REMEDIAL INVESTIGATION

OPERABLE UNIT 2

RSR CORPORATION SITE

VOLUME VIII

APPENDIX C (Continued)

TAL METALS

008747

JULY 1994

PREPARED BY

RMT/JONES AND NEUSE, INC.

PREPARED FOR

DALLAS HOUSING AUTHORITY

DA940007

JONES & NEUSE

GULF COAST REGION OF RMT

153503.03Doc:RIFS0810

RMT/JONES & NEUSE, INC. – DALLAS, TX
12655 NORTH CENTRAL EXPRESSWAY SUITE 323 75243-1717
214/490-8696 214/490-8695 FAX

008747

8747

208560

WESTERN ATLAS

Core Laboratories

CORE LABORATORIES
A N A L Y T I C A L R E P O R T

Job Number: 942183
Prepared For:

JONES & NEUSE, INC.
MICHAEL WHITEHEAD
12655 N. CENTRAL EXPY.-SUITE 323
DALLAS, TX 75243

Date: 07/21/94

008748

Dana L. Harper
Signature

Date: 07/21/94

Name: DANA L. HARPER

Core Laboratories
3645 Beglis Parkway
Sulphur, LA 70663

Title: LABORATORY MANAGER

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942183 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SB-12-04-04 (5'-7')
DATE SAMPLED.....: 05/11/94
TIME SAMPLED.....: 10:35
WORK DESCRIPTION...: DHA

LABORATORY I.D...: 942183-0001
DATE RECEIVED....: 05/13/94
TIME RECEIVED....: 10:00
REMARKS.....:

008749

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Semi-volatile Organic Contaminants		*33		SW-846/8270	05/27/94	LLB
Acenaphthene	ND	330	ug/kg	SW-846/8270		
Acenaphthylene	ND	330	ug/kg	SW-846/8270		
Anthracene	ND	330	ug/kg	SW-846/8270		
Benzo(a)anthracene	ND	330	ug/kg	SW-846/8270		
Benzo(b)fluoranthene	ND	330	ug/kg	SW-846/8270		
Benzo(k)fluoranthene	ND	330	ug/kg	SW-846/8270		
Benzo(ghi)perylene	ND	330	ug/kg	SW-846/8270		
Benzo(a)pyrene	ND	330	ug/kg	SW-846/8270		
Bis(2-chloroethoxy)methane	ND	330	ug/kg	SW-846/8270		
Bis(2-chloroethyl)ether	ND	330	ug/kg	SW-846/8270		
Bis(2-chloroisopropyl)ether	ND	330	ug/kg	SW-846/8270		
Bis(2-ethylhexyl) phthalate	ND	330	ug/kg	SW-846/8270		
4-Bromophenyl phenyl ether	ND	330	ug/kg	SW-846/8270		
Butyl benzyl phthalate	ND	330	ug/kg	SW-846/8270		
Carbazole	ND	330	ug/kg	SW-846/8270		
4-Chloroaniline	ND	330	ug/kg	SW-846/8270		
4-Chloro-3-methylphenol	ND	330	ug/kg	SW-846/8270		
2-Chloronaphthalene	ND	330	ug/kg	SW-846/8270		
2-Chlorophenol	ND	330	ug/kg	SW-846/8270		
4-Chlorophenyl phenyl ether	ND	330	ug/kg	SW-846/8270		
Chrysene	ND	330	ug/kg	SW-846/8270		
2-Methylphenol	ND	330	ug/kg	SW-846/8270		
4-Methylphenol	ND	330	ug/kg	SW-846/8270		
Dibenzo(a,h)anthracene	ND	330	ug/kg	SW-846/8270		
Dibenzofuran	ND	330	ug/kg	SW-846/8270		
Di-n-butyl phthalate	ND	330	ug/kg	SW-846/8270		
1,2-Dichlorobenzene	ND	330	ug/kg	SW-846/8270		
1,3-Dichlorobenzene	ND	330	ug/kg	SW-846/8270		
1,4-Dichlorobenzene	ND	330	ug/kg	SW-846/8270		
3,3'-Dichlorobenzidine	ND	330	ug/kg	SW-846/8270		
2,4-Dichlorophenol	ND	330	ug/kg	SW-846/8270		
Diethyl phthalate	ND	330	ug/kg	SW-846/8270		
2,4-Dimethylphenol	ND	330	ug/kg	SW-846/8270		
Dimethyl phthalate	ND	330	ug/kg	SW-846/8270		
2,4-Dinitrophenol	ND	825	ug/kg	SW-846/8270		
2,4-Dinitrotoluene	ND	330	ug/kg	SW-846/8270		
2,6-Dinitrotoluene	ND	330	ug/kg	SW-846/8270		
Di-n-octyl phthalate	ND	330	ug/kg	SW-846/8270		
Fluoranthene	ND	330	ug/kg	SW-846/8270		
Fluorene	ND	330	ug/kg	SW-846/8270		
Hexachlorobenzene	ND	330	ug/kg	SW-846/8270		
Hexachlorobutadiene	ND	330	ug/kg	SW-846/8270		
Hexachlorocyclopentadiene	ND	330	ug/kg	SW-846/8270		

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Sulphur, LA 70663
(318) 583-4926

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942183 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SB-12-04-04 (5'-7')
DATE SAMPLED.....: 05/11/94
TIME SAMPLED.....: 10:35
WORK DESCRIPTION...: DHA

LABORATORY I.D...: 942183-0001
DATE RECEIVED....: 05/13/94
TIME RECEIVED....: 10:00
REMARKS.....:

008750

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Hexachloroethane	ND	330	ug/kg	SW-846/8270		
Indenol(1,2,3-cd)pyrene	ND	330	ug/kg	SW-846/8270		
Isophorone	ND	330	ug/kg	SW-846/8270		
2-Methyl-4,6-dinitrophenol	ND	825	ug/kg	SW-846/8270		
2-Methylnaphthalene	ND	330	ug/kg	SW-846/8270		
Naphthalene	ND	330	ug/kg	SW-846/8270		
2-Nitroaniline	ND	825	ug/kg	SW-846/8270		
3-Nitroaniline	ND	825	ug/kg	SW-846/8270		
4-Nitroaniline	ND	825	ug/kg	SW-846/8270		
Nitrobenzene	ND	330	ug/kg	SW-846/8270		
2-Nitrophenol	ND	330	ug/kg	SW-846/8270		
4-Nitrophenol	ND	825	ug/kg	SW-846/8270		
N-Nitrosodiphenylamine	ND	330	ug/kg	SW-846/8270		
N-Nitrosodi-n-propylamine	ND	330	ug/kg	SW-846/8270		
Pentachlorophenol	ND	825	ug/kg	SW-846/8270		
Phenanthrene	ND	330	ug/kg	SW-846/8270		
Phenol	ND	330	ug/kg	SW-846/8270		
Pyrene	ND	330	ug/kg	SW-846/8270		
1,2,4-Trichlorobenzene	ND	330	ug/kg	SW-846/8270		
2,4,6-Trichlorophenol	ND	330	ug/kg	SW-846/8270		
2,4,5-Trichlorophenol	ND	825	ug/kg	SW-846/8270		
Semivolatile Organics Extraction	COMPLETE			SW-846 3550	05/25/94	CMG
Volatile Organic Contaminants		*1		SW-846/8240	05/25/94	MJH
Acetone	55	10	ug/kg	SW-846/8240		
Benzene	ND	10	ug/kg	SW-846/8240		
Bromodichloromethane	ND	10	ug/kg	SW-846/8240		
Bromoform	ND	10	ug/kg	SW-846/8240		
Bromomethane	ND	10	ug/kg	SW-846/8240		
2-Butanone (MEK)	ND	10	ug/kg	SW-846/8240		
Carbon disulfide	ND	10	ug/kg	SW-846/8240		
Carbon tetrachloride	ND	10	ug/kg	SW-846/8240		
Chlorobenzene	ND	10	ug/kg	SW-846/8240		
Chloroethane	ND	10	ug/kg	SW-846/8240		
Chloroform	ND	10	ug/kg	SW-846/8240		
Chloromethane	ND	10	ug/kg	SW-846/8240		
Dibromochloromethane	ND	10	ug/kg	SW-846/8240		
1,1-Dichloroethane	ND	10	ug/kg	SW-846/8240		
1,2-Dichloroethane	ND	10	ug/kg	SW-846/8240		
1,1-Dichloroethene	ND	10	ug/kg	SW-846/8240		
1,2-Dichloroethene (Total)	ND	10	ug/kg	SW-846/8240		
1,2-Dichloropropane	ND	10	ug/kg	SW-846/8240		
cis-1,3-Dichloropropene	ND	10	ug/kg	SW-846/8240		

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008750

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS

07/21/94

JOB NUMBER: 942183 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SB-12-04-04 (5'-7')
DATE SAMPLED.....: 05/11/94
TIME SAMPLED.....: 10:35
WORK DESCRIPTION...: DHA

LABORATORY I.D...: 942183-0001
DATE RECEIVED....: 05/13/94
TIME RECEIVED....: 10:00
REMARKS.....:

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
trans-1,3-Dichloropropene	ND	10	ug/kg	SW-846/8240		
Ethylbenzene	ND	10	ug/kg	SW-846/8240		
2-Hexanone	ND	10	ug/kg	SW-846/8240		
Methylene chloride	15	10	ug/kg	SW-846/8240		
4-Methyl-2-pentanone	ND	10	ug/kg	SW-846/8240		
Styrene	ND	10	ug/kg	SW-846/8240		
1,1,2,2-Tetrachloroethane	ND	10	ug/kg	SW-846/8240		
Tetrachloroethene	ND	10	ug/kg	SW-846/8240		
Toluene	ND	10	ug/kg	SW-846/8240		
1,1,1-Trichloroethane	ND	10	ug/kg	SW-846/8240		
1,1,2-Trichloroethane	ND	10	ug/kg	SW-846/8240		
Trichloroethene	ND	10	ug/kg	SW-846/8240		
Total Xylenes	ND	10	ug/kg	SW-846/8240		
Vinyl chloride	ND	10	ug/kg	SW-846/8240		

008751

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS

07/21/94

JOB NUMBER: 942183 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SB-12-05-05 (5'-7')
DATE SAMPLED.....: 05/11/94
TIME SAMPLED.....: 10:37
WORK DESCRIPTION...: DHA

LABORATORY I.D...: 942183-0002
DATE RECEIVED....: 05/13/94
TIME RECEIVED....: 10:00
REMARKS.....:

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Semi-volatile Organic Contaminants		*33		SW-846/8270	05/27/94	LLB
Acenaphthene	ND	330	ug/kg	SW-846/8270		
Acenaphthylene	ND	330	ug/kg	SW-846/8270		
Anthracene	ND	330	ug/kg	SW-846/8270		
Benzo(a)anthracene	ND	330	ug/kg	SW-846/8270		
Benzo(b)fluoranthene	ND	330	ug/kg	SW-846/8270		
Benzo(k)fluoranthene	ND	330	ug/kg	SW-846/8270		
Benzo(ghi)perylene	ND	330	ug/kg	SW-846/8270		
Benzo(a)pyrene	ND	330	ug/kg	SW-846/8270		
Bis(2-chloroethoxy)methane	ND	330	ug/kg	SW-846/8270		
Bis(2-chloroethyl)ether	ND	330	ug/kg	SW-846/8270		
Bis(2-chloroisopropyl)ether	ND	330	ug/kg	SW-846/8270		
Bis(2-ethylhexyl) phthalate	ND	330	ug/kg	SW-846/8270		
4-Bromophenyl phenyl ether	ND	330	ug/kg	SW-846/8270		
Butyl benzyl phthalate	ND	330	ug/kg	SW-846/8270		
Carbazole	ND	330	ug/kg	SW-846/8270		
4-Chloroaniline	ND	330	ug/kg	SW-846/8270		
4-Chloro-3-methylphenol	ND	330	ug/kg	SW-846/8270		
2-Chloronaphthalene	ND	330	ug/kg	SW-846/8270		
2-Chlorophenol	ND	330	ug/kg	SW-846/8270		
4-Chlorophenyl phenyl ether	ND	330	ug/kg	SW-846/8270		
Chrysene	ND	330	ug/kg	SW-846/8270		
2-Methylphenol	ND	330	ug/kg	SW-846/8270		
4-Methylphenol	ND	330	ug/kg	SW-846/8270		
Dibenzo(a,h)anthracene	ND	330	ug/kg	SW-846/8270		
Dibenzofuran	ND	330	ug/kg	SW-846/8270		
Di-n-butyl phthalate	ND	330	ug/kg	SW-846/8270		
1,2-Dichlorobenzene	ND	330	ug/kg	SW-846/8270		
1,3-Dichlorobenzene	ND	330	ug/kg	SW-846/8270		
1,4-Dichlorobenzene	ND	330	ug/kg	SW-846/8270		
3,3'-Dichlorobenzidine	ND	330	ug/kg	SW-846/8270		
2,4-Dichlorophenol	ND	330	ug/kg	SW-846/8270		
Diethyl phthalate	ND	330	ug/kg	SW-846/8270		
2,4-Dimethylphenol	ND	330	ug/kg	SW-846/8270		
Dimethyl phthalate	ND	330	ug/kg	SW-846/8270		
2,4-Dinitrophenol	ND	825	ug/kg	SW-846/8270		
2,4-Dinitrotoluene	ND	330	ug/kg	SW-846/8270		
2,6-Dinitrotoluene	ND	330	ug/kg	SW-846/8270		
Di-n-octyl phthalate	ND	330	ug/kg	SW-846/8270		
Fluoranthene	ND	330	ug/kg	SW-846/8270		
Fluorene	ND	330	ug/kg	SW-846/8270		
Hexachlorobenzene	ND	330	ug/kg	SW-846/8270		
Hexachlorobutadiene	ND	330	ug/kg	SW-846/8270		
Hexachlorocyclopentadiene	ND	330	ug/kg	SW-846/8270		

008752

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942183 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SB-12-05-05 (5'-7')
DATE SAMPLED.....: 05/11/94
TIME SAMPLED.....: 10:37
WORK DESCRIPTION...: DHA

LABORATORY I.D...: 942183-0002
DATE RECEIVED....: 05/13/94
TIME RECEIVED....: 10:00
REMARKS.....:

008753

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Hexachloroethane	ND	330	ug/kg	SW-846/8270		
Indenol(1,2,3-cd)pyrene	ND	330	ug/kg	SW-846/8270		
Isophorone	ND	330	ug/kg	SW-846/8270		
2-Methyl-4,6-dinitrophenol	ND	825	ug/kg	SW-846/8270		
2-Methylnaphthalene	ND	330	ug/kg	SW-846/8270		
Naphthalene	ND	330	ug/kg	SW-846/8270		
2-Nitroaniline	ND	825	ug/kg	SW-846/8270		
3-Nitroaniline	ND	825	ug/kg	SW-846/8270		
4-Nitroaniline	ND	825	ug/kg	SW-846/8270		
Nitrobenzene	ND	330	ug/kg	SW-846/8270		
2-Nitrophenol	ND	330	ug/kg	SW-846/8270		
4-Nitrophenol	ND	825	ug/kg	SW-846/8270		
N-Nitrosodiphenylamine	ND	330	ug/kg	SW-846/8270		
N-Nitrosodi-n-propylamine	ND	330	ug/kg	SW-846/8270		
Pentachlorophenol	ND	825	ug/kg	SW-846/8270		
Phenanthrene	ND	330	ug/kg	SW-846/8270		
Phenol	ND	330	ug/kg	SW-846/8270		
Pyrene	ND	330	ug/kg	SW-846/8270		
1,2,4-Trichlorobenzene	ND	330	ug/kg	SW-846/8270		
2,4,6-Trichlorophenol	ND	330	ug/kg	SW-846/8270		
2,4,5-Trichlorophenol	ND	825	ug/kg	SW-846/8270		
Semivolatile Organics Extraction	COMPLETE			SW-846 3550	05/25/94	CMG
Volatile Organic Contaminants		*1		SW-846/8240	05/25/94	MJH
Acetone	58	10	ug/kg	SW-846/8240		
Benzene	ND	10	ug/kg	SW-846/8240		
Bromodichloromethane	ND	10	ug/kg	SW-846/8240		
Bromoform	ND	10	ug/kg	SW-846/8240		
Bromomethane	ND	10	ug/kg	SW-846/8240		
2-Butanone (MEK)	ND	10	ug/kg	SW-846/8240		
Carbon disulfide	ND	10	ug/kg	SW-846/8240		
Carbon tetrachloride	ND	10	ug/kg	SW-846/8240		
Chlorobenzene	ND	10	ug/kg	SW-846/8240		
Chloroethane	ND	10	ug/kg	SW-846/8240		
Chloroform	ND	10	ug/kg	SW-846/8240		
Chloromethane	ND	10	ug/kg	SW-846/8240		
Dibromochloromethane	ND	10	ug/kg	SW-846/8240		
1,1-Dichloroethane	ND	10	ug/kg	SW-846/8240		
1,2-Dichloroethane	ND	10	ug/kg	SW-846/8240		
1,1-Dichloroethene	ND	10	ug/kg	SW-846/8240		
1,2-Dichloroethene (Total)	ND	10	ug/kg	SW-846/8240		
1,2-Dichloropropane	ND	10	ug/kg	SW-846/8240		
cis-1,3-Dichloropropene	ND	10	ug/kg	SW-846/8240		

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942183 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SB-12-05-05 (5'-7')
DATE SAMPLED.....: 05/11/94
TIME SAMPLED.....: 10:37
WORK DESCRIPTION...: DHA

LABORATORY I.D...: 942183-0002
DATE RECEIVED....: 05/13/94
TIME RECEIVED....: 10:00
REMARKS.....:

008754

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
trans-1,3-Dichloropropene	ND	10	ug/kg	SW-846/8240		
Ethylbenzene	ND	10	ug/kg	SW-846/8240		
2-Hexanone	ND	10	ug/kg	SW-846/8240		
Methylene chloride	ND	10	ug/kg	SW-846/8240		
4-Methyl-2-pentanone	ND	10	ug/kg	SW-846/8240		
Styrene	ND	10	ug/kg	SW-846/8240		
1,1,2,2-Tetrachloroethane	ND	10	ug/kg	SW-846/8240		
Tetrachloroethene	ND	10	ug/kg	SW-846/8240		
Toluene	ND	10	ug/kg	SW-846/8240		
1,1,1-Trichloroethane	ND	10	ug/kg	SW-846/8240		
1,1,2-Trichloroethane	ND	10	ug/kg	SW-846/8240		
Trichloroethene	ND	10	ug/kg	SW-846/8240		
Total Xylenes	ND	10	ug/kg	SW-846/8240		
Vinyl chloride	ND	10	ug/kg	SW-846/8240		

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WESTERN ATLAS

Core Laboratories

QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942183 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Semi-volatile Organic Contaminants DATE ANALYZED: 05/27/94 TIME ANALYZED: 14:45 METHOD: SW-846/8270 QC NUMBER:978147

BLANKS

TEST DESCRIPTION	ANALY SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Phenol	MB	SON052594S	1	<10	10	ug/L
2-Chlorophenol	MB	SON052594S	1	<10	10	ug/L
1,4-Dichlorobenzene	MB	SON052594S	1	<10	10	ug/L
N-Nitrosodi-n-propylamine	MB	SON052594S	1	<10	10	ug/L
1,2,4-Trichlorobenzene	MB	SON052594S	1	<10	10	ug/L
4-Chloro-3-methylphenol	MB	SON052594S	1	<10	10	ug/L
Acenaphthene	MB	SON052594S	1	<10	10	ug/L
4-Nitrophenol	MB	SON052594S	1	<25	25	ug/L
2,4-Dinitrotoluene	MB	SON052594S	1	<10	10	ug/L
Pentachlorophenol	MB	SON052594S	1	<25	25	ug/L
Pyrene	MB	SON052594S	1	<10	10	ug/L
Acenaphthylene	MB	SON052594S	1	<10	10	ug/L
Anthracene	MB	SON052594S	1	<10	10	ug/L
Benzo(a)anthracene	MB	SON052594S	1	<10	10	ug/L
Benzo(b)fluoranthene	MB	SON052594S	1	<10	10	ug/L
Benzo(k)fluoranthene	MB	SON052594S	1	<10	10	ug/L
Benzo(ghi)perylene	MB	SON052594S	1	<10	10	ug/L
Benzo(a)pyrene	MB	SON052594S	1	<10	10	ug/L
Bis(2-chloroethoxy)methane	MB	SON052594S	1	<10	10	ug/L
Bis(2-chloroethyl)ether	MB	SON052594S	1	<10	10	ug/L
Bis(2-chloroisopropyl)ether	MB	SON052594S	1	<10	10	ug/L
Bis(2-ethylhexyl) phthalate	MB	SON052594S	1	<10	10	ug/L
4-Bromophenyl phenyl ether	MB	SON052594S	1	<10	10	ug/L
Butyl benzyl phthalate	MB	SON052594S	1	<10	10	ug/L
Carbazole	MB	SON052594S	1	<10	10	ug/L
4-Chloroaniline	MB	SON052594S	1	<10	10	ug/L
2-Chloronaphthalene	MB	SON052594S	1	<10	10	ug/L
4-Chlorophenyl phenyl ether	MB	SON052594S	1	<10	10	ug/L
Chrysene	MB	SON052594S	1	<10	10	ug/L
2-Methylphenol	MB	SON052594S	1	<10	10	ug/L
4-Methylphenol	MB	SON052594S	1	<10	10	ug/L
Dibenzo(a,h)anthracene	MB	SON052594S	1	<10	10	ug/L
Dibenzofuran	MB	SON052594S	1	<10	10	ug/L
Di-n-butyl phthalate	MB	SON052594S	1	<10	10	ug/L
1,2-Dichlorobenzene	MB	SON052594S	1	<10	10	ug/L
1,3-Dichlorobenzene	MB	SON052594S	1	<10	10	ug/L
3,3'-Dichlorobenzidine	MB	SON052594S	1	<10	10	ug/L
2,4-Dichlorophenol	MB	SON052594S	1	<10	10	ug/L
Diethyl phthalate	MB	SON052594S	1	<10	10	ug/L
2,4-Dimethylphenol	MB	SON052594S	1	<10	10	ug/L
Dimethyl phthalate	MB	SON052594S	1	<10	10	ug/L
2,4-Dinitrophenol	MB	SON052594S	1	<25	25	ug/L
2,6-Dinitrotoluene	MB	SON052594S	1	<10	10	ug/L
Di-n-octyl phthalate	MB	SON052594S	1	<10	10	ug/L
Fluoranthene	MB	SON052594S	1	<10	10	ug/L
Fluorene	MB	SON052594S	1	<10	10	ug/L

008755

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WESTERN ATLAS

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QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942183 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Semi-volatile Organic Contaminants DATE ANALYZED: 05/27/94 TIME ANALYZED: 14:45 METHOD: SW-846/8270 QC NUMBER:978147

BLANKS

TEST DESCRIPTION	ANALY SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Hexachlorobenzene	MB	SON052594S	1	<10	10	ug/L
Hexachlorobutadiene	MB	SON052594S	1	<10	10	ug/L
Hexachlorocyctopentadiene	MB	SON052594S	1	<10	10	ug/L
Hexachloroethane	MB	SON052594S	1	<10	10	ug/L
Indenol(1,2,3-cd)pyrene	MB	SON052594S	1	<10	10	ug/L
Isophorone	MB	SON052594S	1	<10	10	ug/L
2-Methyl-4,6-dinitrophenol	MB	SON052594S	1	<25	25	ug/L
2-Methylnaphthalene	MB	SON052594S	1	<10	10	ug/L
Naphthalene	MB	SON052594S	1	<10	10	ug/L
2-Nitroaniline	MB	SON052594S	1	<25	25	ug/L
3-Nitroaniline	MB	SON052594S	1	<25	25	ug/L
4-Nitroaniline	MB	SON052594S	1	<25	25	ug/L
Nitrobenzene	MB	SON052594S	1	<10	10	ug/L
2-Nitrophenol	MB	SON052594S	1	<10	10	ug/L
N-Nitrosodiphenylamine	MB	SON052594S	1	<10	10	ug/L
Phenanthrene	MB	SON052594S	1	<10	10	ug/L
,6-Trichlorophenol	MB	SON052594S	1	<10	10	ug/L
,5-Trichlorophenol	MB	SON052594S	1	<25	25	ug/L

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Semi-volatile Organic Contaminants DATE ANALYZED: 05/27/94 TIME ANALYZED: 14:45 METHOD: SW-846/8270 QC NUMBER:978147

REFERENCE STANDARDS

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	TRUE VALUE	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
2-Fluorophenol	SS	942183-001	1	106	200	53	10	ug/L
	SS	942183-002	1	101	200	50	10	ug/L
	SS	942184-001	1	118	200	59	10	ug/L
	SS	942184-002	1	125	200	62	10	ug/L
Phenol-d5	SS	942183-001	1	102	200	51	10	ug/L
	SS	942183-002	1	97	200	48	10	ug/L
	SS	942184-001	1	117	200	58	10	ug/L
	SS	942184-002	1	121	200	60	10	ug/L
Nitrobenzene-d5	SS	942183-001	1	59	100	59	10	ug/L
	SS	942183-002	1	57	100	57	10	ug/L
	SS	942184-001	1	65	100	65	10	ug/L
	SS	942184-002	1	71	100	71	10	ug/L
2-Fluorobiphenyl	SS	942183-001	1	63	100	63	10	ug/L
	SS	942183-002	1	59	100	59	10	ug/L
	SS	942184-001	1	69	100	69	10	ug/L
	SS	942184-002	1	71	100	71	10	ug/L
,6-tribromophenol	SS	942183-001	1	108	200	54	10	ug/L
	SS	942183-002	1	101	200	50	10	ug/L
	SS	942184-001	1	118	200	59	10	ug/L
	SS	942184-002	1	111	200	56	10	ug/L
p-Terphenyl-d14	SS	942183-001	1	66	100	66	10	ug/L
	SS	942183-002	1	60	100	60	10	ug/L
	SS	942184-001	1	67	100	67	10	ug/L
	SS	942184-002	1	64	100	64	10	ug/L

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QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942183 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Semi-volatile Organic Contaminants DATE ANALYZED: 05/27/94 TIME ANALYZED: 14:45 METHOD: SW-846/8270 QC NUMBER:978147

MATRIX SPIKES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Phenol	MS	942301-001	1	67	0	100	67	10	ug/L
2-Chlorophenol	MS	942301-001	1	66	0	100	66	10	ug/L
1,4-Dichlorobenzene	MS	942301-001	1	57	0	100	57	10	ug/L
N-Nitrosodi-n-propylamine	MS	942301-001	1	63	0	100	63	10	ug/L
1,2,4-Trichlorobenzene	MS	942301-001	1	60	0	100	60	10	ug/L
4-Chloro-3-methylphenol	MS	942301-001	1	66	0	100	66	10	ug/L
Acenaphthene	MS	942301-001	1	58	0	100	58	10	ug/L
4-Nitrophenol	MS	942301-001	1	56	0	100	56	25	ug/L
2,4-Dinitrotoluene	MS	942301-001	1	51	0	100	51	10	ug/L
Pentachlorophenol	MS	942301-001	1	<25	<25	<25	NC	25	ug/L
Pyrene	MS	942301-001	1	54	0	100	54	10	ug/L

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Semi-volatile Organic Contaminants DATE ANALYZED: 05/27/94 TIME ANALYZED: 14:45 METHOD: SW-846/8270 QC NUMBER:978147

DUPLICATES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (|A-B|)	DETECTION LIMITS	UNITS OF MEASURE
Phenol	MSD	942301-001	1	67	78	15	10	ug/L
2-Chlorophenol	MSD	942301-001	1	66	74	11	10	ug/L
1,4-Dichlorobenzene	MSD	942301-001	1	57	56	2	10	ug/L
N-Nitrosodi-n-propylamine	MSD	942301-001	1	63	70	11	10	ug/L
1,2,4-Trichlorobenzene	MSD	942301-001	1	60	57	5	10	ug/L
4-Chloro-3-methylphenol	MSD	942301-001	1	66	70	6	10	ug/L
Acenaphthene	MSD	942301-001	1	58	58	0	10	ug/L
4-Nitrophenol	MSD	942301-001	1	56	62	6	25	ug/L
2,4-Dinitrotoluene	MSD	942301-001	1	51	53	4	10	ug/L
Pentachlorophenol	MSD	942301-001	1	<25	<25	NC	25	ug/L
Pyrene	MSD	942301-001	1	54	57	5	10	ug/L

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008759

8759

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QUALITY CONTROL REPORT
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JOB NUMBER: 942183 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Volatile Organic Contaminants DATE ANALYZED: 05/25/94 TIME ANALYZED: 14:51 METHOD: SW-846/8240 QC NUMBER:978150

BLANKS

TEST DESCRIPTION	ANALY	SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Benzene	IB		GCMS052594	1	<10	10	ug/L
1,1-Dichloroethene	IB		GCMS052594	1	<10	10	ug/L
Trichloroethene	IB		GCMS052594	1	<10	10	ug/L
Toluene	IB		GCMS052594	1	<10	10	ug/L
Chlorobenzene	IB		GCMS052594	1	<10	10	ug/L
Acetone	IB		GCMS052594	1	<10	10	ug/L
Bromodichloromethane	IB		GCMS052594	1	<10	10	ug/L
Bromoform	IB		GCMS052594	1	<10	10	ug/L
Bromomethane	IB		GCMS052594	1	<10	10	ug/L
2-Butanone (MEK)	IB		GCMS052594	1	<10	10	ug/L
Carbon disulfide	IB		GCMS052594	1	<10	10	ug/L
Carbon tetrachloride	IB		GCMS052594	1	<10	10	ug/L
Chloroethane	IB		GCMS052594	1	<10	10	ug/L
Chloroform	IB		GCMS052594	1	<10	10	ug/L
Chloromethane	IB		GCMS052594	1	<10	10	ug/L
Dibromochloromethane	IB		GCMS052594	1	<10	10	ug/L
-Dichloroethane	IB		GCMS052594	1	<10	10	ug/L
Dichloroethane	IB		GCMS052594	1	<10	10	ug/L
1,2-Dichloroethene (Total)	IB		GCMS052594	1	<10	10	ug/L
1,2-Dichloropropane	IB		GCMS052594	1	<10	10	ug/L
cis-1,3-Dichloropropene	IB		GCMS052594	1	<10	10	ug/L
trans-1,3-Dichloropropene	IB		GCMS052594	1	<10	10	ug/L
Ethylbenzene	IB		GCMS052594	1	<10	10	ug/L
2-Hexanone	IB		GCMS052594	1	<10	10	ug/L
Methylene chloride	IB		GCMS052594	1	<10	10	ug/L
4-Methyl-2-pentanone	IB		GCMS052594	1	<10	10	ug/L
Styrene	IB		GCMS052594	1	<10	10	ug/L
1,1,2,2-Tetrachloroethane	IB		GCMS052594	1	<10	10	ug/L
Tetrachloroethene	IB		GCMS052594	1	<10	10	ug/L
1,1,1-Trichloroethane	IB		GCMS052594	1	<10	10	ug/L
1,1,2-Trichloroethane	IB		GCMS052594	1	<10	10	ug/L
Total Xylenes	IB		GCMS052594	1	<10	10	ug/L
Vinyl chloride	IB		GCMS052594	1	<10	10	ug/L

008760

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Volatile Organic Contaminants DATE ANALYZED: 05/25/94 TIME ANALYZED: 14:51 METHOD: SW-846/8240 QC NUMBER:978150

REFERENCE STANDARDS

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	TRUE VALUE	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
1,2-Dichloroethane-d4	SS	942183-01	1	42	50	84	10	ug/L
	SS	942183-02	1	45	50	90	10	ug/L
Toluene-d8	SS	942183-01	1	51	50	102	10	ug/L
	SS	942183-02	1	51	50	102	10	ug/L
Bromofluorobenzene	SS	942183-01	1	43	50	86	10	ug/L
	SS	942183-02	1	44	50	88	10	ug/L

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8761

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Volatile Organic Contaminants DATE ANALYZED: 05/25/94 TIME ANALYZED: 14:51 METHOD: SW-846/8240 QC NUMBER:978150

MATRIX SPIKES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Benzene	MS	942498-01	1	48	0	50	96	10	ug/L
1,1-Dichloroethene	MS	942498-01	1	52	0	50	104	10	ug/L
Trichloroethene	MS	942498-01	1	50	0	50	100	10	ug/L
Toluene	MS	942498-01	1	51	0	50	102	10	ug/L
Chlorobenzene	MS	942498-01	1	49	0	50	98	10	ug/L

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Volatile Organic Contaminants DATE ANALYZED: 05/25/94 TIME ANALYZED: 14:51 METHOD: SW-846/8240 QC NUMBER:978150

DUPLICATES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (|A-B|)	DETECTION LIMITS	UNITS OF MEASURE
Benzene	MSD	942498-01	1	48	46	2	10	ug/L
1,1-Dichloroethene	MSD	942498-01	1	52	49	6	10	ug/L
Trichloroethene	MSD	942498-01	1	50	48	2	10	ug/L
Toluene	MSD	942498-01	1	51	47	8	10	ug/L
Chlorobenzene	MSD	942498-01	1	49	48	1	10	ug/L

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QUALITY ASSURANCE FOOTER
REPORT DATE

ND = Analyte Not Detected above the quantitation limit

The detection limit and units reported in the Quality Assurance (QA) Report may not coincide with the values reported in the Analytical Report because the data presented in the QA Report may not account for sample preparation and dilutions performed.

The date and time analyzed on the Quality Assurance Report may not reflect the actual date and/or time of analysis.

Results for soil samples are reported on a wet weight basis (unless otherwise indicated).

Cited Methods are obtained from the following documents:
- EPA 600/4-79-020, Methods for Chemical Analysis of Water and Wastes, March 1983
- Standard Methods for the Chemical Analysis of Water and Wastewater, 17th Edition, 1989
- Federal Register, Friday, October 26, 1984 (40 CRF Part 136)
- Standard Methods for the Examination of Water and Wastewater, 16th Edition, 1985

Numerical values expressed in the "LIMITS/*DILUTION" column are Method Quantitation Limits (MQL). A final result of "ND" should be considered as "less than the MQL" (<MQL) unless it is noted otherwise.

008764

SUBCONTRACTED LABORATORY LOCATIONS

For analysis performed by a subcontract laboratory, an "*" and the designated laboratory code is indicated in the "TECHN" column of the laboratory test results report.

Core Laboratories:		Other Laboratories:	
Anaheim	* A N	Saybolt	* 0 1
Aurora	* A U	Caleb Brett	* 0 2
Carrollton	* C R	Maxim	* 0 3
Casper	* C A	Southwestern Labs	* 0 4
Corpus Christi	* C C	Analytichem	* 0 5
Hollister	* H R	Other	* 0 0
Houston	* H P		
Long Beach	* L B		
New Orleans	* N O		

QUALITY ASSURANCE REPORT CODES

NC = Not Calculable due to values lower than the reporting limit

BLANKS	REFERENCE STANDARDS	SPIKES	DUPLICATES
MB = Method Blank	CS = Calibration Standard	MS = Matrix Spike	MSD = Matrix Spike Duplicate
RB = Reagent Blank	RS = Reference Standard	PDS = Post-Digest Spike	SD = Sample Duplicate
IB = Instrument Blan	ICV = Initial Calib. Verification	BS = Blank Spike	MD = Method Duplicate
ICB = Initial Calib. Blank	CCV = Continuing Calib. Verification	SS = Surrogate Spike	
CCB = Continuing Calib. Blank	LCS = Laboratory Control Standard		

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No. 00662

WESTERN ATLAS

CORE LABORATORIES

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: RMT / JN - DALLAS	PROJECT NAME/NUMBER: DHA
SEND REPORT TO: SAME	BILLING INFORMATION
ADDRESS: 12655 NORTHCENT. EXP. SUITE 323 DALLAS, TX. 75243	BILL TO: ADDRESS: SAME
PHONE: (214) 490-8696	PHONE:
FAX: 490-8695	FAX: PO NO.:

LAB JOB NO. 942183

SAMPLE NO.	SAMPLE ID	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE	PRES.	NUMBER OF CONTAINERS	TCL	TAL	REMARKS / PRECAUTION
1	RI-SB-12-01 (6"-12") - 01	5/11/94	10:15A	SOIL	9 OZ	NONE			✓	Hold For Analysis
2	RI-SB-12-02-02 (0-24")	5/11/94	10:22	SOIL	9 OZ	NONE			✓	
3	RI-SB-12-03-03 (5'-7')	5/11/94	10:30	SOIL	9 OZ	NONE			✓	
4	RI-SB-12-04-04 (5'-7')	5-11-94	10:35	SOIL	9 OZ	NONE		✓		
5	RI-SB-12-05-05 (5'-7')	5-11-94	10:37	SOIL	9 OZ	NONE		✓		
6	RI-SB-12-06-06 (10'-12')	5-11-94	10:45	SOIL	9 OZ	NONE			✓	Hold For Analysis
7	RI-SB-12-07-07 (22'-24')	5-11-94	11:05	SOIL	9 OZ	NONE			✓	
~~8~~	~~RI-SB-1~~									
~~9~~										
~~10~~										

SAMPLER: SHIPMENT METHOD: AIRBILL NO.:

REQUIRED TURNAROUND: [ ] SAME DAY [ ] 24 HOURS [ ] 48 HOURS [ ] 72 HOURS [ ] 5 DAYS [ ] 10 DAYS [ ] ROUTINE OTHER

1. RELINQUISHED BY: SIGNATURE: Jim Vickery	DATE: 5/12/94	2. RELINQUISHED BY: SIGNATURE: Federal Express	DATE	3. RELINQUISHED BY: SIGNATURE:	DATE
PRINTED NAME/COMPANY: Jim Vickery	TIME: 1:30 p.	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY: SIGNATURE: C. Ed Fox	DATE: 5/12/94	2. RECEIVED BY: SIGNATURE: Jessica Morton	DATE: 5/13/94	3. RECEIVED BY: SIGNATURE:	DATE
PRINTED NAME/COMPANY:	TIME: 1:30 PM	PRINTED NAME/COMPANY: Jessica Morton Core Lab	TIME: 1000	PRINTED NAME/COMPANY:	TIME

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AROUND MAY REQUIRE SURCHARGE

California ... Autry Way California 92805 ... 1094 ...

[ ] Long Beach, California 3700 Cherry Avenue Long Beach, California 90807 (310) 595 8401 (800) 814 3433

[ ] Denver (Aurora), Colorado 10703 E. Bethany Drive Aurora, Colorado 80014 (303) 751 1780 (800) 972 2673

[ ] Casper, Wyoming 420 West 1st Street Casper, Wyoming 82601 (307) 235 5741 ... 0603

[ ] Houston, Texas 7216 Mosley Road Houston, Texas 77075 (713) 943 9776 (800) 734 2673

[ ] Corpus Christi, Texas 1733 North Padre Island Drive Corpus Christi, Texas 78408 (512) 289 2673 (800) 548 8228

[ ] Lake Charles, Louisi... 3645 Beglis Parkway Sulphur, Louisiana 7... (318) 583 4926 ... 259 4926

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[GC/MS LAB SEMIVOLATILES]

[INTERNAL STANDARD CHECK REPORT]

94283-01

SAMPLE FILE = >A4424
CAL CHECK FILE = >SK450
DATE AND TIME OF ANALYSIS = 5/27/94 13:00
MISCELLANEOUS = 05 25 94 SOLID 30.0g:1ml
METHOD = BNAMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER GRP

I. Areas

Name of the BNA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
1,4-Dichlorobenz-d4	25344	24118	12059	48236	OK
Naphthalene-d8	101626	102674	51337	205348	OK
Acenaphthene-d10	98197	97899	48950	195798	OK
Phenanthrene-d10	241925	244807	122403	489614	OK
Chrysene-d12	386865	364000	182000	728000	OK
-ylene-d12	469395	484426	242213	968852	OK

II. Retention Times

Name of the BNA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
1,4-Dichlorobenz-d4	8.14	8.14	7.64	8.64	OK
Naphthalene-d8	11.60	11.58	11.08	12.08	OK
Acenaphthene-d10	16.43	16.42	15.92	16.92	OK
Phenanthrene-d10	20.43	20.42	19.92	20.92	OK
Chrysene-d12	27.73	27.74	27.24	28.24	OK
Perylene-d12	31.39	31.40	30.90	31.90	OK

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[GC/MS OPERATOR REPORT]

[GC/MS LAB VOLATILES]

[INTERNAL STANDARD CHECK REPORT]

942183-01

SAMPLE FILE = >B0846
CAL CHECK FILE = >BC066
DATE AND TIME OF ANALYSIS = 5/25/94 15:17
MISCELLANEOUS = (VTCL) 5.0g PURGE
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

I. Areas

Name of the VOA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
Bromochlorobenzene	23183	30149	15074	60298	OK
1,4-Difluorobenzene	88610	131013	65506	262026	OK
Chlorobenzene-d5	66262	101898	50949	203796	OK

II. Retention Times

Name of the VOA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
Bromochloromethane	8.15	8.13	7.63	8.63	OK
1,4-Difluorobenzene	10.40	10.36	9.86	10.86	OK
Chlorobenzene-d5	18.47	18.44	17.94	18.94	OK

[GC/MS LAB SEMIVOLATILES]

[INTERNAL STANDARD CHECK REPORT]

942183-2

SAMPLE FILE = >A4425
CAL CHECK FILE = >SK450
DATE AND TIME OF ANALYSIS = 5/27/94 13:44
MISCELLANEOUS = 05 25 94 SOLID 30.0g:1ml
METHOD = BNAMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER GRP

I. Areas

Name of the BNA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
1,4-Dichlorobenz-d4	24469	24118	12059	48236	OK
Naphthalene-d8	102894	102674	51337	205348	OK
Acenaphthene-d10	98200	97899	48950	195798	OK
Phenanthrene-d10	243587	244807	122403	489614	OK
Chrysene-d12	379925	364000	182000	728000	OK
Perylene-d12	489571	484426	242213	968852	OK

II. Retention Times

Name of the BNA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
1,4-Dichlorobenz-d4	8.12	8.14	7.64	8.64	OK
Naphthalene-d8	11.59	11.58	11.08	12.08	OK
Acenaphthene-d10	16.42	16.42	15.92	16.92	OK
Phenanthrene-d10	20.42	20.42	19.92	20.92	OK
Chrysene-d12	27.72	27.74	27.24	28.24	OK
Perylene-d12	31.37	31.40	30.90	31.90	OK

[GC/MS OPERATOR REPORT]

[GC/MS LAB VOLATILES]

[INTERNAL STANDARD CHECK REPORT]

942183-02

SAMPLE FILE = >B0847
CAL CHECK FILE = >BC066
DATE AND TIME OF ANALYSIS = 5/25/94 15:56
MISCELLANEOUS = (VTCL) 5.0g PURGE
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

I. Areas

Name of the VOA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
Bromochlorobenzene	20584	30149	15074	60298	OK
1,4-Difluorobenzene	79824	131013	65506	262026	OK
Chlorobenzene-d5	60978	101898	50949	203796	OK

... Retention Times

Name of the VOA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
Bromochloromethane	8.16	8.13	7.63	8.63	OK
1,4-Difluorobenzene	10.39	10.36	9.86	10.86	OK
Chlorobenzene-d5	18.48	18.44	17.94	18.94	OK

GC/MS PERFORMANCE STANDARD

Decafluorotriphenylphospine (DFTPP)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	Appropriate Peak	Status
51	30-60% of mass 198	55.41	55.41	Ok
68	Less than 2% of mass 69	0.00	0.00	Ok
69	(reference only)	68.68	68.68	Ok
70	Less than 2% of mass 69	.68	.99	Ok
127	40-60% of mass 198	44.47	44.47	Ok
197	Less than 1% of mass 198	0.00	0.00	Ok
198	Base peak, 100% relative abundance	100.00	100.00	Ok
199	5-9% of mass 198	6.93	6.93	Ok
275	10-30% of mass 198	22.19	22.19	Ok
365	Greater than 1% of mass 198	3.57	3.57	Ok
441	0-100% of mass 443	10.40	80.94	Ok
442	Greater than 40% of mass 198	74.24	74.24	Ok
443	17-23% of mass 442	12.85	17.31	Ok

Injection Date: 05/27/94
Injection Time: 09:59
Data File: >SD696
Scan: 35

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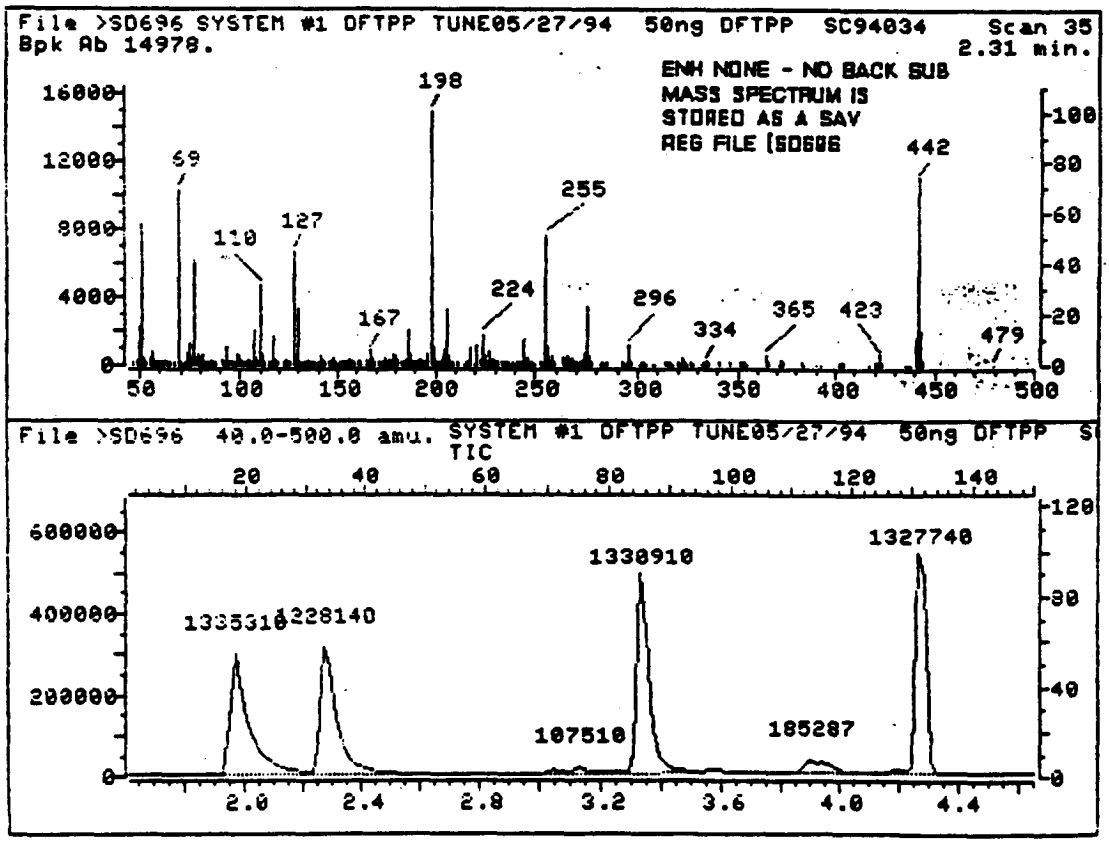

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LLB
05-27-9

35 NRM

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File: >SD696 Scan #: 35 Retn. time: 2.31

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
40.95	1.262	101.90	.454	162.00	.334	228.00	1.309	302.05	.260
41.85	.327	103.05	.928	165.10	1.843	229.05	1.289	303.05	.561
42.95	1.789	104.05	1.128	166.05	.734	229.85	.681	303.95	.134
43.95	7.965	105.05	1.135	167.05	5.568	231.05	.407	308.10	.134
44.95	.614	105.95	.521	168.05	2.096	231.95	.320	308.70	.174
46.85	.414	106.95	12.939	169.05	.527	234.05	.628	314.10	.254
48.95	1.248	108.05	1.936	171.05	.240	235.05	.527	314.90	.935
49.95	14.635	109.05	.728	172.05	.574	235.95	.327	316.00	.441
50.95	55.408	110.05	31.253	173.15	.641	237.15	.441	317.00	.147
51.95	2.424	111.05	4.260	174.05	1.028	238.35	.134	321.00	.227
52.95	.487	112.05	.808	175.05	1.903	239.05	.401	322.00	.127
55.05	.928	114.95	.407	176.05	.734	240.05	.214	323.05	1.929
55.90	2.143	115.95	.841	177.05	1.182	240.95	.354	324.05	.481
56.90	4.567	117.05	10.335	178.15	.387	242.05	.728	324.75	.087
58.10	.287	118.05	1.122	179.05	4.039	243.15	.821	325.05	.107
59.00	.354	119.00	.287	180.05	2.831	244.00	9.908	326.85	.554
59.90	.461	122.00	.815	181.05	1.289	245.10	1.228	328.05	.167
60.90	.768	123.00	1.455	183.00	.274	246.00	2.143	331.85	.160
61.90	.821	124.00	.788	184.00	.274	247.10	.507	332.45	.120
63.00	1.809	125.10	.688	185.00	1.696	248.00	.127	333.05	.320
64.10	.361	127.00	44.465	186.10	12.999	249.00	.381	334.05	1.342
65.00	.915	128.10	3.432	187.10	3.806	249.80	.194	335.05	.314
67.10	.354	129.00	21.779	188.10	.414	253.10	.347	340.90	.274
69.00	68.681	130.00	2.030	189.10	.801	255.10	50.881	346.00	.461
70.10	.681	131.10	.688	191.10	.461	256.00	6.703	352.00	.581
70.90	.474	132.00	.808	192.00	1.142	257.00	.641	353.00	.441
71.95	.207	133.10	.494	193.10	1.175	258.10	3.058	353.95	.608
72.95	.868	134.10	.835	194.10	.314	259.10	.421	354.75	.154
73.95	4.066	135.05	1.556	195.00	.227	263.85	2.096	364.85	3.372
74.95	7.778	135.95	.554	196.10	3.752	265.05	1.582	365.95	.427
76.05	2.150	136.95	.581	198.05	100.000	265.85	3.225	370.90	.160
76.95	40.947	138.05	.227	198.95	6.930	266.85	.280	371.90	1.322
78.05	2.677	139.15	.167	200.05	.875	267.95	1.929	373.00	.280
78.95	3.632	140.15	.361	201.75	.921	268.95	.220	383.00	.421
80.05	2.076	141.05	2.904	202.95	1.015	269.85	.728	383.80	.147
80.95	3.659	142.05	1.108	204.05	3.512	271.05	.194	390.05	.207
82.05	.714	142.95	.661	205.05	5.548	271.85	.220	391.95	.073
82.95	1.021	145.15	.207	206.05	21.558	273.05	1.682	401.90	.527
84.05	.634	146.05	.481	207.05	3.051	274.05	3.652	402.70	.501
85.05	.728	147.05	1.369	208.05	.821	275.05	22.186	402.90	.487
85.95	1.302	148.05	2.544	209.15	.387	276.00	2.831	403.80	.260
87.00	.921	149.05	.634	211.15	1.035	277.00	2.203	416.95	.087
87.90	.247	149.80	.140	214.20	.080	277.90	.347	420.75	.467
91.00	1.168	151.00	.434	215.00	.280	281.90	.093	421.85	.501
92.00	.908	151.70	.240	216.10	.340	283.00	.260	422.85	3.712
93.00	6.249	152.10	.234	217.00	6.142	284.00	.167	423.85	.815
94.00	.387	153.00	.975	218.00	.855	285.20	.434	435.30	.073
95.00	.688	154.00	.608	220.00	.187	293.05	.347	437.30	.087
96.00	.554	155.00	1.415	221.10	7.144	293.85	.093	437.70	.073
97.00	.581	156.10	1.990	223.00	1.562	294.05	.093	440.80	10.402

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	3 178 [illegible] 95	7 710 442.80	12 [illegible]2
[illegible]	[illegible]	150.19	454 [illegible]	387 296 95	.999 443 80	1 402
181 00	1 [illegible]	161 10	1 148 227.10	5.061 301 05	.087 479.10	.080

Instrument ID: SV-MS1 Analyzed on: 5/27/94 9:59

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DATA FILE NAME = BK450:01
DATE AND TIME OF ANALYSIS = 5/27/94 10:18
SAMPLE = Sys #1 Calib. Check
MISCELLANEOUS = 05 27 94 50ug/L 8270/625 Cmpds. SC930281
METHOD = BNAMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER GRP

CCC COMPOUND	DAILY CAL RF	5-POINT AVE RF	%D
Pentachlorophenol	.2592	.2995	13.44
1,4-Dichlorobenzene	1.4539	1.4372	1.16
2-Nitrophenol	.2144	.2067	3.71
2,4-Dichlorophenol	.3873	.3751	3.15
Hexachlorobutadiene	.3885	.3890	.13
4-Chloro-3-methylphenol	.4069	.3582	13.60
2,4,6-Trichlorophenol	.4560	.4695	2.88
Acenaphthene	1.1520	1.1138	3.43
N-Nitrosodiphenylamine	.3901	.3310	17.86
Fluoranthene	1.4451	1.4789	2.29
Di-n-octylphthalate	1.1153	.9186	21.41
Benzo(a)pyrene	1.0570	.8862	19.27
Phenol	1.1677	1.1548	1.12

SPCC COMPOUND	DAILY RF
N-Nitroso-di-n-propylamine	.9993
Hexachlorocyclopentadiene	.5050
2,4-Dinitrophenol	.2631
4-Nitrophenol	.2303

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DAILY CALIBRATION FOR BNA'S PASSED ALL CCC AND SPCC CRITERIA

HE RF AND RT VALUES WILL AUTOMATICALLY BE UPDATED IN YOUR IDFILE

05-27-94
LLB

008773

8773

DATA FILE NAME = SK450::01
DATE AND TIME OF ANALYSIS = 5/27/94 10:10
SAMPLE = Sys #1 Calib. Check
MISCELLANEOUS = 05 27 94 50ug/L 8270/625 Cmpds SC930281
METHOD = BNAMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER GRP

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Compound Name	Retention Times: RRT FOUND	RRT IN THE IDFILE	RT DIFF-ERENCE	Response Factors: RF FOUND	AVE. RF FROM 5-POINT	RATIO RF FOUND TO RF IN IDFILE
Pyridine	.22833	.22834	-.0001	.90883	.7856	.98183
n-Nitrosodimethylamine	.23334	.23335	-.0001	.50910	.4683	1.1176
Aniline	.91975	.91974	.00010	1.2984	1.2841	.97494
bis(2-Chloroethyl)ether	.91975	.91974	.00010	1.2984	1.2798	.97802
1,3-Dichlorobenzene	.98244	.98244	.00005	1.4165	1.4034	.94136
Benzyl alcohol	1.0852	1.0652	.16327	.63388	.5551	71.106
1,2-Dichlorobenzene	1.0626	1.0652	-.0203	1.4901	1.4664	.96933
2-Methylphenol	1.1504	1.1529	-.0202	1.0802	1.0267	.83069
bis(2-Chloroisopropyl)ether	1.1303	1.1303	.00025	2.5903	2.6962	.99019
4-Methylphenol	1.2005	1.2030	-.0203	1.0494	1.0770	.88462
Hexachloroethane	1.1604	1.1604	.00025	.78537	.7670	1.0130
Nitrobenzene	.85035	.85034	.00013	.47014	.3531	.97917
Isophorone	.90842	.90842	.00010	.61524	.6456	1.0039
Nitrophenol	.92427	.92426	.00012	.21436	.2067	1.0382
4-Dimethylphenol	.96123	.96122	.00019	.25943	.2519	.97539
Benzoic acid	1.0194	1.0194	.00010	.29187	.2580	1.0708
bis(2-Chloroethoxy)methane	.97532	.97532	.00007	.41692	.4135	1.0501
2,4-Dichlorophenol	.98589	.98589	.00008	.38729	.3751	1.0359
Naphthalene	1.0053	1.0053	.00008	.94814	.9296	1.0350
4-Chloroaniline	1.0405	1.0405	.00010	.42547	.3600	1.0766
Hexachlorobutadiene	1.0546	1.0546	.00013	.38849	.3890	1.0434
2-Methylnaphthalene	1.1708	1.1690	.02022	.83771	1.0273	1.1476
1-Methylnaphthalene	1.1937	1.1937	-.0002	.77542	.7286	1.0859
Hexachlorocyclopentadiene	.86455	.86455	-.0002	.50495	.4915	1.1807
2,4,6-Trichlorophenol	.88567	.88567	-.0001	.45599	.4695	.97685
2,4,5-Trichlorophenol	.89314	.89313	-.0001	.52633	.4911	.97865
2-Chloronaphthalene	.90559	.90559	-.0002	1.0707	1.0541	.99838
2-Nitroaniline	.94036	.94036	-.0001	.40856	.3868	.98577
Dimethylphthalate	.98135	.98135	-.0001	1.4771	1.4332	.96984
Acenaphthylene	.97389	.97389	-.0001	1.8143	1.7238	1.0105
2,6-Dinitrotoluene	.99006	.99005	-.0001	.36259	.3337	1.0184
3-Nitroaniline	1.0124	1.0112	.02025	.34413	.2798	1.0478
2,4-Dinitrophenol	1.0273	1.0273	-.0001	.26314	.2086	1.3104
Dibenzofuran	1.0336	1.0323	.02035	1.8097	1.7128	1.0108
Diethylphthalate	1.1007	1.1007	.00002	1.8979	1.7321	1.0270
4-Chlorophenyl-phenylether	1.0982	1.0982	-.0000	.79750	.7950	.96963
Fluorene	1.0907	1.0895	.02040	1.4717	1.3320	1.0421
4-Nitroaniline	1.1169	1.1156	.02047	.42360	.3640	1.0256
6-Dinitro-2-methylphenol	.90005	.90001	.00003	.16038	.1450	1.0861
Nitrosodiphenylamine	.90305	.90302	-.0001	.39011	.3310	1.0305

DATA FILE NAME = SK450::01
DATE AND TIME OF ANALYSIS = 5/27/94 10:10
SAMPLE = Sys.#1 Calib. Check
MISCELLANEOUS = 05 27 94 50ug/L 8270 BNA Cmpds SC930281
METHOD = BNAMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER GRP

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Compound Name	Retention Times: RRT FOUND	RRT IN THE IDFILE	RT DIFF-ERENCE	Response Factors: RF FOUND	AVE. RF FROM 5-POINT	RATIO RF FOUND TO RF IN IDFILE
Azobenzene (1,2-D.P.H)	.90305	.90302	-.0001	.72883	.6811	1.0254
4-Bromophenyl-phenylether	.94703	.94602	.01987	.26919	.2894	.98072
Hexachlorobenzene	.96003	.96002	-.0007	.42119	.5034	.94217
Phenanthrene	1.0030	1.0030	-.0009	1.0674	1.0494	.98566
Anthracene	1.0090	1.0090	-.0009	1.0818	1.0195	.95675
Carbazole	1.0390	1.0390	-.0010	1.0697	.9455	.99997
Di-n-butylphthalate	1.1039	1.1039	-.0015	1.7325	1.5224	.94897
Fluoranthene	1.1628	1.1629	-.0032	1.4451	1.4789	.90336
Benzidine	.87868	.87836	.01665	.17495	.1633	.80984
Butylbenzylphthalate	.95882	.95942	-.0082	.65396	.5134	1.0247
3,3'-Dichlorobenzidine	1.0044	1.0037	.02922	.44079	.3223	.96131
Benzo(a)anthracene	.99778	.99778	.00887	1.1721	1.0785	1.0297
bis(2-Ethylhexyl)phthalate	1.0206	1.0207	.00765	1.0002	.7860	1.0105
-n-octylphthalate	.95314	.95362	.00293	1.1153	.9186	1.0957
nzo(b)fluoranthene	.97135	.97124	.02167	1.0467	1.0595	.85050
Benzo(k)fluoranthene	.97135	.97386	-.0605	1.0467	.8219	1.1932
Benzo(a)pyrene	.99543	.99542	.01917	1.0570	.8862	1.0302
Indeno(1,2,3-cd)pyrene	1.0749	1.0746	.02914	1.3094	1.1044	1.0953
Dibenz(a,h)anthracene	1.0769	1.0766	.02905	.99672	.7700	1.0188
Benzo(g,h,i)perylene	1.0938	1.0943	.00710	1.1474	.9707	1.1064
Phenol	.96489	.96489	.00008	1.1677	1.1548	.91430
2-Chlorophenol	.94982	.94982	.00008	1.0720	1.0566	.94423
1,4-Dichlorobenzene	1.0050	1.0050	.00005	1.4539	1.4372	.95094
N-Nitroso-di-n-propylamine	1.1830	1.1830	.00013	.99925	1.0073	.98955
1,2,4-Trichlorobenzene	.99471	.99471	.00007	.46418	.4624	1.0098
4-Chloro-3-methylphenol	1.1761	1.1778	-.0206	.40691	.3582	1.0246
Acenaphthene	1.0062	1.0050	.02025	1.1520	1.1138	.98124
4-Nitrophenol	1.0597	1.0597	-.0002	.23025	.2233	.96590
2,4-Dinitrotoluene	1.0535	1.0522	.02020	.56224	.5273	.99166
Pentachlorophenol	.98999	.98999	-.0008	.25925	.2995	.93220
Pyrene	.87721	.87688	.01674	1.0761	.8979	1.0607
2-Fluorophenol (SURR)	.60661	.60658	.00028	.64444	.6642	.94776
Phenol-d5 (SURR)	.95987	.96238	-.0204	1.0292	1.0192	.96209
Nitrobenzene-d5 (SURR)	.84682	.84681	.00013	.30818	.3262	1.0387
2-Fluorobiphenyl (SURR)	.89688	.89688	-.0001	1.0702	1.0843	1.0261
2,4,6-Tribromophenol (SURR)	.91406	.91404	-.0002	.24276	.3232	.93222
Terphenyl-d14 (SURR)	.90149	.90120	.01572	.77834	.7803	1.0055

