RUST ENVIRONMENT & INFRASTRUCTURE

RUST Environment & Infrastructure Inc.
12 Metro Park Road
Albany, NY 12205
Tel. (518) 458-1313 • FAX (518) 458-2472

November 4, 1994

Mr. Barney M. Chan
Hazardous Materials Specialist
Department of Environmental Health
1131 Harbor Bay Parkway, Room 250
Alameda, California 94502

Subject: Former American National Can Company Facility
Oakland, California

Dear Mr. Chan:

Rust Environment & Infrastructure, Inc. (RUST) has completed a fourteenth round of quarterly groundwater monitoring for the subject site, the tenth round following the revised groundwater monitoring plan (dated April 27, 1992). This round of monitoring was conducted on October 10, 1994.

Several monitoring wells were abandoned under a permit from the Alameda County Flood Control District in March, 1994, due to site demolition activities occurring at the site at that time. As a result, five wells that were included in the April 27, 1992 groundwater monitoring program (MW-1, MW-18, MW-19, MW-20 and MW-21) could not be sampled. Monitoring well MW-8 also was not sampled as it could not be located following the completion of site demolition activities. Monitoring well GW-2R, the replacement well for formerly abandoned well GW-2, also was not sampled since it had a layer of floating product.

To augment this round of sampling, monitoring well MW-4 in Area 3 was sampled as a replacement for MW-1. Also, the sample from well MW-6 was analyzed for semi-volatile organic compounds. Groundwater samples from the other monitoring wells were collected and analyzed in accordance with the revised monitoring plan.

Analytical results obtained from this round of groundwater monitoring do not reveal any remarkable changes from previous sampling events.

With this letter, RUST is forwarding detailed laboratory analytical report of the results obtained during this quarterly monitoring event. Table 1 is a summary of groundwater levels and product thickness measurements recorded October 12, 1994. Plate 19 is a groundwater contour map of these groundwater elevation measurements. Due to the reduced number of monitoring points that were available to measure groundwater elevations, much of the contouring has been

inferred (dashed), based on previous contouring. Table 2 provides a summary of analytical results from groundwater samples.

If you have any questions, please call me.

Very truly yours,

Edward W. Alusow

Edward W. Alusow
Senior Project Manager

Enclosures

cc: J. Moran, Esq., ANC
L. Feldman, SFBRWQCB
R. Creps, PES
J. Kessler, High Street Assoc.
J. Renauer, K Mart

H:\WORD\WOH\DEHCHAN.DOC

TABLE 1
AMERICAN NATIONAL CAN COMPANY
FORMER OAKLAND, CALIFORNIA, FACILITY
Summary of Water Level Measurements

WELL NO.	M.P. EL.	3/18/94 DEPTH TO PRODUCT	3/18/94 DEPTH TO WATER		3/18/94 W.T. EL.	7/12/94 DEPTH TO PRODUCT	7/12/94 DEPTH TO WATER	7/12/94 W.T. EL.	10/12/94 DEPTH TO PRODUCT	10/12/94 DEPTH TO WATER	10/12/94 W.T. EL.	DEPTH TO PRODUCT	DEPTH TO WATER	W.T. EL.
MW-1	15.47		11.50		3.97	*Decommissioned*			*Decommissioned*					
MW-2	14.86		9.11		5.75	10.51	10.52	4.35	12.19	12.30	2.65			
MW-3	14.56	8.24	8.26		6.32	10.20	10.24	4.35	10.71	10.73	3.85			
MW-4	15.27		11.07		4.20		12.39	2.88		12.73	2.54			
MW-5	14.73	10.59	10.60		4.14	11.87	12.25	2.80	12.16	12.18	2.57			
MW-6	13.24		9.50		3.74		10.77	2.47		10.98	2.26			
MW-7	16.20		12.13		4.07		13.29	2.91		13.60	2.60			
MW-8	12.90		9.17		3.73	*Not Accessible*			*Not Accessible*					
MW-9	11.69		8.80		2.89		10.00	1.69		10.01	1.68			
MW-10	13.03		9.07		3.96	*Not Accessible*			*Not Accessible*					
MW-11	14.49		9.80		4.69		11.10	3.39		11.46	3.03			
MW-12	16.81	*Not Accessible*				*Decommissioned*			*Decommissioned*					
MW-13	18.31		9.11		9.20	*Not Accessible*				9.43	8.88			
MW-14	12.00		8.97		3.03		10.18	1.82		10.90	1.10			
MW-15	17.88	*Not Accessible*				*Not Accessible*				12.48	5.40			
MW-16	12.26		9.23	**	3.03	*Decommissioned*			*Decommissioned*					
MW-17	9.09		4.63		4.46	*Decommissioned*			*Decommissioned*					
MW-18	13.10		9.08		4.02	*Decommissioned*			*Decommissioned*					
MW-19	13.12		9.13		3.99	*Decommissioned*			*Decommissioned*					
MW-20	13.14	*Taken 3/22/94*	9.10		4.04	*Decommissioned*			*Decommissioned*					
MW-21	12.86		8.71		4.15	*Decommissioned*			*Decommissioned*					
TW-1	17.76	12.68	12.71		5.07	*Not Accessible*				14.60	3.16			
GW-1	15.35	12.06	12.07		3.29	*Decommissioned*			*Decommissioned*					
GW-1R	15.04	*Installed March 23, 1994*			- -		11.95	3.09		12.85	2.19			
GW-2	13.10		* 9.59		3.51	*Decommissioned*			*Decommissioned*					
GW-2R	13.25	*Installed March 23, 1994*			- -	10.66	12.94	2.20	10.98	11.28	2.22			
GW-3	11.55		8.14		3.41	*Decommissioned*			*Decommissioned*					
GW-4	11.70		9.18		2.52		9.57	2.13		9.95	1.75			
GW-5	17.72	*Not Accessible*					7.96	9.76		8.64	9.08			
GW-6	19.78	*Not Accessible*				*Not Accessible*			*Not Accessible*					

* Indicates a thin film (<0.01-feet thick) of product was detected on the water surface with an oil/water interface probe.
All elevations (EL.) are expressed in feet above mean sea level.
Depths are measured in feet below the well measuring point (M.P.).
Estimated product specific gravity of 0.83 was used to calculate an adjusted depth to water in wells containing product.
** This groundwater elevation is much lower, relative to surrounding wells, than ever previously recorded. This anomaly may reflect a measurement error.

TABLE 2
AMERICAN NATIONAL CAN COMPANY
FORMER OAKLAND, CALIFORNIA, FACILITY

Summary of Quarterly Ground Water Analytical Results - October, 1994

ANALYSIS	AREA-2	AREA - 3			AREA - 4	
	TW-1	MW-4	MW-6	MW-7	MW-9	MW-14
Volatile Organics (EPA Method 8240)(ug/l)						
Dilution Factor	--	1.0	1.0	1.0	--	--
1,1-Dichloroethane	--	nd	**15**	nd	--	--
Benzene	--	**110**	nd	nd	--	--
Chlorobenzene	--	**32**	nd	nd	--	--
Ethylbenzene	--	**6**	nd	nd	--	--
Total Xylenes	--	**18**	nd	nd	--	--
1,4-Dichlorobenzene	--	**9**	nd	nd	--	--
1,2-Dichlorobenzene	--	**18**	nd	nd	--	--
Total	--	**193**	**15**	nd		
Total TICs	--	**0**	**0**	nd	--	--
Semi-Volatile Organics (EPA Method 8270)(ug/l)						
Dilution Factor	--	10.0	1.0	--	--	--
Total	--	nd	nd	--	--	--
Total TICs	--	**960 J**	**48 J**	--	--	--
Metals (EPA Method 6010A)(ug/l)		--	--	--	--	--
Nickel	nd	--	--	--	--	--
Zinc	**26.9**	--	--	--	--	--
TPH as Gasoline (EPA Methods5030/8015)(ug/l)	--	--	--	--	nd	nd
BTEX (EPA Methods 5030/8020)(ug/l)						
Benzene	--	--	--	--	nd	nd
Toluene	--	--	--	--	nd	nd
Ethylbenzene	--	--	--	--	nd	nd
Total Xylenes	--	--	--	--	nd	nd
TPH as Diesel (EPA Method 3510)(ug/l)	**47000**	**7900**	**75**	**120**	--	--
PCBs (EPA Method 8080)(ug/l)	--	nd	nd	nd	--	--

-- indicates compound was not analyzed for.
nd indicates compound was not detected.
J indicates compound was detected at an amount below the specified reporting limit. Consequently, the amount should be considered an approximate value.

Inchcape Testing Services
Anametrix Laboratories

1961 Concourse Drive
Suite E
San Jose, CA 95131
Tel: 408-432-8192
Fax: 408-432-8198

MR. WALTER HOWARD
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9410072
Date Received : 10/11/94
Project ID : 35195.101
Purchase Order: N/A

The following samples were received at Anametrix for analysis :

ANAMETRIX ID	CLIENT SAMPLE ID
9410072- 1	TW-1

This report is organized in sections according to the specific Anametrix laboratory group which performed the analysis(es) and generated the data.

The results contained within this report relate to only the sample(s) tested. Additionally, these data should be considered in their entirety and Anametrix cannot be responsible for the detachment, separation, or otherwise partial use of this report.

Anametrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234.

If you have any further questions or comments on this report, please call us as soon as possible. Thank you for using Anametrix.

Todd Deringer for
Susan Kraska Yeager
Laboratory Director

10-24-94
Date

This report consists of 12 pages.

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. WALTER HOWARD
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9410072
Date Received : 10/11/94
Project ID : 35195.101
Purchase Order: N/A
Department : GC
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9410072- 1	TW-1	WATER	10/10/94	TPHd

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. WALTER HOWARD
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9410072
Date Received : 10/11/94
Project ID : 35195.101
Purchase Order: N/A
Department : GC
Sub-Department: TPH

QA/QC SUMMARY :

- No QA/QC problems encountered for these samples.

Cheryl Balmer 10/17/94
Department Supervisor Date

C R Patel 10/17/94
Chemist Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS AS DIESEL
ANAMETRIX, INC. (408) 432-8192

Anametrix W.O.: 9410072
Matrix : WATER
Date Sampled : 10/10/94
Date Extracted: 10/12/94

Project Number : 35195.101
Date Released : 10/17/94
Instrument I.D.: HP9

Anametrix I.D.	Client I.D.	Date Analyzed	Reporting Limit (ug/L)	Amount Found (ug/L)	Surrogate %Rec
9410072-01	TW-1	10/14/94	1000	47000	102%
BO1211F9	METHOD BLANK	10/13/94	50	ND	95%

Note : Reporting limit is obtained by multiplying the dilution factor times 50 ug/L.
The surrogate recovery limits for o-terphenyl are 47-114%.

