND	Q900120
Selenium, Total	ND	.005	ND	Q900113
Silver, Total	ND	.005	ND	Q900120
Thallium, Total	ND	.01	ND	Q900113
Vanadium, Total	ND	.01	ND	Q900120
Zinc, Total	.015	.001	ND	Q900120

✓

TABLE 1: QUANTITATIVE RESULTS

HSL SEMI-VOLATILES - (ZR06)

Chain of Custody Data Required for ETC Data Management Summary Reports					
MA8935	CITY OF SAN LEANDRO	600-007	1-004	900104	0
ETC Sample No.	Company	Facility	Sample Point	Date	Time Hours

Compound	Results			
	Sample Concen. ug/l	MDL ug/l	Blank Data ug/l	Batch #
N-Nitrosodimethylamine	ND	20.0	ND	Q893498
Phenol	ND	20.0	ND	Q893498
bis(2-Chloroethyl) ether	ND	20.0	ND	Q893498
2-Chlorophenol	ND	20.0	ND	Q893498
1,3-Dichlorobenzene	ND	20.0	ND	Q893498
1,4-Dichlorobenzene	ND	20.0	ND	Q893498
Benzyl alcohol	ND	20.0	ND	Q893498
1,2-Dichlorobenzene	ND	20.0	ND	Q893498
2-Methylphenol	ND	20.0	ND	Q893498
bis(2-Chloroisopropyl) ether	ND	20.0	ND	Q893498
4-Methylphenol	ND	20.0	ND	Q893498
N-Nitroso-di-n-propylamine	ND	20.0	ND	Q893498
Hexachloroethane	ND	20.0	ND	Q893498
Nitrobenzene	ND	20.0	ND	Q893498
Isophorone	ND	20.0	ND	Q893498
2-Nitrophenol	ND	20.0	ND	Q893498
2,4-Dimethylphenol	ND	20.0	ND	Q893498
Benzoic acid	ND	100	ND	Q893498
bis(2-Chloroethoxy)methane	ND	20.0	ND	Q893498
2,4-Dichlorophenol	ND	20.0	ND	Q893498
1,2,4-Trichlorobenzene	ND	20.0	ND	Q893498
Naphthalene	ND	20.0	ND	Q893498
4-Chloroaniline	ND	20.0	ND	Q893498
Hexachlorobutadiene	ND	20.0	ND	Q893498
p-Chloro-m-cresol	ND	20.0	ND	Q893498
2-Methylnaphthalene	ND	20.0	ND	Q893498
Hexachlorocyclopentadiene	ND	20.0	ND	Q893498
2,4,6-Trichlorophenol	ND	20.0	ND	Q893498
2,4,5-Trichlorophenol	ND	20.0	ND	Q893498
2-Chloronaphthalene	ND	20.0	ND	Q893498
2-Nitroaniline	ND	100	ND	Q893498
Dimethyl phthalate	24.0	20.0	ND	Q893498
Acenaphthylene	ND	20.0	ND	Q893498
3-Nitroaniline	ND	100	ND	Q893498
Acenaphthene	ND	20.0	ND	Q893498
2,4-Dinitrophenol	ND	100	ND	Q893498
4-Nitrophenol	ND	100	ND	Q893498
Dibenzofuran	ND	20.0	ND	Q893498
2,4-Dinitrotoluene	ND	20.0	ND	Q893498

TABLE 1: QUANTITATIVE RESULTS

JAN 22, 1990

HSL SEMI-VOLATILES - (ZR06)

Chain of Custody Data Required for ETC Data Management Summary Reports

MA8935	CITY OF SAN LEANDRO	600-007	1-004	900104	0
ETC Sample No.	Company	Facility	Sample Point	Date	Time Hours

Compound	Results			
	Sample Concn. ug/l	MDL ug/l	Blank Data ug/l	Batch #
2,6-Dinitrotoluene	ND	20.0	ND	Q893498
Diethyl phthalate	ND	20.0	ND	Q893498
4-Chlorophenyl phenyl ether	ND	20.0	ND	Q893498
Fluorene	ND	20.0	ND	Q893498
4-Nitroaniline	ND	100	ND	Q893498
4,6-Dinitro-o-cresol	ND	100	ND	Q893498
N-Nitrosodiphenylamine	ND	20.0	ND	Q893498
4-Bromophenyl phenyl ether	ND	20.0	ND	Q893498
Hexachlorobenzene	ND	20.0	ND	Q893498
Pentachlorophenol	ND	100	ND	Q893498
Phenanthrene	ND	20.0	ND	Q893498
Anthracene	ND	20.0	ND	Q893498
Di-n-butyl phthalate	ND	20.0	ND	Q893498
Fluoranthene	ND	20.0	ND	Q893498
Pyrene	ND	20.0	ND	Q893498
Benzidine	ND	20.0	ND	Q893498
Butyl benzyl phthalate	ND	20.0	ND	Q893498
3,3'-Dichlorobenzidine	ND	40.0	ND	Q893498
Benzo(a)anthracene	ND	20.0	ND	Q893498
bis(2-Ethylhexyl)phthalate	ND	20.0	ND	Q893498
Chrysene	ND	20.0	ND	Q893498
Di-n-octyl phthalate	ND	20.0	ND	Q893498
Benzo(b)fluoranthene	ND	20.0	ND	Q893498
Benzo(k)fluoranthene	ND	20.0	ND	Q893498
Benzo(a)pyrene	ND	20.0	ND	Q893498
Indeno(1,2,3-cd)pyrene	ND	20.0	ND	Q893498
Dibenz[a,h]anthracene	ND	20.0	ND	Q893498
Benzo(ghi)perylene	ND	20.0	ND	Q893498

TABLE 2: METHOD PERFORMANCE DATA

JAN 22, 1990

SURROGATE RECOVERY

Chain of Custody Data Required for ETC Data Management Summary Reports					
MA8935	CITY OF SAN LEANDRO	600-007	1-004	900104	0
ETC Sample No.	Company	Facility	Sample Point	Date	Time Hours

Q893498

Compound	Amount added ug	% Recovery	Control Limits	
			Lower	Upper
VOLATILE FRACTION (GC/MS)				
1,2-Dichloroethane-D4	.250	104	76	114
Bromofluorobenzene	.250	107	86	115
Toluene-D8	.250	101	88	110
BASE/NEUTRAL FRACTION (GC/MS)				
Nitrobenzene-D5	50	89	35	114
2-Fluorobiphenyl	50	95	43	116
Terphenyl-D14	50	97	33	141
ACID FRACTION (GC/MS)				
Phenol-D6	100	85	10	94
2-Fluorophenol	100	79	21	100
2,4,6-Tribromophenol	100	106	10	123
PESTICIDE/PCB FRACTION (GC)				
Dibutylchloroendate	-	-	-	-
Bromochloromethane	-	-	-	-
a, a, a-Trifluorotoluene	-	-	-	-

TABLE 1: QUANTITATIVE RESULTS

JAN 11, 1990

PRIORITY POLLUTANT VOLATILES

<i>Chain of Custody Data Required for ETC Data Management Summary Reports</i>				
MA8935	CITY OF SAN LEANDRO	600-007	1-004	900104 0
<i>ETC Sample No.</i>	<i>Company</i>	<i>Facility</i>	<i>Sample Point</i>	<i>Date Time Hours</i>

Compound	Results			
	Sample Concen. ug/l	MDL ug/l	Blank Data ug/l	Batch #
Chloromethane	ND	10.0	ND	Q900079
Bromomethane	ND	10.0	ND	Q900079
Vinyl chloride	ND	10.0	ND	Q900079
Chloroethane	ND	10.0	ND	Q900079
Methylene chloride	ND	5.00	ND	Q900079
Acetone	ND	100	ND	Q900079
Carbon disulfide	ND	5.00	ND	Q900079
Trichlorofluoromethane	ND	10.0	ND	Q900079
1,1-Dichloroethene	ND	5.00	ND	Q900079
1,1-Dichloroethane	ND	5.00	ND	Q900079
trans-1,2-Dichloroethene	ND	5.00	ND	Q900079
Chloroform	ND	5.00	ND	Q900079
1,2-Dichloroethane	ND	5.00	ND	Q900079
2-Butanone	ND	10.0	ND	Q900079
1,1,1-Trichloroethane	ND	5.00	ND	Q900079
Carbon tetrachloride	ND	5.00	ND	Q900079
Vinyl acetate	ND	10.0	ND	Q900079
Bromodichloromethane	ND	5.00	ND	Q900079
1,2-Dichloropropane	ND	5.00	ND	Q900079
cis-1,3-Dichloropropene	ND	5.00	ND	Q900079
Trichloroethene	ND	5.00	ND	Q900079
Dibromochloromethane	ND	5.00	ND	Q900079
1,1,2-Trichloroethane	ND	5.00	ND	Q900079
Benzene	ND	5.00	ND	Q900079
trans-1,3-Dichloropropene	ND	5.00	ND	Q900079
2-Chloroethylvinyl ether	ND	10.0	ND	Q900079
Bromoform	ND	5.00	ND	Q900079
2-Hexanone	ND	10.0	ND	Q900079
4-Methyl-2-pentanone	ND	10.0	ND	Q900079
Tetrachloroethene	ND	5.00	ND	Q900079
1,1,2,2-Tetrachloroethane	ND	5.00	ND	Q900079
Toluene	ND	5.00	ND	Q900079
Chlorobenzene	ND	5.00	ND	Q900079
Ethylbenzene	ND	5.00	ND	Q900079
Styrene	ND	5.00	ND	Q900079
m-Xylene	ND	5.00	ND	Q900079
o+p-Xylenes	ND	5.00	ND	Q900079

TABLE 2: METHOD PERFORMANCE DATA

JAN 11, 1990

SURROGATE RECOVERY

Chain of Custody Data Required for ETC Data Management Summary Reports				
MA8935	CITY OF SAN LEANDRO	600-007	1-004	900104 0
ETC Sample No.	Company	Facility	Sample Point	Date Time Hours

Q900079

Compound	Amount added ug	% Recovery	Control Limits	
			Lower	Upper
VOLATILE FRACTION (GC/MS)				
1,2-Dichloroethane-D4	.250	104	76	114
Bromofluorobenzene	.250	107	86	115
Toluene-D8	.250	101	88	110
BASE/NEUTRAL FRACTION (GC/MS)				
Nitrobenzene-D5	-	-	-	-
2-Fluorobiphenyl	-	-	-	-
Terphenyl-D14	-	-	-	-
ACID FRACTION (GC/MS)				
Phenol-D6	-	-	-	-
2-Fluorophenol	-	-	-	-
2,4,6-Tribromophenol	-	-	-	-
PESTICIDE/PCB FRACTION (GC)				
Dibutylchloroendate	-	-	-	-
Bromochloromethane	-	-	-	-
a, a, a-Trifluorotoluene	-	-	-	-

TABLE 1: QUANTITATIVE RESULTS

EPA METHOD 8080: ORGANOCHLORINE PESTICIDES AND PCB'S (ZR45)

Chain of Custody Data Required for ETC Data Management Summary Reports

MA8935 CITY OF SAN LEANDRO 600-007 1-004 900104 0

ETC Sample No. Company Facility Sample Point Date Time Hours

Compound	Results			
	Sample Concen. ug/l	MDL ug/l	Blank Data ug/l	Batch #
Aldrin	ND	1	ND	Q893499
Alpha-BHC	ND	1	ND	Q893499
Beta-BHC	ND	1	ND	Q893499
Delta-BHC	ND	1	ND	Q893499
Gamma-BHC	ND	1	ND	Q893499
Chlordane	ND	25	ND	Q893499
4,4'-DDD	ND	1	ND	Q893499
4,4'-DDE	ND	1	ND	Q893499
4,4'-DDT	ND	1	ND	Q893499
Dieldrin	ND	1	ND	Q893499
Endosulfan I	ND	1	ND	Q893499
Endosulfan II	ND	1	ND	Q893499
Endosulfan sulfate	ND	1	ND	Q893499
Endrin	ND	1	ND	Q893499
Endrin aldehyde	ND	1	ND	Q893499
Heptachlor	ND	1	ND	Q893499
Heptachlor epoxide	ND	1	ND	Q893499
Toxaphene	ND	25	ND	Q893499
PCB-1016	ND	20	ND	Q893499
PCB-1221	ND	20	ND	Q893499
PCB-1232	ND	20	ND	Q893499
PCB-1242	ND	20	ND	Q893499
PCB-1248	ND	20	ND	Q893499
PCB-1254	ND	20	ND	Q893499
PCB-1260	ND	20	ND	Q893499

TABLE 2: METHOD PERFORMANCE DATA

FEB 26, 1990

SURROGATE RECOVERY

Chain of Custody Data Required for ETC Data Management Summary Reports					
MA8935	CITY OF SAN LEANDRO	600-007	1-004	900104	0
ETC Sample No.	Company	Facility	Sample Point	Date	Time Hours

Compound	Amount added ug	% Recovery	Control Limits	
			Lower	Upper
VOLATILE FRACTION (GC/MS)				
1,2-Dichloroethane-D4	.250	104	76	114
Bromofluorobenzene	.250	107	86	115
Toluene-D8	.250	101	88	110
BASE/NEUTRAL FRACTION (GC/MS)				
Nitrobenzene-D5	50	89	35	114
2-Fluorobiphenyl	50	95	43	116
Terphenyl-D14	50	97	33	141
ACID FRACTION (GC/MS)				
Phenol-D6	100	85	10	94
2-Fluorophenol	100	79	21	100
2,4,6-Tribromophenol	100	106	10	123
PESTICIDE/PCB FRACTION (GC)				
Dibutylchloroendate	.020	78	-	-
Bromochloromethane	-	-	-	-
a,a,a-Trifluorotoluene	-	-	-	-

MI PACIFIC ENVIRONMENTAL LABORATORY

Carter Analytical Laboratory
95 Lost Lake Lane
Campbell, CA 95008

May 23, 1990
MPELI ID: 9005066
Client PO: 10233 OSR
Log 00117
Page 1 of 6

Attention: Ms. Linda Dewi

Subject: Analysis of 1 Water and 1 Extract Sample, Received 5/11/90.

The water sample was analyzed for purgeable organic compounds according to U.S. EPA Method 624 (Federal Register, Volume 49 No. 209, Oct. 26, 1984; Page 141). Results are presented in Table 1. The method can be summarized as follows:

Helium is bubbled through an aliquot of sample contained in a specially designed purging chamber. The purgeable volatile organic compounds are efficiently transferred from the aqueous phase to the vapor phase. The vapor is swept through a sorbent column where the purgeables are trapped. After purging is completed, the trap is heated and back flushed with helium to desorb the purgeables onto a gas chromatographic column. The gas chromatograph is temperature programmed to separate the purgeables that are then detected with a mass spectrometer.

The extract sample was analyzed for semivolatile organic compounds according to U.S. EPA Method 625 (Federal Register, Volume 49 No. 209, Oct. 26, 1984; Page 153). Results are presented in Table 2. The method can be summarized as follows:


A measured volume of water is serially extracted with methylene chloride at pH >11 and again at pH <2. The resulting base/neutral and acid extracts are each concentrated to 1 mL. Just prior to injection into a Gas Chromatograph/Mass Spectrometer (GC/MS), the acid and base/neutral extracts are combined and internal standards are added. The GC/MS is equipped with a fused silica capillary column and is set up for the analysis of semivolatile priority pollutants.

Qualitative identification of the priority pollutants is performed initially using the relative retention times and the relative abundance of three unique ions. The entire mass spectrum is checked before any final identifications are recorded. Quantitative analysis is performed by the internal standard method using a single characteristic ion and response factors obtained from a daily calibration standard. In the tables, an entry such as "<5" means that the compound was not found at a level above the laboratory's reporting limit. The reporting limit, which is based on EPA reporting levels, has been corrected for any sample dilution.

Prior to analysis, every sample is spiked with surrogate compounds as part of Mid-Pacific's Quality Control Program. These compounds simulate the behavior of compounds of interest and confirm that acceptable recoveries are being achieved on every sample. The results of surrogate recoveries are reported with the sample results.

If you should have any technical questions, please contact the undersigned at (415)964-0844.

Approved by:


Daniel L. Middleton
Client Services Manager

These results were obtained by following standard laboratory procedures; the liability of Mid-Pacific Environmental Laboratory, Inc. shall not exceed the amount paid for this report. In no event shall Mid-Pacific be liable for special or consequential damages.