Title: Semi-volatile Organics By EPA 8270/625 (SYSTEM #1)
Calibrated: 940518 14:20

Compound	Files: >A4365 RF 20.00	>A4366 RF 50.00	>A4367 RF 80.00	>A4368 RF 120.00	>A4369 RF 160.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CORR1	CORR2	
Pyridine	.81062	.77286	.86006	.65141	.83318	.230	.78562	10.381	.977498	.982908	
n-Nitrosodimethylamine	.52952	.48999	.43839	.40256	.48106	.235	.46830	10.460	.987477	.995294	
2-Fluorophenol (SURR)	.68819	.65100	.66195	.66118	.65859	.603	.66418	2.123	-	-	(Conc=200.0,200.0,
Phenol-d5 (SURR)	1.07170	1.02219	1.00279	1.00796	.99120	.957	1.01917	3.081	-	-	(Conc=200.0,200.0,
Phenol	1.21505	1.16467	1.18328	1.13483	1.07609	.960	1.15478	4.568	.998412	.999770	
Aniline	1.33300	1.29032	1.32912	1.25016	1.21774	.921	1.28407	3.896	.998893	.999740	
bis(2-Chloroethyl)ether	1.33237	1.27020	1.32912	1.24980	1.21774	.921	1.27985	3.915	.998839	.999628	
2-Chlorophenol	1.16484	1.07373	1.05424	1.03193	.95814	.950	1.05658	7.070	.997990	.999429	
1,3-Dichlorobenzene	1.52119	1.38098	1.43051	1.36870	1.31546	.984	1.40337	5.525	.998956	.999667	
1,4-Dichlorobenzene	1.59056	1.44770	1.44231	1.38386	1.32150	1.006	1.43719	6.948	.999032	.999865	
Benzyl alcohol	.52226	.53384	.56798	.55979	.59176	1.084	.55513	4.985	.999084	.999639	
1,2-Dichlorobenzene	1.59707	1.48181	1.44506	1.42006	1.38812	1.065	1.46643	5.502	.999871	.999989	
2-Methylphenol	1.05766	1.03426	1.02974	1.00800	1.00361	1.146	1.02665	2.127	.999938	.999978	
bis(2-Chloroisopropyl)ether	2.73474	2.68871	2.77480	2.66845	2.61408	1.133	2.69615	2.289	.999428	.999856	
4-Methylphenol	1.11901	1.09579	1.08606	1.05364	1.03059	1.199	1.07702	3.250	.999650	.999990	
N-Nitroso-di-n-propylamine	1.01935	1.01518	1.01054	1.00220	.98900	1.184	1.00725	1.194	.999918	.999997	
Hexachloroethane	.86709	.76924	.76364	.72506	.71021	1.162	.76705	7.988	.999639	.999891	
Nitrobenzene-d5 (SURR)	.33605	.32333	.32934	.31783	.32434	.845	.32618	2.106	-	-	(Conc=100.0,100.0,
Nitrobenzene	.39186	.35634	.33371	.35046	.33294	.850	.35306	6.795	.998909	.998936	
Isophorone	.66643	.63753	.64166	.64015	.64221	.908	.64560	1.826	.999973	.999990	
2-Nitrophenol	.20951	.20372	.20674	.20620	.20738	.924	.20671	1.012	.999966	.999983	
4-Dimethylphenol	.25664	.25891	.25239	.24982	.24152	.959	.25186	2.692	.999500	.999946	
Benzoic acid	.17528	.22189	.28929	.30403	.29961	1.018	.25802	22.073	.998220	.998334	
bis(2-Chloroethoxy)methane	.43887	.41767	.41580	.40358	.39146	.976	.41348	4.276	.999537	.999964	
2,4-Dichlorophenol	.36947	.37331	.38544	.37766	.36986	.984	.37515	1.767	.999609	.999913	
1,2,4-Trichlorobenzene	.49121	.47630	.46237	.44318	.43916	.994	.46245	4.753	.999702	.999895	
Naphthalene	1.04396	.95917	.90930	.89155	.84426	1.004	.92965	8.173	.999065	.999808	
4-Chloroaniline	.48760	.40552	.36523	.30121	.24028	1.039	.35997	26.417	.959610	.987562	
Hexachlorobutadiene	.41958	.39395	.38820	.36940	.37384	1.055	.38899	5.101	.999704	.999707	
4-Chloro-3-methylphenol	.36317	.34454	.36170	.36231	.35952	1.172	.35825	2.172	.999809	.999810	
2-Methylnaphthalene	1.15254	1.05499	1.01602	.95237	.96065	1.169	1.02731	7.943	.999529	.999554	
1-Methylnaphthalene	.80441	.74355	.72941	.68914	.67642	1.194	.72859	6.948	.999509	.999888	
Hexachlorocyclopentadiene	.36864	.53507	.52697	.51971	.50695	.864	.49147	14.129	.998295	.999880	
2,4,6-Trichlorophenol	.48155	.46807	.49778	.45619	.44386	.884	.46949	4.495	.997808	.999264	
2,4,5-Trichlorophenol	.53846	.51847	.48317	.47457	.44085	.890	.49110	7.789	.997872	.999536	
2-Chloronaphthalene	1.20437	1.09812	1.08478	.97592	.90745	.905	1.05413	10.928	.995445	.999650	
2-Fluorobiphenyl (SURR)	1.12152	1.09349	1.06699	1.10158	1.03799	.897	1.08432	2.993	-	-1.0000	(Conc=100.0,100.0,

RF - Response Factor (Subscript is amount in ug/ml)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

Rn - Coefficient of Correlation (nth degree)

008776

JM 5/18/94

008776

8776

Title: Semi-volatile Organics By EPA 8270/625 (SYSTEM #1)
Calibrated: 940518 14:20

Compound	Files: >A4365 RF 20.00	>A4366 RF 50.00	>A4367 RF 80.00	>A4368 RF 120.00	>A4369 RF 160.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CORR1	CORR2	
2-Nitroaniline	.39684	.39388	.41233	.37398	.35703	.939	.38681	5.565	.996486	.999354	
Dimethylphthalate	1.50380	1.45795	1.44586	1.41962	1.33872	.981	1.43319	4.254	.998607	.999711	
Acenaphthylene	1.92175	1.79114	1.77621	1.63653	1.49357	.973	1.72384	9.492	.994827	.999466	
2,6-Dinitrotoluene	.33657	.34193	.36016	.32805	.30193	.990	.33373	6.387	.993743	.999134	
3-Nitroaniline	.36200	.29210	.28129	.25032	.21341	1.010	.27983	19.727	.986200	.996347	
Acenaphthene	1.29301	1.15393	1.14209	1.02435	.95581	1.005	1.11384	11.662	.995751	.999594	
2,4-Dinitrophenol	.08385	.18829	.25308	.25277	.26522	1.026	.20864	36.431	.998873	.998912	
4-Nitrophenol	.20159	.23192	.23816	.22818	.21686	1.054	.22334	6.457	.997579	.999901	
Dibenzofuran	1.97721	1.77685	1.73706	1.59567	1.47731	1.033	1.71282	11.069	.996312	.999749	
2,4-Dinitrotoluene	.51840	.53079	.55211	.52926	.50581	1.053	.52727	3.247	.998362	.999773	
Diethylphthalate	1.96520	1.83259	1.68491	1.68135	1.49668	1.101	1.73215	10.192	.995051	.997795	
4-Chlorophenyl-phenylether	.89555	.84486	.81569	.71904	.69990	1.097	.79501	10.493	.996690	.999005	
Fluorene	1.53313	1.35504	1.37016	1.23852	1.16299	1.090	1.33197	10.600	.996462	.999469	
4-Nitroaniline	.38117	.36538	.36516	.37548	.33275	1.116	.36399	5.152	.994568	.996539	
4,6-Dinitro-2-methylphenol	.12875	.14994	.15512	.15717	.13379	.901	.14496	8.893	.988262	.993579	
N-Nitrosodiphenylamine	.43238	.37084	.29559	.30083	.25515	.904	.33096	21.248	.988768	.992443	
Azobenzene (1,2-D.P.H)	.85931	.76483	.63232	.61523	.53400	.904	.68114	19.019	.991179	.996549	
2,4,6-Tribromophenol (SURR)	.30453	.33841	.32009	.33655	.31657	.914	.32323	4.408	-	-	(Conc=200.0,200.0,
4-Bromophenyl-phenylether	.30716	.30732	.28920	.27779	.26574	.947	.28944	6.302	.998679	.999953	
Hexachlorobenzene	.54436	.53610	.49054	.48976	.45623	.961	.50340	7.247	.997992	.999319	
Pentachlorophenol	.29662	.29204	.30092	.31723	.29059	.990	.29948	3.580	.996973	.997653	
Phenanthrene	1.17282	1.07000	1.02953	1.03027	.94418	1.003	1.04936	7.900	.997507	.998817	
Anthracene	1.19753	1.07979	.95861	.97035	.89100	1.009	1.01946	11.808	.997568	.998559	
Carbazole	1.13094	.95619	.83569	.92993	.87453	1.039	.94545	12.041	.996708	.996838	
Di-n-butylphthalate	1.75391	1.66722	1.49768	1.46011	1.23298	1.104	1.52238	13.253	.987478	.994409	
Fluoranthene	1.67976	1.61596	1.43612	1.44844	1.21431	1.163	1.47892	12.278	.987223	.992452	
Benzidine	.14960	.18206	.17173	.15862	.15427	.878	.16326	8.185	.996482	.999456	
Pyrene	1.09095	.95257	.85750	.80105	.78755	.877	.89792	14.026	.999321	.999578	
Terphenyl-d14 (SURR)	.78828	.78442	.76193	.76136	.80541	.902	.78028	2.404	-	-	(Conc=100.0,100.0,
Butylbenzylphthalate	.57240	.53556	.51465	.50138	.44296	.959	.51339	9.230	.993754	.997770	
3,3'-Dichlorobenzidine	.32487	.38898	.33545	.31134	.25076	1.004	.32228	15.409	.968661	.989138	
Benzo(a)anthracene	1.17186	1.14295	1.06213	1.05288	.96249	.998	1.07846	7.654	.996862	.999035	
Chrysene	1.10094	1.08498	.94838	.89446	.80966	1.003	.96768	12.888	.993966	.999394	
bis(2-Ethylhexyl)phthalate	.84909	.88091	.76720	.75874	.67409	1.021	.78600	10.377	.993086	.997846	
Di-n-octylphthalate	1.19042	1.10516	.89021	.79184	.61550	.954	.91863	25.380	.956691	.981395	
Benzo(b)fluoranthene	.96466	1.17672	1.11337	1.08191	.96079	.972	1.05949	8.940	.991626	.998484	
Benzo(k)fluoranthene	1.22032	.80230	.64166	.53174	.91370	.974	.82195	32.431	.911641	.991180	

RF - Response Factor (Subscript is amount in ug/ml)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

RRn - Coefficient of Correlation (nth degree)

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POOR QUALITY
ORIGINAL

008777

8777

Calibration Report

Title: Semi-volatile Organics By EPA 8270/625 (SYSTEM #1)
Calibrated: 940518 14:20

Compound	Files: >A4365 RF 20.00	>A4366 RF 50.00	>A4367 RF 80.00	>A4368 RF 120.00	>A4369 RF 160.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CORR1	CORR2
Benzo(a)pyrene	1.00793	.94780	.86272	.89041	.72227	.996	.88623	12.107	.982511	.986545
Indeno(1,2,3-cd)pyrene	.91140	1.20045	1.17419	1.16288	1.07290	1.075	1.10437	10.691	.995690	.999465
Dibenz(a,h)anthracene	.61738	.89266	.88908	.79398	.65676	1.077	.76997	16.672	.970717	.992842
Benzo(g,h,i)perylene	.83036	1.06664	1.03696	1.02422	.89555	1.094	.97074	10.531	.990177	.997190

008778

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ORIGINAL

RF - Response Factor (Subscript is amount in ug/ml)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CORn - Coefficient of Correlation (nth degree)

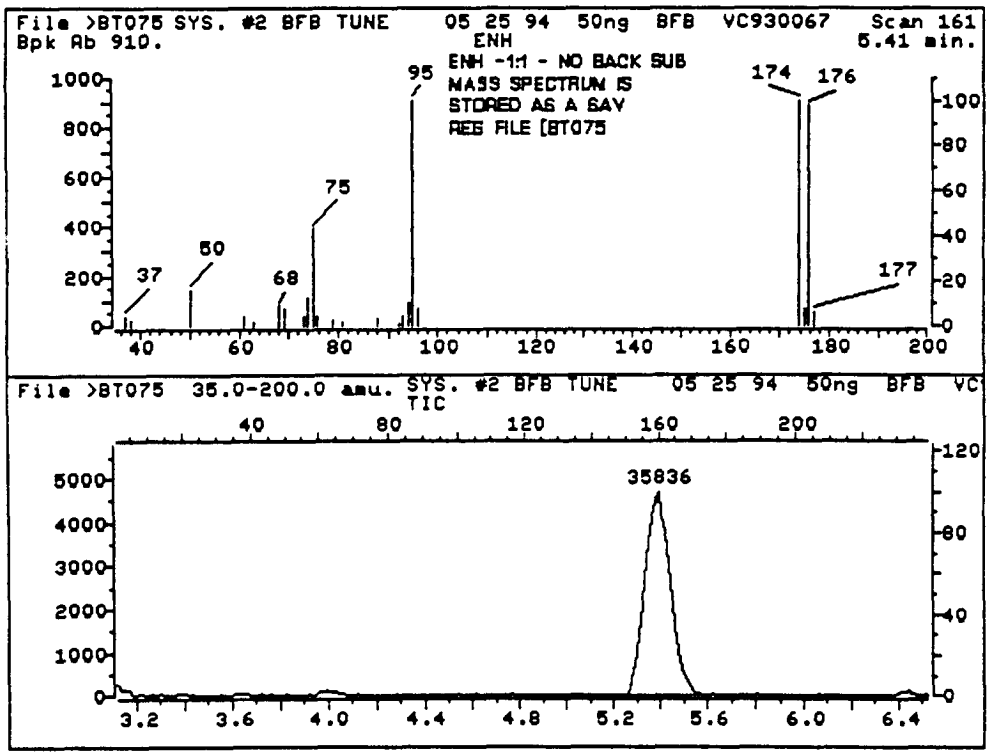
GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
50	15-40% of mass 95	15.87	15.87	Ok
75	30-60% of mass 95	43.09	43.09	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	7.44	7.44	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	99.82	99.82	Ok
175	5-9% of mass 174	7.40	7.42	Ok
176	95-101% of mass 174	97.65	97.83	Ok
177	5-9% of mass 176	6.08	6.23	Ok

008779

Injection Date: 05/25/94
Injection Time: 12:09
Data File: >BT075
Scan: 161



Instrument ID: VOA II Analyzed on: 5/25/94 12:09

MJH 05-25-94

008779

8779

>BT075 SYS. #2 BFB TUNE 05 25 94 50ng BFB VC930067
161 NRM ENH

File: >BT075 Scan #: 161 Retn. time: 5.41

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
37.00	4.287	67.95	8.684	75.95	3.811	92.95	3.811	173.90	99.817
38.00	2.345	68.95	7.622	78.90	2.455	93.95	10.260	174.90	7.402
49.95	15.867	72.95	4.361	80.70	1.063	94.95	100.000	175.90	97.655
61.00	3.884	73.95	12.422	87.95	2.748	95.95	7.439	176.90	6.083
63.00	1.832	74.95	43.093	91.95	.733				

Instrument ID: VOA II Analyzed on: 5/25/94 12:09

008780

[CCC AND SPCC DAILY CALIBRATION CHECK OPERATOR REPORT VOA'S]

DATA FILE NAME = >BC067::D3
DATE AND TIME OF ANALYSIS = 5/25/94 14:04
SAMPLE = SYSTEM #2 CAL. CHEC
MISCELLANEOUS = 05 25 94 50ug/L Daily CCC/ CC940091
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

	Retention Times	Response factors	
CCC COMPOUND	DAILY CAL RF	5-POINT AVE RF	%D
Vinyl Chloride	.3464	.4307	19.56
1,1-Dichloroethene	.9152	.8655	5.74
Chloroform	2.6287	3.1233	15.84
1,2-Dichloropropane	.2090	.2366	11.66
Toluene	.5788	.7155	19.10
Ethylbenzene	.4104	.4683	12.36

SPCC COMPOUND	DAILY RF
Chloromethane	.3307
1,1-Dichloroethane	1.5296
Bromoform	.4734
1,1,2,2-Tetrachloroethane	.5236
Chlorobenzene	.9408

DAILY CALIBRATION FOR VOA'S PASSED ALL CCC AND SPCC CRITERIA

THE RF AND RT VALUES WILL AUTOMATICALLY BE UPDATED IN YOUR IDFILE

MJH 05-25-94

008781

[RRT AND RF DAILY CALIBRATION GC/MS OPERATOR REPORT VOA'S]

DATA FILE NAME = >BC067::D3
DATE AND TIME OF ANALYSIS = 5/25/94 14:04
SAMPLE = SYSTEM #2 CAL. CHEC
MISCELLANEOUS = 05 25 94 50ug/L Daily CCC/ CC940091
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

Compound Name	Retention Times: RRT FOUND	RRT IN THE IDFILE	RT DIFF-ERENCE	Response factors: RF FOUND	AVE. RF FROM 5-POINT	RATIO RF FOUND TO RF IN IDFILE
Dichlorodifluoromethane	.29195	.29117	.01050	.77631	.6521	1.0174
Chloromethane	.32543	.32467	.01083	.33074	.3193	.95265
Vinyl Chloride	.33261	.33185	.01093	.34645	.4307	.90953
Bromomethane	.38528	.38698	-.0083	.79189	.7574	.95274
Chloroethane	.38767	.38698	.01113	.31511	.2877	.94136
Trichlorofluoromethane	.42358	.42057	.03052	1.7942	3.7129	1.0573
Acrolein	.47624	.47573	.01093	.02737	.0323	1.3187
Acetone	.48821	.48770	.01107	.18642	.1879	1.4766
1,1-Dichloroethene	.50975	.50447	.05022	.91518	.8655	.92299
Methylene Chloride	.60070	.59782	.03198	1.0310	.7872	.91503
Carbon Disulfide	.60550	.59782	.07105	1.4849	2.3779	1.0867
[illegible]yl-t-Butyl Ether (MTBE)	.62706	.62417	.03245	1.6322	2.4010	1.1911
A[illegible]ylonitrile	.63185	.63136	.01307	.09889	.0788	1.2635
cis-1,2-Dichloroethene	.65102	.65293	-.0062	1.0315	.9269	.91032
Hexane	.00000	.64834	-5.269	.00000	1.0607	******
1,1-Dichloroethane	.75630	.75585	.01447	1.5296	1.8214	1.1385
trans-1,2-Dichloroethene	.91397	.91382	.01432	1.2151	1.0646	.95644
Chloroform	.95221	.95213	.01430	2.6287	3.1233	1.1169
1,2-Dichloroethane	1.1888	1.1891	.01442	1.6577	2.1113	1.1694
Vinyl Acetate	.59701	.59641	.01442	.15251	.2023	1.2069
2-Butanone (MEK)	.68508	.68462	.01428	.06856	.0635	1.5180
1,1,1-Trichloroethane	.82942	.83102	-.0051	.54136	.8608	1.0692
Carbon Tetrachloride	.88379	.88169	.03392	.50671	.8000	1.0023
Benzene	.92691	.92487	.03388	.53801	.6323	1.0844
Trichloroethene	1.0675	1.0675	.01395	.42011	.4750	1.0734
1,2-Dichloropropane	1.1181	1.1182	.01403	.20901	.2366	1.1117
Bromodichloromethane	1.1781	1.1783	.01418	.52276	.6559	.91143
1,4-Dioxane	1.1931	1.1914	.03367	.00256	.0026	1.3258
Dibromomethane	1.1893	1.1914	-.0053	.42883	.3882	.98263
2-Chloroethyl vinyl ether	1.2718	1.2721	.01462	.13826	.1591	1.2059
cis-1,3-Dichloropropene	1.3206	1.3209	.01487	.35858	.4579	1.0950
trans-1,3-Dichloropropene	1.4575	1.4580	.01515	.41470	.5560	1.1228
1,1,2-Trichloroethane	1.4950	1.4955	.01510	.28669	.3287	1.1736
Dibromochloromethane	1.6243	1.6250	.01502	.59652	.7027	.93145
1,2-Dibromoethane	1.6768	1.6776	.01492	.45910	.4655	1.1052
Bromoform	2.0591	2.0586	.03393	.47340	.5683	1.1028
4[illegible]ethyl-2-Pentanone	.71564	.71618	.01462	.26014	.2677	1.3872
1[illegible]ene	.78203	.78268	.01493	.57882	.7155	1.0634
2-[illegible]exanone	.84629	.84599	.03459	.17290	.1649	1.4844
Tetrachloroethene	.87473	.87554	.01511	.54896	.5830	.99867
Chlorobenzene	1.0053	1.0063	.01480	.94082	1.0675	1.0856

Ethylbenzene	1.0148	1.0159	.01479	.41040	.4683	1.1190
m & p-Xylene	1.0274	1.0275	.03420	.51584	.5878	1.0885
o-Xylene	1.0959	1.0960	.03445	1.0944	1.3778	1.1096
Styrene	1.1043	1.1056	.01495	.83807	.9495	1.0955
,2,2-Tetrachloroethane	1.1917	1.1921	.03390	.52358	.5519	1.2238
·Dichlorobenzene	1.3737	1.3755	.01432	1.0180	1.1059	1.0514
1,4-Dichlorobenzene	1.3916	1.3935	.01422	1.1018	1.1635	1.0607
1,2-Dichlorobenzene	1.4432	1.4442	.03232	.95360	1.0049	1.1124
1,2-Dibromo-3-chloropropane	1.5422	1.5443	.01325	.15305	.1495	1.2200
Naphthalene	1.6580	1.6593	.03263	.96748	.9086	1.0600
.....					0.0000	.....
1,2-Dichloroethane-d4 (SURR)	1.1601	1.1604	.01442	1.5008	1.6926	1.1283
Toluene-d8 (SURR)	.77148	.77106	.03437	1.0254	1.0705	.99845
Bromofluorobenzene (SURR)	1.1970	1.1973	.03388	.82966	1.1903	1.0410

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Calibration Report

Title: SYSTEM #2: VOLATILE ORGANICS BY EPA METHODS 8240 & 624
Calibrated: 940316 00:28

Compound	Files: >B0064 RF 10.00	>B0065 RF 50.00	>B0066 RF 100.00	>B0067 RF 250.00	>B0068 RF 500.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CORR1	CORR2	
Dichlorodifluoromethane	.59469	.68772	.68433	.64611	.64755	.304	.65208	5.768	.999911	.999915	
Chloromethane	.23029	.39471	.30983	.32574	.33596	.336	.31931	18.540	.999420	.999532	
Vinyl Chloride	.35721	.39906	.44298	.47226	.48203	.343	.43071	12.127	.999906	.999940	
Bromomethane	.36520	.84453	.91061	.81842	.84832	.394	.75742	29.291	.999520	.999525	
Chloroethane	.19956	.29597	.31443	.29338	.33503	.397	.28767	18.083	.998088	.999592	
Trichlorofluoromethane	5.00499	3.39048	3.47239	3.58588	3.11097	.431	3.71294	20.018	.997128	.999453	
Acrolein	.04111	.02995	.03091	.03098	.02863	.488	.03232	15.491	.999182	.999863	(Conc=100.0,500.0
Acetone	.26601	.17071	.17884	.16902	.15515	.500	.18795	23.658	.999053	.999908	(Conc=100.0,500.0
1,1-Dichloroethene	.70625	.89529	.95813	.89701	.87067	.519	.86547	10.939	.999671	.999928	
Methylene Chloride	.81161	.79412	.81622	.74833	.76590	.612	.78724	3.731	.999785	.999812	
Carbon Disulfide	3.07029	2.23718	2.34267	2.37403	1.86546	.615	2.37792	18.367	.990697	.998487	(Conc=100.0,500.0,
Methyl-t-Butyl Ether (MTBE)	2.08761	2.54606	2.66012	2.35386	2.35719	.635	2.40097	9.090	.999608	.999650	
Acrylonitrile	.08992	.07453	.07979	.07745	.07253	.641	.07884	8.604	.999352	.999944	(Conc=100.0,500.0,
cis-1,2-Dichloroethene	.83656	.95247	.98947	.92579	.93040	.660	.92694	6.089	.999885	.999889	
Hexane	.97725	1.00081	1.00299	1.25529	1.06737	.657	1.06074	10.727	.995116	.998171	
1,1-Dichloroethane	2.25923	1.63569	1.69907	1.77308	1.73974	.762	1.82136	13.730	.999863	.999877	
trans-1,2-Dichloroethene	.92417	1.06134	1.15845	1.08694	1.09208	.914	1.06459	8.107	.999869	.999878	
Chloroform	4.05787	2.78088	2.87090	2.98866	2.91805	.955	3.12327	16.902	.999836	.999859	
1,2-Dichloroethane-d4 (SURR)	1.71455	1.68510	1.72624	1.69412	1.64292	1.155	1.69259	1.901	-	-	(Conc=50.0,50.0,50
1,2-Dichloroethane	2.64678	1.90025	2.00527	2.02648	1.97791	1.183	2.11134	14.356	.999878	.999920	
Vinyl Acetate	.21536	.19167	.20219	.20435	.19787	.605	.20229	4.334	.999828	.999955	(Conc=100.0,500.0,
2-Butanone (MEK)	.07934	.05851	.06137	.06093	.05750	.692	.06353	14.142	.999547	.999915	(Conc=100.0,500.0,
1,1,1-Trichloroethane	1.11000	.76257	.79289	.82308	.81569	.833	.86085	16.410	.999886	.999887	
Carbon Tetrachloride	1.01368	.70632	.74337	.76324	.77354	.884	.80003	15.269	.999874	.999928	
Benzene	.80173	.57800	.58510	.60883	.58767	.928	.63227	15.093	.999784	.999864	
Trichloroethene	.61831	.41944	.43521	.46218	.43975	1.066	.47498	17.174	.999542	.999733	
1,2-Dichloropropane	.30042	.21372	.21889	.22871	.22105	1.115	.23656	15.262	.999773	.999847	
Bromodichloromethane	.61380	.65122	.67922	.67154	.66379	1.174	.65591	3.920	.999961	.999993	
1,4-Dioxane	.00324	.00247	.00256	.00247	.00231	1.188	.00261	13.927	.999369	.999953	(Conc=500.0,2500.0
Dibromomethane	.34419	.39489	.41652	.38874	.39648	1.187	.38816	6.879	.999845	.999852	
2-Chloroethyl vinyl ether	.18702	.14223	.15277	.16077	.15267	1.265	.15909	10.650	.999513	.999784	
cis-1,3-Dichloropropene	.58599	.40637	.42201	.43995	.43528	1.314	.45792	15.892	.999878	.999878	
trans-1,3-Dichloropropene	.70181	.50200	.51587	.53788	.52243	1.447	.55600	14.843	.999813	.999862	
1,1,2-Trichloroethane	.43540	.29283	.31088	.30800	.29617	1.485	.32865	18.304	.999771	.999908	
Dibromochloromethane	.63534	.69451	.73732	.71523	.73126	1.613	.70273	5.857	.999924	.999950	
1,2-Dibromoethane	.38974	.48656	.50418	.46483	.48214	1.664	.46549	9.581	.999699	.999759	
Bromoform	.68200	.50769	.54849	.56702	.53624	2.041	.56829	11.812	.999481	.999814	

RF - Response Factor (Subscript is amount in ug/L)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CORRn - Coefficient of Correlation (nth degree)

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3-15-94

Calibration Report

Title: SYSTEM #2: VOLATILE ORGANICS BY EPA METHODS 8240 & 624
Calibrated: 940316 00:28

Compound	Files: >B0064 RF 10.00	>B0065 RF 50.00	>B0066 RF 100.00	>B0067 RF 250.00	>B0068 RF 500.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CORR1	CORR2	
4-Methyl-2-Pentanone	.31985	.23395	.24846	.30893	.22750	.719	.26774	16.221	.983175	.994527	(Conc=100.0,500.0,
Toluene-d8 (SURR)	1.07919	1.05613	1.06337	1.08965	1.06420	.773	1.07051	1.270	-	-	(Conc=50.0,50.0,50
Toluene	.97003	.65082	.64928	.67626	.63105	.784	.71549	20.014	.999352	.999756	
2-Hexanone	.20645	.15563	.16004	.15969	.14250	.847	.16486	14.748	.998211	.999785	(Conc=100.0,500.0,
Tetrachloroethene	.77196	.53315	.51942	.56932	.52118	.876	.58301	18.442	.998787	.999473	
Chlorobenzene	1.41357	.93457	.99232	1.04966	.94743	1.000	1.06751	18.607	.998408	.999526	
Ethylbenzene	.63706	.42038	.42658	.44344	.41410	1.016	.46831	20.278	.999348	.999752	
m & p-Xylene	.78073	.52729	.54666	.56301	.52144	1.027	.58783	18.557	.999180	.999758	(Conc=20.0,100.0,
o-Xylene	1.81999	1.21835	1.27253	1.32343	1.25462	1.096	1.37778	18.151	.999544	.999784	
Styrene	1.23746	.84215	.90011	.92935	.83850	1.104	.94951	17.434	.998448	.999639	
1,1,2,2-Tetrachloroethane	.69475	.51071	.54458	.52890	.48070	1.190	.55193	15.092	.998706	.999876	
Bromofluorobenzene (SURR)	.79997	.88539	1.04359	1.38267	1.84005	1.195	1.19033	35.792	-	-	(Conc=50.0,50.0,50
1,3-Dichlorobenzene	1.44779	1.00168	1.02586	1.05689	.99704	1.372	1.10585	17.418	.999525	.999823	
1,4-Dichlorobenzene	1.52216	1.05967	1.10284	1.09645	1.03625	1.390	1.16347	17.392	.999588	.999905	
1,2-Dichlorobenzene	1.32660	.91864	.94472	.95656	.87783	1.441	1.00487	18.149	.999023	.999800	
1,2-Dibromo-3-chloropropane	.11084	.15817	.17157	.15869	.14840	1.539	.14953	15.479	.998952	.999945	
Naphthalene	.57396	1.01403	1.08017	.93662	.93798	1.653	.90855	21.609	.999337	.999450	

RF - Response Factor (Subscript is amount in ug/L)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

^Rn - Coefficient of Correlation (nth degree)

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WESTERN ATLAS

Core Laboratories

CORE LABORATORIES
A N A L Y T I C A L R E P O R T

Job Number: 942184
Prepared For:

JONES & NEUSE, INC.
MICHAEL WHITEHEAD
12655 N. CENTRAL EXPY.-SUITE 323
DALLAS, TX 75243

Date: 07/21/94

008786

Dana L. Harper
Signature

07/21/94
Date:

Name: DANA L. HARPER

Core Laboratories
3645 Beglis Parkway
Sulphur, LA 70663

Title: LABORATORY MANAGER

008786

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942184 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SB-13-05-12 (14'-16')
DATE SAMPLED.....: 05/12/94
TIME SAMPLED.....: 14:45
WORK DESCRIPTION...: DHA-RI

LABORATORY I.D...: 942184-0001
DATE RECEIVED....: 05/16/94
TIME RECEIVED....: 12:00
REMARKS.....:

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Semi-volatile Organic Contaminants		*33		SW-846/8270	05/27/94	LLB
Acenaphthene	ND	330	ug/kg	SW-846/8270		
Acenaphthylene	ND	330	ug/kg	SW-846/8270		
Anthracene	ND	330	ug/kg	SW-846/8270		
Benzo(a)anthracene	ND	330	ug/kg	SW-846/8270		
Benzo(b)fluoranthene	ND	330	ug/kg	SW-846/8270		
Benzo(k)fluoranthene	ND	330	ug/kg	SW-846/8270		
Benzo(ghi)perylene	ND	330	ug/kg	SW-846/8270		
Benzo(a)pyrene	ND	330	ug/kg	SW-846/8270		
Bis(2-chloroethoxy)methane	ND	330	ug/kg	SW-846/8270		
Bis(2-chloroethyl)ether	ND	330	ug/kg	SW-846/8270		
Bis(2-chloroisopropyl)ether	ND	330	ug/kg	SW-846/8270		
Bis(2-ethylhexyl) phthalate	ND	330	ug/kg	SW-846/8270		
4-Bromophenyl phenyl ether	ND	330	ug/kg	SW-846/8270		
Butyl benzyl phthalate	ND	330	ug/kg	SW-846/8270		
Carbazole	ND	330	ug/kg	SW-846/8270		
4-Chloroaniline	ND	330	ug/kg	SW-846/8270		
4-Chloro-3-methylphenol	ND	330	ug/kg	SW-846/8270		
2-Chloronaphthalene	ND	330	ug/kg	SW-846/8270		
2-Chlorophenol	ND	330	ug/kg	SW-846/8270		
4-Chlorophenyl phenyl ether	ND	330	ug/kg	SW-846/8270		
Chrysene	ND	330	ug/kg	SW-846/8270		
2-Methylphenol	ND	330	ug/kg	SW-846/8270		
4-Methylphenol	ND	330	ug/kg	SW-846/8270		
Dibenzo(a,h)anthracene	ND	330	ug/kg	SW-846/8270		
Dibenzofuran	ND	330	ug/kg	SW-846/8270		
Di-n-butyl phthalate	ND	330	ug/kg	SW-846/8270		
1,2-Dichlorobenzene	ND	330	ug/kg	SW-846/8270		
1,3-Dichlorobenzene	ND	330	ug/kg	SW-846/8270		
1,4-Dichlorobenzene	ND	330	ug/kg	SW-846/8270		
3,3'-Dichlorobenzidine	ND	330	ug/kg	SW-846/8270		
2,4-Dichlorophenol	ND	330	ug/kg	SW-846/8270		
Diethyl phthalate	ND	330	ug/kg	SW-846/8270		
2,4-Dimethylphenol	ND	330	ug/kg	SW-846/8270		
Dimethyl phthalate	ND	330	ug/kg	SW-846/8270		
2,4-Dinitrophenol	ND	825	ug/kg	SW-846/8270		
2,4-Dinitrotoluene	ND	330	ug/kg	SW-846/8270		
2,6-Dinitrotoluene	ND	330	ug/kg	SW-846/8270		
Di-n-octyl phthalate	ND	330	ug/kg	SW-846/8270		
Fluoranthene	ND	330	ug/kg	SW-846/8270		
Fluorene	ND	330	ug/kg	SW-846/8270		
Hexachlorobenzene	ND	330	ug/kg	SW-846/8270		
Hexachlorobutadiene	ND	330	ug/kg	SW-846/8270		
Hexachlorocyclopentadiene	ND	330	ug/kg	SW-846/8270		

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942184 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SB-13-05-12 (14'-16')
DATE SAMPLED.....: 05/12/94
TIME SAMPLED.....: 14:45
WORK DESCRIPTION...: DHA-RI

LABORATORY I.D...: 942184-0001
DATE RECEIVED....: 05/16/94
TIME RECEIVED....: 12:00
REMARKS.....:

008788

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Hexachloroethane	ND	330	ug/kg	SW-846/8270		
Indenol(1,2,3-cd)pyrene	ND	330	ug/kg	SW-846/8270		
Isophorone	ND	330	ug/kg	SW-846/8270		
2-Methyl-4,6-dinitrophenol	ND	825	ug/kg	SW-846/8270		
2-Methylnaphthalene	ND	330	ug/kg	SW-846/8270		
Naphthalene	ND	330	ug/kg	SW-846/8270		
2-Nitroaniline	ND	825	ug/kg	SW-846/8270		
3-Nitroaniline	ND	825	ug/kg	SW-846/8270		
4-Nitroaniline	ND	825	ug/kg	SW-846/8270		
Nitrobenzene	ND	330	ug/kg	SW-846/8270		
2-Nitrophenol	ND	330	ug/kg	SW-846/8270		
4-Nitrophenol	ND	825	ug/kg	SW-846/8270		
N-Nitrosodiphenylamine	ND	330	ug/kg	SW-846/8270		
N-Nitrosodi-n-propylamine	ND	330	ug/kg	SW-846/8270		
Pentachlorophenol	ND	825	ug/kg	SW-846/8270		
Phenanthrene	ND	330	ug/kg	SW-846/8270		
Phenol	ND	330	ug/kg	SW-846/8270		
Pyrene	ND	330	ug/kg	SW-846/8270		
1,2,4-Trichlorobenzene	ND	330	ug/kg	SW-846/8270		
2,4,6-Trichlorophenol	ND	330	ug/kg	SW-846/8270		
2,4,5-Trichlorophenol	ND	825	ug/kg	SW-846/8270		
Semivolatile Organics Extraction	COMPLETE			SW-846 3550	05/25/94	CMG
Volatile Organic Contaminants		*1		SW-846/8240	05/26/94	DFM
Acetone	56	10	ug/kg	SW-846/8240		
Benzene	ND	10	ug/kg	SW-846/8240		
Bromodichloromethane	ND	10	ug/kg	SW-846/8240		
Bromoform	ND	10	ug/kg	SW-846/8240		
Bromomethane	ND	10	ug/kg	SW-846/8240		
2-Butanone (MEK)	ND	10	ug/kg	SW-846/8240		
Carbon disulfide	ND	10	ug/kg	SW-846/8240		
Carbon tetrachloride	ND	10	ug/kg	SW-846/8240		
Chlorobenzene	ND	10	ug/kg	SW-846/8240		
Chloroethane	ND	10	ug/kg	SW-846/8240		
Chloroform	ND	10	ug/kg	SW-846/8240		
Chloromethane	ND	10	ug/kg	SW-846/8240		
Dibromochloromethane	ND	10	ug/kg	SW-846/8240		
1,1-Dichloroethane	ND	10	ug/kg	SW-846/8240		
1,2-Dichloroethane	ND	10	ug/kg	SW-846/8240		
1,1-Dichloroethene	ND	10	ug/kg	SW-846/8240		
1,2-Dichloroethene (Total)	ND	10	ug/kg	SW-846/8240		
1,2-Dichloropropane	ND	10	ug/kg	SW-846/8240		
cis-1,3-Dichloropropene	ND	10	ug/kg	SW-846/8240		

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Sulphur, LA 70663
(318) 583-4926

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8788

WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS

07/21/94

JOB NUMBER: 942184 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SB-13-05-12 (14'-16')
DATE SAMPLED.....: 05/12/94
TIME SAMPLED.....: 14:45
WORK DESCRIPTION...: DHA-RI

LABORATORY I.D...: 942184-0001
DATE RECEIVED....: 05/16/94
TIME RECEIVED....: 12:00
REMARKS.....:

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
trans-1,3-Dichloropropene	ND	10	ug/kg	SW-846/8240		
Ethylbenzene	ND	10	ug/kg	SW-846/8240		
2-Hexanone	ND	10	ug/kg	SW-846/8240		
Methylene chloride	ND	10	ug/kg	SW-846/8240		
4-Methyl-2-pentanone	ND	10	ug/kg	SW-846/8240		
Styrene	ND	10	ug/kg	SW-846/8240		
1,1,2,2-Tetrachloroethane	ND	10	ug/kg	SW-846/8240		
Tetrachloroethene	ND	10	ug/kg	SW-846/8240		
Toluene	ND	10	ug/kg	SW-846/8240		
1,1,1-Trichloroethane	ND	10	ug/kg	SW-846/8240		
1,1,2-Trichloroethane	ND	10	ug/kg	SW-846/8240		
Trichloroethene	ND	10	ug/kg	SW-846/8240		
Total Xylenes	ND	10	ug/kg	SW-846/8240		
Vinyl chloride	ND	10	ug/kg	SW-846/8240		

008789

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8789

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942184 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SB-13-06-13 (15'-16')
DATE SAMPLED.....: 05/12/94
TIME SAMPLED.....: 14:55
WORK DESCRIPTION...: DHA-RI

LABORATORY I.D...: 942184-0002
DATE RECEIVED....: 05/16/94
TIME RECEIVED....: 12:00
REMARKS.....:

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Semi-volatile Organic Contaminants		*33		SW-846/8270	05/27/94	LLB
Acenaphthene	ND	330	ug/kg	SW-846/8270		
Acenaphthylene	ND	330	ug/kg	SW-846/8270		
Anthracene	ND	330	ug/kg	SW-846/8270		
Benzo(a)anthracene	ND	330	ug/kg	SW-846/8270		
Benzo(b)fluoranthene	ND	330	ug/kg	SW-846/8270		
Benzo(k)fluoranthene	ND	330	ug/kg	SW-846/8270		
Benzo(ghi)perylene	ND	330	ug/kg	SW-846/8270		
Benzo(a)pyrene	ND	330	ug/kg	SW-846/8270		
Bis(2-chloroethoxy)methane	ND	330	ug/kg	SW-846/8270		
Bis(2-chloroethyl)ether	ND	330	ug/kg	SW-846/8270		
Bis(2-chloroisopropyl)ether	ND	330	ug/kg	SW-846/8270		
Bis(2-ethylhexyl) phthalate	ND	330	ug/kg	SW-846/8270		
4-Bromophenyl phenyl ether	ND	330	ug/kg	SW-846/8270		
Butyl benzyl phthalate	ND	330	ug/kg	SW-846/8270		
Carbazole	ND	330	ug/kg	SW-846/8270		
4-Chloroaniline	ND	330	ug/kg	SW-846/8270		
4-Chloro-3-methylphenol	ND	330	ug/kg	SW-846/8270		
2-Chloronaphthalene	ND	330	ug/kg	SW-846/8270		
2-Chlorophenol	ND	330	ug/kg	SW-846/8270		
4-Chlorophenyl phenyl ether	ND	330	ug/kg	SW-846/8270		
Chrysene	ND	330	ug/kg	SW-846/8270		
2-Methylphenol	ND	330	ug/kg	SW-846/8270		
4-Methylphenol	ND	330	ug/kg	SW-846/8270		
Dibenzo(a,h)anthracene	ND	330	ug/kg	SW-846/8270		
Dibenzofuran	ND	330	ug/kg	SW-846/8270		
Di-n-butyl phthalate	ND	330	ug/kg	SW-846/8270		
1,2-Dichlorobenzene	ND	330	ug/kg	SW-846/8270		
1,3-Dichlorobenzene	ND	330	ug/kg	SW-846/8270		
1,4-Dichlorobenzene	ND	330	ug/kg	SW-846/8270		
3,3'-Dichlorobenzidine	ND	330	ug/kg	SW-846/8270		
2,4-Dichlorophenol	ND	330	ug/kg	SW-846/8270		
Diethyl phthalate	ND	330	ug/kg	SW-846/8270		
2,4-Dimethylphenol	ND	330	ug/kg	SW-846/8270		
Dimethyl phthalate	ND	330	ug/kg	SW-846/8270		
2,4-Dinitrophenol	ND	825	ug/kg	SW-846/8270		
2,4-Dinitrotoluene	ND	330	ug/kg	SW-846/8270		
2,6-Dinitrotoluene	ND	330	ug/kg	SW-846/8270		
Di-n-octyl phthalate	ND	330	ug/kg	SW-846/8270		
Fluoranthene	ND	330	ug/kg	SW-846/8270		
Fluorene	ND	330	ug/kg	SW-846/8270		
Hexachlorobenzene	ND	330	ug/kg	SW-846/8270		
Hexachlorobutadiene	ND	330	ug/kg	SW-846/8270		
Hexachlorocyclopentadiene	ND	330	ug/kg	SW-846/8270		

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008790

8790

WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942184 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SB-13-06-13 (15'-16')
DATE SAMPLED.....: 05/12/94
TIME SAMPLED.....: 14:55
WORK DESCRIPTION...: DHA-RI

LABORATORY I.D...: 942184-0002
DATE RECEIVED....: 05/16/94
TIME RECEIVED....: 12:00
REMARKS.....:

008791

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Hexachloroethane	ND	330	ug/kg	SW-846/8270		
Indenol(1,2,3-cd)pyrene	ND	330	ug/kg	SW-846/8270		
Isophorone	ND	330	ug/kg	SW-846/8270		
2-Methyl-4,6-dinitrophenol	ND	825	ug/kg	SW-846/8270		
2-Methylnaphthalene	ND	330	ug/kg	SW-846/8270		
Naphthalene	ND	330	ug/kg	SW-846/8270		
2-Nitroaniline	ND	825	ug/kg	SW-846/8270		
3-Nitroaniline	ND	825	ug/kg	SW-846/8270		
4-Nitroaniline	ND	825	ug/kg	SW-846/8270		
Nitrobenzene	ND	330	ug/kg	SW-846/8270		
2-Nitrophenol	ND	330	ug/kg	SW-846/8270		
4-Nitrophenol	ND	825	ug/kg	SW-846/8270		
N-Nitrosodiphenylamine	ND	330	ug/kg	SW-846/8270		
N-Nitrosodi-n-propylamine	ND	330	ug/kg	SW-846/8270		
Pentachlorophenol	ND	825	ug/kg	SW-846/8270		
Phenanthrene	ND	330	ug/kg	SW-846/8270		
Phenol	ND	330	ug/kg	SW-846/8270		
Pyrene	ND	330	ug/kg	SW-846/8270		
1,2,4-Trichlorobenzene	ND	330	ug/kg	SW-846/8270		
2,4,6-Trichlorophenol	ND	330	ug/kg	SW-846/8270		
2,4,5-Trichlorophenol	ND	825	ug/kg	SW-846/8270		
Semivolatile Organics Extraction	COMPLETE			SW-846 3550	05/25/94	CMG
Volatile Organic Contaminants		*1		SW-846/8240	05/26/94	DFM
Acetone	ND	10	ug/kg	SW-846/8240		
Benzene	ND	10	ug/kg	SW-846/8240		
Bromodichloromethane	ND	10	ug/kg	SW-846/8240		
Bromoform	ND	10	ug/kg	SW-846/8240		
Bromomethane	ND	10	ug/kg	SW-846/8240		
2-Butanone (MEK)	ND	10	ug/kg	SW-846/8240		
Carbon disulfide	ND	10	ug/kg	SW-846/8240		
Carbon tetrachloride	ND	10	ug/kg	SW-846/8240		
Chlorobenzene	ND	10	ug/kg	SW-846/8240		
Chloroethane	ND	10	ug/kg	SW-846/8240		
Chloroform	ND	10	ug/kg	SW-846/8240		
Chloromethane	ND	10	ug/kg	SW-846/8240		
Dibromochloromethane	ND	10	ug/kg	SW-846/8240		
1,1-Dichloroethane	ND	10	ug/kg	SW-846/8240		
1,2-Dichloroethane	ND	10	ug/kg	SW-846/8240		
1,1-Dichloroethene	ND	10	ug/kg	SW-846/8240		
1,2-Dichloroethene (Total)	ND	10	ug/kg	SW-846/8240		
1,2-Dichloropropane	ND	10	ug/kg	SW-846/8240		
cis-1,3-Dichloropropene	ND	10	ug/kg	SW-846/8240		

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8791

WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS

07/21/94

JOB NUMBER: 942184 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SB-13-06-13 (15'-16')
DATE SAMPLED.....: 05/12/94
TIME SAMPLED.....: 14:55
WORK DESCRIPTION...: DHA-RI

LABORATORY I.D...: 942184-0002
DATE RECEIVED....: 05/16/94
TIME RECEIVED....: 12:00
REMARKS.....:

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
trans-1,3-Dichloropropene	ND	10	ug/kg	SW-846/8240		
Ethylbenzene	ND	10	ug/kg	SW-846/8240		
2-Hexanone	ND	10	ug/kg	SW-846/8240		
Methylene chloride	ND	10	ug/kg	SW-846/8240		
4-Methyl-2-pentanone	ND	10	ug/kg	SW-846/8240		
Styrene	ND	10	ug/kg	SW-846/8240		
1,1,2,2-Tetrachloroethane	ND	10	ug/kg	SW-846/8240		
Tetrachloroethene	ND	10	ug/kg	SW-846/8240		
Toluene	ND	10	ug/kg	SW-846/8240		
1,1,1-Trichloroethane	ND	10	ug/kg	SW-846/8240		
1,1,2-Trichloroethane	ND	10	ug/kg	SW-846/8240		
Trichloroethene	ND	10	ug/kg	SW-846/8240		
Total Xylenes	ND	10	ug/kg	SW-846/8240		
Vinyl chloride	ND	10	ug/kg	SW-846/8240		

008792

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WESTERN ATLAS

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LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942184 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SB-14-04-17 (17'-19')
DATE SAMPLED.....: 05/12/94
TIME SAMPLED.....: 16:30
WORK DESCRIPTION...: DHA-RI

LABORATORY I.D...: 942184-0003
DATE RECEIVED....: 05/16/94
TIME RECEIVED....: 12:00
REMARKS.....:

008793

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Semi-volatile Organic Contaminants		*33		SW-846/8270	05/31/94	LLB
Acenaphthene	ND	330	ug/kg	SW-846/8270		
Acenaphthylene	ND	330	ug/kg	SW-846/8270		
Anthracene	ND	330	ug/kg	SW-846/8270		
Benzo(a)anthracene	ND	330	ug/kg	SW-846/8270		
Benzo(b)fluoranthene	ND	330	ug/kg	SW-846/8270		
Benzo(k)fluoranthene	ND	330	ug/kg	SW-846/8270		
Benzo(ghi)perylene	ND	330	ug/kg	SW-846/8270		
Benzo(a)pyrene	ND	330	ug/kg	SW-846/8270		
Bis(2-chloroethoxy)methane	ND	330	ug/kg	SW-846/8270		
Bis(2-chloroethyl)ether	ND	330	ug/kg	SW-846/8270		
Bis(2-chloroisopropyl)ether	ND	330	ug/kg	SW-846/8270		
Bis(2-ethylhexyl) phthalate	ND	330	ug/kg	SW-846/8270		
4-Bromophenyl phenyl ether	ND	330	ug/kg	SW-846/8270		
Butyl benzyl phthalate	ND	330	ug/kg	SW-846/8270		
Carbazole	ND	330	ug/kg	SW-846/8270		
4-Chloroaniline	ND	330	ug/kg	SW-846/8270		
4-Chloro-3-methylphenol	ND	330	ug/kg	SW-846/8270		
2-Chloronaphthalene	ND	330	ug/kg	SW-846/8270		
2-Chlorophenol	ND	330	ug/kg	SW-846/8270		
4-Chlorophenyl phenyl ether	ND	330	ug/kg	SW-846/8270		
Chrysene	ND	330	ug/kg	SW-846/8270		
2-Methylphenol	ND	330	ug/kg	SW-846/8270		
4-Methylphenol	ND	330	ug/kg	SW-846/8270		
Dibenzo(a,h)anthracene	ND	330	ug/kg	SW-846/8270		
Dibenzofuran	ND	330	ug/kg	SW-846/8270		
Di-n-butyl phthalate	ND	330	ug/kg	SW-846/8270		
1,2-Dichlorobenzene	ND	330	ug/kg	SW-846/8270		
1,3-Dichlorobenzene	ND	330	ug/kg	SW-846/8270		
1,4-Dichlorobenzene	ND	330	ug/kg	SW-846/8270		
3,3'-Dichlorobenzidine	ND	330	ug/kg	SW-846/8270		
2,4-Dichlorophenol	ND	330	ug/kg	SW-846/8270		
Diethyl phthalate	ND	330	ug/kg	SW-846/8270		
2,4-Dimethylphenol	ND	330	ug/kg	SW-846/8270		
Dimethyl phthalate	ND	330	ug/kg	SW-846/8270		
2,4-Dinitrophenol	ND	825	ug/kg	SW-846/8270		
2,4-Dinitrotoluene	ND	330	ug/kg	SW-846/8270		
2,6-Dinitrotoluene	ND	330	ug/kg	SW-846/8270		
Di-n-octyl phthalate	ND	330	ug/kg	SW-846/8270		
Fluoranthene	ND	330	ug/kg	SW-846/8270		
Fluorene	ND	330	ug/kg	SW-846/8270		
Hexachlorobenzene	ND	330	ug/kg	SW-846/8270		
Hexachlorobutadiene	ND	330	ug/kg	SW-846/8270		
Hexachlorocyclopentadiene	ND	330	ug/kg	SW-846/8270		

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8793

WESTERN ATLAS

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LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942184 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SB-14-04-17 (17'-19')
DATE SAMPLED.....: 05/12/94
TIME SAMPLED.....: 16:30
WORK DESCRIPTION...: DHA-RI

LABORATORY I.D...: 942184-0003
DATE RECEIVED....: 05/16/94
TIME RECEIVED....: 12:00
REMARKS.....:

008794

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Hexachloroethane	ND	330	ug/kg	SW-846/8270		
Indenol(1,2,3-cd)pyrene	ND	330	ug/kg	SW-846/8270		
Isophorone	ND	330	ug/kg	SW-846/8270		
2-Methyl-4,6-dinitrophenol	ND	825	ug/kg	SW-846/8270		
2-Methylnaphthalene	ND	330	ug/kg	SW-846/8270		
Naphthalene	ND	330	ug/kg	SW-846/8270		
2-Nitroaniline	ND	825	ug/kg	SW-846/8270		
3-Nitroaniline	ND	825	ug/kg	SW-846/8270		
4-Nitroaniline	ND	825	ug/kg	SW-846/8270		
Nitrobenzene	ND	330	ug/kg	SW-846/8270		
2-Nitrophenol	ND	330	ug/kg	SW-846/8270		
4-Nitrophenol	ND	825	ug/kg	SW-846/8270		
N-Nitrosodiphenylamine	ND	330	ug/kg	SW-846/8270		
N-Nitrosodi-n-propylamine	ND	330	ug/kg	SW-846/8270		
Pentachlorophenol	ND	825	ug/kg	SW-846/8270		
Phenanthrene	ND	330	ug/kg	SW-846/8270		
Phenol	ND	330	ug/kg	SW-846/8270		
Pyrene	ND	330	ug/kg	SW-846/8270		
1,2,4-Trichlorobenzene	ND	330	ug/kg	SW-846/8270		
2,4,6-Trichlorophenol	ND	330	ug/kg	SW-846/8270		
2,4,5-Trichlorophenol	ND	825	ug/kg	SW-846/8270		
Semivolatile Organics Extraction	COMPLETE			SW-846 3550	05/25/94	CMG
Volatile Organic Contaminants		*1		SW-846/8240	05/26/94	DFM
Acetone	29	10	ug/kg	SW-846/8240		
Benzene	ND	10	ug/kg	SW-846/8240		
Bromodichloromethane	ND	10	ug/kg	SW-846/8240		
Bromoform	ND	10	ug/kg	SW-846/8240		
Bromomethane	ND	10	ug/kg	SW-846/8240		
2-Butanone (MEK)	ND	10	ug/kg	SW-846/8240		
Carbon disulfide	ND	10	ug/kg	SW-846/8240		
Carbon tetrachloride	ND	10	ug/kg	SW-846/8240		
Chlorobenzene	ND	10	ug/kg	SW-846/8240		
Chloroethane	ND	10	ug/kg	SW-846/8240		
Chloroform	ND	10	ug/kg	SW-846/8240		
Chloromethane	ND	10	ug/kg	SW-846/8240		
Dibromochloromethane	ND	10	ug/kg	SW-846/8240		
1,1-Dichloroethane	ND	10	ug/kg	SW-846/8240		
1,2-Dichloroethane	ND	10	ug/kg	SW-846/8240		
1,1-Dichloroethene	ND	10	ug/kg	SW-846/8240		
1,2-Dichloroethene (Total)	ND	10	ug/kg	SW-846/8240		
1,2-Dichloropropane	ND	10	ug/kg	SW-846/8240		
cis-1,3-Dichloropropene	ND	10	ug/kg	SW-846/8240		

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8794

WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS

07/21/94

JOB NUMBER: 942184 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SB-14-04-17 (17'-19')
DATE SAMPLED.....: 05/12/94
TIME SAMPLED.....: 16:30
WORK DESCRIPTION...: DHA-RI

LABORATORY I.D...: 942184-0003
DATE RECEIVED....: 05/16/94
TIME RECEIVED....: 12:00
REMARKS.....:

008795

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
trans-1,3-Dichloropropene	ND	10	ug/kg	SW-846/8240		
Ethylbenzene	ND	10	ug/kg	SW-846/8240		
2-Hexanone	ND	10	ug/kg	SW-846/8240		
Methylene chloride	ND	10	ug/kg	SW-846/8240		
4-Methyl-2-pentanone	ND	10	ug/kg	SW-846/8240		
Styrene	ND	10	ug/kg	SW-846/8240		
1,1,2,2-Tetrachloroethane	ND	10	ug/kg	SW-846/8240		
Tetrachloroethene	ND	10	ug/kg	SW-846/8240		
Toluene	ND	10	ug/kg	SW-846/8240		
1,1,1-Trichloroethane	ND	10	ug/kg	SW-846/8240		
1,1,2-Trichloroethane	ND	10	ug/kg	SW-846/8240		
Trichloroethene	ND	10	ug/kg	SW-846/8240		
Total Xylenes	ND	10	ug/kg	SW-846/8240		
Vinyl chloride	ND	10	ug/kg	SW-846/8240		

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8795

WESTERN ATLAS

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LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942184 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-TB-01-20
DATE SAMPLED.....: 05/13/94
TIME SAMPLED.....: 08:00
WORK DESCRIPTION...: DHA-RI

LABORATORY I.D...: 942184-0004
DATE RECEIVED....: 05/16/94
TIME RECEIVED....: 12:00
REMARKS.....:

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Volatile Organic Contaminants		*1		SW-846/8240	05/25/94	MJH
Acetone	15	10	ug/L	SW-846/8240		
Benzene	ND	10	ug/L	SW-846/8240		
Bromodichloromethane	ND	10	ug/L	SW-846/8240		
Bromoform	ND	10	ug/L	SW-846/8240		
Bromomethane	ND	10	ug/L	SW-846/8240		
2-Butanone (MEK)	ND	10	ug/L	SW-846/8240		
Carbon disulfide	ND	10	ug/L	SW-846/8240		
Carbon tetrachloride	ND	10	ug/L	SW-846/8240		
Chlorobenzene	ND	10	ug/L	SW-846/8240		
Chloroethane	ND	10	ug/L	SW-846/8240		
Chloroform	ND	10	ug/L	SW-846/8240		
Chloromethane	ND	10	ug/L	SW-846/8240		
Dibromochloromethane	ND	10	ug/L	SW-846/8240		
1,1-Dichloroethane	ND	10	ug/L	SW-846/8240		
1,2-Dichloroethane	ND	10	ug/L	SW-846/8240		
1,1-Dichloroethene	ND	10	ug/L	SW-846/8240		
1,2-Dichloroethene (Total)	ND	10	ug/L	SW-846/8240		
1,2-Dichloropropane	ND	10	ug/L	SW-846/8240		
cis-1,3-Dichloropropene	ND	10	ug/L	SW-846/8240		
trans-1,3-Dichloropropene	ND	10	ug/L	SW-846/8240		
Ethylbenzene	ND	10	ug/L	SW-846/8240		
2-Hexanone	ND	10	ug/L	SW-846/8240		
Methylene chloride	ND	10	ug/L	SW-846/8240		
4-Methyl-2-pentanone	ND	10	ug/L	SW-846/8240		
Styrene	ND	10	ug/L	SW-846/8240		
1,1,2,2-Tetrachloroethane	ND	10	ug/L	SW-846/8240		
Tetrachloroethene	ND	10	ug/L	SW-846/8240		
Toluene	ND	10	ug/L	SW-846/8240		
1,1,1-Trichloroethane	ND	10	ug/L	SW-846/8240		
1,1,2-Trichloroethane	ND	10	ug/L	SW-846/8240		
Trichloroethene	ND	10	ug/L	SW-846/8240		
Total Xylenes	ND	10	ug/L	SW-846/8240		
Vinyl chloride	ND	10	ug/L	SW-846/8240		