ND - Not detected at or above the practical quantitation limit for the method.
TPHd - Total Petroleum Hydrocarbons as C10-C28 is determined by GCFID following sample extraction by EPA Method 3510.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

CRPatel 10/17/94
Analyst Date

Cheryl Balmer 10/17/94
Supervisor Date

TOTAL EXTRACTABLE HYDROCARBON LABORATORY CONTROL SAMPLE REPORT
EPA METHOD 3510 WITH GC/FID
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : LAB CONTROL SAMPLE
Matrix : WATER
Date Sampled : N/A
Date Extracted: 10/12/94
Date Analyzed : 10/13/94

Anametrix I.D. : MO1211F9
Analyst : AP
Supervisor : CS
Date Released : 10/17/94
Instrument I.D.: HP9

COMPOUND	SPIKE AMT (ug/L)	LCS REC (ug/L)	% REC LCS	LCSD REC (ug/L)	% REC LCSD	RPD	% REC LIMITS
DIESEL	1250	1020	82%	1000	80%	-2%	38-96
SURROGATE			110%		110%		47-114

* Quality control limits established by Anametrix, Inc.

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. WALTER HOWARD
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9410072
Date Received : 10/11/94
Project ID : 35195.101
Purchase Order: N/A
Department : METALS
Sub-Department: METALS

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9410072- 1	TW-1	WATER	10/10/94	6010

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. WALTER HOWARD
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9410072
Date Received : 10/11/94
Project ID : 35195.101
Purchase Order: N/A
Department : METALS
Sub-Department: METALS

QA/QC SUMMARY :

- No QA/QC problems encountered for this sample.

Department Supervisor 10/21/94 Date

Chemist 10/21/94 Date

INCHCAPE TESTING SERVICES
ANAMETRIX LABORATORIES
(408) 432-8192

DATA REPORT

Anametrix Sample ID: **9410072-01**
Client Sample ID: **TW-1**
Client Project Number: **35195.101**
Matrix: **WATER**

Date Sampled: **10/10/94**
Analyst: SC
Supervisor: MJ

Analyte	Prep. Method	Analytical Method	Instr. ID	Date Prepared	Date Analyzed	Dil. Factor	Units	Reporting Limit	Results	Q
Nickel	3010A	6010A	ICP2	10/12/94	10/18/94	1	ug/L	40.0	**ND**	
Zinc	3010A	6010A	ICP2	10/12/94	10/18/94	1	ug/L	20.0	**26.9**	

COMMENTS:

INCHCAPE TESTING SERVICES
ANAMETRIX LABORATORIES
(408) 432-8192

METHOD BLANK REPORT

Anametrix Sample ID: **BO124WA**
Anametrix WO #: **9410072**
Client Project Number: **35195.101**
Matrix: **WATER**

Analyst: SL
Supervisor: MJ

Analyte	Prep. Method	Analytical Method	Instr. ID	Date Prepared	Date Analyzed	Dil. Factor	Units	Reporting Limit	Results	Q
Nickel	3010A	6010A	ICP2	10/12/94	10/18/94	1	ug/L	40.0	**ND**	
Zinc	3010A	6010A	ICP2	10/12/94	10/18/94	1	ug/L	20.0	**ND**	

COMMENTS:

INCHCAPE TESTING SERVICES
ANAMETRIX LABORATORIES
(408) 432-8192

LABORATORY CONTROL SAMPLE REPORT

Lab. Control Sample ID: **LO124WA**
Anametrix WO #: **9410072**
Client Project Number: **35195.101**
Matrix: **WATER**

Analyst: SC
Supervisor: MW

Analyte	Prep. Method	Analytical Method	Instr. ID	Date Prepared	Date Analyzed	Dil. Factor	Units	Spike Amount	LCS Results	% Recovery	Q
Nickel	3010A	6010A	ICP2	10/12/94	10/18/94	1	ug/L	500	516	**103**	
Zinc	3010A	6010A	ICP2	10/12/94	10/18/94	1	ug/L	500	508	**102**	

COMMENTS:

Inchcape Testing Services
Anametrix Laboratories

SAMPLE RECEIVING CHECKLIST

WORKORDER NUMBER: 9410072 CLIENT PROJECT ID: 35195.101

COOLER

Shipping slip (airbill, etc.) present?	YES	NO	(N/A)
If YES, enter carrier name and airbill # :			
Custody Seal on the outside of cooler?	(YES)	NO	N/A
Condition: INTACT ✓ BROKEN ____			
Temperature of sample (s) within range?	(YES)	NO	N/A
List temperature of cooler (s): 5°C			

SAMPLES

Chain of custody seal present for each container?	YES	NO	(N/A)
Condition: INTACT ____ BROKEN ____			
Samples arrived within holding time?	(YES)	NO	N/A
Samples in proper containers for methods requested?	(YES)	NO	
Condition of containers: INTACT ✓ BROKEN ____			
If NO, were samples transferred to proper container? ____			
Were VOA containers received with zero headspace?	YES	NO	(N/A)
If NO, was it noted on the chain of custody? ____			
Were container labels complete? (ID, date, time preservative, etc.)	(YES)	NO	
Were samples preserved with the proper preservative?	(YES)	NO	N/A
If NO, was the proper preservative added at time of receipt? ____			
pH check of samples required at time of receipt?	(YES)	NO	
If YES, pH checked and recorded by: PGJ			
Sufficient amount of sample received for methods requested?	(YES)	NO	
If NO, has the client or lab project manager been notified? ____			
Field blanks received with sample batch? # of Sets: ____	YES	NO	(N/A)
Trip blanks received with sample batch? # of Sets: ____	YES	NO	(N/A)

CHAIN OF CUSTODY

Chain of custody received with samples?	(YES)	NO
Has it been filled out completely and in ink?	(YES)	NO
Sample ID's on chain of custody agree with container labels?	(YES)	NO
Number of containers indicated on chain of custody agree with number received?	(YES)	NO
Analysis methods clearly specified?	(YES)	NO
Sampling date and time indicated?	(YES)	NO
Proper signatures of sampler, courier, sample custodian in appropriate place? with time and date?	(YES)	NO
Turnaround time? REGULAR ✓ RUSH ____		

Any NO response and/or any "BROKEN" that was checked must be detailed in the Corrective Action Form.

Sample Custodian: PGJ Date: 10/11/94 Project Manager: KD Date: 10/12/94

400

Wahler Associates
1023 Corporation Way
P.O. Box 10023
Palo Alto, CA 94303
FAX: (415) 968-5365
(415) 968-6250

CHAIN OF CUSTODY FORM

Laboratory: Anametrix
Turnaround Time: Standard
Results To: Walter Howard
Mishelle Mason

Serial Number: 9410072 Page 1 of 1 (10/20)
WA Authorization:
Sheet 1 of 1
Samplers: Todd Murray, James Andrews
Chi Du
Recorder: Todd Murray (signature required)

Project: American National Can / RUST
Job Number: 35195.101
Project Manager: Mishelle Mason/Walter Howard
Date: 10/10/1994

AREA 2 SAMPLE

ITEM NO.	SAMPLE NUMBER	DATE AND TIME SAMPLED		MATRIX	# CONTAINERS & PRESERVATIVES						ANALYSIS REQUESTED / TYPE OF CONTAINER							COMMENTS
		Date	Time		UNPRESERVED	H_2SO_4	HNO_3	HCl			TPH-D	Metals: Ni, Zn						
1	TW-1	10/10/94	1310	H_2O	2		1				X	X						Metals are filtered and preserved w/ HNO_3 in the field.
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

MISCELLANEOUS

Number of Coolers	Type of Coolant
TWO	ICE

COMMENTS:

Area 2 Sample

Use DHS LUFT Detection Limits where applicable

LABORATORY COPY WHITE PROJECT COPY YELLOW FIELD or OFFICE COPY PINK

CHAIN OF CUSTODY RECORD

Relinquished by: (signature & affiliation)	Received by: (signature & affiliation)	Date/Time
James Andrews		10/11/94
Relinquished by: (signature & affiliation)	Received by: (signature & affiliation)	Date/Time
Relinquished by: (signature & affiliation)	Received by: (signature & affiliation)	Date/Time
Relinquished by: (signature & affiliation) 09:45 10/11/94	Received by: (signature & affiliation)	Date/Time
Dispatched by: (signature & affiliation) Date/Time	Received for lab by:	Date/Time 10/11/94 0945

Inchcape Testing Services
Anametrix Laboratories

1961 Concourse Drive
Suite E
San Jose, CA 95131
Tel: 408-432-8192
Fax: 408-432-8198

MR. WALTER HOWARD
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9410074
Date Received : 10/11/94
Project ID : 35195.101
Purchase Order: N/A

The following samples were received at Anametrix for analysis :

ANAMETRIX ID	CLIENT SAMPLE ID
9410074- 1	MW-4
9410074- 2	MW-6
9410074- 3	MW-7
9410074- 4	T. BLANK

This report is organized in sections according to the specific Anametrix laboratory group which performed the analysis(es) and generated the data.

The results contained within this report relate to only the sample(s) tested. Additionally, these data should be considered in their entirety and Anametrix cannot be responsible for the detachment, separation, or otherwise partial use of this report.

Anametrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234.

If you have any further questions or comments on this report, please call us as soon as possible. Thank you for using Anametrix.

Corinne Ham for
Susan Kraska Yeager
Laboratory Director

10/26/94
Date

This report consists of 40 pages.

ANAMETRIX REPORT DESCRIPTION
GCMS

Organic Analysis Data Sheets (OADS)

OADS forms contain tabulated results for target compounds. The OADS are grouped by method and, within each method, organized sequentially in order of increasing Anametrix ID number.

Tentatively Identified Compounds (TICs)

TIC forms contain tabulated results for non-target compounds detected in GC/MS analyses. TICs must be requested at the time samples are submitted at Anametrix. TIC forms immediately follow the OADS form for each sample. If TICs are requested but not found, then TIC forms will not be included with the report.

Surrogate Recovery Summary (SRS)

SRS forms contain quality assurance data. An SRS form will be printed for each method, if the method requires surrogate compounds. They will list surrogate percent recoveries for all samples and any method blanks. Any surrogate recovery outside the established limits will be flagged with an "*", and the total number of surrogates outside the limits will be listed in the column labelled "Total Out".