Table 1. Volatile Organic Results

Carter Analytical Sample ID

624 Compounds	9372-L6	Method Blank	Storage Blank	Spike	Dup Spike
	ug/L	ug/L	ug/L	% Recov	% Recov
Chloromethane	<10	<10	<10	NS	NS
Vinyl chloride	<10	<10	<10	NS	NS
Bromomethane	<10	<10	<10	NS	NS
Chloroethane	<10	<10	<10	NS	NS
Trichlorofluoromethane	<5	<5	<5	NS	NS
1,1-Dichloroethene	<5	<5	<5	88	90
Methylene chloride	<5	<5	<5	NS	NS
trans-1,2-Dichloroethene	<5	<5	<5	NS	NS
1,1-Dichloroethane	<5	<5	<5	NS	NS
Chloroform	<5	<5	<5	NS	NS
1,1,1-Trichloroethane	<5	<5	<5	NS	NS
Carbon tetrachloride	<5	<5	<5	NS	NS
Benzene	<5	<5	<5	90	94
1,2-Dichloroethane	<5	<5	<5	NS	NS
Trichloroethene	<5	<5	<5	87	90
1,2-Dichloropropane	<5	<5	<5	NS	NS
Bromodichloromethane	<5	<5	<5	NS	NS
2-Chloroethylvinylether	<10	<10	<10	NS	NS
cis-1,3-Dichloropropene	<5	<5	<5	NS	NS
Toluene	<5	<5	<5	85	86
trans-1,3-Dichloropropene	<5	<5	<5	NS	NS
1,1,2-Trichloroethane	<5	<5	<5	NS	NS
Tetrachloroethene	<5	<5	<5	NS	NS
Dibromochloromethane	<5	<5	<5	NS	NS
Chlorobenzene	<5	<5	<5	81	84
Ethylbenzene	<5	<5	<5	NS	NS
Bromoform	<5	<5	<5	NS	NS
1,1,2,2-Tetrachloroethane	<5	<5	<5	NS	NS
1,3-Dichlorobenzene	<5	<5	<5	NS	NS
1,4-Dichlorobenzene	<5	<5	<5	NS	NS
1,2-Dichlorobenzene	<5	<5	<5	NS	NS
Date Analyzed	5/14/90	5/14/90	5/14/90	5/14/90	5/14/90
Surrogates	Percent Recoveries (%)				
1,2-Dichloroethane-d4	95	96	96	93	92
Toluene-d8	93	94	95	92	89
p-Bromofluorobenzene	90	91	93	90	88

NS - Not spiked

Table 1. Volatile Organic Results

Carter Analytical Sample ID

	Method Reporting Limit
-----	-----
624 Compounds	ug/L
-----	-----
Chloromethane	10
Vinyl chloride	10
Bromomethane	10
Chloroethane	10
Trichlorofluoromethane	5
1,1-Dichloroethene	5
Methylene chloride	5
trans-1,2-Dichloroethene	5
1,1-Dichloroethane	5
Chloroform	5
1,1,1-Trichloroethane	5
Carbon tetrachloride	5
Benzene	5
1,2-Dichloroethane	5
Trichloroethene	5
1,2-Dichloropropane	5
Bromodichloromethane	5
2-Chloroethylvinylether	10
cis-1,3-Dichloropropene	5
Toluene	5
trans-1,3-Dichloropropene	5
1,1,2-Trichloroethane	5
Tetrachloroethene	5
Dibromochloromethane	5
Chlorobenzene	5
Ethylbenzene	5
Bromoform	5
1,1,2,2-Tetrachloroethane	5
1,3-Dichlorobenzene	5
1,4-Dichlorobenzene	5
1,2-Dichlorobenzene	5

Table 2. Semivolatile Organic Results

Carter Analytical Sample ID

625 Compounds	9372	Method
	WATER EXTRACT	Reporting Limit
	ug/mL	ug/mL
Phenol	<10	5
Bis(2-chloroethyl) ether	<10	5
2-Chlorophenol	<10	5
1,3-Dichlorobenzene	<10	5
1,4-Dichlorobenzene	<10	5
1,2-Dichlorobenzene	<10	5
Bis(2-chloroisopropyl) ether	<10	5
N-Nitroso-di-n-propylamine	<10	5
Hexachloroethane	<10	5
Nitrobenzene	<10	5
Isophorone	<10	5
2-Nitrophenol	<10	5
2,4-Dimethylphenol	<10	5
Bis(2-chloroethoxy) methane	<10	5
2,4-Dichlorophenol	<10	5
1,2,4-Trichlorobenzene	<10	5
Naphthalene	<10	5
Hexachlorobutadiene	<10	5
4-Chloro-3-methylphenol	<10	5
Hexachlorocyclopentadiene	<10	5
2,4,6-Trichlorophenol	<10	5
2-Chloronaphthalene	<10	5
Dimethyl phthalate	<10	5
Acenaphthylene	<10	5
Acenaphthene	<10	5
2,4-Dinitrophenol	<50	25
4-Nitrophenol	<50	25
2,4-Dinitrotoluene	<10	5
2,6-Dinitrotoluene	<10	5
Diethyl phthalate	<10	5
4-Chlorophenyl phenylether	<10	5
Fluorene	<10	5
4,6-Dinitro-2-methylphenol	<50	25
N-Nitrosodiphenylamine	14	5
4-Bromophenyl phenylether	<10	5
Hexachlorobenzene	<10	5
Pentachlorophenol	<50	25
Phenanthrene	<10	5
Anthracene	<10	5
Di-n-Butyl phthalate	<10	5

Table 2. Semivolatile Organic Results (Continued)

Carter Analytical Sample ID

	9372 WATER EXTRACT	Method Reporting Limit
625 Compounds	ug/mL	ug/mL
Fluoranthene	<10	5
Pyrene	<10	5
Butyl benzyl phthalate	<10	5
3,3'-Dichlorobenzidine	<20	10
Benzo(a)anthracene	<10	5
Bis(2-ethylhexyl)phthalate	<10	5
Chrysene	<10	5
Di-n-octyl phthalate	<10	5
Benzo(b)fluoranthene	<10	5
Benzo(k)fluoranthene	<10	5
Benzo(a)pyrene	<10	5
Indeno(1,2,3-cd)pyrene	<10	5
Dibenzo(a,h)anthracene	<10	5
Benzo(g,h,i)perylene	<10	5

Date Analyzed 5/16/90
 Date Extracted N/A*

Surrogates	Percent Recovery (%)
2-Fluorophenol	N/A*
Phenol-d5	N/A*
Nitrobenzene-d5	N/A*
2-Fluorobiphenyl	N/A*
2,4,6-Tribromophenol	N/A*
p-Terphenyl-d14	N/A*

N/A - Not applicable, sample extract was prepared by customer.

CARTER ANALYTICAL LABORATORY, INC.

95 LOST LAKE LANE • CAMPBELL, CA 95008 • (408) 866-1600

REPORT FOR Mr. John Camp P.O.#09372
City of San Leandro ORDER NO. 9372-CD DATE 05-25-90
SUBJECT Analysis of Water Samples

A set of six water samples were analyzed following EPA methods 601, 602, 608, 624 and 625 using gas chromatography (GC) and for EPA waste metals by atomic absorption (AA) spectroscopy. The samples were identified as follows.

<u>Sample</u>	<u>Customer Label</u>	<u>Description</u>
L1	Rouse (625)	water
L2	Rouse (608)	water
L3	Rouse (P.P.)	water
L4	TB (601)	water
L5	Rouse BTEX	water
L6	Rouse (624)	water

Metals Analysis

Sample L3 was analyzed for the metals listed below using AA spectroscopy. The proper operational conditions were established for each element and the spectrophotometer was calibrated with standards. The analytical results, reported in parts per million (ppm), are as follows.

<u>Metal</u>	<u>L3 (ppm)</u>	<u>Detection Limits (ppm)</u>
arsenic	< 1.0	1.0
barium	2.0	1.0
cadmium	0.03	0.01
chromium	< 0.01	0.01
copper	0.05	0.01
lead	0.2	0.1
mercury	< 1.0	1.0
nickel	0.1	0.01
thallium	< 0.1	0.1
zinc	0.02	0.01
silver	< 0.1	0.1
beryllium	< 0.1	0.01
selenium	< 1.0	1.0

REPORT APPROVED BY M. R. Pixton TITLE Laboratory Supervisor

M R Pixton

This report completes this order. If you are not completely satisfied with the results stated in this report, or the charges for services rendered, submit your detailed comments in writing to this lab within 10 days. Upon acceptance of this report, its contents and related charges, the invoice is due and payable within 30 days from the invoice date.

CARTER ANALYTICAL LABORATORY, INC.

<u>Metal</u>	<u>L3 (ppm)</u>	<u>Detection Limits (ppm)</u>
antimony	< 0.1	0.1
cobalt	0.08	0.01
molybdenum	< 0.1	0.1
vanadium	< 0.1	0.1

Only trace levels of metals were detected in sample L3.

EPA Method 608 Analysis

Sample L2 was analyzed according to EPA Method 608 for pesticides and polychlorinated biphenyls (PCBs) using an IBM model 9630 gas chromatograph. One liter of the sample was extracted with three 30 milliliter portions of dichloromethane. The extracts were combined, solvent exchanged with hexane and evaporated down to a final weight of one gram. Two microliters of the hexane extract was injected into the GC. Sample separation was accomplished on a packed column with a bonded phase of 1.5% SP-2250/1.95% SP-2401 on Supelcoport. The eluted components were detected by an electron capture detector (ECD) and the output recorded on an HP digital plotter/recorder. The results, given as parts per billion (ppb), are as follows.

<u>Compound</u>	<u>L2 (ppb)</u>	<u>Detection Limit (ppb)</u>
aldrin	< 50.	50.
dieldrin	< 50.	50.
chlordane	< 50.	50.
p,p'-DDT	< 50.	50.
p,p'-DDE	< 50.	50.
p,p'-DDD	< 50.	50.
alpha-endosulfan	< 50.	50.
beta-endosulfan	< 50.	50.
endosulfan sulfate	< 50.	50.
endrin aldehyde	< 50.	50.
heptachlor	< 50.	50.
heptachlor epoxide	< 50.	50.
alpha-BHC	< 50.	50.
endrin	< 50.	50.
beta-BHC	< 50.	50.
gamma-BHC (Lindane)	< 50.	50.
delta-BHC	< 50.	50.
arochlor 1242 (PCB)	< 50.	50.
arochlor 1254 (PCB)	< 50.	50.
arochlor 1221 (PCB)	< 50.	50.
arochlor 1232 (PCB)	< 50.	50.
arochlor 1248 (PCB)	< 50.	50.
arochlor 1260 (PCB)	< 50.	50.
arochlor 1016 (PCB)	< 50.	50.
toxaphene	< 50.	50.

Any 608 compounds present in the samples were below the detection limit.

EPA 602 Analysis

Sample L5 was analyzed for benzene, toluene, ethyl benzene and xylenes (BTEX) following EPA method 602 using an Nicolet model 9630 GC. A five milliliter portion of the sample was purged for 10 minutes at a rate of 25 ml per minute in a Tekmar liquid sample concentrator. The purged gases were trapped, concentrated, and automatically desorbed into the GC. Separation was achieved on a packed column of 5% SP-1200/1.75% Bentone-34 on Supelcoport. The eluted components were detected by a photo ionization detector (PID) followed by a flame ionization detector (FID). The results of this analysis are reported in parts per billion (ppb) as follows.

<u>Compound</u>	<u>L5 (ppb)</u>	<u>Detection Limit (ppb)</u>
benzene	< 50	50
toluene	< 50	50
ethyl benzene	< 50	50
xylene	< 50	50

Any benzene, toluene, ethyl benzene or xylenes present in the sample were below the detection limit.

EPA Method 601 Analysis

Sample L4 was analyzed for volatile halogenated organic compounds according to EPA method 601 using an HP model 5890 GC. Five milliliters of the sample was purged for 11 minutes at a rate of 40 ml per minute in a Tekmar liquid sample concentrator. The purged gases were trapped, concentrated, and automatically desorbed into the GC. Separation of the various sample components was accomplished on a packed column with a bonded phase of 1% SP-1000 on 60/80 Carbopack B. The eluted components were detected by a Hall electrolytic conductivity detector (ElCD) and the output recorded on an HP digital plotter/recorder. The results, given as parts per billion (ppb) are as follows.

<u>Compound</u>	<u>L4 (ppm)</u>	<u>Detection Limit (ppm)</u>
benzyl chloride	< 0.005	0.005
bis(2-chloroethoxy)methane	< 0.1	0.1
bis(2-chloroisopropyl)ether	< 0.1	0.1
bromobenzene	< 0.01	0.01
bromodichloromethane	< 0.005	0.005
bromoform	< 0.01	0.01

<u>Compound</u>	<u>L4 (ppm)</u>	<u>Detection Limit (ppm)</u>
bromomethane	< 5.	5.
carbon tetrachloride	< 0.005	0.005
chloroacetaldehyde	< 2.	2.
chlorobenzene	< 0.005	0.005
chloroethane	< 5.	5.
2-chloroethylvinyl ether	< 0.1	0.1
chloroform	< 0.005	0.005
1-chlorohexane	< 0.005	0.005
chloromethane	< 5.	5.
chloromethyl methyl ether	< 5.	5.
2-chlorotoluene	< 0.005	0.005
3-chlorotoluene	< 0.005	0.005
4-chlorotoluene	< 0.005	0.005
dibromochloromethane	< 0.005	0.005
dibromomethane	< 0.005	0.005
1,2-dichlorobenzene	< 0.01	0.01
1,3-dichlorobenzene	< 0.01	0.01
1,4-dichlorobenzene	< 0.01	0.01
dichlorodifluoromethane	< 5.	5.
1,1-dichloroethane	< 0.005	0.005
1,2-dichloroethane	< 0.005	0.005
1,1-dichloroethene	< 0.005	0.005
trans-1,2-dichloroethene	< 0.005	0.005
dichloromethane	< 2.000	2.000
1,2-dichloropropane	< 0.005	0.005
trans-1,3-dichloropropene	< 5.	5.
1,1,1,2-tetrachloroethane	< 0.005	0.005
1,1,2,2-tetrachloroethane	< 0.005	0.005
tetrachloroethene	< 0.005	0.005
1,1,1-trichloroethane	< 0.005	0.005
1,1,2-trichloroethane	< 0.005	0.005
trichloroethene	< 0.005	0.005
trichlorofluoromethane	< 5.	5.
1,2,3-trichloropropane	< 0.005	0.005
vinyl chloride	< 5.	5.

Any 601 compounds present in sample L4 are below the detection limit.

EPA 624 and 625 analysis

The results the EPA methods 624 and 625 analyses are enclosed with this report.

Conclusion

Any EPA methods 601, 602, 608 or 624 compounds that are present in the samples are below the detection limits. Low levels of N-nitrosodiphenylamine were detected in the EPA method 625 analysis of sample L6.

Samples submitted for analyses must be collected within a two week period following the completion of the analyses. Any samples remaining after the designated period of time will be discarded.

Should you have any questions please call. We look forward to serving you again in the near future.

Table 1. Pesticide & PCB Results

City Of San Leandro Sample ID				
<i>ROUSE & ASSOC.</i>				
11-29-90				
	ROUSE/φ #1-040	Method Blank	Spike	Dup Spike
608 Compounds	ug/L	ug/L	% Recov	% Recov
alpha-BHC	<0.05	<0.05	NS	NS
beta-BHC	<0.05	<0.05	NS	NS
gamma-BHC	<0.05	<0.05	100	98
delta- BHC	<0.05	<0.05	NS	NS
Heptachlor	<0.05	<0.05	121	119
Aldrin	<0.05	<0.05	85	83
Heptachlor epoxide	<0.05	<0.05	NS	NS
Endosulfan I	<0.05	<0.05	NS	NS
Dieldrin	<0.10	<0.10	117	112
4,4'-DDE	<0.10	<0.10	NS	NS
Endrin	<0.10	<0.10	103	105
Endosulfan II	<0.10	<0.10	NS	NS
4,4'-DDD	<0.10	<0.10	NS	NS
Endosulfan Sulfate	<0.10	<0.10	NS	NS
4,4'-DDT	<0.10	<0.10	147	147
Endrin aldehyde	<0.10	<0.10	NS	NS
Endrin ketone	<0.10	<0.10	NS	NS
Methoxychlor	<0.50	<0.50	NS	NS
Chlordane	<0.50	<0.50	NS	NS
Toxaphene	<1.00	<1.00	NS	NS
Aroclor-1016	<0.50	<0.50	NS	NS
Aroclor-1221	<0.50	<0.50	NS	NS
Aroclor-1232	<0.50	<0.50	NS	NS
Aroclor-1242	<0.50	<0.50	NS	NS
Aroclor-1248	<0.50	<0.50	NS	NS
Aroclor-1254	<1.00	<1.00	NS	NS
Aroclor-1260	<1.00	<1.00	NS	NS
Date Extracted	12/04/90	12/04/90	12/04/90	12/04/90
Date Analyzed	12/13/90	12/13/90	12/13/90	12/13/90
Surrogate	Percent Recoveries (%)			
Decachlorobiphenyl	61	47	49	74
Tetrachloro-m-xylene	193	100	106	104

NS - Not spiked

Table 2. Volatile Organic Results

City of San Leandro Sample ID

	ROUSE/C #11-040	TRIP BLANK	Storage Blank	Spike	Dup Spike
624 Compounds	ug/L	ug/L	ug/L	% Recov	% Recov
Chloromethane	<3	<3	<3	NS	NS
Vinyl chloride	<3	<3	<3	NS	NS
Bromomethane	<2	<2	<2	NS	NS
Chloroethane	<2	<2	<2	NS	NS
Trichlorofluoromethane	<3	<3	<3	NS	NS
1,1-Dichloroethene	<3	<3	<3	110	108
Methylene chloride	<2	<2	<2	NS	NS
trans-1,2-Dichloroethene	<2	<2	<2	NS	NS
1,1-Dichloroethane	<3	<3	<3	NS	NS
Chloroform	<2	19	<2	NS	NS
1,1,1-Trichloroethane	<3	<3	<3	NS	NS
Carbon tetrachloride	<3	<3	<3	NS	NS
Benzene	4	<2	<2	120	117
1,2-Dichloroethane	<2	<2	<2	NS	NS
Trichloroethene	<2	<2	<2	102	101
1,2-Dichloropropane	<3	<3	<3	NS	NS
Bromodichloromethane	<3	<3	<3	NS	NS
2-Chloroethylvinylether	<5	<5	<5	NS	NS
cis-1,3-Dichloropropene	<3	<3	<3	NS	NS
Toluene	<2	<2	<2	103	102
trans-1,3-Dichloropropene	<2	<2	<2	NS	NS
1,1,2-Trichloroethane	<2	<2	<2	NS	NS
Tetrachloroethene	<2	<2	<2	NS	NS
Dibromochloromethane	<2	<2	<2	NS	NS
Chlorobenzene	<2	<2	<2	110	107
Ethylbenzene	<2	<2	<2	NS	NS
Bromoform	<2	<2	<2	NS	NS
1,1,2,2-Tetrachloroethane	<3	<3	<3	NS	NS
1,3-Dichlorobenzene	<2	<2	<2	NS	NS
1,4-Dichlorobenzene	<2	<2	<2	NS	NS
1,2-Dichlorobenzene	<2	<2	<2	NS	NS
Date Analyzed	12/3/90	12/3/90	12/3/90	12/3/90	12/3/90
Surrogates	Percent Recoveries (%)				
1,2-Dichloroethane-d4	118	113	95	110	108
Toluene-d8	100	100	81	91	92
p-Bromofluorobenzene	128	101	92	105	110