008796

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8796

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942184 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SB-15-04-24 (10'-12')
DATE SAMPLED.....: 05/13/94
TIME SAMPLED.....: 09:30
WORK DESCRIPTION...: DHA-RI

LABORATORY I.D...: 942184-0005
DATE RECEIVED....: 05/16/94
TIME RECEIVED....: 12:00
REMARKS.....:

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Semi-volatile Organic Contaminants		*33		SW-846/8270	05/31/94	LLB
Acenaphthene	ND	330	ug/kg	SW-846/8270		
Acenaphthylene	ND	330	ug/kg	SW-846/8270		
Anthracene	ND	330	ug/kg	SW-846/8270		
Benzo(a)anthracene	ND	330	ug/kg	SW-846/8270		
Benzo(b)fluoranthene	ND	330	ug/kg	SW-846/8270		
Benzo(k)fluoranthene	ND	330	ug/kg	SW-846/8270		
Benzo(ghi)perylene	ND	330	ug/kg	SW-846/8270		
Benzo(a)pyrene	ND	330	ug/kg	SW-846/8270		
Bis(2-chloroethoxy)methane	ND	330	ug/kg	SW-846/8270		
Bis(2-chloroethyl)ether	ND	330	ug/kg	SW-846/8270		
Bis(2-chloroisopropyl)ether	ND	330	ug/kg	SW-846/8270		
Bis(2-ethylhexyl) phthalate	ND	330	ug/kg	SW-846/8270		
4-Bromophenyl phenyl ether	ND	330	ug/kg	SW-846/8270		
Butyl benzyl phthalate	ND	330	ug/kg	SW-846/8270		
Carbazole	ND	330	ug/kg	SW-846/8270		
4-Chloroaniline	ND	330	ug/kg	SW-846/8270		
4-Chloro-3-methylphenol	ND	330	ug/kg	SW-846/8270		
2-Chloronaphthalene	ND	330	ug/kg	SW-846/8270		
2-Chlorophenol	ND	330	ug/kg	SW-846/8270		
4-Chlorophenyl phenyl ether	ND	330	ug/kg	SW-846/8270		
Chrysene	ND	330	ug/kg	SW-846/8270		
2-Methylphenol	ND	330	ug/kg	SW-846/8270		
4-Methylphenol	ND	330	ug/kg	SW-846/8270		
Dibenzo(a,h)anthracene	ND	330	ug/kg	SW-846/8270		
Dibenzofuran	ND	330	ug/kg	SW-846/8270		
Di-n-butyl phthalate	ND	330	ug/kg	SW-846/8270		
1,2-Dichlorobenzene	ND	330	ug/kg	SW-846/8270		
1,3-Dichlorobenzene	ND	330	ug/kg	SW-846/8270		
1,4-Dichlorobenzene	ND	330	ug/kg	SW-846/8270		
3,3'-Dichlorobenzidine	ND	330	ug/kg	SW-846/8270		
2,4-Dichlorophenol	ND	330	ug/kg	SW-846/8270		
Diethyl phthalate	ND	330	ug/kg	SW-846/8270		
2,4-Dimethylphenol	ND	330	ug/kg	SW-846/8270		
Dimethyl phthalate	ND	330	ug/kg	SW-846/8270		
2,4-Dinitrophenol	ND	825	ug/kg	SW-846/8270		
2,4-Dinitrotoluene	ND	330	ug/kg	SW-846/8270		
2,6-Dinitrotoluene	ND	330	ug/kg	SW-846/8270		
Di-n-octyl phthalate	ND	330	ug/kg	SW-846/8270		
Fluoranthene	ND	330	ug/kg	SW-846/8270		
Fluorene	ND	330	ug/kg	SW-846/8270		
Hexachlorobenzene	ND	330	ug/kg	SW-846/8270		
Hexachlorobutadiene	ND	330	ug/kg	SW-846/8270		
Hexachlorocyclopentadiene	ND	330	ug/kg	SW-846/8270		

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8797

WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942184 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SB-15-04-24 (10'-12')
DATE SAMPLED.....: 05/13/94
TIME SAMPLED.....: 09:30
WORK DESCRIPTION...: DHA-RI

LABORATORY I.D...: 942184-0005
DATE RECEIVED....: 05/16/94
TIME RECEIVED....: 12:00
REMARKS.....:

008798

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Hexachloroethane	ND	330	ug/kg	SW-846/8270		
Indenol(1,2,3-cd)pyrene	ND	330	ug/kg	SW-846/8270		
Isophorone	ND	330	ug/kg	SW-846/8270		
2-Methyl-4,6-dinitrophenol	ND	825	ug/kg	SW-846/8270		
2-Methylnaphthalene	ND	330	ug/kg	SW-846/8270		
Naphthalene	ND	330	ug/kg	SW-846/8270		
2-Nitroaniline	ND	825	ug/kg	SW-846/8270		
3-Nitroaniline	ND	825	ug/kg	SW-846/8270		
4-Nitroaniline	ND	825	ug/kg	SW-846/8270		
Nitrobenzene	ND	330	ug/kg	SW-846/8270		
2-Nitrophenol	ND	330	ug/kg	SW-846/8270		
4-Nitrophenol	ND	825	ug/kg	SW-846/8270		
N-Nitrosodiphenylamine	ND	330	ug/kg	SW-846/8270		
N-Nitrosodi-n-propylamine	ND	330	ug/kg	SW-846/8270		
Pentachlorophenol	ND	825	ug/kg	SW-846/8270		
Phenanthrene	ND	330	ug/kg	SW-846/8270		
Phenol	ND	330	ug/kg	SW-846/8270		
Pyrene	ND	330	ug/kg	SW-846/8270		
1,2,4-Trichlorobenzene	ND	330	ug/kg	SW-846/8270		
2,4,6-Trichlorophenol	ND	330	ug/kg	SW-846/8270		
2,4,5-Trichlorophenol	ND	825	ug/kg	SW-846/8270		
Semivolatile Organics Extraction	COMPLETE			SW-846 3550	05/25/94	CMG
Volatile Organic Contaminants		*1		SW-846/8240	05/26/94	DFM
Acetone	210	10	ug/kg	SW-846/8240		
Benzene	ND	10	ug/kg	SW-846/8240		
Bromodichloromethane	ND	10	ug/kg	SW-846/8240		
Bromoform	ND	10	ug/kg	SW-846/8240		
Bromomethane	ND	10	ug/kg	SW-846/8240		
2-Butanone (MEK)	ND	10	ug/kg	SW-846/8240		
Carbon disulfide	ND	10	ug/kg	SW-846/8240		
Carbon tetrachloride	ND	10	ug/kg	SW-846/8240		
Chlorobenzene	ND	10	ug/kg	SW-846/8240		
Chloroethane	ND	10	ug/kg	SW-846/8240		
Chloroform	ND	10	ug/kg	SW-846/8240		
Chloromethane	ND	10	ug/kg	SW-846/8240		
Dibromochloromethane	ND	10	ug/kg	SW-846/8240		
1,1-Dichloroethane	ND	10	ug/kg	SW-846/8240		
1,2-Dichloroethane	ND	10	ug/kg	SW-846/8240		
1,1-Dichloroethene	ND	10	ug/kg	SW-846/8240		
1,2-Dichloroethene (Total)	ND	10	ug/kg	SW-846/8240		
1,2-Dichloropropane	ND	10	ug/kg	SW-846/8240		
cis-1,3-Dichloropropene	ND	10	ug/kg	SW-846/8240		

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8798

WESTERN ATLAS

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LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942184 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SB-15-04-24 (10'-12')
DATE SAMPLED.....: 05/13/94
TIME SAMPLED.....: 09:30
WORK DESCRIPTION...: DHA-RI

LABORATORY I.D...: 942184-0005
DATE RECEIVED....: 05/16/94
TIME RECEIVED....: 12:00
REMARKS.....:

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
trans-1,3-Dichloropropene	ND	10	ug/kg	SW-846/8240		
Ethylbenzene	ND	10	ug/kg	SW-846/8240		
2-Hexanone	ND	10	ug/kg	SW-846/8240		
Methylene chloride	33	10	ug/kg	SW-846/8240		
4-Methyl-2-pentanone	ND	10	ug/kg	SW-846/8240		
Styrene	ND	10	ug/kg	SW-846/8240		
1,1,2,2-Tetrachloroethane	ND	10	ug/kg	SW-846/8240		
Tetrachloroethene	ND	10	ug/kg	SW-846/8240		
Toluene	ND	10	ug/kg	SW-846/8240		
1,1,1-Trichloroethane	ND	10	ug/kg	SW-846/8240		
1,1,2-Trichloroethane	ND	10	ug/kg	SW-846/8240		
Trichloroethene	ND	10	ug/kg	SW-846/8240		
Total Xylenes	ND	10	ug/kg	SW-846/8240		
Vinyl chloride	ND	10	ug/kg	SW-846/8240		

008799

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WESTERN ATLAS

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LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942184 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SB-16-02-29 (8'-10')
DATE SAMPLED.....: 05/13/94
TIME SAMPLED.....: 11:00
WORK DESCRIPTION...: DHA-RI

LABORATORY I.D...: 942184-0006
DATE RECEIVED....: 05/16/94
TIME RECEIVED....: 12:00
REMARKS.....:

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Semi-volatile Organic Contaminants		*33		SW-846/8270	05/31/94	LLB
Acenaphthene	ND	330	ug/kg	SW-846/8270		
Acenaphthylene	ND	330	ug/kg	SW-846/8270		
Anthracene	ND	330	ug/kg	SW-846/8270		
Benzo(a)anthracene	ND	330	ug/kg	SW-846/8270		
Benzo(b)fluoranthene	ND	330	ug/kg	SW-846/8270		
Benzo(k)fluoranthene	ND	330	ug/kg	SW-846/8270		
Benzo(ghi)perylene	ND	330	ug/kg	SW-846/8270		
Benzo(a)pyrene	ND	330	ug/kg	SW-846/8270		
Bis(2-chloroethoxy)methane	ND	330	ug/kg	SW-846/8270		
Bis(2-chloroethyl)ether	ND	330	ug/kg	SW-846/8270		
Bis(2-chloroisopropyl)ether	ND	330	ug/kg	SW-846/8270		
Bis(2-ethylhexyl) phthalate	ND	330	ug/kg	SW-846/8270		
4-Bromophenyl phenyl ether	ND	330	ug/kg	SW-846/8270		
Butyl benzyl phthalate	ND	330	ug/kg	SW-846/8270		
Carbazole	ND	330	ug/kg	SW-846/8270		
4-Chloroaniline	ND	330	ug/kg	SW-846/8270		
4-Chloro-3-methylphenol	ND	330	ug/kg	SW-846/8270		
2-Chloronaphthalene	ND	330	ug/kg	SW-846/8270		
2-Chlorophenol	ND	330	ug/kg	SW-846/8270		
4-Chlorophenyl phenyl ether	ND	330	ug/kg	SW-846/8270		
Chrysene	ND	330	ug/kg	SW-846/8270		
2-Methylphenol	ND	330	ug/kg	SW-846/8270		
4-Methylphenol	ND	330	ug/kg	SW-846/8270		
Dibenzo(a,h)anthracene	ND	330	ug/kg	SW-846/8270		
Dibenzofuran	ND	330	ug/kg	SW-846/8270		
Di-n-butyl phthalate	ND	330	ug/kg	SW-846/8270		
1,2-Dichlorobenzene	ND	330	ug/kg	SW-846/8270		
1,3-Dichlorobenzene	ND	330	ug/kg	SW-846/8270		
1,4-Dichlorobenzene	ND	330	ug/kg	SW-846/8270		
3,3'-Dichlorobenzidine	ND	330	ug/kg	SW-846/8270		
2,4-Dichlorophenol	ND	330	ug/kg	SW-846/8270		
Diethyl phthalate	ND	330	ug/kg	SW-846/8270		
2,4-Dimethylphenol	ND	330	ug/kg	SW-846/8270		
Dimethyl phthalate	ND	330	ug/kg	SW-846/8270		
2,4-Dinitrophenol	ND	825	ug/kg	SW-846/8270		
2,4-Dinitrotoluene	ND	330	ug/kg	SW-846/8270		
2,6-Dinitrotoluene	ND	330	ug/kg	SW-846/8270		
Di-n-octyl phthalate	ND	330	ug/kg	SW-846/8270		
Fluoranthene	ND	330	ug/kg	SW-846/8270		
Fluorene	ND	330	ug/kg	SW-846/8270		
Hexachlorobenzene	ND	330	ug/kg	SW-846/8270		
Hexachlorobutadiene	ND	330	ug/kg	SW-846/8270		
Hexachlorocyclopentadiene	ND	330	ug/kg	SW-846/8270		

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WESTERN ATLAS

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LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942184 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SB-16-02-29 (8'-10')
DATE SAMPLED.....: 05/13/94
TIME SAMPLED.....: 11:00
WORK DESCRIPTION...: DHA-RI

LABORATORY I.D...: 942184-0006
DATE RECEIVED....: 05/16/94
TIME RECEIVED....: 12:00
REMARKS.....:

008801

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Hexachloroethane	ND	330	ug/kg	SW-846/8270		
Indenol(1,2,3-cd)pyrene	ND	330	ug/kg	SW-846/8270		
Isophorone	ND	330	ug/kg	SW-846/8270		
2-Methyl-4,6-dinitrophenol	ND	825	ug/kg	SW-846/8270		
2-Methylnaphthalene	ND	330	ug/kg	SW-846/8270		
Naphthalene	ND	330	ug/kg	SW-846/8270		
2-Nitroaniline	ND	825	ug/kg	SW-846/8270		
3-Nitroaniline	ND	825	ug/kg	SW-846/8270		
4-Nitroaniline	ND	825	ug/kg	SW-846/8270		
Nitrobenzene	ND	330	ug/kg	SW-846/8270		
2-Nitrophenol	ND	330	ug/kg	SW-846/8270		
4-Nitrophenol	ND	825	ug/kg	SW-846/8270		
N-Nitrosodiphenylamine	ND	330	ug/kg	SW-846/8270		
N-Nitrosodi-n-propylamine	ND	330	ug/kg	SW-846/8270		
Pentachlorophenol	ND	825	ug/kg	SW-846/8270		
Phenanthrene	ND	330	ug/kg	SW-846/8270		
Phenol	ND	330	ug/kg	SW-846/8270		
Pyrene	ND	330	ug/kg	SW-846/8270		
1,2,4-Trichlorobenzene	ND	330	ug/kg	SW-846/8270		
2,4,6-Trichlorophenol	ND	330	ug/kg	SW-846/8270		
2,4,5-Trichlorophenol	ND	825	ug/kg	SW-846/8270		
Semivolatile Organics Extraction	COMPLETE			SW-846 3550	05/25/94	CMG
Volatile Organic Contaminants		*1		SW-846/8240	05/26/94	DFM
Acetone	139	10	ug/kg	SW-846/8240		
Benzene	ND	10	ug/kg	SW-846/8240		
Bromodichloromethane	ND	10	ug/kg	SW-846/8240		
Bromoform	ND	10	ug/kg	SW-846/8240		
Bromomethane	ND	10	ug/kg	SW-846/8240		
2-Butanone (MEK)	ND	10	ug/kg	SW-846/8240		
Carbon disulfide	ND	10	ug/kg	SW-846/8240		
Carbon tetrachloride	ND	10	ug/kg	SW-846/8240		
Chlorobenzene	ND	10	ug/kg	SW-846/8240		
Chloroethane	ND	10	ug/kg	SW-846/8240		
Chloroform	ND	10	ug/kg	SW-846/8240		
Chloromethane	ND	10	ug/kg	SW-846/8240		
Dibromochloromethane	ND	10	ug/kg	SW-846/8240		
1,1-Dichloroethane	ND	10	ug/kg	SW-846/8240		
1,2-Dichloroethane	ND	10	ug/kg	SW-846/8240		
1,1-Dichloroethene	ND	10	ug/kg	SW-846/8240		
1,2-Dichloroethene (Total)	ND	10	ug/kg	SW-846/8240		
1,2-Dichloropropane	ND	10	ug/kg	SW-846/8240		
cis-1,3-Dichloropropene	ND	10	ug/kg	SW-846/8240		

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8801

WESTERN ATLAS

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LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942184 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SB-16-02-29 (8'-10')
DATE SAMPLED.....: 05/13/94
TIME SAMPLED.....: 11:00
WORK DESCRIPTION...: DHA-RI

LABORATORY I.D...: 942184-0006
DATE RECEIVED....: 05/16/94
TIME RECEIVED....: 12:00
REMARKS.....:

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
trans-1,3-Dichloropropene	ND	10	ug/kg	SW-846/8240		
Ethylbenzene	ND	10	ug/kg	SW-846/8240		
2-Hexanone	ND	10	ug/kg	SW-846/8240		
Methylene chloride	121	10	ug/kg	SW-846/8240		
4-Methyl-2-pentanone	ND	10	ug/kg	SW-846/8240		
Styrene	ND	10	ug/kg	SW-846/8240		
1,1,2,2-Tetrachloroethane	ND	10	ug/kg	SW-846/8240		
Tetrachloroethene	ND	10	ug/kg	SW-846/8240		
Toluene	ND	10	ug/kg	SW-846/8240		
1,1,1-Trichloroethane	ND	10	ug/kg	SW-846/8240		
1,1,2-Trichloroethane	ND	10	ug/kg	SW-846/8240		
Trichloroethene	ND	10	ug/kg	SW-846/8240		
Total Xylenes	ND	10	ug/kg	SW-846/8240		
Vinyl chloride	ND	10	ug/kg	SW-846/8240		

008802

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008802

8802

WESTERN ATLAS

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LABORATORY TESTS RESULTS

07/21/94

JOB NUMBER: 942184 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SB-17-01-32 (12'-14')
DATE SAMPLED.....: 05/13/94
TIME SAMPLED.....: 14:00
WORK DESCRIPTION...: DHA-RI

LABORATORY I.D...: 942184-0007
DATE RECEIVED....: 05/16/94
TIME RECEIVED....: 12:00
REMARKS.....: **SAMPLE ON HOLD**

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN

008803

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WESTERN ATLAS

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LABORATORY TESTS RESULTS

07/21/94

JOB NUMBER: 942184 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-EB-01-33
DATE SAMPLED.....: 05/13/94
TIME SAMPLED.....: 14:25
WORK DESCRIPTION...: DHA-RI

LABORATORY I.D...: 942184-0008
DATE RECEIVED....: 05/16/94
TIME RECEIVED....: 12:00
REMARKS.....:

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Digestion for Metals	COMPELTE			SW-846/3010	05/20/94	BNL
Arsenic (As), total	<0.1	0.1	mg/L	SW-846/6010	05/20/94	NDF
Cadmium (Cd), total	<0.05	0.05	mg/L	SW-846/6010	05/20/94	NDF
Lead (Pb), total	<0.05	0.05	mg/L	SW-846/6010	05/20/94	NDF

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WESTERN ATLAS

Core Laboratories

QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942184 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (|A-B|)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER:Arsenic (As), total				DATE/TIME ANALYZED:05/20/94 15:34						QC BATCH NUMBER:977585
REPORTING LIMIT/DF: 0.1 UNITS:mg/L				METHOD REFERENCE :SW-846/6010						TECHNICIAN:NDF
BLANK	ICB	CB140	<0.1							
BLANK	MB	LB140	<0.1							
STANDARD	ICV	QCS19	4.88			5.00	98			
STANDARD	ICV	QC19N	0.98			1.00	98			
STANDARD	LCCS	052094	1.02			1.00	102			
SPIKE	MS	942228-001	1.06					0	1.00	106
DUPLICATE	MD	942228-001	<0.1	<0.1	NC					
PARAMETER:Cadmium (Cd), total				DATE/TIME ANALYZED:05/20/94 15:37						QC BATCH NUMBER:977587
REPORTING LIMIT/DF: 0.05 UNITS:mg/L				METHOD REFERENCE :SW-846/6010						TECHNICIAN:NDF
BLANK	ICB	CB140	<0.05							
BLANK	MB	LB140	<0.05							
STANDARD	ICV	QCS19	5.01			5.00	100			
STANDARD	ICV	QC19N	1.03			1.00	103			
STANDARD	LCS	052094	0.99			1.00	99			
KE	MS	942228-001	1.02					0	1.00	102
LICATE	MD	942228-001	<0.05	<0.05	NC					
PARAMETER:Lead (Pb), total				DATE/TIME ANALYZED:05/20/94 15:39						QC BATCH NUMBER:977593
REPORTING LIMIT/DF: 0.05 UNITS:mg/L				METHOD REFERENCE :SW-846/6010						TECHNICIAN:NDF
BLANK	ICB	CB140	<0.05							
BLANK	MB	LB140	<0.05							
STANDARD	ICV	QCS19	5.17			5.00	103			
STANDARD	ICV	QC19N	1.00			1.00	100			
STANDARD	LCS	052094	0.99			1.00	99			
SPIKE	MS	942228-001	1.01					0	1.00	101
DUPLICATE	MD	942228-001	<0.05	<0.05	NC					

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WESTERN ATLAS

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QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942184 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Semi-volatile Organic Contaminants DATE ANALYZED: 05/27/94 TIME ANALYZED: 14:45 METHOD: SW-846/8270 QC NUMBER:978147

BLANKS

TEST DESCRIPTION	ANALY SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Phenol	MB	SON052594S	1	<10	10	ug/L
2-Chlorophenol	MB	SON052594S	1	<10	10	ug/L
1,4-Dichlorobenzene	MB	SON052594S	1	<10	10	ug/L
N-Nitrosodi-n-propylamine	MB	SON052594S	1	<10	10	ug/L
1,2,4-Trichlorobenzene	MB	SON052594S	1	<10	10	ug/L
4-Chloro-3-methylphenol	MB	SON052594S	1	<10	10	ug/L
Acenaphthene	MB	SON052594S	1	<10	10	ug/L
4-Nitrophenol	MB	SON052594S	1	<25	25	ug/L
2,4-Dinitrotoluene	MB	SON052594S	1	<10	10	ug/L
Pentachlorophenol	MB	SON052594S	1	<25	25	ug/L
Pyrene	MB	SON052594S	1	<10	10	ug/L
Acenaphthylene	MB	SON052594S	1	<10	10	ug/L
Anthracene	MB	SON052594S	1	<10	10	ug/L
Benzo(a)anthracene	MB	SON052594S	1	<10	10	ug/L
Benzo(b)fluoranthene	MB	SON052594S	1	<10	10	ug/L
nzo(k)fluoranthene	MB	SON052594S	1	<10	10	ug/L
zo(ghi)perylene	MB	SON052594S	1	<10	10	ug/L
zo(a)pyrene	MB	SON052594S	1	<10	10	ug/L
bis(2-chloroethoxy)methane	MB	SON052594S	1	<10	10	ug/L
Bis(2-chloroethyl)ether	MB	SON052594S	1	<10	10	ug/L
Bis(2-chloroisopropyl)ether	MB	SON052594S	1	<10	10	ug/L
Bis(2-ethylhexyl) phthalate	MB	SON052594S	1	<10	10	ug/L
4-Bromophenyl phenyl ether	MB	SON052594S	1	<10	10	ug/L
Butyl benzyl phthalate	MB	SON052594S	1	<10	10	ug/L
Carbazole	MB	SON052594S	1	<10	10	ug/L
4-Chloroaniline	MB	SON052594S	1	<10	10	ug/L
2-Chloronaphthalene	MB	SON052594S	1	<10	10	ug/L
4-Chlorophenyl phenyl ether	MB	SON052594S	1	<10	10	ug/L
Chrysene	MB	SON052594S	1	<10	10	ug/L
2-Methylphenol	MB	SON052594S	1	<10	10	ug/L
4-Methylphenol	MB	SON052594S	1	<10	10	ug/L
Dibenzo(a,h)anthracene	MB	SON052594S	1	<10	10	ug/L
Dibenzofuran	MB	SON052594S	1	<10	10	ug/L
Di-n-butyl phthalate	MB	SON052594S	1	<10	10	ug/L
1,2-Dichlorobenzene	MB	SON052594S	1	<10	10	ug/L
1,3-Dichlorobenzene	MB	SON052594S	1	<10	10	ug/L
3,3'-Dichlorobenzidine	MB	SON052594S	1	<10	10	ug/L
2,4-Dichlorophenol	MB	SON052594S	1	<10	10	ug/L
Diethyl phthalate	MB	SON052594S	1	<10	10	ug/L
2,4-Dimethylphenol	MB	SON052594S	1	<10	10	ug/L
Dimethyl phthalate	MB	SON052594S	1	<10	10	ug/L
2,4-Dinitrophenol	MB	SON052594S	1	<25	25	ug/L
2,6-Dinitrotoluene	MB	SON052594S	1	<10	10	ug/L
Di-n-octyl phthalate	MB	SON052594S	1	<10	10	ug/L
Fluoranthene	MB	SON052594S	1	<10	10	ug/L
Fluorene	MB	SON052594S	1	<10	10	ug/L

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WESTERN ATLAS

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QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942184 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Semi-volatile Organic Contaminants DATE ANALYZED: 05/27/94 TIME ANALYZED: 14:45 METHOD: SW-846/8270 QC NUMBER:978147

BLANKS

TEST DESCRIPTION	ANALY SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Hexachlorobenzene	MB	SON052594S	1	<10	10	ug/L
Hexachlorobutadiene	MB	SON052594S	1	<10	10	ug/L
Hexachlorocyclopentadiene	MB	SON052594S	1	<10	10	ug/L
Hexachloroethane	MB	SON052594S	1	<10	10	ug/L
Indenol(1,2,3-cd)pyrene	MB	SON052594S	1	<10	10	ug/L
Isophorone	MB	SON052594S	1	<10	10	ug/L
2-Methyl-4,6-dinitrophenol	MB	SON052594S	1	<25	25	ug/L
2-Methylnaphthalene	MB	SON052594S	1	<10	10	ug/L
Naphthalene	MB	SON052594S	1	<10	10	ug/L
2-Nitroaniline	MB	SON052594S	1	<25	25	ug/L
3-Nitroaniline	MB	SON052594S	1	<25	25	ug/L
4-Nitroaniline	MB	SON052594S	1	<25	25	ug/L
Nitrobenzene	MB	SON052594S	1	<10	10	ug/L
2-Nitrophenol	MB	SON052594S	1	<10	10	ug/L
N-Nitrosodiphenylamine	MB	SON052594S	1	<10	10	ug/L
henanthrene	MB	SON052594S	1	<10	10	ug/L
.6-Trichlorophenol	MB	SON052594S	1	<10	10	ug/L
,5-Trichlorophenol	MB	SON052594S	1	<25	25	ug/L

008807

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QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942184 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Semi-volatile Organic Contaminants DATE ANALYZED: 05/27/94 TIME ANALYZED: 14:45 METHOD: SW-846/8270 QC NUMBER:978147

REFERENCE STANDARDS

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	TRUE VALUE	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
2-Fluorophenol	SS	942183-001	1	106	200	53	10	ug/L
	SS	942183-002	1	101	200	50	10	ug/L
	SS	942184-001	1	118	200	59	10	ug/L
	SS	942184-002	1	125	200	62	10	ug/L
Phenol-d5	SS	942183-001	1	102	200	51	10	ug/L
	SS	942183-002	1	97	200	48	10	ug/L
	SS	942184-001	1	117	200	58	10	ug/L
	SS	942184-002	1	121	200	60	10	ug/L
Nitrobenzene-d5	SS	942183-001	1	59	100	59	10	ug/L
	SS	942183-002	1	57	100	57	10	ug/L
	SS	942184-001	1	65	100	65	10	ug/L
	SS	942184-002	1	71	100	71	10	ug/L
2-Fluorobiphenyl	SS	942183-001	1	63	100	63	10	ug/L
	SS	942183-002	1	59	100	59	10	ug/L
	SS	942184-001	1	69	100	69	10	ug/L
	SS	942184-002	1	71	100	71	10	ug/L
,6-tribromophenol	SS	942183-001	1	108	200	54	10	ug/L
	SS	942183-002	1	101	200	50	10	ug/L
	SS	942184-001	1	118	200	59	10	ug/L
	SS	942184-002	1	111	200	56	10	ug/L
p-Terphenyl-d14	SS	942183-001	1	66	100	66	10	ug/L
	SS	942183-002	1	60	100	60	10	ug/L
	SS	942184-001	1	67	100	67	10	ug/L
	SS	942184-002	1	64	100	64	10	ug/L

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QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942184 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Semi-volatile Organic Contaminants DATE ANALYZED: 05/27/94 TIME ANALYZED: 14:45 METHOD: SW-846/8270 QC NUMBER:978147

MATRIX SPIKES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Phenol	MS	942301-001	1	67	0	100	67	10	ug/L
2-Chlorophenol	MS	942301-001	1	66	0	100	66	10	ug/L
1,4-Dichlorobenzene	MS	942301-001	1	57	0	100	57	10	ug/L
N-Nitrosodi-n-propylamine	MS	942301-001	1	63	0	100	63	10	ug/L
1,2,4-Trichlorobenzene	MS	942301-001	1	60	0	100	60	10	ug/L
4-Chloro-3-methylphenol	MS	942301-001	1	66	0	100	66	10	ug/L
Acenaphthene	MS	942301-001	1	58	0	100	58	10	ug/L
4-Nitrophenol	MS	942301-001	1	56	0	100	56	25	ug/L
2,4-Dinitrotoluene	MS	942301-001	1	51	0	100	51	10	ug/L
Pentachlorophenol	MS	942301-001	1	<25	<25	<25	NC	25	ug/L
Pyrene	MS	942301-001	1	54	0	100	54	10	ug/L

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QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942184 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Semi-volatile Organic Contaminants DATE ANALYZED: 05/27/94 TIME ANALYZED: 14:45 METHOD: SW-846/8270 QC NUMBER:978147

DUPLICATES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (|A-B|)	DETECTION LIMITS	UNITS OF MEASURE
Phenol	MSD	942301-001	1	67	78	15	10	ug/L
2-Chlorophenol	MSD	942301-001	1	66	74	11	10	ug/L
1,4-Dichlorobenzene	MSD	942301-001	1	57	56	2	10	ug/L
N-Nitrosodi-n-propylamine	MSD	942301-001	1	63	70	11	10	ug/L
1,2,4-Trichlorobenzene	MSD	942301-001	1	60	57	5	10	ug/L
4-Chloro-3-methylphenol	MSD	942301-001	1	66	70	6	10	ug/L
Acenaphthene	MSD	942301-001	1	58	58	0	10	ug/L
4-Nitrophenol	MSD	942301-001	1	56	62	6	25	ug/L
2,4-Dinitrotoluene	MSD	942301-001	1	51	53	4	10	ug/L
Pentachlorophenol	MSD	942301-001	1	<25	<25	NC	25	ug/L
Pyrene	MSD	942301-001	1	54	57	5	10	ug/L

008810

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8810

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QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942184 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Volatile Organic Contaminants DATE ANALYZED: 05/26/94 TIME ANALYZED: 14:58 METHOD: SW-846/8240 QC NUMBER:978152

BLANKS

TEST DESCRIPTION	ANALY SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Benzene	IB	GCMS052694	1	<10	10	ug/L
	IB	GCMS060294	1	<10	10	ug/L
1,1-Dichloroethene	IB	GCMS052694	1	<10	10	ug/L
	IB	GCMS060294	1	<10	10	ug/L
Trichloroethene	IB	GCMS052694	1	<10	10	ug/L
	IB	GCMS060294	1	<10	10	ug/L
Toluene	IB	GCMS052694	1	<10	10	ug/L
	IB	GCMS060294	1	<10	10	ug/L
Chlorobenzene	IB	GCMS052694	1	<10	10	ug/L
	IB	GCMS060294	1	<10	10	ug/L
Acetone	IB	GCMS052694	1	<10	10	ug/L
	IB	GCMS060294	1	<10	10	ug/L
Bromodichloromethane	IB	GCMS052694	1	<10	10	ug/L
	IB	GCMS060294	1	<10	10	ug/L
Bromoform	IB	GCMS052694	1	<10	10	ug/L
	IB	GCMS060294	1	<10	10	ug/L
nomethane	IB	GCMS052694	1	<10	10	ug/L
	IB	GCMS060294	1	<10	10	ug/L
c-Butanone (MEK)	IB	GCMS052694	1	<10	10	ug/L
	IB	GCMS060294	1	<10	10	ug/L
Carbon disulfide	IB	GCMS052694	1	<10	10	ug/L
	IB	GCMS060294	1	<10	10	ug/L
Carbon tetrachloride	IB	GCMS052694	1	<10	10	ug/L
	IB	GCMS060294	1	<10	10	ug/L
Chloroethane	IB	GCMS052694	1	<10	10	ug/L
	IB	GCMS060294	1	<10	10	ug/L
Chloroform	IB	GCMS052694	1	<10	10	ug/L
	IB	GCMS060294	1	<10	10	ug/L
Chloromethane	IB	GCMS052694	1	<10	10	ug/L
	IB	GCMS060294	1	<10	10	ug/L
Dibromochloromethane	IB	GCMS052694	1	<10	10	ug/L
	IB	GCMS060294	1	<10	10	ug/L
1,1-Dichloroethane	IB	GCMS052694	1	<10	10	ug/L
	IB	GCMS060294	1	<10	10	ug/L
1,2-Dichloroethane	IB	GCMS052694	1	<10	10	ug/L
	IB	GCMS060294	1	<10	10	ug/L
1,2-Dichloroethene (Total)	IB	GCMS052694	1	<10	10	ug/L
	IB	GCMS060294	1	<10	10	ug/L
1,2-Dichloropropane	IB	GCMS052694	1	<10	10	ug/L
	IB	GCMS060294	1	<10	10	ug/L
cis-1,3-Dichloropropene	IB	GCMS052694	1	<10	10	ug/L
	IB	GCMS060294	1	<10	10	ug/L
trans-1,3-Dichloropropene	IB	GCMS052694	1	<10	10	ug/L
	IB	GCMS060294	1	<10	10	ug/L
Ethylbenzene	IB	GCMS052694	1	<10	10	ug/L
	IB	GCMS060294	1	<10	10	ug/L

008811

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QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942184 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Volatile Organic Contaminants DATE ANALYZED: 05/26/94 TIME ANALYZED: 14:58 METHOD: SW-846/8240 QC NUMBER:978152

BLANKS

TEST DESCRIPTION	ANALY	SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
2-Hexanone	IB		GCMS052694	1	<10	10	ug/L
	IB		GCMS060294	1	<10	10	ug/L
Methylene chloride	IB		GCMS052694	1	<10	10	ug/L
	IB		GCMS060294	1	<10	10	ug/L
4-Methyl-2-pentanone	IB		GCMS052694	1	<10	10	ug/L
	IB		GCMS060294	1	<10	10	ug/L
Styrene	IB		GCMS052694	1	<10	10	ug/L
	IB		GCMS060294	1	<10	10	ug/L
1,1,2,2-Tetrachloroethane	IB		GCMS052694	1	<10	10	ug/L
	IB		GCMS060294	1	<10	10	ug/L
Tetrachloroethene	IB		GCMS052694	1	<10	10	ug/L
	IB		GCMS060294	1	<10	10	ug/L
1,1,1-Trichloroethane	IB		GCMS052694	1	<10	10	ug/L
	IB		GCMS060294	1	<10	10	ug/L
1,1,2-Trichloroethane	IB		GCMS052694	1	<10	10	ug/L
	IB		GCMS060294	1	<10	10	ug/L
al Xylenes	IB		GCMS052694	1	<10	10	ug/L
	IB		GCMS060294	1	<10	10	ug/L
Vinyl chloride	IB		GCMS052694	1	<10	10	ug/L
	IB		GCMS060294	1	<10	10	ug/L

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8812

WESTERN ATLAS

Core Laboratories

QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942184 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Volatile Organic Contaminants DATE ANALYZED: 05/26/94 TIME ANALYZED: 14:58 METHOD: SW-846/8240 QC NUMBER:978152

REFERENCE STANDARDS

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	TRUE VALUE	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
1,2-Dichloroethane-d4	SS	942184-01	1	46	50	92	10	ug/L
	SS	942184-02	1	46	50	92	10	ug/L
	SS	942184-03	1	46	50	92	10	ug/L
	SS	942184-05	1	48	50	96	10	ug/L
	SS	942184-06	1	49	50	98	10	ug/L
Toluene-d8	SS	942184-01	1	50	50	100	10	ug/L
	SS	942184-02	1	51	50	102	10	ug/L
	SS	942184-03	1	50	50	100	10	ug/L
	SS	942184-05	1	51	50	102	10	ug/L
	SS	942184-06	1	58	50	116	10	ug/L
Bromofluorobenzene	SS	942184-01	1	44	50	88	10	ug/L
	SS	942184-02	1	45	50	90	10	ug/L
	SS	942184-03	1	44	50	88	10	ug/L
	SS	942184-05	1	36	50	72	10	ug/L
	SS	942184-06	1	31	50	62	10	ug/L

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8813

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QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942184 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Volatile Organic Contaminants DATE ANALYZED: 05/26/94 TIME ANALYZED: 14:58 METHOD: SW-846/8240 QC NUMBER:978152

MATRIX SPIKES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Benzene	MS	942459-04	1	48	0	50	96	10	ug/L
1,1-Dichloroethene	MS	942459-04	1	41	0	50	82	10	ug/L
Trichloroethene	MS	942459-04	1	49	0	50	98	10	ug/L
Toluene	MS	942459-04	1	48	0	50	96	10	ug/L
Chlorobenzene	MS	942459-04	1	48	0	50	96	10	ug/L

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8814

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JOB NUMBER: 942184 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Volatile Organic Contaminants DATE ANALYZED: 05/26/94 TIME ANALYZED: 14:58 METHOD: SW-846/8240 QC NUMBER:978152

DUPLICATES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (|A-B|)	DETECTION LIMITS	UNITS OF MEASURE
Benzene	MSD	942459-04	1	48	46	2	10	ug/L
1,1-Dichloroethene	MSD	942459-04	1	41	39	2	10	ug/L
Trichloroethene	MSD	942459-04	1	49	47	2	10	ug/L
Toluene	MSD	942459-04	1	48	46	2	10	ug/L
Chlorobenzene	MSD	942459-04	1	48	47	1	10	ug/L

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QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942184 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Semi-volatile Organic Contaminants DATE ANALYZED: 05/31/94 TIME ANALYZED: 14:58 METHOD: SW-846/8270 QC NUMBER:978153

BLANKS

TEST DESCRIPTION	ANALY SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Phenol	MB	SON052594S	1	<10	10	ug/L
2-Chlorophenol	MB	SON052594S	1	<10	10	ug/L
1,4-Dichlorobenzene	MB	SON052594B	1	<10	10	ug/L
N-Nitrosodi-n-propylamine	MB	SON052594S	1	<10	10	ug/L
1,2,4-Trichlorobenzene	MB	SON052594S	1	<10	10	ug/L
4-Chloro-3-methylphenol	MB	SON052594S	1	<10	10	ug/L
Acenaphthene	MB	SON052594S	1	<10	10	ug/L
4-Nitrophenol	MB	SON052594S	1	<25	25	ug/L
2,4-Dinitrotoluene	MB	SON052594S	1	<10	10	ug/L
Pentachlorophenol	MB	SON052594S	1	<25	25	ug/L
Pyrene	MB	SON052594S	1	<10	10	ug/L
Acenaphthylene	MB	SON052594S	1	<10	10	ug/L
Anthracene	MB	SON052594S	1	<10	10	ug/L
Benzo(a)anthracene	MB	SON052594S	1	<10	10	ug/L
Benzo(b)fluoranthene	MB	SON052594S	1	<10	10	ug/L
enzo(k)fluoranthene	MB	SON052594S	1	<10	10	ug/L
o(ghi)perylene	MB	SON052594S	1	<10	10	ug/L
zo(a)pyrene	MB	SON052594S	1	<10	10	ug/L
is(2-chloroethoxy)methane	MB	SON052594S	1	<10	10	ug/L
Bis(2-chloroethyl)ether	MB	SON052594S	1	<10	10	ug/L
Bis(2-chloroisopropyl)ether	MB	SON052594S	1	<10	10	ug/L
Bis(2-ethylhexyl) phthalate	MB	SON052594S	1	<10	10	ug/L
4-Bromophenyl phenyl ether	MB	SON052594S	1	<10	10	ug/L
Butyl benzyl phthalate	MB	SON052594S	1	<10	10	ug/L
Carbazole	MB	SON052594S	1	<10	10	ug/L
4-Chloroaniline	MB	SON052594S	1	<10	10	ug/L
2-Chloronaphthalene	MB	SON052594S	1	<10	10	ug/L
4-Chlorophenyl phenyl ether	MB	SON052594S	1	<10	10	ug/L
Chrysene	MB	SON052594S	1	<10	10	ug/L
2-Methylphenol	MB	SON052594S	1	<10	10	ug/L
4-Methylphenol	MB	SON052594S	1	<10	10	ug/L
Dibenzo(a,h)anthracene	MB	SON052594S	1	<10	10	ug/L
Dibenzofuran	MB	SON052594S	1	<10	10	ug/L
Di-n-butyl phthalate	MB	SON052594S	1	<10	10	ug/L
1,2-Dichlorobenzene	MB	SON052594S	1	<10	10	ug/L
1,3-Dichlorobenzene	MB	SON052594S	1	<10	10	ug/L
3,3'-Dichlorobenzidine	MB	SON052594S	1	<10	10	ug/L
2,4-Dichlorophenol	MB	SON052594S	1	<10	10	ug/L
Diethyl phthalate	MB	SON052594S	1	<10	10	ug/L
2,4-Dimethylphenol	MB	SON052594S	1	<10	10	ug/L
Dimethyl phthalate	MB	SON052594S	1	<10	10	ug/L
2,4-Dinitrophenol	MB	SON052594S	1	<25	25	ug/L
2,6-Dinitrotoluene	MB	SON052594S	1	<10	10	ug/L
Di-n-octyl phthalate	MB	SON052594S	1	<10	10	ug/L
Fluoranthene	MB	SON052594S	1	<10	10	ug/L
Fluorene	MB	SON052594S	1	<10	10	ug/L

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8816

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QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942184 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Semi-volatile Organic Contaminants DATE ANALYZED: 05/31/94 TIME ANALYZED: 14:58 METHOD: SW-846/8270 QC NUMBER:978153

BLANKS

TEST DESCRIPTION	ANALY	SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Hexachlorobenzene	MB		SON052594S	1	<10	10	ug/L
Hexachlorobutadiene	MB		SON052594S	1	<10	10	ug/L
Hexachlorocyclopentadiene	MB		SON052594S	1	<10	10	ug/L
Hexachloroethane	MB		SON052594S	1	<10	10	ug/L
Indenol(1,2,3-cd)pyrene	MB		SON052594S	1	<10	10	ug/L
Isophorone	MB		SON052594S	1	<10	10	ug/L
2-Methyl-4,6-dinitrophenol	MB		SON052594S	1	<25	25	ug/L
2-Methylnaphthalene	MB		SON052594S	1	<10	10	ug/L
Naphthalene	MB		SON052594S	1	<10	10	ug/L
2-Nitroaniline	MB		SON052594S	1	<25	25	ug/L
3-Nitroaniline	MB		SON052594S	1	<25	25	ug/L
4-Nitroaniline	MB		SON052594S	1	<25	25	ug/L
Nitrobenzene	MB		SON052594S	1	<10	10	ug/L
2-Nitrophenol	MB		SON052594S	1	<10	10	ug/L
N-Nitrosodiphenylamine	MB		SON052594S	1	<10	10	ug/L
henanthrene	MB		SON052594S	1	<10	10	ug/L
,6-Trichlorophenol	MB		SON052594S	1	<10	10	ug/L
,5-Trichlorophenol	MB		SON052594S	1	<25	25	ug/L

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QUALITY CONTROL REPORT
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Semi-volatile Organic Contaminants DATE ANALYZED: 05/31/94 TIME ANALYZED: 14:58 METHOD: SW-846/8270 QC NUMBER:978153

REFERENCE STANDARDS

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	TRUE VALUE	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
2-Fluorophenol	SS	942184-003	1	118	200	59	10	ug/L
	SS	942184-005	1	78	200	39	10	ug/L
	SS	942184-006	1	139	200	70	10	ug/L
	SS	942301-001	1	117	200	58	10	ug/L
	SS	942301-002	1	139	200	70	10	ug/L
	SS	942301-003	1	130	200	65	10	ug/L
	SS	942301-004	1	97	200	48	10	ug/L
	SS	942349-003	1	140	200	70	10	ug/L
Phenol-d5	SS	942184-003	1	111	200	56	10	ug/L
	SS	942184-005	1	83	200	42	10	ug/L
	SS	942184-006	1	137	200	68	10	ug/L
	SS	942301-001	1	103	200	52	10	ug/L
	SS	942301-002	1	136	200	68	10	ug/L
	SS	942301-003	1	120	200	60	10	ug/L
	SS	942301-004	1	94	200	47	10	ug/L
	SS	942349-003	1	138	200	69	10	ug/L
robenzene-d5	SS	942184-003	1	60	100	60	10	ug/L
	SS	942184-005	1	39	100	39	10	ug/L
	SS	942184-006	1	69	100	69	10	ug/L
	SS	942301-001	1	55	100	55	10	ug/L
	SS	942301-002	1	76	100	76	10	ug/L
	SS	942301-003	1	64	100	64	10	ug/L
	SS	942301-004	1	50	100	50	10	ug/L
	SS	942349-003	1	72	100	72	10	ug/L
2-Fluorobiphenyl	SS	942184-003	1	60	100	60	10	ug/L
	SS	942184-005	1	46	100	46	10	ug/L
	SS	942184-006	1	69	100	69	10	ug/L
	SS	942301-001	1	51	100	51	10	ug/L
	SS	942301-002	1	58	100	58	10	ug/L
	SS	942301-003	1	62	100	62	10	ug/L
	SS	942301-004	1	50	100	50	10	ug/L
	SS	942349-003	1	67	100	67	10	ug/L
2,4,6-tribromophenol	SS	942184-003	1	116	200	58	10	ug/L
	SS	942184-005	1	91	200	46	10	ug/L
	SS	942184-006	1	130	200	65	10	ug/L
	SS	942301-001	1	91	200	46	10	ug/L
	SS	942301-002	1	115	200	57	10	ug/L
	SS	942301-003	1	119	200	60	10	ug/L
	SS	942301-004	1	103	200	52	10	ug/L
	SS	942349-003	1	152	200	76	10	ug/L
p-Terphenyl-d14	SS	942184-003	1	61	100	61	10	ug/L
	SS	942184-005	1	55	100	55	10	ug/L
	SS	942184-006	1	73	100	73	10	ug/L
	SS	942301-001	1	47	100	47	10	ug/L
	SS	942301-002	1	49	100	49	10	ug/L

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8818

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QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942184 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Semi-volatile Organic Contaminants DATE ANALYZED: 05/31/94 TIME ANALYZED: 14:58 METHOD: SW-846/8270 QC NUMBER:978153

REFERENCE STANDARDS

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	TRUE VALUE	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
	SS	942301-003	1	66	100	66	10	ug/L
	SS	942301-004	1	55	100	55	10	ug/L
	SS	942349-003	1	78	100	78	10	ug/L

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07/21/94

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Semi-volatile Organic Contaminants DATE ANALYZED: 05/31/94 TIME ANALYZED: 14:58 METHOD: SW-846/8270 QC NUMBER:978153

MATRIX SPIKES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Phenol	MS	942301-001	1	67	0	100	67	10	ug/L
2-Chlorophenol	MS	942301-001	1	66	0	100	66	10	ug/L
1,4-Dichlorobenzene	MS	942301-001	1	57	0	100	57	10	ug/L
N-Nitrosodi-n-propylamine	MS	942301-001	1	63	0	100	63	10	ug/L
1,2,4-Trichlorobenzene	MS	942301-001	1	60	0	100	60	10	ug/L
4-Chloro-3-methylphenol	MS	942301-001	1	66	0	100	66	10	ug/L
Acenaphthene	MS	942301-001	1	56	0	100	56	10	ug/L
4-Nitrophenol	MS	942301-001	1	56	0	100	56	25	ug/L
2,4-Dinitrotoluene	MS	942301-001	1	51	0	100	51	10	ug/L
Pentachlorophenol	MS	942301-001	1	33	0	100	33	25	ug/L
Pyrene	MS	942301-001	1	54	0	100	54	10	ug/L

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Semi-volatile Organic Contaminants DATE ANALYZED: 05/31/94 TIME ANALYZED: 14:58 METHOD: SW-846/8270 QC NUMBER:978153

DUPLICATES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (|A-B|)	DETECTION LIMITS	UNITS OF MEASURE
Phenol	MSD	942301-001	1	67	78	15	10	ug/L
2-Chlorophenol	MSD	942301-001	1	66	74	11	10	ug/L
1,4-Dichlorobenzene	MSD	942301-001	1	57	56	2	10	ug/L
N-Nitrosodi-n-propylamine	MSD	942301-001	1	63	70	11	10	ug/L
1,2,4-Trichlorobenzene	MSD	942301-001	1	60	57	5	10	ug/L
4-Chloro-3-methylphenol	MSD	942301-001	1	66	70	6	10	ug/L
Acenaphthene	MSD	942301-001	1	58	58	0	10	ug/L
4-Nitrophenol	MSD	942301-001	1	56	62	6	25	ug/L
2,4-Dinitrotoluene	MSD	942301-001	1	51	53	4	10	ug/L
Pentachlorophenol	MSD	942301-001	1	33	19	14	25	ug/L
Pyrene	MSD	942301-001	1	54	57	5	10	ug/L

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8821

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QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942184 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Volatile Organic Contaminants DATE ANALYZED: 05/25/94 TIME ANALYZED: 13:43 METHOD: SW-846/8240 QC NUMBER:978724

BLANKS

TEST DESCRIPTION	ANALY SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Benzene	IB	GCMS052594	1	<10	10	ug/L
1,1-Dichloroethene	IB	GCMS052594	1	<10	10	ug/L
Trichloroethene	IB	GCMS052594	1	<10	10	ug/L
Toluene	IB	GCMS052594	1	<10	10	ug/L
Chlorobenzene	IB	GCMS052594	1	<10	10	ug/L
Acetone	IB	GCMS052594	1	<10	10	ug/L
Bromodichloromethane	IB	GCMS052594	1	<10	10	ug/L
Bromoform	IB	GCMS052594	1	<10	10	ug/L
Bromomethane	IB	GCMS052594	1	<10	10	ug/L
2-Butanone (MEK)	IB	GCMS052594	1	<10	10	ug/L
Carbon disulfide	IB	GCMS052594	1	<10	10	ug/L
Carbon tetrachloride	IB	GCMS052594	1	<10	10	ug/L
Chloroethane	IB	GCMS052594	1	<10	10	ug/L
Chloroform	IB	GCMS052594	1	<10	10	ug/L
Chloromethane	IB	GCMS052594	1	<10	10	ug/L
Dibromochloromethane	IB	GCMS052594	1	<10	10	ug/L
Dichloroethane	IB	GCMS052594	1	<10	10	ug/L
Dichloroethane	IB	GCMS052594	1	<10	10	ug/L
1,2-Dichloroethene (Total)	IB	GCMS052594	1	<10	10	ug/L
1,2-Dichloropropane	IB	GCMS052594	1	<10	10	ug/L
cis-1,3-Dichloropropene	IB	GCMS052594	1	<10	10	ug/L
trans-1,3-Dichloropropene	IB	GCMS052594	1	<10	10	ug/L
Ethylbenzene	IB	GCMS052594	1	<10	10	ug/L
2-Hexanone	IB	GCMS052594	1	<10	10	ug/L
Methylene chloride	IB	GCMS052595	1	<10	10	ug/L
4-Methyl-2-pentanone	IB	GCMS052594	1	<10	10	ug/L
Styrene	IB	GCMS052594	1	<10	10	ug/L
1,1,2,2-Tetrachloroethane	IB	GCMS052594	1	<10	10	ug/L
Tetrachloroethene	IB	GCMS052594	1	<10	10	ug/L
1,1,1-Trichloroethane	IB	GCMS052594	1	<10	10	ug/L
1,1,2-Trichloroethane	IB	GCMS052594	1	<10	10	ug/L
Total Xylenes	IB	GCMS052594	1	<10	10	ug/L
Vinyl chloride	IB	GCMS052594	1	<10	10	ug/L

008822

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al judgment of Core Laboratories. Core Laboratories, however, assumes no responsibility and makes no warranty or representations, express or implied, as to the productivity, proper operations, or profitableness of any oil, gas, coal or
al, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced except in its entirety, without the written approval of Core Laboratories.

008822

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WESTERN ATLAS

Core Laboratories

QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942184 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Volatile Organic Contaminants DATE ANALYZED: 05/25/94 TIME ANALYZED: 13:43 METHOD: SW-846/8240 QC NUMBER:978724

REFERENCE STANDARDS

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	TRUE VALUE	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
1,2-Dichloroethane-d4	SS	942184-04	1	45	50	90	10	ug/L
Toluene-d8	SS	942184-04	1	50	50	100	10	ug/L
Bromofluorobenzene	SS	942184-04	1	45	50	90	10	ug/L

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WESTERN ATLAS

Core Laboratories

QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942184 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Volatile Organic Contaminants DATE ANALYZED: 05/25/94 TIME ANALYZED: 13:43 METHOD: SW-846/8240 QC NUMBER:978724

MATRIX SPIKES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Benzene	MS	942615-09	1	59	0	50	118	10	ug/L
1,1-Dichloroethene	MS	942615-09	1	39	0	50	78	10	ug/L
Trichloroethene	MS	942615-09	1	59	0	50	118	10	ug/L
Toluene	MS	942615-09	1	59	0	50	118	10	ug/L
Chlorobenzene	MS	942459-09	1	58	0	50	116	10	ug/L

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(318) 583-4926

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WESTERN ATLAS

Core Laboratories

QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942184 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Volatile Organic Contaminants DATE ANALYZED: 05/25/94 TIME ANALYZED: 13:43 METHOD: SW-846/8240 QC NUMBER:978724

DUPLICATES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (|A-B|)	DETECTION LIMITS	UNITS OF MEASURE
Benzene	MSD	942615-09	1	59	49	19	10	ug/L
1,1-Dichloroethene	MSD	942615-09	1	39	47	8	10	ug/L
Trichloroethene	MSD	942459-09	1	59	49	19	10	ug/L
Toluene	MSD	942459-09	1	59	49	19	10	ug/L
Chlorobenzene	MSD	942459-09	1	58	47	21	10	ug/L

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(318) 583-4926

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WESTERN ATLAS

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QUALITY ASSURANCE FOOTER
REPORT DATE

ND = Analyte Not Detected above the quantitation limit

The detection limit and units reported in the Quality Assurance (QA) Report may not coincide with the values reported in the Analytical Report because the data presented in the QA Report may not account for sample preparation and dilutions performed.

The date and time analyzed on the Quality Assurance Report may not reflect the actual date and/or time of analysis.

Results for soil samples are reported on a wet weight basis (unless otherwise indicated).

Cited Methods are obtained from the following documents:
- EPA 600/4-79-020, Methods for Chemical Analysis of Water and Wastes, March 1983
- Standard Methods for the Chemical Analysis of Water and Wastewater, 17th Edition, 1989
- Federal Register, Friday, October 26, 1984 (40 CRF Part 136)
- Standard Methods for the Examination of Water and Wastewater, 16th Edition, 1985

Numerical values expressed in the "LIMITS/*DILUTION" column are Method Quantitation Limits (MQL). A final result of "ND" should be considered as "less than the MQL" (<MQL) unless it is noted otherwise.

008826

SUBCONTRACTED LABORATORY LOCATIONS

For analysis performed by a subcontract laboratory, an "*" and the designated laboratory code is indicated in the "TECHN" column of the laboratory test results report.