Matrix Spike Recovery Form (MSR)

MSR forms contain quality assurance data. They summarize percent recovery and relative percent difference information for matrix spikes and matrix spike duplicates. This information is a statement of both accuracy and precision. Any percent recovery or relative percent difference outside established limits will be flagged with an "*", and the total number outside the limits will be listed at the bottom of the page. Not all reports will contain an MSR form.

Qualifiers

Anametrix uses several data qualifiers (Q) in it's report forms. These qualifiers give additional information on the compounds reported. They should help a data reviewer to verify the integrity of the analytical results. The following is a list of qualifiers and their meanings:

- U - Indicates that the compound was analyzed for, but was not detected at or above the specified reporting limit.
- B - Indicates that the compound was detected in the associated method blank.
- J - Indicates that the compound was detected at an amount below the specified reporting limit. Consequently, the amount should be considered an approximate value. Tentatively identified compounds will always have a "J" qualifier because they are not included in the instrument calibration.
- E - Indicates that the amount reported exceeded the linear range of the instrument calibration.
- D - Indicates that the compound was detected in an Analysis performed at a secondary dilution.
- A - Indicates that the tentatively identified compound is a suspected aldol condensation product. This is common in EPA Method 8270 soil analyses.

Absence of a qualifier indicates that the compound was detected at a concentration at or above the specified reporting limit.

REPORTING CONVENTIONS

- Due to a size limitation in our data processing step, only the first eight (8) characters of your project ID and sample ID will be printed on the report forms. However, the report cover letter and report summary pages display up to twenty (20) characters of your project and sample IDs.
- Amounts reported are gross values, i.e., not corrected for method blank contamination.

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. WALTER HOWARD
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9410074
Date Received : 10/11/94
Project ID : 35195.101
Purchase Order: N/A
Department : GCMS
Sub-Department: GCMS

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9410074- 1	MW-4	WATER	10/10/94	8240
9410074- 2	MW-6	WATER	10/10/94	8240
9410074- 3	MW-7	WATER	10/10/94	8240
9410074- 4	T. BLANK	WATER	10/10/94	8240
9410074- 1	MW-4	WATER	10/10/94	8270
9410074- 2	MW-6	WATER	10/10/94	8270

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. WALTER HOWARD
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9410074
Date Received : 10/11/94
Project ID : 35195.101
Purchase Order: N/A
Department : GCMS
Sub-Department: gcms

QA/QC SUMMARY :

- No QA/QC problems encountered for EPA Method 8240.

David L. Scharberg 10/19/94
Department Supervisor Date

Taghi Memarzadeh 10/19/94
Chemist Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS AS DIESEL
ANAMETRIX, INC. (408) 432-8192

Anametrix W.O.: 9410074
Matrix : WATER
Date Sampled : 10/10/94
Date Extracted: 10/12/94

Project Number : 35195.101
Date Released : 10/17/94
Instrument I.D.: HP9

Anametrix I.D.	Client I.D.	Date Analyzed	Reporting Limit (ug/L)	Amount Found (ug/L)	Surrogate %Rec
9410074-01	MW-4	10/14/94	500	7900	90%
9410074-02	MW-6	10/13/94	50	75	102%
9410074-03	MW-7	10/13/94	50	120	113%
BO1211F9	METHOD BLANK	10/13/94	50	ND	95%

Note : Reporting limit is obtained by multiplying the dilution factor times 50 ug/L.
The surrogate recovery limits for o-terphenyl are 47-114%.

ND - Not detected at or above the practical quantitation limit for the method.
TPHd - Total Petroleum Hydrocarbons as C10-C28 is determined by GCFID following sample extraction by EPA Method 3510.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

P Patel 10/17/94
Analyst Date

Cheryl Balman 10/17/94
Supervisor Date

TOTAL EXTRACTABLE HYDROCARBON LABORATORY CONTROL SAMPLE REPORT
EPA METHOD 3510 WITH GC/FID
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : LAB CONTROL SAMPLE
Matrix : WATER
Date Sampled : N/A
Date Extracted: 10/12/94
Date Analyzed : 10/13/94

Anametrix I.D. : MO1211F9
Analyst : ARP.
Supervisor : cs
Date Released : 10/17/94
Instrument I.D.: HP9

COMPOUND	SPIKE AMT (ug/L)	LCS REC (ug/L)	% REC LCS	LCSD REC (ug/L)	% REC LCSD	RPD	% REC LIMITS
DIESEL	1250	1020	82%	1000	80%	-2%	38-96
SURROGATE			110%		110%		47-114

* Quality control limits established by Anametrix, Inc.

Inchcape Testing Services
Anametrix Laboratories

SAMPLE RECEIVING CHECKLIST

WORKORDER NUMBER: 9410074 CLIENT PROJECT ID: 35195.101

COOLER

Shipping slip (airbill, etc.) present?	YES	NO	(N/A)
If YES, enter carrier name and airbill # : ____			
Custody Seal on the outside of cooler?	(YES)	NO	N/A
Condition: INTACT ✓ BROKEN ____			
Temperature of sample (s) within range?	(YES)	NO	N/A
List temperature of cooler (s): 5°C, 4°C			

SAMPLES

Chain of custody seal present for each container?	YES	NO	(N/A)
Condition: INTACT ____ BROKEN ____			
Samples arrived within holding time?	(YES)	NO	N/A
Samples in proper containers for methods requested?	(YES)	NO	
Condition of containers: INTACT ✓ BROKEN ____			
If NO, were samples transferred to proper container? ____			
Were VOA containers received with zero headspace?	(YES)	NO	N/A
If NO, was it noted on the chain of custody? ____			
Were container labels complete? (ID, date, time preservative, etc.)	(YES)	NO	
Were samples preserved with the proper preservative?	(YES)	NO	N/A
If NO, was the proper preservative added at time of receipt? ____			
pH check of samples required at time of receipt?	YES	(NO)	
If YES, pH checked and recorded by: ____			
Sufficient amount of sample received for methods requested?	(YES)	NO	
If NO, has the client or lab project manager been notified? ____			
Field blanks received with sample batch? # of Sets: ____	YES	NO	(N/A)
Trip blanks received with sample batch? # of Sets: 1	(YES)	NO	N/A

CHAIN OF CUSTODY

Chain of custody received with samples?	(YES)	NO
Has it been filled out completely and in ink?	YES	(NO)
Sample ID's on chain of custody agree with container labels?	(YES)	NO
Number of containers indicated on chain of custody agree with number received?	YES	(NO)
Analysis methods clearly specified?	(YES)	NO
Sampling date and time indicated?	(YES)	NO
Proper signatures of sampler, courier, sample custodian in appropriate place? with time and date?	(YES)	NO
Turnaround time? REGULAR ✓ RUSH ____		

Any NO response and/or any "BROKEN" that was checked must be detailed in the Corrective Action Form.

Sample Custodian: [signature] Date: 10/1/94 Project Manager: KD Date: 10/26/94

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8080/PCBs
ANAMETRIX, INC. (408)432-8192

Project ID	: 35195.10	Anametrix ID	: 9410074-01
Sample ID	: MW-4	Analyst	: FR
Matrix	: WATER	Supervisor	:
Date Sampled	:10/10/94		
Date Extracted	:10/12/94		
Amount Extracted	: 1000.0 mL		
Date Analyzed	:10/21/94	Dilution Factor	: 1.0
Instrument ID	: HP22	Conc. Units	: ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
12674-11-2	Aroclor-1016	.50	ND	U
11104-28-2	Aroclor-1221	1.0	ND	U
11141-16-5	Aroclor-1232	.50	ND	U
53469-21-9	Aroclor-1242	.50	ND	U
12672-29-6	Aroclor-1248	.50	ND	U
11097-69-1	Aroclor-1254	.50	ND	U
11096-82-5	Aroclor-1260	.50	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8080/PCBs
ANAMETRIX, INC. (408)432-8192

Project ID	: 35195.10	Anametrix ID	: 9410074-02
Sample ID	: MW-6	Analyst	: FK
Matrix	: WATER	Supervisor	:
Date Sampled	:10/10/94		
Date Extracted	:10/12/94		
Amount Extracted	: 1000.0 mL		
Date Analyzed	:10/21/94	Dilution Factor	: 1.0
Instrument ID	: HP22	Conc. Units	: ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
12674-11-2	Aroclor-1016	.50	ND	U
11104-28-2	Aroclor-1221	1.0	ND	U
11141-16-5	Aroclor-1232	.50	ND	U
53469-21-9	Aroclor-1242	.50	ND	U
12672-29-6	Aroclor-1248	.50	ND	U
11097-69-1	Aroclor-1254	.50	ND	U
11096-82-5	Aroclor-1260	.50	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8080/PCBs
ANAMETRIX, INC. (408)432-8192

Project ID	: 35195.10	Anametrix ID	: 9410074-03
Sample ID	: MW-7	Analyst	: FL
Matrix	: WATER	Supervisor	:
Date Sampled	:10/10/94		
Date Extracted	:10/12/94		
Amount Extracted	: 1000.0 mL		
Date Analyzed	:10/21/94	Dilution Factor	: 1.0
Instrument ID	: HP22	Conc. Units	: ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
12674-11-2	Aroclor-1016	.50	ND	U
11104-28-2	Aroclor-1221	1.0	ND	U
11141-16-5	Aroclor-1232	.50	ND	U
53469-21-9	Aroclor-1242	.50	ND	U
12672-29-6	Aroclor-1248	.50	ND	U
11097-69-1	Aroclor-1254	.50	ND	U
11096-82-5	Aroclor-1260	.50	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8080/PCBs
ANAMETRIX, INC. (408)432-8192

Project ID	: 35195.10	Anametrix ID	: BO1211PE
Sample ID	: BLANK	Analyst	: FK
Matrix	: WATER	Supervisor	: RY
Date Sampled	: 0/ 0/ 0		
Date Extracted	:10/12/94		
Amount Extracted	: 1000.0 mL		
Date Analyzed	:10/21/94	Dilution Factor	: 1.0
Instrument ID	: HP22	Conc. Units	: UG/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
12674-11-2	Aroclor-1016	.50	ND	U
11104-28-2	Aroclor-1221	1.0	ND	U
11141-16-5	Aroclor-1232	.50	ND	U
53469-21-9	Aroclor-1242	.50	ND	U
12672-29-6	Aroclor-1248	.50	ND	U
11097-69-1	Aroclor-1254	.50	ND	U
11096-82-5	Aroclor-1260	.50	ND	U