NS - Not spiked

Table 3. Semivolatile Organic Results

City of San Leandro Sample ID

625 Compounds	ROUSE/C	Method	Spike	Dup
	11-040	Blank		Spike
	ug/L	ug/L	% Recov	% Recov
Phenol	<10	<10	10	14
Bis(2-chloroethyl) ether	<10	<10	NS	NS
2-Chlorophenol	<10	<10	42	44
1,3-Dichlorobenzene	<10	<10	NS	NS
1,4-Dichlorobenzene	<10	<10	39	39
1,2-Dichlorobenzene	<10	<10	NS	NS
Bis(2-chloroisopropyl) ether	<10	<10	NS	NS
N-Nitroso-di-n-propylamine	<10	<10	56	56
Hexachloroethane	<10	<10	NS	NS
Nitrobenzene	<10	<10	NS	NS
Isophorone	<10	<10	NS	NS
2-Nitrophenol	<10	<10	NS	NS
2,4-Dimethylphenol	<10	<10	NS	NS
Bis(2-chloroethoxy) methane	<10	<10	NS	NS
2,4-Dichlorophenol	<10	<10	NS	NS
1,2,4-Trichlorobenzene	<10	<10	74	71
Naphthalene	<10	<10	NS	NS
Hexachlorobutadiene	<10	<10	NS	NS
4-Chloro-3-methylphenol	<10	<10	78	86
Hexachlorocyclopentadiene	<10	<10	NS	NS
2,4,6-Trichlorophenol	<10	<10	NS	NS
2-Chloronaphthalene	<10	<10	NS	NS
Dimethyl phthalate	<10	<10	NS	NS
Acenaphthylene	<10	<10	NS	NS
Acenaphthene	<10	<10	68	70
2,4-Dinitrophenol	<50	<50	NS	NS
4-Nitrophenol	<50	<50	88	109
2,4-Dinitrotoluene	<10	<10	78	84
2,6-Dinitrotoluene	27	<10	NS	NS
Diethyl phthalate	<10	<10	NS	NS
4-Chlorophenyl phenylether	<10	<10	NS	NS
Fluorene	<10	<10	NS	NS
4,6-Dinitro-2-methylphenol	<50	<50	NS	NS
N-Nitrosodiphenylamine	<10	<10	NS	NS
4-Bromophenyl phenylether	<10	<10	NS	NS
Hexachlorobenzene	<10	<10	NS	NS
Pentachlorophenol	<50	<50	75	88
Phenanthrene	<10	<10	NS	NS
Anthracene	<10	<10	NS	NS
Di-n-Butyl phthalate	<10	<10	NS	NS

NS - Not spiked

Table 3. Semivolatile Organic Results (Continued)

City of San Leandro Sample ID

	ROUSE/C 11-040	Method Blank	Spike	Dup Spike
625 Compounds	ug/L	ug/L	% Recov	% Recov
Fluoranthene	<10	<10	NS	NS
Pyrene	<10	<10	86	82
Butyl benzyl phthalate	<10	<10	NS	NS
3,3'-Dichlorobenzidine	<20	<20	NS	NS
Benzo(a)anthracene	<10	<10	NS	NS
Bis(2-ethylhexyl)phthalate	<10	<10	NS	NS
Chrysene	<10	<10	NS	NS
Di-n-octyl phthalate	<10	<10	NS	NS
Benzo(b)fluoranthene	<10	<10	NS	NS
Benzo(k)fluoranthene	<10	<10	NS	NS
Benzo(a)pyrene	<10	<10	NS	NS
Indeno(1,2,3-cd)pyrene	<10	<10	NS	NS
Dibenzo(a,h)anthracene	<10	<10	NS	NS
Benzo(g,h,i)perylene	<10	<10	NS	NS

Date Analyzed 12/14/90 12/14/90 12/14/90 12/14/90
 Date Extracted 12/12/90 12/12/90 12/12/90 12/12/90

Surrogates	Percent Recovery (%)			
2-Fluorophenol	47	74	44	45
Phenol-d5	86	76	53	55
Nitrobenzene-d5	91	80	76	74
2-Fluorobiphenyl	93	78	76	73
2,4,6-Tribromophenol	69	96	74	82
p-Terphenyl-d14	98	102	81	67

NS - Not spiked

Table 4B. Metals Results

City of San Leandro Sample ID

Parameter	EPA Method	ROUSE/C	Spike	Dup	Method	Method
		#11-040	% Recov	Spike	Blank	Detection
		mg/L		RPD	mg/L	Limit
						mg/L
Antimony	200.7	<0.05	88	10	<0.05	0.05
Arsenic	206.2	<0.005	81	0.28	<0.005	0.005
Beryllium	200.7	<0.005	97	0.1	<0.005	0.005
Cadmium	200.7	0.015	82	4.4	<0.005	0.005
Chromium	200.7	<0.01	98	1.2	<0.01	0.01
Copper	200.7	<0.01	92	1.5	<0.01	0.01
Lead	239.2	0.001	97	0	<0.001	0.001
Mercury	245.1	0.001	98	0	<0.0002	0.0002
Nickel	200.7	<0.02	104	1.2	<0.02	0.02
Selenium	270.2	<0.005	40	0	<0.005	0.005
Silver	200.7	<0.01	86	0.7	<0.01	0.01
Thallium	279.2	<0.005	41	9.0	<0.005	0.005
Zinc	200.7	0.18	98	1.2	<0.01	0.01

Table 1. Pesticide & PCB Results

City of San Leandro Sample ID
Rouse & Associates
1/10/91, Grab

pH=7.1

	ROS/P 1-013	Method Blank	Spike	Dup Spike
608 Compounds	ug/L	LIMIT (ppb)	ug/L	% Recov
alpha-BHC	0.09	0.70	<0.05	NS
beta-BHC	<0.05		<0.05	NS
gamma-BHC	<0.05		<0.05	101
delta-BHC	<0.05		<0.05	NS
Heptachlor	<0.05		<0.05	114
Aldrin	→ 0.13	0.05	<0.05	108
Heptachlor epoxide	→ 0.15	0.01	<0.05	NS
Endosulfan I	<0.05		<0.05	NS
Dieldrin	<0.10		<0.10	111
4,4'-DDE	<0.10		<0.10	NS
Endrin	0.14		<0.10	113
Endosulfan II	<0.10		<0.10	NS
4,4'-DDD	0.16		<0.10	NS
Endosulfan Sulfate	<0.10		<0.10	NS
4,4'-DDT	<0.10		<0.10	106
Endrin aldehyde	<0.10		<0.10	NS
Endrin ketone	<0.10		<0.10	NS
Methoxychlor	<0.50		<0.50	NS
Chlordane	<0.50		<0.50	NS
Toxaphene	<1.00		<1.00	NS
Aroclor-1016	<0.50		<0.50	NS
Aroclor-1221	<0.50		<0.50	NS
Aroclor-1232	<0.50		<0.50	NS
Aroclor-1242	<0.50		<0.50	NS
Aroclor-1248	<0.50		<0.50	NS
Aroclor-1254	<1.00		<1.00	NS
Aroclor-1260	<1.00		<1.00	NS
Date Extracted	1/15/91	1/15/91	1/15/91	1/15/91
Date Analyzed	2/1/91	1/25/91	1/25/91	1/25/91
Surrogate	Percent Recoveries (%)			
Decachlorobiphenyl	77	114	111	115
Tetrachloro-m-xylene	98	116	118	119

NS - Not spiked

0.13
0.15
0.14
0.16
2
0.60

Table 2. Volatile Organic Results

City of San Leandro Sample ID

624 Compounds	ROS/P	Method	Spike	Dup Spike
	1-013	Blank		
	ug/L	^{LIMITS} (ppb) ug/L	% Recov	% Recov
Chloromethane	<3	<3	NS	NS
Vinyl chloride	<3	<3	NS	NS
Bromomethane	<2	<2	NS	NS
Chloroethane	<2	<2	NS	NS
Trichlorofluoromethane	<3	<3	NS	NS
1,1-Dichloroethene	<3	<3	103	99
Methylene chloride	<2	<2	NS	NS
trans-1,2-Dichloroethene	<2	<2	NS	NS
1,1-Dichloroethane	<3	<3	NS	NS
Chloroform	<2	<2	NS	NS
1,1,1-Trichloroethane	<3	<3	NS	NS
Carbon tetrachloride	<3	<3	NS	NS
Benzene	→ 2	1.0	103	102
1,2-Dichloroethane	<2	<2	NS	NS
Trichloroethene	<2	<2	95	96
1,2-Dichloropropane	<3	<3	NS	NS
Bromodichloromethane	<3	<3	NS	NS
2-Chloroethylvinylether	<5	<5	NS	NS
cis-1,3-Dichloropropene	<3	<3	NS	NS
Toluene	<2	<2	106	103
trans-1,3-Dichloropropene	<2	<2	NS	NS
1,1,2-Trichloroethane	<2	<2	NS	NS
Tetrachloroethene	<2	<2	NS	NS
Dibromochloromethane	<2	<2	NS	NS
Chlorobenzene	<2	<2	103	101
Ethylbenzene	<2	<2	NS	NS
Bromoform	<2	<2	NS	NS
1,1,2,2-Tetrachloroethane	<3	<3	NS	NS
1,3-Dichlorobenzene	<2	<2	NS	NS
1,4-Dichlorobenzene	<2	<2	NS	NS
1,2-Dichlorobenzene	<2	<2	NS	NS
Date Analyzed	1/14/91	1/14/91	1/14/91	1/14/91
Surrogates	Percent Recoveries (%)			
1,2-Dichloroethane-d4	104	101	99	98
Toluene-d8	104	101	99	97
p-Bromofluorobenzene	96	96	86	87

NS - Not spiked

Table 3. Semivolatile Organic Results

City of San Leandro Sample ID

	ROS/P 1-013	Method Blank	Method Spike	Spike	Dup Spike
625 Compounds	ug/L	ug/L	% Recov	% Recov	% Recov
Phenol	<50	<10	67	36	19
Bis(2-chloroethyl) ether	<50	<10	NS	NS	NS
2-Chlorophenol	<50	<10	73	20	11
1,3-Dichlorobenzene	<50	<10	NS	NS	NS
1,4-Dichlorobenzene	<50	<10	64	61	46
1,2-Dichlorobenzene	<50	<10	NS	NS	NS
Bis(2-chloroisopropyl) ether	<50	<10	NS	NS	NS
N-Nitroso-di-n-propylamine	<50	<10	72	71	51
Hexachloroethane	<50	<10	NS	NS	NS
Nitrobenzene	<50	<10	NS	NS	NS
Isophorone	<50	<10	NS	NS	NS
2-Nitrophenol	<50	<10	NS	NS	NS
2,4-Dimethylphenol	<50	<10	NS	NS	NS
Bis(2-chloroethoxy) methane	<50	<10	NS	NS	NS
2,4-Dichlorophenol	<50	<10	NS	NS	NS
1,2,4-Trichlorobenzene	<50	<10	66	65	47
Naphthalene	<50	<10	NS	NS	NS
Hexachlorobutadiene	<50	<10	NS	NS	NS
4-Chloro-3-methylphenol	<50	<10	72	69	50
Hexachlorocyclopentadiene	<50	<10	NS	NS	NS
2,4,6-Trichlorophenol	<50	<10	NS	NS	NS
2-Chloronaphthalene	<50	<10	NS	NS	NS
Dimethyl phthalate	<50	<10	NS	NS	NS
Acenaphthylene	<50	<10	NS	NS	NS
Acenaphthene	<50	<10	69	68	51
2,4-Dinitrophenol	<250	<50	NS	NS	NS
4-Nitrophenol	<250	<50	105	63	81
2,4-Dinitrotoluene	<50	<10	88	76	65
2,6-Dinitrotoluene	<50	<10	NS	NS	NS
Diethyl phthalate	<50	<10	NS	NS	NS
4-Chlorophenyl phenylether	<50	<10	NS	NS	NS
Fluorene	<50	<10	NS	NS	NS
4,6-Dinitro-2-methylphenol	<250	<50	NS	NS	NS
N-Nitrosodiphenylamine	<50	<10	NS	NS	NS
4-Bromophenyl phenylether	<50	<10	NS	NS	NS
Hexachlorobenzene	<50	<10	NS	NS	NS
Pentachlorophenol	<250	<50	93	3	8
Phenanthrene	<50	<10	NS	NS	NS
Anthracene	<50	<10	NS	NS	NS
Di-n-Butyl phthalate	<50	<10	NS	NS	NS

NS - Not spiked

Table 3. Semivolatile Organic Results (Continued)

City of San Leandro Sample ID

	ROS/P 1-013	Method Blank	Method Spike	Spike	Dup Spike
625 Compounds	ug/L	ug/L	% Recov	% Recov	% Recov
Fluoranthene	<50	<10	NS	NS	NS
Pyrene	<50	<10	78	69	57
Butyl benzyl phthalate	<50	<10	NS	NS	NS
3,3'-Dichlorobenzidine	<100	<20	NS	NS	NS
Benzo(a)anthracene	<50	<10	NS	NS	NS
Bis(2-ethylhexyl)phthalate	<50	<10	NS	NS	NS
Chrysene	<50	<10	NS	NS	NS
Di-n-octyl phthalate	<50	<10	NS	NS	NS
Benzo(b)fluoranthene	<50	<10	NS	NS	NS
Benzo(k)fluoranthene	<50	<10	NS	NS	NS
Benzo(a)pyrene	<50	<10	NS	NS	NS
Indeno(1,2,3-cd)pyrene	<50	<10	NS	NS	NS
Dibenzo(a,h)anthracene	<50	<10	NS	NS	NS
Benzo(g,h,i)perylene	<50	<10	NS	NS	NS
Date Analyzed	1/23/91	1/18/91	1/21/91	1/18/91	1/18/91
Date Extracted	1/14/91	1/14/91	1/14/91	1/14/91	1/14/91
Surrogates	Percent Recovery (%)				
2-Fluorophenol	5	67	79	6	3
Phenol-d5	37	73	83	45	24
Nitrobenzene-d5	67	72	70	77	56
2-Fluorobiphenyl	76	67	76	74	53
2,4,6-Tribromophenol	12	79	113	13	7
p-Terphenyl-d14	94	85	92	82	74

NS - Not spiked

Table 4D. Metals Results

City of San Leandro Sample ID

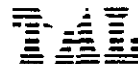
Parameter	EPA Method	ROS/P	Spike	Dup	Method	Method
		1-013	% Recov	Spike	Blank	Detection
		mg/L		RPD	mg/L	Limit
						mg/L
Antimony	200.7	<0.05	99	25	<0.05	0.05
Arsenic	206.2	<0.005	72	0.8	<0.005	0.005
Beryllium	200.7	<0.005	95	0.21	<0.005	0.005
Cadmium	200.7	<0.005	114	2.4	<0.005	0.005
Chromium	200.7	<0.01	85	1.7	<0.01	0.01
Copper	200.7	<0.01	94	22	<0.01	0.01
Lead	239.2	0.0034	76	2.4	<0.001	0.001
Mercury	245.1	<0.0002	95	0	<0.0002	0.0002
Nickel	200.7	<0.02	94	0.28	<0.02	0.02
Selenium	270.2	<0.005	96	19	<0.005	0.005
Silver	200.7	<0.01	88	0.9	<0.01	0.01
Thallium	279.2	<0.005	57	13	<0.005	0.005
Zinc	200.7	<0.01	94	1.3	<0.01	0.01

LOG NO.: 1205
 DATE SAMPLED: 8/08/91
 DATE RECEIVED: 8/09/91
 DATE EXTRACTED: 8/13/91
 DATE ANALYZED: 8/13/91
 DATE REPORTED: 8/23/91
 PAGE: Five

Sample Type: Water

Method and Constituent:	Units	R&A/V 8-010		Method Blank	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit
EPA Method 608:					
Aldrin	ug/l	ND	0.10	ND	0.10
Alpha-BHC	ug/l	ND	0.10	ND	0.10
Beta-BHC	ug/l	ND	0.10	ND	0.10
Delta-BHC	ug/l	ND	0.10	ND	0.10
Gamma-BHC (Lindane)	ug/l	ND	0.10	ND	0.10
Chlordane	ug/l	ND	0.10	ND	0.10
4,4'-DDD	ug/l	ND	0.10	ND	0.10
4,4'-DDE	ug/l	ND	0.10	ND	0.10
4,4'-DDT	ug/l	ND	0.10	ND	0.10
Dieldrin	ug/l	ND	0.10	ND	0.10
Endosulfan I	ug/l	ND	0.10	ND	0.10
Endosulfan II	ug/l	ND	0.10	ND	0.10
Endosulfan Sulfate	ug/l	ND	0.10	ND	0.10
Endrin	ug/l	ND	0.10	ND	0.10
Endrin Aldehyde	ug/l	ND	0.10	ND	0.10
Heptachlor	ug/l	ND	0.10	ND	0.10
Heptachlor Epoxide	ug/l	ND	0.10	ND	0.10
Methoxychlor	ug/l	ND	0.10	ND	0.10
Toxaphene	ug/l	ND	0.10	ND	0.10

Concentrations reported as ND were not detected at or above the reporting limit.