Core Laboratories:		Other Laboratories:	
Anaheim	* A N	Saybolt	* 0 1
Aurora	* A U	Caleb Brett	* 0 2
Carrollton	* C R	Maxim	* 0 3
Casper	* C A	Southwestern Labs	* 0 4
Corpus Christi	* C C	Analytichem	* 0 5
Hollister	* H R	Other	* 0 0
Houston	* H P		
Long Beach	* L B		
New Orleans	* N O		

QUALITY ASSURANCE REPORT CODES

NC = Not Calculable due to values lower than the reporting limit

BLANKS	REFERENCE STANDARDS	SPIKES	DUPLICATES
MB = Method Blank	CS = Calibration Standard	MS = Matrix Spike	MSD = Matrix Spike Duplicate
RB = Reagent Blank	RS = Reference Standard	PDS = Post-Digest Spike	SD = Sample Duplicate
IB = Instrument Blan	ICV = Initial Calib. Verification	BS = Blank Spike	MD = Method Duplicate
ICB = Initial Calib. Blank	CCV = Continuing Calib. Verification	SS = Surrogate Spike	
CCB = Continuing Calib. Blank	LCS = Laboratory Control Standard		

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8826

No. 7664

WESTERN ATLAS

CORE LABORATORIES

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: RMT/JN	PROJECT NAME/NUMBER: DHA. - RI
SEND REPORT TO: SAME	BILLING INFORMATION
ADDRESS: 12655 N. CENT. EXPRESSWAY. SUIT 323 DALLAS 75243	BILL TO:
	ADDRESS: SAME
PHONE: (214) 490-8696	PHONE:
FAX:	FAX: PO NO.:

LAB JOB NO. 942184

SAMPLE NO.	SAMPLE ID	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE	PRES.	NUMBER OF CONTAINERS	TAL	TCL	% moisture	GRAIN SIZE	TOC				REMARKS / PRECAUTIONS
1	RI-SB-13-01-08 (0'-2')	5/12/94	2:26	soil	90z	none	1	✓								
2	RI-SB-13-02-09 (2'-4')	5/12/94	2:30	"	"	"	1	✓								
3	RI-SB-13-03-10 (5'-7')	5/12/94	2:40	"	"	"	1	✓								
4	RI-SB-13-04-11 (14'-17')	5/12/94	2:50	"	"	"	2	✓		(✓)	✓	✓				2nd Bottle
5	RI-SB-13-05-12 (14'-16')	5/12/94	2:45	"	"	"	1		✓							
6	RI-SB-13-06-13 (15'-16')	5/12/94	2:55	"	"	"	1		✓							
~~7~~	~~RI-SB-13-07-14~~															
7	RI-SB-14-01-14 (0'-2')	5/12/94	4:00	"	"	"	1	✓								
8	RI-SB-14-02-15 (5'-7')	5/12/94	4:10	"	"	"	1	✓								
9	RI-SB-14-03-16 (10'-15')	5/12/94	4:20	"	"	"	1	✓								Hold For Analysis

SAMPLER: Cheryl Smith

SHIPMENT METHOD:

AIRBILL NO.:

REQUIRED TURNAROUND: [ ] SAME DAY [ ] 24 HOURS [ ] 48 HOURS [ ] 72 HOURS [ ] 5 DAYS [ ] 10 DAYS [X] ROUTINE OTHER: Call Ed York

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Mike Whitehead	5/13/94	SIGNATURE: Federal Express		SIGNATURE:	
PRINTED NAME/COMPANY: Mike Whitehead / JN	TIME: 15:30	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE: Terri Brown	5/13/94	SIGNATURE: Jessica Montfore	5/16/94	SIGNATURE:	
PRINTED NAME/COMPANY: Terri Brown / CoreLab	TIME: 15:30	PRINTED NAME/COMPANY: Jessica Montfore Core	TIME: 1000	PRINTED NAME/COMPANY:	TIME

008827

RUSH TURNAROUND MAY REQUIRE SURCHARGE

008827

8827

[ ] California, Autry Way, California 92805

[ ] Long Beach, California, 3700 Cherry Avenue, Long Beach, California 90807, (310) 595-8401, (800) 814-3433

[ ] Denver (Aurora), Colorado, 10703 E. Bethany Drive, Aurora, Colorado 80014, (303) 751-1780, (800) 972-2673

[ ] Casper, Wyoming, 420 West 1st Street, Casper, Wyoming 82601, (307) [illegible]-5741, ([illegible]) [illegible]603

[ ] Houston, Texas, 8210 Mosely Road, Houston, Texas 77075, (713) 943-9776, (800) 734-2673

[ ] Corpus Christi, Texas, 1733 North Padre Island Drive, Corpus Christi, Texas 78408, (512) 289-2673, (800) 548-8228

[ ] Lake Charles, Louisiana, 3645 Beglis Parkway, Sulphur, Louisiana 70663, [illegible] 583-4926, [illegible] 559-4926

WESTERN ATLAS

CORE LABORATORIES

No. 00666

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: RMT/SN	PROJECT NAME/NUMBER: DHA - RI.
SEND REPORT TO: Same	BILLING INFORMATION
ADDRESS: 12655 N. Cent. Expressway, Suite 323, Dallas, TX. 75243	BILL TO:
	ADDRESS:
PHONE: (214) 490-8676	PHONE:
FAX:	FAX: PO NO.:

LAB JOB NO. 942184

	SAMPLE NO.	SAMPLE ID	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE	PRES.	NUMBER OF CONTAINERS	TAL	TCL	% moisture	Grain size	TOC			REMARKS / PRECAUTIONS
3	10	RI-SB-14-04-17 (17-19')	5/12/94	4:30	soil	9 oz	None	1		✓						
	11	RI-SB-14-05-18 (17-19')	5/12/94	4:40	soil	9 oz	None	1	✓							
	12	RI-SB-14-06-17 (19-20')	5/12/94	4:45	soil	9 oz	None	1			✓	✓	✓			

SAMPLER: [illegible], C Doyle

SHIPMENT METHOD:

AIRBILL NO.:

REQUIRED TURNAROUND: ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☒ ROUTINE OTHER Call Ed York

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Mike Whitehead	5/13/94	SIGNATURE: Federal Express	5	SIGNATURE:	
PRINTED NAME/COMPANY: Mike Whitehead CJN	TIME: 15:30	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE: Terri Brown	5/13/94	SIGNATURE: Jessica Monfore	5/16/94	SIGNATURE:	
PRINTED NAME/COMPANY: Terri Brown Core Lab	TIME: 15:30	PRINTED NAME/COMPANY: Jessica Monfore Core Lab	TIME: 1200	PRINTED NAME/COMPANY:	TIME

USH TURNAROUND MAY REQUIRE SURCHARGE

008828

☐ Anaheim, California [illegible] Industry Way [illegible]rnia 92805

☐ Long Beach, California 3700 Cherry Avenue Long Beach, California 90807 (310) 595-8401 (800) 814-3433

☐ Denver (Aurora), Colorado 10703 E. Bethany Drive Aurora, Colorado 80014 (303) 751-1780 (800) 972-2673

☐ Casper, Wyoming 420 West 1st Street Casper, Wyoming 82601 (307) [illegible]-5741 (80[illegible]-[illegible]03

☐ Houston, Texas 8210 Mosely Road Houston, Texas 77075 (713) 943-9776 (800) 734-2673

008828

☐ Corpus Christi, Texas 1733 North Padre Island Drive Corpus Christi, Texas 78408 (512) 289-2673 (800) 548-8228

☐ Lake Charles, Louisiana 3645 Beglis Parkway Sulphur, Louisiana 70663 [illegible]583-4926 [illegible]8-4926

8828

WESTERN ATLAS

CORE LABORATORIES

No. 00668

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: RMT/JN - DALLAS	PROJECT NAME/NUMBER: DHA - RI
SEND REPORT TO: SAME	BILLING INFORMATION
ADDRESS:	BILL TO:
	ADDRESS: SAME
PHONE: (214) 490-8696	PHONE:
FAX:	FAX: PO NO.:

LAB JOB NO. 942184

SAMPLE NO.	SAMPLE ID	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE	PRES.	NUMBER OF CONTAINERS	TPH	TCLP	Lo MISTURE	GRAIN SIZE	TOC				REMARKS / PRECAUTIONS
1	RI-TB-01-20	5/13/94	8:00	WATER	VOA	NONE	2		✓							VOA ONLY
2	RI-SB-15-01-21 (6'-2')		9:15	SOIL	902	NONE	1	✓								
3	RI-SB-15-02-22 (10'-12')		9:20				1	✓								
4	RI-SB-15-03-23 (11'-13')		9:25				1	✓								
5	RI-SB-15-04-24 (10'-12')		9:30				2		✓							
6	RI-SB-15-05-25 (5'-7')		9:40				1	✓								HOLD FOR ANALYSIS
7	RI-SB-15-06-26 (15'-17')		9:45				1	✓								
8	RI-SB-15-07-27 (15'-17')		9:50				1			✓	✓	✓				
9	RI-SB-16-01-28 (0'-2')		10:50				1	✓								Hold For Analysis
10	RI-SB-16-02-29 (8'-10')		11:00				3	✓	✓							

SAMPLER: [illegible], Clayle

SHIPMENT METHOD:

AIRBILL NO.:

REQUIRED TURNAROUND:* [ ] SAME DAY [ ] 24 HOURS [ ] 48 HOURS [ ] 72 HOURS [ ] 5 DAYS [ ] 10 DAYS [ ] ROUTINE [X] OTHER Call Ed York

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Mike Whitehead	5/13/94	SIGNATURE: Federal Express		SIGNATURE:	
PRINTED NAME/COMPANY: Mike Whitehead / JN	TIME: 15:50	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE: Jerri Cooper	5/13/94	SIGNATURE: Jessica Morfore	5/16/94	SIGNATURE:	
PRINTED NAME/COMPANY: Terri Brown Core Lab	TIME: 15:30	PRINTED NAME/COMPANY: Jessica Morfore Lole	TIME: 1000	PRINTED NAME/COMPANY:	TIME

* RUSH TURNAROUND MAY REQUIRE SURCHARGE

008829

8829

[illegible], California, E. Gene Autry Way, California 92805, 09[illegible], 6[illegible]

[ ] Long Beach, California, 3700 Cherry Avenue, Long Beach, California 90807, (310) 595-8401, (800) 814-3433

[ ] Denver (Aurora), Colorado, 10703 E. Bethany Drive, Aurora, Colorado 80014, (303) 751-1780, (800) 972-2673

[ ] Casper, Wyoming, 420 West 1st Street, Casper, Wyoming 82601, (307) [illegible]-5741, ([illegible]) [illegible]603

[ ] Houston, Texas, 8210 Mosely Road, Houston, Texas 77075, (713) 943-9776, (800) 734-2673

008829

[ ] Corpus Christi, Texas, 1733 North Padre Island Drive, Corpus Christi, Texas 78408, (512) 289-2673, (800) 548-8228

[ ] Lake Charles, Louisiana, 3645 Beglis Parkway, Sulphur, Louisiana 70663, [illegible]583-4926, [illegible]259-4926

WESTERN ATLAS

CORE LABORATORIES

No. 0667

CHAIN OF CUSTODY RECORD (2)

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: RMT/JN - DALLAS	PROJECT NAME/NUMBER: DHA - RI
SEND REPORT TO: SAME	BILLING INFORMATION
ADDRESS:	BILL TO:
	ADDRESS: SAME
PHONE: (214) 490-8696	PHONE:
FAX:	FAX: PO NO.:

LAB JOB NO. 942184

SAMPLE NO.	SAMPLE ID	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE	PRES.	NUMBER OF CONTAINERS	TAL	TCL	TOTAL METALS, Pb, As, Cd						REMARKS / PRECAUTIONS
11	RI-SB-16-03-30 (15'-17')	5/13/94	11:10	soil	9 oz	none	1	✓								
12	RI-SB-16-04-31 (3'-5')	5/13/94	11:15	"	"	"	1	✓								
7 13	RI-SB-17-01-32 (12'-14')	5/13/94	2:00	"	"		2		✓							Hold for later analysis
8 14	RI-EB-01-33	5/13/94	2:25	WATER	250 mL	HNO3	2			✓						

SAMPLER: JM Wickery Charyle

SHIPMENT METHOD:

AIRBILL NO.:

REQUIRED TURNAROUND*: [ ] SAME DAY [ ] 24 HOURS [ ] 48 HOURS [ ] 72 HOURS [ ] 5 DAYS [ ] 10 DAYS [ ] ROUTINE [X] OTHER Call Ed York

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Michael Whitehead	5/13/94	SIGNATURE: Federal Express		SIGNATURE:	
PRINTED NAME/COMPANY: Michael Whitehead (JN)	TIME: 15:30	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE: Terri Brown	5/13/94	SIGNATURE: Jessica Monforte	5/16/94	SIGNATURE:	
PRINTED NAME/COMPANY: Terri Brown/Core Lab	TIME: 15:30	PRINTED NAME/COMPANY: Jessica Monforte Core	TIME: 1200	PRINTED NAME/COMPANY:	TIME

* RUSH TURNAROUND MAY REQUIRE SURCHARGE

008830

[ ] California, Gene Autry Way, California 92805

[ ] Long Beach, California, 3700 Cherry Avenue, Long Beach, California 90807, (310) 595-8401, (800) 814-3433

[ ] Denver (Aurora), Colorado, 10703 E. Bethany Drive, Aurora, Colorado 80014, (303) 751-1780, (800) 972-2673

[ ] Casper, Wyoming, 420 West 1st Street, Casper, Wyoming 82601, (307) [illegible]-5741, (8[illegible]-603

[ ] Houston, Texas, 8210 Mosely Road, Houston, Texas 77075, (713) 943-9776, (800) 734-2673

[ ] Corpus Christi, Texas, 1733 North Padre Island Drive, Corpus Christi, Texas 78408, (512) 289-2673, (800) 548-8228

[ ] Lake Charles, Louisiana, 3645 Beglis Parkway, Sulphur, Louisiana 70663, [illegible] 583-4926, 59-4926

008830

8830

[GC/MS LAB SEMIVOLATILES]

[INTERNAL STANDARD CHECK REPORT]

942184-01

SAMPLE FILE = >A4426
CAL CHECK FILE = >SK450
DATE AND TIME OF ANALYSIS = 5/27/94 14:37
MISCELLANEOUS = 05 25 94 SOLID 30.0g:1ml
METHOD = BNAMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER GRP

I. Areas

Name of the BNA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
1,4-Dichlorobenz-d4	22983	24118	12059	48236	OK
Naphthalene-d8	98078	102674	51337	205348	OK
Acenaphthene-d10	93422	97899	48950	195798	OK
Phenanthrene-d10	232663	244807	122403	489614	OK
Chrysene-d12	359172	364000	182000	728000	OK
Perylene-d12	459903	484426	242213	968852	OK

II. Retention Times

Name of the BNA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
1,4-Dichlorobenz-d4	8.12	8.14	7.64	8.64	OK
Naphthalene-d8	11.58	11.58	11.08	12.08	OK
Acenaphthene-d10	16.41	16.42	15.92	16.92	OK
Phenanthrene-d10	20.41	20.42	19.92	20.92	OK
Chrysene-d12	27.71	27.74	27.24	28.24	OK
Perylene-d12	31.37	31.40	30.90	31.90	OK

[GC/MS OPERATOR REPORT]

[GC/MS LAB VOLATILES]

942184-01

[INTERNAL STANDARD CHECK REPORT]

SAMPLE FILE = >B0861
CAL CHECK FILE = >BC068
DATE AND TIME OF ANALYSIS = 5/26/94 16:20
MISCELLANEOUS = (VTCL) 5.0g PURGE
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

I. Areas

Name of the VOA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
Bromochlorobenzene	18740	25235	12618	50470	OK
1,4-Difluorobenzene	74656	108922	54461	217844	OK
Chlorobenzene-d5	57438	84051	42025	168102	OK

II. Retention Times

Name of the VOA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
Bromochloromethane	8.16	8.16	7.66	8.66	OK
1,4-Difluorobenzene	10.40	10.38	9.88	10.88	OK
Chlorobenzene-d5	18.48	18.47	17.97	18.97	OK

[GC-MS LAB SEMIVOLATILES]

[INTERNAL STANDARD CHECK REPORT]

94 2184-02

SAMPLE FILE = >A4427
CAL CHECK FILE = >SK450
DATE AND TIME OF ANALYSIS = 5/27/94 15:21
MISCELLANEOUS = 05 25 94 SOLID 30.0g:1ml
METHOD = BNAMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER GRP

I. Areas

Name of the BNA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
1,4-Dichlorobenz-d4	23089	24118	12059	48236	OK
Naphthalene-d8	97365	102674	51337	205348	OK
Acenaphthene-d10	92185	97899	48950	195798	OK
Phenanthrene-d10	232254	244807	122403	489614	OK
Chrysene-d12	366510	364000	182000	728000	OK
Perylene-d12	475973	484426	242213	968852	OK

II. Retention Times

Name of the BNA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
1,4-Dichlorobenz-d4	8.12	8.14	7.64	8.64	OK
Naphthalene-d8	11.58	11.58	11.08	12.08	OK
Acenaphthene-d10	16.41	16.42	15.92	16.92	OK
Phenanthrene-d10	20.41	20.42	19.92	20.92	OK
Chrysene-d12	27.71	27.74	27.24	28.24	OK
Perylene-d12	31.37	31.40	30.90	31.90	OK

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[GC/MS OPERATOR REPORT]

[GC/MS LAB VOLATILES]

[INTERNAL STANDARD CHECK REPORT]

942184-02

SAMPLE FILE = >B0862
CAL CHECK FILE = >BC068
DATE AND TIME OF ANALYSIS = 5/26/94 16:59
MISCELLANEOUS = (VTCL) 5.0g PURGE
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

I. Areas

Name of the VOA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
Bromochlorobenzene	18295	25235	12618	50470	OK
1,4-Difluorobenzene	74657	108922	54461	217844	OK
Chlorobenzene-d5	57276	84051	42025	168102	OK

II. Retention Times

Name of the VOA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
Bromochloromethane	8.17	8.16	7.66	8.66	OK
1,4-Difluorobenzene	10.40	10.38	9.88	10.88	OK
Chlorobenzene-d5	18.47	18.47	17.97	18.97	OK

[GC/MS LAB SEMIVOLATILES]

[INTERNAL STANDARD CHECK REPORT]

942184-03

SAMPLE FILE = >A4426
CAL CHECK FILE = >SK451
DATE AND TIME OF ANALYSIS = 5/31/94 9:50
MISCELLANEOUS = 05 25 94 SOLID 30.1g:1ml
METHOD = BNAMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER GRP

I. Areas

Name of the BNA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
1,4-Dichlorobenz-d4	28664	26037	13018	52074	OK
Naphthalene-d8	120582	112796	56398	225592	OK
Acenaphthene-d10	113817	100100	50050	200200	OK
Phenanthrene-d10	277163	246670	123335	493340	OK
Chrysene-d12	432478	372333	186166	744666	OK
Perylene-d12	561709	537313	268656	1074626	OK

II. Retention Times

Name of the BNA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
1,4-Dichlorobenz-d4	8.14	8.14	7.64	8.64	OK
Naphthalene-d8	11.58	11.58	11.08	12.08	OK
Acenaphthene-d10	16.42	16.44	15.94	16.94	OK
Phenanthrene-d10	20.42	20.42	19.92	20.92	OK
Chrysene-d12	27.72	27.74	27.24	28.24	OK
Perylene-d12	31.39	31.40	30.90	31.90	OK

[GC/MS OPERATOR REPORT]

[GC/MS LAB VOLATILES]

942184-03

[INTERNAL STANDARD CHECK REPORT]

SAMPLE FILE = >B0863
CAL CHECK FILE = >BC068
DATE AND TIME OF ANALYSIS = 5/26/94 17:38
MISCELLANEOUS = (VTCL) 5.0g PURGE
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

I. Areas

Name of the VOA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
Bromochlorobenzene	24646	25235	12618	50470	OK
1,4-Difluorobenzene	97504	108922	54461	217844	OK
Chlorobenzene-d5	76038	84051	42025	168102	OK

II. Retention Times

Name of the VOA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
Bromochloromethane	8.15	8.16	7.66	8.66	OK
1,4-Difluorobenzene	10.38	10.38	9.88	10.88	OK
Chlorobenzene-d5	18.48	18.47	17.97	18.97	OK

[GC/MS OPERATOR REPORT]

[GC/MS LAB VOLATILES]

[INTERNAL STANDARD CHECK REPORT]

942184-04

SAMPLE FILE = >B0848
CAL CHECK FILE = >BC066
DATE AND TIME OF ANALYSIS = 5/25/94 16:35
MISCELLANEOUS = (VTCL) 5.0ml PURGE
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

I. Areas

Name of the VOA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
Bromochlorobenzene	29347	30149	15074	60298	OK
1,4-Difluorobenzene	116086	131013	65506	262026	OK
Chlorobenzene-d5	89480	101898	50949	203796	OK

II. Retention Times

Name of the VOA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
Bromochloromethane	8.16	8.13	7.63	8.63	OK
1,4-Difluorobenzene	10.39	10.36	9.86	10.86	OK
Chlorobenzene-d5	18.48	18.44	17.94	18.94	OK

[GC/MS OPERATOR REPORT]

[GC/MS LAB SEMIVOLATILES]

942184-5

[INTERNAL STANDARD CHECK REPORT]

SAMPLE FILE = >A4429
CAL CHECK FILE = >SK451
DATE AND TIME OF ANALYSIS = 5/31/94 10:35
MISCELLANEOUS = 05 25 94 SOLID 30.0g:1ml
METHOD = BNAMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER GRP

I. Areas

Name of the BNA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
1,4-Dichlorobenz-d4	27233	26037	13018	52074	OK
Naphthalene-d8	113621	112796	56398	225592	OK
Acenaphthene-d10	106273	100100	50050	200200	OK
Phenanthrene-d10	263781	246670	123335	493340	OK
Chrysene-d12	387847	372333	186166	744666	OK
Perylene-d12	494041	537313	268656	1074626	OK

II. Retention Times

Name of the BNA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
1,4-Dichlorobenz-d4	8.14	8.14	7.64	8.64	OK
Naphthalene-d8	11.60	11.58	11.08	12.08	OK
Acenaphthene-d10	16.44	16.44	15.94	16.94	OK
Phenanthrene-d10	20.42	20.42	19.92	20.92	OK
Chrysene-d12	27.73	27.74	27.24	28.24	OK
Perylene-d12	31.40	31.40	30.90	31.90	OK

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[GC/MS OPERATOR REPORT]

[GC/MS LAB VOLATILES]

942184-05 (re-analysis)

[INTERNAL STANDARD CHECK REPORT]

SAMPLE FILE = >B0889
CAL CHECK FILE = ~~>VK930~~ BC071
DATE AND TIME OF ANALYSIS = 6/01/94 20:15
MISCELLANEOUS = (VTCL) 5.0g Purge
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

I. Areas

Name of the VOA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
Bromochlorobenzene	28537	17630	8815	35260	OK
1,4-Difluorobenzene	113811	74154	37077	148308	OK
Chlorobenzene-d5	90533	59593	29796	119186	OK

II. Retention Times

Name of the VOA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
Bromochloromethane	8.36	8.31 ~~5.40~~	7.81 ~~4.90~~	8.81 ~~5.90~~	~~BAD~~ OK
1,4-Difluorobenzene	10.54	10.50 ~~7.56~~	10.00 ~~7.06~~	11.00 ~~8.06~~	~~BAD~~ OK
Chlorobenzene-d5	18.53	18.50 ~~13.32~~	18.00 ~~12.82~~	19.00 ~~13.82~~	~~BAD~~ OK

6-2-94

008839

8839

[GC/MS OPERATOR REPORT]

[GC/MS LAB VOLATILES]

[INTERNAL STANDARD CHECK REPORT]

942184-05

SAMPLE FILE = >B0864
CAL CHECK FILE = >BC068
DATE AND TIME OF ANALYSIS = 5/26/94 18:16
MISCELLANEOUS = (VTCL) 5.0g PURGE
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

I. Areas

Name of the VOA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
Bromochlorobenzene	1284	25235	12618	50470	BAD *
1,4-Difluorobenzene	7415	108922	54461	217844	BAD *
Chlorobenzene-d5	4527	84051	42025	168102	BAD *

II. Retention Times

Name of the VOA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
Bromochloromethane	8.13	8.16	7.66	8.66	OK
1,4-Difluorobenzene	10.41	10.38	9.88	10.88	OK
Chlorobenzene-d5	18.47	18.47	17.97	18.97	OK

* Soil matrix interfered with internal standards
See reanalysis (File >8085 ...

008840

8840

[GC/MS OPERATOR REPORT]

[GC/MS LAB SEMIVOLATILES]

[INTERNAL STANDARD CHECK REPORT]

942184-06

SAMPLE FILE = >A4430
CAL CHECK FILE = >SK451
DATE AND TIME OF ANALYSIS = 5/31/94 11:22
MISCELLANEOUS = 05 25 94 SOLID 30.0g:1ml
METHOD = BNAMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER GRP

I. Areas

Name of the BNA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
1,4-Dichlorobenz-d4	25389	26037	13018	52074	OK
Naphthalene-d8	106012	112796	56398	225592	OK
Acenaphthene-d10	98124	100100	50050	200200	OK
Phenanthrene-d10	250892	246670	123335	493340	OK
Chrysene-d12	345780	372333	186166	744666	OK
Perylene-d12	408543	537313	268656	1074626	OK

II. Retention Times

Name of the BNA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
1,4-Dichlorobenz-d4	8.12	8.14	7.64	8.64	OK
Naphthalene-d8	11.58	11.58	11.08	12.08	OK
Acenaphthene-d10	16.42	16.44	15.94	16.94	OK
Phenanthrene-d10	20.42	20.42	19.92	20.92	OK
Chrysene-d12	27.73	27.74	27.24	28.24	OK
Perylene-d12	31.40	31.40	30.90	31.90	OK

[GC/MS OPERATOR REPORT]

[GC/MS LAB VOLATILES]

[INTERNAL STANDARD CHECK REPORT]

942184-06
reanalysis

SAMPLE FILE = >B0890
CAL CHECK FILE = ~~>VK930~~ BC071
DATE AND TIME OF ANALYSIS = 6/0~~1/94 20:53~~ 6-2-94
MISCELLANEOUS = (VTCL) 5.0g Purge
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

I. Areas

Name of the VOA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
Bromochlorobenzene	26263	17630	8815	35260	OK
1,4-Difluorobenzene	98696	74154	37077	148308	OK
Chlorobenzene-d5	65975	59593	29796	119186	OK

II. Retention Times

Name of the VOA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
Bromochloromethane	8.37	8.31 ~~5.40~~	7.81 ~~4.90~~	8.81 ~~5.90~~	~~BAD~~ OK
1,4-Difluorobenzene	10.55	10.50 ~~7.56~~	10.00 ~~7.06~~	11.00 ~~8.06~~	~~BAD~~ OK
Chlorobenzene-d5	18.52	18.50 ~~13.32~~	18.00 ~~12.82~~	19.00 ~~13.82~~	~~BAD~~ OK

6-2-94

008842

8842

[GC/MS OPERATOR REPORT]

[GC/MS LAB VOLATILES]

942184-06

[INTERNAL STANDARD CHECK REPORT]

SAMPLE FILE = >B0865
CAL CHECK FILE = >BC068
DATE AND TIME OF ANALYSIS = 5/26/94 18:54
MISCELLANEOUS = (VTCL) 5.0g PURGE
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

I. Areas

Name of the VOA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
Bromochlorobenzene	19028	25235	12618	50470	OK
1,4-Difluorobenzene	51528	108922	54461	217844	BAD *
Chlorobenzene-d5	28526	84051	42025	168102	BAD *

I.. Retention Times

Name of the VOA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
Bromochloromethane	8.18	8.16	7.66	8.66	OK
1,4-Difluorobenzene	10.43	10.38	9.88	10.88	OK
Chlorobenzene-d5	18.54	18.47	17.97	18.97	OK

* soil matrix interfered with internal standard
see reanalysis (file >B089

008843

8843

GC/MS PERFORMANCE STANDARD

Decafluorotriphenylphospine (DFTPP)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
51	30-60% of mass 198	55.41	55.41	Ok
68	Less than 2% of mass 69	0.00	0.00	Ok
69	(reference only)	68.68	68.68	Ok
70	Less than 2% of mass 69	.68	.99	Ok
127	40-60% of mass 198	44.47	44.47	Ok
197	Less than 1% of mass 198	0.00	0.00	Ok
198	Base peak, 100% relative abundance	100.00	100.00	Ok
199	5-9% of mass 198	6.93	6.93	Ok
275	10-30% of mass 198	22.19	22.19	Ok
365	Greater than 1% of mass 198	3.57	[illegible]	Ok
441	0-100% of mass 443	10.40	80.94	Ok
442	Greater than 40% of mass 198	74.24	74.24	Ok
443	17-23% of mass 442	12.85	17.31	Ok

Injection Date: 05/27/94
Injection Time: 09:59
Data File: >SD696
Scan: 35

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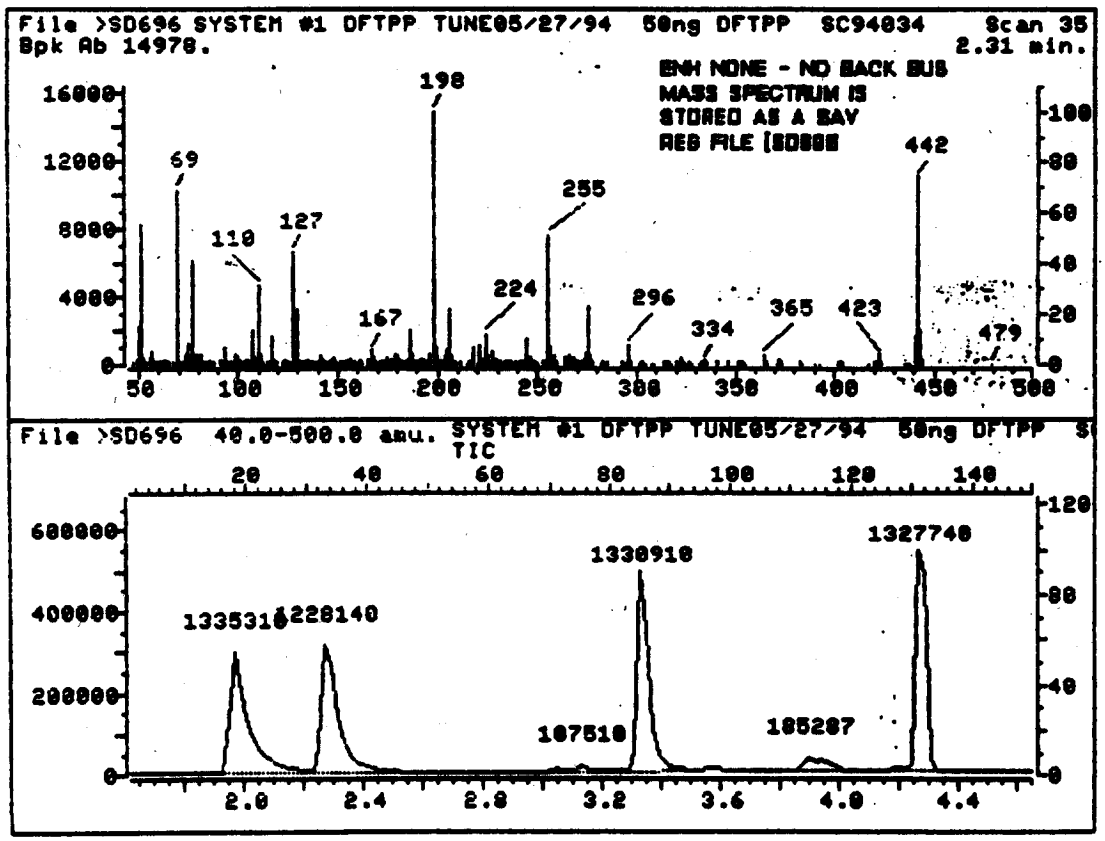

008844

8844

LZB 05-27-94

>SD696 SYSTEM #1 DFTPP TUNE05/27/94 50ng DFTPP SC940546
35 NRM

File: >SD696 Scan #: 35 Retn. time: 2.31

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m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
40.95	1.262	101.90	.454	162.00	.334	228.00	1.309	302.05	.260
41.85	.327	103.05	.928	165.10	1.843	229.05	1.289	303.05	.561
42.95	1.789	104.05	1.128	166.05	.734	229.85	.681	303.95	.134
43.95	7.965	105.05	1.135	167.05	5.568	231.05	.407	308.10	.134
44.95	.614	105.95	.521	168.05	2.096	231.95	.320	308.70	.174
46.85	.414	106.95	12.939	169.05	.527	234.05	.628	314.10	.254
48.95	1.248	108.05	1.936	171.05	.240	235.05	.527	314.90	.935
49.95	14.635	109.05	.728	172.05	.574	235.95	.327	316.00	.441
50.95	55.408	110.05	31.253	173.15	.641	237.15	.441	317.00	.147
51.95	2.424	111.05	4.260	174.05	1.028	238.35	.134	321.00	.221
52.95	.487	112.05	.808	175.05	1.903	239.05	.401	322.00	.127
55.05	.928	114.95	.407	176.05	.734	240.05	.214	323.05	1.928
55.90	2.143	115.95	.841	177.05	1.182	240.95	.354	324.05	.401
56.90	4.567	117.05	10.335	178.15	.387	242.05	.728	324.75	.087
58.10	.287	118.05	1.122	179.05	4.039	243.15	.821	325.05	.107
59.00	.354	119.00	.287	180.05	2.831	244.00	9.908	326.85	.554
59.90	.461	122.00	.815	181.05	1.289	245.10	1.228	328.05	.167
60.90	.768	123.00	1.455	183.00	.274	246.00	2.143	331.85	.160
61.90	.821	124.00	.788	184.00	.274	247.10	.507	332.45	.120
63.00	1.809	125.10	.688	185.00	1.696	248.00	.127	333.05	.320
64.10	.361	127.00	44.465	186.10	12.999	249.00	.381	334.05	1.342
65.00	.915	128.10	3.432	187.10	3.806	249.80	.194	335.05	.314
7.10	.354	129.00	21.779	188.10	.414	253.10	.347	340.90	.274
9.00	68.681	130.00	2.030	189.10	.801	255.10	50.881	346.00	.461
70.10	.681	131.10	.688	191.10	.461	256.00	6.703	352.00	.581
70.90	.474	132.00	.808	192.00	1.142	257.00	.641	353.00	.441
71.95	.207	133.10	.494	193.10	1.175	258.10	3.058	353.95	.608
72.95	.868	134.10	.835	194.10	.314	259.10	.421	354.75	.154
73.95	4.066	135.05	1.556	195.00	.227	263.85	2.096	364.85	3.372
74.95	7.778	135.95	.554	196.10	3.752	265.05	1.582	365.95	.427
76.05	2.150	136.95	.581	198.05	100.000	265.85	3.225	370.90	.160
76.95	40.947	138.05	.227	198.95	6.930	266.85	.280	371.90	1.322
78.05	2.677	139.15	.167	200.05	.875	267.95	1.929	373.00	.280
78.95	3.632	140.15	.361	201.75	.921	268.95	.220	383.00	.421
80.05	2.076	141.05	2.904	202.95	1.015	269.85	.728	383.80	.147
80.95	3.659	142.05	1.108	204.05	3.512	271.05	.194	390.05	.207
82.05	.714	142.95	.661	205.05	5.548	271.85	.220	391.95	.073
82.95	1.021	145.15	.207	206.05	21.558	273.05	1.682	401.90	.527
84.05	.634	146.05	.481	207.05	3.051	274.05	3.652	402.70	.501
85.05	.728	147.05	1.369	208.05	.821	275.05	22.186	402.90	.487
85.95	1.302	148.05	2.544	209.15	.387	276.00	2.831	403.80	.260
87.00	.921	149.05	.634	211.15	1.035	277.00	2.203	416.95	.087
87.90	.247	149.80	.140	214.20	.080	277.90	.347	420.75	.467
91.00	1.168	151.00	.434	215.00	.280	281.90	.093	421.85	.501
92.00	.908	151.70	.240	216.10	.340	283.00	.260	422.85	3.712
93.00	6.249	152.10	.234	217.00	6.142	284.00	.167	423.85	.815
94.00	.387	153.00	.975	218.00	.855	285.20	.434	435.30	.073
95.00	.688	154.00	.608	220.00	.187	293.05	.347	437.30	.087
6.00	.554	155.00	1.415	221.10	7.144	293.85	.093	437.70	.073
97.00	.581	156.10	1.990	223.00	1.562	294.05	.093	440.80	10.402

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.402
100.00	1.6[illegible]	151.10	1.148	227.10	5.061 301.05	.087 479.10	.080

Instrument ID: SV-MS1 Analyzed on: 5/27/94 9:59

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ORIGINAL

008846

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GC/MS PERFORMANCE STANDARD

Decafluorotriphenylphospine (DFTPP)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	Appropriate Peak	Status
51	30-60% of mass 198	49.72	49.72	Ok
68	Less than 2% of mass 69	0.00	0.00	Ok
69	(reference only)	59.18	59.18	Ok
70	Less than 2% of mass 69	.25	.43	Ok
127	40-60% of mass 198	40.21	40.21	Ok
197	Less than 1% of mass 198	0.00	0.00	Ok
198	Base peak, 100% relative abundance	100.00	100.00	Ok
199	5-9% of mass 198	6.82	6.82	Ok
275	10-30% of mass 198	24.23	24.23	Ok
365	Greater than 1% of mass 198	3.53	3.53	Ok
441	0-100% of mass 443	11.73	84.80	Ok
442	Greater than 40% of mass 198	80.61	80.61	Ok
443	17-23% of mass 442	13.83	17.16	Ok

Injection Date: 05/31/94
Injection Time: 08:31
Data File: >SD697
Scan: 34

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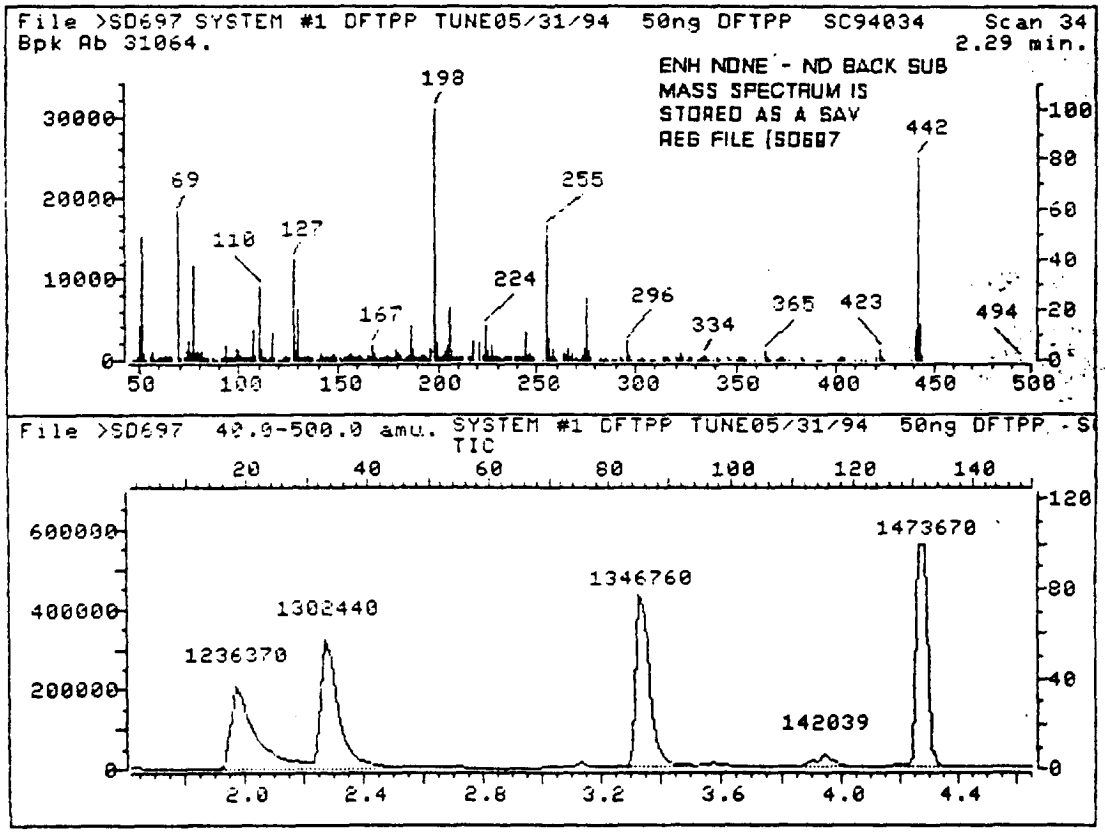

LLB 5-31-94

008847

8847

File: SD697 Scan #: 34 Retn. time: 2.29

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m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
40.95	.274	109.95	29.568	173.05	.444	239.05	.344	321.00	.280
43.95	.766	111.05	3.831	173.95	.950	240.15	.241	321.90	.100
47.05	.200	111.95	.483	175.05	1.416	241.05	.332	322.95	2.456
47.85	.167	113.05	.225	176.05	.837	242.05	.808	323.95	.373
49.05	.753	114.95	.216	177.05	1.030	243.15	.660	325.85	.064
49.95	13.015	116.05	.724	178.05	.344	244.10	10.855	326.05	.061
50.95	49.723	117.05	10.340	179.05	3.805	245.00	1.381	326.95	.502
51.95	2.273	117.95	.692	180.05	2.472	246.00	2.189	327.95	.287
52.95	.167	120.00	.142	181.15	1.127	247.00	.377	330.95	.039
55.05	.377	120.90	.097	182.00	.148	248.00	.119	332.05	.148
55.90	1.639	121.90	.824	183.10	.113	249.00	.383	332.95	.238
56.90	3.570	123.00	1.323	184.10	.274	253.00	.174	333.95	1.548
58.00	.167	124.00	.679	185.10	1.658	255.10	53.258	335.05	.402
59.00	.187	125.00	.592	186.10	13.218	256.10	7.961	336.05	.068
59.90	.309	127.00	40.207	187.10	3.576	257.10	.586	338.80	.061
61.00	.737	128.10	2.881	188.00	.283	258.10	3.605	340.90	.285
62.00	.744	129.00	19.956	189.10	.708	259.10	.512	342.00	.113
63.00	1.664	130.00	2.083	190.10	.206	260.85	.093	346.00	.573
64.00	.280	131.00	.447	191.10	.377	263.85	2.263	347.00	.138
65.00	1.111	132.00	.522	192.10	1.175	264.95	1.494	350.00	.052
65.90	.229	132.90	.538	193.10	1.214	265.85	3.763	350.70	.048
69.00	59.181	134.00	.760	194.10	.332	266.85	.264	350.90	.048
70.00	.254	135.05	1.471	195.00	.177	267.85	2.447	351.90	.885
1.00	.290	136.05	.576	196.10	3.686	268.95	.216	353.00	.415
72.95	.522	137.05	.692	197.95	100.000	269.85	.647	353.95	.695
73.95	3.467	138.85	.087	198.95	6.821	270.95	.174	354.95	.097
74.95	6.944	140.05	.209	199.95	1.017	271.95	.196	359.05	.097
76.05	2.125	140.95	2.421	200.95	.457	273.05	1.613	364.85	3.531
77.05	37.262	142.05	.843	201.75	.991	274.05	4.262	365.95	.509
77.95	2.469	143.05	.586	202.95	1.127	275.05	24.227	366.75	.061
78.95	3.216	143.95	.155	204.05	3.435	276.00	3.100	369.65	.068
79.95	2.112	144.95	.219	205.05	5.785	277.00	2.373	369.90	.061
80.95	3.161	146.05	.425	206.05	20.976	278.00	.367	370.90	.216
82.05	.795	147.05	1.130	207.05	3.119	281.80	.064	371.90	1.017
83.05	.814	148.05	2.495	208.05	.850	283.00	.283	372.90	.270
83.95	.212	149.15	.483	209.05	.264	284.00	.126	373.80	.061
84.95	.657	151.00	.325	210.15	.499	285.10	.312	376.40	.045
86.05	.882	151.50	.212	211.05	.995	286.00	.052	382.80	.280
87.00	.615	151.80	.209	211.75	.315	288.00	.048	383.80	.129
87.70	.106	153.00	.802	215.00	.293	289.00	.068	389.95	.151
88.90	.183	154.00	.560	216.00	.525	289.90	.077	390.75	.126
90.90	.837	155.00	1.275	217.00	6.937	292.05	.113	391.95	.090
92.00	.808	156.00	1.983	218.00	.740	292.95	.476	400.75	.071
93.00	5.405	157.10	.493	221.10	6.866	293.95	.126	401.70	.435
93.90	.328	158.10	.409	223.00	1.358	294.15	.119	402.90	.737
94.90	.666	159.10	.251	224.10	13.475	295.95	7.066	403.80	.238
95.90	.373	160.00	.689	225.10	3.332	296.95	1.156	409.80	.048
97.00	.386	161.10	1.107	226.10	.335	297.95	.087	412.50	.035
3.00	4.040	162.00	.296	227.10	5.949	301.05	.116	414.50	.032
9.00	3.065	163.00	.084	228.00	1.037	302.05	.142	420.75	.528

008848

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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
102.95	.647	167.05	5.717	231.95	.245	308.90	.125	438.70	.045		
103.95	.959	168.05	1.983	232.85	.183	310.00	.119	440.80	11.727		
104.95	.895	168.95	.692	234.05	.444	314.00	.370	441.80	80.608		
106.15	.663	169.95	.180	235.05	.425	315.00	.905	442.80	13.829		
7.05	11.544	171.05	.280	236.05	.309	316.00	.393	443.80	1.284		
108.05	1.767	171.95	.470	237.05	.550	316.80	.052	494.25	.058		

Instrument ID: SV-MS1 Analyzed on: 5/31/94 8:31

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ORIGINAL

DATE AND TIME OF ANALYSIS = 5/27/94 10:18
SAMPLE = Sys.#1 Calib. Check
MISCELLANEOUS = 05 27 94 50ug/L 8270/625 Cmpds. SC930281
METHOD = BNAMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER GRP

COPIED FROM POOR QUALITY ORIGINAL

CCC COMPOUND	DAILY CAL RF	5-POINT AVE RF	%D
Pentachlorophenol	.2592	.2995	13.44
1,4-Dichlorobenzene	1.4539	1.4372	1.16
2-Nitrophenol	.2144	.2067	3.71
2,4-Dichlorophenol	.3873	.3751	[illegible]
Hexachlorobutadiene	.3885	.3890	.13
4-Chloro-3-methylphenol	.4069	.3582	13.60
2,4,6-Trichlorophenol	.4560	.4695	2.88
Acenaphthene	1.1520	1.1138	3.43
N-Nitrosodiphenylamine	.3901	.3310	17.86
Fluoranthene	1.4451	1.4789	2.29
Di-n-octylphthalate	1.1153	.9186	21.41
Benzo(a)pyrene	1.0570	.8862	19.27
Phenol	1.1677	1.1548	1.12

SPCC COMPOUND	DAILY RF
N-Nitroso-di-n-propylamine	.9993
Hexachlorocyclopentadiene	.5050
2,4-Dinitrophenol	.2631
4-Nitrophenol	.2303

DAILY CALIBRATION FOR BNA'S PASSED ALL CCC AND SPCC CRITERIA

E RF AND RT VALUES WILL AUTOMATICALLY BE UPDATED IN YOUR IDFILE

05-27-94
LLB

008850

DATA FILE NAME = SK450::D1
DATE AND TIME OF ANALYSIS = 5/27/94 10:18
SAMPLE = Sys.#1 Calib. Check
MISCELLANEOUS = 05 27 94 50ug/L 8270/625 Cmpds. SC930281
METHOD = BNAMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER GRP

COPIED FROM POOR QUALITY ORIGINAL

Compound Name	Retention Times: RRT FOUND	RRT IN THE IDFILE	RT DIFF-ERENCE	Response factors: RF FOUND	AVE. RF FROM 5-POINT	RATIO RF FOUND TO RF IN IDFILE
Pyridine	.22833	.22834	-.0001	.90883	.7856	.98183
n-Nitrosodimethylamine	.23334	.23335	-.0001	.50910	.4683	[illegible]
Aniline	.91975	.91974	.00010	1.2984	1.2841	.97494
bis(2-Chloroethyl)ether	.91975	.91974	.00010	1.2984	1.2798	.97512
1,3-Dichlorobenzene	.98244	.98244	.00005	1.4165	1.4034	.94136
Benzyl alcohol	1.0852	1.0652	.16327	.63388	.5551	71.106
1,2-Dichlorobenzene	1.0626	1.0652	-.0203	1.4901	1.4664	.96935
2-Methylphenol	1.1504	1.1529	-.0202	1.0802	1.0267	.83069
bis(2-Chloroisopropyl)ether	1.1303	1.1303	.00025	2.5903	2.6962	.99019
4-Methylphenol	1.2005	1.2030	-.0203	1.0494	1.0770	.88462
Hexachloroethane	1.1604	1.1604	.00025	.78537	.7670	1.0130
Nitrobenzene	.85035	.85034	.00013	.47014	.3531	.97917
Isophorone	.90842	.90842	.00010	.61524	.6456	1.0039
[illegible]itrophenol	.92427	.92426	.00012	.21436	.2067	1.0382
[illegible]-Dimethylphenol	.96123	.96122	.00019	.25943	.2519	.97539
Benzoic acid	1.0194	1.0194	.00010	.29187	.2580	1.0708
bis(2-Chloroethoxy)methane	.97532	.97532	.00007	.41692	.4135	1.0501
2,4-Dichlorophenol	.98589	.98589	.00008	.38729	.3751	1.0359
Naphthalene	1.0053	1.0053	.00008	.94814	.9296	1.0350
4-Chloroaniline	1.0405	1.0405	.00010	.42547	.3600	1.0766
Hexachlorobutadiene	1.0546	1.0546	.00013	.38849	.3890	1.0434
2-Methylnaphthalene	1.1708	1.1690	.02022	.83771	1.0273	1.1476
1-Methylnaphthalene	1.1937	1.1937	-.0002	.77542	.7286	1.0859
Hexachlorocyclopentadiene	.86455	.86455	-.0002	.50495	.4915	1.1807
2,4,6-Trichlorophenol	.88567	.88567	-.0001	.45599	.4695	.97685
2,4,5-Trichlorophenol	.89314	.89313	-.0001	.52633	.4911	.97865
2-Chloronaphthalene	.90559	.90559	-.0002	1.0707	1.0541	.99838
2-Nitroaniline	.94036	.94036	-.0001	.40856	.3868	.98577
Dimethylphthalate	.98135	.98135	-.0001	1.4771	1.4332	.96984
Acenaphthylene	.97389	.97389	-.0001	1.8143	1.7238	1.0105
2,6-Dinitrotoluene	.99006	.99005	-.0001	.36259	.3337	1.0184
3-Nitroaniline	1.0124	1.0112	.02025	.34413	.2798	1.0478
2,4-Dinitrophenol	1.0273	1.0273	-.0001	.26314	.2086	1.3104
Dibenzofuran	1.0336	1.0323	.02035	1.8097	1.7128	1.0108
Diethylphthalate	1.1007	1.1007	.00002	1.8979	1.7321	1.0270
4-Chlorophenyl-phenylether	1.0982	1.0982	-.0000	.79750	.7950	.96963
Fluorene	1.0907	1.0895	.02040	1.4717	1.3320	1.0421
4-Nitroaniline	1.1169	1.1156	.02047	.42360	.3640	1.0256
4 6-Dinitro-2-methylphenol	.90005	.90001	.00003	.16038	.1450	1.0861
[illegible]itrosodiphenylamine	.90305	.90302	-.0001	.39011	.3310	1.0305

DATA FILE NAME = SK450::D1
DATE AND TIME OF ANALYSIS = 5/27/94 10:18
SAMPLE = Sys.#1 Calib. Check
MISCELLANEOUS = 05 27 94 50ug/L 8270/625 Cmpds SC930281
METHOD = BNAMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER GRP

COPIED FROM POOR QUALITY ORIGINAL

Compound Name	Retention Times: RRT FOUND	RRT IN THE IDFILE	RT DIFF-ERENCE	Response Factors: RF FOUND	AVE. RF FROM 5-POINT	RATIO RF FOUND TO RF IN IDFILE
Azobenzene (1,2-D.P.H)	.90305	.90302	-.0001	.72883	.6811	1.0254
4-Bromophenyl-phenylether	.94703	.94602	.01987	.26919	.2894	.98078
Hexachlorobenzene	.96003	.96002	-.0007	.42119	.5034	.94218
Phenanthrene	1.0030	1.0030	-.0009	1.0674	1.0494	.98566
Anthracene	1.0090	1.0090	-.0009	1.0818	1.0195	.95675
Carbazole	1.0390	1.0390	-.0010	1.0697	.9455	.99997
Di-n-butylphthalate	1.1039	1.1039	-.0015	1.7325	1.5224	.94899
Fluoranthene	1.1628	1.1629	-.0032	1.4451	1.4789	.90336
Benzidine	.87868	.87836	.01665	.17495	.1633	.80984
Butylbenzylphthalate	.95882	.95942	-.0082	.65396	.5134	1.0247
3,3'-Dichlorobenzidine	1.0044	1.0037	.02922	.44079	.3223	.96131
Benzo(a)anthracene	.99778	.99778	.00887	1.1721	1.0785	1.0297
bis(2-Ethylhexyl)phthalate	1.0206	1.0207	.00765	1.0002	.7860	1.0105
-n-octylphthalate	.95314	.95362	.00293	1.1153	.9186	1.0957
zo(b)fluoranthene	.97135	.97124	.02167	1.0467	1.0595	.85050
Benzo(k)fluoranthene	.97135	.97386	-.0605	1.0467	.8219	1.1932
Benzo(a)pyrene	.99543	.99542	.01917	1.0570	.8862	1.0302
Indeno(1,2,3-cd)pyrene	1.0749	1.0746	.02914	1.3094	1.1044	1.0953
Dibenz(a,h)anthracene	1.0769	1.0766	.02905	.99672	.7700	1.0188
Benzo(g,h,i)perylene	1.0938	1.0943	.00710	1.1474	.9707	1.1064
Phenol	.96489	.96489	.00008	1.1677	1.1548	.91430
2-Chlorophenol	.94982	.94982	.00008	1.0720	1.0566	.94423
1,4-Dichlorobenzene	1.0050	1.0050	.00005	1.4539	1.4372	.95094
N-Nitroso-di-n-propylamine	1.1830	1.1830	.00013	.99925	1.0073	.98955
1,2,4-Trichlorobenzene	.99471	.99471	.00007	.46418	.4624	1.0098
4-Chloro-3-methylphenol	1.1761	1.1778	-.0206	.40691	.3582	1.0246
Acenaphthene	1.0062	1.0050	.02025	1.1520	1.1138	.98124
4-Nitrophenol	1.0597	1.0597	-.0002	.23025	.2233	.96590
2,4-Dinitrotoluene	1.0535	1.0522	.02020	.56224	.5273	.99166
Pentachlorophenol	.98999	.98999	-.0008	.25925	.2995	.93220
Pyrene	.87721	.87688	.01674	1.0761	.8979	1.0607
2-Fluorophenol (SURR)	.60661	.60658	.00028	.64444	.6642	.94776
Phenol-d5 (SURR)	.95987	.96238	-.0204	1.0292	1.0192	.96209
Nitrobenzene-d5 (SURR)	.84682	.84681	.00013	.30818	.3262	1.0387
2-Fluorobiphenyl (SURR)	.89688	.89688	-.0001	1.0702	1.0843	1.0261
2,4,6-Tribromophenol (SURR)	.91406	.91404	-.0002	.24276	.3232	.93222
Terphenyl-d14 (SURR)	.90149	.90120	.01572	.77834	.7803	1.0055

DATA FILE NAME = SK451:22
DATE AND TIME OF ANALYSIS = 5/31/94 8:59
SAMPLE = Sys #1 Calib Check
MISCELLANEOUS = 05 31 94 50ug/L 8270/625 Cmpds. SC930281
METHOD = BNAMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER GRP

CCC COMPOUND	DAILY CAL RF	5-POINT AVE RF	%D
Pe[illegible]henol	.2640	.2995	11.86
1,4-Dichlorobenzene	1.4238	1.4372	.93
2-Nitrophenol	.2101	.2067	1.63
2,4-Dichlorophenol	.3730	.3751	.56
Hexachlorobutadiene	.3680	.3890	5.39
4-Chloro-3-methylphenol	.3830	.3582	6.91
2,4,6-Trichlorophenol	.4472	.4695	4.74
Acenaphthene	1.1698	1.1138	5.03
N-Nitrosodiphenylamine	.3843	.3310	16.11
Fluoranthene	1.5212	1.4789	2.86
Di-n-octylphthalate	1.1605	.9186	26.33
Benzo(a)pyrene	.9974	.8862	12.55
Phenol	1.1118	1.1548	3.72

SPCC COMPOUND	DAILY RF
N-Nitroso-di-n-propylamine	.9658
Hexachlorocyclopentadiene	.5359
2,4-Dinitrophenol	.2230
4-Nitrophenol	.2262

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DAILY CALIBRATION FOR BNA'S PASSED ALL CCC AND SPCC CRITERIA

THE RF AND RT VALUES WILL AUTOMATICALLY BE UPDATED IN YOUR IDFILE

5-31-94
LR

008853

8853

DATA FILE NAME = SK451::D2
DATE AND TIME OF ANALYSIS = 5/31/94 8:59
SAMPLE = Sys.#1 Calit. Check
MISCELLANEOUS = 05 31 94 50ug/L 8270/625 Cmpds. SC930281
METHOD = BNAMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER GRP

Compound Name	Retention Times: RRT FOUND	RRT IN THE IDFILE	RT DIFF-ERENCE	Response factors: RF FOUND	AVE. RF FROM 5-POINT	RATIO RF FOUND TO RF IN IDFILE
Azobenzene (1,2-D.P.H)	.90303	.90302	.00017	.73676	.6811	1.0355
4-Bromophenyl-phenylether	.94703	.94602	.02035	.26795	.2894	.9781
Hexachlorobenzene	.96002	.96002	-.0002	.43845	.5034	.98077
Phenanthrene	1.0030	1.0030	-.0001	1.1004	1.0494	1.0161
Anthracene	1.0090	1.0090	-.0001	1.0989	1.0195	.97187
Carbazole	1.0390	1.0390	-.0001	1.0812	.9455	1.0107
Di-n-butylphthalate	1.1039	1.1039	-.0006	1.7364	1.5224	.95169
Fluoranthene	1.1628	1.1629	-.0024	1.5212	1.4789	.95091
Benzidine	.87869	.87836	.01750	.20877	.1633	.96640
Butylbenzylphthalate	.95882	.95942	-.0073	.66125	.5134	1.0361
3,3'-Dichlorobenzidine	1.0044	1.0037	.02995	.45384	.3223	.98977
Benzo(a)anthracene	.99778	.99778	.00962	1.2029	1.0785	1.0568
bis(2-Ethylhexyl)phthalate	1.0206	1.0207	.00838	1.0187	.7860	1.0291
-n-octylphthalate	.95315	.95362	.00330	1.1605	.9186	1.1400
enzo(b)fluoranthene	.97136	.97124	.02193	1.0580	1.0595	.85967
Benzo(k)fluoranthene	.97136	.97386	-.0602	1.0580	.8219	1.2061
Benzo(a)pyrene	.99543	.99542	.01922	.99739	.8862	.97214
Indeno(1,2,3-cd)pyrene	1.0749	1.0746	.02795	1.2521	1.1044	1.0474
Dibenz(a,h)anthracene	1.0768	1.0766	.02782	.95773	.7700	.97895
Benzo(g,h,i)perylene	1.0938	1.0943	.00555	1.0644	.9707	1.0263
Phenol	.96237	.96489	-.0207	1.1118	1.1548	.87049
2-Chlorophenol	.94982	.94982	-.0002	1.0436	1.0566	.91924
1,4-Dichlorobenzene	1.0050	1.0050	-.0002	1.4238	1.4372	.93126
N-Nitroso-di-n-propylamine	1.1830	1.1830	-.0003	.96576	1.0073	.95638
1,2,4-Trichlorobenzene	.99470	.99471	.00000	.46161	.4624	1.0042
4-Chloro-3-methylphenol	1.1760	1.1778	-.0207	.38296	.3582	.96428
Acenaphthene	1.0050	1.0050	.02032	1.1698	1.1138	.99646
4-Nitrophenol	1.0596	1.0597	.02032	.22619	.2233	.94889
2,4-Dinitrotoluene	1.0521	1.0522	.02032	.55114	.5273	.97209
Pentachlorophenol	.98998	.98999	-.0003	.26399	.2995	.94925
Pyrene	.87722	.87688	.01757	1.0713	.8979	1.0560
2-Fluorophenol (SURR)	.60662	.60658	.00015	.61612	.6642	.90612
Phenol-d5 (SURR)	.95986	.96238	-.0207	1.0174	1.0192	.95106
Nitrobenzene-d5 (SURR)	.84679	.84681	-.0003	.29758	.3262	1.0030
2-Fluorobiphenyl (SURR)	.89576	.89688	-.0001	1.0752	1.0843	1.0310
2,4,6-Tribromophenol (SURR)	.91404	.91404	.00002	.23974	.3232	.92060
Terphenyl-d14 (SURR)	.90149	.90120	.01660	.77987	.7803	1.0075

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DATA FILE NAME = SK481:07
DATE AND TIME OF ANALYSIS = 5/31/94 8:59
SAMPLE = Sys.#1 Calib. Check
MISCELLANEOUS = 05 31 94 50ug/L 8270/625 Cmpds. SC930281
METHOD = BNAMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER CRP

Compound Name	Retention Times: RRT FOUND	RRT IN THE IDFILE	RT DIFF-ERENCE	Response factors: RF FOUND	AVE. RF FROM 5-POINT	RATIO RF FOUND TO RF IN IDFILE
Pyridine	.22836	.22834	.00010	.64908	.7856	.70121
n-Nitrosodimethylamine	.23086	.23335	-.0203	.40210	.4683	.88273
Aniline	.91974	.91974	-.0002	1.2214	1.2841	.91781
bis(2-Chloroethyl)ether	.95233	.91974	.26490	.79051	1.2798	.59368
1,3-Dichlorobenzene	.98244	.98244	-.0003	1.4030	1.4034	.93240
Benzyl alcohol	1.0902	1.0652	.20362	.04661	.5551	5.2286
1,2-Dichlorobenzene	1.0652	1.0652	-.0003	1.5027	1.4664	.97750
2-Methylphenol	1.1504	1.1529	-.0207	1.0162	1.0267	.78152
bis(2-Chloroisopropyl)ether	1.1328	1.1303	.02017	2.5433	2.6962	.97222
4-Methylphenol	1.2005	1.2030	-.0207	1.1796	1.0770	.99439
Hexachloroethane	1.1604	1.1604	-.0002	.74227	.7670	.95740
Nitrobenzene	.85032	.85034	-.0003	.46330	.3531	.96493
Isophorone	.90840	.90842	-.0002	.58926	.6456	.96150
Nitrophenol	.92425	.92426	-.0002	.21007	.2067	1.0174
,4-Dimethylphenol	.96121	.96122	-.0001	.26041	.2519	.97909
Benzoic acid	1.0176	1.0194	-.0203	.25390	.2580	.93153
bis(2-Chloroethoxy)methane	.97531	.97532	-.0001	.38768	.4135	.97648
2,4-Dichlorophenol	.98588	.98589	-.0001	.37301	.3751	.99773
Naphthalene	1.0053	1.0053	.00005	.91401	.9296	.99770
4-Chloroaniline	1.0423	1.0405	.02052	.38394	.3600	.97152
Hexachlorobutadiene	1.0546	1.0546	.00015	.36805	.3890	.98853
2-Methylnaphthalene	1.1708	1.1690	.02015	.77320	1.0273	1.0592
1-Methylnaphthalene	1.1937	1.1937	-.0002	.73394	.7286	1.0279
Hexachlorocyclopentadiene	.86347	.86455	-.0002	.53587	.4915	1.2530
2,4,6-Trichlorophenol	.88456	.88567	-.0002	.44724	.4695	.95811
2,4,5-Trichlorophenol	.89202	.89313	-.0001	.53625	.4911	.99710
2-Chloronaphthalene	.90447	.90559	-.0002	1.1026	1.0541	1.0281
2-Nitroaniline	.93919	.94036	-.0001	.42287	.3868	1.0203
Dimethylphthalate	.98013	.98135	-.0001	1.4855	1.4332	.97535
Acenaphthylene	.97268	.97389	-.0000	1.8200	1.7238	1.0137
2,6-Dinitrotoluene	.98882	.99005	-.0000	.36096	.3337	1.0138
3-Nitroaniline	1.0112	1.0112	.02030	.33049	.2798	1.0063
2,4-Dinitrophenol	1.0273	1.0273	.02039	.22299	.2086	1.1104
Dibenzofuran	1.0323	1.0323	.02043	1.8140	1.7128	1.0132
Diethylphthalate	1.0993	1.1007	.00020	1.7532	1.7321	.94868
4-Chlorophenyl-phenylether	1.0968	1.0982	.00018	.79142	.7950	.96225
Fluorene	1.0894	1.0895	.02060	1.4240	1.3320	1.0083
4-Nitroaniline	1.1142	1.1156	.00023	.41511	.3640	1.0051
6-Dinitro-2-methylphenol	.90002	.90001	.00024	.15830	.1450	1.0720
Nitrosodiphenylamine	.90303	.90302	.00017	.38434	[illegible]	[illegible]52