SURROGATE RECOVERY SUMMARY -- EPA METHOD 8080/PCBs
ANAMETRIX, INC. (408)432-8192

Project ID : 35195.10
Matrix : LIQUID

Anametrix ID : 9410074
Analyst : FR
Supervisor : RY

	SAMPLE ID	SU1	SU2	SU3	SU4	SU5	SU6
1	BLANK	110	85				
2	LCS	119	88				
3	LCSD	120	88				
4	MW-4	57	76				
5	MW-6	57	80				
6	MW-7	72	79				
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

	QC LIMITS
SU1 = Decachlorobiphenyl	(34-135)
SU2 = Tetrachloro-m-xylene	(30-130)

* Values outside of Anametrix QC limits

LABORATORY CONTROL SPIKE RECOVERY FORM -- EPA METHOD 8080PCB
ANAMETRIX, INC. (408) 432-8192

Project ID	: 35195.101	Anametrix ID	: M/NO1211PE
Sample ID	: LCS/LCSD	Analyst	: FK
Matrix	: WATER	Supervisor	: DS
Date Sampled	: N/A	Volume ext.	: 1000 mL
Date Extracted	: 10/12/94	pH	: N/A
Date Analyzed	: 10/21/94	Final Vol.	: 10000 uL
Instrument ID	: HP22	Inj. Vol.	: 1 uL
Dilution	: NONE		

COMPOUND NAME	AMOUNT ADDED (ug/L)	AMOUNT FOUND (ug/L)	PERCENT RECOVERY	PERCENT LIMITS
Aroclor 1248	5.0	3.9	78	60-122
COMPOUND NAME	AMOUNT ADDED (ug/L)	AMOUNT FOUND (ug/L)	PERCENT RECOVERY	PERCENT LIMITS
Aroclor 1248	5.0	4.4	88	60-122
COMPOUND NAME	%RPD	RPD LIMITS	RECOVERY LIMITS	
Aroclor 1248	12	0-30	60-122	

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. WALTER HOWARD
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9410074
Date Received : 10/11/94
Project ID : 35195.101
Purchase Order: N/A
Department : GC
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9410074- 1	MW-4	WATER	10/10/94	TPHd
9410074- 2	MW-6	WATER	10/10/94	TPHd
9410074- 3	MW-7	WATER	10/10/94	TPHd

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. WALTER HOWARD
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9410074
Date Received : 10/11/94
Project ID : 35195.101
Purchase Order: N/A
Department : GC
Sub-Department: TPH

QA/QC SUMMARY :

- No QA/QC problems encountered for these samples.

Cheryl Balmer 10/17/94
Department Supervisor Date

Chemist 10/17/94
Date

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8240
ANAMETRIX, INC. (408)432-8192

Project ID : 35195.10
Sample ID : MW-4
Matrix : WATER
Date Sampled :10/10/94
Date Analyzed :10/18/94
Instrument ID : MSD2

Anametrix ID : 9410074-01
Analyst : TM
Supervisor : DCS

Dilution Factor : 1.0
Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
74-87-3	Chloromethane	10.	ND	U
75-01-4	Vinyl chloride	10.	ND	U
74-83-9	Bromomethane	10.	ND	U
75-00-3	Chloroethane	10.	ND	U
75-69-4	Trichlorofluoromethane	5.	ND	U
75-35-4	1,1-Dichloroethene	5.	ND	U
76-13-1	Trichlorotrifluoroethane	5.	ND	U
67-64-1	Acetone	20.	ND	U
75-15-0	Carbon disulfide	5.	ND	U
75-09-2	Methylene chloride	5.	ND	U
156-60-5	Trans-1,2-dichloroethene	5.	ND	U
75-34-3	1,1-Dichloroethane	5.	ND	U
156-59-2	Cis-1,2-dichloroethene	5.	ND	U
78-93-3	2-Butanone	20.	ND	U
67-66-3	Chloroform	5.	ND	U
71-55-6	1,1,1-Trichloroethane	5.	ND	U
56-23-5	Carbon tetrachloride	5.	ND	U
108-05-4	Vinyl acetate	10.	ND	U
71-43-2	Benzene	5.	110.	
107-06-2	1,2-Dichloroethane	5.	ND	U
79-01-6	Trichloroethene	5.	ND	U
78-87-5	1,2-Dichloropropane	5.	ND	U
75-27-4	Bromodichloromethane	5.	ND	U
10061-01-5	Cis-1,3-dichloropropene	5.	ND	U
108-10-1	4-Methyl-2-pentanone	10.	ND	U
108-88-3	Toluene	5.	ND	U
10061-02-6	Trans-1,3-dichloropropene	5.	ND	U
79-00-5	1,1,2-Trichloroethane	5.	ND	U
127-18-4	Tetrachloroethene	5.	ND	U
591-78-6	2-Hexanone	10.	ND	U
124-48-1	Dibromochloromethane	5.	ND	U
108-90-7	Chlorobenzene	5.	32.	
100-41-4	Ethylbenzene	5.	ND	U
1330-20-7	Xylene (Total)	5.	18.	
100-42-5	Styrene	5.	ND	U
75-25-2	Bromoform	5.	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	ND	U
541-73-1	1,3-Dichlorobenzene	5.	ND	U
106-46-7	1,4-Dichlorobenzene	5.	9.	
95-50-1	1,2-Dichlorobenzene	5.	18.	

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8240
ANAMETRIX, INC. (408)432-8192

Project ID : 35195.10
Sample ID : MW-6
Matrix : WATER
Date Sampled :10/10/94
Date Analyzed :10/18/94
Instrument ID : MSD2

Anametrix ID : 9410074-02
Analyst : TM
Supervisor : DC

Dilution Factor : 1.0
Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
74-87-3	Chloromethane	10.	ND	U
75-01-4	Vinyl chloride	10.	ND	U
74-83-9	Bromomethane	10.	ND	U
75-00-3	Chloroethane	10.	ND	U
75-69-4	Trichlorofluoromethane	5.	ND	U
75-35-4	1,1-Dichloroethene	5.	ND	U
76-13-1	Trichlorotrifluoroethane	5.	ND	U
67-64-1	Acetone	20.	ND	U
75-15-0	Carbon disulfide	5.	ND	U
75-09-2	Methylene chloride	5.	ND	U
156-60-5	Trans-1,2-dichloroethene	5.	ND	U
75-34-3	1,1-Dichloroethane	5.	15.	
156-59-2	Cis-1,2-dichloroethene	5.	ND	U
78-93-3	2-Butanone	20.	ND	U
67-66-3	Chloroform	5.	ND	U
71-55-6	1,1,1-Trichloroethane	5.	ND	U
56-23-5	Carbon tetrachloride	5.	ND	U
108-05-4	Vinyl acetate	10.	ND	U
71-43-2	Benzene	5.	ND	U
107-06-2	1,2-Dichloroethane	5.	ND	U
79-01-6	Trichloroethene	5.	ND	U
78-87-5	1,2-Dichloropropane	5.	ND	U
75-27-4	Bromodichloromethane	5.	ND	U
10061-01-5	Cis-1,3-dichloropropene	5.	ND	U
108-10-1	4-Methyl-2-pentanone	10.	ND	U
108-88-3	Toluene	5.	ND	U
10061-02-6	Trans-1,3-dichloropropene	5.	ND	U
79-00-5	1,1,2-Trichloroethane	5.	ND	U
127-18-4	Tetrachloroethene	5.	ND	U
591-78-6	2-Hexanone	10.	ND	U
124-48-1	Dibromochloromethane	5.	ND	U
108-90-7	Chlorobenzene	5.	ND	U
100-41-4	Ethylbenzene	5.	ND	U
1330-20-7	Xylene (Total)	5.	ND	U
100-42-5	Styrene	5.	ND	U
75-25-2	Bromoform	5.	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	ND	U
541-73-1	1,3-Dichlorobenzene	5.	ND	U
106-46-7	1,4-Dichlorobenzene	5.	ND	U
95-50-1	1,2-Dichlorobenzene	5.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8240
ANAMETRIX, INC. (408)432-8192

Project ID : 35195.10
Sample ID : MW-7
Matrix : WATER
Date Sampled :10/10/94
Date Analyzed :10/18/94
Instrument ID : MSD2

Anametrix ID : 9410074-03
Analyst : TM
Supervisor : DV

Dilution Factor : 1.0
Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
74-87-3	Chloromethane	10.	ND	U
75-01-4	Vinyl chloride	10.	ND	U
74-83-9	Bromomethane	10.	ND	U
75-00-3	Chloroethane	10.	ND	U
75-69-4	Trichlorofluoromethane	5.	ND	U
75-35-4	1,1-Dichloroethene	5.	ND	U
76-13-1	Trichlorotrifluoroethane	5.	ND	U
67-64-1	Acetone	20.	ND	U
75-15-0	Carbon disulfide	5.	ND	U
75-09-2	Methylene chloride	5.	ND	U
156-60-5	Trans-1,2-dichloroethene	5.	ND	U
75-34-3	1,1-Dichloroethane	5.	ND	U
156-59-2	Cis-1,2-dichloroethene	5.	ND	U
78-93-3	2-Butanone	20.	ND	U
67-66-3	Chloroform	5.	ND	U
71-55-6	1,1,1-Trichloroethane	5.	ND	U
56-23-5	Carbon tetrachloride	5.	ND	U
108-05-4	Vinyl acetate	10.	ND	U
71-43-2	Benzene	5.	ND	U
107-06-2	1,2-Dichloroethane	5.	ND	U
79-01-6	Trichloroethene	5.	ND	U
78-87-5	1,2-Dichloropropane	5.	ND	U
75-27-4	Bromodichloromethane	5.	ND	U
10061-01-5	Cis-1,3-dichloropropene	5.	ND	U
108-10-1	4-Methyl-2-pentanone	10.	ND	U
108-88-3	Toluene	5.	ND	U
10061-02-6	Trans-1,3-dichloropropene	5.	ND	U
79-00-5	1,1,2-Trichloroethane	5.	ND	U
127-18-4	Tetrachloroethene	5.	ND	U
591-78-6	2-Hexanone	10.	ND	U
124-48-1	Dibromochloromethane	5.	ND	U
108-90-7	Chlorobenzene	5.	ND	U
100-41-4	Ethylbenzene	5.	ND	U
1330-20-7	Xylene (Total)	5.	ND	U
100-42-5	Styrene	5.	ND	U
75-25-2	Bromoform	5.	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	ND	U
541-73-1	1,3-Dichlorobenzene	5.	ND	U
106-46-7	1,4-Dichlorobenzene	5.	ND	U
95-50-1	1,2-Dichlorobenzene	5.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8240
ANAMETRIX, INC. (408)432-8192

Project ID : 35195.10
Sample ID : T.BLANK
Matrix : WATER
Date Sampled :10/10/94
Date Analyzed :10/18/94
Instrument ID : MSD2