LOG NO.: 1205
DATE SAMPLED: 8/08/91
DATE RECEIVED: 8/09/91
DATE EXTRACTED: 8/13/91
DATE ANALYZED: 8/13/91
DATE REPORTED: 8/23/91
PAGE: Six

Sample Type: Water

<u>Method and Constituent:</u>	<u>Units</u>	<u>R&A/V 8-010</u>		<u>Method Blank</u>	
		<u>Concen- tration</u>	<u>Reporting Limit</u>	<u>Concen- tration</u>	<u>Reporting Limit</u>
EPA Method 608 (Continued):					
Aroclor 1016	ug/l	ND	0.10	ND	0.10
Aroclor 1221	ug/l	ND	0.10	ND	0.10
Aroclor 1232	ug/l	ND	0.10	ND	0.10
Aroclor 1242	ug/l	ND	0.10	ND	0.10
Aroclor 1248	ug/l	ND	0.10	ND	0.10
Aroclor 1254	ug/l	ND	0.10	ND	0.10
Aroclor 1260	ug/l	ND	0.10	ND	0.10

QC Summary:

% Recovery: 110
% RPD: 9.1

Concentrations reported as ND were not detected at or above the reporting limit.

LOG NO.: 1205
 DATE SAMPLED: 8/08/91
 DATE RECEIVED: 8/09/91
 DATE ANALYZED: 8/13/91 and 8/14/91
 DATE REPORTED: 8/23/91
 PAGE: Seven

Sample Type: Water

Method and Constituent:	Units	R&A/V 8-010		Method Blank	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit
EPA Method 624:					
Chloromethane	ug/l	ND	2.0	ND	2.0
Bromomethane	ug/l	ND	2.0	ND	2.0
Vinyl Chloride	ug/l	ND	2.0	ND	2.0
Chloroethane	ug/l	ND	2.0	ND	2.0
Methylene Chloride	ug/l	ND	1.0	ND	1.0
Trichlorofluoromethane	ug/l	ND	1.0	ND	1.0
1,1-Dichloroethene	ug/l	ND	1.0	ND	1.0
1,1-Dichloroethane	ug/l	ND	1.0	ND	1.0
Trans-1,2-Dichloroethene	ug/l	ND	1.0	ND	1.0
Chloroform	ug/l	ND	1.0	ND	1.0
1,2-Dichloroethane	ug/l	ND	1.0	ND	1.0
1,1,1-Trichloroethane	ug/l	ND	1.0	ND	1.0
Carbon Tetrachloride	ug/l	ND	1.0	ND	1.0
Bromodichloromethane	ug/l	ND	2.0	ND	2.0
1,2-Dichloropropane	ug/l	ND	4.0	ND	4.0
Trans-1,3-Dichloropropene	ug/l	ND	4.0	ND	4.0
1,1,2-Trichloroethane	ug/l	ND	4.0	ND	4.0
Trichloroethene	ug/l	ND	1.0	ND	1.0
Benzene	ug/l	ND	1.0	ND	1.0

Concentrations reported as ND were not detected at or above reporting limit.



LOG NO.: 1205
 DATE SAMPLED: 8/08/91
 DATE RECEIVED: 8/09/91
 DATE ANALYZED: 8/13/91 and 8/14/91
 DATE REPORTED: 8/23/91
 PAGE: Eight

Sample Type: Water

<u>Method and Constituent</u>	<u>Units</u>	<u>R&A/V 8-010</u>		<u>Method Blank</u>	
		<u>Concen- tration</u>	<u>Reporting Limit</u>	<u>Concen- tration</u>	<u>Reporting Limit</u>
EPA Method 624 (Continued):					
2-Chloroethylvinyl Ether	ug/l	ND	8.0	ND	8.0
Dibromochloromethane	ug/l	ND	4.0	ND	4.0
Cis-1,3-Dichloropropene	ug/l	ND	8.0	ND	8.0
Bromoform	ug/l	ND	4.0	ND	4.0
1,1,2,2-Tetrachloroethane	ug/l	ND	4.0	ND	4.0
Tetrachloroethene	ug/l	ND	1.0	ND	1.0
Toluene	ug/l	ND	1.0	ND	1.0
Chlorobenzene	ug/l	ND	1.0	ND	1.0
Ethylbenzene	ug/l	ND	1.0	ND	1.0
1,3-Dichlorobenzene	ug/l	ND	4.0	ND	4.0
1,2-Dichlorobenzene	ug/l	ND	4.0	ND	4.0
1,4-Dichlorobenzene	ug/l	ND	4.0	ND	4.0

Surrogate % Recovery

Bomochloromethane	96	90
1-Chloro,2-Bromopropane	96	100
1,4-Dichlorobutane	89	97

Concentrations reported as ND were not detected at or above the reporting limit.

LOG NUMBER: 1248
 DATE SAMPLED: 8/23/91
 DATE RECEIVED: 8/23/91
 DATE EXTRACTED: 8/27/91
 DATE ANALYZED: 9/03/91
 DATE REPORTED: 9/06/91
 PAGE: Twenty Two

Sample Type: Water

Method and Constituent:	Units	R&A/P #8-037		Method Blank	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit
EPA Method 608:					
Aldrin	ug/l	ND	0.10	ND	0.10
Alpha-BHC	ug/l	ND	0.10	ND	0.10
Beta-BHC	ug/l	ND	0.10	ND	0.10
Delta-BHC	ug/l	ND	0.10	ND	0.10
Gamma-BHC (Lindane)	ug/l	ND	0.10	ND	0.10
Chlordane	ug/l	ND	0.10	ND	0.10
4,4'-DDD	ug/l	ND	0.10	ND	0.10
4,4'-DDE	ug/l	ND	0.10	ND	0.10
4,4'-DDT	ug/l	ND	0.10	ND	0.10
Dieldrin	ug/l	ND	0.10	ND	0.10
Endosulfan I	ug/l	ND	0.10	ND	0.10
Endosulfan II	ug/l	ND	0.10	ND	0.10
Endosulfan Sulfate	ug/l	ND	0.10	ND	0.10
Endrin	ug/l	ND	0.10	ND	0.10
Endrin Aldehyde	ug/l	ND	0.10	ND	0.10
Heptachlor	ug/l	ND	0.10	ND	0.10
Heptachlor Epoxide	ug/l	ND	0.10	ND	0.10
Methoxychlor	ug/l	ND	0.10	ND	0.10
Toxaphene	ug/l	ND	0.10	ND	0.10

Concentrations reported as ND were not detected at or above the reporting limit.

LOG NUMBER: 1248
 DATE SAMPLED: 8/23/91
 DATE RECEIVED: 8/23/91
 DATE EXTRACTED: 8/27/91
 DATE ANALYZED: 9/03/91
 DATE REPORTED: 9/06/91
 PAGE: Twenty Three

Sample Type: Water

Method and Constituent:	Units	R&A/P #8-037		Method Blank	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit
EPA Method 608 (Continued):					
Aroclor 1016	ug/l	ND	0.10	ND	0.10
Aroclor 1221	ug/l	ND	0.10	ND	0.10
Aroclor 1232	ug/l	ND	0.10	ND	0.10
Aroclor 1242	ug/l	ND	0.10	ND	0.10
Aroclor 1248	ug/l	ND	0.10	ND	0.10
Aroclor 1254	ug/l	ND	0.10	ND	0.10
Aroclor 1260	ug/l	ND	0.10	ND	0.10

QC Summary:

% Recovery: 110
 % RPD: 13

Concentrations reported as ND were not detected at or above the reporting limit.

LOG NUMBER: 1248
 DATE SAMPLED: 8/23/91
 DATE RECEIVED: 8/23/91
 DATE ANALYZED: 8/31/91
 DATE REPORTED: 9/06/91
 PAGE: Twenty Four

Sample Type: Water

Method and Constituent:	Units	R&A/P #8-037		Method Blank	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit
EPA Method 624:					
Chloromethane	ug/l	ND	2.0	ND	2.0
Bromomethane	ug/l	ND	2.0	ND	2.0
Vinyl Chloride	ug/l	ND	2.0	ND	2.0
Chloroethane	ug/l	ND	2.0	ND	2.0
Methylene Chloride	ug/l	ND	1.0	ND	1.0
Trichlorofluoromethane	ug/l	ND	1.0	ND	1.0
1,1-Dichloroethene	ug/l	ND	1.0	ND	1.0
1,1-Dichloroethane	ug/l	ND	1.0	ND	1.0
Trans-1,2-Dichloroethene	ug/l	ND	1.0	ND	1.0
Chloroform	ug/l	ND	1.0	ND	1.0
1,2-Dichloroethane	ug/l	ND	1.0	ND	1.0
1,1,1-Trichloroethane	ug/l	ND	1.0	ND	1.0
Carbon Tetrachloride	ug/l	ND	1.0	ND	1.0
Bromodichloromethane	ug/l	ND	2.0	ND	2.0
1,2-Dichloropropane	ug/l	ND	4.0	ND	4.0
Trans-1,3-Dichloropropene	ug/l	ND	4.0	ND	4.0
1,1,2-Trichloroethane	ug/l	ND	4.0	ND	4.0
Trichloroethene	ug/l	ND	1.0	ND	1.0
Benzene	ug/l	ND	1.0	ND	1.0

Concentrations reported as ND were not detected at or above the reporting limit.

LOG NUMBER: 1248
 DATE SAMPLED: 8/23/91
 DATE RECEIVED: 8/23/91
 DATE ANALYZED: 8/31/91
 DATE REPORTED: 9/06/91
 PAGE: Twenty Five

Sample Type: Water

<u>Method and Constituent</u>	<u>Units</u>	<u>R&A/P #8-037</u>		<u>Method Blank</u>	
		<u>Concentration</u>	<u>Reporting Limit</u>	<u>Concentration</u>	<u>Reporting Limit</u>
EPA Method 624 (Continued):					
2-Chloroethylvinyl Ether	ug/l	ND	8.0	ND	8.0
Dibromochloromethane	ug/l	ND	4.0	ND	4.0
Cis-1,3-Dichloropropene	ug/l	ND	8.0	ND	8.0
Bromoform	ug/l	ND	4.0	ND	4.0
1,1,2,2-Tetrachloroethane	ug/l	ND	4.0	ND	4.0
Tetrachloroethene	ug/l	ND	1.0	ND	1.0
Toluene	ug/l	ND	1.0	ND	1.0
Chlorobenzene	ug/l	ND	1.0	ND	1.0
Ethylbenzene	ug/l	ND	1.0	ND	1.0
1,3-Dichlorobenzene	ug/l	ND	4.0	ND	4.0
1,2-Dichlorobenzene	ug/l	ND	4.0	ND	4.0
1,4-Dichlorobenzene	ug/l	ND	4.0	ND	4.0

Surrogate % Recovery

Bomochloromethane	96	89
1-Chloro,2-Bromopropane	91	98
1,4-Dichlorobutane	87	96

Concentrations reported as ND were not detected at or above the reporting limit.

LOG NUMBER: 1248
 DATE SAMPLED: 8/23/91
 DATE RECEIVED: 8/23/91
 DATE EXTRACTED: 8/29/91
 DATE ANALYZED: 8/31/91
 DATE REPORTED: 9/06/91
 PAGE: Twenty Six

Sample Type: Water

Method and Constituent:	Units	R&A/P #8-037		Method Blank	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit
EPA Method 625:					
N-Nitrosodimethylamine	ug/l	ND	10	ND	10
Phenol	ug/l	ND	10	ND	10
Bis (-2-Chloroethyl) ether	ug/l	ND	10	ND	10
2-Chlorophenol	ug/l	ND	10	ND	10
1,3-Dichlorobenzene	ug/l	ND	10	ND	10
1,4-Dichlorobenzene	ug/l	ND	10	ND	10
1,2-Dichlorobenzene	ug/l	ND	10	ND	10
N-Nitroso-Di-N- Propylamine	ug/l	ND	10	ND	10
Hexachloroethane	ug/l	ND	10	ND	10
Nitrobenzene	ug/l	ND	10	ND	10
Isophorone	ug/l	ND	10	ND	10
2-Nitrophenol	ug/l	ND	10	ND	10
2,4-Dimethylphenol	ug/l	ND	10	ND	10
Bis(-2-Chloroethoxy) Methane	ug/l	ND	10	ND	10
2,4-Dichlorophenol	ug/l	ND	10	ND	10
1,2,4-Trichlorobenzene	ug/l	ND	10	ND	10
Naphthalene	ug/l	ND	10	ND	10

Concentrations reported as ND were not detected at or above the reporting limit.

LOG NUMBER: 1248
 DATE SAMPLED: 8/23/91
 DATE RECEIVED: 8/23/91
 DATE EXTRACTED: 8/29/91
 DATE ANALYZED: 8/31/91
 DATE REPORTED: 9/06/91
 PAGE: Twenty Seven

Sample Type: Water

<u>Method and Constituent:</u>	<u>Units</u>	<u>R&A/P #8-037</u>		<u>Method Blank</u>	
		<u>Concen- tration</u>	<u>Reporting Limit</u>	<u>Concen- tration</u>	<u>Reporting Limit</u>
EPA Method 625 (Continued):					
Hexachlorobutadiene	ug/l	ND	10	ND	10
4-Chloro-3-Methyl- phenol	ug/l	ND	10	ND	10
Hexachlorocyclo- pentadiene	ug/l	ND	10	ND	10
2,4,6-Trichlorophenol	ug/l	ND	10	ND	10
2-Chloronaphthalene	ug/l	ND	10	ND	10
Dimethyl Phthalate	ug/l	ND	10	ND	10
Acenaphthylene	ug/l	ND	10	ND	10
Acenaphthene	ug/l	ND	10	ND	10
2,4-Dinitrophenol	ug/l	ND	10	ND	10
4-Nitrophenol	ug/l	ND	10	ND	10
2,4-Dinitrotoluene	ug/l	ND	10	ND	10
2,6-Dinitrotoluene	ug/l	ND	10	ND	10
Diethylphthalate	ug/l	ND	10	ND	10
4-Chlorophenylphenyl Ether	ug/l	ND	10	ND	10
Fluorene	ug/l	ND	10	ND	10
N-Nitrosodiphenylamine	ug/l	ND	10	ND	10
4-Bromophenylphenyl Ether	ug/l	ND	10	ND	10
Hexachlorobenzene	ug/l	ND	10	ND	10
Pentachlorophenol	ug/l	ND	10	ND	10
Phenanthrene	ug/l	ND	10	ND	10
Anthracene	ug/l	ND	10	ND	10
Di-N-Butylphthalate	ug/l	ND	10	ND	10
Fluoranthene	ug/l	ND	10	ND	10

Concentrations reported as ND were not detected at or above the reporting limit.

LOG NUMBER: 1248
 DATE SAMPLED: 8/23/91
 DATE RECEIVED: 8/23/91
 DATE EXTRACTED: 8/29/91
 DATE ANALYZED: 8/31/91
 DATE REPORTED: 9/06/91
 PAGE: Twenty Eight

Sample Type: Water

<u>Method and Constituent:</u>	<u>Units</u>	<u>R&A/P #8-037</u>		<u>Method Blank</u>	
		<u>Concen- tration</u>	<u>Reporting Limit</u>	<u>Concen- tration</u>	<u>Reporting Limit</u>
EPA Method 625 (Continued):					
Benzidine	ug/l	ND	10	ND	10
Pyrene	ug/l	ND	10	ND	10
Butylbenzylphthalate	ug/l	ND	10	ND	10
3,3'-Dichlorobenzidine	ug/l	ND	10	ND	10
Benzo(a)Anthracene	ug/l	ND	10	ND	10
Bis(2-Ethylhexyl) Phthalate	ug/l	ND	10	ND	10
Chrysene	ug/l	ND	10	ND	10
Di-N-Octyl Phthalate	ug/l	ND	10	ND	10
Benzo(b)Fluoranthene	ug/l	ND	10	ND	10
Benzo(k)Fluoranthene	ug/l	ND	10	ND	10
Benzo(a)Pyrene	ug/l	ND	10	ND	10
Indeno(1,2,3-cd)Pyrene	ug/l	ND	10	ND	10
Dibenzo(a,h)Anthracene	ug/l	ND	10	ND	10
Benzo(g,h,i)Perylene	ug/l	ND	10	ND	10

Surrogate % Recovery:

Pentafluorophenol	93	50
4-Fluoroaniline	120	30
Decafluorobiphenol	120	150

Concentrations reported as ND were not detected at or above the reporting limit.

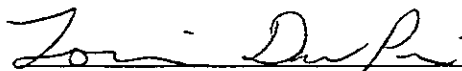
LOG NUMBER: 1248
 DATE SAMPLED: 8/23/91
 DATE RECEIVED: 8/23/91
 DATE EXTRACTED: 8/27/91, 8/28/91 and 9/03/91
 DATE ANALYZED: 8/28/91, 8/29/91, 8/30/91
 and 9/03/91
 DATE REPORTED: 9/06/91
 PAGE: Twenty Nine

Sample Type: Water

Method and Constituent:	Units	R&A/P #8-037		Method Blank		QC Summary	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit	% Recovery	% RPD
EPA Method 7061: Arsenic	mg/l	ND	0.0050	ND	0.0050	73	*
EPA Method 7130: Cadmium	mg/l	ND	0.0057	ND	0.0057	94	*
EPA Method 7190: Chromium	mg/l	ND	0.050	ND	0.050	100	*
EPA Method 7210: Copper	mg/l	ND	0.20	ND	0.20	94	*
EPA Method 7420: Lead	mg/l	ND	0.10	ND	0.10	90	*
EPA Method 7471: Mercury	mg/l	ND	0.00020	ND	0.00020	83	*
EPA Method 7520: Nickel	mg/l	ND	0.30	ND	0.30	97	*
EPA Method 7760: Silver	mg/l	ND	0.010	ND	0.010	90	*
EPA Method 7950: Zinc	mg/l	0.060	0.050	ND	0.050	97	3.3
EPA Method 9010: Cyanide	mg/l	ND	0.020	ND	0.020	93	< 1

Concentrations reported as ND were not detected at or above reporting limit.

* The RPD is not reportable since the sample prepared in duplicate was not detectable.