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Title: Semi-volatile Organics By EPA 8270/625 (SYSTEM #1)
Calibrated: 940518 14:20

Compound	Files: >A4365 RF 20.00	>A4366 RF 50.00	>A4367 RF 80.00	>A4368 RF 120.00	>A4369 RF 160.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CORR1	CORR2	
Pyridine	.81062	.77286	.86006	.65141	.83318	.230	.78562	10.381	.977498	.982908	
n-Nitrosodimethylamine	.52952	.48999	.43839	.40256	.48106	.235	.46830	10.460	.987477	.995294	
2-Fluorophenol (SURR)	.68819	.65100	.66195	.66118	.65859	.603	.66418	2.123	-	-	(Conc=200.0,200.0,
Phenol-d5 (SURR)	1.07170	1.02219	1.00279	1.00796	.99120	.957	1.01917	3.081	-	-	(Conc=200.0,200.0,
Phenol	1.21505	1.16467	1.18328	1.13483	1.07609	.960	1.15478	4.568	.998412	.999770	
Aniline	1.33300	1.29032	1.32912	1.25016	1.21774	.921	1.28407	3.896	.998893	.999740	
bis(2-Chloroethyl)ether	1.33237	1.27020	1.32912	1.24980	1.21774	.921	1.27985	3.915	.998839	.999628	
2-Chlorophenol	1.16484	1.07373	1.05424	1.03193	.95814	.950	1.05658	7.070	.997990	.999429	
1,3-Dichlorobenzene	1.52119	1.38098	1.43051	1.36870	1.31546	.984	1.40337	5.525	.998956	.999667	
1,4-Dichlorobenzene	1.59056	1.44770	1.44231	1.38386	1.32150	1.006	1.43719	6.948	.999032	.999865	
Benzyl alcohol	.52226	.53384	.56798	.55979	.59176	1.084	.55513	4.985	.999084	.999639	
1,2-Dichlorobenzene	1.59707	1.48181	1.44506	1.42006	1.38812	1.065	1.46643	5.502	.999871	.999989	
2-Methylphenol	1.05766	1.03426	1.02974	1.00800	1.00361	1.146	1.02665	2.127	.999938	.999978	
bis(2-Chloroisopropyl)ether	2.73474	2.68871	2.77480	2.66845	2.61408	1.133	2.69615	2.289	.999428	.999856	
4-Methylphenol	1.11901	1.09579	1.08606	1.05364	1.03059	1.199	1.07702	3.250	.999650	.999990	
N-Nitroso-di-n-propylamine	1.01935	1.01518	1.01054	1.00220	.98900	1.184	1.00725	1.194	.999918	.999997	
Hexachloroethane	.86709	.76924	.76364	.72506	.71021	1.162	.76705	7.988	.999639	.999891	
Nitrobenzene-d5 (SURR)	.33605	.32333	.32934	.31783	.32434	.845	.32618	2.106	-	-	(Conc=100.0,100.0,
Nitrobenzene	.39186	.35634	.33371	.35046	.33294	.850	.35306	6.795	.998909	.998936	
Isophorone	.66643	.63753	.64166	.64015	.64221	.908	.64560	1.826	.999973	.999990	
2-Nitrophenol	.20951	.20372	.20674	.20620	.20738	.924	.20671	1.012	.999966	.999983	
2,4-Dimethylphenol	.25664	.25891	.25239	.24982	.24152	.959	.25186	2.692	.999500	.999946	
Benzoic acid	.17528	.22189	.28929	.30403	.29961	1.018	.25802	22.073	.998220	.998334	
bis(2-Chloroethoxy)methane	.43887	.41767	.41580	.40358	.39146	.976	.41348	4.276	.999537	.999964	
2,4-Dichlorophenol	.36947	.37331	.38544	.37766	.36986	.984	.37515	1.767	.999609	.999913	
1,2,4-Trichlorobenzene	.49121	.47630	.46237	.44318	.43916	.994	.46245	4.753	.999702	.999895	
Naphthalene	1.04396	.95917	.90930	.89155	.84426	1.004	.92965	8.173	.999065	.999808	
4-Chloroaniline	.48760	.40552	.36523	.30121	.24028	1.039	.35997	26.417	.959610	.987562	
Hexachlorobutadiene	.41958	.39395	.38820	.36940	.37384	1.055	.38899	5.101	.999704	.999707	
4-Chloro-3-methylphenol	.36317	.34454	.36170	.36231	.35952	1.172	.35825	2.172	.999809	.999810	
2-Methylnaphthalene	1.15254	1.05499	1.01602	.95237	.96065	1.169	1.02731	7.943	.999529	.999554	
1-Methylnaphthalene	.80441	.74355	.72941	.68914	.67642	1.194	.72859	6.948	.999509	.999888	
Hexachlorocyclopentadiene	.36864	.53507	.52697	.51971	.50695	.864	.49147	14.129	.998295	.999880	
2,4,6-Trichlorophenol	.48155	.46807	.49778	.45619	.44386	.884	.46949	4.495	.997808	.999264	
2,4,5-Trichlorophenol	.53846	.51847	.48317	.47457	.44085	.890	.49110	7.789	.997872	.999536	
2-Chloronaphthalene	1.20437	1.09812	1.08478	.97592	.90745	.905	1.05413	10.928	.995445	.999650	
2-Fluorobiphenyl (SURR)	1.12152	1.09349	1.06699	1.10158	1.03799	.897	1.08432	2.993	-	-1.0000	(Conc=100.0,100.0,

RF - Response Factor (Subscript is amount in ug/ml)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

Rn - Coefficient of Correlation (nth degree)

008856

5/18/94

008856

8856

Calibration Report

Title: Semi-volatile Organics By EPA 8270/625 (SYSTEM #1)
Calibrated: 940518 14:20

Compound	Files: >A4365 RF 20.00	>A4366 RF 50.00	>A4367 RF 80.00	>A4368 RF 120.00	>A4369 RF 160.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CORR1	CORR2	
2-Nitroaniline	.39684	.39388	.41233	.37398	.35703	.939	.38681	5.565	.996486	.999354	
Dimethylphthalate	1.50380	1.45795	1.44586	1.41962	1.33872	.981	1.43319	4.254	.998607	.999711	
Acenaphthylene	1.92175	1.79114	1.77621	1.63653	1.49357	.973	1.72384	9.492	.994827	.999466	
2,6-Dinitrotoluene	.33657	.34193	.36016	.32805	.30193	.990	.33373	6.387	.993743	.999134	
3-Nitroaniline	.36200	.29210	.28129	.25032	.21341	1.010	.27983	19.727	.986200	.996347	
Acenaphthene	1.29301	1.15393	1.14209	1.02435	.95581	1.005	1.11384	11.667	.995751	.999594	
2,4-Dinitrophenol	.08385	.18829	.25308	.25277	.26522	1.026	.20864	36.431	.998873	.998912	
4-Nitrophenol	.20159	.23192	.23816	.22818	.21686	1.054	.22334	6.457	.997579	.999901	
Dibenzofuran	1.97721	1.77685	1.73706	1.59567	1.47731	1.033	1.71282	11.069	.996312	.999749	
2,4-Dinitrotoluene	.51840	.53079	.55211	.52926	.50581	1.053	.52727	3.247	.998362	.999773	
Diethylphthalate	1.96520	1.83259	1.68491	1.68135	1.49668	1.101	1.73215	10.192	.995051	.997795	
4-Chlorophenyl-phenylether	.89555	.84486	.81569	.71904	.69990	1.097	.79501	10.493	.996690	.999005	
Fluorene	1.53313	1.35504	1.37016	1.23852	1.16299	1.090	1.33197	10.600	.996462	.999469	
4-Nitroaniline	.38117	.36538	.36516	.37548	.33275	1.116	.36399	5.152	.994568	.996539	
4,6-Dinitro-2-methylphenol	.12875	.14994	.15512	.15717	.13379	.901	.14496	8.893	.988262	.993579	
N-Nitrosodiphenylamine	.43238	.37084	.29559	.30083	.25515	.904	.33096	21.248	.988768	.992443	
Azobenzene (1,2-D.P.H)	.85931	.76483	.63232	.61523	.53400	.904	.68114	19.019	.991179	.996549	
2,4,6-Tribromophenol (SURR)	.30453	.33841	.32009	.33655	.31657	.914	.32323	4.408	-	-	(Conc=200.0,200.0,
4-Bromophenyl-phenylether	.30716	.30732	.28920	.27779	.26574	.947	.28944	6.302	.998679	.999953	
Hexachlorobenzene	.54436	.53610	.49054	.48976	.45623	.961	.50340	7.247	.997992	.999319	
Pentachlorophenol	.29662	.29204	.30092	.31723	.29059	.990	.29948	3.580	.996973	.997653	
Phenanthrene	1.17282	1.07000	1.02953	1.03027	.94418	1.003	1.04936	7.900	.997507	.998817	
Anthracene	1.19753	1.07979	.95861	.97035	.89100	1.009	1.01946	11.808	.997568	.998559	
Carbazole	1.13094	.95619	.83569	.92993	.87453	1.039	.94545	12.041	.996708	.996838	
Di-n-butylphthalate	1.75391	1.66722	1.49768	1.46011	1.23298	1.104	1.52238	13.253	.987478	.994409	
Fluoranthene	1.67976	1.61596	1.43612	1.44844	1.21431	1.163	1.47892	12.278	.987223	.992452	
Benzidine	.14960	.18206	.17173	.15862	.15427	.878	.16326	8.185	.996482	.999456	
Pyrene	1.09095	.95257	.85750	.80105	.78755	.877	.89792	14.026	.999321	.999578	
Terphenyl-d14 (SURR)	.78828	.78442	.76193	.76136	.80541	.902	.78028	2.404	-	-	(Conc=100.0,100.0,
Butylbenzylphthalate	.57240	.53556	.51465	.50138	.44296	.959	.51339	9.230	.993754	.997770	
3,3'-Dichlorobenzidine	.32487	.38898	.33545	.31134	.25076	1.004	.32228	15.409	.968661	.989138	
Benzo(a)anthracene	1.17186	1.14295	1.06213	1.05288	.96249	.998	1.07846	7.654	.996862	.999035	
Chrysene	1.10094	1.08498	.94838	.89446	.80966	1.003	.96768	12.888	.993966	.999394	
bis(2-Ethylhexyl)phthalate	.84909	.88091	.76720	.75874	.67409	1.021	.78600	10.377	.993086	.997846	
Di-n-octylphthalate	1.19042	1.10516	.89021	.79184	.61550	.954	.91863	25.380	.956691	.981395	
Benzo(b)fluoranthene	.96466	1.17672	1.11337	1.08191	.96079	.972	1.05949	8.940	.991626	.998484	
Benzo(k)fluoranthene	1.22032	.80230	.64166	.53174	.91370	.974	.82195	32.431	.911641	.991180	

RF - Response Factor (Subscript is amount in ug/ml)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CORRn - Coefficient of Correlation (nth degree)

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008857

8857

Calibration Report

Title: Semi-volatile Organics By EPA 8270/625 (SYSTEM #1)
Calibrated: 940518 14:20

Compound	Files: >A4365 RF 20.00	>A4366 RF 50.00	>A4367 RF 80.00	>A4368 RF 120.00	>A4369 RF 160.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CORR1	CORR2
Benzo(a)pyrene	1.00793	.94780	.86272	.89041	.72227	.996	.88623	12.107	.982511	.986545
Indeno(1,2,3-cd)pyrene	.91140	1.20045	1.17419	1.16288	1.07290	1.075	1.10437	10.691	.995690	.999465
Dibenz(a,h)anthracene	.61738	.89266	.88908	.79398	.65676	1.077	.76997	16.672	.970717	.992842
Benzo(g,h,i)perylene	.83036	1.06664	1.03696	1.02422	.89555	1.094	.97074	10.531	.990177	.997190

008858

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RF - Response Factor (Subscript is amount in ug/ml)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

xRn - Coefficient of Correlation (nth degree)

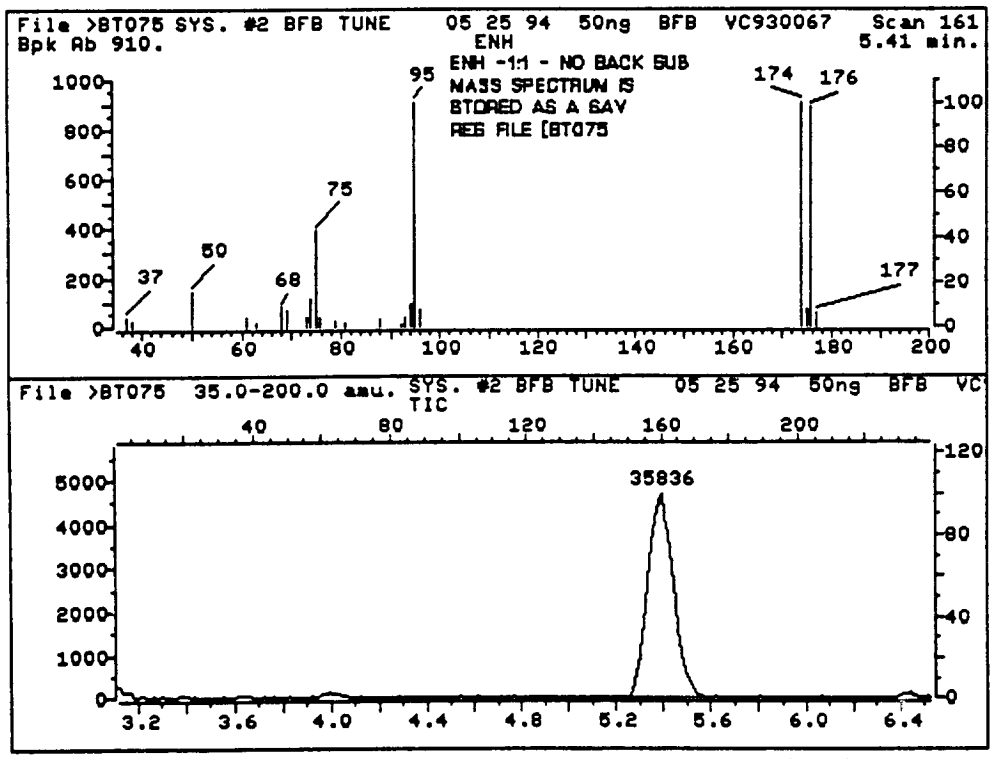
GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	Appropriate Peak	Status
50	15-40% of mass 95	15.87	15.87	Ok
75	30-60% of mass 95	43.09	43.09	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	7.44	7.44	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	99.82	99.82	Ok
175	5-9% of mass 174	7.40	7.42	Ok
176	95-101% of mass 174	97.65	97.83	Ok
177	5-9% of mass 176	6.08	6.23	Ok

008859

Injection Date: 05/25/94
Injection Time: 12:09
Data File: >BT075
Scan: 161



Instrument ID: VOA II Analyzed on: 5/25/94 12:09

MJH 05-25-94

008859

8859

>BT075 SYS. #2 BFB TUNE 05 25 94 50ng BFB VC930067
161 NRM ENH

File: >BT075 Scan #: 161 Retn. time: 5.41

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
37.00	4.287	67.95	8.684	75.95	3.811	92.95	3.811	173.90	99.817
38.00	2.345	68.95	7.622	78.90	2.455	93.95	10.260	174.90	7.402
49.95	15.867	72.95	4.361	80.70	1.063	94.95	100.000	175.90	97.655
61.00	3.884	73.95	12.422	87.95	2.748	95.95	7.439	176.90	6.083
63.00	1.832	74.95	43.093	91.95	.733				

Instrument ID: VOA II Analyzed on: 5/25/94 12:09

008860

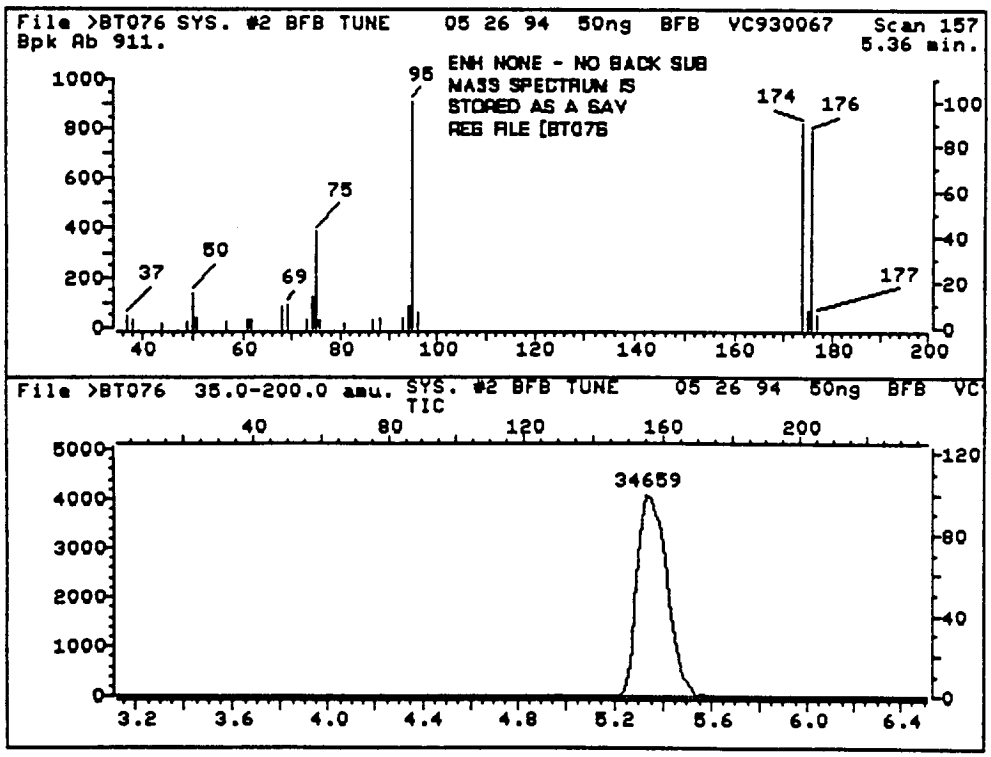
GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	Appropriate Peak	Status
50	15-40% of mass 95	15.26	15.26	Ok
75	30-60% of mass 95	42.26	42.26	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	6.92	6.92	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	90.34	90.34	Ok
175	5-9% of mass 174	7.14	7.90	Ok
176	95-101% of mass 174	86.72	95.99	Ok
177	5-9% of mass 176	5.71	6.58	Ok

008861

Injection Date: 05/26/94
Injection Time: 14:28
Data File: >BT076
Scan: 157



Instrument ID: VOA II Analyzed on: 5/26/94 14:28

MJK 052694

008861

8861

>BT076 SYS. #2 BFB TUNE 05 26 94 50ng BFB VC930067
157 NRM

File: >BT076 Scan #: 157 Retn. time: 5.36

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
37.00	4.940	56.80	2.305	72.95	3.074	86.80	2.964	95.95	6.915
38.10	3.183	61.00	3.183	74.05	13.172	88.05	4.061	173.90	90.340
43.85	1.647	61.90	2.744	74.95	42.261	93.05	4.061	175.00	7.135
48.95	2.415	67.95	8.891	75.95	3.074	93.95	9.330	175.90	86.718
49.95	15.258	69.05	9.879	80.80	1.756	94.95	100.000	176.90	5.708
50.95	3.732								

Instrument ID: VOA II Analyzed on: 5/26/94 14:28

008862

[CCC AND SPCC DAILY CALIBRATION CHECK OPERATOR REPORT VOA'S]

DATA FILE NAME = >BC067::D3
DATE AND TIME OF ANALYSIS = 5/25/94 14:04
SAMPLE = SYSTEM #2 CAL. CHEC
MISCELLANEOUS = 05 25 94 50ug/L Daily CCC/ CC940091
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

	Retention Times	Response factors	
CCC COMPOUND	DAILY CAL RF	5-POINT AVE RF	%D
Vinyl Chloride	.3464	.4307	19.56
1,1-Dichloroethene	.9152	.8655	5.74
Chloroform	2.6287	3.1233	15.84
1,2-Dichloropropane	.2090	.2366	11.66
Toluene	.5788	.7155	19.10
Ethylbenzene	.4104	.4683	12.36

SPCC COMPOUND	DAILY RF
Chloromethane	.3307
1,1-Dichloroethane	1.5296
Bromoform	.4734
1,1,2,2-Tetrachloroethane	.5236
Chlorobenzene	.9408

DAILY CALIBRATION FOR VOA'S PASSED ALL CCC AND SPCC CRITERIA

THE RF AND RT VALUES WILL AUTOMATICALLY BE UPDATED IN YOUR IDFILE

MJH 05-25-94

008863

[RRT AND RF DAILY CALIBRATION GC/MS OPERATOR REPORT VOA'S]

DATA FILE NAME = >BC067::D3
DATE AND TIME OF ANALYSIS = 5/25/94 14:04
SAMPLE = SYSTEM #2 CAL. CHEC
MISCELLANEOUS = 05 25 94 50ug/L Daily CCC/ CC940091
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

	Retention Times			Response factors		
Compound Name	RRT FOUND	RRT IN THE IDFILE	RT DIFF-ERENCE	RF FOUND	AVE. RF FROM 5-POINT	RATIO RF FOUND TO RF IN IDFILE
Dichlorodifluoromethane	.29195	.29117	.01050	.77631	.6521	1.0174
Chloromethane	.32543	.32467	.01083	.33074	.3193	.95265
Vinyl Chloride	.33261	.33185	.01093	.34645	.4307	.90953
Bromomethane	.38528	.38698	-.0083	.79189	.7574	.95274
Chloroethane	.38767	.38698	.01113	.31511	.2877	.94136
Trichlorofluoromethane	.42358	.42057	.03052	1.7942	3.7129	1.0573
Acrolein	.47624	.47573	.01093	.02737	.0323	1.3187
Acetone	.48821	.48770	.01107	.18642	.1879	1.4766
1,1-Dichloroethene	.50975	.50447	.05022	.91518	.8655	.92299
Methylene Chloride	.60070	.59782	.03198	1.0310	.7872	.91503
Carbon Disulfide	.60550	.59782	.07105	1.4849	2.3779	1.0867
[illegible]yl-t-Butyl Ether (MTBE)	.62706	.62417	.03245	1.6322	2.4010	1.1911
Acrylonitrile	.63185	.63136	.01307	.09889	.0788	1.2635
cis-1,2-Dichloroethene	.65102	.65293	-.0062	1.0315	.9269	.91032
Hexane	.00000	.64834	-5.269	.00000	1.0607	******
1,1-Dichloroethane	.75630	.75585	.01447	1.5296	1.8214	1.1385
trans-1,2-Dichloroethene	.91397	.91382	.01432	1.2151	1.0646	.95644
Chloroform	.95221	.95213	.01430	2.6287	3.1233	1.1169
1,2-Dichloroethane	1.1888	1.1891	.01442	1.6577	2.1113	1.1694
Vinyl Acetate	.59701	.59641	.01442	.15251	.2023	1.2069
2-Butanone (MEK)	.68508	.68462	.01428	.06856	.0635	1.5180
1,1,1-Trichloroethane	.82942	.83102	-.0051	.54136	.8608	1.0692
Carbon Tetrachloride	.88379	.88169	.03392	.50671	.8000	1.0023
Benzene	.92691	.92487	.03388	.53801	.6323	1.0844
Trichloroethene	1.0675	1.0675	.01395	.42011	.4750	1.0734
1,2-Dichloropropane	1.1181	1.1182	.01403	.20901	.2366	1.1117
Bromodichloromethane	1.1781	1.1783	.01418	.52276	.6559	.91143
1,4-Dioxane	1.1931	1.1914	.03367	.00256	.0026	1.3258
Dibromomethane	1.1893	1.1914	-.0053	.42883	.3882	.98263
2-Chloroethyl vinyl ether	1.2718	1.2721	.01462	.13826	.1591	1.2059
cis-1,3-Dichloropropene	1.3206	1.3209	.01487	.35858	.4579	1.0950
trans-1,3-Dichloropropene	1.4575	1.4580	.01515	.41470	.5560	1.1228
1,1,2-Trichloroethane	1.4950	1.4955	.01510	.28669	.3287	1.1736
Dibromochloromethane	1.6243	1.6250	.01502	.59652	.7027	.93145
1,2-Dibromoethane	1.6768	1.6776	.01492	.45910	.4655	1.1052
Bromoform	2.0591	2.0586	.03393	.47340	.5683	1.1028
4-Methyl-2-Pentanone	.71564	.71618	.01462	.26014	.2677	1.3872
[illegible]ene	.78203	.78268	.01493	.57882	.7155	1.0634
2-Hexanone	.84629	.84599	.03459	.17290	.1649	1.4844
Tetrachloroethene	.87473	.87554	.01511	.54896	.5830	.99867
Chlorobenzene	1.0053	1.0063	.01480	.94082	1.0675	1.0856

008864

Ethylbenzene	1.0148	1.0159	.01479	.41040	.4683	1.1190
m & p-Xylene	1.0274	1.0275	.03420	.51584	.5878	1.0885
o-Xylene	1.0959	1.0960	.03445	1.0944	1.3778	1.1096
Styrene	1.1043	1.1056	.01495	.83807	.9495	1.0955
1,1,2,2-Tetrachloroethane	1.1917	1.1921	.03390	.52358	.5519	1.2238
1,3-Dichlorobenzene	1.3737	1.3755	.01432	1.0180	1.1059	1.0514
1,4-Dichlorobenzene	1.3916	1.3935	.01422	1.1018	1.1635	1.0607
1,2-Dichlorobenzene	1.4432	1.4442	.03232	.95360	1.0049	1.1124
1,2-Dibromo-3-chloropropane	1.5422	1.5443	.01325	.15305	.1495	1.2200
Naphthalene	1.6580	1.6593	.03263	.96748	.9086	1.0600
.....					0.0000	.....
1,2-Dichloroethane-d4 (SURR)	1.1601	1.1604	.01442	1.5008	1.6926	1.1283
Toluene-d8 (SURR)	.77148	.77106	.03437	1.0254	1.0705	.99845
Bromofluorobenzene (SURR)	1.1970	1.1973	.03388	.82966	1.1903	1.0410

008865

[CCC AND SPCC DAILY CALIBRATION CHECK OPERATOR REPORT VOA'S]

DATA FILE NAME = >BC068::D3
DATE AND TIME OF ANALYSIS = 5/26/94 14:44
SAMPLE = SYSTEM #2 CAL. CHEC
MISCELLANEOUS = 05 26 94 50ug/L Daily CCC/ CC940091
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

	Retention Times	Response factors	
CCC COMPOUND	DAILY CAL RF	5-POINT AVE RF	%D
Vinyl Chloride	.3474	.4307	19.35
1,1-Dichloroethene	.9325	.8655	7.74
Chloroform	2.7436	3.1233	12.16
1,2-Dichloropropane	.2211	.2366	6.56
Toluene	.6303	.7155	11.90
Ethylbenzene	.4295	.4683	8.28

008866

SPCC COMPOUND	DAILY RF
Chloromethane	.3145
1,1-Dichloroethane	1.5670
Bromoform	.4951
1,1,2,2-Tetrachloroethane	.5214
Chlorobenzene	1.0158

DAILY CALIBRATION CHECK FOR VOA II PASSED ALL CCC AND SPCC CRITERIA

THE RF AND RT VALUES WILL AUTOMATICALLY BE UPDATED IN YOUR IDFILE

NJH 05-26-94

[RRT AND RF DAILY CALIBRATION GC/MS OPERATOR REPORT VOA'S]

DATA FILE NAME = >BC068::D3
DATE AND TIME OF ANALYSIS = 5/26/94 14:44
SAMPLE = SYSTEM #2 CAL. CHEC
MISCELLANEOUS = 05 26 94 50ug/L Daily CCC/ CC940091
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

	Retention Times			Response factors		
Compound Name	RRT FOUND	RRT IN THE IDFILE	RT DIFF-ERENCE	RF FOUND	AVE. RF FROM 5-POINT	RATIO RF FOUND TO RF IN IDFILE
Dichlorodifluoromethane	.29169	.29195	.00293	.72071	.6521	.92838
Chloromethane	.32745	.32543	.02207	.31448	.3193	.95086
Vinyl Chloride	.32984	.33261	-.0169	.34737	.4307	1.0027
Bromomethane	.38705	.38528	.02112	.78149	.7574	.98687
Chloroethane	.38467	.38767	-.0178	.31429	.2877	.99739
Trichlorofluoromethane	.42046	.42358	-.0182	1.9185	3.7129	1.0693
Acrolein	.47767	.47624	.01990	.02695	.0323	.98494
Acetone	.48721	.48821	.00028	.18164	.1879	.97440
1,1-Dichloroethene	.50391	.50975	-.0389	.93251	.8655	1.0189
Methylene Chloride	.59689	.60070	-.0207	.92110	.7872	.89344
Carbon Disulfide	.60405	.60550	-.0014	1.5397	2.3779	1.0369
[illegible]yl-t-Butyl Ether (MTBE)	.62556	.62706	-.0015	1.5109	2.4010	.92568
Acrylonitrile	.63035	.63185	-.0014	.09773	.0788	.98834
cis-1,2-Dichloroethene	.64949	.65102	-.0013	1.0693	.9269	1.0367
Hexane	.00000	.64834	-5.279	.00000	1.0607	******
1,1-Dichloroethane	.75443	.75630	-.0022	1.5670	1.8214	1.0245
trans-1,2-Dichloroethene	.90939	.91397	-.0217	1.2308	1.0646	1.0129
Chloroform	.94992	.95221	-.0023	2.7436	3.1233	1.0437
1,2-Dichloroethane	1.1860	1.1888	-.0025	1.7493	2.1113	1.0553
Vinyl Acetate	.59692	.59701	-.0022	.16226	.2023	1.0639
2-Butanone (MEK)	.68501	.68508	-.0023	.06905	.0635	1.0070
1,1,1-Trichloroethane	.83125	.82942	.01715	.60070	.8608	1.1096
Carbon Tetrachloride	.88186	.88379	-.0219	.58389	.8000	1.1523
Benzene	.92687	.92691	-.0025	.58121	.6323	1.0803
Trichloroethene	1.0694	1.0675	.01712	.46272	.4750	1.1014
1,2-Dichloropropane	1.1181	1.1181	-.0024	.22108	.2366	1.0577
Bromodichloromethane	1.1781	1.1781	-.0026	.57706	.6559	1.1039
1,4-Dioxane	1.1931	1.1931	-.0027	.00267	.0026	1.0421
Dibromomethane	1.1912	1.1893	.01687	.43745	.3882	1.0201
2-Chloroethyl vinyl ether	1.2718	1.2718	-.0031	.14560	.1591	1.0531
cis-1,3-Dichloropropene	1.3206	1.3206	-.0033	.38807	.4579	1.0822
trans-1,3-Dichloropropene	1.4574	1.4575	-.0038	.44354	.5560	1.0695
1,1,2-Trichloroethane	1.4949	1.4950	-.0037	.30505	.3287	1.0640
Dibromochloromethane	1.6262	1.6243	.01570	.65217	.7027	1.0933
1,2-Dibromoethane	1.6768	1.6768	-.0038	.44061	.4655	.95971
Bromoform	2.0610	2.0591	.01535	.49507	.5683	1.0458
[illegible]ethyl-2-Pentanone	.71563	.71564	-.0031	.25319	.2677	.97330
[illegible]ene	.78306	.78203	.01598	.63034	.7155	1.0890
2-Hexanone	.84627	.84629	-.0037	.14843	.1649	.85849
Tetrachloroethene	.87471	.87473	-.0037	.59575	.5830	1.0852
Chlorobenzene	1.0053	1.0053	-.0039	1.0158	1.0675	1.0797

Ethylbenzene	1.0169	1.0148	.03512	.42954	.4683	1.0466
m & p-Xylene	1.0274	1.0274	-.0038	.55018	.5878	1.0666
o-Xylene	1.0959	1.0959	-.0041	1.1617	1.3778	1.0615
Styrene	1.1043	1.1043	-.0041	.89205	.9495	1.0644
,2,2-Tetrachloroethane	1.1917	1.1917	-.0041	.52137	.5519	.99580
-Dichlorobenzene	1.3738	1.3737	-.0037	1.0249	1.1059	1.0067
1,4-Dichlorobenzene	1.3928	1.3916	.01580	1.1011	1.1635	.99936
1,2-Dichlorobenzene	1.4434	1.4432	-.0033	.90356	1.0049	.94753
1,2-Dibromo-3-chloropropane	1.5423	1.5422	-.0032	.09412	.1495	.61497
Naphthalene	1.6581	1.6580	-.0033	.17686	.9086	.18280
.....					0.0000	.....
1,2-Dichloroethane-d4 (SURR)	1.1574	1.1601	-.0025	1.4685	1.6926	.97850
Toluene-d8 (SURR)	.77040	.77148	-.0229	1.0395	1.0705	1.0138
Bromofluorobenzene (SURR)	1.1970	1.1970	-.0041	.82537	1.1903	.99482

008868

Calibration Report

Title: SYSTEM #2: VOLATILE ORGANICS BY EPA METHODS 8240 & 624
Calibrated: 940316 00:28

Compound	Files: >B0064 RF 10.00	>B0065 RF 50.00	>B0066 RF 100.00	>B0067 RF 250.00	>B0068 RF 500.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CORR1	CORR2	
Dichlorodifluoromethane	.59469	.68772	.68433	.64611	.64755	.304	.65208	5.768	.999911	.999915	
Chloromethane	.23029	.39471	.30983	.32574	.33596	.336	.31931	18.540	.999420	.999532	
Vinyl Chloride	.35721	.39906	.44298	.47226	.48203	.343	.43071	12.127	.999906	.999940	
Bromomethane	.36520	.84453	.91061	.81842	.84832	.394	.75742	29.291	.999520	.999525	
Chloroethane	.19956	.29597	.31443	.29338	.33503	.397	.28767	18.083	.998088	.999592	
Trichlorofluoromethane	5.00499	3.39048	3.47239	3.58588	3.11097	.431	3.71294	20.018	.997128	.999453	
Acrolein	.04111	.02995	.03091	.03098	.02863	.488	.03232	15.491	.999182	.999863	(Conc=100.0,500.0,
Acetone	.26601	.17071	.17884	.16902	.15515	.500	.18795	23.658	.999053	.999908	(Conc=100.0,500.0,
1,1-Dichloroethene	.70625	.89529	.95813	.89701	.87067	.519	.86547	10.939	.999671	.999928	
Methylene Chloride	.81161	.79412	.81622	.74833	.76590	.612	.78724	3.731	.999785	.999812	
Carbon Disulfide	3.07029	2.23718	2.34267	2.37403	1.86546	.615	2.37792	18.367	.990697	.998487	(Conc=100.0,500.0,
Methyl-t-Butyl Ether (MTBE)	2.08761	2.54606	2.66012	2.35386	2.35719	.635	2.40097	9.090	.999608	.999650	
Acrylonitrile	.08992	.07453	.07979	.07745	.07253	.641	.07884	8.604	.999352	.999944	(Conc=100.0,500.0,
cis-1,2-Dichloroethene	.83656	.95247	.98947	.92579	.93040	.660	.92694	6.089	.999885	.999889	
Hexane	.97725	1.00081	1.00299	1.25529	1.06737	.657	1.06074	10.727	.995116	.998171	
1,1-Dichloroethane	2.25923	1.63569	1.69907	1.77308	1.73974	.762	1.82136	13.730	.999863	.999877	
trans-1,2-Dichloroethene	.92417	1.06134	1.15845	1.08694	1.09208	.914	1.06459	8.107	.999869	.999878	
Chloroform	4.05787	2.78088	2.87090	2.98866	2.91805	.955	3.12327	16.902	.999836	.999859	
1,2-Dichloroethane-d4 (SURR)	1.71455	1.68510	1.72624	1.69412	1.64292	1.155	1.69259	1.901	-	-	(Conc=50.0,50.0,50
1,2-Dichloroethane	2.64678	1.90025	2.00527	2.02648	1.97791	1.183	2.11134	14.356	.999878	.999920	
Vinyl Acetate	.21536	.19167	.20219	.20435	.19787	.605	.20229	4.334	.999828	.999955	(Conc=100.0,500.0,
Butanone (MEK)	.07934	.05851	.06137	.06093	.05750	.692	.06353	14.142	.999547	.999915	(Conc=100.0,500.0,
1,1,1-Trichloroethane	1.11000	.76257	.79289	.82308	.81569	.833	.86085	16.410	.999886	.999887	
Carbon Tetrachloride	1.01368	.70632	.74337	.76324	.77354	.884	.80003	15.269	.999874	.999928	
Benzene	.80173	.57800	.58510	.60883	.58767	.928	.63227	15.093	.999784	.999864	
Trichloroethene	.61831	.41944	.43521	.46218	.43975	1.066	.47498	17.174	.999542	.999733	
1,2-Dichloropropane	.30042	.21372	.21889	.22871	.22105	1.115	.23656	15.262	.999773	.999847	
Bromodichloromethane	.61380	.65122	.67922	.67154	.66379	1.174	.65591	3.920	.999961	.999993	
1,4-Dioxane	.00324	.00247	.00256	.00247	.00231	1.188	.00261	13.927	.999369	.999953	(Conc=500.0,2500.0
Dibromomethane	.34419	.39489	.41652	.38874	.39648	1.187	.38816	6.879	.999845	.999852	
2-Chloroethyl vinyl ether	.18702	.14223	.15277	.16077	.15267	1.265	.15909	10.650	.999513	.999784	
cis-1,3-Dichloropropene	.58599	.40637	.42201	.43995	.43528	1.314	.45792	15.892	.999878	.999878	
trans-1,3-Dichloropropene	.70181	.50200	.51587	.53788	.52243	1.447	.55600	14.843	.999813	.999862	
1,1,2-Trichloroethane	.43540	.29283	.31088	.30800	.29617	1.485	.32865	18.304	.999771	.999908	
Dibromochloromethane	.63534	.69451	.73732	.71523	.73126	1.613	.70273	5.857	.999924	.999950	
1,2-Dibromoethane	.38974	.48656	.50418	.46483	.48214	1.664	.46549	9.581	.999699	.999759	
Bromoform	.68200	.50769	.54849	.56702	.53624	2.041	.56829	11.812	.999481	.999814	

RF - Response Factor (Subscript is amount in ug/L)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CORRn - Coefficient of Correlation (nth degree)

COPIED FROM POOR QUALITY ORIGINAL

008869

8869

3-15-94

Calibrated: 940316 00:28

Compound	Files: >B0064 RF 10.00	>B0065 RF 50.00	>B0066 RF 100.00	>B0067 RF 250.00	>B0068 RF 500.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CORR1	CORR2	
4-Methyl-2-Pentanone	.31985	.23395	.24846	.30893	.22750	.719	.26774	16.221	.983175	.994527	(Conc=100.0,500.0,
Toluene-d8 (SURR)	1.07919	1.05613	1.06337	1.08965	1.06420	.773	1.07051	1.270	-	-	(Conc=50.0,50.0,50
Toluene	.97003	.65082	.64928	.67626	.63105	.784	.71549	20.014	.999352	.999756	
2-Hexanone	.20645	.15563	.16004	.15969	.14250	.847	.16486	14.748	.998211	.999785	(Conc=100.0,500.0,
Tetrachloroethene	.77196	.53315	.51942	.56932	.52118	.876	.58301	18.442	.998787	.999473	
Chlorobenzene	1.41357	.93457	.99232	1.04966	.94743	1.000	1.06751	18.607	.998408	.999526	
Ethylbenzene	.63706	.42038	.42658	.44344	.41410	1.016	.46831	20.278	.999348	.999752	
m & p-Xylene	.78073	.52729	.54666	.56301	.52144	1.027	.58783	18.557	.999180	.999758	(Conc=20.0,100.0,2
o-Xylene	1.81999	1.21835	1.27253	1.32343	1.25462	1.096	1.37778	18.151	.999544	.999784	
Styrene	1.23746	.84215	.90011	.92935	.83850	1.104	.94951	17.434	.998448	.999639	
1,1,2,2-Tetrachloroethane	.69475	.51071	.54458	.52890	.48070	1.190	.55193	15.092	.998706	.999876	
Bromofluorobenzene (SURR)	.79997	.88539	1.04359	1.38267	1.84005	1.195	1.19033	35.792	-	-	(Conc=50.0,50.0,50
1,3-Dichlorobenzene	1.44779	1.00168	1.02586	1.05689	.99704	1.372	1.10585	17.418	.999525	.999823	
1,4-Dichlorobenzene	1.52216	1.05967	1.10284	1.09645	1.03625	1.390	1.16347	17.392	.999588	.999905	
1,2-Dichlorobenzene	1.32660	.91864	.94472	.95656	.87783	1.441	1.00487	18.149	.999023	.999800	
1,2-Dibromo-3-chloropropane	.11084	.15817	.17157	.15869	.14840	1.539	.14953	15.479	.998952	.999945	
Naphthalene	.57396	1.01403	1.08017	.93662	.93798	1.653	.90855	21.609	.999337	.999450	

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RF - Response Factor (Subscript is amount in ug/L)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

?Rn - Coefficient of Correlation (nth degree)

Core Laboratories

CASE NARRATIVE

Client: JONES AND NEUSE

Project: DALLAS HOUSING AUTHORITY

Analysis: EPA METHOD 8240 AND 8270 (TCL)

008871

During the analysis of samples identified by Core Laboratories job numbers 942183, 942184, 942301, 942349, and 942379 the following conditions were encountered:

1) Samples were provided in single sample vessels exposing the samples to possible contamination of solvents such as methylene chloride and acetone when the samples were prepared for semi-volatile analysis. Separate sample containers should be used when volatile analyses are required.

2) Some soil samples exhibited a "matrix effect" on the recovery of internal standards. This occurs as a poor purging efficiency in volatiles analysis when attempting a low-level direct purge of the soil. In semi-volatile analysis, it is typically a hydrocarbon "hump" that co-elutes with the internal standard that causes the interferences.

3) Initial and continuing calibration data from instrument "VOA II" did not meet minimum response factor criteria for chloromethane on analysis dates 05/31/94 and 06/01/94. Response for this compound was acceptable on other analysis dates both before (05/25/94 & 05/26/94) and after (06/13/94) these occurrences. Samples analyzed on these dates were checked manually for the presence of chloromethane. None was detected.

Approved: Dana L. Harper — 7/21/94
Dana L. Harper, Laboratory Manager — Date

Dave McEvoy — 7/21/94
Dave McEvoy, Organic Supervisor — Date

George A. Nesbitt — 7/21/94
George A. Nesbitt, QA/QC Coordinator — Date

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WESTERN ATLAS

Core Laboratories

CORE LABORATORIES
A N A L Y T I C A L R E P O R T

Job Number: 942301
Prepared For:

JONES & NEUSE, INC.
MICHAEL WHITEHEAD
12655 N. CENTRAL EXPY.-SUITE 323
DALLAS, TX 75243

Date: 07/21/94

008872

Dana L. Harper
Signature

07/21/94
Date:

Name: DANA L. HARPER

Core Laboratories
3645 Beglis Parkway
Sulphur, LA 70663

Title: LABORATORY MANAGER

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942301 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SB-18-03-44
DATE SAMPLED.....: 05/17/94
TIME SAMPLED.....: 08:55
WORK DESCRIPTION...: DHA-RI

LABORATORY I.D...: 942301-0001
DATE RECEIVED....: 05/19/94
TIME RECEIVED....: 12:00
REMARKS.....: 17-19'

008873

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Semi-volatile Organic Contaminants		*33		SW-846/8270	05/31/94	LLB
Acenaphthene	ND	330	ug/kg	SW-846/8270		
Acenaphthylene	ND	330	ug/kg	SW-846/8270		
Anthracene	ND	330	ug/kg	SW-846/8270		
Benzo(a)anthracene	ND	330	ug/kg	SW-846/8270		
Benzo(b)fluoranthene	ND	330	ug/kg	SW-846/8270		
Benzo(k)fluoranthene	ND	330	ug/kg	SW-846/8270		
Benzo(ghi)perylene	ND	330	ug/kg	SW-846/8270		
Benzo(a)pyrene	ND	330	ug/kg	SW-846/8270		
Bis(2-chloroethoxy)methane	ND	330	ug/kg	SW-846/8270		
Bis(2-chloroethyl)ether	ND	330	ug/kg	SW-846/8270		
Bis(2-chloroisopropyl)ether	ND	330	ug/kg	SW-846/8270		
Bis(2-ethylhexyl) phthalate	ND	330	ug/kg	SW-846/8270		
4-Bromophenyl phenyl ether	ND	330	ug/kg	SW-846/8270		
Butyl benzyl phthalate	ND	330	ug/kg	SW-846/8270		
Carbazole	ND	330	ug/kg	SW-846/8270		
4-Chloroaniline	ND	330	ug/kg	SW-846/8270		
4-Chloro-3-methylphenol	ND	330	ug/kg	SW-846/8270		
2-Chloronaphthalene	ND	330	ug/kg	SW-846/8270		
2-Chlorophenol	ND	330	ug/kg	SW-846/8270		
4-Chlorophenyl phenyl ether	ND	330	ug/kg	SW-846/8270		
Chrysene	ND	330	ug/kg	SW-846/8270		
2-Methylphenol	ND	330	ug/kg	SW-846/8270		
4-Methylphenol	ND	330	ug/kg	SW-846/8270		
Dibenzo(a,h)anthracene	ND	330	ug/kg	SW-846/8270		
Dibenzofuran	ND	330	ug/kg	SW-846/8270		
Di-n-butyl phthalate	ND	330	ug/kg	SW-846/8270		
1,2-Dichlorobenzene	ND	330	ug/kg	SW-846/8270		
1,3-Dichlorobenzene	ND	330	ug/kg	SW-846/8270		
1,4-Dichlorobenzene	ND	330	ug/kg	SW-846/8270		
3,3'-Dichlorobenzidine	ND	330	ug/kg	SW-846/8270		
2,4-Dichlorophenol	ND	330	ug/kg	SW-846/8270		
Diethyl phthalate	ND	330	ug/kg	SW-846/8270		
2,4-Dimethylphenol	ND	330	ug/kg	SW-846/8270		
Dimethyl phthalate	ND	330	ug/kg	SW-846/8270		
2,4-Dinitrophenol	ND	825	ug/kg	SW-846/8270		
2,4-Dinitrotoluene	ND	330	ug/kg	SW-846/8270		
2,6-Dinitrotoluene	ND	330	ug/kg	SW-846/8270		
Di-n-octyl phthalate	ND	330	ug/kg	SW-846/8270		
Fluoranthene	ND	330	ug/kg	SW-846/8270		
Fluorene	ND	330	ug/kg	SW-846/8270		
Hexachlorobenzene	ND	330	ug/kg	SW-846/8270		
Hexachlorobutadiene	ND	330	ug/kg	SW-846/8270		
Hexachlorocyclopentadiene	ND	330	ug/kg	SW-846/8270		

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008873

8873

WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942301 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SB-18-03-44
DATE SAMPLED.....: 05/17/94
TIME SAMPLED.....: 08:55
WORK DESCRIPTION...: DHA-RI

LABORATORY I.D...: 942301-0001
DATE RECEIVED....: 05/19/94
TIME RECEIVED....: 12:00
REMARKS.....: 17-19'

008874

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Hexachloroethane	ND	330	ug/kg	SW-846/8270		
Indenol(1,2,3-cd)pyrene	ND	330	ug/kg	SW-846/8270		
Isophorone	ND	330	ug/kg	SW-846/8270		
2-Methyl-4,6-dinitrophenol	ND	825	ug/kg	SW-846/8270		
2-Methylnaphthalene	ND	330	ug/kg	SW-846/8270		
Naphthalene	ND	330	ug/kg	SW-846/8270		
2-Nitroaniline	ND	825	ug/kg	SW-846/8270		
3-Nitroaniline	ND	825	ug/kg	SW-846/8270		
4-Nitroaniline	ND	825	ug/kg	SW-846/8270		
Nitrobenzene	ND	330	ug/kg	SW-846/8270		
2-Nitrophenol	ND	330	ug/kg	SW-846/8270		
4-Nitrophenol	ND	825	ug/kg	SW-846/8270		
N-Nitrosodiphenylamine	ND	330	ug/kg	SW-846/8270		
N-Nitrosodi-n-propylamine	ND	330	ug/kg	SW-846/8270		
Pentachlorophenol	ND	825	ug/kg	SW-846/8270		
Phenanthrene	ND	330	ug/kg	SW-846/8270		
Phenol	ND	330	ug/kg	SW-846/8270		
Pyrene	ND	330	ug/kg	SW-846/8270		
1,2,4-Trichlorobenzene	ND	330	ug/kg	SW-846/8270		
2,4,6-Trichlorophenol	ND	330	ug/kg	SW-846/8270		
2,4,5-Trichlorophenol	ND	825	ug/kg	SW-846/8270		
Semivolatile Organics Extraction	COMPLETE			SW-846 3550	05/25/94	CMG
Volatile Organic Contaminants		*1		SW-846/8240	05/31/94	MJH
Acetone	43	10	ug/kg	SW-846/8240		
Benzene	ND	10	ug/kg	SW-846/8240		
Bromodichloromethane	ND	10	ug/kg	SW-846/8240		
Bromoform	ND	10	ug/kg	SW-846/8240		
Bromomethane	ND	10	ug/kg	SW-846/8240		
2-Butanone (MEK)	ND	10	ug/kg	SW-846/8240		
Carbon disulfide	ND	10	ug/kg	SW-846/8240		
Carbon tetrachloride	ND	10	ug/kg	SW-846/8240		
Chlorobenzene	ND	10	ug/kg	SW-846/8240		
Chloroethane	ND	10	ug/kg	SW-846/8240		
Chloroform	ND	10	ug/kg	SW-846/8240		
Chloromethane	ND	10	ug/kg	SW-846/8240		
Dibromochloromethane	ND	10	ug/kg	SW-846/8240		
1,1-Dichloroethane	ND	10	ug/kg	SW-846/8240		
1,2-Dichloroethane	ND	10	ug/kg	SW-846/8240		
1,1-Dichloroethene	ND	10	ug/kg	SW-846/8240		
1,2-Dichloroethene (Total)	ND	10	ug/kg	SW-846/8240		
1,2-Dichloropropane	ND	10	ug/kg	SW-846/8240		
cis-1,3-Dichloropropene	ND	10	ug/kg	SW-846/8240		

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942301 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SB-18-03-44
DATE SAMPLED.....: 05/17/94
TIME SAMPLED.....: 08:55
WORK DESCRIPTION...: DHA-RI

LABORATORY I.D...: 942301-0001
DATE RECEIVED....: 05/19/94
TIME RECEIVED....: 12:00
REMARKS.....: 17-19'

008875

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
trans-1,3-Dichloropropene	ND	10	ug/kg	SW-846/8240		
Ethylbenzene	ND	10	ug/kg	SW-846/8240		
2-Hexanone	ND	10	ug/kg	SW-846/8240		
Methylene chloride	ND	10	ug/kg	SW-846/8240		
4-Methyl-2-pentanone	ND	10	ug/kg	SW-846/8240		
Styrene	ND	10	ug/kg	SW-846/8240		
1,1,2,2-Tetrachloroethane	ND	10	ug/kg	SW-846/8240		
Tetrachloroethene	ND	10	ug/kg	SW-846/8240		
Toluene	ND	10	ug/kg	SW-846/8240		
1,1,1-Trichloroethane	ND	10	ug/kg	SW-846/8240		
1,1,2-Trichloroethane	ND	10	ug/kg	SW-846/8240		
Trichloroethene	ND	10	ug/kg	SW-846/8240		
Total Xylenes	ND	10	ug/kg	SW-846/8240		
Vinyl chloride	ND	10	ug/kg	SW-846/8240		

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942301 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SB-19-03-47
DATE SAMPLED.....: 05/17/94
TIME SAMPLED.....: 11:20
WORK DESCRIPTION...: DHA-RI

LABORATORY I.D...: 942301-0002
DATE RECEIVED....: 05/19/94
TIME RECEIVED....: 12:00
REMARKS.....: 10-15'

008876

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Semi-volatile Organic Contaminants		*33		SW-846/8270	05/31/94	LLB
Acenaphthene	1030	330	ug/kg	SW-846/8270		
Acenaphthylene	ND	330	ug/kg	SW-846/8270		
Anthracene	1620	330	ug/kg	SW-846/8270		
Benzo(a)anthracene	2000	330	ug/kg	SW-846/8270		
Benzo(b)fluoranthene	2300	330	ug/kg	SW-846/8270		
Benzo(k)fluoranthene	1420	330	ug/kg	SW-846/8270		
Benzo(ghi)perylene	937	330	ug/kg	SW-846/8270		
Benzo(a)pyrene	2120	330	ug/kg	SW-846/8270		
Bis(2-chloroethoxy)methane	ND	330	ug/kg	SW-846/8270		
Bis(2-chloroethyl)ether	ND	330	ug/kg	SW-846/8270		
Bis(2-chloroisopropyl)ether	ND	330	ug/kg	SW-846/8270		
Bis(2-ethylhexyl) phthalate	ND	330	ug/kg	SW-846/8270		
4-Bromophenyl phenyl ether	ND	330	ug/kg	SW-846/8270		
Butyl benzyl phthalate	ND	330	ug/kg	SW-846/8270		
Carbazole	969	330	ug/kg	SW-846/8270		
4-Chloroaniline	ND	330	ug/kg	SW-846/8270		
4-Chloro-3-methylphenol	ND	330	ug/kg	SW-846/8270		
2-Chloronaphthalene	ND	330	ug/kg	SW-846/8270		
2-Chlorophenol	ND	330	ug/kg	SW-846/8270		
4-Chlorophenyl phenyl ether	ND	330	ug/kg	SW-846/8270		
Chrysene	1000	330	ug/kg	SW-846/8270		
2-Methylphenol	ND	330	ug/kg	SW-846/8270		
4-Methylphenol	ND	330	ug/kg	SW-846/8270		
Dibenzo(a,h)anthracene	579	330	ug/kg	SW-846/8270		
Dibenzofuran	ND	330	ug/kg	SW-846/8270		
Di-n-butyl phthalate	ND	330	ug/kg	SW-846/8270		
1,2-Dichlorobenzene	ND	330	ug/kg	SW-846/8270		
1,3-Dichlorobenzene	ND	330	ug/kg	SW-846/8270		
1,4-Dichlorobenzene	ND	330	ug/kg	SW-846/8270		
3,3'-Dichlorobenzidine	ND	330	ug/kg	SW-846/8270		
2,4-Dichlorophenol	ND	330	ug/kg	SW-846/8270		
Diethyl phthalate	ND	330	ug/kg	SW-846/8270		
2,4-Dimethylphenol	ND	330	ug/kg	SW-846/8270		
Dimethyl phthalate	ND	330	ug/kg	SW-846/8270		
2,4-Dinitrophenol	ND	825	ug/kg	SW-846/8270		
2,4-Dinitrotoluene	ND	330	ug/kg	SW-846/8270		
2,6-Dinitrotoluene	ND	330	ug/kg	SW-846/8270		
Di-n-octyl phthalate	ND	330	ug/kg	SW-846/8270		
Fluoranthene	4540	330	ug/kg	SW-846/8270		
Fluorene	1550	330	ug/kg	SW-846/8270		
Hexachlorobenzene	ND	330	ug/kg	SW-846/8270		
Hexachlorobutadiene	ND	330	ug/kg	SW-846/8270		
Hexachlorocyclopentadiene	ND	330	ug/kg	SW-846/8270		

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008876

8876

WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942301 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SB-19-03-47
DATE SAMPLED.....: 05/17/94
TIME SAMPLED.....: 11:20
WORK DESCRIPTION...: DHA-RI

LABORATORY I.D...: 942301-0002
DATE RECEIVED....: 05/19/94
TIME RECEIVED....: 12:00
REMARKS.....: 10-15'

008877

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Hexachloroethane	ND	330	ug/kg	SW-846/8270		
Indenol(1,2,3-cd)pyrene	958	330	ug/kg	SW-846/8270		
Isophorone	ND	330	ug/kg	SW-846/8270		
2-Methyl-4,6-dinitrophenol	ND	825	ug/kg	SW-846/8270		
2-Methylnaphthalene	2320	330	ug/kg	SW-846/8270		
Naphthalene	5880	330	ug/kg	SW-846/8270		
2-Nitroaniline	ND	825	ug/kg	SW-846/8270		
3-Nitroaniline	ND	825	ug/kg	SW-846/8270		
4-Nitroaniline	ND	825	ug/kg	SW-846/8270		
Nitrobenzene	ND	330	ug/kg	SW-846/8270		
2-Nitrophenol	ND	330	ug/kg	SW-846/8270		
4-Nitrophenol	ND	825	ug/kg	SW-846/8270		
N-Nitrosodiphenylamine	ND	330	ug/kg	SW-846/8270		
N-Nitrosodi-n-propylamine	ND	330	ug/kg	SW-846/8270		
Pentachlorophenol	ND	825	ug/kg	SW-846/8270		
Phenanthrene	6330	330	ug/kg	SW-846/8270		
Phenol	ND	330	ug/kg	SW-846/8270		
Pyrene	5260	330	ug/kg	SW-846/8270		
1,2,4-Trichlorobenzene	ND	330	ug/kg	SW-846/8270		
2,4,6-Trichlorophenol	ND	330	ug/kg	SW-846/8270		
2,4,5-Trichlorophenol	ND	825	ug/kg	SW-846/8270		
Semivolatile Organics Extraction	COMPLETE			SW-846 3550	05/25/94	CMG
Volatile Organic Contaminants		*1		SW-846/8240	05/31/94	MJH
Acetone	91	10	ug/kg	SW-846/8240		
Benzene	ND	10	ug/kg	SW-846/8240		
Bromodichloromethane	ND	10	ug/kg	SW-846/8240		
Bromoform	ND	10	ug/kg	SW-846/8240		
Bromomethane	ND	10	ug/kg	SW-846/8240		
2-Butanone (MEK)	ND	10	ug/kg	SW-846/8240		
Carbon disulfide	ND	10	ug/kg	SW-846/8240		
Carbon tetrachloride	ND	10	ug/kg	SW-846/8240		
Chlorobenzene	ND	10	ug/kg	SW-846/8240		
Chloroethane	ND	10	ug/kg	SW-846/8240		
Chloroform	ND	10	ug/kg	SW-846/8240		
Chloromethane	ND	10	ug/kg	SW-846/8240		
Dibromochloromethane	ND	10	ug/kg	SW-846/8240		
1,1-Dichloroethane	ND	10	ug/kg	SW-846/8240		
1,2-Dichloroethane	ND	10	ug/kg	SW-846/8240		
1,1-Dichloroethene	ND	10	ug/kg	SW-846/8240		
1,2-Dichloroethene (Total)	ND	10	ug/kg	SW-846/8240		
1,2-Dichloropropane	ND	10	ug/kg	SW-846/8240		
cis-1,3-Dichloropropene	ND	10	ug/kg	SW-846/8240		