Anametrix ID : 9410074-04
Analyst : TM
Supervisor : DC

Dilution Factor : 1.0
Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
74-87-3	Chloromethane	10.	ND	U
75-01-4	Vinyl chloride	10.	ND	U
74-83-9	Bromomethane	10.	ND	U
75-00-3	Chloroethane	10.	ND	U
75-69-4	Trichlorofluoromethane	5.	ND	U
75-35-4	1,1-Dichloroethene	5.	ND	U
76-13-1	Trichlorotrifluoroethane	5.	ND	U
67-64-1	Acetone	20.	ND	U
75-15-0	Carbon disulfide	5.	ND	U
75-09-2	Methylene chloride	5.	ND	U
156-60-5	Trans-1,2-dichloroethene	5.	ND	U
75-34-3	1,1-Dichloroethane	5.	ND	U
156-59-2	Cis-1,2-dichloroethene	5.	ND	U
78-93-3	2-Butanone	20.	ND	U
67-66-3	Chloroform	5.	ND	U
71-55-6	1,1,1-Trichloroethane	5.	ND	U
56-23-5	Carbon tetrachloride	5.	ND	U
108-05-4	Vinyl acetate	10.	ND	U
71-43-2	Benzene	5.	ND	U
107-06-2	1,2-Dichloroethane	5.	ND	U
79-01-6	Trichloroethene	5.	ND	U
78-87-5	1,2-Dichloropropane	5.	ND	U
75-27-4	Bromodichloromethane	5.	ND	U
10061-01-5	Cis-1,3-dichloropropene	5.	ND	U
108-10-1	4-Methyl-2-pentanone	10.	ND	U
108-88-3	Toluene	5.	ND	U
10061-02-6	Trans-1,3-dichloropropene	5.	ND	U
79-00-5	1,1,2-Trichloroethane	5.	ND	U
127-18-4	Tetrachloroethene	5.	ND	U
591-78-6	2-Hexanone	10.	ND	U
124-48-1	Dibromochloromethane	5.	ND	U
108-90-7	Chlorobenzene	5.	ND	U
100-41-4	Ethylbenzene	5.	ND	U
1330-20-7	Xylene (Total)	5.	ND	U
100-42-5	Styrene	5.	ND	U
75-25-2	Bromoform	5.	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	ND	U
541-73-1	1,3-Dichlorobenzene	5.	ND	U
106-46-7	1,4-Dichlorobenzene	5.	ND	U
95-50-1	1,2-Dichlorobenzene	5.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8240
ANAMETRIX, INC. (408)432-8192

Project ID :
Sample ID : VBLKE4
Matrix : WATER
Date Sampled : 0/ 0/ 0
Date Analyzed :10/18/94
Instrument ID : MSD2

Anametrix ID : BO1803A2
Analyst : JM
Supervisor : DS

Dilution Factor : 1.0
Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
74-87-3	Chloromethane	10.	ND	U
75-01-4	Vinyl chloride	10.	ND	U
74-83-9	Bromomethane	10.	ND	U
75-00-3	Chloroethane	10.	ND	U
75-69-4	Trichlorofluoromethane	5.	ND	U
75-35-4	1,1-Dichloroethene	5.	ND	U
76-13-1	Trichlorotrifluoroethane	5.	ND	U
67-64-1	Acetone	20.	ND	U
75-15-0	Carbon disulfide	5.	ND	U
75-09-2	Methylene chloride	5.	ND	U
156-60-5	Trans-1,2-dichloroethene	5.	ND	U
75-34-3	1,1-Dichloroethane	5.	ND	U
156-59-2	Cis-1,2-dichloroethene	5.	ND	U
78-93-3	2-Butanone	20.	ND	U
67-66-3	Chloroform	5.	ND	U
71-55-6	1,1,1-Trichloroethane	5.	ND	U
56-23-5	Carbon tetrachloride	5.	ND	U
108-05-4	Vinyl acetate	10.	ND	U
71-43-2	Benzene	5.	ND	U
107-06-2	1,2-Dichloroethane	5.	ND	U
79-01-6	Trichloroethene	5.	ND	U
78-87-5	1,2-Dichloropropane	5.	ND	U
75-27-4	Bromodichloromethane	5.	ND	U
10061-01-5	Cis-1,3-dichloropropene	5.	ND	U
108-10-1	4-Methyl-2-pentanone	10.	ND	U
108-88-3	Toluene	5.	ND	U
10061-02-6	Trans-1,3-dichloropropene	5.	ND	U
79-00-5	1,1,2-Trichloroethane	5.	ND	U
127-18-4	Tetrachloroethene	5.	ND	U
591-78-6	2-Hexanone	10.	ND	U
124-48-1	Dibromochloromethane	5.	ND	U
108-90-7	Chlorobenzene	5.	ND	U
100-41-4	Ethylbenzene	5.	ND	U
1330-20-7	Xylene (Total)	5.	ND	U
100-42-5	Styrene	5.	ND	U
75-25-2	Bromoform	5.	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	ND	U
541-73-1	1,3-Dichlorobenzene	5.	ND	U
106-46-7	1,4-Dichlorobenzene	5.	ND	U
95-50-1	1,2-Dichlorobenzene	5.	ND	U

SURROGATE RECOVERY SUMMARY -- EPA METHOD 8240
ANAMETRIX, INC. (408)432-8192

Project ID : 35195.10
Matrix : LIQUID

Anametrix ID : 9410074
Analyst : TM
Supervisor : DCS

	SAMPLE ID	SU1	SU2	SU3
1	VBLKE4	97	99	103
2	VLCSM8	97	100	102
3	MW-7	96	99	102
4	MW-7 MS	97	100	101
5	MW-7 MSD	99	99	102
6	MW-4	100	100	104
7	MW-6	97	97	101
8	T.BLANK	97	98	103
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	QC LIMITS
SU1 = 1,2-Dichloroethane-d4	(75-113)
SU2 = Toluene-d8	(83-110)
SU3 = 1,4-Bromofluorobenzene	(82-114)

* Values outside of Anametrix QC limits

MATRIX SPIKE RECOVERY FORM -- EPA METHOD 8240
ANAMETRIX, INC. (408)432-8192

Project ID : 35195.10
Sample ID : MW-7
Matrix : WATER
Date Sampled :10/10/94
Date Analyzed :10/18/94
Instrument ID : MSD2

Anametrix ID : 9410074-03
Analyst : TM
Supervisor : DCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	%REC LIMITS
1,1-Dichloroethene	50.	0.	53.	107	67-150
Benzene	50.	0.	56.	112	75-134
Trichloroethene	50.	0.	54.	108	69-136
Toluene	50.	0.	57.	113	78-130
Chlorobenzene	50.	0.	52.	105	85-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	RPD LIMITS	%REC LIMITS
1,1-Dichloroethene	50.	48.	97	10	25	67-150
Benzene	50.	52.	104	7	25	75-134
Trichloroethene	50.	50.	100	8	25	69-136
Toluene	50.	52.	105	8	25	78-130
Chlorobenzene	50.	49.	98	7	25	85-130

* Value is outside of Anametrix QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

LABORATORY CONTROL SPIKE RECOVERY FORM --- EPA METHOD 8240
ANAMETRIX, INC. (408)432-8192

Project/Case	:	Anametrix ID	: MO1801A2.D
Matrix	: WATER	Analyst	: TM
Date Sampled	:	Supervisor	: DS
Date Analyzed	: 18 Oct 94 11:25 am	SDG/Batch	:
Instrument ID	: MSD2		
		Sample ID	: VLCSM8 @ 50ng

COMPOUND	SPIKE ADDED (ug/Kg	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	%REC LIMITS
1,1-Dichloroethene	50	0	48	97	72-145
Benzene	50	0	50	100	83-125
Trichloroethene	50	0	48	95	61-140
Toluene	50	0	49	98	82-123
Chlorobenzene	50	0	47	94	82-125

ANAMETRIX REPORT DESCRIPTION
GCMS

Organic Analysis Data Sheets (OADS)

OADS forms contain tabulated results for target compounds. The OADS are grouped by method and, within each method, organized sequentially in order of increasing Anametrix ID number.

Tentatively Identified Compounds (TICs)

TIC forms contain tabulated results for non-target compounds detected in GC/MS analyses. TICs must be requested at the time samples are submitted at Anametrix. TIC forms immediately follow the OADS form for each sample. If TICs are requested but not found, then TIC forms will not be included with the report.

Surrogate Recovery Summary (SRS)

SRS forms contain quality assurance data. An SRS form will be printed for each method, if the method requires surrogate compounds. They will list surrogate percent recoveries for all samples and any method blanks. Any surrogate recovery outside the established limits will be flagged with an "*", and the total number of surrogates outside the limits will be listed in the column labelled "Total Out".

Matrix Spike Recovery Form (MSR)

MSR forms contain quality assurance data. They summarize percent recovery and relative percent difference information for matrix spikes and matrix spike duplicates. This information is a statement of both accuracy and precision. Any percent recovery or relative percent difference outside established limits will be flagged with an "*", and the total number outside the limits will be listed at the bottom of the page. Not all reports will contain an MSR form.

Qualifiers

Anametrix uses several data qualifiers (Q) in it's report forms. These qualifiers give additional information on the compounds reported. They should help a data reviewer to verify the integrity of the analytical results. The following is a list of qualifiers and their meanings:

- U - Indicates that the compound was analyzed for, but was not detected at or above the specified reporting limit.
- B - Indicates that the compound was detected in the associated method blank.
- J - Indicates that the compound was detected at an amount below the specified reporting limit. Consequently, the amount should be considered an approximate value. Tentatively identified compounds will always have a "J" qualifier because they are not included in the instrument calibration.
- E - Indicates that the amount reported exceeded the linear range of the instrument calibration.
- D - Indicates that the compound was detected in an analysis performed at a secondary dilution.
- A - Indicates that the tentatively identified compound is a suspected aldol condensation product. This is common in EPA Method 8270 soil analyses.

Absence of a qualifier indicates that the compound was detected at a concentration at or above the specified reporting limit.

REPORTING CONVENTIONS

- Due to a size limitation in our data processing step, only the first eight (8) characters of your project ID and sample ID will be printed on the report forms. However, the report cover letter and report summary pages display up to twenty (20) characters of your project and sample IDs.
- Amounts reported are gross values, i.e., not corrected for method blank contamination.