 Louis W. DuPuis
 Quality Assurance/Quality Control Manager



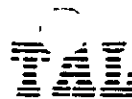
LOG NUMBER: 1750
 DATE SAMPLED: 01/30/92
 DATE RECEIVED: 01/31/92
 DATE EXTRACTED: 02/05/92 and 02/06/92
 DATE ANALYZED: 02/06/92, 02/07/92, 02/10/92
 and 02/11/92
 DATE REPORTED: 02/14/92
 PAGE: Nine

Sample Type: Water

Method and Constituent:	Units	ROUSE/P #1-033		Method Blank		QC Summary	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit	% Recovery	% RPD
EPA Method 7061: Arsenic	mg/l	ND	0.0050	ND	0.0050	87	6.5
EPA Method 7130: Cadmium	mg/l	ND	0.010	ND	0.010	96	*
EPA Method 7190: Chromium	mg/l	ND	0.050	ND	0.050	93	3.5
EPA Method 7210: Copper	mg/l	ND	0.20	ND	0.20	97	4.1
EPA Method 7420: Lead	mg/l	ND	0.10	ND	0.10	78	1.4
EPA Method 7471: Mercury	mg/l	ND	0.0010	ND	0.0010	120	*
EPA Method 7520: Nickel	mg/l	ND	0.30	ND	0.30	96	*
EPA Method 7760: Silver	mg/l	ND	0.010	ND	0.010	97	*
EPA Method 7950: Zinc	mg/l	ND	0.050	ND	0.050	97	0.7

Concentrations reported as ND were not detected at or above the reporting limit.

* The RPD is not reportable since the sample prepared in duplicate was not detectable.



LOG NUMBER: 1750
DATE SAMPLED: 01/30/92
DATE RECEIVED: 01/31/92
DATE ANALYZED: 02/10/92
DATE REPORTED: 02/14/92
PAGE: Ten

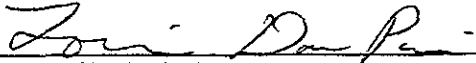
Sample Type: Water

Method and Constituent:	ROUSE/P #1-033		
	Units	Concen- tration	Reporting Limit
EPA Method 335.2: Cyanide	mg/l	ND	0.020

QC Summary:

% Recovery: 88
% RPD: < 1

Concentrations reported as ND were not detected at or above the reporting limit.



Louis W. DuPuis
Quality Assurance/Quality Control Manager

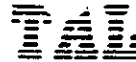


LOG NUMBER: 1750
DATE SAMPLED: 01/30/92
DATE RECEIVED: 01/31/92
DATE EXTRACTED: 02/03/92
DATE ANALYZED: 02/11/92
DATE REPORTED: 02/14/92
PAGE: Two

Sample Type: Water

Method and Constituent:	Units	ROUSE/P #1-033		Method Blank	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit
EPA Method 608					
Aldrin	ug/l	ND	0.10	ND	0.10
Alpha-BHC	ug/l	ND	0.10	ND	0.10
Beta-BHC	ug/l	ND	0.10	ND	0.10
Delta-BHC	ug/l	ND	0.10	ND	0.10
Gamma-BHC (Lindane)	ug/l	ND	0.10	ND	0.10
Chlordane	ug/l	ND	0.10	ND	0.10
4,4'-DDD	ug/l	ND	0.10	ND	0.10
4,4'-DDE	ug/l	ND	0.10	ND	0.10
4,4'-DDT	ug/l	ND	0.10	ND	0.10
Dieldrin	ug/l	ND	0.10	ND	0.10
Endosulfan I	ug/l	ND	0.10	ND	0.10
Endosulfan II	ug/l	ND	0.10	ND	0.10
Endosulfan Sulfate	ug/l	ND	0.10	ND	0.10
Endrin	ug/l	ND	0.10	ND	0.10
Endrin Aldehyde	ug/l	ND	0.10	ND	0.10
Heptachlor	ug/l	ND	0.10	ND	0.10
Heptachlor Epoxide	ug/l	ND	0.10	ND	0.10
Methoxychlor	ug/l	ND	0.10	ND	0.10
Toxaphene	ug/l	ND	0.10	ND	0.10

Concentrations reported as ND were not detected at or above the reporting limit.



LOG NUMBER: 1750
 DATE SAMPLED: 01/30/92
 DATE RECEIVED: 01/31/92
 DATE EXTRACTED: 02/03/92
 DATE ANALYZED: 02/11/92
 DATE REPORTED: 02/14/92
 PAGE: Three

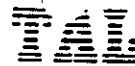
Sample Type: Water

<u>Method and Constituent:</u>	<u>Units</u>	<u>ROUSE/P #1-033</u>		<u>Method Blank</u>	
		<u>Concen- tration</u>	<u>Reporting Limit</u>	<u>Concen- tration</u>	<u>Reporting Limit</u>
EPA Method 608 (Continued):					
Aroclor 1016	ug/l	ND	0.10	ND	0.10
Aroclor 1221	ug/l	ND	0.10	ND	0.10
Aroclor 1232	ug/l	ND	0.10	ND	0.10
Aroclor 1242	ug/l	ND	0.10	ND	0.10
Aroclor 1248	ug/l	ND	0.10	ND	0.10
Aroclor 1254	ug/l	ND	0.10	ND	0.10
Aroclor 1260	ug/l	ND	0.10	ND	0.10

QC Summary:

% Recovery: 114
 % RPD: 5.3

Concentrations reported as ND were not detected at or above the reporting limit.



LOG NUMBER: 1750
DATE SAMPLED: 01/30/92
DATE RECEIVED: 01/31/92
DATE ANALYZED: 02/03/92 and 02/06/92
DATE REPORTED: 02/14/92
PAGE: Four

Sample Type: Water

Table with 6 columns: Method and Constituent, Units, ROUSE/P #1-033 Concentration, ROUSE/P #1-033 Reporting Limit, Method Blank Concentration, Method Blank Reporting Limit. Lists various chemical constituents like Chloromethane, Bromomethane, Vinyl Chloride, etc., with their respective units and limits.

Concentrations reported as ND were not detected at or above the reporting limit.

LOG NUMBER: 1750
 DATE SAMPLED: 01/30/92
 DATE RECEIVED: 01/31/92
 DATE ANALYZED: 02/05/92 and 02/06/92
 DATE REPORTED: 02/14/92
 PAGE: Five

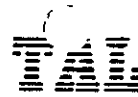
Sample Type: Water

Method and Constituent:	Units	ROUSE/P #1-033		Method Blank	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit
EPA Method 624 (Continued):					
2-Chloroethylvinyl Ether	ug/l	ND	1.0	ND	1.0
Dibromochloromethane	ug/l	ND	1.0	ND	1.0
Cis-1,3-Dichloropropene	ug/l	ND	1.0	ND	1.0
Bromoform	ug/l	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	ug/l	ND	1.0	ND	1.0
Tetrachloroethene	ug/l	ND	1.0	ND	1.0
Toluene	ug/l	ND	1.0	ND	1.0
Chlorobenzene	ug/l	ND	1.0	ND	1.0
Ethylbenzene	ug/l	ND	1.0	ND	1.0
1,3-Dichlorobenzene	ug/l	ND	1.0	ND	1.0
1,2-Dichlorobenzene	ug/l	ND	1.0	ND	1.0
1,4-Dichlorobenzene	ug/l	ND	1.0	ND	1.0

Surrogate % Recovery

Bromochloromethane	111	102
1-Chloro,2-Bromopropane	116	105
1,4-Dichlorobutane	135	62

Concentrations reported as ND were not detected at or above the reporting limit.

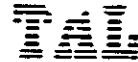


LOG NUMBER: 1750
DATE SAMPLED: 01/30/92
DATE RECEIVED: 01/31/92
DATE EXTRACTED: 02/05/92
DATE ANALYZED: 02/12/92
DATE REPORTED: 02/14/92
PAGE: Six

Sample Type: Water

<u>Method and Constituent:</u>	<u>Units</u>	<u>ROUSE/P #1-033</u>		<u>Method Blank</u>	
		<u>Concen- tration</u>	<u>Reporting Limit</u>	<u>Concen- tration</u>	<u>Reporting Limit</u>
EPA Method 625:					
N-Nitrosodimethylamine	ug/l	ND	10	ND	10
Phenol	ug/l	ND	10	ND	10
Bis (-2-Chloroethyl) ether	ug/l	ND	10	ND	10
2-Chlorophenol	ug/l	ND	10	ND	10
1,3-Dichlorobenzene	ug/l	ND	10	ND	10
1,4-Dichlorobenzene	ug/l	ND	10	ND	10
1,2-Dichlorobenzene	ug/l	ND	10	ND	10
N-Nitroso-Di-N- Propylamine	ug/l	ND	10	ND	10
Hexachloroethane	ug/l	ND	10	ND	10
Nitrobenzene	ug/l	ND	10	ND	10
Isophorone	ug/l	ND	10	ND	10
2-Nitrophenol	ug/l	ND	10	ND	10
2,4-Dimethylphenol	ug/l	ND	10	ND	10
Bis(-2-Chloroethoxy) Methane	ug/l	ND	10	ND	10
2,4-Dichlorophenol	ug/l	ND	10	ND	10
1,2,4-Trichlorobenzene	ug/l	ND	10	ND	10
Naphthalene	ug/l	ND	10	ND	10

Concentrations reported as ND were not detected at or above the reporting limit.

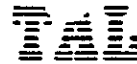


LOG NUMBER: 1750
DATE SAMPLED: 01/30/92
DATE RECEIVED: 01/31/92
DATE EXTRACTED: 02/05/92
DATE ANALYZED: 02/12/92
DATE REPORTED: 02/14/92
PAGE: Seven

Sample Type: Water

<u>Method and Constituent:</u>	<u>Units</u>	<u>ROUSE/P #1-033</u>		<u>Method Blank</u>	
		<u>Concen- tration</u>	<u>Reporting Limit</u>	<u>Concen- tration</u>	<u>Reporting Limit</u>
EPA Method 625 (Continued):					
Hexachlorobutadiene	ug/l	ND	10	ND	10
4-Chloro-3-Methyl- phenol	ug/l	ND	10	ND	10
Hexachlorocyclo- pentadiene	ug/l	ND	10	ND	10
2,4,6-Trichlorophenol	ug/l	ND	10	ND	10
2-Chloronaphthalene	ug/l	ND	10	ND	10
Dimethyl Phthalate	ug/l	ND	10	ND	10
Acenaphthylene	ug/l	ND	10	ND	10
Acenaphthene	ug/l	ND	10	ND	10
2,4-Dinitrophenol	ug/l	ND	10	ND	10
4-Nitrophenol	ug/l	ND	10	ND	10
2,4-Dinitrotoluene	ug/l	ND	10	ND	10
2,6-Dinitrotoluene	ug/l	ND	10	ND	10
Diethylphthalate	ug/l	ND	10	ND	10
4-Chlorophenylphenyl Ether	ug/l	ND	10	ND	10
Fluorene	ug/l	ND	10	ND	10
N-Nitrosodiphenylamine	ug/l	ND	10	ND	10
4-Bromophenylphenyl Ether	ug/l	ND	10	ND	10
Hexachlorobenzene	ug/l	ND	10	ND	10
Pentachlorophenol	ug/l	ND	10	ND	10
Phenanthrene	ug/l	ND	10	ND	10

Concentrations reported as ND were not detected at or above the reporting limit.



LOG NUMBER: 1750
 DATE SAMPLED: 01/29/92 and 01/30/92
 DATE RECEIVED: 01/31/92
 DATE EXTRACTED: 02/05/92
 DATE ANALYZED: 02/12/92
 DATE REPORTED: 02/14/92
 PAGE: Eight

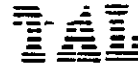
Sample Type: Water

Method and Constituent:	Units	ROUSE/P #1-033		Method Blank	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit
EPA Method 625 (Continued):					
Anthracene	ug/l	ND	10	ND	10
Di-N-Butylphthalate	ug/l	ND	10	ND	10
Fluoranthene	ug/l	ND	10	ND	10
Benzidine	ug/l	ND	10	ND	10
Pyrene	ug/l	ND	10	ND	10
Butylbenzylphthalate	ug/l	ND	10	ND	10
3,3'-Dichlorobenzidine	ug/l	ND	10	ND	10
Benzo(a)Anthracene	ug/l	ND	10	ND	10
Bis(2-Ethylhexyl) Phthalate	ug/l	ND	10	ND	10
Chrysene	ug/l	ND	10	ND	10
Di-N-Octyl Phthalate	ug/l	ND	10	ND	10
Benzo(b)Fluoranthene	ug/l	ND	10	ND	10
Benzo(k)Fluoranthene	ug/l	ND	10	ND	10
Benzo(a)Pyrene	ug/l	ND	10	ND	10
Indeno(1,2,3-cd)Pyrene	ug/l	ND	10	ND	10
Dibenzo(a,h)Anthracene	ug/l	ND	10	ND	10
Benzo(g,h,i)Perylene	ug/l	ND	10	ND	10

Surrogate % Recovery:

Pentafluorophenyl	120	112
4-Fluoroaniline	111	90
Decafluorobiphenyl	98	123

Concentrations reported as ND were not detected at or above the reporting limit.



LOG NUMBER: 2101
 DATE SAMPLED: 05/07/92
 DATE RECEIVED: 05/08/92
 DATE EXTRACTED: 05/17/92
 DATE ANALYZED: 05/17/92, 05/18/92 and 05/19/92
 DATE REPORTED: 05/21/92
 PAGE: Ten

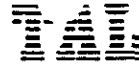
ROUSE & ASSOCIATES
 5/1/92

Sample Type: Water

Method and Constituent:	Units	ROUSE/P # 5-005		Method Blank		QC Summary	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit	% Recovery	% RPD
EPA Method 7060: Arsenic	mg/l	ND	0.0050	ND	0.0050	65	*
EPA Method 7130: Cadmium	mg/l	ND	0.010	ND	0.010	84	*
EPA Method 7190: Chromium	mg/l	ND	0.050	ND	0.050	88	2.1
EPA Method 7210: Copper	mg/l	ND	0.20	ND	0.20	100	*
EPA Method 7420: Lead	mg/l	ND	0.10	ND	0.10	71	*
EPA Method 7471: Mercury	mg/l	0.0011	0.0010	ND	0.0010	111	*
EPA Method 7520: Nickel	mg/l	ND	0.30	ND	0.30	91	*
EPA Method 7760: Silver	mg/l	ND	0.010	ND	0.010	94	*
EPA Method 7950: Zinc	mg/l	ND	0.050	ND	0.050	97	*

Concentrations reported as ND were not detected at or above the reporting limit.

* The RPD is not reportable since the sample prepared in duplicate was not detectable.



LOG NUMBER: 2101
DATE SAMPLED: 05/07/92
DATE RECEIVED: 05/08/92
DATE ANALYZED: 05/20/92
DATE REPORTED: 05/21/92
PAGE: Eleven

Sample Type: Water

<u>Method and Constituent:</u>	<u>ROUSE/P # 5-005</u>		
	<u>Units</u>	<u>Concen- tration</u>	<u>Reporting Limit</u>
EPA Method 335.2: Cyanide	mg/l	ND	0.020

QC Summary:

% Recovery: 87
% RPD: < 1

Concentrations reported as ND were not detected at or above the reporting limit.



LOG NUMBER: 2101
DATE SAMPLED: 05/07/92
DATE RECEIVED: 05/08/92
DATE ANALYZED: 05/13/92
DATE REPORTED: 05/21/92
PAGE: Three

Sample Type: Water

<u>Method and Constituent:</u>	<u>Units</u>	<u>ROUSE/P #5-005</u>		<u>Method Blank</u>	
		<u>Concen- tration</u>	<u>Reporting Limit</u>	<u>Concen- tration</u>	<u>Reporting Limit</u>
EPA Method 624:					
Chloromethane	ug/l	ND	10	ND	10
Bromomethane	ug/l	ND	2.0	ND	2.0
Vinyl Chloride	ug/l	ND	10	ND	10
Chloroethane	ug/l	ND	2.0	ND	2.0
Methylene Chloride	ug/l	ND	3.8	6.1	3.8
Trichlorofluoromethane	ug/l	ND	2.0	ND	2.0
1,1-Dichloroethene	ug/l	ND	2.0	ND	2.0
1,1-Dichloroethane	ug/l	ND	2.0	ND	2.0
Trans-1,2-Dichloroethene	ug/l	ND	2.0	ND	2.0
Chloroform	ug/l	ND	2.0	ND	2.0
1,2-Dichloroethane	ug/l	ND	2.0	ND	2.0
1,1,1-Trichloroethane	ug/l	ND	2.0	ND	2.0
Carbon Tetrachloride	ug/l	ND	2.0	ND	2.0
Bromodichloromethane	ug/l	ND	2.0	ND	2.0
1,2-Dichloropropane	ug/l	ND	2.0	ND	2.0
Trans-1,3-Dichloropropene	ug/l	ND	2.0	ND	2.0
1,1,2-Trichloroethane	ug/l	ND	3.0	ND	3.0
Trichloroethene	ug/l	ND	2.0	ND	2.0
Benzene	ug/l	ND	2.0	ND	2.0

Concentrations reported as ND were not detected at or above the reporting limit.