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8877

WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942301 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SB-19-03-47
DATE SAMPLED.....: 05/17/94
TIME SAMPLED.....: 11:20
WORK DESCRIPTION...: DHA-RI

LABORATORY I.D...: 942301-0002
DATE RECEIVED....: 05/19/94
TIME RECEIVED....: 12:00
REMARKS.....: 10-15'

008878

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
trans-1,3-Dichloropropene	ND	10	ug/kg	SW-846/8240		
Ethylbenzene	59	10	ug/kg	SW-846/8240		
2-Hexanone	ND	10	ug/kg	SW-846/8240		
Methylene chloride	ND	10	ug/kg	SW-846/8240		
4-Methyl-2-pentanone	ND	10	ug/kg	SW-846/8240		
Styrene	ND	10	ug/kg	SW-846/8240		
1,1,2,2-Tetrachloroethane	ND	10	ug/kg	SW-846/8240		
Tetrachloroethene	ND	10	ug/kg	SW-846/8240		
Toluene	ND	10	ug/kg	SW-846/8240		
1,1,1-Trichloroethane	ND	10	ug/kg	SW-846/8240		
1,1,2-Trichloroethane	ND	10	ug/kg	SW-846/8240		
Trichloroethene	ND	10	ug/kg	SW-846/8240		
Total Xylenes	351	10	ug/kg	SW-846/8240		
Vinyl chloride	ND	10	ug/kg	SW-846/8240		

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942301 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SB-19-04-48
DATE SAMPLED.....: 05/17/94
TIME SAMPLED.....: 11:30
WORK DESCRIPTION...: DHA-RI

LABORATORY I.D...: 942301-0003
DATE RECEIVED....: 05/19/94
TIME RECEIVED....: 12:00
REMARKS.....: 15-17'

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Semi-volatile Organic Contaminants		*33		SW-846/8270	05/31/94	LLB
Acenaphthene	ND	330	ug/kg	SW-846/8270		
Acenaphthylene	ND	330	ug/kg	SW-846/8270		
Anthracene	ND	330	ug/kg	SW-846/8270		
Benzo(a)anthracene	ND	330	ug/kg	SW-846/8270		
Benzo(b)fluoranthene	ND	330	ug/kg	SW-846/8270		
Benzo(k)fluoranthene	ND	330	ug/kg	SW-846/8270		
Benzo(ghi)perylene	ND	330	ug/kg	SW-846/8270		
Benzo(a)pyrene	ND	330	ug/kg	SW-846/8270		
Bis(2-chloroethoxy)methane	ND	330	ug/kg	SW-846/8270		
Bis(2-chloroethyl)ether	ND	330	ug/kg	SW-846/8270		
Bis(2-chloroisopropyl)ether	ND	330	ug/kg	SW-846/8270		
Bis(2-ethylhexyl) phthalate	ND	330	ug/kg	SW-846/8270		
4-Bromophenyl phenyl ether	ND	330	ug/kg	SW-846/8270		
Butyl benzyl phthalate	ND	330	ug/kg	SW-846/8270		
Carbazole	ND	330	ug/kg	SW-846/8270		
4-Chloroaniline	ND	330	ug/kg	SW-846/8270		
4-Chloro-3-methylphenol	ND	330	ug/kg	SW-846/8270		
2-Chloronaphthalene	ND	330	ug/kg	SW-846/8270		
2-Chlorophenol	ND	330	ug/kg	SW-846/8270		
4-Chlorophenyl phenyl ether	ND	330	ug/kg	SW-846/8270		
Chrysene	ND	330	ug/kg	SW-846/8270		
2-Methylphenol	ND	330	ug/kg	SW-846/8270		
4-Methylphenol	ND	330	ug/kg	SW-846/8270		
Dibenzo(a,h)anthracene	ND	330	ug/kg	SW-846/8270		
Dibenzofuran	ND	330	ug/kg	SW-846/8270		
Di-n-butyl phthalate	ND	330	ug/kg	SW-846/8270		
1,2-Dichlorobenzene	ND	330	ug/kg	SW-846/8270		
1,3-Dichlorobenzene	ND	330	ug/kg	SW-846/8270		
1,4-Dichlorobenzene	ND	330	ug/kg	SW-846/8270		
3,3'-Dichlorobenzidine	ND	330	ug/kg	SW-846/8270		
2,4-Dichlorophenol	ND	330	ug/kg	SW-846/8270		
Diethyl phthalate	ND	330	ug/kg	SW-846/8270		
2,4-Dimethylphenol	ND	330	ug/kg	SW-846/8270		
Dimethyl phthalate	ND	330	ug/kg	SW-846/8270		
2,4-Dinitrophenol	ND	825	ug/kg	SW-846/8270		
2,4-Dinitrotoluene	ND	330	ug/kg	SW-846/8270		
2,6-Dinitrotoluene	ND	330	ug/kg	SW-846/8270		
Di-n-octyl phthalate	ND	330	ug/kg	SW-846/8270		
Fluoranthene	ND	330	ug/kg	SW-846/8270		
Fluorene	ND	330	ug/kg	SW-846/8270		
Hexachlorobenzene	ND	330	ug/kg	SW-846/8270		
Hexachlorobutadiene	ND	330	ug/kg	SW-846/8270		
Hexachlorocyclopentadiene	ND	330	ug/kg	SW-846/8270		

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8879

WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942301 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SB-19-04-48
DATE SAMPLED.....: 05/17/94
TIME SAMPLED.....: 11:30
WORK DESCRIPTION...: DHA-RI

LABORATORY I.D...: 942301-0003
DATE RECEIVED....: 05/19/94
TIME RECEIVED....: 12:00
REMARKS.....: 15-17'

008880

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Hexachloroethane	ND	330	ug/kg	SW-846/8270		
Indenol(1,2,3-cd)pyrene	ND	330	ug/kg	SW-846/8270		
Isophorone	ND	330	ug/kg	SW-846/8270		
2-Methyl-4,6-dinitrophenol	ND	825	ug/kg	SW-846/8270		
2-Methylnaphthalene	ND	330	ug/kg	SW-846/8270		
Naphthalene	ND	330	ug/kg	SW-846/8270		
2-Nitroaniline	ND	825	ug/kg	SW-846/8270		
3-Nitroaniline	ND	825	ug/kg	SW-846/8270		
4-Nitroaniline	ND	825	ug/kg	SW-846/8270		
Nitrobenzene	ND	330	ug/kg	SW-846/8270		
2-Nitrophenol	ND	330	ug/kg	SW-846/8270		
4-Nitrophenol	ND	825	ug/kg	SW-846/8270		
N-Nitrosodiphenylamine	ND	330	ug/kg	SW-846/8270		
N-Nitrosodi-n-propylamine	ND	330	ug/kg	SW-846/8270		
Pentachlorophenol	ND	825	ug/kg	SW-846/8270		
Phenanthrene	ND	330	ug/kg	SW-846/8270		
Phenol	ND	330	ug/kg	SW-846/8270		
Pyrene	ND	330	ug/kg	SW-846/8270		
1,2,4-Trichlorobenzene	ND	330	ug/kg	SW-846/8270		
2,4,6-Trichlorophenol	ND	330	ug/kg	SW-846/8270		
2,4,5-Trichlorophenol	ND	825	ug/kg	SW-846/8270		
Semivolatile Organics Extraction	COMPLETE			SW-846 3550	05/25/94	CMG
Volatile Organic Contaminants		*1		SW-846/8240	05/31/94	MJH
Acetone	53	10	ug/kg	SW-846/8240		
Benzene	ND	10	ug/kg	SW-846/8240		
Bromodichloromethane	ND	10	ug/kg	SW-846/8240		
Bromoform	ND	10	ug/kg	SW-846/8240		
Bromomethane	ND	10	ug/kg	SW-846/8240		
2-Butanone (MEK)	ND	10	ug/kg	SW-846/8240		
Carbon disulfide	ND	10	ug/kg	SW-846/8240		
Carbon tetrachloride	ND	10	ug/kg	SW-846/8240		
Chlorobenzene	ND	10	ug/kg	SW-846/8240		
Chloroethane	ND	10	ug/kg	SW-846/8240		
Chloroform	ND	10	ug/kg	SW-846/8240		
Chloromethane	ND	10	ug/kg	SW-846/8240		
Dibromochloromethane	ND	10	ug/kg	SW-846/8240		
1,1-Dichloroethane	ND	10	ug/kg	SW-846/8240		
1,2-Dichloroethane	ND	10	ug/kg	SW-846/8240		
1,1-Dichloroethene	ND	10	ug/kg	SW-846/8240		
1,2-Dichloroethene (Total)	ND	10	ug/kg	SW-846/8240		
1,2-Dichloropropane	ND	10	ug/kg	SW-846/8240		
cis-1,3-Dichloropropene	ND	10	ug/kg	SW-846/8240		

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8880

WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942301 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SB-19-04-48
DATE SAMPLED.....: 05/17/94
TIME SAMPLED.....: 11:30
WORK DESCRIPTION...: DHA-RI

LABORATORY I.D...: 942301-0003
DATE RECEIVED....: 05/19/94
TIME RECEIVED....: 12:00
REMARKS.....: 15-17'

008881

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
trans-1,3-Dichloropropene	ND	10	ug/kg	SW-846/8240		
Ethylbenzene	ND	10	ug/kg	SW-846/8240		
2-Hexanone	ND	10	ug/kg	SW-846/8240		
Methylene chloride	ND	10	ug/kg	SW-846/8240		
4-Methyl-2-pentanone	ND	10	ug/kg	SW-846/8240		
Styrene	ND	10	ug/kg	SW-846/8240		
1,1,2,2-Tetrachloroethane	ND	10	ug/kg	SW-846/8240		
Tetrachloroethene	ND	10	ug/kg	SW-846/8240		
Toluene	ND	10	ug/kg	SW-846/8240		
1,1,1-Trichloroethane	ND	10	ug/kg	SW-846/8240		
1,1,2-Trichloroethane	ND	10	ug/kg	SW-846/8240		
Trichloroethene	ND	10	ug/kg	SW-846/8240		
Total Xylenes	ND	10	ug/kg	SW-846/8240		
Vinyl chloride	ND	10	ug/kg	SW-846/8240		

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WESTERN ATLAS

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LABORATORY TESTS RESULTS

07/21/94

JOB NUMBER: 942301 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SB-20-02-50
DATE SAMPLED.....: 05/17/94
TIME SAMPLED.....: 13:55
WORK DESCRIPTION...: DHA-RI

LABORATORY I.D...: 942301-0004
DATE RECEIVED....: 05/19/94
TIME RECEIVED....: 12:00
REMARKS.....:

008882

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Semi-volatile Organic Contaminants		*33		SW-846/8270	05/31/94	LLB
Acenaphthene	ND	330	ug/kg	SW-846/8270		
Acenaphthylene	ND	330	ug/kg	SW-846/8270		
Anthracene	ND	330	ug/kg	SW-846/8270		
Benzo(a)anthracene	ND	330	ug/kg	SW-846/8270		
Benzo(b)fluoranthene	701	330	ug/kg	SW-846/8270		
Benzo(k)fluoranthene	ND	330	ug/kg	SW-846/8270		
Benzo(ghi)perylene	ND	330	ug/kg	SW-846/8270		
Benzo(a)pyrene	ND	330	ug/kg	SW-846/8270		
Bis(2-chloroethoxy)methane	ND	330	ug/kg	SW-846/8270		
Bis(2-chloroethyl)ether	ND	330	ug/kg	SW-846/8270		
Bis(2-chloroisopropyl)ether	ND	330	ug/kg	SW-846/8270		
Bis(2-ethylhexyl) phthalate	ND	330	ug/kg	SW-846/8270		
4-Bromophenyl phenyl ether	ND	330	ug/kg	SW-846/8270		
Butyl benzyl phthalate	ND	330	ug/kg	SW-846/8270		
Carbazole	ND	330	ug/kg	SW-846/8270		
4-Chloroaniline	ND	330	ug/kg	SW-846/8270		
4-Chloro-3-methylphenol	ND	330	ug/kg	SW-846/8270		
2-Chloronaphthalene	ND	330	ug/kg	SW-846/8270		
2-Chlorophenol	ND	330	ug/kg	SW-846/8270		
4-Chlorophenyl phenyl ether	ND	330	ug/kg	SW-846/8270		
Chrysene	513	330	ug/kg	SW-846/8270		
2-Methylphenol	ND	330	ug/kg	SW-846/8270		
4-Methylphenol	ND	330	ug/kg	SW-846/8270		
Dibenzo(a,h)anthracene	ND	330	ug/kg	SW-846/8270		
Dibenzofuran	ND	330	ug/kg	SW-846/8270		
Di-n-butyl phthalate	ND	330	ug/kg	SW-846/8270		
1,2-Dichlorobenzene	ND	330	ug/kg	SW-846/8270		
1,3-Dichlorobenzene	ND	330	ug/kg	SW-846/8270		
1,4-Dichlorobenzene	ND	330	ug/kg	SW-846/8270		
3,3'-Dichlorobenzidine	ND	330	ug/kg	SW-846/8270		
2,4-Dichlorophenol	ND	330	ug/kg	SW-846/8270		
Diethyl phthalate	ND	330	ug/kg	SW-846/8270		
2,4-Dimethylphenol	ND	330	ug/kg	SW-846/8270		
Dimethyl phthalate	ND	330	ug/kg	SW-846/8270		
2,4-Dinitrophenol	ND	825	ug/kg	SW-846/8270		
2,4-Dinitrotoluene	ND	330	ug/kg	SW-846/8270		
2,6-Dinitrotoluene	ND	330	ug/kg	SW-846/8270		
Di-n-octyl phthalate	ND	330	ug/kg	SW-846/8270		
Fluoranthene	453	330	ug/kg	SW-846/8270		
Fluorene	ND	330	ug/kg	SW-846/8270		
Hexachlorobenzene	ND	330	ug/kg	SW-846/8270		
Hexachlorobutadiene	ND	330	ug/kg	SW-846/8270		
Hexachlorocyclopentadiene	ND	330	ug/kg	SW-846/8270		

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8882

WESTERN ATLAS

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LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942301 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SB-20-02-50
DATE SAMPLED.....: 05/17/94
TIME SAMPLED.....: 13:55
WORK DESCRIPTION...: DHA-RI

LABORATORY I.D...: 942301-0004
DATE RECEIVED....: 05/19/94
TIME RECEIVED....: 12:00
REMARKS.....:

008883

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Hexachloroethane	ND	330	ug/kg	SW-846/8270		
Indenol(1,2,3-cd)pyrene	ND	330	ug/kg	SW-846/8270		
Isophorone	ND	330	ug/kg	SW-846/8270		
2-Methyl-4,6-dinitrophenol	ND	825	ug/kg	SW-846/8270		
2-Methylnaphthalene	ND	330	ug/kg	SW-846/8270		
Naphthalene	ND	330	ug/kg	SW-846/8270		
2-Nitroaniline	ND	825	ug/kg	SW-846/8270		
3-Nitroaniline	ND	825	ug/kg	SW-846/8270		
4-Nitroaniline	ND	825	ug/kg	SW-846/8270		
Nitrobenzene	ND	330	ug/kg	SW-846/8270		
2-Nitrophenol	ND	330	ug/kg	SW-846/8270		
4-Nitrophenol	ND	825	ug/kg	SW-846/8270		
N-Nitrosodiphenylamine	ND	330	ug/kg	SW-846/8270		
N-Nitrosodi-n-propylamine	ND	330	ug/kg	SW-846/8270		
Pentachlorophenol	ND	825	ug/kg	SW-846/8270		
Phenanthrene	ND	330	ug/kg	SW-846/8270		
Phenol	ND	330	ug/kg	SW-846/8270		
Pyrene	456	330	ug/kg	SW-846/8270		
1,2,4-Trichlorobenzene	ND	330	ug/kg	SW-846/8270		
2,4,6-Trichlorophenol	ND	330	ug/kg	SW-846/8270		
2,4,5-Trichlorophenol	ND	825	ug/kg	SW-846/8270		
Semivolatile Organics Extraction	COMPLETE			SW-846 3550	05/25/94	CMG
Volatile Organic Contaminants		*1		SW-846/8240	05/31/94	MJH
Acetone	224	10	ug/kg	SW-846/8240		
Benzene	ND	10	ug/kg	SW-846/8240		
Bromodichloromethane	ND	10	ug/kg	SW-846/8240		
Bromoform	ND	10	ug/kg	SW-846/8240		
Bromomethane	ND	10	ug/kg	SW-846/8240		
2-Butanone (MEK)	ND	10	ug/kg	SW-846/8240		
Carbon disulfide	ND	10	ug/kg	SW-846/8240		
Carbon tetrachloride	ND	10	ug/kg	SW-846/8240		
Chlorobenzene	ND	10	ug/kg	SW-846/8240		
Chloroethane	ND	10	ug/kg	SW-846/8240		
Chloroform	ND	10	ug/kg	SW-846/8240		
Chloromethane	ND	10	ug/kg	SW-846/8240		
Dibromochloromethane	ND	10	ug/kg	SW-846/8240		
1,1-Dichloroethane	ND	10	ug/kg	SW-846/8240		
1,2-Dichloroethane	ND	10	ug/kg	SW-846/8240		
1,1-Dichloroethene	ND	10	ug/kg	SW-846/8240		
1,2-Dichloroethene (Total)	ND	10	ug/kg	SW-846/8240		
1,2-Dichloropropane	ND	10	ug/kg	SW-846/8240		
cis-1,3-Dichloropropene	ND	10	ug/kg	SW-846/8240		

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8883

WESTERN ATLAS

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LABORATORY TESTS RESULTS

07/21/94

JOB NUMBER: 942301 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SB-20-02-50
DATE SAMPLED.....: 05/17/94
TIME SAMPLED.....: 13:55
WORK DESCRIPTION...: DHA-RI

LABORATORY I.D...: 942301-0004
DATE RECEIVED....: 05/19/94
TIME RECEIVED....: 12:00
REMARKS.....:

008884

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
trans-1,3-Dichloropropene	ND	10	ug/kg	SW-846/8240		
Ethylbenzene	ND	10	ug/kg	SW-846/8240		
2-Hexanone	ND	10	ug/kg	SW-846/8240		
Methylene chloride	32	10	ug/kg	SW-846/8240		
4-Methyl-2-pentanone	ND	10	ug/kg	SW-846/8240		
Styrene	ND	10	ug/kg	SW-846/8240		
1,1,2,2-Tetrachloroethane	ND	10	ug/kg	SW-846/8240		
Tetrachloroethene	ND	10	ug/kg	SW-846/8240		
Toluene	ND	10	ug/kg	SW-846/8240		
1,1,1-Trichloroethane	ND	10	ug/kg	SW-846/8240		
1,1,2-Trichloroethane	ND	10	ug/kg	SW-846/8240		
Trichloroethene	ND	10	ug/kg	SW-846/8240		
Total Xylenes	ND	10	ug/kg	SW-846/8240		
Vinyl chloride	ND	10	ug/kg	SW-846/8240		

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942301 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SW-02-37
DATE SAMPLED.....: 05/16/94
TIME SAMPLED.....: 15:30
WORK DESCRIPTION...: DHA-RI

LABORATORY I.D...: 942301-0005
DATE RECEIVED....: 05/19/94
TIME RECEIVED....: 12:00
REMARKS.....:

008885

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Semi-volatile Organic Contaminants		*1		SW-846/8270	05/31/94	LLB
Acenaphthene	ND	10	ug/L	SW-846/8270		
Acenaphthylene	ND	10	ug/L	SW-846/8270		
Anthracene	ND	10	ug/L	SW-846/8270		
Benzo(a)anthracene	ND	10	ug/L	SW-846/8270		
Benzo(b)fluoranthene	ND	10	ug/L	SW-846/8270		
Benzo(k)fluoranthene	ND	10	ug/L	SW-846/8270		
Benzo(ghi)perylene	ND	10	ug/L	SW-846/8270		
Benzo(a)pyrene	ND	10	ug/L	SW-846/8270		
Bis(2-chloroethoxy)methane	ND	10	ug/L	SW-846/8270		
Bis(2-chloroethyl)ether	ND	10	ug/L	SW-846/8270		
Bis(2-chloroisopropyl)ether	ND	10	ug/L	SW-846/8270		
Bis(2-ethylhexyl) phthalate	ND	10	ug/L	SW-846/8270		
4-Bromophenyl phenyl ether	ND	10	ug/L	SW-846/8270		
Butyl benzyl phthalate	ND	10	ug/L	SW-846/8270		
Carbazole	ND	10	ug/L	SW-846/8270		
4-Chloroaniline	ND	10	ug/L	SW-846/8270		
4-Chloro-3-methylphenol	ND	10	ug/L	SW-846/8270		
2-Chloronaphthalene	ND	10	ug/L	SW-846/8270		
2-Chlorophenol	ND	10	ug/L	SW-846/8270		
4-Chlorophenyl phenyl ether	ND	10	ug/L	SW-846/8270		
Chrysene	ND	10	ug/L	SW-846/8270		
2-Methylphenol	ND	10	ug/L	SW-846/8270		
4-Methylphenol	ND	10	ug/L	SW-846/8270		
Dibenzo(a,h)anthracene	ND	10	ug/L	SW-846/8270		
Dibenzofuran	ND	10	ug/L	SW-846/8270		
Di-n-butyl phthalate	ND	10	ug/L	SW-846/8270		
1,2-Dichlorobenzene	ND	10	ug/L	SW-846/8270		
1,3-Dichlorobenzene	ND	10	ug/L	SW-846/8270		
1,4-Dichlorobenzene	ND	10	ug/L	SW-846/8270		
3,3'-Dichlorobenzidine	ND	10	ug/L	SW-846/8270		
2,4-Dichlorophenol	ND	10	ug/L	SW-846/8270		
Diethyl phthalate	ND	10	ug/L	SW-846/8270		
2,4-Dimethylphenol	ND	10	ug/L	SW-846/8270		
Dimethyl phthalate	ND	10	ug/L	SW-846/8270		
2,4-Dinitrophenol	ND	25	ug/L	SW-846/8270		
2,4-Dinitrotoluene	ND	10	ug/L	SW-846/8270		
2,6-Dinitrotoluene	ND	10	ug/L	SW-846/8270		
Di-n-octyl phthalate	15	10	ug/L	SW-846/8270		
Fluoranthene	ND	10	ug/L	SW-846/8270		
Fluorene	ND	10	ug/L	SW-846/8270		
Hexachlorobenzene	ND	10	ug/L	SW-846/8270		
Hexachlorobutadiene	ND	10	ug/L	SW-846/8270		
Hexachlorocyclopentadiene	ND	10	ug/L	SW-846/8270		

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942301 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SW-02-37
DATE SAMPLED.....: 05/16/94
TIME SAMPLED.....: 15:30
WORK DESCRIPTION...: DHA-RI

LABORATORY I.D...: 942301-0005
DATE RECEIVED....: 05/19/94
TIME RECEIVED....: 12:00
REMARKS.....:

008886

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Hexachloroethane	ND	10	ug/L	SW-846/8270		
Indenol(1,2,3-cd)pyrene	ND	10	ug/L	SW-846/8270		
Isophorone	ND	10	ug/L	SW-846/8270		
2-Methyl-4,6-dinitrophenol	ND	25	ug/L	SW-846/8270		
2-Methylnaphthalene	ND	10	ug/L	SW-846/8270		
Naphthalene	ND	10	ug/L	SW-846/8270		
2-Nitroaniline	ND	25	ug/L	SW-846/8270		
3-Nitroaniline	ND	25	ug/L	SW-846/8270		
4-Nitroaniline	ND	25	ug/L	SW-846/8270		
Nitrobenzene	ND	10	ug/L	SW-846/8270		
2-Nitrophenol	ND	10	ug/L	SW-846/8270		
4-Nitrophenol	ND	25	ug/L	SW-846/8270		
N-Nitrosodiphenylamine	ND	10	ug/L	SW-846/8270		
N-Nitrosodi-n-propylamine	ND	10	ug/L	SW-846/8270		
Pentachlorophenol	ND	25	ug/L	SW-846/8270		
Phenanthrene	ND	10	ug/L	SW-846/8270		
Phenol	ND	10	ug/L	SW-846/8270		
Pyrene	ND	10	ug/L	SW-846/8270		
1,2,4-Trichlorobenzene	ND	10	ug/L	SW-846/8270		
2,4,6-Trichlorophenol	ND	10	ug/L	SW-846/8270		
2,4,5-Trichlorophenol	ND	25	ug/L	SW-846/8270		
Semivolatile Organics Extraction	COMPLETE			SW-846 3510	05/23/94	CMG
Volatile Organic Contaminants		*1		SW-846/8240	05/23/94	MJH
Acetone	45	10	ug/L	SW-846/8240		
Benzene	ND	10	ug/L	SW-846/8240		
Bromodichloromethane	ND	10	ug/L	SW-846/8240		
Bromoform	ND	10	ug/L	SW-846/8240		
Bromomethane	ND	10	ug/L	SW-846/8240		
2-Butanone (MEK)	ND	10	ug/L	SW-846/8240		
Carbon disulfide	ND	10	ug/L	SW-846/8240		
Carbon tetrachloride	ND	10	ug/L	SW-846/8240		
Chlorobenzene	ND	10	ug/L	SW-846/8240		
Chloroethane	ND	10	ug/L	SW-846/8240		
Chloroform	ND	10	ug/L	SW-846/8240		
Chloromethane	ND	10	ug/L	SW-846/8240		
Dibromochloromethane	ND	10	ug/L	SW-846/8240		
1,1-Dichloroethane	ND	10	ug/L	SW-846/8240		
1,2-Dichloroethane	ND	10	ug/L	SW-846/8240		
1,1-Dichloroethene	ND	10	ug/L	SW-846/8240		
1,2-Dichloroethene (Total)	ND	10	ug/L	SW-846/8240		
1,2-Dichloropropane	ND	10	ug/L	SW-846/8240		
cis-1,3-Dichloropropene	ND	10	ug/L	SW-846/8240		

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942301 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SW-02-37
DATE SAMPLED.....: 05/16/94
TIME SAMPLED.....: 15:30
WORK DESCRIPTION...: DHA-RI

LABORATORY I.D...: 942301-0005
DATE RECEIVED....: 05/19/94
TIME RECEIVED....: 12:00
REMARKS.....:

008887

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
trans-1,3-Dichloropropene	ND	10	ug/L	SW-846/8240		
Ethylbenzene	ND	10	ug/L	SW-846/8240		
2-Hexanone	ND	10	ug/L	SW-846/8240		
Methylene chloride	ND	10	ug/L	SW-846/8240		
4-Methyl-2-pentanone	ND	10	ug/L	SW-846/8240		
Styrene	ND	10	ug/L	SW-846/8240		
1,1,2,2-Tetrachloroethane	ND	10	ug/L	SW-846/8240		
Tetrachloroethene	ND	10	ug/L	SW-846/8240		
Toluene	ND	10	ug/L	SW-846/8240		
1,1,1-Trichloroethane	ND	10	ug/L	SW-846/8240		
1,1,2-Trichloroethane	ND	10	ug/L	SW-846/8240		
Trichloroethene	ND	10	ug/L	SW-846/8240		
Total Xylenes	ND	10	ug/L	SW-846/8240		
Vinyl chloride	ND	10	ug/L	SW-846/8240		

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WESTERN ATLAS

Core Laboratories

QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942301 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Semi-volatile Organic Contaminants DATE ANALYZED: 05/31/94 TIME ANALYZED: 14:58 METHOD: SW-846/8270 QC NUMBER:978153

BLANKS

TEST DESCRIPTION	ANALY	SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Phenol	MB		SON052594S	1	<10	10	ug/L
2-Chlorophenol	MB		SON052594S	1	<10	10	ug/L
1,4-Dichlorobenzene	MB		SON052594B	1	<10	10	ug/L
N-Nitrosodi-n-propylamine	MB		SON052594S	1	<10	10	ug/L
1,2,4-Trichlorobenzene	MB		SON052594S	1	<10	10	ug/L
4-Chloro-3-methylphenol	MB		SON052594S	1	<10	10	ug/L
Acenaphthene	MB		SON052594S	1	<10	10	ug/L
4-Nitrophenol	MB		SON052594S	1	<25	25	ug/L
2,4-Dinitrotoluene	MB		SON052594S	1	<10	10	ug/L
Pentachlorophenol	MB		SON052594S	1	<25	25	ug/L
Pyrene	MB		SON052594S	1	<10	10	ug/L
Acenaphthylene	MB		SON052594S	1	<10	10	ug/L
Anthracene	MB		SON052594S	1	<10	10	ug/L
Benzo(a)anthracene	MB		SON052594S	1	<10	10	ug/L
Benzo(b)fluoranthene	MB		SON052594S	1	<10	10	ug/L
Benzo(k)fluoranthene	MB		SON052594S	1	<10	10	ug/L
o(ghi)perylene	MB		SON052594S	1	<10	10	ug/L
o(a)pyrene	MB		SON052594S	1	<10	10	ug/L
Bis(2-chloroethoxy)methane	MB		SON052594S	1	<10	10	ug/L
Bis(2-chloroethyl)ether	MB		SON052594S	1	<10	10	ug/L
Bis(2-chloroisopropyl)ether	MB		SON052594S	1	<10	10	ug/L
Bis(2-ethylhexyl) phthalate	MB		SON052594S	1	<10	10	ug/L
4-Bromophenyl phenyl ether	MB		SON052594S	1	<10	10	ug/L
Butyl benzyl phthalate	MB		SON052594S	1	<10	10	ug/L
Carbazole	MB		SON052594S	1	<10	10	ug/L
4-Chloroaniline	MB		SON052594S	1	<10	10	ug/L
2-Chloronaphthalene	MB		SON052594S	1	<10	10	ug/L
4-Chlorophenyl phenyl ether	MB		SON052594S	1	<10	10	ug/L
Chrysene	MB		SON052594S	1	<10	10	ug/L
2-Methylphenol	MB		SON052594S	1	<10	10	ug/L
4-Methylphenol	MB		SON052594S	1	<10	10	ug/L
Dibenzo(a,h)anthracene	MB		SON052594S	1	<10	10	ug/L
Dibenzofuran	MB		SON052594S	1	<10	10	ug/L
Di-n-butyl phthalate	MB		SON052594S	1	<10	10	ug/L
1,2-Dichlorobenzene	MB		SON052594S	1	<10	10	ug/L
1,3-Dichlorobenzene	MB		SON052594S	1	<10	10	ug/L
3,3'-Dichlorobenzidine	MB		SON052594S	1	<10	10	ug/L
2,4-Dichlorophenol	MB		SON052594S	1	<10	10	ug/L
Diethyl phthalate	MB		SON052594S	1	<10	10	ug/L
2,4-Dimethylphenol	MB		SON052594S	1	<10	10	ug/L
Dimethyl phthalate	MB		SON052594S	1	<10	10	ug/L
2,4-Dinitrophenol	MB		SON052594S	1	<25	25	ug/L
2,6-Dinitrotoluene	MB		SON052594S	1	<10	10	ug/L
Di-n-octyl phthalate	MB		SON052594S	1	<10	10	ug/L
Fluoranthene	MB		SON052594S	1	<10	10	ug/L
Fluorene	MB		SON052594S	1	<10	10	ug/L

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8888

WESTERN ATLAS

Core Laboratories

QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942301 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Semi-volatile Organic Contaminants DATE ANALYZED: 05/31/94 TIME ANALYZED: 14:58 METHOD: SW-846/8270 QC NUMBER:978153

BLANKS

TEST DESCRIPTION	ANALY SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Hexachlorobenzene	MB	SON052594S	1	<10	10	ug/L
Hexachlorobutadiene	MB	SON052594S	1	<10	10	ug/L
Hexachlorocyclopentadiene	MB	SON052594S	1	<10	10	ug/L
Hexachloroethane	MB	SON052594S	1	<10	10	ug/L
Indenol(1,2,3-cd)pyrene	MB	SON052594S	1	<10	10	ug/L
Isophorone	MB	SON052594S	1	<10	10	ug/L
2-Methyl-4,6-dinitrophenol	MB	SON052594S	1	<25	25	ug/L
2-Methylnaphthalene	MB	SON052594S	1	<10	10	ug/L
Naphthalene	MB	SON052594S	1	<10	10	ug/L
2-Nitroaniline	MB	SON052594S	1	<25	25	ug/L
3-Nitroaniline	MB	SON052594S	1	<25	25	ug/L
4-Nitroaniline	MB	SON052594S	1	<25	25	ug/L
Nitrobenzene	MB	SON052594S	1	<10	10	ug/L
2-Nitrophenol	MB	SON052594S	1	<10	10	ug/L
N-Nitrosodiphenylamine	MB	SON052594S	1	<10	10	ug/L
Phenanthrene	MB	SON052594S	1	<10	10	ug/L
6-Trichlorophenol	MB	SON052594S	1	<10	10	ug/L
,5-Trichlorophenol	MB	SON052594S	1	<25	25	ug/L

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WESTERN ATLAS

Core Laboratories

QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942301 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Semi-volatile Organic Contaminants DATE ANALYZED: 05/31/94 TIME ANALYZED: 14:58 METHOD: SW-846/8270 QC NUMBER:978153

REFERENCE STANDARDS

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	TRUE VALUE	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
2-Fluorophenol	SS	942184-003	1	118	200	59	10	ug/L
	SS	942184-005	1	78	200	39	10	ug/L
	SS	942184-006	1	139	200	70	10	ug/L
	SS	942301-001	1	117	200	58	10	ug/L
	SS	942301-002	1	139	200	70	10	ug/L
	SS	942301-003	1	130	200	65	10	ug/L
	SS	942301-004	1	97	200	48	10	ug/L
	SS	942349-003	1	140	200	70	10	ug/L
Phenol-d5	SS	942184-003	1	111	200	56	10	ug/L
	SS	942184-005	1	83	200	42	10	ug/L
	SS	942184-006	1	137	200	68	10	ug/L
	SS	942301-001	1	103	200	52	10	ug/L
	SS	942301-002	1	136	200	68	10	ug/L
	SS	942301-003	1	120	200	60	10	ug/L
	SS	942301-004	1	94	200	47	10	ug/L
	SS	942349-003	1	138	200	69	10	ug/L
obenzene-d5	SS	942184-003	1	60	100	60	10	ug/L
	SS	942184-005	1	39	100	39	10	ug/L
	SS	942184-006	1	69	100	69	10	ug/L
	SS	942301-001	1	55	100	55	10	ug/L
	SS	942301-002	1	76	100	76	10	ug/L
	SS	942301-003	1	64	100	64	10	ug/L
	SS	942301-004	1	50	100	50	10	ug/L
	SS	942349-003	1	72	100	72	10	ug/L
2-Fluorobiphenyl	SS	942184-003	1	60	100	60	10	ug/L
	SS	942184-005	1	46	100	46	10	ug/L
	SS	942184-006	1	69	100	69	10	ug/L
	SS	942301-001	1	51	100	51	10	ug/L
	SS	942301-002	1	58	100	58	10	ug/L
	SS	942301-003	1	62	100	62	10	ug/L
	SS	942301-004	1	50	100	50	10	ug/L
	SS	942349-003	1	67	100	67	10	ug/L
2,4,6-tribromophenol	SS	942184-003	1	116	200	58	10	ug/L
	SS	942184-005	1	91	200	46	10	ug/L
	SS	942184-006	1	130	200	65	10	ug/L
	SS	942301-001	1	91	200	46	10	ug/L
	SS	942301-002	1	115	200	57	10	ug/L
	SS	942301-003	1	119	200	60	10	ug/L
	SS	942301-004	1	103	200	52	10	ug/L
	SS	942349-003	1	152	200	76	10	ug/L
p-Terphenyl-d14	SS	942184-003	1	61	100	61	10	ug/L
	SS	942184-005	1	55	100	55	10	ug/L
	SS	942184-006	1	73	100	73	10	ug/L
	SS	942301-001	1	47	100	47	10	ug/L
	SS	942301-002	1	49	100	49	10	ug/L

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8890

WESTERN ATLAS

Core Laboratories

QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942301 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Semi-volatile Organic Contaminants DATE ANALYZED: 05/31/94 TIME ANALYZED: 14:58 METHOD: SW-846/8270 QC NUMBER:978153

REFERENCE STANDARDS

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	TRUE VALUE	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
	SS	942301-003	1	66	100	66	10	ug/L
	SS	942301-004	1	55	100	55	10	ug/L
	SS	942349-003	1	78	100	78	10	ug/L

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WESTERN ATLAS

Core Laboratories

QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942301 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Semi-volatile Organic Contaminants DATE ANALYZED: 05/31/94 TIME ANALYZED: 14:58 METHOD: SW-846/8270 QC NUMBER:978153

MATRIX SPIKES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Phenol	MS	942301-001	1	67	0	100	67	10	ug/L
2-Chlorophenol	MS	942301-001	1	66	0	100	66	10	ug/L
1,4-Dichlorobenzene	MS	942301-001	1	57	0	100	57	10	ug/L
N-Nitrosodi-n-propylamine	MS	942301-001	1	63	0	100	63	10	ug/L
1,2,4-Trichlorobenzene	MS	942301-001	1	60	0	100	60	10	ug/L
4-Chloro-3-methylphenol	MS	942301-001	1	66	0	100	66	10	ug/L
Acenaphthene	MS	942301-001	1	56	0	100	56	10	ug/L
4-Nitrophenol	MS	942301-001	1	56	0	100	56	25	ug/L
2,4-Dinitrotoluene	MS	942301-001	1	51	0	100	51	10	ug/L
Pentachlorophenol	MS	942301-001	1	33	0	100	33	25	ug/L
Pyrene	MS	942301-001	1	54	0	100	54	10	ug/L

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8892

WESTERN ATLAS

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QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942301 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Semi-volatile Organic Contaminants DATE ANALYZED: 05/31/94 TIME ANALYZED: 14:58 METHOD: SW-846/8270 QC NUMBER:978153

DUPLICATES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (|A-B|)	DETECTION LIMITS	UNITS OF MEASURE
Phenol	MSD	942301-001	1	67	78	15	10	ug/L
2-Chlorophenol	MSD	942301-001	1	66	74	11	10	ug/L
1,4-Dichlorobenzene	MSD	942301-001	1	57	56	2	10	ug/L
N-Nitrosodi-n-propylamine	MSD	942301-001	1	63	70	11	10	ug/L
1,2,4-Trichlorobenzene	MSD	942301-001	1	60	57	5	10	ug/L
4-Chloro-3-methylphenol	MSD	942301-001	1	66	70	6	10	ug/L
Acenaphthene	MSD	942301-001	1	58	58	0	10	ug/L
4-Nitrophenol	MSD	942301-001	1	56	62	6	25	ug/L
2,4-Dinitrotoluene	MSD	942301-001	1	51	53	4	10	ug/L
Pentachlorophenol	MSD	942301-001	1	33	19	14	25	ug/L
Pyrene	MSD	942301-001	1	54	57	5	10	ug/L

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QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942301 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Semi-volatile Organic Contaminants DATE ANALYZED: 05/31/94 TIME ANALYZED: 15:20 METHOD: SW-846/8270 QC NUMBER:978156

BLANKS

TEST DESCRIPTION	ANALY	SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Phenol	MB		SEP052494	1	<10	10	ug/L
2-Chlorophenol	MB		SEP052494	1	<10	10	ug/L
1,4-Dichlorobenzene	MB		SEP052494	1	<10	10	ug/L
N-Nitrosodi-n-propylamine	MB		SEP052494	1	<10	10	ug/L
1,2,4-Trichlorobenzene	MB		SEP052494	1	<10	10	ug/L
4-Chloro-3-methylphenol	MB		SEP052494	1	<10	10	ug/L
Acenaphthene	MB		SEP052494	1	<10	10	ug/L
4-Nitrophenol	MB		SEP052494	1	<25	25	ug/L
2,4-Dinitrotoluene	MB		SEP052494	1	<10	10	ug/L
Pentachlorophenol	MB		SEP052494	1	<25	25	ug/L
Pyrene	MB		SEP052494	1	<10	10	ug/L
Acenaphthylene	MB		SEP052494	1	<10	10	ug/L
Anthracene	MB		SEP052494	1	<10	10	ug/L
Benzo(a)anthracene	MB		SEP052494	1	<10	10	ug/L
Benzo(b)fluoranthene	MB		SEP052494	1	<10	10	ug/L
Benzo(k)fluoranthene	MB		SEP052494	1	<10	10	ug/L
o(ghi)perylene	MB		SEP052494	1	<10	10	ug/L
o(a)pyrene	MB		SEP052494	1	<10	10	ug/L
Bis(2-chloroethoxy)methane	MB		SEP052494	1	<10	10	ug/L
Bis(2-chloroethyl)ether	MB		SEP052494	1	<10	10	ug/L
Bis(2-chloroisopropyl)ether	MB		SEP052494	1	<10	10	ug/L
Bis(2-ethylhexyl) phthalate	MB		SEP052494	1	<10	10	ug/L
4-Bromophenyl phenyl ether	MB		SEP052494	1	<10	10	ug/L
Butyl benzyl phthalate	MB		SEP052494	1	<10	10	ug/L
Carbazole	MB		SEP052494	1	<10	10	ug/L
4-Chloroaniline	MB		SEP052494	1	<10	10	ug/L
2-Chloronaphthalene	MB		SEP052494	1	<10	10	ug/L
4-Chlorophenyl phenyl ether	MB		SEP052494	1	<10	10	ug/L
Chrysene	MB		SEP052494	1	<10	10	ug/L
2-Methylphenol	MB		SEP052494	1	<10	10	ug/L
4-Methylphenol	MB		SEP052494	1	<10	10	ug/L
Dibenzo(a,h)anthracene	MB		SEP052494	1	<10	10	ug/L
Dibenzofuran	MB		SEP052494	1	<10	10	ug/L
Di-n-butyl phthalate	MB		SEP052494	1	<10	10	ug/L
1,2-Dichlorobenzene	MB		SEP052494	1	<10	10	ug/L
1,3-Dichlorobenzene	MB		SEP052494	1	<10	10	ug/L
3,3'-Dichlorobenzidine	MB		SEP052494	1	<10	10	ug/L
2,4-Dichlorophenol	MB		SEP052494	1	<10	10	ug/L
Diethyl phthalate	MB		SEP052494	1	<10	10	ug/L
2,4-Dimethylphenol	MB		SEP052494	1	<10	10	ug/L
Dimethyl phthalate	MB		SEP052494	1	<10	10	ug/L
2,4-Dinitrophenol	MB		SEP052494	1	<25	25	ug/L
2,6-Dinitrotoluene	MB		SEP052494	1	<10	10	ug/L
Di-n-octyl phthalate	MB		SEP052494	1	<10	10	ug/L
Fluoranthene	MB		SEP052494	1	<10	10	ug/L
Fluorene	MB		SEP052494	1	<10	10	ug/L

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QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942301 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Semi-volatile Organic Contaminants DATE ANALYZED: 05/31/94 TIME ANALYZED: 15:20 METHOD: SW-846/8270 QC NUMBER:978156

BLANKS

TEST DESCRIPTION	ANALY	SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Hexachlorobenzene	MB		SEP052494	1	<10	10	ug/L
Hexachlorobutadiene	MB		SEP052494	1	<10	10	ug/L
Hexachlorocyclopentadiene	MB		SEP052494	1	<10	10	ug/L
Hexachloroethane	MB		SEP052494	1	<10	10	ug/L
Indenol(1,2,3-cd)pyrene	MB		SEP052494	1	<10	10	ug/L
Isophorone	MB		SEP052494	1	<10	10	ug/L
2-Methyl-4,6-dinitrophenol	MB		SEP052494	1	<25	25	ug/L
2-Methylnaphthalene	MB		SEP052494	1	<10	10	ug/L
Naphthalene	MB		SEP052494	1	<10	10	ug/L
2-Nitroaniline	MB		SEP052494	1	<25	25	ug/L
3-Nitroaniline	MB		SEP052494	1	<25	25	ug/L
4-Nitroaniline	MB		SEP052494	1	<25	25	ug/L
Nitrobenzene	MB		SEP052494	1	<10	10	ug/L
2-Nitrophenol	MB		SEP052494	1	<10	10	ug/L
N-Nitrosodiphenylamine	MB		SEP052494	1	<10	10	ug/L
Phenanthrene	MB		SEP052494	1	<10	10	ug/L
6-Trichlorophenol	MB		SEP052494	1	<10	10	ug/L
5-Trichlorophenol	MB		SEP052494	1	<25	25	ug/L

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QUALITY CONTROL REPORT
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Semi-volatile Organic Contaminants DATE ANALYZED: 05/31/94 TIME ANALYZED: 15:20 METHOD: SW-846/8270 QC NUMBER:978156

REFERENCE STANDARDS

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	TRUE VALUE	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
2-Fluorophenol	SS	942301-005	1	92	200	46	10	ug/L
Phenol-d5	SS	942301-005	1	64	200	32	10	ug/L
Nitrobenzene-d5	SS	942301-005	1	87	100	87	10	ug/L
2-Fluorobiphenyl	SS	942301-005	1	85	100	85	10	ug/L
2,4,6-tribromophenol	SS	942301-005	1	139	200	70	10	ug/L
p-Terphenyl-d14	SS	942301-005	1	82	100	82	10	ug/L

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JOB NUMBER: 942301 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Semi-volatile Organic Contaminants DATE ANALYZED: 05/31/94 TIME ANALYZED: 15:20 METHOD: SW-846/8270 QC NUMBER:978156

MATRIX SPIKES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Phenol	MS	942041-001	1	72	0	100	72	10	ug/L
2-Chlorophenol	MS	942041-001	1	78	0	100	78	10	ug/L
1,4-Dichlorobenzene	MS	942041-001	1	63	0	100	63	10	ug/L
N-Nitrosodi-n-propylamine	MS	942041-001	1	76	0	100	76	10	ug/L
1,2,4-Trichlorobenzene	MS	942041-001	1	65	0	100	65	10	ug/L
4-Chloro-3-methylphenol	MS	942041-001	1	79	0	100	79	10	ug/L
Acenaphthene	MS	942041-001	1	71	0	100	71	10	ug/L
4-Nitrophenol	MS	942041-001	1	48	0	100	48	25	ug/L
2,4-Dinitrotoluene	MS	942041-001	1	71	0	100	71	10	ug/L
Pentachlorophenol	MS	942041-001	1	79	0	100	79	25	ug/L
Hexachlorobenzene	MS	942040-001	1	86	0	100	86	10	ug/L
Hexachlorobutadiene	MS	942040-001	1	63	0	100	63	10	ug/L
2,4,6-Trichlorophenol	MS	942040-001	1	87	0	100	87	10	ug/L
2,4,5-Trichlorophenol	MS	942040-001	1	83	0	100	83	25	ug/L

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JOB NUMBER: 942301 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Semi-volatile Organic Contaminants DATE ANALYZED: 05/31/94 TIME ANALYZED: 15:20 METHOD: SW-846/8270 QC NUMBER:978156

DUPLICATES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (|A-B|)	DETECTION LIMITS	UNITS OF MEASURE
Phenol	MSD	942041-001	1	72	85	17	10	ug/L
2-Chlorophenol	MSD	942041-001	1	78	85	9	10	ug/L
1,4-Dichlorobenzene	MSD	942041-001	1	63	73	15	10	ug/L
N-Nitrosodi-n-propylamine	MSD	942041-001	1	76	84	10	10	ug/L
1,2,4-Trichlorobenzene	MSD	942041-001	1	65	77	17	10	ug/L
4-Chloro-3-methylphenol	MSD	942041-001	1	79	92	15	10	ug/L
Acenaphthene	MSD	942041-001	1	71	82	14	10	ug/L
4-Nitrophenol	MSD	942041-001	1	48	59	11	25	ug/L
2,4-Dinitrotoluene	MSD	942041-001	1	71	79	11	10	ug/L
Pentachlorophenol	MSD	942041-001	1	79	86	7	25	ug/L
Hexachlorobenzene	MSD	942040-001	1	86	96	11	10	ug/L
Hexachlorobutadiene	MSD	942040-001	1	63	66	5	10	ug/L
2,4,6-Trichlorophenol	MSD	942040-001	1	87	91	4	10	ug/L
2,4,5-Trichlorophenol	MSD	942040-001	1	83	89	6	25	ug/L

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QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942301 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Volatile Organic Contaminants DATE ANALYZED: 05/31/94 TIME ANALYZED: 14:05 METHOD: SW-846/8240 QC NUMBER:978725

BLANKS

TEST DESCRIPTION	ANALY	SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Benzene	IB		GCMS053194	1	<10	10	ug/L
1,1-Dichloroethene	IB		GCMS053194	1	<10	10	ug/L
Trichloroethene	IB		GCMS053194	1	<10	10	ug/L
Toluene	IB		GCMS053194	1	<10	10	ug/L
Chlorobenzene	IB		GCMS053194	1	<10	10	ug/L
Acetone	IB		GCMS053194	1	<10	10	ug/L
Bromodichloromethane	IB		GCMS053194	1	<10	10	ug/L
Bromoform	IB		GCMS053194	1	<10	10	ug/L
Bromomethane	IB		GCMS053194	1	<10	10	ug/L
2-Butanone (MEK)	IB		GCMS053194	1	<10	10	ug/L
Carbon disulfide	IB		GCMS053194	1	<10	10	ug/L
Carbon tetrachloride	IB		GCMS053194	1	<10	10	ug/L
Chloroethane	IB		GCMS053194	1	<10	10	ug/L
Chloroform	IB		GCMS053194	1	<10	10	ug/L
Chloromethane	IB		GCMS053194	1	<10	10	ug/L
Dibromochloromethane	IB		GCMS053194	1	<10	10	ug/L
Dichloroethane	IB		GCMS053194	1	<10	10	ug/L
Dichloroethane	IB		GCMS053194	1	<10	10	ug/L
1,2-Dichloroethene (Total)	IB		GCMS053194	1	<10	10	ug/L
1,2-Dichloropropane	IB		GCMS053194	1	<10	10	ug/L
cis-1,3-Dichloropropene	IB		GCMS053194	1	<10	10	ug/L
trans-1,3-Dichloropropene	IB		GCMS053194	1	<10	10	ug/L
Ethylbenzene	IB		GCMS053194	1	<10	10	ug/L
2-Hexanone	IB		GCMS053194	1	<10	10	ug/L
Methylene chloride	IB		GCMS053194	1	<10	10	ug/L
4-Methyl-2-pentanone	IB		GCMS053194	1	<10	10	ug/L
Styrene	IB		GCMS053194	1	<10	10	ug/L
1,1,2,2-Tetrachloroethane	IB		GCMS053194	1	<10	10	ug/L
Tetrachloroethene	IB		GCMS053194	1	<10	10	ug/L
1,1,1-Trichloroethane	IB		GCMS053194	1	<10	10	ug/L
1,1,2-Trichloroethane	IB		GCMS053194	1	<10	10	ug/L
Total Xylenes	IB		GCMS053194	1	<10	10	ug/L
Vinyl chloride	IB		GCMS053194	1	<10	10	ug/L

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QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942301 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Volatile Organic Contaminants DATE ANALYZED: 05/31/94 TIME ANALYZED: 14:05 METHOD: SW-846/8240 QC NUMBER:978725

REFERENCE STANDARDS

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	TRUE VALUE	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
1,2-Dichloroethane-d4	SS	942301-01	1	44	50	88	10	ug/L
	SS	942301-02	1	45	50	90	10	ug/L
	SS	942301-03	1	44	50	88	10	ug/L
	SS	942301-04	1	48	50	96	10	ug/L
Toluene-d8	SS	942301-01	1	52	50	104	10	ug/L
	SS	942301-02	1	55	50	110	10	ug/L
	SS	942301-03	1	52	50	104	10	ug/L
	SS	942301-04	1	61	50	122	10	ug/L
Bromofluorobenzene	SS	942301-01	1	47	50	94	10	ug/L
	SS	942301-02	1	47	50	94	10	ug/L
	SS	942301-03	1	46	50	92	10	ug/L
	SS	942301-04	1	38	50	76	10	ug/L

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JOB NUMBER: 942301 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Volatile Organic Contaminants DATE ANALYZED: 05/31/94 TIME ANALYZED: 14:05 METHOD: SW-846/8240 QC NUMBER:978725

MATRIX SPIKES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Benzene	MS	942459-04	1	48	0	50	96	10	ug/L
1,1-Dichloroethene	MS	942459-04	1	41	0	50	82	10	ug/L
Trichloroethene	MS	942459-04	1	49	0	50	98	10	ug/L
Toluene	MS	942459-04	1	48	0	50	96	10	ug/L
Chlorobenzene	MS	942459-04	1	48	0	50	96	10	ug/L

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WESTERN ATLAS

Core Laboratories

QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942301 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Volatile Organic Contaminants DATE ANALYZED: 05/31/94 TIME ANALYZED: 14:05 METHOD: SW-846/8240 QC NUMBER:978725

DUPLICATES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (|A-B|)	DETECTION LIMITS	UNITS OF MEASURE
Benzene	MSD	942459-04	1	48	46	2	10	ug/L
1,1-Dichloroethene	MSD	942459-04	1	41	39	2	10	ug/L
Trichloroethene	MSD	942459-04	1	49	47	2	10	ug/L
Toluene	MSD	942459-04	1	48	46	2	10	ug/L
Chlorobenzene	MSD	942459-04	1	48	47	1	10	ug/L

3645 Beglis Parkway
Sulphur, LA 70663
(318) 583-4926

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WESTERN ATLAS

Core Laboratories

QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942301 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Volatile Organic Contaminants DATE ANALYZED: 05/23/94 TIME ANALYZED: 14:32 METHOD: SW-846/8240 QC NUMBER:978726

BLANKS

TEST DESCRIPTION	ANALY	SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Benzene	IB		GCMS052394	1	<10	10	ug/L
1,1-Dichloroethene	IB		GCMS052394	1	<10	10	ug/L
Trichloroethene	IB		GCMS052394	1	<10	10	ug/L
Toluene	IB		GCMS052394	1	<10	10	ug/L
Chlorobenzene	IB		GCMS052394	1	<10	10	ug/L
Acetone	IB		GCMS052394	1	<10	10	ug/L
Bromodichloromethane	IB		GCMS052394	1	<10	10	ug/L
Bromoform	IB		GCMS052394	1	<10	10	ug/L
Bromomethane	IB		GCMS052394	1	<10	10	ug/L
2-Butanone (MEK)	IB		GCMS052394	1	<10	10	ug/L
Carbon disulfide	IB		GCMS052394	1	<10	10	ug/L
Carbon tetrachloride	IB		GCMS052394	1	<10	10	ug/L
Chloroethane	IB		GCMS052394	1	<10	10	ug/L
Chloroform	IB		GCMS052394	1	<10	10	ug/L
Chloromethane	IB		GCMS052394	1	<10	10	ug/L
Dibromochloromethane	IB		GCMS052394	1	<10	10	ug/L
1,1-Dichloroethane	IB		GCMS052394	1	<10	10	ug/L
1,2-Dichloroethane	IB		GCMS052394	1	<10	10	ug/L
1,2-Dichloroethene (Total)	IB		GCMS052394	1	<10	10	ug/L
1,2-Dichloropropane	IB		GCMS052394	1	<10	10	ug/L
cis-1,3-Dichloropropene	IB		GCMS052394	1	<10	10	ug/L
trans-1,3-Dichloropropene	IB		GCMS052394	1	<10	10	ug/L
Ethylbenzene	IB		GCMS052394	1	<10	10	ug/L
2-Hexanone	IB		GCMS052394	1	<10	10	ug/L
Methylene chloride	IB		GCMS052394	1	<10	10	ug/L
4-Methyl-2-pentanone	IB		GCMS052394	1	<10	10	ug/L
Styrene	IB		GCMS052394	1	<10	10	ug/L
1,1,2,2-Tetrachloroethane	IB		GCMS052394	1	<10	10	ug/L
Tetrachloroethene	IB		GCMS052394	1	<10	10	ug/L
1,1,1-Trichloroethane	IB		GCMS052394	1	<10	10	ug/L
1,1,2-Trichloroethane	IB		GCMS052394	1	<10	10	ug/L
Total Xylenes	IB		GCMS052394	1	<10	10	ug/L
Vinyl chloride	IB		GCMS052394	1	<10	10	ug/L

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WESTERN ATLAS

Core Laboratories

QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942301 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Volatile Organic Contaminants DATE ANALYZED: 05/23/94 TIME ANALYZED: 14:32 METHOD: SW-846/8240 QC NUMBER:978726

REFERENCE STANDARDS

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	TRUE VALUE	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
1,2-Dichloroethane-d4	SS	942301-05	1	53	50	106	10	ug/L
Toluene-d8	SS	942301-05	1	52	50	104	10	ug/L
Bromofluorobenzene	SS	942301-05	1	51	50	102	10	ug/L

008904

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QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942301 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Volatile Organic Contaminants DATE ANALYZED: 05/23/94 TIME ANALYZED: 14:32 METHOD: SW-846/8240 QC NUMBER:978726

MATRIX SPIKES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Benzene	MS	942615-09	1	59	0	50	118	10	ug/L
1,1-Dichloroethene	MS	942615-09	1	39	0	50	78	10	ug/L
Trichloroethene	MS	942615-09	1	59	0	50	118	10	ug/L
Toluene	MS	942615-09	1	59	0	50	118	10	ug/L
Chlorobenzene	MS	942615-09	1	58	0	50	116	10	ug/L

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QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942301 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Volatile Organic Contaminants DATE ANALYZED: 05/23/94 TIME ANALYZED: 14:32 METHOD: SW-846/8240 QC NUMBER:978726

DUPLICATES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (|A-B|)	DETECTION LIMITS	UNITS OF MEASURE
Benzene	MSD	942615-09	1	59	49	19	10	ug/L
1,1-Dichloroethene	MSD	942615-09	1	39	47	8	10	ug/L
Trichloroethene	MSD	942615-09	1	59	49	19	10	ug/L
Toluene	MSD	942615-09	1	59	49	19	10	ug/L
Chlorobenzene	MSD	942615-09	1	58	47	21	10	ug/L

008906

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other mineral property, well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced except in its entirety, without the written approval of Core Laboratories.

8906

WESTERN ATLAS

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QUALITY ASSURANCE FOOTER
REPORT DATE

ND = Analyte Not Detected above the quantitation limit

The detection limit and units reported in the Quality Assurance (QA) Report may not coincide with the values reported in the Analytical Report because the data presented in the QA Report may not account for sample preparation and dilutions performed.

The date and time analyzed on the Quality Assurance Report may not reflect the actual date and/or time of analysis.

Results for soil samples are reported on a wet weight basis (unless otherwise indicated).

Cited Methods are obtained from the following documents:
- EPA 600/4-79-020, Methods for Chemical Analysis of Water and Wastes, March 1983
- Standard Methods for the Chemical Analysis of Water and Wastewater, 17th Edition, 1989
- Federal Register, Friday, October 26, 1984 (40 CRF Part 136)
- Standard Methods for the Examination of Water and Wastewater, 16th Edition, 1985

Numerical values expressed in the "LIMITS/*DILUTION" column are Method Quantitation Limits (MQL). A final result of "ND" should be considered as "less than the MQL" (<MQL) unless it is noted otherwise.

008907

SUBCONTRACTED LABORATORY LOCATIONS

For analysis performed by a subcontract laboratory, an "*" and the designated laboratory code is indicated in the "TECHN" column of the laboratory test results report.