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. WALTER HOWARD
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9410074
Date Received : 10/11/94
Project ID : 35195.101
Purchase Order: N/A
Department : GCMS
Sub-Department: GCMS

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9410074- 1	MW-4	WATER	10/10/94	8240
9410074- 2	MW-6	WATER	10/10/94	8240
9410074- 3	MW-7	WATER	10/10/94	8240
9410074- 4	T. BLANK	WATER	10/10/94	8240
9410074- 1	MW-4	WATER	10/10/94	8270
9410074- 2	MW-6	WATER	10/10/94	8270

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. WALTER HOWARD
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9410074
Date Received : 10/11/94
Project ID : 35195.101
Purchase Order: N/A
Department : GCMS
Sub-Department: gcms

QA/QC SUMMARY :

- No QA/QC problems encountered for EPA Method 8240.
- Sample MW-4 could not be analyzed at a lower dilution by EPA Method 8270 due to the nature of the sample.

David L Schorkey 10/26/94
Department Supervisor Date

Chemist 10-26-94
Date

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8270
ANAMETRIX, INC. (408)432-8192

Project ID : 35195.10
Sample ID : MW-4
Matrix : WATER
Date Sampled :10/10/94
Date Extracted :10/12/94
Amount Extracted : 1000.0 mL
Date Analyzed :10/17/94
Instrument ID : MSD5

Anametrix ID : 9410074-01
Analyst : 4
Supervisor : MET

Dilution Factor : 10.0
Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
62-75-9	N-Nitrosodimethylamine	100.	ND	U
108-95-2	Phenol	100.	ND	U
4165-61-1	Aniline	100.	ND	U
111-44-4	bis(2-Chloroethyl)ether	100.	ND	U
95-57-8	2-Chlorophenol	100.	ND	U
541-73-1	1,3-Dichlorobenzene	100.	ND	U
106-46-7	1,4-Dichlorobenzene	100.	ND	U
100-51-6	Benzyl Alcohol	100.	ND	U
95-48-7	2-Methylphenol	100.	ND	U
95-50-1	1,2-Dichlorobenzene	100.	ND	U
108-60-1	2,2'-oxybis(1-Chloropropane)	100.	ND	U
106-44-5	4-Methylphenol	100.	ND	U
621-64-7	N-Nitroso-di-n-propylamine	100.	ND	U
67-72-1	Hexachloroethane	100.	ND	U
98-95-3	Nitrobenzene	100.	ND	U
78-59-1	Isophorone	100.	ND	U
105-67-9	2,4-Dimethylphenol	100.	ND	U
88-75-5	2-Nitrophenol	100.	ND	U
65-85-0	Benzoic Acid	500.	ND	U
111-91-1	bis(2-Chloroethoxy)methane	100.	ND	U
120-83-2	2,4-Dichlorophenol	100.	ND	U
120-82-1	1,2,4-Trichlorobenzene	100.	ND	U
91-20-3	Naphthalene	100.	ND	U
106-47-8	4-Chloroaniline	100.	ND	U
87-68-3	Hexachlorobutadiene	100.	ND	U
59-50-7	4-Chloro-3-methylphenol	100.	ND	U
91-57-6	2-Methylnaphthalene	100.	ND	U
77-47-4	Hexachlorocyclopentadiene	100.	ND	U
88-06-2	2,4,6-Trichlorophenol	100.	ND	U
95-95-4	2,4,5-Trichlorophenol	500.	ND	U
91-58-7	2-Chloronaphthalene	100.	ND	U
88-74-4	2-Nitroaniline	500.	ND	U
131-11-3	Dimethylphthalate	100.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8270
ANAMETRIX, INC. (408)432-8192

Project ID : 35195.10
Sample ID : MW-4
Matrix : WATER
Date Sampled :10/10/94
Date Extracted :10/12/94
Amount Extracted : 1000.0 mL
Date Analyzed :10/17/94
Instrument ID : MSD5

Anametrix ID : 9410074-01
Analyst :
Supervisor :

Dilution Factor : 10.0
Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
606-20-2	2,6-Dinitrotoluene	100.	ND	U
208-96-8	Acenaphthylene	100.	ND	U
99-09-2	3-Nitroaniline	500.	ND	U
83-32-9	Acenaphthene	100.	ND	U
51-28-5	2,4-Dinitrophenol	500.	ND	U
100-02-7	4-Nitrophenol	500.	ND	U
132-64-9	Dibenzofuran	100.	ND	U
121-14-2	2,4-Dinitrotoluene	100.	ND	U
84-66-2	Diethylphthalate	100.	ND	U
7005-72-3	4-Chlorophenyl-phenylether	100.	ND	U
86-73-7	Fluorene	100.	ND	U
100-01-6	4-Nitroaniline	500.	ND	U
534-52-1	4,6-Dinitro-2-methylphenol	500.	ND	U
86-30-6	N-Nitrosodiphenylamine (1)	100.	ND	U
103-33-3	Azobenzene	100.	ND	U
101-55-3	4-Bromophenyl-phenylether	100.	ND	U
118-74-1	Hexachlorobenzene	100.	ND	U
87-86-5	Pentachlorophenol	500.	ND	U
85-01-8	Phenanthrene	100.	ND	U
120-12-7	Anthracene	100.	ND	U
84-74-2	Di-n-butylphthalate	100.	ND	U
206-44-0	Fluoranthene	100.	ND	U
92-87-5	Benzidine	100.	ND	U
129-00-0	Pyrene	100.	ND	U
85-68-7	Butylbenzylphthalate	100.	ND	U
117-81-7	bis(2-Ethylhexyl)phthalate	100.	ND	U
91-94-1	3,3'-Dichlorobenzidine	200.	ND	U
56-55-3	Benzo(a)anthracene	100.	ND	U
218-01-9	Chrysene	100.	ND	U
117-84-0	Di-n-octylphthalate	100.	ND	U
205-99-2	Benzo(b)fluoranthene	100.	ND	U
207-08-9	Benzo(k)fluoranthene	100.	ND	U
50-32-8	Benzo(a)pyrene	100.	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	100.	ND	U
53-70-3	Dibenz(a,h)anthracene	100.	ND	U
191-24-2	Benzo(g,h,i)perylene	100.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8270
ANAMETRIX, INC. (408)432-8192

TENTATIVELY IDENTIFIED COMPOUNDS

Project ID : 35195.10
Sample ID : MW-4
Matrix : WATER
Date Sampled :10/10/94
Date Extracted :10/12/94
Amount Extracted : 1000.0 mL
Date Analyzed :10/17/94
Instrument ID : MSD5

Anametrix ID : 9410074-01
Analyst : LA
Supervisor : MET

Dilution Factor : 10.0
Conc. Units : ug/L

	CAS NUMBER	COMPOUND NAME	REPORTING LIMIT	ESTIMATED CONC.	Q
1.	- -	UNKNOWN	0.	30.	J
2.	- -	UNKNOWN	0.	60.	J
3.	- -	UNKNOWN	0.	80.	J
4.	111-96-6	Ethane, 1,1'-oxybis[2-methox	0.	40.	J
5.	- -	UNKNOWN	0.	90.	J
6.	611-14-3	Benzene, 1-ethyl-2-methyl-	0.	30.	J
7.	5314-41-0	Acetaldehyde, di-sec-butyl a	0.	30.	J
8.	112-36-7	Ethane, 1,1'-oxybis[2-ethoxy	0.	40.	J
9.	- -	UNKNOWN	0.	30.	J
10.	- -	UNKNOWN	0.	80.	J
11.	- -	UNKNOWN	0.	30.	J
12.	- -	UNKNOWN	0.	30.	J
13.	- -	UNKNOWN	0.	70.	J
14.	- -	UNKNOWN	0.	30.	J
15.	20637-48-3	Butane, 1,2,4-trimethoxy-	0.	100.	J
16.	3852-09-3	Propanoic acid, 3-methoxy-,	0.	40.	J
17.	934-34-9	2(3H)-Benzothiazolone	0.	40.	J
18.	- -	UNKNOWN	0.	30.	J
19.	143-24-8	2,5,8,11,14-Pentaoxapentadec	0.	30.	J
20.	- -	UNKNOWN	0.	50.	J
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ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8270
ANAMETRIX, INC. (408)432-8192

Project ID : 35195.10
Sample ID : MW-6
Matrix : WATER
Date Sampled :10/10/94
Date Extracted :10/12/94
Amount Extracted : 1000.0 mL
Date Analyzed :10/17/94
Instrument ID : MSD5

Anametrix ID : 9410074-02
Analyst : LM
Supervisor : MBT

Dilution Factor : 1.0
Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
62-75-9	N-Nitrosodimethylamine	10.	ND	U
108-95-2	Phenol	10.	ND	U
4165-61-1	Aniline	10.	ND	U
111-44-4	bis(2-Chloroethyl)ether	10.	ND	U
95-57-8	2-Chlorophenol	10.	ND	U
541-73-1	1,3-Dichlorobenzene	10.	ND	U
106-46-7	1,4-Dichlorobenzene	10.	ND	U
100-51-6	Benzyl Alcohol	10.	ND	U
95-48-7	2-Methylphenol	10.	ND	U
95-50-1	1,2-Dichlorobenzene	10.	ND	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	ND	U
106-44-5	4-Methylphenol	10.	ND	U
621-64-7	N-Nitroso-di-n-propylamine	10.	ND	U
67-72-1	Hexachloroethane	10.	ND	U
98-95-3	Nitrobenzene	10.	ND	U
78-59-1	Isophorone	10.	ND	U
105-67-9	2,4-Dimethylphenol	10.	ND	U
88-75-5	2-Nitrophenol	10.	ND	U
65-85-0	Benzoic Acid	50.	ND	U
111-91-1	bis(2-Chloroethoxy)methane	10.	ND	U
120-83-2	2,4-Dichlorophenol	10.	ND	U
120-82-1	1,2,4-Trichlorobenzene	10.	ND	U
91-20-3	Naphthalene	10.	ND	U
106-47-8	4-Chloroaniline	10.	ND	U
87-68-3	Hexachlorobutadiene	10.	ND	U
59-50-7	4-Chloro-3-methylphenol	10.	ND	U
91-57-6	2-Methylnaphthalene	10.	ND	U
77-47-4	Hexachlorocyclopentadiene	10.	ND	U
88-06-2	2,4,6-Trichlorophenol	10.	ND	U
95-95-4	2,4,5-Trichlorophenol	50.	ND	U
91-58-7	2-Chloronaphthalene	10.	ND	U
88-74-4	2-Nitroaniline	50.	ND	U
131-11-3	Dimethylphthalate	10.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8270
ANAMETRIX, INC. (408)432-8192

Project ID : 35195.10
Sample ID : MW-6
Matrix : WATER
Date Sampled :10/10/94
Date Extracted :10/12/94
Amount Extracted : 1000.0 mL
Date Analyzed :10/17/94
Instrument ID : MSD5