LOG NUMBER: 2101
 DATE SAMPLED: 05/07/92
 DATE RECEIVED: 05/08/92
 DATE ANALYZED: 05/13/92
 DATE REPORTED: 05/21/92
 PAGE: Four

Sample Type: Water

<u>Method and Constituent</u>	<u>Units</u>	<u>ROUSE/P #5-005</u>		<u>Method Blank</u>	
		<u>Concen- tration</u>	<u>Reporting Limit</u>	<u>Concen- tration</u>	<u>Reporting Limit</u>
EPA Method 624 (Continued):					
2-Chloroethylvinyl Ether	ug/l	ND	10	ND	10
Dibromochloromethane	ug/l	ND	2.0	ND	2.0
Cis-1,3-Dichloropropene	ug/l	ND	2.0	ND	2.0
Bromoform	ug/l	ND	2.0	ND	2.0
1,1,2,2-Tetrachloroethane	ug/l	ND	3.0	ND	3.0
Tetrachloroethene	ug/l	ND	2.0	ND	2.0
Toluene	ug/l	ND	2.0	ND	2.0
Chlorobenzene	ug/l	ND	2.0	ND	2.0
Ethylbenzene	ug/l	ND	2.0	ND	2.0
1,3-Dichlorobenzene	ug/l	ND	3.0	ND	3.0
1,2-Dichlorobenzene	ug/l	ND	3.0	ND	3.0
1,4-Dichlorobenzene	ug/l	ND	3.0	ND	3.0

Surrogate % Recovery

Bromochloromethane	85	88
1-Chloro,2-Bromopropane	114	113
1,4-Dichlorobutane	84	97

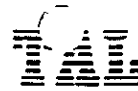
Concentrations reported as ND were not detected at or above the reporting limit.

LOG NUMBER: 2101
 DATE SAMPLED: 05/07/92
 DATE RECEIVED: 05/08/92
 DATE EXTRACTED: 05/14/92
 DATE ANALYZED: 05/15/92
 DATE REPORTED: 05/21/92
 PAGE: Five

Sample Type: Water

<u>Method and Constituent:</u>	<u>Units</u>	<u>ROUSE/P #5-005</u>		<u>Method Blank</u>	
		<u>Concen- tration</u>	<u>Reporting Limit</u>	<u>Concen- tration</u>	<u>Reporting Limit</u>
EPA Method 608					
Aldrin	ug/l	ND	0.10	ND	0.10
Alpha-BHC	ug/l	ND	0.10	ND	0.10
Beta-BHC	ug/l	ND	0.10	ND	0.10
Delta-BHC	ug/l	ND	0.10	ND	0.10
Gamma-BHC (Lindane)	ug/l	ND	0.10	ND	0.10
Chlordane	ug/l	ND	0.10	ND	0.10
4,4'-DDD	ug/l	ND	0.10	ND	0.10
4,4'-DDE	ug/l	ND	0.10	ND	0.10
4,4'-DDT	ug/l	ND	0.10	ND	0.10
Dieldrin	ug/l	ND	0.10	ND	0.10
Endosulfan I	ug/l	ND	0.10	ND	0.10
Endosulfan II	ug/l	ND	0.10	ND	0.10
Endosulfan Sulfate	ug/l	ND	0.10	ND	0.10
Endrin	ug/l	ND	0.10	ND	0.10
Endrin Aldehyde	ug/l	ND	0.10	ND	0.10
Heptachlor	ug/l	ND	0.10	ND	0.10
Heptachlor Epoxide	ug/l	ND	0.10	ND	0.10
Methoxychlor	ug/l	ND	0.10	ND	0.10
Toxaphene	ug/l	ND	0.10	ND	0.10

Concentrations reported as ND were not detected at or above the reporting limit.



LOG NUMBER: 2101
DATE SAMPLED: 05/07/92
DATE RECEIVED: 05/08/95
DATE EXTRACTED: 05/14/92
DATE ANALYZED: 05/15/92
DATE REPORTED: 05/21/92
PAGE: Six

Sample Type: Water

<u>Method and Constituent:</u>	<u>Units</u>	<u>ROUSE/P #5-005</u>		<u>Method Blank</u>	
		<u>Concen- tration</u>	<u>Reporting Limit</u>	<u>Concen- tration</u>	<u>Reporting Limit</u>
EPA Method 608 (Continued):					
Aroclor 1016	ug/l	ND	0.10	ND	0.10
Aroclor 1221	ug/l	ND	0.10	ND	0.10
Aroclor 1232	ug/l	ND	0.10	ND	0.10
Aroclor 1242	ug/l	ND	0.10	ND	0.10
Aroclor 1248	ug/l	ND	0.10	ND	0.10
Aroclor 1254	ug/l	ND	0.10	ND	0.10
Aroclor 1260	ug/l	ND	0.10	ND	0.10

QC Summary:

% Recovery: 116
% RPD: 0.9

Concentrations reported as ND were not detected at or above the reporting limit.

LOG NUMBER: 2101
 DATE SAMPLED: 05/07/92
 DATE RECEIVED: 05/08/92
 DATE EXTRACTED: 05/13/92
 DATE ANALYZED: 05/17/92
 DATE REPORTED: 05/21/92
 PAGE: Seven

Sample Type: Water

<u>Method and Constituent:</u>	<u>Units</u>	<u>ROUSE/P # 5-005</u>		<u>Method Blank</u>	
		<u>Concen- tration</u>	<u>Reporting Limit</u>	<u>Concen- tration</u>	<u>Reporting Limit</u>
EPA Method 625:					
N-Nitrosodimethylamine	ug/l	ND	10	ND	10
Phenol	ug/l	ND	10	ND	10
Bis (-2-Chloroethyl) ether	ug/l	ND	10	ND	10
2-Chlorophenol	ug/l	ND	10	ND	10
1,3-Dichlorobenzene	ug/l	ND	10	ND	10
1,4-Dichlorobenzene	ug/l	ND	10	ND	10
1,2-Dichlorobenzene	ug/l	ND	10	ND	10
N-Nitroso-Di-N- Propylamine	ug/l	ND	10	ND	10
Hexachloroethane	ug/l	ND	10	ND	10
Nitrobenzene	ug/l	ND	10	ND	10
Isophorone	ug/l	ND	10	ND	10
2-Nitrophenol	ug/l	ND	10	ND	10
2,4-Dimethylphenol	ug/l	ND	10	ND	10
Bis(-2-Chloroethoxy) Methane	ug/l	ND	10	ND	10
2,4-Dichlorophenol	ug/l	ND	10	ND	10
1,2,4-Trichlorobenzene	ug/l	ND	10	ND	10
Naphthalene	ug/l	ND	10	ND	10

Concentrations reported as ND were not detected at or above the reporting limit.

LOG NUMBER: 2101
 DATE SAMPLED: 05/07/92
 DATE RECEIVED: 05/08/92
 DATE EXTRACTED: 05/15/92
 DATE ANALYZED: 05/17/92
 DATE REPORTED: 05/21/92
 PAGE: Eight

Sample Type: Water

Method and Constituent	Units	ROUSE/P # 5-005		Method Blank	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit
EPA Method 625 (Continued):					
Hexachlorobutadiene	ug/l	ND	10	ND	10
4-Chloro-3-Methyl- phenol	ug/l	ND	10	ND	10
Hexachlorocyclo- pentadiene	ug/l	ND	10	ND	10
2,4,6-Trichlorophenol	ug/l	ND	10	ND	10
2-Chloronaphthalene	ug/l	ND	10	ND	10
Dimethyl Phthalate	ug/l	ND	10	ND	10
Acenaphthylene	ug/l	ND	10	ND	10
Acenaphthene	ug/l	ND	10	ND	10
2,4-Dinitrophenol	ug/l	ND	10	ND	10
4-Nitrophenol	ug/l	ND	10	ND	10
2,4-Dinitrotoluene	ug/l	ND	10	ND	10
2,6-Dinitrotoluene	ug/l	ND	10	ND	10
Diethylphthalate	ug/l	ND	10	ND	10
4-Chlorophenylphenyl Ether	ug/l	ND	10	ND	10
Fluorene	ug/l	ND	10	ND	10
N-Nitrosodiphenylamine	ug/l	ND	10	ND	10
4-Bromophenylphenyl Ether	ug/l	ND	10	ND	10
Hexachlorobenzene	ug/l	ND	10	ND	10
Pentachlorophenol	ug/l	ND	10	ND	10
Phenanthrene	ug/l	ND	10	ND	10
Anthracene	ug/l	ND	10	ND	10

Concentrations reported as ND were not detected at or above the reporting limit.

LOG NUMBER: 2101
 DATE SAMPLED: 05/07/92
 DATE RECEIVED: 05/08/92
 DATE EXTRACTED: 05/13/92
 DATE ANALYZED: 05/17/92
 DATE REPORTED: 05/21/92
 PAGE: Nine

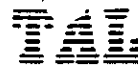
Sample Type: Water

Method and Constituent:	Units	ROUSE/P # 5-005		Method Blank	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit
EPA Method 625 (Continued):					
Di-N-Butylphthalate	ug/l	ND	10	ND	10
Fluoranthene	ug/l	ND	10	ND	10
Benzidine	ug/l	ND	10	ND	10
Pyrene	ug/l	ND	10	ND	10
Butylbenzylphthalate	ug/l	ND	10	ND	10
3,3'-Dichlorobenzidine	ug/l	ND	10	ND	10
Benzo(a)Anthracene	ug/l	ND	10	ND	10
Bis(2-Ethylhexyl) Phthalate	ug/l	ND	10	ND	10
Chrysene	ug/l	ND	10	ND	10
Di-N-Octyl Phthalate	ug/l	ND	10	ND	10
Benzo(b)Fluoranthene	ug/l	ND	10	ND	10
Benzo(k)Fluoranthene	ug/l	ND	10	ND	10
Benzo(a)Pyrene	ug/l	ND	10	ND	10
Indeno(1,2,3-cd)Pyrene	ug/l	ND	10	ND	10
Dibenzo(a,h)Anthracene	ug/l	ND	10	ND	10
Benzo(g,h,i)Perylene	ug/l	ND	10	ND	10

Surrogate % Recovery:

Pentafluorophenol	82	99
4-Fluoroaniline	77	77
Decafluorobiphenyl	88	72

Concentrations reported as ND were not detected at or above the reporting limit.



LOG NUMBER: 2363
 DATE SAMPLED: 07/29/92
 DATE RECEIVED: 07/28/92
 DATE EXTRACTED: 08/05/92
 DATE ANALYZED: 08/06/92 and 08/07/92
 DATE REPORTED: 08/13/92
 PAGE: Four

Sample Type: Water

Method and Constituent:	Units	R&A/P #7-046		Method Blank		QC Summary	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit	% Recovery	% RPD
EPA Method 206.2: Arsenic	mg/l	ND	0.0050	ND	0.0050	98	*
EPA Method 215.1: Cadmium	mg/l	ND	0.010	ND	0.010	108	*
EPA Method 218.1: Chromium	mg/l	ND	0.050	ND	0.050	92	*
EPA Method 220.1: Copper	mg/l	ND	0.20	ND	0.20	100	*
EPA Method 239.1: Lead	mg/l	ND	0.10	ND	0.10	104	*
EPA Method 245.5: Mercury	mg/l	ND	0.0010	ND	0.0010	95	*
EPA Method 249.1: Nickel	mg/l	ND	0.30	ND	0.30	96	*
EPA Method 272.1: Silver	mg/l	ND	0.010	ND	0.010	124	*
EPA Method 289.1: Zinc	mg/l	0.050	0.050	ND	0.050	100	4.7

Concentrations reported as ND were not detected at or above the reporting limit.

* The RPD is not reportable since the sample prepared in duplicate was not detectable.



LOG NUMBER: 2363
DATE SAMPLED: 07/29/92
DATE RECEIVED: 07/30/92
DATE ANALYZED: 08/10/92
DATE REPORTED: 08/13/92
PAGE: Twelve

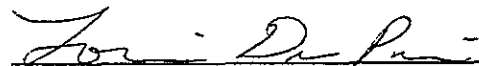
Sample Type: Water

<u>Method and Constituent:</u>	<u>Units</u>	<u>R&A/P #7-046</u>	
		<u>Concen- tration</u>	<u>Reporting Limit</u>
EPA Method 223.2 Cyanide	mg/l	ND	0.020

QC Summary:

% Recovery: 89
% RPD: < 1

Concentrations reported as ND were not detected at or above the reporting limit.



Louis W. DuPuis
Quality Assurance/Quality Control Manager



LOG NUMBER: 2363
DATE SAMPLED: 07/29/92
DATE RECEIVED: 07/28/92
DATE EXTRACTED: 07/31/92
DATE ANALYZED: 08/05/92
DATE REPORTED: 08/13/92
PAGE: Five

Sample Type: Water

<u>Method and Constituent:</u>	<u>Units</u>	<u>R&A/P #7-046</u>		<u>Method Blank</u>	
		<u>Concen- tration</u>	<u>Reporting Limit</u>	<u>Concen- tration</u>	<u>Reporting Limit</u>
EPA Method 608:					
Aldrin	ug/l	ND	1.0	ND	1.0
Alpha-BHC	ug/l	ND	1.0	ND	1.0
Beta-BHC	ug/l	ND	1.0	ND	1.0
Delta-BHC	ug/l	ND	1.0	ND	1.0
Gamma-BHC (Lindane)	ug/l	ND	1.0	ND	1.0
Chlordane	ug/l	ND	1.0	ND	1.0
4,4'-DDD	ug/l	ND	0.10	ND	0.10
4,4'-DDE	ug/l	ND	0.10	ND	0.10
4,4'-DDT	ug/l	ND	0.10	ND	0.10
Dieldrin	ug/l	ND	0.10	ND	0.10
Endosulfan I	ug/l	ND	0.10	ND	0.10
Endosulfan II	ug/l	ND	0.10	ND	0.10
Endosulfan Sulfate	ug/l	ND	0.10	ND	0.10
Endrin	ug/l	ND	0.10	ND	0.10
Endrin Aldehyde	ug/l	ND	0.10	ND	0.10
Heptachlor	ug/l	ND	1.0	ND	1.0
Heptachlor Epoxide	ug/l	ND	1.0	ND	1.0
Methoxychlor	ug/l	ND	0.10	ND	0.10
Toxaphene	ug/l	ND	1.0	ND	1.0

Concentrations reported as ND were not detected at or above the reporting limit.



LOG NUMBER: 2363
 DATE SAMPLED: 07/29/92
 DATE RECEIVED: 07/28/92
 DATE EXTRACTED: 07/31/92
 DATE ANALYZED: 08/05/92
 DATE REPORTED: 08/13/92
 PAGE: Six

Sample Type: Water

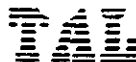
<u>Method and Constituent:</u>	<u>Units</u>	<u>R&A/P #7-046</u>		<u>Method Blank</u>	
		<u>Concen- tration</u>	<u>Reporting Limit</u>	<u>Concen- tration</u>	<u>Reporting Limit</u>
EPA Method 608 (Continued):					
Aroclor 1016	ug/l	ND	1.0	ND	1.0
Aroclor 1221	ug/l	ND	1.0	ND	1.0
Aroclor 1232	ug/l	ND	1.0	ND	1.0
Aroclor 1242	ug/l	ND	1.0	ND	1.0
Aroclor 1248	ug/l	ND	1.0	ND	1.0
Aroclor 1254	ug/l	ND	1.0	ND	1.0
Aroclor 1260	ug/l	ND	1.0	ND	1.0

QC Summary:

% Recovery: 90
 % RPD: 3.4

Concentrations reported as ND were not detected at or above the reporting limit.

This sample contained an interfering compound which caused an increase in the reporting limits for the PCBs and some pesticides.

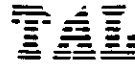


LOG NUMBER: 2363A
DATE SAMPLED: 07/29/92
DATE RECEIVED: 07/30/92
DATE ANALYZED: 08/01/92
DATE REPORTED: 08/06/92
PAGE: Seven

Sample Type: Water

<u>Method and Constituent:</u>	<u>Units</u>	<u>R&A/P #7-046</u>		<u>Method Blank</u>	
		<u>Concen- tration</u>	<u>Reporting Limit</u>	<u>Concen- tration</u>	<u>Reporting Limit</u>
EPA Method 624:					
Chloromethane	ug/l	ND	10	ND	10
Bromomethane	ug/l	ND	2.0	ND	2.0
Vinyl Chloride	ug/l	ND	10	ND	10
Chloroethane	ug/l	ND	2.0	ND	2.0
Methylene Chloride	ug/l	ND	2.0	ND	2.0
Trichlorofluoromethane	ug/l	ND	2.0	ND	2.0
1,1-Dichloroethene	ug/l	ND	2.0	ND	2.0
1,1-Dichloroethane	ug/l	ND	2.0	ND	2.0
Trans-1,2-Dichloroethene	ug/l	ND	2.0	ND	2.0
Chloroform	ug/l	ND	2.0	ND	2.0
1,2-Dichloroethane	ug/l	ND	2.0	ND	2.0
1,1,1-Trichloroethane	ug/l	ND	2.0	ND	2.0
Carbon Tetrachloride	ug/l	ND	2.0	ND	2.0
Bromodichloromethane	ug/l	ND	2.0	ND	2.0
1,2-Dichloropropane	ug/l	ND	5.4	ND	5.4
Trans-1,3-Dichloropropene	ug/l	ND	2.0	ND	2.0
1,1,2-Trichloroethane	ug/l	ND	3.0	ND	3.0
Trichloroethene	ug/l	ND	2.0	ND	2.0
Benzene	ug/l	ND	2.0	ND	2.0

Concentrations reported as ND were not detected at or above the reporting limit.



LOG NUMBER: 2363A
DATE SAMPLED: 07/29/92
DATE RECEIVED: 07/30/92
DATE ANALYZED: 08/01/92
DATE REPORTED: 08/06/92
PAGE: Eight

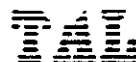
Sample Type: Water

<u>Method and Constituent</u>	<u>Units</u>	<u>R&A/P #7-046</u>		<u>Method Blank</u>	
		<u>Concen- tration</u>	<u>Reporting Limit</u>	<u>Concen- tration</u>	<u>Reporting Limit</u>
EPA Method 624 (Continued):					
2-Chloroethylvinyl Ether	ug/l	ND	10	ND	10
Dibromochloromethane	ug/l	ND	2.0	ND	2.0
Cis-1,3-Dichloropropene	ug/l	ND	2.0	ND	2.0
Bromoform	ug/l	ND	2.0	ND	2.0
1,1,2,2-Tetrachloroethane	ug/l	ND	3.0	ND	3.0
Tetrachloroethene	ug/l	ND	2.0	ND	2.0
Toluene	ug/l	ND	2.7	9.8	2.7
Chlorobenzene	ug/l	ND	2.0	ND	2.0
Ethylbenzene	ug/l	ND	2.0	ND	2.0
1,3-Dichlorobenzene	ug/l	ND	3.0	ND	3.0
1,2-Dichlorobenzene	ug/l	ND	3.0	ND	3.0
1,4-Dichlorobenzene	ug/l	ND	3.0	ND	3.0

Surrogate % Recovery

Bromochloromethane	97	100
1-Chloro,2-Bromopropane	102	92
1,4-Dichlorobutane	92	104

Concentrations reported as ND were not detected at or above the reporting limit.