Core Laboratories:		Other Laboratories:	
Anaheim	* A N	Saybolt	* 0 1
Aurora	* A U	Caleb Brett	* 0 2
Carrollton	* C R	Maxim	* 0 3
Casper	* C A	Southwestern Labs	* 0 4
Corpus Christi	* C C	Analytichem	* 0 5
Hollister	* H R	Other	* 0 0
Houston	* H P		
Long Beach	* L B		
New Orleans	* N O		

QUALITY ASSURANCE REPORT CODES

NC = Not Calculable due to values lower than the reporting limit

BLANKS	REFERENCE STANDARDS	SPIKES	DUPLICATES
MB = Method Blank	CS = Calibration Standard	MS = Matrix Spike	MSD = Matrix Spike Duplicate
RB = Reagent Blank	RS = Reference Standard	PDS = Post-Digest Spike	SD = Sample Duplicate
IB = Instrument Blan	ICV = Initial Calib. Verification	BS = Blank Spike	MD = Method Duplicate
ICB = Initial Calib. Blank	CCV = Continuing Calib. Verification	SS = Surrogate Spike	
CCB = Continuing Calib. Blank	LCS = Laboratory Control Standard		

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8907

WESTERN ATLAS

CORE LABORATORIES

No. 00700

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: Jones & Neuse	PROJECT NAME/NUMBER:
SEND REPORT TO: Michael Whitehead	BILLING INFORMATION
ADDRESS: 12655 N. Central Exp, Su 327 Dallas TX 75243	BILL TO:
	ADDRESS: SAME
PHONE: 490-8696	PHONE:
FAX:	FAX: PO NO.:

LAB JOB NO: 94-301

SAMPLE NO.	SAMPLE ID	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE	PRES.	NUMBER OF CONTAINERS	TAL	TCL	Cation Sup	TOC	Moisture Content				REMARKS / PRECAUTION
1	RI-SB-18-01-42	5/17/94	0845	Soil	8oz Jar	NO	1	✓								0-2'
2	RI-SB-18-02-43	"	850	"	"	"	2	✓		✓	✓	✓				5-7'
3	RI-SB-18-03-44	"	855	"	"	"	2	✓	✓							17-19'
4	RI-SB-19-01-45	"	10:40	"	"	"	2	✓		H	H	H				
5	RI-SB-19-02-46	"	1045	"	"	"	1	✓								
6	RI-SB-19-03-47	"	11:20	"	"	"	3	✓	✓	✓	✓	✓				Angra without 10-15'
7	RI-SB-19-04-48	"	11:30	"	"	"	2	✓	✓							15-17'
8	RI-SB-20-01-49	"	13:50	"	"	"	1	✓								
9	RI-SB-20-02-50	"	13:55	"	"	"	2	✓	✓							
10	RI-SB-20-03-51	"	14:00	"	"	"	2	✓		✓	✓	✓				20-22'

SAMPLER: Mike Whitehead

SHIPMENT METHOD: Pick up

AIRBILL NO.:

REQUIRED TURNAROUND:* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☒ OTHER See Ed York

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Michael Whitehead	5/17/94	SIGNATURE:		SIGNATURE: Mary Scott	5-18-9
PRINTED NAME/COMPANY: Michael Whitehead / JN	TIME 15:20	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: Core	TIME 1700
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE: E. Ed York	5/17/94	SIGNATURE: Jon Feigitsch	5/17/94	SIGNATURE: Jessica Montoie	5/19
PRINTED NAME/COMPANY: Core	TIME 15:38	PRINTED NAME/COMPANY: Core	TIME 17:30	PRINTED NAME/COMPANY: Jessica Montoie Core	TIME 1200

* RUSH TURNAROUND MAY REQUIRE SURCHARGE

008908

8908

WESTERN ATLAS

CORE LABORATORIES

CHAIN OF CUSTODY RECORD

(1) No. 00665

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: RMT/SW - Dallas	PROJECT NAME/NUMBER: DHA-RI-
SEND REPORT TO: ~~Same~~ ~~Phil~~ M. Whitehead	BILLING INFORMATION
ADDRESS: 12655 N. Central Exp., Su 523 Dallas TX 75243	BILL TO: ADDRESS: Same
PHONE: 490-8696	PHONE:
FAX: 490-8695	FAX: PO NO.:

LAB JOB NO. 941301

SAMPLE NO.	SAMPLE ID	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE	PRES.	NUMBER OF CONTAINERS	TPH - Dissolved	TPH - Total	TSS	Alkalinity	Nitrate	KJELDAHL - N	TPH	TCL	REMARKS / PRECAUTIONS
1	RI-SW-01-34	5/16/94	12:00	WATER	1 LT	NO3	1	✓								
2	RI-SW-01-34	5/16/94	12:00	WATER	1 LT	NO3	1		✓							
3	RI-SW-01-34	5/16/94	12:00	WATER	1 LT	None	1			✓	✓	✓	✓			
4	RI-SD-01-35	5/16/94	12:30	SOIL	9 oz	None	1							✓		
5	RI-SD-02-36	5/16/94	12:35	SOIL	9 oz	None	1							✓	●	
6	RI-SW-02-37	5/16/94	3:30	WATER	1 LT	NO3	3 (2)	✓	✓	NA	NA	NA	NA			
7	RI-SW-02D-38	5/16/94	3:35	WATER	1 LT	NO3	1	✓								
8	RI-SW-02D-38	5/16/94	3:40	WATER	1 LT	NO3	1		✓							
9	RI-SW-02D-38	5/16/94	3:45	WATER	1 LT.	None	1			NA	NA	NA	NA			
10	RI-SW-02-37	5/16/94	3:30	WATER	1 LT amber	None	1								✓	SVOA

008909

8909

SAMPLER: J. Mirity, Clayfe

SHIPMENT METHOD:

AIRBILL NO.:

REQUIRED TURNAROUND:* [ ] SAME DAY [ ] 24 HOURS [ ] 48 HOURS [ ] 72 HOURS [ ] 5 DAYS [ ] 10 DAYS [ ] ROUTINE [X] OTHER call Ed York

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Mike Whitehead	5/17/94	SIGNATURE:		SIGNATURE: Mary Scott	5-18-94
PRINTED NAME/COMPANY: Mike Whitehead / JN	TIME: 15:20	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: Core	TIME: 1200
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE: Ed York	5/17/94	SIGNATURE: Jon Fegitsch	5/18/94	SIGNATURE: Jessica Monfore	5/19/94
PRINTED NAME/COMPANY: Core	TIME: 15:32	PRINTED NAME/COMPANY: CORE	TIME: 9:30	PRINTED NAME/COMPANY: Jessica Monfore Core Lab	TIME: 1200

* RUSH TURNAROUND MAY REQUIRE SURCHARGE

WESTERN ATLAS

CORE LABORATORIES

(2) No. 00670

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: RMT/JN	PROJECT NAME/NUMBER: DAA-RI
SEND REPORT TO: Michael Whitehead	BILLING INFORMATION
ADDRESS: Same	BILL TO:
12655 N Central Exp. Ste 325	ADDRESS: Sigma
Dallas TX 75243	
PHONE: 490-8696	PHONE:
FAX:	FAX: PO NO.:

LAB JOB NO. 942301

SAMPLE NO.	SAMPLE ID	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE	PRES.	NUMBER OF CONTAINERS	TAL-Dissolved	TAL-Total	TSS	Alkalinity	Nitrate	Kjeldahl N	TAL	TCL	REMARKS / PRECAUTIONS
11	RI-SW-02-37	5/16/94	3:30	water	VOA	none	2								✓	VOA
12	RI-SD-02-01-39	5/16/94	4:00	soil	902	none	1							✓		
13	RI-SD-02-01D-40	5/16/94	4:05	soil	902	none	1							✓		
14	RI-SD-02-02-41	5/16/94	4:20	soil	902	none	1							✓		

008910

8910

SAMPLER: [illegible] SHIPMENT METHOD: AIRBILL NO.:

REQUIRED TURNAROUND:* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☒ OTHER Call Ed York

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Mike Whitehead	5/17/94	SIGNATURE:		SIGNATURE: Mary Scott	5-18-94
PRINTED NAME/COMPANY: Mike Whitehead / JN	TIME 15:20	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY: Core	TIME 1700
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE: C. Ed York	5/17/94	SIGNATURE: Cyn Feizitsch	5/18/94	SIGNATURE: Gina Malone	5/19/94
PRINTED NAME/COMPANY: Core	TIME 15:38	PRINTED NAME/COMPANY: CORE	TIME 9:30	PRINTED NAME/COMPANY: Jessica Montoro Core	TIME 1200

* RUSH TURNAROUND MAY REQUIRE SURCHARGE

[GC/MS OPERATOR REPORT]

[GC/MS LAB SEMIVOLATILES]

[INTERNAL STANDARD CHECK REPORT]

942301-01

SAMPLE FILE = >A4431
CAL CHECK FILE = >SK451
DATE AND TIME OF ANALYSIS = 5/31/94 12:06
MISCELLANEOUS = 05 25 94 SOLID 30.0g:1ml
METHOD = BNAMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER GRP

I. Areas

Name of the BNA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
1,4-Dichlorobenz-d4	23793	26037	13018	52074	OK
Naphthalene-d8	99756	112796	56398	225592	OK
Acenaphthene-d10	90412	100100	50050	200200	OK
Phenanthrene-d10	230083	246670	123335	493340	OK
Chrysene-d12	367638	372333	186166	744666	OK
Perylene-d12	430290	537313	268656	1074626	OK

II. Retention Times

Name of the BNA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
1,4-Dichlorobenz-d4	8.11	8.14	7.64	8.64	OK
Naphthalene-d8	11.58	11.58	11.08	12.08	OK
Acenaphthene-d10	16 41	16.44	15.94	16.94	OK
Phenanthrene-d10	20.40	20.42	19.92	20.92	OK
Chrysene-d12	27.73	27.74	27 24	28.24	OK
Perylene-d12	31.37	31.40	30.90	31.90	OK

[GC/MS OPERATOR REPORT]

[GC/MS LAB VOLATILES]

[INTERNAL STANDARD CHECK REPORT]

942301-01

SAMPLE FILE = >B0877
CAL CHECK FILE = >BC068
DATE AND TIME OF ANALYSIS = 5/31/94 20:41
MISCELLANEOUS = (VTCL) 5.0g PURGE
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

I. Areas

Name of the VOA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
Bromochlorobenzene	10075	25235	12618	50470	BAD *
1,4-Difluorobenzene	44064	108922	54461	217844	BAD *
Chlorobenzene-d5	33302	84051	42025	168102	BAD *

II. Retention Times

Name of the VOA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
Bromochloromethane	8.13	8.16	7.66	8.66	OK
1,4-Difluorobenzene	10.39	10.38	9.88	10.88	OK
Chlorobenzene-d5	18.48	18.47	17.97	18.97	OK

* soil matrix interfer
with internal standar

[GC/MS OPERATOR REPORT]

[GC/MS LAB SEMIVOLATILES]

942301-02
DFM

[INTERNAL STANDARD CHECK REPORT]

SAMPLE FILE = A4452
CAL CHECK FILE = SK451
DATE AND TIME OF ANALYSIS = 5/31/94 12:50
MISCELLANEOUS = 05 25 94 SOLID 30.3g:1ml
METHOD = BNAMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER GRP

I. Areas

Name of the BNA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
1,4-Dichlorobenz-d4	22188	26037	13018	52074	OK
Naphthalene-d8	95874	112796	56398	225592	OK
Acenaphthene-d10	92701	100100	50050	200200	OK
Phenanthrene-d10	211026	246670	123335	493340	OK
ysene-d12	236434	372333	186166	744666	OK
Perylene-d12	230811	537313	268656	1074626	BAD *

II. Retention Times

Name of the BNA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
1,4-Dichlorobenz-d4	8.14	8.14	7.64	8.64	OK
Naphthalene-d8	11.60	11.58	11.08	12.08	OK
Acenaphthene-d10	16.42	16.44	15.94	16.94	OK
Phenanthrene-d10	20.44	20.42	19.92	20.92	OK
Chrysene-d12	27.83	27.74	27.24	28.24	OK
Perylene-d12	31.50	31.40	30.90	31.90	OK

(see dilution of this sample file A4440.)

* No target analytes were reported under this internal standard. Extreme hydrocarbon content in sample matrix interfered with recovery DFM

008913

8913

[GC/MS OPERATOR REPORT]

[GC/MS LAB SEMIVOLATILES]

[INTERNAL STANDARD CHECK REPORT]

942301-02
dilution

SAMPLE FILE = >A4440
CAL CHECK FILE = >SK451
DATE AND TIME OF ANALYSIS = 5/31/94 19:45
MISCELLANEOUS = 05 25 94 SOLID 30.3g:1ml 1:2 Dilution
METHOD = BNAMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER GRP

I. Areas

Name of the BNA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
1,4-Dichlorobenz-d4	23063	26037	13018	52074	OK
Naphthalene-d8	103566	112796	56398	225592	OK
Acenaphthene-d10	96592	100100	50050	200200	OK
Phenanthrene-d10	233850	246670	123335	493340	OK
Chrysene-d12	275399	372333	186166	744666	OK
Perylene-d12	308213	537313	268656	1074626	OK

II. Retention Times

Name of the BNA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
1,4-Dichlorobenz-d4	9.14	8.14	7.64	8.64	OK
Naphthalene-d8	11.60	11.58	11.08	12.08	OK
Acenaphthene-d10	16.44	16.44	15.94	16.94	OK
Phenanthrene-d10	20.43	20.42	19.92	20.92	OK
Chrysene-d12	27.79	27.74	27.24	28.24	OK
Perylene-d12	31.46	31.40	30.90	31.90	OK

[GC/MS OPERATOR REPORT]

[GC/MS LAB VOLATILES]

[INTERNAL STANDARD CHECK REPORT]

942301-02

SAMPLE FILE = >B0878
CAL CHECK FILE = >BC068
DATE AND TIME OF ANALYSIS = 5/31/94 21:19
MISCELLANEOUS = (VTCL) 5.0g PURGE
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

I. Areas

Name of the VOA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
Bromochlorobenzene	16537	25235	12618	50470	OK
1,4-Difluorobenzene	57832	108922	54461	217844	OK
Chlorobenzene-d5	36180	84051	42025	168102	BAD *

II. Retention Times

Name of the VOA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
Bromochloromethane	8.14	8.16	7.66	8.66	OK
1,4-Difluorobenzene	10.40	10.38	9.88	10.88	OK
Chlorobenzene-d5	18.47	18.47	17.97	18.97	OK

* soil matrix interfer
with internal standa

[GC/MS OPERATOR REPORT]

[GC/MS LAB SEMIVOLATILES]

942301-03

[INTERNAL STANDARD CHECK REPORT]

SAMPLE FILE = >A4433
CAL CHECK FILE = >SK451
DATE AND TIME OF ANALYSIS = 5/31/94 13:33
MISCELLANEOUS = 05 25 94 SOLID 30.1g:1ml
METHOD = BNAMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER GRP

I. Areas

Name of the BNA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
1,4-Dichlorobenz-d4	24390	26037	13018	52074	OK
Naphthalene-d8	103807	112796	56398	225592	OK
Acenaphthene-d10	99150	100100	50050	200200	OK
Phenanthrene-d10	246095	246670	123335	493340	OK
Chrysene-d12	358826	372333	186166	744666	OK
Perylene-d12	424142	537313	268656	1074626	OK

II. Retention Times

Name of the BNA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
1,4-Dichlorobenz-d4	8.13	8.14	7.64	8.64	OK
Naphthalene-d8	11.60	11.58	11.08	12.08	OK
Acenaphthene-d10	16.43	16.44	15.94	16.94	OK
Phenanthrene-d10	20.42	20.42	19.92	20.92	OK
Chrysene-d12	27.74	27.74	27.24	28.24	OK
Perylene-d12	31.40	31.40	30.90	31.90	OK

[GC/MS OPERATOR REPORT]

[GC/MS LAB VOLATILES]

[INTERNAL STANDARD CHECK REPORT]

942301-03

SAMPLE FILE = >B0879
CAL CHECK FILE = >BC068
DATE AND TIME OF ANALYSIS = 5/31/94 21:57
MISCELLANEOUS = (VTCL) 5.0g PURGE
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

I. Areas

Name of the VOA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
Bromochlorobenzene	18948	25235	12618	50470	OK
1,4-Difluorobenzene	82222	108922	54461	217844	OK
Chlorobenzene-d5	62276	84051	42025	168102	OK

II. Retention Times

Name of the VOA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
Bromochloromethane	8.15	8.16	7.66	8.66	OK
1,4-Difluorobenzene	10.37	10.38	9.88	10.88	OK
Chlorobenzene-d5	18.47	18.47	17.97	18.97	OK

[GC/MS OPERATOR REPORT]

[GC/MS LAB SEMIVOLATILES]

[INTERNAL STANDARD CHECK REPORT]

942301-04

SAMPLE FILE = >A4434
CAL CHECK FILE = >SK451
DATE AND TIME OF ANALYSIS = 5/31/94 14:17
MISCELLANEOUS = 05 25 94 SOLID 30.0g:1ml
METHOD = BNAMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER GRP

I. Areas

Name of the BNA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
1,4-Dichlorobenz-d4	23706	26037	13018	52074	OK
Naphthalene-d8	96698	112796	56398	225592	OK
Acenaphthene-d10	92587	100100	50050	200200	OK
Phenanthrene-d10	216245	246670	123335	493340	OK
Chrysene-d12	294926	372333	186166	744666	OK
Perylene-d12	373307	537313	268656	1074626	OK

II. Retention Times

Name of the BNA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
1,4-Dichlorobenz-d4	8.13	8.14	7.64	8.64	OK
Naphthalene-d8	11.58	11.58	11.08	12.08	OK
Acenaphthene-d10	16.42	16.44	15.94	16.94	OK
Phenanthrene-d10	20.44	20.42	19.92	20.92	OK
Chrysene-d12	27.78	27.74	27.24	28.24	OK
Perylene-d12	31.43	31.40	30.90	31.90	OK

[GC/MS OPERATOR REPORT]

[GC/MS LAB VOLATILES]

942301-04

[INTERNAL STANDARD CHECK REPORT]

SAMPLE FILE = >B0880
CAL CHECK FILE = >BC068
DATE AND TIME OF ANALYSIS = 5/31/94 22:35
MISCELLANEOUS = (VTCL) 5.0g PURGE
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

I. Areas

Name of the VOA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
Bromochlorobenzene	15234	25235	12618	50470	OK
1,4-Difluorobenzene	64674	108922	54461	217844	OK
Chlorobenzene-d5	41175	84051	42025	168102	BAD *

Retention Times

Name of the VOA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
Bromochloromethane	8.15	8.16	7.66	8.66	OK
1,4-Difluorobenzene	10.39	10.38	9.88	10.88	OK
Chlorobenzene-d5	18.48	18.47	17.97	18.97	OK

* soil matrix interfered with internal standards.

[GC/MS OPERATOR REPORT]

[GC/MS LAB SEMIVOLATILES]

[INTERNAL STANDARD CHECK REPORT]

942301-05

SAMPLE FILE = >A4435
CAL CHECK FILE = >SK451
DATE AND TIME OF ANALYSIS = 5/31/94 15:02
MISCELLANEOUS = 05 24 94 LIQ. 1000mls:1ml
METHOD = BNAMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER GRP

I. Areas

Name of the BNA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
1,4-Dichlorobenz-d4	25066	26037	13018	52074	OK
Naphthalene-d8	101772	112796	56398	225592	OK
Acenaphthene-d10	96158	100100	50050	200200	OK
Phenanthrene-d10	245272	246670	123335	493340	OK
Chrysene-d12	392097	372333	186166	744666	OK
Perylene-d12	441003	537313	268656	1074626	OK

II. Retention Times

Name of the BNA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
1,4-Dichlorobenz-d4	8.13	8.14	7.64	8.64	OK
Naphthalene-d8	11.59	11.58	11.08	12.08	OK
Acenaphthene-d10	16.42	16.44	15.94	16.94	OK
Phenanthrene-d10	20.42	20.42	19.92	20.92	OK
Chrysene-d12	27.73	27.74	27.24	28.24	OK
Perylene-d12	31.38	31.40	30.90	31.90	OK

[GC/MS OPERATOR REPORT]

[GC/MS LAB VOLATILES]

[INTERNAL STANDARD CHECK REPORT]

942301-05

SAMPLE FILE = >V0869
CAL CHECK FILE = >VK923
DATE AND TIME OF ANALYSIS = 5/24/94 14:39
MISCELLANEOUS = (VTCL) 5.0ml PURGE
METHOD = VOAMS1
INSTRUMENT = VOA I
OPERATOR = CORE1 SUPER GRP

I. Areas

Name of the VOA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
Bromochlorobenzene	14608	18549	9275	37098	OK
1,4-Difluorobenzene	58764	74616	37308	149232	OK
Chlorobenzene-d5	43960	56973	28486	113946	OK

II. Retention Times

Name of the VOA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
Bromochloromethane	5.20	5.23	4.73	5.73	OK
1,4-Difluorobenzene	7.35	7.35	6.85	7.85	OK
Chlorobenzene-d5	13.08	13.09	12.59	13.59	OK

GC/MS PERFORMANCE STANDARD

Decafluorotriphenylphospine (DFTPP)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	Appropriate Peak	Status
51	30-60% of mass 198	49.72	49.72	Ok
68	Less than 2% of mass 69	0.00	0.00	Ok
69	(reference only)	59.18	59.18	Ok
70	Less than 2% of mass 69	.25	.43	Ok
127	40-60% of mass 198	40.21	40.21	Ok
197	Less than 1% of mass 198	0.00	0.00	Ok
198	Base peak, 100% relative abundance	100.00	100.00	Ok
199	5-9% of mass 198	6.82	6.82	Ok
275	10-30% of mass 198	24.23	24.23	Ok
365	Greater than 1% of mass 198	3.53	3.53	Ok
441	0-100% of mass 443	11.73	84.80	Ok
442	Greater than 40% of mass 198	80.61	80.61	Ok
443	17-23% of mass 442	13.83	17.16	Ok

Injection Date: 05/31/94
Injection Time: 08:31
Data File: >SD697
Scan: 34

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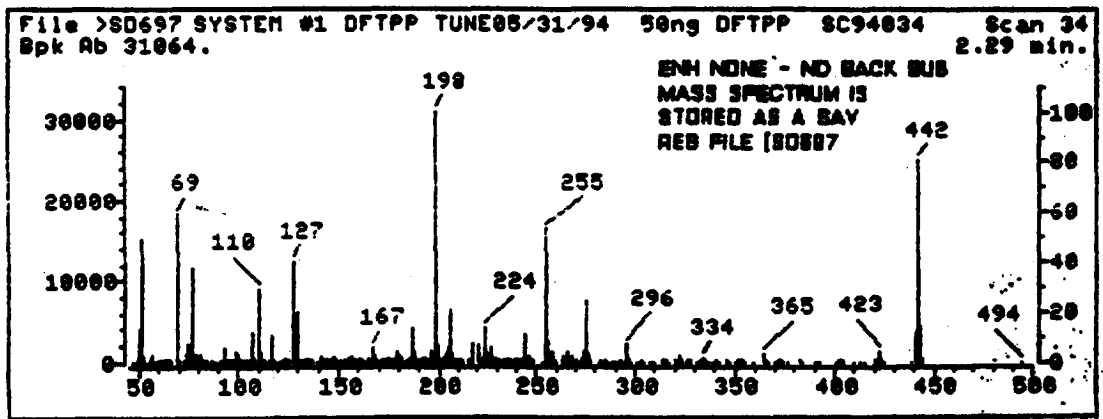

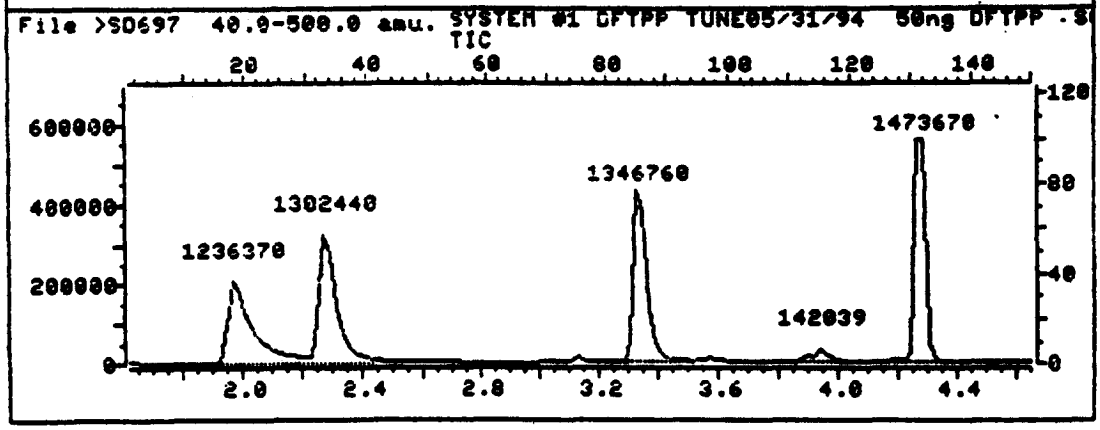

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LLB 5-31-9

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File: >SD697 Scan #: 34 Retn. time: 2.29

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
40.95	.274	109.95	29.569	173.05	.444	239.05	.344	321.00	.280
43.95	.766	111.05	3.831	173.95	.950	240.15	.241	321.90	.100
47.05	.200	111.95	.483	175.05	1.416	241.05	.332	322.95	2.456
47.85	.167	113.05	.225	176.05	.837	242.05	.808	323.95	.373
49.05	.753	114.95	.216	177.05	1.030	243.15	.660	325.85	.064
49.95	13.015	116.05	.724	178.05	.344	244.10	10.855	326.05	.061
50.95	49.723	117.05	10.340	179.05	3.805	245.00	1.381	326.95	.502
51.95	2.273	117.95	.692	180.05	2.472	246.00	2.189	327.95	.287
52.95	.167	120.00	.142	181.15	1.127	247.00	.377	330.95	.039
55.05	.377	120.90	.097	182.00	.148	248.00	.119	332.05	[illegible]
55.90	1.639	121.90	.824	183.10	.113	249.00	.383	332.95	[illegible]
56.90	3.570	123.00	1.323	184.10	.274	253.00	.174	333.95	1.548
58.00	.167	124.00	.679	185.10	1.658	255.10	53.258	335.05	.402
59.00	.187	125.00	.592	186.10	13.218	256.10	7.961	336.05	.068
59.90	.309	127.00	40.207	187.10	3.576	257.10	.586	338.80	.081
61.00	.737	128.10	2.881	188.00	.283	258.10	3.605	340.90	.2[illegible]
62.00	.744	129.00	19.956	189.10	.708	259.10	.512	342.00	.113
63.00	1.664	130.00	2.083	190.10	.206	260.85	.093	346.00	.573
64.00	.280	131.00	.447	191.10	.377	263.85	2.263	347.00	.138
65.00	1.111	132.00	.522	192.10	1.175	264.95	1.494	350.00	.052
65.90	.229	132.90	.538	193.10	1.214	265.85	3.763	350.70	.048
69.00	59.181	134.00	.760	194.10	.332	266.85	.264	350.90	.048
70.00	.254	135.05	1.471	195.00	.177	267.85	2.447	351.90	.885
71.00	.290	136.05	.576	196.10	3.686	268.95	.216	353.00	.415
72.95	.522	137.05	.692	197.95	100.000	269.85	.647	353.95	.695
73.95	3.467	138.85	.087	198.95	6.821	270.95	.174	354.95	.097
74.95	6.944	140.05	.209	199.95	1.017	271.95	.196	359.05	.097
76.05	2.125	140.95	2.421	200.95	.457	273.05	1.613	364.85	3.531
77.05	37.262	142.05	.843	201.75	.991	274.05	4.262	365.95	.509
77.95	2.469	143.05	.586	202.95	1.127	275.05	24.227	366.75	.061
78.95	3.216	143.95	.155	204.05	3.435	276.00	3.100	369.65	.068
79.95	2.112	144.95	.219	205.05	5.785	277.00	2.373	369.90	.061
80.95	3.161	146.05	.425	206.05	20.976	278.00	.367	370.90	.216
82.05	.795	147.05	1.130	207.05	3.119	281.80	.064	371.90	1.017
83.05	.814	148.05	2.495	208.05	.850	283.00	.283	372.90	.270
83.95	.212	149.15	.483	209.05	.264	284.00	.126	373.80	.061
84.95	.657	151.00	.325	210.15	.499	285.10	.312	376.40	.045
86.05	.882	151.50	.212	211.05	.995	286.00	.052	382.80	.280
87.00	.615	151.80	.209	211.75	.315	288.00	.048	383.80	.129
87.70	.106	153.00	.802	215.00	.293	289.00	.068	389.95	.151
88.90	.183	154.00	.560	216.00	.525	289.90	.077	390.75	.126
90.90	.837	155.00	1.275	217.00	6.937	292.05	.113	391.95	.090
92.00	.808	156.00	1.983	218.00	.740	292.95	.476	400.75	.071
93.00	5.405	157.10	.493	221.10	6.866	293.95	.126	401.70	.435
93.90	.328	158.10	.409	223.00	1.358	294.15	.119	402.90	.737
94.90	.666	159.10	.251	224.10	13.475	295.95	7.066	403.80	.238
95.90	.373	160.00	.689	225.10	3.332	296.95	1.156	409.80	.048
97.00	.386	161.10	1.107	226.10	.335	297.95	.087	412.50	.035
98.00	4.040	162.00	.296	227.10	5.949	301.05	.116	414.50	.032
99.00	3.065	163.00	.084	228.00	1.037	302.05	.142	420.75	.528

[illegible]	1.861	[illegible]	1.836	[illegible]	[illegible]	504.15	[illegible]	[illegible]	[illegible]	[illegible]	.005
[illegible]	.264	166.05	.827	231.05	.493	307.90	[illegible]	[illegible]	[illegible]	[illegible]	.084
102.25	.647	167.05	5.717	231.95	.245	308.90	[illegible]	[illegible]	[illegible]	[illegible]	.045
103.95	.959	168.05	1.983	232.85	.183	310.00	[illegible]	[illegible]	[illegible]	440.80	11.727
104.95	.895	168.95	.682	234.05	.444	314.00	.370	441.80			80.608
106.15	.663	169.95	.180	235.05	.425	315.00	.905	442.80			13.829
107.05	11.544	171.05	.280	236.05	.309	316.00	.393	443.80			1.284
108.05	1.767	171.95	.470	237.05	.550	316.80	.052	494.25			.058

Instrument ID: SV-MS1 Analyzed on: 5/31/94 8:31

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008924

8924

DATA FILE NAME = SK451::C2
DATE AND TIME OF ANALYSIS = 5/31/94 8:59
SAMPLE = Sys.#1 Calib. Check
MISCELLANEOUS = 05 31 94 50ug/L 8270/625 Cmpds. SC930281
METHOD = BNAMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER GRP

CCC COMPOUND	DAILY CAL RF	5-POINT AVE RF	%D
Pe[illegible]henol	.2640	.2995	11.86
1,4-Dichlorobenzene	1.4238	1.4372	.93
2-Nitrophenol	.2101	.2067	1.63
2,4-Dichlorophenol	.3730	.3751	.56
Hexachlorobutadiene	.3680	.3890	5.39
4-Chloro-3-methylphenol	.3830	.3582	6.91
2,4,6-Trichlorophenol	.4472	.4695	4.74
Acenaphthene	1.1698	1.1138	5.03
N-Nitrosodiphenylamine	.3843	.3310	16.11
Fluoranthene	1.5212	1.4789	2.86
Di-n-octylphthalate	1.1605	.9186	26.33
Benzo(a)pyrene	.9974	.8862	12.55
Phenol	1.1118	1.1548	3.72

SPCC COMPOUND	DAILY RF
N-Nitroso-di-n-propylamine	.9658
Hexachlorocyclopentadiene	.5359
2,4-Dinitrophenol	.2230
4-Nitrophenol	.2262

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DAILY CALIBRATION FOR BNA'S PASSED ALL CCC AND SPCC CRITERIA

[illegible]E RF AND RT VALUES WILL AUTOMATICALLY BE UPDATED IN YOUR IDFILE

5-31-94

DATA FILE NAME = SK451::D2
DATE AND TIME OF ANALYSIS = 5/31/94 8:59
SAMPLE = Sys.#1 Calit. Check
MISCELLANEOUS = 05 31 94 50ug/L 8270/625 Cmpds. SC930281
METHOD = BNAMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER GRP

Compound Name	Retention Times: RRT FOUND	RRT IN THE IDFILE	RT DIFF-ERENCE	Response factors: RF FOUND	AVE. RF FROM 5-POINT	RATIO RF FOUND TO RF IN IDFILE
Azobenzene (1,2-D.P.H)	.90303	.90302	.00017	.73676	.6811	1.0365
4-Bromophenyl-phenylether	.94703	.94602	.02035	.26795	.2894	.97624
Hexachlorobenzene	.96002	.96002	-.0002	.43845	.5034	.98077
Phenanthrene	1.0030	1.0030	-.0001	1.1004	1.0494	1.0161
Anthracene	1.0090	1.0090	-.0001	1.0989	1.0195	.97187
Carbazole	1.0390	1.0390	-.0001	1.0812	.9455	1.0107
Di-n-butylphthalate	1.1039	1.1039	-.0006	1.7364	1.5224	.95109
Fluoranthene	1.1628	1.1629	-.0024	1.5212	1.4789	.95091
Benzidine	.87869	.87836	.01750	.20877	.1633	.96640
Butylbenzylphthalate	.95882	.95942	-.0073	.66125	.5134	1.0361
3,3'-Dichlorobenzidine	1.0044	1.0037	.02995	.45384	.3223	.98977
Benzo(a)anthracene	.99778	.99778	.00962	1.2029	1.0785	1.0568
bis(2-Ethylhexyl)phthalate	1.0206	1.0207	.00838	1.0187	.7860	1.0291
n-octylphthalate	.95315	.95362	.00330	1.1605	.9186	1.1400
zo(b)fluoranthene	.97136	.97124	.02193	1.0580	1.0595	.85967
Benzo(k)fluoranthene	.97136	.97386	-.0602	1.0580	.8219	1.2061
Benzo(a)pyrene	.99543	.99542	.01922	.99739	.8862	.97214
Indeno(1,2,3-cd)pyrene	1.0749	1.0746	.02795	1.2521	1.1044	1.0474
Dibenz(a,h)anthracene	1.0768	1.0766	.02782	.95773	.7700	.97895
Benzo(g,h,i)perylene	1.0938	1.0943	.00555	1.0644	.9707	1.0263
Phenol	.96237	.96489	-.0207	1.1118	1.1548	.87049
2-Chlorophenol	.94982	.94982	-.0002	1.0436	1.0566	.91924
1,4-Dichlorobenzene	1.0050	1.0050	-.0002	1.4238	1.4372	.93126
N-Nitroso-di-n-propylamine	1.1830	1.1830	-.0003	.96576	1.0073	.95638
1,2,4-Trichlorobenzene	.99470	.99471	.00000	.46161	.4624	1.0042
4-Chloro-3-methylphenol	1.1760	1.1778	-.0207	.38296	.3582	.96428
Acenaphthene	1.0050	1.0050	.02032	1.1698	1.1138	.99646
4-Nitrophenol	1.0596	1.0597	.02032	.22619	.2233	.94889
2,4-Dinitrotoluene	1.0521	1.0522	.02032	.55114	.5273	.97209
Pentachlorophenol	.98998	.98999	-.0003	.26399	.2995	.94925
Pyrene	.87722	.87688	.01757	1.0713	.8979	1.0560
2-Fluorophenol (SURR)	.60662	.60658	.00015	.61612	.6642	.90612
Phenol-d5 (SURR)	.95986	.96238	-.0207	1.0174	1.0192	.95106
Nitrobenzene-d5 (SURR)	.84679	.84681	-.0003	.29758	.3262	1.0030
2-Fluorobiphenyl (SURR)	.89576	.89688	-.0001	1.0752	1.0843	1.0310
2,4,6-Tribromophenol (SURR)	.91404	.91404	.00002	.23974	.3232	.92060
Terphenyl-d14 (SURR)	.90149	.90120	.01660	.77987	.7803	1.0075

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[MOST RECENT OF DAILY CALIBRATION GC/MS OPERATOR REPORT PAGE 1]

DATA FILE NAME = >SK451:D2
DATE AND TIME OF ANALYSIS = 5/31/94 9:59
SAMPLE = Sys.#1 Calib. Check
MISCELLANEOUS = 05 31 94 50ug/L 8270/625 Cmpds. SC930281
METHOD = BNAMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER CRP

Compound Name	Retention Times: RRT FOUND	RRT IN THE IDFILE	RT DIFF-ERENCE	Response factors: RF FOUND	AVE. RF FROM 5-POINT	RATIO RF FOUND TO RF IN IDFILE
Pyridine	.22836	.22834	.00010	.64908	.7856	.70127
n-Nitrosodimethylamine	.23086	.23335	-.0203	.40210	.4683	.88279
Aniline	.91974	.91974	-.0002	1.2214	1.2841	.91716
bis(2-Chloroethyl)ether	.95233	.91974	.26490	.79051	1.2798	.59368
1,3-Dichlorobenzene	.98244	.98244	-.0003	1.4030	1.4034	.93240
Benzyl alcohol	1.0902	1.0652	.20362	.04661	.5551	5.2286
1,2-Dichlorobenzene	1.0652	1.0652	-.0003	1.5027	1.4664	.97758
2-Methylphenol	1.1504	1.1529	-.0207	1.0162	1.0267	.78152
bis(2-Chloroisopropyl)ether	1.1328	1.1303	.02017	2.5433	2.6962	.97222
4-Methylphenol	1.2005	1.2030	-.0207	1.1796	1.0770	.99439
Hexachloroethane	1.1604	1.1604	-.0002	.74227	.7670	.95740
Nitrobenzene	.85032	.85034	-.0003	.46330	.3531	.96493
Isophorone	.90840	.90842	-.0002	.58926	.6456	.96150
itrophenol	.92425	.92426	-.0002	.21007	.2067	1.0174
-Dimethylphenol	.96121	.96122	-.0001	.26041	.2519	.97909
Benzoic acid	1.0176	1.0194	-.0203	.25390	.2580	.93153
bis(2-Chloroethoxy)methane	.97531	.97532	-.0001	.38768	.4135	.97648
2,4-Dichlorophenol	.98588	.98589	-.0001	.37301	.3751	.99773
Naphthalene	1.0053	1.0053	.00005	.91401	.9296	.99770
4-Chloroaniline	1.0423	1.0405	.02052	.38394	.3600	.97152
Hexachlorobutadiene	1.0546	1.0546	.00015	.36805	.3890	.98853
2-Methylnaphthalene	1.1708	1.1690	.02015	.77320	1.0273	1.0592
1-Methylnaphthalene	1.1937	1.1937	-.0002	.73394	.7286	1.0279
Hexachlorocyclopentadiene	.86347	.86455	-.0002	.53587	.4915	1.2530
2,4,6-Trichlorophenol	.88456	.88567	-.0002	.44724	.4695	.95811
2,4,5-Trichlorophenol	.89202	.89313	-.0001	.53625	.4911	.99710
2-Chloronaphthalene	.90447	.90559	-.0002	1.1026	1.0541	1.0281
2-Nitroaniline	.93919	.94036	-.0001	.42287	.3868	1.0203
Dimethylphthalate	.98013	.98135	-.0001	1.4855	1.4332	.97535
Acenophthylene	.97268	.97389	-.0000	1.8200	1.7238	1.0137
2,6-Dinitrotoluene	.98882	.99005	-.0000	.36096	.3337	1.0138
3-Nitroaniline	1.0112	1.0112	.02030	.33049	.2798	1.0063
2,4-Dinitrophenol	1.0273	1.0273	.02039	.22299	.2086	1.1104
Dibenzofuran	1.0323	1.0323	.02043	1.8140	1.7128	1.0132
Diethylphthalate	1.0993	1.1007	.00020	1.7532	1.7321	.94868
4-Chlorophenyl-phenylether	1.0968	1.0982	.00018	.79142	.7950	.96225
Fluorene	1.0894	1.0895	.02060	1.4240	1.3320	1.0083
4-Nitroaniline	1.1142	1.1156	.00023	.41511	.3640	1.0051
4,6-Dinitro-2-methylphenol	.90002	.90001	.00024	.15830	.1450	1.0720
itrosodiphenylamine	.90303	.90302	.00017	.38434	.3310	1.0152

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008927

8927

Calibration Report

Title: Semi-volatile Organics By EPA 8270/625 (SYSTEM #1)
Calibrated: 940518 14:20

Compound	Files: >A4365 RF 20.00	>A4366 RF 50.00	>A4367 RF 80.00	>A4368 RF 120.00	>A4369 RF 160.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CORR1	CORR2	
Pyridine	.81062	.77286	.86006	.65141	.83318	.230	.78562	10.381	.977498	.982908	
n-Nitrosodimethylamine	.52952	.48999	.43839	.40256	.48106	.235	.46830	10.460	.987477	.995294	
2-Fluorophenol (SURR)	.68819	.65100	.66195	.66118	.65859	.603	.66418	2.123	-	-	(Conc=200.0,200.0,
Phenol-d5 (SURR)	1.07170	1.02219	1.00279	1.00796	.99120	.957	1.01917	3.081	-	-	(Conc=200.0,200.0,
Phenol	1.21505	1.16467	1.18328	1.13483	1.07609	.960	1.15478	4.568	.998412	.999770	
Aniline	1.33300	1.29032	1.32912	1.25016	1.21774	.921	1.28407	3.896	.998893	.999740	
bis(2-Chloroethyl)ether	1.33237	1.27020	1.32912	1.24980	1.21774	.921	1.27985	3.915	.998839	.999628	
2-Chlorophenol	1.16484	1.07373	1.05424	1.03193	.95814	.950	1.05658	7.070	.997990	.999429	
1,3-Dichlorobenzene	1.52119	1.38098	1.43051	1.36870	1.31546	.984	1.40337	5.525	.998956	.999667	
1,4-Dichlorobenzene	1.59056	1.44770	1.44231	1.38386	1.32150	1.006	1.43719	6.948	.999032	.999865	
Benzyl alcohol	.52226	.53384	.56798	.55979	.59176	1.084	.55513	4.985	.999084	.999639	
1,2-Dichlorobenzene	1.59707	1.48181	1.44506	1.42006	1.38812	1.065	1.46643	5.502	.999871	.999989	
2-Methylphenol	1.05766	1.03426	1.02974	1.00800	1.00361	1.146	1.02665	2.127	.999938	.999978	
bis(2-Chloroisopropyl)ether	2.73474	2.68871	2.77480	2.66845	2.61408	1.133	2.69615	2.289	.999428	.999856	
4-Methylphenol	1.11901	1.09579	1.08606	1.05364	1.03059	1.199	1.07702	3.250	.999650	.999990	
N-Nitroso-di-n-propylamine	1.01935	1.01518	1.01054	1.00220	.98900	1.184	1.00725	1.194	.999918	.999997	
Hexachloroethane	.86709	.76924	.76364	.72506	.71021	1.162	.76705	7.988	.999639	.999891	
Nitrobenzene-d5 (SURR)	.33605	.32333	.32934	.31783	.32434	.845	.32618	2.106	-	-	(Conc=100.0,100.0,
Nitrobenzene	.39186	.35634	.33371	.35046	.33294	.850	.35306	6.795	.998909	.998936	
Isophorone	.66643	.63753	.64166	.64015	.64221	.908	.64560	1.826	.999973	.999990	
2-Nitrophenol	.20951	.20372	.20674	.20620	.20738	.924	.20671	1.012	.999966	.999983	
4-Dimethylphenol	.25664	.25891	.25239	.24982	.24152	.959	.25186	2.692	.999500	.999946	
Benzoic acid	.17528	.22189	.28929	.30403	.29961	1.018	.25802	22.073	.998220	.998334	
bis(2-Chloroethoxy)methane	.43887	.41767	.41580	.40358	.39146	.976	.41348	4.276	.999537	.999964	
2,4-Dichlorophenol	.36947	.37331	.38544	.37766	.36986	.984	.37515	1.767	.999609	.999913	
1,2,4-Trichlorobenzene	.49121	.47630	.46237	.44318	.43916	.994	.46245	4.753	.999702	.999895	
Naphthalene	1.04396	.95917	.90930	.89155	.84426	1.004	.92965	8.173	.999065	.999808	
4-Chloroaniline	.48760	.40552	.36523	.30121	.24028	1.039	.35997	26.417	.959610	.987562	
Hexachlorobutadiene	.41958	.39395	.38820	.36940	.37384	1.055	.38899	5.101	.999704	.999707	
4-Chloro-3-methylphenol	.36317	.34454	.36170	.36231	.35952	1.172	.35825	2.172	.999809	.999810	
2-Methylnaphthalene	1.15254	1.05499	1.01602	.95237	.96065	1.169	1.02731	7.943	.999529	.999554	
1-Methylnaphthalene	.80441	.74355	.72941	.68914	.67642	1.194	.72859	6.948	.999509	.999888	
Hexachlorocyclopentadiene	.36864	.53507	.52697	.51971	.50695	.864	.49147	14.129	.998295	.999880	
2,4,6-Trichlorophenol	.48155	.46807	.49778	.45619	.44386	.884	.46949	4.495	.997808	.999264	
2,4,5-Trichlorophenol	.53846	.51847	.48317	.47457	.44085	.890	.49110	7.789	.997872	.999536	
2-Chloronaphthalene	1.20437	1.09812	1.08478	.97592	.90745	.905	1.05413	10.928	.995445	.999650	
2-Fluorobiphenyl (SURR)	1.12152	1.09349	1.06699	1.10158	1.03799	.897	1.08432	2.993	-	-1.0000	(Conc=100.0,100.0,

RF - Response Factor (Subscript is amount in ug/ml)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CRn - Coefficient of Correlation (nth degree)

008928

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5/18/94

Calibration Report

Title: Semi-volatile Organics By EPA 8270/625 (SYSTEM #1)
Calibrated: 940518 14:20

Compound	Files: >A4365 RF 20.00	>A4366 RF 50.00	>A4367 RF 80.00	>A4368 RF 120.00	>A4369 RF 160.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CORR1	CORR2	
2-Nitroaniline	.39684	.39388	.41235	.37398	.35703	.939	.38681	5.565	.996486	.999354	
Dimethylphthalate	1.50380	1.45795	1.44586	1.41962	1.33872	.981	1.43319	4.254	.998607	.999711	
Acenaphthylene	1.92175	1.79114	1.77621	1.63653	1.49357	.973	1.72384	9.492	.994827	.999466	
2,6-Dinitrotoluene	.33657	.34193	.36016	.32805	.30193	.990	.33373	6.387	.993743	.999134	
3-Nitroaniline	.36200	.29210	.28129	.25032	.21341	1.010	.27983	19.727	.986200	.996347	
Acenaphthene	1.29301	1.15393	1.14209	1.02435	.95581	1.005	1.11384	11.662	.995751	.999594	
2,4-Dinitrophenol	.08385	.18829	.25308	.25277	.26522	1.026	.20864	36.431	.998873	.998912	
4-Nitrophenol	.20159	.23192	.23816	.22818	.21686	1.054	.22334	6.457	.997579	.999901	
Dibenzofuran	1.97721	1.77685	1.73706	1.59567	1.47731	1.033	1.71282	11.069	.996312	.999749	
2,4-Dinitrotoluene	.51840	.53079	.55211	.52926	.50581	1.053	.52727	3.247	.998362	.999773	
Diethylphthalate	1.96520	1.83259	1.68491	1.68135	1.49668	1.101	1.73215	10.192	.995051	.997795	
4-Chlorophenyl-phenylether	.89555	.84486	.81569	.71904	.69990	1.097	.79501	10.493	.996690	.999005	
Fluorene	1.53313	1.35504	1.37016	1.23852	1.16299	1.090	1.33197	10.600	.996462	.999469	
4-Nitroaniline	.38117	.36538	.36516	.37548	.33275	1.116	.36399	5.152	.994568	.996539	
4,6-Dinitro-2-methylphenol	.12875	.14994	.15512	.15717	.13379	.901	.14496	8.893	.988262	.993579	
N-Nitrosodiphenylamine	.43238	.37084	.29559	.30083	.25515	.904	.33096	21.248	.988768	.992443	
Azobenzene (1,2-D.P.H)	.85931	.76483	.63232	.61523	.53400	.904	.68114	19.019	.991179	.996549	
2,4,6-Tribromophenol (SURR)	.30453	.33841	.32009	.33655	.31657	.914	.32323	4.408	-	-	(Conc=200.0,200.0,
4-Bromophenyl-phenylether	.30716	.30732	.28920	.27779	.26574	.947	.28944	6.302	.998679	.999953	
Hexachlorobenzene	.54436	.53610	.49054	.48976	.45623	.961	.50340	7.247	.997992	.999319	
Pentachlorophenol	.29662	.29204	.30092	.31723	.29059	.990	.29948	3.580	.996973	.997653	
Phenanthrene	1.17282	1.07000	1.02953	1.03027	.94418	1.003	1.04936	7.900	.997507	.998817	
Anthracene	1.19753	1.07979	.95861	.97035	.89100	1.009	1.01946	11.808	.997568	.998559	
Carbazole	1.13094	.95619	.83569	.92993	.87453	1.039	.94545	12.041	.996708	.996838	
Di-n-butylphthalate	1.75391	1.66722	1.49768	1.46011	1.23298	1.104	1.52238	13.253	.987478	.994409	
Fluoranthene	1.67976	1.61596	1.43612	1.44844	1.21431	1.163	1.47892	12.278	.987223	.992452	
Benzidine	.14960	.18206	.17173	.15862	.15427	.878	.16326	8.185	.996482	.999456	
Pyrene	1.09095	.95257	.85750	.80105	.78755	.877	.89792	14.026	.999321	.999578	
Terphenyl-d14 (SURR)	.78828	.78442	.76193	.76136	.80541	.902	.78028	2.404	-	-	(Conc=100.0,100.0,
Butylbenzylphthalate	.57240	.53556	.51465	.50138	.44296	.959	.51339	9.230	.993754	.997770	
3,3'-Dichlorobenzidine	.32487	.38898	.33545	.31134	.25076	1.004	.32228	15.409	.968661	.989138	
Benzo(a)anthracene	1.17186	1.14295	1.06213	1.05288	.96249	.998	1.07846	7.654	.996862	.999035	
Chrysene	1.10094	1.08498	.94838	.89446	.80966	1.003	.96768	12.888	.993966	.999394	
bis(2-Ethylhexyl)phthalate	.84909	.88091	.76720	.75874	.67409	1.021	.78600	10.377	.993086	.997846	
Di-n-octylphthalate	1.19042	1.10516	.89021	.79184	.61550	.954	.91863	25.380	.956691	.981395	
Benzo(b)fluoranthene	.96466	1.17672	1.11337	1.08191	.96079	.972	1.05949	8.940	.991626	.998484	
Benzo(k)fluoranthene	1.22032	.80230	.64166	.53174	.91370	.974	.82195	32.431	.911641	.991180	

RF - Response Factor (Subscript is amount in ug/ml)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CORRn - Coefficient of Correlation (nth degree)

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008929

8929

Calibration Report

Title: Semi-volatile Organics By EPA 8270/625 (SYSTEM #1)
Calibrated: 940518 14:20

Compound	Files: >A4365 RF 20.00	>A4366 RF 50.00	>A4367 RF 80.00	>A4368 RF 120.00	>A4369 RF 160.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CORR1	CORR2
Benzo(a)pyrene	1.00793	.94780	.86272	.89041	.72227	.996	.88623	12.107	.982511	.986545
Indeno(1,2,3-cd)pyrene	.91140	1.20045	1.17419	1.16288	1.07290	1.075	1.10437	10.691	.995690	.999465
Dibenz(a,h)anthracene	.61738	.89266	.88908	.79398	.65676	1.077	.76997	16.672	.970717	.992842
Benzo(g,h,i)perylene	.83036	1.06664	1.03696	1.02422	.89555	1.094	.97074	10.531	.990177	.997190

008930

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RF - Response Factor (Subscript is amount in ug/ml)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CORRn - Coefficient of Correlation (nth degree)

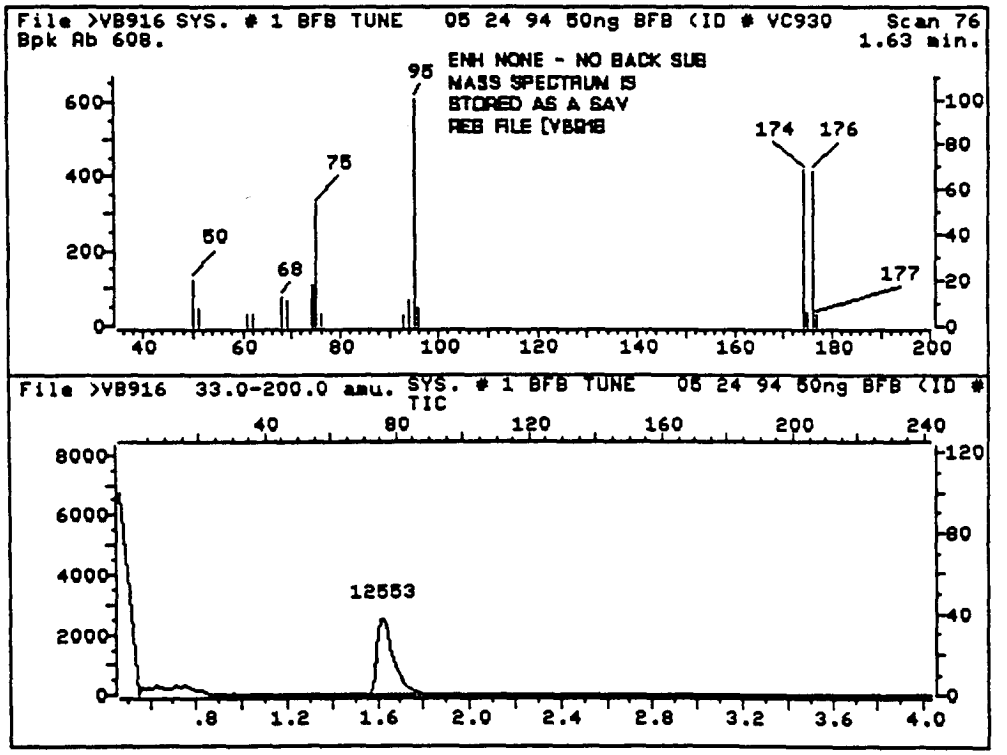
GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
50	15-40% of mass 95	20.23	20.23	Ok
75	30-60% of mass 95	53.45	53.45	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	7.24	7.24	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	68.59	68.59	Ok
175	5-9% of mass 174	5.92	8.63	Ok
176	95-101% of mass 174	68.09	99.28	Ok
177	5-9% of mass 176	4.77	7.00	Ok

Injection Date: 05/24/94
Injection Time: 08:41
Data File: >VB916
Scan: 76

008931



Instrument ID: VOA I Analyzed on: 5/24/94 8:41

MJH 052494

008931

8931

>VB916 SYS. # 1 BFB TUNE 05 24 94 50ng BFB (ID # VC930067)
76 NRM

File: >VB916 Scan #: 76 Retn. time: 1.63

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
50.15	20.230	68.05	12.664	76.10	4.605	95.10	100.000	174.95	5.921
51.15	7.401	69.05	11.020	93.00	3.947	96.10	7.237	176.05	68.092
61.05	4.605	74.05	17.599	94.10	11.020	174.05	68.586	176.95	4.770
62.05	4.934	75.10	53.454						

Instrument ID: VOA I Analyzed on: 5/24/94 8:41

008932

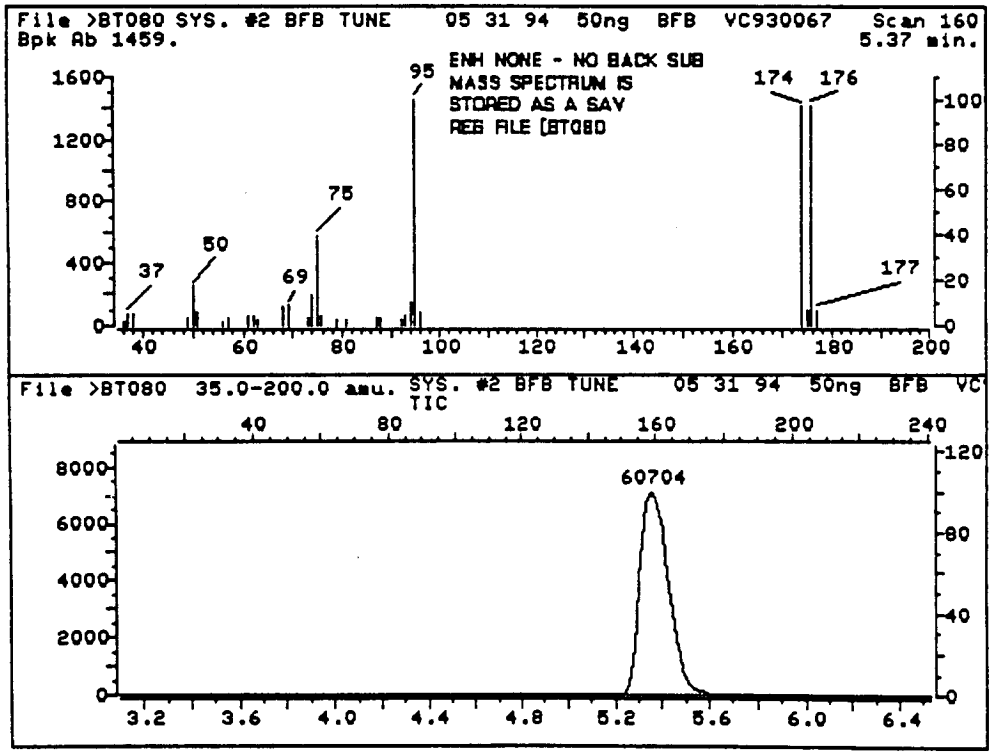
GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
50	15-40% of mass 95	17.14	17.14	Ok
75	30-60% of mass 95	39.48	39.48	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	6.03	6.03	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	96.85	96.85	Ok
175	5-9% of mass 174	6.58	6.79	Ok
176	95-101% of mass 174	97.53	100.71	Ok
177	5-9% of mass 176	6.85	7.03	Ok

008933

Injection Date: 05/31/94
Injection Time: 14:57
Data File: >BT080
Scan: 160



Instrument ID: VOA II Analyzed on: 5/31/94 14:57

MJH 060194

008933

8933

>BT080 SYS. #2 BFB TUNE 05 31 94 50ng BFB VC930067
160 NRM

File: >BT080 Scan #: 160 Retn. time: 5.37

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
36.00	1.371	55.90	1.371	68.95	8.773	80.90	1.988	94.95	100.000
37.00	5.003	56.90	3.084	72.95	3.016	86.90	3.016	95.95	6.032
38.00	4.661	61.00	4.249	73.95	13.639	87.95	3.427	173.90	96.847
48.95	3.496	62.00	3.770	74.95	39.479	91.95	2.605	174.90	6.580
49.95	17.135	63.00	2.536	75.95	3.633	92.95	3.907	175.90	97.533
51.05	5.552	67.95	8.019	78.90	2.056	93.95	10.212	176.90	6.854

Instrument ID: VOA II Analyzed on: 5/31/94 14:57

008934

[CCC AND SPCC DAILY CALIBRATION CHECK OPERATOR REPORT VOA'S]

DATA FILE NAME = >VK923::D3
DATE AND TIME OF ANALYSIS = 5/24/94 8:54
SAMPLE = SYS.#1 CALIB. CHECK
MISCELLANEOUS = 05 24 94 50ug/L Daily 8240 Std. CC940101
METHOD = VOAMS1
INSTRUMENT = VOA I
OPERATOR = CORE1 SUPER GRP

	Retention Times	Response factors	
CCC COMPOUND	DAILY CAL RF	5-POINT AVE RF	%D
Vinyl Chloride	.4105	.4848	15.32
1,1-Dichloroethene	1.1765	1.3427	12.38
Chloroform	3.2254	2.7509	17.25
1,2-Dichloropropane	.3171	.2695	17.65
Toluene	.7486	.6379	17.35
Ethylbenzene	.4663	.4347	7.26

008935

SPCC COMPOUND	DAILY RF
Chloromethane	.3158
1,1-Dichloroethane	2.4269
Bromoform	.5634
1,1,2,2-Tetrachloroethane	.4556
Chlorobenzene	1.0699

DAILY CALIBRATION FOR VOA'S PASSED ALL CCC AND SPCC CRITERIA

THE RF AND RT VALUES WILL AUTOMATICALLY BE UPDATED IN YOUR IDFILE

MJH 05-24-94

[RRT AND RF DAILY CALIBRATION GC/MS OPERATOR REPORT VOA'S]

DATA FILE NAME = >VK923::D3
DATE AND TIME OF ANALYSIS = 5/24/94 8:54
SAMPLE = SYS.#1 CALIB. CHECK
MISCELLANEOUS = 05 24 94 50ug/L Daily 8240 Std. CC940101
METHOD = VOAMS1
INSTRUMENT = VOA I
OPERATOR = CORE1 SUPER GRP