Anametrix ID : 9410074-02
Analyst : LH
Supervisor : MCT

Dilution Factor : 1.0
Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
606-20-2	2,6-Dinitrotoluene	10.	ND	U
208-96-8	Acenaphthylene	10.	ND	U
99-09-2	3-Nitroaniline	50.	ND	U
83-32-9	Acenaphthene	10.	ND	U
51-28-5	2,4-Dinitrophenol	50.	ND	U
100-02-7	4-Nitrophenol	50.	ND	U
132-64-9	Dibenzofuran	10.	ND	U
121-14-2	2,4-Dinitrotoluene	10.	ND	U
84-66-2	Diethylphthalate	10.	ND	U
7005-72-3	4-Chlorophenyl-phenylether	10.	ND	U
86-73-7	Fluorene	10.	ND	U
100-01-6	4-Nitroaniline	50.	ND	U
534-52-1	4,6-Dinitro-2-methylphenol	50.	ND	U
86-30-6	N-Nitrosodiphenylamine (1)	10.	ND	U
103-33-3	Azobenzene	10.	ND	U
101-55-3	4-Bromophenyl-phenylether	10.	ND	U
118-74-1	Hexachlorobenzene	10.	ND	U
87-86-5	Pentachlorophenol	50.	ND	U
85-01-8	Phenanthrene	10.	ND	U
120-12-7	Anthracene	10.	ND	U
84-74-2	Di-n-butylphthalate	10.	ND	U
206-44-0	Fluoranthene	10.	ND	U
92-87-5	Benzidine	10.	ND	U
129-00-0	Pyrene	10.	ND	U
85-68-7	Butylbenzylphthalate	10.	ND	U
117-81-7	bis(2-Ethylhexyl)phthalate	10.	ND	U
91-94-1	3,3'-Dichlorobenzidine	20.	ND	U
56-55-3	Benzo(a)anthracene	10.	ND	U
218-01-9	Chrysene	10.	ND	U
117-84-0	Di-n-octylphthalate	10.	ND	U
205-99-2	Benzo(b)fluoranthene	10.	ND	U
207-08-9	Benzo(k)fluoranthene	10.	ND	U
50-32-8	Benzo(a)pyrene	10.	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	ND	U
53-70-3	Dibenz(a,h)anthracene	10.	ND	U
191-24-2	Benzo(g,h,i)perylene	10.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8270
ANAMETRIX, INC. (408)432-8192

TENTATIVELY IDENTIFIED COMPOUNDS

Project ID : 35195.10
Sample ID : MW-6
Matrix : WATER
Date Sampled :10/10/94
Date Extracted :10/12/94
Amount Extracted : 1000.0 mL
Date Analyzed :10/17/94
Instrument ID : MSD5

Anametrix ID : 9410074-02
Analyst : [illegible]
Supervisor : MeT

Dilution Factor : 1.0
Conc. Units : ug/L

	CAS NUMBER	COMPOUND NAME	REPORTING LIMIT	ESTIMATED CONC.	Q
1.	- -	UNKNOWN	0.	7.	J
2.	2233-00-3	1-Propene, 3,3,3-trichloro-	0.	3.	J
3.	104-76-7	1-Hexanol, 2-ethyl-	0.	7.	J
4.	- -	UNKNOWN	0.	2.	J
5.	- -	UNKNOWN	0.	5.	J
6.	20324-33-8	2-Propanol, 1-[2-(2-methoxy-	0.	3.	J
7.	1638-16-0	2-Propanol, 1,1'-[(1-methyl-	0.	2.	J
8.	1638-16-0	2-Propanol, 1,1'-[(1-methyl-	0.	3.	J
9.	- -0	Phenol, 2-fluoro-4-nitro-	0.	5.	J
10.	13080-90-5	Bicyclo[2.2.1]hept-5-en-2-ol	0.	3.	J
11.	- -	UNKNOWN	0.	3.	J
12.	16523-06-1	Cyclopentanecarboxylic acid,	0.	3.	J
13.	7098-22-8	Tetratetracontane	0.	2.	J
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ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8270
ANAMETRIX, INC. (408)432-8192

Project ID : 35195.
Sample ID : SBLKQC
Matrix : WATER
Date Sampled : 0/ 0/ 0
Date Extracted :10/12/94
Amount Extracted : 1000.0 mL
Date Analyzed :10/17/94
Instrument ID : MSD5

Anametrix ID : BO1211B1
Analyst : LY
Supervisor : MET

Dilution Factor : 1.0
Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
62-75-9	N-Nitrosodimethylamine	10.	ND	U
108-95-2	Phenol	10.	ND	U
4165-61-1	Aniline	10.	ND	U
111-44-4	bis(2-Chloroethyl)ether	10.	ND	U
95-57-8	2-Chlorophenol	10.	ND	U
541-73-1	1,3-Dichlorobenzene	10.	ND	U
106-46-7	1,4-Dichlorobenzene	10.	ND	U
100-51-6	Benzyl Alcohol	10.	ND	U
95-48-7	2-Methylphenol	10.	ND	U
95-50-1	1,2-Dichlorobenzene	10.	ND	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	ND	U
106-44-5	4-Methylphenol	10.	ND	U
621-64-7	N-Nitroso-di-n-propylamine	10.	ND	U
67-72-1	Hexachloroethane	10.	ND	U
98-95-3	Nitrobenzene	10.	ND	U
78-59-1	Isophorone	10.	ND	U
105-67-9	2,4-Dimethylphenol	10.	ND	U
88-75-5	2-Nitrophenol	10.	ND	U
65-85-0	Benzoic Acid	50.	ND	U
111-91-1	bis(2-Chloroethoxy)methane	10.	ND	U
120-83-2	2,4-Dichlorophenol	10.	ND	U
120-82-1	1,2,4-Trichlorobenzene	10.	ND	U
91-20-3	Naphthalene	10.	ND	U
106-47-8	4-Chloroaniline	10.	ND	U
87-68-3	Hexachlorobutadiene	10.	ND	U
59-50-7	4-Chloro-3-methylphenol	10.	ND	U
91-57-6	2-Methylnaphthalene	10.	ND	U
77-47-4	Hexachlorocyclopentadiene	10.	ND	U
88-06-2	2,4,6-Trichlorophenol	10.	ND	U
95-95-4	2,4,5-Trichlorophenol	50.	ND	U
91-58-7	2-Chloronaphthalene	10.	ND	U
88-74-4	2-Nitroaniline	50.	ND	U
131-11-3	Dimethylphthalate	10.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8270
ANAMETRIX, INC. (408)432-8192

Project ID : 35195.
Sample ID : SBLKQC
Matrix : WATER
Date Sampled : 0/ 0/ 0
Date Extracted :10/12/94
Amount Extracted : 1000.0 mL
Date Analyzed :10/17/94
Instrument ID : MSD5

Anametrix ID : B01211B1
Analyst : LY
Supervisor : MET

Dilution Factor : 1.0
Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
606-20-2	2,6-Dinitrotoluene	10.	ND	U
208-96-8	Acenaphthylene	10.	ND	U
99-09-2	3-Nitroaniline	50.	ND	U
83-32-9	Acenaphthene	10.	ND	U
51-28-5	2,4-Dinitrophenol	50.	ND	U
100-02-7	4-Nitrophenol	50.	ND	U
132-64-9	Dibenzofuran	10.	ND	U
121-14-2	2,4-Dinitrotoluene	10.	ND	U
84-66-2	Diethylphthalate	10.	ND	U
7005-72-3	4-Chlorophenyl-phenylether	10.	ND	U
86-73-7	Fluorene	10.	ND	U
100-01-6	4-Nitroaniline	50.	ND	U
534-52-1	4,6-Dinitro-2-methylphenol	50.	ND	U
86-30-6	N-Nitrosodiphenylamine (1)	10.	ND	U
103-33-3	Azobenzene	10.	ND	U
101-55-3	4-Bromophenyl-phenylether	10.	ND	U
118-74-1	Hexachlorobenzene	10.	ND	U
87-86-5	Pentachlorophenol	50.	ND	U
85-01-8	Phenanthrene	10.	ND	U
120-12-7	Anthracene	10.	ND	U
84-74-2	Di-n-butylphthalate	10.	ND	U
206-44-0	Fluoranthene	10.	ND	U
92-87-5	Benzidine	10.	ND	U
129-00-0	Pyrene	10.	ND	U
85-68-7	Butylbenzylphthalate	10.	ND	U
117-81-7	bis(2-Ethylhexyl)phthalate	10.	ND	U
91-94-1	3,3'-Dichlorobenzidine	20.	ND	U
56-55-3	Benzo(a)anthracene	10.	ND	U
218-01-9	Chrysene	10.	ND	U
117-84-0	Di-n-octylphthalate	10.	ND	U
205-99-2	Benzo(b)fluoranthene	10.	ND	U
207-08-9	Benzo(k)fluoranthene	10.	ND	U
50-32-8	Benzo(a)pyrene	10.	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	ND	U
53-70-3	Dibenz(a,h)anthracene	10.	ND	U
191-24-2	Benzo(g,h,i)perylene	10.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8270
ANAMETRIX, INC. (408)432-8192

TENTATIVELY IDENTIFIED COMPOUNDS

Project ID : 35195.
Sample ID : SBLKQC
Matrix : WATER
Date Sampled : 0/ 0/ 0
Date Extracted :10/12/94
Amount Extracted : 1000.0 mL
Date Analyzed :10/17/94
Instrument ID : MSD5

Anametrix ID : BO1211B1
Analyst : [illegible]
Supervisor : [illegible]

Dilution Factor : 1.0
Conc. Units : ug/L

	CAS NUMBER	COMPOUND NAME	REPORTING LIMIT	ESTIMATED CONC.	Q
1.	111-90-0	Ethanol, 2-(2-ethoxyethoxy)-	0.	3.	J
2.	105-60-2	Caprolactam	0.	2.	J
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

SURROGATE RECOVERY SUMMARY -- EPA METHOD 8270
ANAMETRIX, INC. (408)432-8192

Project ID : 35195.10
Matrix : LIQUID

Anametrix ID : 9410074
Analyst : [illegible]
Supervisor : [illegible]

	SAMPLE ID	SU1	SU2	SU3	SU4	SU5	SU6
1	SBLKQC	64	66	71	66	76	89
2	SLCSPL	54	56	58	57	70	77
3	SLCSDG9	59	61	64	62	75	84
4	MW-6	21	28	76	72	20	77
5	MW-4	65	90	96	84	53	92
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