LOG NUMBER: 2363
DATE SAMPLED: 07/29/92
DATE RECEIVED: 07/28/92
DATE EXTRACTED: 07/31/92
DATE ANALYZED: 08/08/92
DATE REPORTED: 08/13/92
PAGE: Nine

Sample Type: Water

Method and Constituent:	Units	R&A/P #7-046		Method Blank	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit
EPA Method 625:					
N-Nitrosodimethylamine	ug/l	ND	10	ND	10
Phenol	ug/l	ND	10	ND	10
Bis (-2-Chloroethyl) ether	ug/l	ND	10	ND	10
2-Chlorophenol	ug/l	ND	10	ND	10
1,3-Dichlorobenzene	ug/l	ND	10	ND	10
1,4-Dichlorobenzene	ug/l	ND	10	ND	10
1,2-Dichlorobenzene	ug/l	ND	10	ND	10
N-Nitroso-Di-N- Propylamine	ug/l	ND	10	ND	10
Hexachloroethane	ug/l	ND	10	ND	10
Nitrobenzene	ug/l	ND	10	ND	10
Isophorone	ug/l	ND	10	ND	10
2-Nitrophenol	ug/l	ND	10	ND	10
2,4-Dimethylphenol	ug/l	ND	10	ND	10
Bis(-2-Chloroethoxy) Methane	ug/l	ND	10	ND	10
2,4-Dichlorophenol	ug/l	ND	10	ND	10
1,2,4-Trichlorobenzene	ug/l	ND	10	ND	10
Naphthalene	ug/l	ND	10	ND	10

Concentrations reported as ND were not detected at or above the reporting limit.



LOG NUMBER: 2363
DATE SAMPLED: 07/29/92
DATE RECEIVED: 07/28/92
DATE EXTRACTED: 07/31/92
DATE ANALYZED: 08/08/92
DATE REPORTED: 08/13/92
PAGE: Ten

Sample Type: Water

<u>Method and Constituent</u>	<u>Units</u>	<u>R&A/P #7-046</u>		<u>Method Blank</u>	
		<u>Concen- tration</u>	<u>Reporting Limit</u>	<u>Concen- tration</u>	<u>Reporting Limit</u>
EPA Method 625 (Continued):					
Hexachlorobutadiene	ug/l	ND	10	ND	10
4-Chloro-3-Methyl- phenol	ug/l	ND	10	ND	10
Hexachlorocyclo- pentadiene	ug/l	ND	10	ND	10
2,4,6-Trichlorophenol	ug/l	ND	10	ND	10
2-Chloronaphthalene	ug/l	ND	10	ND	10
Dimethyl Phthalate	ug/l	ND	10	ND	10
Acenaphthylene	ug/l	ND	10	ND	10
Acenaphthene	ug/l	ND	10	ND	10
2,4-Dinitrophenol	ug/l	ND	10	ND	10
4-Nitrophenol	ug/l	ND	10	ND	10
2,4-Dinitrotoluene	ug/l	ND	10	ND	10
2,6-Dinitrotoluene	ug/l	ND	10	ND	10
Diethylphthalate	ug/l	ND	10	ND	10
4-Chlorophenylphenyl Ether	ug/l	ND	10	ND	10
Fluorene	ug/l	ND	10	ND	10
N-Nitrosodiphenylamine	ug/l	ND	10	ND	10
4-Bromophenylphenyl Ether	ug/l	ND	10	ND	10
Hexachlorobenzene	ug/l	ND	10	ND	10
Pentachlorophenol	ug/l	ND	10	ND	10
Phenanthrene	ug/l	ND	10	ND	10
Anthracene	ug/l	ND	10	ND	10

Concentrations reported as ND were not detected at or above the reporting limit.



LOG NUMBER: 2363
 DATE SAMPLED: 07/29/92
 DATE RECEIVED: 07/28/92
 DATE EXTRACTED: 07/31/92
 DATE ANALYZED: 08/08/92
 DATE REPORTED: 08/13/92
 PAGE: Eleven

Sample Type: Water

Method and Constituent:	Units	R&A/P #7-046		Method Blank	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit
EPA Method 625 (Continued):					
Di-N-Butylphthalate	ug/l	ND	10	ND	10
Fluoranthene	ug/l	ND	10	ND	10
Benzidine	ug/l	ND	10	ND	10
Pyrene	ug/l	ND	10	ND	10
Butylbenzylphthalate	ug/l	ND	10	ND	10
3,3'-Dichlorobenzidine	ug/l	ND	10	ND	10
Benzo(a)Anthracene	ug/l	ND	10	ND	10
Bis(2-Ethylhexyl) Phthalate	ug/l	ND	10	ND	10
Chrysene	ug/l	ND	10	ND	10
Di-N-Octyl Phthalate	ug/l	ND	10	ND	10
Benzo(b)Fluoranthene	ug/l	ND	10	ND	10
Benzo(k)Fluoranthene	ug/l	ND	10	ND	10
Benzo(a)Pyrene	ug/l	ND	10	ND	10
Indeno(1,2,3-cd)Pyrene	ug/l	ND	10	ND	10
Dibenzo(a,h)Anthracene	ug/l	ND	10	ND	10
Benzo(g,h,i)Perylene	ug/l	ND	10	ND	10

Surrogate % Recovery:

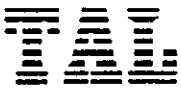
Pentafluorophenol	105	125
4-Fluoroaniline	126	129
Decafluorobiphenyl	71	77

Concentrations reported as ND were not detected at or above the reporting limit.

Trace Analysis Laboratory, Inc.

3423 Investment Boulevard, #8 • Hayward, California 94545

Telephone (510) 783-6960
Facsimile (510) 783-1512



LOG NUMBER: 2680
DATE SAMPLED: 11/16/92
DATE RECEIVED: 11/16/92
DATE EXTRACTED: 11/19/92
DATE ANALYZED: 11/24/92
DATE REPORTED: 12/16/92

CUSTOMER: Water Pollution Control Plant
REQUESTER: Sue Cheng
PROJECT: City of San Leandro, Samples received 11/16/92

pH - 7.2

Sample Type: Water

<u>Method and Constituent:</u>	<u>Units</u>	<u>R&A/P #11-025</u>		<u>Method Blank</u>	
		<u>Concen- tration</u>	<u>Reporting Limit</u>	<u>Concen- tration</u>	<u>Reporting Limit</u>
EPA Method 608:					
Aldrin	ug/l	ND	0.10	ND	0.10
Alpha-BHC	ug/l	ND	0.10	ND	0.10
Beta-BHC	ug/l	ND	0.10	ND	0.10
Delta-BHC	ug/l	ND	0.10	ND	0.10
Gamma-BHC (Lindane)	ug/l	ND	0.10	ND	0.10
Chlordane	ug/l	ND	0.10	ND	0.10
4,4'-DDD	ug/l	ND	0.10	ND	0.10
4,4'-DDE	ug/l	ND	0.10	ND	0.10
4,4'-DDT	ug/l	ND	0.10	ND	0.10
Dieldrin	ug/l	ND	0.10	ND	0.10
Endosulfan I	ug/l	ND	0.10	ND	0.10
Endosulfan II	ug/l	ND	0.10	ND	0.10
Endosulfan Sulfate	ug/l	ND	0.10	ND	0.10
Endrin	ug/l	ND	0.10	ND	0.10
Endrin Aldehyde	ug/l	ND	0.10	ND	0.10
Heptachlor	ug/l	ND	0.10	ND	0.10
Heptachlor Epoxide	ug/l	ND	0.10	ND	0.10
Methoxychlor	ug/l	ND	0.10	ND	0.10
Toxaphene	ug/l	ND	0.10	ND	0.10

Concentrations reported as ND were not detected at or above the reporting limit.

LOG NUMBER: 2680
 DATE SAMPLED: 11/16/92
 DATE RECEIVED: 11/16/92
 DATE EXTRACTED: 11/19/92
 DATE ANALYZED: 11/24/92
 DATE REPORTED: 12/16/92
 PAGE: Two

Sample Type: Water

<u>Method and Constituent:</u>	<u>Units</u>	<u>R&A/P #11-025</u>		<u>Method Blank</u>	
		<u>Concen- tration</u>	<u>Reporting Limit</u>	<u>Concen- tration</u>	<u>Reporting Limit</u>
EPA Method 608 (Continued):					
Aroclor 1016	ug/l	ND	0.10	ND	0.10
Aroclor 1221	ug/l	ND	0.10	ND	0.10
Aroclor 1232	ug/l	ND	0.10	ND	0.10
Aroclor 1242	ug/l	ND	0.10	ND	0.10
Aroclor 1248	ug/l	ND	0.10	ND	0.10
Aroclor 1254	ug/l	ND	0.10	ND	0.10
Aroclor 1260	ug/l	ND	0.10	ND	0.10

QC Summary:

% Recovery: 109
 % RPD: 11

Concentrations reported as ND were not detected at or above the reporting limit.

LOG NUMBER: 2680A
 DATE SAMPLED: 11/16/92
 DATE RECEIVED: 11/16/92
 DATE ANALYZED: 11/18/92
 DATE REPORTED: 11/23/92
 PAGE: Three

Sample Type: Water

Method and Constituent:	Units	R&A/P #11-025		Method Blank	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit
EPA Method 624:					
Chloromethane	ug/l	ND	10	ND	10
Bromomethane	ug/l	ND	2.0	ND	2.0
Vinyl Chloride	ug/l	ND	10	ND	10
Chloroethane	ug/l	ND	2.0	ND	2.0
Methylene Chloride	ug/l	ND	2.0	12	2.0
Trichlorofluoromethane	ug/l	ND	2.0	ND	2.0
1,1-Dichloroethene	ug/l	ND	2.0	ND	2.0
1,1-Dichloroethane	ug/l	ND	2.0	ND	2.0
Trans-1,2-Dichloroethene	ug/l	ND	2.0	ND	2.0
Chloroform	ug/l	ND	2.0	ND	2.0
1,2-Dichloroethane	ug/l	ND	2.0	ND	2.0
1,1,1-Trichloroethane	ug/l	ND	2.0	ND	2.0
Carbon Tetrachloride	ug/l	ND	2.0	ND	2.0
Bromodichloromethane	ug/l	ND	2.0	ND	2.0
1,2-Dichloropropane	ug/l	ND	2.0	ND	2.0
Trans-1,3-Dichloropropene	ug/l	ND	2.0	ND	2.0
1,1,2-Trichloroethane	ug/l	ND	3.0	ND	3.0
Trichloroethene	ug/l	ND	2.0	ND	2.0
Benzene	ug/l	ND	2.0	2.1	2.0

Concentrations reported as ND were not detected at or above the reporting limit.

LOG NUMBER: 2680A
 DATE SAMPLED: 11/16/92
 DATE RECEIVED: 11/16/92
 DATE ANALYZED: 11/18/92
 DATE REPORTED: 11/23/92
 PAGE: Four

Sample Type: Water

<u>Method and Constituent</u>	<u>Units</u>	<u>R&A/P #11-025</u>		<u>Method Blank</u>	
		<u>Concen- tration</u>	<u>Reporting Limit</u>	<u>Concen- tration</u>	<u>Reporting Limit</u>
EPA Method 624 (Continued):					
2-Chloroethylvinyl Ether	ug/l	ND	10	ND	10
Dibromochloromethane	ug/l	ND	2.0	ND	2.0
Cis-1,3-Dichloropropene	ug/l	ND	2.0	ND	2.0
Bromoform	ug/l	ND	2.0	ND	2.0
1,1,2,2-Tetrachloroethane	ug/l	ND	3.0	ND	3.0
Tetrachloroethene	ug/l	ND	2.0	ND	2.0
Toluene	ug/l	ND	2.0	14	2.0
Chlorobenzene	ug/l	ND	2.0	ND	2.0
Ethylbenzene	ug/l	ND	2.0	ND	2.0
1,3-Dichlorobenzene	ug/l	ND	3.0	ND	3.0
1,2-Dichlorobenzene	ug/l	ND	3.0	ND	3.0
1,4-Dichlorobenzene	ug/l	ND	3.0	ND	3.0

Surrogate % Recovery

Bromochloromethane	106	96
1-Chloro,2-Bromopropane	110	144
1,4-Dichlorobutane	108	78

Concentrations reported as ND were not detected at or above the reporting limit.

LOG NUMBER: 2680
 DATE SAMPLED: 11/16/92
 DATE RECEIVED: 11/16/92
 DATE EXTRACTED: 11/19/92
 DATE ANALYZED: 12/11/92
 DATE REPORTED: 12/16/92
 PAGE: Five

Sample Type: Water

<u>Method and Constituent:</u>	<u>Units</u>	<u>R&A/P #11-025</u>		<u>Method Blank</u>	
		<u>Concen- tration</u>	<u>Reporting Limit</u>	<u>Concen- tration</u>	<u>Reporting Limit</u>
EPA Method 625:					
N-Nitrosodimethylamine	ug/l	ND	10	ND	10
Phenol	ug/l	ND	10	ND	10
Bis (-2-Chloroethyl) ether	ug/l	ND	10	ND	10
2-Chlorophenol	ug/l	ND	10	ND	10
1,3-Dichlorobenzene	ug/l	ND	10	ND	10
1,4-Dichlorobenzene	ug/l	ND	10	ND	10
1,2-Dichlorobenzene	ug/l	ND	10	ND	10
N-Nitroso-Di-N- Propylamine	ug/l	ND	10	ND	10
Hexachloroethane	ug/l	ND	10	ND	10
Nitrobenzene	ug/l	ND	10	ND	10
Isophorone	ug/l	ND	10	ND	10
2-Nitrophenol	ug/l	ND	10	ND	10
2,4-Dimethylphenol	ug/l	ND	10	ND	10
Bis(-2-Chloroethoxy) Methane	ug/l	ND	10	ND	10
2,4-Dichlorophenol	ug/l	ND	10	ND	10
1,2,4-Trichlorobenzene	ug/l	ND	10	ND	10
Naphthalene	ug/l	ND	10	ND	10

Concentrations reported as ND were not detected at or above the reporting limit.

LOG NUMBER: 2680
 DATE SAMPLED: 11/16/92
 DATE RECEIVED: 11/16/92
 DATE EXTRACTED: 11/19/92
 DATE ANALYZED: 12/11/92
 DATE REPORTED: 12/16/92
 PAGE: Six

Sample Type: Water

<u>Method and Constituent</u>	<u>Units</u>	<u>R&A/P #11-025</u>		<u>Method Blank</u>	
		<u>Concen- tration</u>	<u>Reporting Limit</u>	<u>Concen- tration</u>	<u>Reporting Limit</u>
EPA Method 625 (Continued):					
Hexachlorobutadiene	ug/l	ND	10	ND	10
4-Chloro-3-Methyl- phenol	ug/l	ND	10	ND	10
Hexachlorocyclo- pentadiene	ug/l	ND	10	ND	10
2,4,6-Trichlorophenol	ug/l	ND	10	ND	10
2-Chloronaphthalene	ug/l	ND	10	ND	10
Dimethyl Phthalate	ug/l	ND	10	ND	10
Acenaphthylene	ug/l	ND	10	ND	10
Acenaphthene	ug/l	ND	10	ND	10
2,4-Dinitrophenol	ug/l	ND	10	ND	10
4-Nitrophenol	ug/l	ND	10	ND	10
2,4-Dinitrotoluene	ug/l	ND	10	ND	10
2,6-Dinitrotoluene	ug/l	ND	10	ND	10
Diethylphthalate	ug/l	ND	10	ND	10
4-Chlorophenylphenyl Ether	ug/l	ND	10	ND	10
Fluorene	ug/l	ND	10	ND	10
N-Nitrosodiphenylamine	ug/l	ND	10	ND	10
4-Bromophenylphenyl Ether	ug/l	ND	10	ND	10
Hexachlorobenzene	ug/l	ND	10	ND	10
Pentachlorophenol	ug/l	ND	10	ND	10
Phenanthrene	ug/l	ND	10	ND	10
Anthracene	ug/l	ND	10	ND	10

Concentrations reported as ND were not detected at or above the reporting limit.

LOG NUMBER: 2680
 DATE SAMPLED: 11/16/92
 DATE RECEIVED: 11/16/92
 DATE EXTRACTED: 11/19/92
 DATE ANALYZED: 12/11/92
 DATE REPORTED: 12/16/92
 PAGE: Seven

Sample Type: Water

Method and Constituent:	Units	R&A/P #11-025		Method Blank	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit
EPA Method 625 (Continued):					
Di-N-Butylphthalate	ug/l	ND	10	ND	10
Fluoranthene	ug/l	ND	10	ND	10
Benzidine	ug/l	ND	10	ND	10
Pyrene	ug/l	ND	10	ND	10
Butylbenzylphthalate	ug/l	ND	10	ND	10
3,3'-Dichlorobenzidine	ug/l	ND	10	ND	10
Benzo(a)Anthracene	ug/l	ND	10	ND	10
Bis(2-Ethylhexyl) Phthalate	ug/l	ND	10	ND	10
Chrysene	ug/l	ND	10	ND	10
Di-N-Octyl Phthalate	ug/l	ND	10	ND	10
Benzo(b)Fluoranthene	ug/l	ND	10	ND	10
Benzo(k)Fluoranthene	ug/l	ND	10	ND	10
Benzo(a)Pyrene	ug/l	ND	10	ND	10
Indeno(1,2,3-cd)Pyrene	ug/l	ND	10	ND	10
Dibenzo(a,h)Anthracene	ug/l	ND	10	ND	10
Benzo(g,h,i)Perylene	ug/l	ND	10	ND	10

Surrogate % Recovery:

Pentafluorophenol	77	80
4-Fluoroaniline	56	56
Decafluorobiphenyl	104	108

Concentrations reported as ND were not detected at or above the reporting limit.

LOG NUMBER: 2680
 DATE SAMPLED: 11/16/92
 DATE RECEIVED: 11/16/92
 DATE EXTRACTED: 11/18/92 and 11/19/92
 DATE ANALYZED: 11/18/92, 11/19/92 and 11/24/92
 DATE REPORTED: 12/16/92
 PAGE: Eight

Sample Type: Water

Method and Constituent:	Units	R&A/P #11-025		Method Blank		QC Summary	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit	% Recovery	% RPD
EPA Method 206.2: Arsenic	mg/l	ND	0.0050	ND	0.0050	90	*
EPA Method 213.1: Cadmium	mg/l	ND	0.010	ND	0.010	94	*
EPA Method 218.1: Chromium	mg/l	ND	0.050	ND	0.050	96	1.0
EPA Method 220.1: Copper	mg/l	ND	0.20	ND	0.20	94	*
EPA Method 239.1: Lead	mg/l	ND	0.10	ND	0.10	92	*
EPA Method 242.1: Mercury	mg/l	ND	0.0010	ND	0.0010	94	*
EPA Method 249.1: Nickel	mg/l	ND	0.30	ND	0.30	93	*
EPA Method 272.1: Silver	mg/l	ND	0.010	ND	0.010	93	*
EPA Method 289.1: Zinc	mg/l	ND	0.050	ND	0.050	91	2.4

Concentrations reported as ND were not detected at or above the reporting limit.

* The RPD is not reportable since the sample prepared in duplicate was not detectable.

LOG NUMBER: 2680
 DATE SAMPLED: 11/16/92
 DATE RECEIVED: 11/16/92
 DATE ANALYZED: 11/30/92
 DATE REPORTED: 12/16/92
 PAGE: Nine

Sample Type: Water

Method and Constituent:	R&A/P #11-025		QC Summary		
	Units	Concen- tration	Reporting Limit	% Recovery	% RPD
EPA Method 335.2: Cyanide	mg/l	ND	0.020	97	< 1

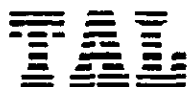
Concentrations reported as ND were not detected at or above the reporting limit.

Trace Analysis Laboratory, Inc.

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LOG NUMBER: 2977A
 DATE SAMPLED: 02/25/93 and 02/23/93
 DATE RECEIVED: 02/26/93
 DATE ANALYZED: 03/08/93
 DATE REPORTED: 03/16/93

CUSTOMER: Water Pollution Control Plant
 REQUESTER: John Camp
 PROJECT: City of San Leandro, Samples received 02/26/93

Sample Type: Water

Method and Constituent:	Units	R&A/P #2-041		Method Blank	
		Concentration	Reporting Limit	Concentration	Reporting Limit
EPA Method 624:					
Chloromethane	ug/l	ND	10	ND	10
Bromomethane	ug/l	ND	2.0	ND	2.0
Vinyl Chloride	ug/l	ND	10	ND	10
Chloroethane	ug/l	ND	2.0	ND	2.0
Methylene Chloride	ug/l	ND	10	ND	10
Trichlorofluoromethane	ug/l	ND	2.0	ND	2.0
1,1-Dichloroethene	ug/l	ND	2.0	ND	2.0
1,1-Dichloroethane	ug/l	ND	2.0	ND	2.0
Trans-1,2-Dichloroethene	ug/l	ND	2.0	ND	2.0
Chloroform	ug/l	29	2.0	ND	2.0
1,2-Dichloroethane	ug/l	ND	2.0	ND	2.0
1,1,1-Trichloroethane	ug/l	ND	2.0	ND	2.0
Carbon Tetrachloride	ug/l	ND	2.0	ND	2.0
Bromodichloromethane	ug/l	ND	2.0	ND	2.0
1,2-Dichloropropane	ug/l	ND	2.0	ND	2.0
Trans-1,3-Dichloropropene	ug/l	ND	2.0	ND	2.0
1,1,2-Trichloroethane	ug/l	ND	2.0	ND	2.0
Trichloroethene	ug/l	ND	2.0	ND	2.0
Benzene	ug/l	ND	2.0	ND	2.0

Concentrations reported as ND were not detected at or above the reporting limit.

LOG NUMBER: 2977A
 DATE SAMPLED: 02/25/93 and 02/23/93
 DATE RECEIVED: 02/26/93
 DATE ANALYZED: 03/08/93
 DATE REPORTED: 03/16/93
 PAGE: Two

Sample Type: Water

<u>Method and Constituent</u>	<u>Units</u>	<u>R&A/P #2-041</u>		<u>Method Blank</u>	
		<u>Concen- tration</u>	<u>Reporting Limit</u>	<u>Concen- tration</u>	<u>Reporting Limit</u>
EPA Method 624 (Continued):					
2-Chloroethylvinyl Ether	ug/l	ND	10	ND	10
Dibromochloromethane	ug/l	ND	2.0	ND	2.0
Cis-1,3-Dichloropropene	ug/l	ND	2.0	ND	2.0
Bromoform	ug/l	ND	2.0	ND	2.0
1,1,2,2-Tetrachloroethane	ug/l	ND	3.0	ND	3.0
Tetrachloroethene	ug/l	ND	2.0	ND	2.0
Toluene	ug/l	ND	2.0	ND	2.0
Chlorobenzene	ug/l	ND	2.0	ND	2.0
Ethylbenzene	ug/l	ND	2.0	ND	2.0
1,3-Dichlorobenzene	ug/l	ND	3.0	ND	3.0
1,2-Dichlorobenzene	ug/l	ND	3.0	ND	3.0
1,4-Dichlorobenzene	ug/l	ND	3.0	ND	3.0

Surrogate % Recovery

Bromochloromethane	100
1-Chloro,2-Bromopropane	92
1,4-Dichlorobutane	94

Concentrations reported as ND were not detected at or above the reporting limit.

LOG NUMBER: 2977
 DATE SAMPLED: 02/25/93
 DATE RECEIVED: 02/26/93
 DATE EXTRACTED: 03/03/93
 DATE ANALYZED: 03/24/93
 DATE REPORTED: 03/25/93
 PAGE: Three

Sample Type: Water

Method and Constituent:	Units	R&A/P #2-041		Method Blank	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit
EPA Method 608:					
Aldrin	ug/l	ND	0.10	ND	0.10
Alpha-BHC	ug/l	ND	0.10	ND	0.10
Beta-BHC	ug/l	ND	0.10	ND	0.10
Delta-BHC	ug/l	ND	0.10	ND	0.10
Gamma-BHC (Lindane)	ug/l	ND	0.10	ND	0.10
Chlordane	ug/l	ND	0.10	ND	0.10
4,4'-DDD	ug/l	ND	0.10	ND	0.10
4,4'-DDE	ug/l	ND	0.10	ND	0.10
4,4'-DDT	ug/l	ND	0.10	ND	0.10
Dieldrin	ug/l	ND	0.10	ND	0.10
Endosulfan I	ug/l	ND	0.10	ND	0.10
Endosulfan II	ug/l	ND	0.10	ND	0.10
Endosulfan Sulfate	ug/l	ND	0.10	ND	0.10
Endrin	ug/l	ND	0.10	ND	0.10
Endrin Aldehyde	ug/l	ND	0.10	ND	0.10
Heptachlor	ug/l	ND	0.10	ND	0.10
Heptachlor Epoxide	ug/l	ND	0.10	ND	0.10
Methoxychlor	ug/l	ND	0.10	ND	0.10
Toxaphene	ug/l	ND	0.10	ND	0.10

Concentrations reported as ND were not detected at or above the reporting limit.

LOG NUMBER: 2977
 DATE SAMPLED: 02/25/93
 DATE RECEIVED: 02/26/93
 DATE EXTRACTED: 03/03/93
 DATE ANALYZED: 03/24/93
 DATE REPORTED: 03/25/93
 PAGE: Four

Sample Type: Water

Method and Constituent:	Units	R&A/P #2-041		Method Blank	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit
EPA Method 608 (Continued):					
Aroclor 1016	ug/l	ND	0.16	ND	0.16
Aroclor 1221	ug/l	ND	0.16	ND	0.16
Aroclor 1232	ug/l	ND	0.16	ND	0.16
Aroclor 1242	ug/l	ND	0.16	ND	0.16
Aroclor 1248	ug/l	ND	0.16	ND	0.16
Aroclor 1254	ug/l	ND	0.16	ND	0.16
Aroclor 1260	ug/l	ND	0.16	ND	0.16

QC Summary:

% Recovery: 135
 % RPD: 6.1

Concentrations reported as ND were not detected at or above the reporting limit.

LOG NUMBER: 2977
 DATE SAMPLED: 02/25/93
 DATE RECEIVED: 02/26/93
 DATE EXTRACTED: 03/03/93
 DATE ANALYZED: 03/09/93
 DATE REPORTED: 03/16/93
 PAGE: Five

Sample Type: Water

Method and Constituent:	Units	R&A/P #2-041		Method Blank	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit
EPA Method 625:					
N-Nitrosodimethylamine	ug/l	ND	10	ND	10
Phenol	ug/l	ND	10	ND	10
Bis (-2-Chloroethyl) ether	ug/l	ND	10	ND	10
2-Chlorophenol	ug/l	ND	10	ND	10
1,3-Dichlorobenzene	ug/l	ND	10	ND	10
1,4-Dichlorobenzene	ug/l	ND	10	ND	10
1,2-Dichlorobenzene	ug/l	ND	10	ND	10
N-Nitroso-Di-N- Propylamine	ug/l	ND	10	ND	10
Hexachloroethane	ug/l	ND	10	ND	10
Nitrobenzene	ug/l	ND	10	ND	10
Isophorone	ug/l	ND	10	ND	10
2-Nitrophenol	ug/l	ND	10	ND	10
2,4-Dimethylphenol	ug/l	ND	10	ND	10
Bis(-2-Chloroethoxy) Methane	ug/l	ND	10	ND	10
2,4-Dichlorophenol	ug/l	ND	10	ND	10
1,2,4-Trichlorobenzene	ug/l	ND	10	ND	10
Naphthalene	ug/l	ND	10	ND	10

Concentrations reported as ND were not detected at or above the reporting limit.

LOG NUMBER: 2977
 DATE SAMPLED: 02/25/93
 DATE RECEIVED: 02/26/93
 DATE EXTRACTED: 03/03/93
 DATE ANALYZED: 03/09/93
 DATE REPORTED: 03/16/93
 PAGE: Six

Sample Type: Water

Method and Constituent	Units	R&A/P #2-041		Method Blank	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit
EPA Method 625 (Continued):					
Hexachlorobutadiene	ug/l	ND	10	ND	10
4-Chloro-3-Methyl- phenol	ug/l	ND	20	ND	20
Hexachlorocyclo- pentadiene	ug/l	ND	10	ND	10
2,4,6-Trichlorophenol	ug/l	ND	10	ND	10
2-Chloronaphthalene	ug/l	ND	10	ND	10
Dimethyl Phthalate	ug/l	ND	10	ND	10
Acenaphthylene	ug/l	ND	10	ND	10
Acenaphthene	ug/l	ND	10	ND	10
2,4-Dinitrophenol	ug/l	ND	50	ND	50
4-Nitrophenol	ug/l	ND	50	ND	50
2,4-Dinitrotoluene	ug/l	ND	10	ND	10
2,6-Dinitrotoluene	ug/l	ND	10	ND	10
Diethylphthalate	ug/l	ND	10	ND	10
4-Chlorophenylphenyl Ether	ug/l	ND	10	ND	10
Fluorene	ug/l	ND	10	ND	10
N-Nitrosodiphenylamine	ug/l	ND	10	ND	10
4-Bromophenylphenyl Ether	ug/l	ND	10	ND	10
Hexachlorobenzene	ug/l	ND	10	ND	10
Pentachlorophenol	ug/l	ND	50	ND	50
Phenanthrene	ug/l	ND	10	ND	10
Anthracene	ug/l	ND	10	ND	10

Concentrations reported as ND were not detected at or above the reporting limit.

LOG NUMBER: 2977
 DATE SAMPLED: 02/25/93
 DATE RECEIVED: 02/26/92
 DATE EXTRACTED: 03/03/93
 DATE ANALYZED: 03/09/93
 DATE REPORTED: 03/16/93
 PAGE: Seven

Sample Type: Water

<u>Method and Constituent:</u>	<u>Units</u>	<u>R&A/P #2-041</u>		<u>Method Blank</u>	
		<u>Concen- tration</u>	<u>Reporting Limit</u>	<u>Concen- tration</u>	<u>Reporting Limit</u>
EPA Method 625 (Continued):					
Di-N-Butylphthalate	ug/l	ND	10	ND	10
Fluoranthene	ug/l	ND	10	ND	10
Benzidine	ug/l	ND	10	ND	10
Pyrene	ug/l	ND	10	ND	10
Butylbenzylphthalate	ug/l	ND	10	ND	10
3,3'-Dichlorobenzidine	ug/l	ND	20	ND	20
Benzo(a)Anthracene	ug/l	ND	10	ND	10
Bis(2-Ethylhexyl) Phthalate	ug/l	ND	10	ND	10
Chrysene	ug/l	ND	10	ND	10
Di-N-Octyl Phthalate	ug/l	ND	10	ND	10
Benzo(b)Fluoranthene	ug/l	ND	10	ND	10
Benzo(k)Fluoranthene	ug/l	ND	10	ND	10
Benzo(a)Pyrene	ug/l	ND	10	ND	10
Indeno(1,2,3-cd)Pyrene	ug/l	ND	10	ND	10
Dibenzo(a,h)Anthracene	ug/l	ND	10	ND	10
Benzo(g,h,i)Perylene	ug/l	ND	10	ND	10

Surrogate % Recovery:

2 Fluorophenol	122	98
Phenol-d6	109	95
Nitrobenzene d5	101	80
2-Fluorobiphenyl	113	108
2,4,6 Tribromophenol	80	30
p-Terphenyl-d14	115	105

Concentrations reported as ND were not detected at or above the reporting limit.

LOG NUMBER: 2977
 DATE SAMPLED: 02/25/93
 DATE RECEIVED: 02/26/93
 DATE EXTRACTED: 03/03/93 and 03/04/93
 DATE ANALYZED: 03/04/93 and 03/11/93
 DATE REPORTED: 03/16/93
 PAGE: Eight

Sample Type: Water

Method and Constituent:	Units	R&A/P #2-041		Method Blank		QC Summary	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit	% Recovery	% RPD
EPA Method 7060: Arsenic	mg/l	ND	0.0050	ND	0.0050	113	*
EPA Method 7130: Cadmium	mg/l	ND	0.010	ND	0.010	105	*
EPA Method 7190: Chromium	mg/l	ND	0.050	ND	0.050	95	*
EPA Method 7210: Copper	mg/l	ND	0.020	ND	0.020	100	*
EPA Method 7420: Lead	mg/l	ND	0.10	ND	0.10	90	*
EPA Method 7470: Mercury	mg/l	ND	0.0010	ND	0.0010	91	*
EPA Method 7520: Nickel	mg/l	ND	0.30	ND	0.30	89	*
EPA Method 7760: Silver	mg/l	<i>See LOH # 2977R</i> 0.053 0.011		ND	0.011	86	18
EPA Method 7950: Zinc	mg/l	ND	0.050	ND	0.050	102	*

Concentrations reported as ND were not detected at or above the reporting limit.


* The RPD is not reportable since the sample prepared in duplicate was not detectable.

LOG NUMBER: 2977
 DATE SAMPLED: 02/25/93
 DATE RECEIVED: 02/26/93
 DATE ANALYZED: 03/05/93
 DATE REPORTED: 03/16/93
 PAGE: Nine

Sample Type: Water

Method and Constituent:	Units	R&A/P #2-041		Method Blank		QC Summary	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit	% Recovery	% RPD
EPA Method 335.1: Cyanide	mg/l	ND	0.02	ND	0.02	99	< 1

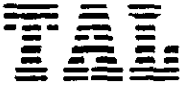
Concentrations reported as ND were not detected at or above the reporting limit.


 Louis W. DuPuis
 Quality Assurance/Quality Control Manager

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LOG NUMBER: 2977R
DATE SAMPLED: 02/25/93
DATE RECEIVED: 02/26/93
DATE EXTRACTED: 03/22/93
DATE ANALYZED: 03/22/93
DATE REPORTED: 03/26/93

CUSTOMER: Water Pollution Control Plant
REQUESTER: John Camp
PROJECT: City of San Leandro, Samples Received 02/26/93

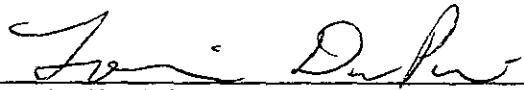
Sample Type: Water

Method and Constituent:	Units	R&A/P #2-041		Method Blank		QC Summary	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit	% Recovery	% RPD
EPA Method 7760: Silver	mg/l	ND	0.011	ND	0.011	96	*

Concentrations reported as ND were not detected at or above the reporting limit.

* The RPD is not reportable since the sample prepared in duplicate was not detectable.

This result is based on a new digestion and analysis of the sample. The result of the original analysis was 0.053 mg/l of Silver. There is no information in our documentation of these analyses that indicates an error or explains the variation in results.


Louis W. DuPuis
Quality Assurance/Quality Control Manager