	QC LIMITS
SU1 = 2-Fluorophenol	(21-100)
SU2 = Phenol-d5	(10- 94)
SU3 = Nitrobenzene-d5	(35-114)
SU4 = 2-Fluorobiphenyl	(43-116)
SU5 = 2,4,6-Tribromophenol	(10-123)
SU6 = Terphenyl-d14	(33-141)

* Values outside of Anametrix QC limits

LABORATORY SPIKE RECOVERY FORM --- EPA METHOD 8270
ANAMETRIX, INC. (408)432-8192

Project/Case	: 35195.101	Anametrix ID	: MO1211B1/NO1211B1
Matrix	: WATER	Analyst	: LH
Date Sampled	: 00/00/00	Supervisor	: MET
Date Extracted	: 10/12/94	SDG/Batch	: 10074
Date Analyzed	: 10/17/94		
Instrument ID	: MSD5	Sample I.D.	: SLCSPL/SLCSDG9

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	%REC LIMITS
Phenol	75	0	39	52	22-96
2-Chlorophenol	75	0	40	53	21-96
1,4-Dichlorobenzene	50	0	24	48	17-88
N-nitroso-di-n-propylamine	50	0	30	60	19-98
1,2,4-Trichlorobenzene	50	0	26	52	18-92
4-Chloro-3-methylphenol	75	0	43	57	21-103
Acenaphthene	50	0	28	56	24-104
4-Nitrophenol	75	0	46	61	22-132
2,4-Dinitrotoluene	50	0	33	66	30-114
Pentachlorophenol	75	0	51	68	16-141
Pyrene	50	0	30	60	30-133

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD PERCENT RECOVERY	% RPD	%RPD LIMITS
Phenol	75	43	57	-10	25
2-Chlorophenol	75	45	60	-12	25
1,4-Dichlorobenzene	50	29	58	-19	25
N-nitroso-di-n-propylamine	50	34	68	-13	25
1,2,4-Trichlorobenzene	50	31	62	-18	25
4-Chloro-3-methylphenol	75	48	64	-11	25
Acenaphthene	50	31	62	-10	25
4-Nitrophenol	75	50	67	-8	25
2,4-Dinitroluene	50	36	72	-9	25
Pentachlorophenol	75	57	76	-11	25
Pyrene	50	33	66	-10	25

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. WALTER HOWARD
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9410074
Date Received : 10/11/94
Project ID : 35195.101
Purchase Order: N/A
Department : GC
Sub-Department: PEST

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9410074- 1	MW-4	WATER	10/10/94	8080 PCB
9410074- 2	MW-6	WATER	10/10/94	8080 PCB
9410074- 3	MW-7	WATER	10/10/94	8080 PCB

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. WALTER HOWARD
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9410074
Date Received : 10/11/94
Project ID : 35195.101
Purchase Order: N/A
Department : GC
Sub-Department: PEST

QA/QC SUMMARY :

- No QA/QC problems encountered for samples.

Richard Yee 10/21/94
Department Supervisor Date

Sha an Felix 10/21/94
Chemist Date

4003

Wahler Associates
1023 Corporation Way
P.O. Box 10023
Palo Alto, CA 94303
FAX: (415) 968-5365
(415) 968-6250

1410074 Page 1 of 1 (12)

CHAIN OF CUSTODY FORM

Serial Number: _____
WA Authorization: _____

Laboratory: Anametrix
Turnaround Time: Standard
Results To: Walter Howard
Michelle Mason

Sheet 1 of 1
Samplers: Todd Murray, Chi Do, James Andrews
Recorder: Todd Murray (signature required)

Project: American National Can / Rust
Job Number: 35195.101
Project Manager: Michelle Mason / Walter Howard
Date: 10/10/1994

AREA 3 SAMPLES

ITEM NO.	SAMPLE NUMBER	DATE AND TIME SAMPLED: Date	Time	MATRIX	# CONTAINERS & PRESERVATIVES: UNPRESERVED	H_2SO_4	HNO_3	HCl (8240) (VOAs)			ANALYSIS REQUESTED / TYPE OF CONTAINER: EPA 8240	EPA 8270	TPH-D	8080 / PCB				COMMENTS
1	MW-4	10/10/94	1515	H_2O	6			2			X	X	X	X				
2	MW-6	↓	1435	↓	6			2			X	X	X	X				
3	MW-7	↓	1445	↓	4			2			X		X	X				
4	T. Blank	↓	—	↓	6			6			X							
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

MISCELLANEOUS

Number of Coolers	Type of Coolant
TWO	ICE

COMMENTS:

Area 3 Samples

USE DHS LUFT Detection Limits where applicable.

LABORATORY COPY WHITE PROJECT COPY YELLOW FIELD or OFFICE COPY PINK

CHAIN OF CUSTODY RECORD

Relinquished by: (signature & affiliation)	Date/Time	Received by: (signature & affiliation)	Date/Time
James Andrews			10/11/94
Relinquished by: (signature & affiliation)		Received by: (signature & affiliation)	Date/Time
Relinquished by: (signature & affiliation)		Received by: (signature & affiliation)	Date/Time
Relinquished by: (signature & affiliation)	09:45 10/11/94	Received by: (signature & affiliation)	Date/Time
Dispatched by: (signature & affiliation)	Date/Time	Received for lab by:	Date/Time
			10/11/94 0945

Inchcape Testing Services
Anametrix Laboratories

1961 Concourse Drive
Suite E
San Jose, CA 95131
Tel: 408-432-8192
Fax: 408-432-8198

MR. WALTER HOWARD
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9410073
Date Received : 10/11/94
Project ID : 35195.101
Purchase Order: N/A

The following samples were received at Anametrix for analysis :

ANAMETRIX ID	CLIENT SAMPLE ID
9410073- 1	MW-9
9410073- 2	MW-14
9410073- 3	T.BLANK

This report is organized in sections according to the specific Anametrix laboratory group which performed the analysis(es) and generated the data.

The results contained within this report relate to only the sample(s) tested. Additionally, these data should be considered in their entirety and Anametrix cannot be responsible for the detachment, separation, or otherwise partial use of this report.

Anametrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234.

If you have any further questions or comments on this report, please call us as soon as possible. Thank you for using Anametrix.

Corinne Khan for
Susan Kraska Yeager
Laboratory Director

10/21/94
Date

This report consists of 3 pages.

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. WALTER HOWARD
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9410073
Date Received : 10/11/94
Project ID : 35195.101
Purchase Order: N/A
Department : GC
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9410073- 1	MW-9	WATER	10/10/94	TPHgBTEX
9410073- 2	MW-14	WATER	10/10/94	TPHgBTEX
9410073- 3	T.BLANK	WATER	10/10/94	TPHgBTEX

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. WALTER HOWARD
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9410073
Date Received : 10/11/94
Project ID : 35195.101
Purchase Order: N/A
Department : GC
Sub-Department: TPH

QA/QC SUMMARY :

- No QA/QC problems encountered for these samples

Cheryl Balmer 10/13/94
Department Supervisor Date

Debra Silver 10/14/94
Chemist Date

Organic Analysis Data Sheet
Total Petroleum Hydrocarbons as Gasoline with BTEX
ITS - Anametrix Laboratories - (408)432-8192

Lab Workorder : 9410073 | Client Project ID : 35195.101

Matrix : WATER | Units : ug/L

Compound Name	Method Reporting Limit*	Client ID MW-9 Lab ID 9410073-01	Client ID MW-14 Lab ID 9410073-02	Client ID T.BLANK Lab ID 9410073-03	Client ID Lab ID Method Blank	Client ID Lab ID
Benzene	0.50	ND	ND	ND	ND	
Toluene	0.50	ND	ND	ND	ND	
Ethylbenzene	0.50	ND	ND	ND	ND	
Total Xylenes	0.50	ND	ND	ND	ND	
TPH as Gasoline	50	ND	ND	ND	ND	
Surrogate Recovery		109%	110%	109%	114%	
Instrument ID		HP21	HP21	HP21	HP21	
Date Sampled		10/10/94	10/10/94	10/10/94	N/A	
Date Analyzed		10/12/94	10/12/94	10/12/94	10/12/94	
RLMF		1	1	1	1	
Filename Reference		FPO07301.D	FPO07302.D	FPO07303.D	BO1201E1.D	

* The Method Reporting Limit must be multiplied by the Reporting Limit Multiplication Factor (RLMF) to achieve the compound's reporting limit in the analysis.

ND : Not detected at or above the reporting limit for the analysis as performed.
TPHg : Determined by GC/FID following sample purge & trap by EPA Method 5030.
BTEX : Determined by modified EPA Method 8020 following sample purge & trap by EPA Method 5030.

Lab Control Limits for surrogate compound p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Donna Shear 10/14/94
Analyst Date

Cheryl Balmer 10/14/94
Supervisor Date

Issued on 10/14/94 @ 8:27 AM

Matrix Spike Report

Total Petroleum Hydrocarbons as BTEX

ITS - Anametrix Laboratories - (408)432-8192

Project ID : 35195.1
Sample ID : MW-9
Matrix : WATER
Date Sampled : 10/10/94

Laboratory ID : 9410073-01
Analyst : IS
Supervisor : [illegible]
Instrument ID : HP21
Units : ug/L

COMPOUND NAME	SPIKE AMOUNT	SAMPLE RESULTS	MS RECOVERY	MSD RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS
Benzene	20	ND	105%	100%	45-139	5%	30
Toluene	20	ND	110%	105%	51-138	5%	30
Ethylbenzene	20	ND	115%	115%	48-146	0%	30
Total Xylenes	20	ND	115%	105%	50-139	9%	30
Surrogate Recovery		109%	111%	112%			
Date Analyzed		10/12/94	10/12/94	10/12/94			
Multiplier		1	1	1			
Filename Reference		FPO07301.D	FMO07301.D	FDO07301.D			

* Limits established by Inchcape Testing Services, Anametrix Laboratories.

Laboratory Control Spike Report
Total Petroleum Hydrocarbons as BTEX
ITS - Anametrix Laboratories - (408)432-8192

Instrument ID : HP21
Matrix : LIQUID

Analyst : IS
Supervisor : [illegible]
Units : ug/L

COMPOUND NAME	SPIKE AMOUNT	LCS RECOVERY	RECOVERY LIMITS
Benzene	20	95%	52-133
Toluene	20	95%	57-136
Ethylbenzene	20	105%	56-139
Total Xylenes	20	100%	56-141
Surrogate Recovery		113%	61-139
Date Analyzed		10/12/94	
Multiplier		1	
Filename Reference		MO1201E1.D	

* Limits established by Inchcape Testing Services, Anametrix Laboratories.