Compound Name	Retention Times: RRT FOUND	RRT IN THE IDFILE	RT DIFF-ERENCE	Response factors: RF FOUND	AVE. RF FROM 5-POINT	RATIO RF FOUND TO RF IN IDFILE
Dichlorodifluoromethane	.60027	.60416	-.0209	1.5661	1.0698	1.14329
Chloromethane	.30880	.31653	-.0407	.31576	.4393	.80124
Vinyl Chloride	.29760	.29788	-.0017	.41053	.4848	.94766
Bromomethane	.34987	.35014	-.0018	.69168	.7042	.99862
Chloroethane	.37229	.37628	-.0212	.25144	.2396	.69425
Trichlorofluoromethane	.45077	.45841	-.0404	1.9976	2.5171	1.2494
Acrolein	.46946	.47336	-.0208	.08362	.0812	1.0387
Acetone	.51055	.51448	-.0210	.19486	.1482	1.0914
1,1-Dichloroethene	.55165	.55557	-.0210	1.1765	1.3427	1.0471
Trichlorotrifluoroethane	.60027	.60416	-.0209	2.4035	2.2177	1.1083
Methylene Chloride	.61898	.61539	.01818	1.2769	.8793	.95027
Carbon Disulfide	.58155	.58546	-.0210	.14703	2.0591	1.0388
Methyl-t-Butyl Ether (MTBE)	.77958	.78714	-.0403	2.1617	2.4435	1.1100
Acrylonitrile	.91782	.91784	-.0010	.00833	.0044	1.4498
trans-1,2-Dichloroethene	.73849	.73860	-.0013	.99978	1.0594	.86929
Hexane	.91782	.92155	-.0204	2.0523	1.2460	******
1,1-Dichloroethane	.79829	.80209	-.0207	2.4269	1.7778	2.2818
cis-1,2-Dichloroethene	.95891	.96265	-.0205	1.0752	1.2006	.86944
Chloroform	1.0187	1.0224	-.0205	3.2254	2.7509	1.0237
1,2-Dichloroethane	1.1831	1.1867	-.0203	2.2829	1.6725	1.2143
Vinyl Acetate	.60980	.61090	-.0206	.44882	.3728	1.1105
2-Butanone (MEK)	.65226	.65059	-.0010	.10512	.0812	1.1493
1,1,1-Trichloroethane	.82748	.82794	-.0203	.85106	.6091	1.1865
Carbon Tetrachloride	.89651	.89679	-.0204	.88669	.6260	1.1791
Benzene	.89385	.89149	-.0008	.86569	.6863	1.1145
Trichloroethene	1.0770	1.0741	-.0010	.51757	.4778	1.0804
1,2-Dichloropropane	1.0637	1.0635	-.0205	.31708	.2695	1.1163
Bromodichloromethane	1.1062	1.1060	-.0206	.62602	.5846	.97234
1,4-Dioxane	1.1355	1.1351	-.0207	.00210	.0027	1.0755
Dibromomethane	1.0717	1.0715	-.0205	.44139	.4187	1.1082
Methyl methacrylate	1.1753	1.1722	-.0012	.19706	.2093	1.1633
2-Chloroethyl vinyl ether	1.2548	1.2542	-.0208	.16065	.1577	1.0835
cis-1,3-Dichloropropene	1.2814	1.2807	-.0208	.52485	.4295	1.1240
trans-1,3-Dichloropropene	1.4088	1.4077	-.0208	.48112	.3741	1.1318
1,1,2-Trichloroethane	1.4274	1.4263	-.0208	.33348	.3021	1.0843
Dibromochloromethane	1.5309	1.5295	-.0211	.53153	.6125	.91439
1,2-Dibromoethane	1.5788	1.5746	-.0016	.53734	.5061	1.0813
Bromoform	1.9503	1.9452	-.0021	.56336	.4672	1.0818
4-Methyl-2-Pentanone	.73016	.73164	-.0208	.22302	.2227	1.0912
Toluene	.78980	.78978	-.0014	.74858	.6379	.97839
2-Hexanone	.86734	.86882	-.0211	.14259	.1357	1.0990

Tetrachloroethene	.90464	.90612	-.0212	.51951	.5062	1.0743
Chlorobenzene	1.0045	1.0060	-.0215	1.0699	.9720	1.0841
Ethylbenzene	1.0522	1.0522	-.0020	.46627	.4347	1.1014
m p-Xylene	1.0731	1.0731	-.0020	.58510	.5614	1.0629
o-Xylene	1.1238	1.1238	-.0022	1.3513	1.2160	1.0944
Styrene	1.1193	1.1193	-.0022	.93543	.9223	1.0538
1,1,2,2-Tetrachloroethane	1.1625	1.1625	-.0022	.45562	.5240	1.0033
1,3-Dichlorobenzene	1.3220	1.3220	-.0024	.90492	.9470	1.0782
1,4-Dichlorobenzene	1.3220	1.3220	-.0024	.90492	1.1383	1.0782
1,2-Dichlorobenzene	1.3653	1.3652	-.0025	1.0534	1.0247	1.1097
1,2-Dibromo-3-chloropropane	1.4308	1.4293	.01688	.16571	.1929	1.0257
Divinylbenzene	1.4771	1.4770	-.0028	.38473	.4661	1.0966
Naphthalene	1.5635	1.5635	-.0027	.92625	1.2485	1.0585
.....					0.0000	.....
1,2-Dichloroethane-d4 (SURR)	1.1606	1.1643	-.0203	1.7817	1.6749	1.1049
Toluene-d8 (SURR)	.77935	.78082	-.0209	1.0636	1.0024	.97794
Bromofluorobenzene (SURR)	1.1849	1.1834	.01727	.78014	.8105	1.0054

[CCC AND SPCC DAILY CALIBRATION CHECK OPERATOR REPORT VOA'S]

DATA FILE NAME = >B0872::D2
DATE AND TIME OF ANALYSIS = 5/31/94 17:30
SAMPLE = Sys.#2 5-PT CALIB.
MISCELLANEOUS = 05 31 94 50ug/L 10ul PURGE
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

	Retention Times	Response factors	
CCC COMPOUND	DAILY CAL RF	5-POINT AVE RF	%D
Vinyl Chloride	.2890	.2709	6.67
1,1-Dichloroethene	1.1920	1.1869	.43
Chloroform	2.5634	2.5029	2.42
1,2-Dichloropropane	.2212	.2193	.85
Toluene	.5945	.5949	.07
Ethylbenzene	.4027	.4000	.68

SPCC COMPOUND	DAILY RF
Chloromethane	.2067
1,1-Dichloroethane	1.5967
Bromoform	.5100
1,1,2,2-Tetrachloroethane	.4997
Chlorobenzene	.9598

FAILED THE DAILY CALIBRATION CHECK ON CCCS AND SPCCS
PRINTING THE DAILY CALIBRATION STATISTICS NOW

008938

[RRT AND RF DAILY CALIBRATION GC/MS OPERATOR REPORT VOA'S]

DATA FILE NAME = >B0872::D2
DATE AND TIME OF ANALYSIS = 5/31/94 17:30
SAMPLE = Sys.#2 5-PT CALIB.
MISCELLANEOUS = 05 31 94 50ug/L 10ul PURGE
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

Compound Name	Retention Times: RRT FOUND	RRT IN THE IDFILE	RT DIFF-ERENCE	Response factors: RF FOUND	AVE. RF FROM 5-POINT	RATIO RF FOUND TO RF IN IDFILE
Dichlorodifluoromethane	.47949	.47805	-.0341	1.5192	1.1776	1.2901
Chloromethane	.32909	.32728	-.0166	.20671	.1921	1.0761
Vinyl Chloride	.33148	.33062	-.0247	.28896	.2709	1.0666
Bromomethane	.38636	.38547	-.0297	.67711	.5809	1.1655
Chloroethane	.38636	.38594	-.0336	.26879	.2284	1.1767
Trichlorofluoromethane	.42217	.42126	-.0329	2.3072	2.0850	1.1066
Acrolein	.47710	.47948	-.0654	.06808	.0642	1.0601
Acetone	.48906	.49191	-.0704	.16226	.1514	1.0717
1,1-Dichloroethene	.50818	.50959	-.0603	1.1920	1.1869	1.0042
Trichlorotrifluoroethane	.47949	.47853	-.0380	3.5387	2.8063	1.2610
M hylene Chloride	.60131	.60599	-.0962	.84373	.8529	.98931
(on Disulfide	.60609	.60599	-.0573	.08824	1.7306	.05099
Methyl-t-Butyl Ether (MTBE)	.62281	.62551	-.0820	1.6134	2.2753	.70909
Acrylonitrile	.00000	.87599	-7.225	.00000	.0019	.00000
trans-1,2-Dichloroethene	.65150	.65134	-.0611	.89049	.8893	1.0014
Hexane	.00000	.87602	-7.225	.00000	.1987	.00000
1,1-Dichloroethane	.75651	.75675	-.0745	1.5967	1.5404	1.0366
cis-1,2-Dichloroethene	.91166	.91175	-.0881	1.0612	1.0438	1.0167
Chloroform	.95226	.95277	-.0955	2.5634	2.5029	1.0242
1,2-Dichloroethane	1.1887	1.1875	-.1041	1.5709	1.4781	1.0627
Vinyl Acetate	.59728	.59941	-.0439	.39579	.3590	1.1025
2-Butanone (MEK)	.68530	.68820	-.0552	.06734	.0628	1.0725
1,1,1-Trichloroethane	.82954	.83023	-.0375	.60886	.6011	1.0130
Carbon Tetrachloride	.88200	.88194	-.0316	.62945	.6303	.99865
Benzene	.92511	.92617	-.0449	.60743	.6003	1.0118
Trichloroethene	1.0674	1.0674	-.0395	.47754	.4675	1.0215
1,2-Dichloropropane	1.1180	1.1176	-.0376	.22117	.2193	1.0084
Bromodichloromethane	1.1760	1.1769	-.0515	.54143	.5540	.97726
1,4-Dioxane	1.1930	1.1938	-.0519	.00245	.0030	.80408
Dibromomethane	1.1892	1.1900	-.0518	.51614	.5080	1.0160
Methyl methacrylate	1.1479	1.1476	-.0389	.19410	.1897	1.0229
2-Chloroethyl vinyl ether	1.2698	1.2702	-.0506	.15036	.1432	1.0502
cis-1,3-Dichloropropene	1.3204	1.3201	-.0449	.43278	.4028	1.0745
trans-1,3-Dichloropropene	1.4571	1.4572	-.0545	.39010	.3807	1.0247
1,1,2-Trichloroethane	1.4945	1.4940	-.0484	.31124	.2941	1.0581
Dibromochloromethane	1.6238	1.6240	-.0620	.63483	.6502	.97637
1 Dibromoethane	1.6762	1.6753	-.0525	.54368	.5170	1.0517
B oform	2.0582	2.0571	-.0631	.51004	.5187	.98332
4-Methyl-2-Pentanone	.71478	.71639	-.0397	.24720	.2299	1.0751
Toluene	.78219	.78237	-.0143	.59448	.5949	.99929
2-Hexanone	.84533	.84665	-.0362	.15681	.1446	1.0846

Tetrachloroethene	.87481	.87489	-.0138	.59282	.5870	1.0100
Chlorobenzene	1.0053	1.0057	-.0219	.95983	.9258	1.0367
Ethylbenzene	1.0148	1.0154	-.0257	.40272	.4000	1.0068
m- p-Xylene	1.0959	1.0957	-.0119	.24542	.2382	1.0305
o-Xylene	1.0959	1.0959	-.0158	1.1063	1.0807	1.0237
Styrene	1.1043	1.1043	-.0160	.85145	.8194	1.0391
1,1,2,2-Tetrachloroethane	1.1906	1.1913	-.0304	.49970	.4719	1.0589
1,3-Dichlorobenzene	1.3736	1.3740	-.0275	1.0571	1.0334	1.0229
1,4-Dichlorobenzene	1.3915	1.3919	-.0281	1.0840	1.0568	1.0258
1,2-Dichlorobenzene	1.4430	1.4431	-.0221	.95220	.9313	1.0224
1,2-Dibromo-3-chloropropane	1.5419	1.5423	-.0293	.15540	.1490	1.0430
Divinylbenzene	1.5335	1.5341	-.0329	.38298	.4332	.88403
Naphthalene	1.6566	1.6573	-.0366	.82628	.9869	.83724
.....					0.0000	.....
1,2-Dichloroethane-d4 (SURR)	1.1600	1.1584	-.0978	1.3638	1.2946	1.0535
Toluene-d8 (SURR)	.77059	.77097	-.0178	1.0214	1.0132	1.0080
Bromofluorobenzene (SURR)	1.1969	1.1964	-.0071	.86283	1.0669	.80871

Calibration Report

Title: SYSTEM #2: VOLATILE ORGANICS BY EPA METHODS 8240 & 624
Calibrated: 940316 00:28

Compound	Files: >B0064 RF 10.00	>B0065 RF 50.00	>B0066 RF 100.00	>B0067 RF 250.00	>B0068 RF 500.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CORR1	CORR2	
Dichlorodifluoromethane	.59469	.68772	.68433	.64611	.64755	.304	.65208	5.768	.999911	.999915	
Chloromethane	.23029	.39471	.30983	.32574	.33596	.336	.31931	18.540	.999420	.999532	
Vinyl Chloride	.35721	.39906	.44298	.47226	.48203	.343	.43071	12.127	.999906	.999940	
Bromomethane	.36520	.84453	.91061	.81842	.84832	.394	.75742	29.291	.999520	.999525	
Chloroethane	.19956	.29597	.31443	.29338	.33503	.397	.28767	18.083	.998088	.999592	
Trichlorofluoromethane	5.00499	3.39048	3.47239	3.58588	3.11097	.431	3.71294	20.018	.997128	.999453	
Acrolein	.04111	.02995	.03091	.03098	.02863	.488	.03232	15.491	.999182	.999863	(Conc=100.0,500.0,
Acetone	.26601	.17071	.17884	.16902	.15515	.500	.18795	23.658	.999053	.999908	(Conc=100.0,500.0,
1,1-Dichloroethene	.70625	.89529	.95813	.89701	.87067	.519	.86547	10.939	.999671	.999928	
Methylene Chloride	.81161	.79412	.81622	.74833	.76590	.612	.78724	3.731	.999785	.999812	
Carbon Disulfide	3.07029	2.23718	2.34267	2.37403	1.86546	.615	2.37792	18.367	.990697	.998487	(Conc=100.0,500.0,
Methyl-t-Butyl Ether (MTBE)	2.08761	2.54606	2.66012	2.35386	2.35719	.635	2.40097	9.090	.999608	.999650	
Acrylonitrile	.08992	.07453	.07979	.07745	.07253	.641	.07884	8.604	.999352	.999944	(Conc=100.0,500.0,
cis-1,2-Dichloroethene	.83656	.95247	.98947	.92579	.93040	.660	.92694	6.089	.999885	.999889	
Hexane	.97725	1.00081	1.00299	1.25529	1.06737	.657	1.06074	10.727	.995116	.998171	
1,1-Dichloroethane	2.25923	1.63569	1.69907	1.77308	1.73974	.762	1.82136	13.730	.999863	.999877	
trans-1,2-Dichloroethene	.92417	1.06134	1.15845	1.08694	1.09208	.914	1.06459	8.107	.999869	.999878	
Chloroform	4.05787	2.78088	2.87090	2.98866	2.91805	.955	3.12327	16.902	.999836	.999859	
1,2-Dichloroethane-d4 (SURR)	1.71455	1.68510	1.72624	1.69412	1.64292	1.155	1.69259	1.901	-	--	(Conc=50.0,50.0,50
1,2-Dichloroethane	2.64678	1.90025	2.00527	2.02648	1.97791	1.183	2.11134	14.356	.999878	.999920	
Vinyl Acetate	.21536	.19167	.20219	.20435	.19787	.605	.20229	4.334	.999828	.999955	(Conc=100.0,500.0,
2-Butanone (MEK)	.07934	.05851	.06137	.06093	.05750	.692	.06353	14.142	.999547	.999915	(Conc=100.0,500.0,
1,1,1-Trichloroethane	1.11000	.76257	.79289	.82308	.81569	.833	.86085	16.410	.999886	.999887	
Carbon Tetrachloride	1.01368	.70632	.74337	.76324	.77354	.884	.80003	15.269	.999874	.999928	
Benzene	.80173	.57800	.58510	.60883	.58767	.928	.63227	15.093	.999784	.999864	
Trichloroethene	.61831	.41944	.43521	.46218	.43975	1.066	.47498	17.174	.999542	.999733	
1,2-Dichloropropane	.30042	.21372	.21889	.22871	.22105	1.115	.23656	15.262	.999773	.999847	
Bromodichloromethane	.61380	.65122	.67922	.67154	.66379	1.174	.65591	3.920	.999961	.999993	
1,4-Dioxane	.00324	.00247	.00256	.00247	.00231	1.188	.00261	13.927	.999369	.999953	(Conc=500.0,2500.0
Dibromomethane	.34419	.39489	.41652	.38874	.39648	1.187	.38816	6.879	.999845	.999852	
2-Chloroethyl vinyl ether	.18702	.14223	.15277	.16077	.15267	1.265	.15909	10.650	.999513	.999784	
cis-1,3-Dichloropropene	.58599	.40637	.42201	.43995	.43528	1.314	.45792	15.892	.999878	.999878	
trans-1,3-Dichloropropene	.70181	.50200	.51587	.53788	.52243	1.447	.55600	14.843	.999813	.999862	
1,1,2-Trichloroethane	.43540	.29283	.31088	.30800	.29617	1.485	.32865	18.304	.999771	.999908	
Dibromochloromethane	.63534	.69451	.73732	.71523	.73126	1.613	.70273	5.857	.999924	.999950	
1,2-Dibromoethane	.38974	.48656	.50418	.46483	.48214	1.664	.46549	9.581	.999699	.999759	
Bromoform	.68200	.50769	.54849	.56702	.53624	2.041	.56829	11.812	.999481	.999814	

RF - Response Factor (Subscript is amount in ug/L)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CORRn - Coefficient of Correlation (nth degree)

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008941

8941

3-15-9

Calibration Report

Title: SYSTEM #2: VOLATILE ORGANICS BY EPA METHODS 8240 & 624
Calibrated: 940316 00:28

Compound	Files: >B0064 RF 10.00	>B0065 RF 50.00	>B0066 RF 100.00	>B0067 RF 250.00	>B0068 RF 500.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CORR1	CORR2	
4-Methyl-2-Pentanone	.31985	.23395	.24846	.30893	.22750	.719	.26774	16.221	.983175	.994527	(Conc=100.0,500.0,
Toluene-d8 (SURR)	1.07919	1.05613	1.06337	1.08965	1.06420	.773	1.07051	1.270	-	-	(Conc=50.0,50.0,50
Toluene	.97003	.65082	.64928	.67626	.63105	.784	.71549	20.014	.999352	.999756	
2-Hexanone	.20645	.15563	.16004	.15969	.14250	.847	.16486	14.748	.998211	.999785	(Conc=100.0,500.0,
Tetrachloroethene	.77196	.53315	.51942	.56932	.52118	.876	.58301	18.442	.998787	.999473	
Chlorobenzene	1.41357	.93457	.99232	1.04966	.94743	1.000	1.06751	18.607	.998408	.999526	
Ethylbenzene	.63706	.42038	.42658	.44344	.41410	1.016	.46831	20.278	.999348	.999752	
m & p-Xylene	.78073	.52729	.54666	.56301	.52144	1.027	.58783	18.557	.999180	.999758	(Conc=20.0,100.0,2
o-Xylene	1.81999	1.21835	1.27253	1.32343	1.25462	1.096	1.37778	18.151	.999544	.999784	
Styrene	1.23746	.84215	.90011	.92935	.83850	1.104	.94951	17.434	.998448	.999639	
1,1,2,2-Tetrachloroethane	.69475	.51071	.54458	.52890	.48070	1.190	.55193	15.092	.998706	.999876	
Bromofluorobenzene (SURR)	.79997	.88539	1.04359	1.38267	1.84005	1.195	1.19033	35.792	-	-	(Conc=50.0,50.0,50
1,3-Dichlorobenzene	1.44779	1.00168	1.02586	1.05689	.99704	1.372	1.10585	17.418	.999525	.999823	
1,4-Dichlorobenzene	1.52216	1.05967	1.10284	1.09645	1.03625	1.390	1.16347	17.392	.999588	.999905	
1,2-Dichlorobenzene	1.32660	.91864	.94472	.95656	.87783	1.441	1.00487	18.149	.999023	.999800	
1,2-Dibromo-3-chloropropane	.11084	.15817	.17157	.15869	.14840	1.539	.14953	15.479	.998952	.999945	
Naphthalene	.57396	1.01403	1.08017	.93662	.93798	1.653	.90855	21.609	.999337	.999450	

008946

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RF - Response Factor (Subscript is amount in ug/L)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CORRn - Coefficient of Correlation (nth degree)

008942

8942

Calibration Report

Title: SYSTEM #1: VOLATILE ORGANICS BY EPA METHODS 8240 & 624
Calibrated: 940602 08:34

Compound	Files: >B0871 RF 10.00	>B0872 RF 50.00	>B0873 RF 100.00	>B0874 RF 250.00	>B0875 RF 500.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CORR1	CORR2	
Dichlorodifluoromethane	1.43957	1.51921	1.02484	.98854	.91598	.478	1.17763	23.748	.998311	.998971	
Chloromethane	~~.17101~~	~~.20671~~	~~.20029~~	~~.19428~~	~~.18818~~	.327	~~.19209~~	~~7.108~~	.999805	.999984	*
Vinyl Chloride	.26377	.28896	.28176	.26059	.25951	.331	.27092	4.989	.999851	.999870	
Bromomethane	.56947	.67711	.69940	.55761	.40108	.385	.58094	20.423	.976711	.998601	
Chloroethane	.19769	.26879	.28093	.23046	.16429	.386	.22843	21.275	.975769	.998047	
Trichlorofluoromethane	2.37193	2.30721	2.30632	2.26397	1.17561	.421	2.08501	24.452	.904254	.916220	
Acrolein	.05820	.06808	.06737	.06578	.06167	.479	.06422	6.515	.999362	.999997	(Conc=100.0,500.0,
Acetone	.16665	.16226	.15034	.14332	.13450	.492	.15141	8.754	.999460	.999984	(Conc=100.0,500.0,
1,1-Dichloroethene	1.03892	1.19197	1.23297	1.23436	1.23652	.510	1.18695	7.144	.999997	.999998	
Trichlorotrifluoroethane	3.48455	3.53873	2.45333	2.35039	2.20441	.479	2.80628	23.170	.998703	.999128	
Methylene Chloride	.88534	.84373	.87330	.85331	.80857	.606	.85285	3.477	.999572	.999985	
Carbon Disulfide	1.54159	1.76489	1.79471	1.88975	1.66213	.606	1.73061	7.700	.997433	.999629	(Conc=5.00,25.0,50
Methyl-t-Butyl Ether (MTBE)	2.21635	2.35552	2.28154	2.24765	-	.626	2.27527	2.626	.999938	.999978	
Acrylonitrile	-	.00160	.00203	.00218	.00197	.876	.00195	12.477	.997547	.999974	(Conc=100.0,500.0,
trans-1,2-Dichloroethene	.75664	.89049	.92812	.93129	.93983	.651	.88927	8.605	.999994	.999996	
Hexane	.19170	-	.20670	.20561	.19062	.876	.19866	4.369	.999058	.999961	
1,1-Dichloroethane	1.49221	1.59671	1.53510	1.57685	1.50090	.757	1.54035	2.977	.999657	.999941	
cis-1,2-Dichloroethene	.88825	1.06124	1.07534	1.09714	1.09691	.912	1.04378	8.456	.999997	.999998	
Chloroform	2.54874	2.56339	2.49141	2.48370	2.42713	.953	2.50288	2.189	.999934	.999995	
1,2-Dichloroethane-d4 (SURR)	1.31391	1.36381	1.29689	1.27407	1.22425	1.158	1.29459	3.965	-	-	(Conc=50.0,50.0,50
1,2-Dichloroethane	1.43739	1.57085	1.49864	1.49288	1.39087	1.187	1.47813	4.602	.999304	.999964	
Vinyl Acetate	.35995	.39579	.38505	.39018	.26405	.599	.35900	15.270	.971688	.992183	(Conc=100.0,500.0,
2-Butanone (MEK)	.06279	.06734	.06123	.06238	.06019	.688	.06279	4.365	.999808	.999935	(Conc=100.0,500.0,
1,1-Trichloroethane	.57511	.60886	.59994	.62124	.60017	.830	.60107	2.813	.999816	.999950	
Carbon Tetrachloride	.56289	.62945	.63666	.66877	.65372	.882	.63030	6.451	.999883	.999946	
Benzene	.58109	.60743	.59343	.61874	.60098	.926	.60033	2.367	.999856	.999942	
Trichloroethene	.44519	.47754	.46396	.48017	.47067	1.067	.46751	2.990	.999925	.999965	
1,2-Dichloropropane	.20148	.22117	.22248	.22889	.22266	1.118	.21934	4.752	.999874	.999972	
Bromodichloromethane	.44868	.54143	.57357	.59773	.60873	1.177	.55403	11.607	.999964	.999989	
1,4-Dioxane	.00213	.00245	.00218	.00351	.00495	1.194	.00304	39.566	.953042	.991728	(Conc=500.0,2500.0
Dibromomethane	.48329	.51614	.51234	.51980	.50860	1.190	.50804	2.845	.999929	.999989	
Methyl methacrylate	.18149	.19410	.19256	.19395	.18663	1.148	.18974	2.916	.999791	.999986	
2-Chloroethyl vinyl ether	.12965	.15036	.14624	.14557	.14404	1.270	.14317	5.527	.999971	.999992	
cis-1,3-Dichloropropene	.35107	.43278	.40045	.41724	.41230	1.320	.40277	7.732	.999923	.999937	
trans-1,3-Dichloropropene	.32354	.39010	.38858	.40939	.39183	1.457	.38069	8.677	.999670	.999915	
1,1,2-Trichloroethane	.27230	.31124	.30176	.30070	.28473	1.494	.29414	5.264	.999571	.999983	
Dibromochloromethane	.46711	.63483	.69015	.73159	.72730	1.624	.65020	16.834	.999938	.999955	

RF - Response Factor (Subscript is amount in ug/L)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CORRn - Coefficient of Correlation (nth degree)

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* Chloromethane 5-point RFs retained from previ calibration of 3/16/94.
6-2-94

008943

8943

Calibration Report

Title: SYSTEM #1: VOLATILE ORGANICS BY EPA METHODS 8240 & 624
Calibrated: 940602 08:54

Compound	Files: >B0871 RF 10.00	>B0872 RF 50.00	>B0873 RF 100.00	>B0874 RF 250.00	>B0875 RF 500.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CORR1	CORR2	
1,2-Dibromoethane	.46169	.54368	.52905	.53988	.51048	1.675	.51695	6.475	.999538	.999954	
Bromoform	.35121	.51004	.54335	.59896	.58988	2.057	.51869	19.338	.999830	.999873	
4-Methyl-2-Pentanone	.22818	.24720	.22962	.22758	.21711	.716	.22994	4.720	.999695	.999971	(Conc=100.0,500.0,
Toluene-d8 (SURR)	1.01612	1.02138	1.00695	1.01556	1.00619	.771	1.01324	.642	-	-	(Conc=50.0,50.0,50
Toluene	.63552	.59448	.56785	.59635	.58028	.782	.59490	4.284	.999861	.999913	
2-Hexanone	.14560	.15681	.14672	.14181	.13197	.847	.14458	6.204	.999269	.999982	(Conc=100.0,500.0,
Tetrachloroethene	.58910	.59282	.57762	.59410	.58113	.875	.58695	1.238	.999923	.999969	
Chlorobenzene	.89599	.95983	.91209	.93438	.92677	1.006	.92581	2.595	.999971	.999975	
Ethylbenzene	.40341	.40272	.40150	.39951	.39276	1.015	.39998	1.075	.999962	1.00000	
m & p-Xylene	.23222	.24542	.23121	.24486	.23709	1.096	.23816	2.835	.999801	.999893	(Conc=20.0,100.0,2
o-Xylene	1.05947	1.10630	1.06946	1.10260	1.06550	1.096	1.08067	2.040	.999828	.999953	
Styrene	.73504	.85145	.82029	.85412	.83618	1.104	.81942	5.989	.999906	.999955	
1,1,2,2-Tetrachloroethane	.45144	.49970	.48714	.48733	.43400	1.191	.47192	5.897	.998024	.999870	
Bromofluorobenzene (SURR)	.78330	.86283	.94607	1.21144	1.53096	1.196	1.06692	28.618	-	-	(Conc=50.0,50.0,50
1,3-Dichlorobenzene	.99878	1.05714	1.03454	1.05626	1.02042	1.374	1.03343	2.397	.999831	.999971	
1,4-Dichlorobenzene	1.04192	1.08405	1.05562	1.07969	1.02280	1.392	1.05682	2.433	.999594	.999944	
1,2-Dichlorobenzene	.91221	.95220	.93437	.97639	.88138	1.443	.93131	3.922	.998461	.999763	
1,2-Dibromo-3-chloropropane	.11171	.15536	.16489	.16369	.14936	1.542	.14900	14.624	.998581	.999952	
Divinylbenzene	.37557	.38298	.47625	.48016	.45114	1.534	.43322	11.670	.999097	.999804	
Naphthalene	1.01817	.82628	1.09431	1.02443	.97133	1.657	.98690	10.128	.998995	.999670	

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RF - Response Factor (Subscript is amount in ug/L)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CORRn - Coefficient of Correlation (nth degree)

008944

8944

Calibration Report

Title: SYSTEM #1: VOLATILE ORGANICS BY EPA METHODS 8240 & 624
Calibrated: 940428 15:06

Compound	Files: >V8636 RF 10.00	>V8637 RF 50.00	>V8638 RF 100.00	>V8639 RF 250.00	>V8640 RF 500.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CORR1	CORR2	
Dichlorodifluoromethane	1.30410	1.15673	1.02372	.90436	.96016	.600	1.06981	15.070	.999055	.999484	
Chloromethane	.54347	.44051	.38543	.41462	.41263	.307	.43933	13.974	.999795	.999810	
Vinyl Chloride	.61995	.52586	.46535	.41708	.39567	.301	.48478	18.696	.999527	.999874	
Bromomethane	.91340	.73190	.66010	.58600	.62939	.352	.70416	18.248	.998908	.999579	
Chloroethane	.32329	.23262	.24198	.21430	.18600	.373	.23964	21.453	.996882	.999927	
Trichlorofluoromethane	2.84009	2.61842	2.69384	2.21154	2.22166	.449	2.51711	11.350	.999143	.999181	
Acrolein	.07308	.07512	.07757	.08483	.09530	.467	.08118	11.154	.998437	.999980	(Conc=100.0,500.0,
Acetone	.17507	.14022	.13915	.14462	.14201	.503	.14821	10.225	.999915	.999927	(Conc=100.0,500.0,
1,1-Dichloroethene	1.50238	1.41939	1.16503	1.27278	1.35386	.547	1.34269	9.708	.999070	.999745	
Trichlorotrifluoroethane	2.55363	2.36544	2.15613	1.92083	2.09251	.599	2.21771	11.097	.998670	.999486	
Methylene Chloride	1.26709	.82035	.64324	.81768	.84830	.636	.87933	26.325	.998418	.998864	
Carbon Disulfide	2.57648	2.28389	1.93183	1.40217	2.10092	.581	2.05906	21.277	.982379	.995374	(Conc=5.00,25.0,50
Methyl-t-Butyl Ether (MTBE)	2.65787	2.57111	2.69259	2.14265	2.15306	.796	2.44345	11.192	.998753	.998836	
Acrylonitrile	.00578	.00541	.00563	.00301	.00240	.913	.00445	36.162	.965448	.993296	(Conc=100.0,500.0,
trans-1,2-Dichloroethene	1.10922	1.14704	1.09065	.93837	1.01178	.734	1.05941	7.905	.998765	.999231	
Hexane	1.61965	1.37136	1.32509	.97514	.93854	.914	1.24596	23.035	.997446	.998213	
1,1-Dichloroethane	2.03358	1.90997	1.87658	1.51835	1.55040	.801	1.77777	12.940	.998948	.998948	
cis-1,2-Dichloroethene	1.24877	1.26844	1.23056	1.22736	1.02774	.957	1.20057	8.163	.995196	.999551	
Chloroform	3.02232	2.78778	2.78736	2.73751	2.41969	1.024	2.75093	7.844	.997812	.999866	
1,2-Dichloroethane-d4 (SURR)	1.41857	1.48454	1.51362	1.72947	2.22828	1.161	1.67490	19.738	-1.0000	-	(Conc=50.0,50.0,50
2-Dichloroethane	1.72691	1.67735	1.72516	1.62810	1.60493	1.183	1.67249	3.315	.999902	.999953	
yl Acetate	.41357	.39887	.42829	.35596	.26729	.624	.37279	17.403	.983811	.999183	(Conc=100.0,500.0,
2-Butanone (MEK)	.10088	.09328	.09806	.06816	.04562	.672	.08120	29.233	.958538	.996716	(Conc=100.0,500.0,
1,1,1-Trichloroethane	.62475	.61431	.63709	.61277	.55653	.828	.60909	5.082	.998588	.999964	
Carbon Tetrachloride	.64312	.63609	.65455	.61640	.57979	.896	.62599	4.683	.999379	.999986	
Benzene	.74317	.70768	.72250	.67111	.58715	.894	.68632	8.941	.997199	.999955	
Trichloroethene	.50164	.48624	.50386	.46057	.43669	1.073	.47780	6.017	.999413	.999936	
1,2-Dichloropropane	.28667	.26621	.27718	.26831	.24888	1.062	.26945	5.220	.999162	.999972	
Bromodichloromethane	.57615	.58355	.58501	.59843	.57982	1.107	.58459	1.448	.999853	.999970	
1,4-Dioxane	.00242	.00241	.00247	.00419	.00181	1.145	.00266	33.764	.795547	.942945	(Conc=500.0,2500.0
Dibromomethane	.43357	.41362	.44842	.40507	.39264	1.070	.41866	5.335	.999584	.999841	
Methyl methacrylate	.20465	.19653	.21104	.21236	.22170	1.173	.20926	4.475	.999782	.999977	
2-Chloroethyl vinyl ether	.14498	.14945	.16337	.16144	.16950	1.250	.15775	6.460	.999735	.999948	
cis-1,3-Dichloropropene	.40120	.41372	.44515	.44662	.44098	1.275	.42953	4.827	.999943	.999979	
trans-1,3-Dichloropropene	.35531	.35714	.38114	.38857	.38857	1.406	.37415	4.451	.999978	.999979	
1,1,2-Trichloroethane	.28899	.29479	.31675	.30848	.30158	1.425	.30212	3.629	.999868	.999975	
Dibromochloromethane	.54439	.59701	.61569	.65544	.65014	1.524	.61253	7.370	.999928	.999935	

RF - Response Factor (Subscript is amount in ug/L)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

Rn - Coefficient of Correlation (nth degree)

008945

8945

Calibration Report

Title: SYSTEM #1: VOLATILE ORGANICS BY EPA METHODS 8240 & 624
Calibrated: 940428 15:06

Compound	Files: >V8636 RF 10.00	>V8637 RF 50.00	>V8638 RF 100.00	>V8639 RF 250.00	>V8640 RF 500.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CORR1	CORR2	
1,2-Dibromoethane	.48052	.49212	.51859	.52728	.51194	1.568	.50609	3.812	.999843	.999969	
Bromoform	.44425	.48803	.53772	.52275	.34339	1.927	.46723	16.698	.965387	.989776	
4-Methyl-2-Pentanone	.22187	.21416	.22214	.22593	.22920	.744	.22266	2.527	.999967	.999992	(Conc=100.0,500.0,
Toluene-d8 (SURR)	1.00183	1.01725	.98654	1.00830	.99788	.782	1.00236	1.146	-	-	(Conc=50.0,50.0,50
Toluene	.69598	.63183	.63541	.62433	.60180	.793	.63787	5.489	.999830	.999995	
2-Hexanone	.13743	.13784	.14321	.14581	.11412	.873	.13568	9.263	.990009	.998525	(Conc=100.0,500.0,
Tetrachloroethene	.51558	.52050	.51086	.50138	.48244	.908	.50615	2.967	.999801	.999999	
Chlorobenzene	.98050	.96471	1.01337	.96864	.93259	1.005	.97196	3.000	.999728	.999978	
Ethylbenzene	.44940	.43968	.44547	.43271	.40610	1.051	.43467	3.950	.999421	.999992	
m & p-Xylene	.58943	.57053	.56750	.54611	.53334	1.071	.56138	3.910	.999908	.999991	(Conc=20.0,100.0,2
o-Xylene	1.31524	1.22467	1.22216	1.18705	1.13067	1.121	1.21596	5.529	.999686	.999998	
Styrene	.92469	.93190	.95589	.92032	.87876	1.116	.92231	3.031	.999658	.999994	
1,1,2,2-Tetrachloroethane	.52030	.51426	.52809	.52364	.53371	1.159	.52400	1.414	.999955	.999991	
Bromofluorobenzene (SURR)	.83268	.80725	.78957	.80594	.81699	1.180	.81049	1.955	-	-	(Conc=50.0,50.0,50
1,3-Dichlorobenzene	.87589	.90970	.95501	.95867	1.03588	1.316	.94703	6.368	.999333	.999972	
1,4-Dichlorobenzene	1.19548	1.16875	1.15562	1.13582	1.03588	1.324	1.13831	5.379	.998814	.999951	
1,2-Dichlorobenzene	1.00184	1.01891	1.04963	1.02465	1.02838	1.359	1.02468	1.684	.999984	.999984	
1,2-Dibromo-3-chloropropane	.16438	.18432	.19619	.20023	.21923	1.421	.19287	10.513	.999129	.999979	
Divinylbenzene	.40765	.43584	.46512	.49429	.52776	1.467	.46613	10.136	.999506	.999983	
Naphthalene	1.13517	1.18231	1.25930	1.30197	1.36374	1.554	1.24850	7.328	.999758	.999990	

RF - Response Factor (Subscript is amount in ug/L)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

Rn - Coefficient of Correlation (nth degree)

008946

8946

WESTERN ATLAS

Core Laboratories

CORE LABORATORIES
A N A L Y T I C A L R E P O R T

Job Number: 942349
Prepared For:

JONES & NEUSE, INC.
MICHAEL WHITEHEAD
12655 N. CENTRAL EXPY.-SUITE 323
DALLAS, TX 75243

Date: 07/21/94

008947

Dana L. Harper
Signature

07/21/94
Date:

Name: DANA L. HARPER

Core Laboratories
3645 Beglis Parkway
Sulphur, LA 70663

Title: LABORATORY MANAGER

008947

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8947

WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SB-21-03-54 (12-14')
DATE SAMPLED.....: 05/18/94
TIME SAMPLED.....: 08:50
WORK DESCRIPTION...: 153503.03

LABORATORY I.D...: 942349-0001
DATE RECEIVED....: 05/23/94
TIME RECEIVED....: 08:00
REMARKS.....: SAMPLED BY: WHITEHEAD/VICKERY

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Semi-volatile Organic Contaminants		*330		SW-846/8270	06/07/94	DFM
Acenaphthene	ND	3300	ug/kg	SW-846/8270		
Acenaphthylene	ND	3300	ug/kg	SW-846/8270		
Anthracene	ND	3300	ug/kg	SW-846/8270		
Benzo(a)anthracene	ND	3300	ug/kg	SW-846/8270		
Benzo(b)fluoranthene	ND	3300	ug/kg	SW-846/8270		
Benzo(k)fluoranthene	ND	3300	ug/kg	SW-846/8270		
Benzo(ghi)perylene	ND	3300	ug/kg	SW-846/8270		
Benzo(a)pyrene	ND	3300	ug/kg	SW-846/8270		
Bis(2-chloroethoxy)methane	ND	3300	ug/kg	SW-846/8270		
Bis(2-chloroethyl)ether	ND	3300	ug/kg	SW-846/8270		
Bis(2-chloroisopropyl)ether	ND	3300	ug/kg	SW-846/8270		
Bis(2-ethylhexyl) phthalate	4690	3300	ug/kg	SW-846/8270		
4-Bromophenyl phenyl ether	ND	3300	ug/kg	SW-846/8270		
Butyl benzyl phthalate	ND	3300	ug/kg	SW-846/8270		
Carbazole	ND	3300	ug/kg	SW-846/8270		
4-Chloroaniline	ND	3300	ug/kg	SW-846/8270		
4-Chloro-3-methylphenol	ND	3300	ug/kg	SW-846/8270		
2-Chloronaphthalene	ND	3300	ug/kg	SW-846/8270		
2-Chlorophenol	ND	3300	ug/kg	SW-846/8270		
4-Chlorophenyl phenyl ether	ND	3300	ug/kg	SW-846/8270		
Chrysene	ND	3300	ug/kg	SW-846/8270		
2-Methylphenol	ND	3300	ug/kg	SW-846/8270		
4-Methylphenol	ND	3300	ug/kg	SW-846/8270		
Dibenzo(a,h)anthracene	ND	3300	ug/kg	SW-846/8270		
Dibenzofuran	ND	3300	ug/kg	SW-846/8270		
Di-n-butyl phthalate	ND	3300	ug/kg	SW-846/8270		
1,2-Dichlorobenzene	ND	3300	ug/kg	SW-846/8270		
1,3-Dichlorobenzene	ND	3300	ug/kg	SW-846/8270		
1,4-Dichlorobenzene	ND	3300	ug/kg	SW-846/8270		
3,3'-Dichlorobenzidine	ND	3300	ug/kg	SW-846/8270		
2,4-Dichlorophenol	ND	3300	ug/kg	SW-846/8270		
Diethyl phthalate	ND	3300	ug/kg	SW-846/8270		
2,4-Dimethylphenol	ND	3300	ug/kg	SW-846/8270		
Dimethyl phthalate	ND	3300	ug/kg	SW-846/8270		
2,4-Dinitrophenol	ND	8250	ug/kg	SW-846/8270		
2,4-Dinitrotoluene	ND	3300	ug/kg	SW-846/8270		
2,6-Dinitrotoluene	ND	3300	ug/kg	SW-846/8270		
Di-n-octyl phthalate	ND	3300	ug/kg	SW-846/8270		
Fluoranthene	ND	3300	ug/kg	SW-846/8270		
Fluorene	ND	3300	ug/kg	SW-846/8270		
Hexachlorobenzene	ND	3300	ug/kg	SW-846/8270		
Hexachlorobutadiene	ND	3300	ug/kg	SW-846/8270		
Hexachlorocyclopentadiene	ND	3300	ug/kg	SW-846/8270		

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8948

WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SB-21-03-54 (12-14')
DATE SAMPLED.....: 05/18/94
TIME SAMPLED.....: 08:50
WORK DESCRIPTION...: 153503.03

LABORATORY I.D...: 942349-0001
DATE RECEIVED....: 05/23/94
TIME RECEIVED....: 08:00
REMARKS.....: SAMPLED BY: WHITEHEAD/VICKERY

008949

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Hexachloroethane	ND	3300	ug/kg	SW-846/8270		
Indenol(1,2,3-cd)pyrene	ND	3300	ug/kg	SW-846/8270		
Isophorone	ND	3300	ug/kg	SW-846/8270		
2-Methyl-4,6-dinitrophenol	ND	8250	ug/kg	SW-846/8270		
2-Methylnaphthalene	ND	3300	ug/kg	SW-846/8270		
Naphthalene	ND	3300	ug/kg	SW-846/8270		
2-Nitroaniline	ND	8250	ug/kg	SW-846/8270		
3-Nitroaniline	ND	8250	ug/kg	SW-846/8270		
4-Nitroaniline	ND	8250	ug/kg	SW-846/8270		
Nitrobenzene	ND	3300	ug/kg	SW-846/8270		
2-Nitrophenol	ND	3300	ug/kg	SW-846/8270		
4-Nitrophenol	ND	8250	ug/kg	SW-846/8270		
N-Nitrosodiphenylamine	ND	3300	ug/kg	SW-846/8270		
N-Nitrosodi-n-propylamine	ND	3300	ug/kg	SW-846/8270		
Pentachlorophenol	ND	8250	ug/kg	SW-846/8270		
Phenanthrene	ND	3300	ug/kg	SW-846/8270		
Phenol	ND	3300	ug/kg	SW-846/8270		
Pyrene	ND	3300	ug/kg	SW-846/8270		
1,2,4-Trichlorobenzene	ND	3300	ug/kg	SW-846/8270		
2,4,6-Trichlorophenol	ND	3300	ug/kg	SW-846/8270		
2,4,5-Trichlorophenol	ND	8250	ug/kg	SW-846/8270		
Semivolatile Organics Extraction	COMPLETE			SW-846 3550	05/25/94	CMG
Volatile Organic Contaminants		*1		SW-846/8240	06/01/94	MJH
Acetone	3770	1000	ug/kg	SW-846/8240		
Benzene	ND	10	ug/kg	SW-846/8240		
Bromodichloromethane	ND	10	ug/kg	SW-846/8240		
Bromoform	ND	10	ug/kg	SW-846/8240		
Bromomethane	ND	10	ug/kg	SW-846/8240		
2-Butanone (MEK)	ND	10	ug/kg	SW-846/8240		
Carbon disulfide	ND	10	ug/kg	SW-846/8240		
Carbon tetrachloride	ND	10	ug/kg	SW-846/8240		
Chlorobenzene	ND	10	ug/kg	SW-846/8240		
Chloroethane	ND	10	ug/kg	SW-846/8240		
Chloroform	ND	10	ug/kg	SW-846/8240		
Chloromethane	ND	10	ug/kg	SW-846/8240		
Dibromochloromethane	ND	10	ug/kg	SW-846/8240		
1,1-Dichloroethane	ND	10	ug/kg	SW-846/8240		
1,2-Dichloroethane	ND	10	ug/kg	SW-846/8240		
1,1-Dichloroethene	ND	10	ug/kg	SW-846/8240		
1,2-Dichloroethene (Total)	ND	10	ug/kg	SW-846/8240		
1,2-Dichloropropane	ND	10	ug/kg	SW-846/8240		
cis-1,3-Dichloropropene	ND	10	ug/kg	SW-846/8240		

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8949

WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SB-21-03-54 (12-14')
DATE SAMPLED.....: 05/18/94
TIME SAMPLED.....: 08:50
WORK DESCRIPTION...: 153503.03

LABORATORY I.D...: 942349-0001
DATE RECEIVED....: 05/23/94
TIME RECEIVED....: 08:00
REMARKS.....: SAMPLED BY: WHITEHEAD/VICKERY

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
trans-1,3-Dichloropropene	ND	10	ug/kg	SW-846/8240		
Ethylbenzene	1530	1000	ug/kg	SW-846/8240		
2-Hexanone	ND	10	ug/kg	SW-846/8240		
Methylene chloride	ND	10	ug/kg	SW-846/8240		
4-Methyl-2-pentanone	ND	10	ug/kg	SW-846/8240		
Styrene	ND	10	ug/kg	SW-846/8240		
1,1,2,2-Tetrachloroethane	ND	10	ug/kg	SW-846/8240		
Tetrachloroethene	ND	10	ug/kg	SW-846/8240		
Toluene	ND	10	ug/kg	SW-846/8240		
1,1,1-Trichloroethane	ND	10	ug/kg	SW-846/8240		
1,1,2-Trichloroethane	ND	10	ug/kg	SW-846/8240		
Trichloroethene	ND	10	ug/kg	SW-846/8240		
Total Xylenes	9630	1000	ug/kg	SW-846/8240		
Vinyl chloride	ND	10	ug/kg	SW-846/8240		

008950

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8950

WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SB-22-02-57 (12-14')
DATE SAMPLED.....: 05/18/94
TIME SAMPLED.....: 09:45
WORK DESCRIPTION...: 153503.03

LABORATORY I.D...: 942349-0002
DATE RECEIVED....: 05/23/94
TIME RECEIVED....: 08:00
REMARKS.....: SAMPLED BY: WHITEHEAD/VICKERY

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECH
Semi-volatile Organic Contaminants		*167		SW-846/8270	06/07/94	DFM
Acenaphthene	ND	1670	ug/kg	SW-846/8270		
Acenaphthylene	ND	1670	ug/kg	SW-846/8270		
Anthracene	ND	1670	ug/kg	SW-846/8270		
Benzo(a)anthracene	ND	1670	ug/kg	SW-846/8270		
Benzo(b)fluoranthene	ND	1670	ug/kg	SW-846/8270		
Benzo(k)fluoranthene	ND	1670	ug/kg	SW-846/8270		
Benzo(ghi)perylene	ND	1670	ug/kg	SW-846/8270		
Benzo(a)pyrene	ND	1670	ug/kg	SW-846/8270		
Bis(2-chloroethoxy)methane	ND	1670	ug/kg	SW-846/8270		
Bis(2-chloroethyl)ether	ND	1670	ug/kg	SW-846/8270		
Bis(2-chloroisopropyl)ether	ND	1670	ug/kg	SW-846/8270		
Bis(2-ethylhexyl) phthalate	ND	1670	ug/kg	SW-846/8270		
4-Bromophenyl phenyl ether	ND	1670	ug/kg	SW-846/8270		
Butyl benzyl phthalate	ND	1670	ug/kg	SW-846/8270		
Carbazole	ND	1670	ug/kg	SW-846/8270		
4-Chloroaniline	ND	1670	ug/kg	SW-846/8270		
4-Chloro-3-methylphenol	ND	1670	ug/kg	SW-846/8270		
2-Chloronaphthalene	ND	1670	ug/kg	SW-846/8270		
2-Chlorophenol	ND	1670	ug/kg	SW-846/8270		
4-Chlorophenyl phenyl ether	ND	1670	ug/kg	SW-846/8270		
Chrysene	ND	1670	ug/kg	SW-846/8270		
2-Methylphenol	ND	1670	ug/kg	SW-846/8270		
4-Methylphenol	ND	1670	ug/kg	SW-846/8270		
Dibenzo(a,h)anthracene	ND	1670	ug/kg	SW-846/8270		
Dibenzofuran	ND	1670	ug/kg	SW-846/8270		
Di-n-butyl phthalate	ND	1670	ug/kg	SW-846/8270		
1,2-Dichlorobenzene	ND	1670	ug/kg	SW-846/8270		
1,3-Dichlorobenzene	ND	1670	ug/kg	SW-846/8270		
1,4-Dichlorobenzene	ND	1670	ug/kg	SW-846/8270		
3,3'-Dichlorobenzidine	ND	1670	ug/kg	SW-846/8270		
2,4-Dichlorophenol	ND	1670	ug/kg	SW-846/8270		
Diethyl phthalate	ND	1670	ug/kg	SW-846/8270		
2,4-Dimethylphenol	ND	1670	ug/kg	SW-846/8270		
Dimethyl phthalate	ND	1670	ug/kg	SW-846/8270		
2,4-Dinitrophenol	ND	4175	ug/kg	SW-846/8270		
2,4-Dinitrotoluene	ND	1670	ug/kg	SW-846/8270		
2,6-Dinitrotoluene	ND	1670	ug/kg	SW-846/8270		
Di-n-octyl phthalate	ND	1670	ug/kg	SW-846/8270		
Fluoranthene	ND	1670	ug/kg	SW-846/8270		
Fluorene	ND	1670	ug/kg	SW-846/8270		
Hexachlorobenzene	ND	1670	ug/kg	SW-846/8270		
Hexachlorobutadiene	ND	1670	ug/kg	SW-846/8270		
Hexachlorocyclopentadiene	ND	1670	ug/kg	SW-846/8270		

008951

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8951

WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SB-22-02-57 (12-14')
DATE SAMPLED.....: 05/18/94
TIME SAMPLED.....: 09:45
WORK DESCRIPTION...: 153503.03

LABORATORY I.D...: 942349-0002
DATE RECEIVED....: 05/23/94
TIME RECEIVED....: 08:00
REMARKS.....: SAMPLED BY: WHITEHEAD/VICKERY

008952

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Hexachloroethane	ND	1670	ug/kg	SW-846/8270		
Indenol(1,2,3-cd)pyrene	ND	1670	ug/kg	SW-846/8270		
Isophorone	ND	1670	ug/kg	SW-846/8270		
2-Methyl-4,6-dinitrophenol	ND	4175	ug/kg	SW-846/8270		
2-Methylnaphthalene	ND	1670	ug/kg	SW-846/8270		
Naphthalene	ND	1670	ug/kg	SW-846/8270		
2-Nitroaniline	ND	4175	ug/kg	SW-846/8270		
3-Nitroaniline	ND	4175	ug/kg	SW-846/8270		
4-Nitroaniline	ND	4175	ug/kg	SW-846/8270		
Nitrobenzene	ND	1670	ug/kg	SW-846/8270		
2-Nitrophenol	ND	1670	ug/kg	SW-846/8270		
4-Nitrophenol	ND	4175	ug/kg	SW-846/8270		
N-Nitrosodiphenylamine	ND	1670	ug/kg	SW-846/8270		
N-Nitrosodi-n-propylamine	ND	1670	ug/kg	SW-846/8270		
Pentachlorophenol	ND	4175	ug/kg	SW-846/8270		
Phenanthrene	ND	1670	ug/kg	SW-846/8270		
Phenol	ND	1670	ug/kg	SW-846/8270		
Pyrene	ND	1670	ug/kg	SW-846/8270		
1,2,4-Trichlorobenzene	ND	1670	ug/kg	SW-846/8270		
2,4,6-Trichlorophenol	ND	1670	ug/kg	SW-846/8270		
2,4,5-Trichlorophenol	ND	4175	ug/kg	SW-846/8270		
Semivolatile Organics Extraction	COMPLETE			SW-846 3550	05/25/94	CMG
Volatile Organic Contaminants		*1		SW-846/8240	06/01/94	MJH
Acetone	1170	10	ug/kg	SW-846/8240		
Benzene	ND	10	ug/kg	SW-846/8240		
Bromodichloromethane	ND	10	ug/kg	SW-846/8240		
Bromoform	ND	10	ug/kg	SW-846/8240		
Bromomethane	ND	10	ug/kg	SW-846/8240		
2-Butanone (MEK)	151	10	ug/kg	SW-846/8240		
Carbon disulfide	192	10	ug/kg	SW-846/8240		
Carbon tetrachloride	ND	10	ug/kg	SW-846/8240		
Chlorobenzene	ND	10	ug/kg	SW-846/8240		
Chloroethane	ND	10	ug/kg	SW-846/8240		
Chloroform	ND	10	ug/kg	SW-846/8240		
Chloromethane	ND	10	ug/kg	SW-846/8240		
Dibromochloromethane	ND	10	ug/kg	SW-846/8240		
1,1-Dichloroethane	ND	10	ug/kg	SW-846/8240		
1,2-Dichloroethane	ND	10	ug/kg	SW-846/8240		
1,1-Dichloroethene	ND	10	ug/kg	SW-846/8240		
1,2-Dichloroethene (Total)	ND	10	ug/kg	SW-846/8240		
1,2-Dichloropropane	ND	10	ug/kg	SW-846/8240		
cis-1,3-Dichloropropene	ND	10	ug/kg	SW-846/8240		

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8952

WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS

07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SB-22-02-57 (12-14')
DATE SAMPLED.....: 05/18/94
TIME SAMPLED.....: 09:45
WORK DESCRIPTION...: 153503.03

LABORATORY I.D....: 942349-0002
DATE RECEIVED....: 05/23/94
TIME RECEIVED....: 08:00
REMARKS.....: SAMPLED BY: WHITEHEAD/VICKERY

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
trans-1,3-Dichloropropene	ND	10	ug/kg	SW-846/8240		
Ethylbenzene	13	10	ug/kg	SW-846/8240		
2-Hexanone	ND	10	ug/kg	SW-846/8240		
Methylene chloride	47	10	ug/kg	SW-846/8240		
4-Methyl-2-pentanone	ND	10	ug/kg	SW-846/8240		
Styrene	ND	10	ug/kg	SW-846/8240		
1,1,2,2-Tetrachloroethane	ND	10	ug/kg	SW-846/8240		
Tetrachloroethene	ND	10	ug/kg	SW-846/8240		
Toluene	12	10	ug/kg	SW-846/8240		
1,1,1-Trichloroethane	ND	10	ug/kg	SW-846/8240		
1,1,2-Trichloroethane	ND	10	ug/kg	SW-846/8240		
Trichloroethene	ND	10	ug/kg	SW-846/8240		
Total Xylenes	92	10	ug/kg	SW-846/8240		
Vinyl chloride	ND	10	ug/kg	SW-846/8240		

008953

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008953

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8953

WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SB-22-03-58 ~~(20-22')~~ (12-14)' per field notes
DATE SAMPLED.....: 05/18/94
TIME SAMPLED.....: 09:50
WORK DESCRIPTION...: 153503.03

LABORATORY I.D...: 942349-0003
DATE RECEIVED....: 05/23/94
TIME RECEIVED....: 08:00
REMARKS.....: SAMPLED BY: WHITEHEAD/VICKERY

008954

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Semi-volatile Organic Contaminants		*33		SW-846/8270	05/31/94	LLB
Acenaphthene	ND	330	ug/kg	SW-846/8270		
Acenaphthylene	ND	330	ug/kg	SW-846/8270		
Anthracene	ND	330	ug/kg	SW-846/8270		
Benzo(a)anthracene	ND	330	ug/kg	SW-846/8270		
Benzo(b)fluoranthene	ND	330	ug/kg	SW-846/8270		
Benzo(k)fluoranthene	ND	330	ug/kg	SW-846/8270		
Benzo(ghi)perylene	ND	330	ug/kg	SW-846/8270		
Benzo(a)pyrene	ND	330	ug/kg	SW-846/8270		
Bis(2-chloroethoxy)methane	ND	330	ug/kg	SW-846/8270		
Bis(2-chloroethyl)ether	ND	330	ug/kg	SW-846/8270		
Bis(2-chloroisopropyl)ether	ND	330	ug/kg	SW-846/8270		
Bis(2-ethylhexyl) phthalate	ND	330	ug/kg	SW-846/8270		
4-Bromophenyl phenyl ether	ND	330	ug/kg	SW-846/8270		
Butyl benzyl phthalate	ND	330	ug/kg	SW-846/8270		
Carbazole	ND	330	ug/kg	SW-846/8270		
4-Chloroaniline	ND	330	ug/kg	SW-846/8270		
4-Chloro-3-methylphenol	ND	330	ug/kg	SW-846/8270		
2-Chloronaphthalene	ND	330	ug/kg	SW-846/8270		
2-Chlorophenol	ND	330	ug/kg	SW-846/8270		
4-Chlorophenyl phenyl ether	ND	330	ug/kg	SW-846/8270		
Chrysene	ND	330	ug/kg	SW-846/8270		
2-Methylphenol	ND	330	ug/kg	SW-846/8270		
4-Methylphenol	ND	330	ug/kg	SW-846/8270		
Dibenzo(a,h)anthracene	ND	330	ug/kg	SW-846/8270		
Dibenzofuran	ND	330	ug/kg	SW-846/8270		
Di-n-butyl phthalate	ND	330	ug/kg	SW-846/8270		
1,2-Dichlorobenzene	ND	330	ug/kg	SW-846/8270		
1,3-Dichlorobenzene	ND	330	ug/kg	SW-846/8270		
1,4-Dichlorobenzene	ND	330	ug/kg	SW-846/8270		
3,3'-Dichlorobenzidine	ND	330	ug/kg	SW-846/8270		
2,4-Dichlorophenol	ND	330	ug/kg	SW-846/8270		
Diethyl phthalate	ND	330	ug/kg	SW-846/8270		
2,4-Dimethylphenol	ND	330	ug/kg	SW-846/8270		
Dimethyl phthalate	ND	330	ug/kg	SW-846/8270		
2,4-Dinitrophenol	ND	825	ug/kg	SW-846/8270		
2,4-Dinitrotoluene	ND	330	ug/kg	SW-846/8270		
2,6-Dinitrotoluene	ND	330	ug/kg	SW-846/8270		
Di-n-octyl phthalate	ND	330	ug/kg	SW-846/8270		
Fluoranthene	ND	330	ug/kg	SW-846/8270		
Fluorene	ND	330	ug/kg	SW-846/8270		
Hexachlorobenzene	ND	330	ug/kg	SW-846/8270		
Hexachlorobutadiene	ND	330	ug/kg	SW-846/8270		
Hexachlorocyclopentadiene	ND	330	ug/kg	SW-846/8270		

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SB-22-03-58 ~~(20-22')~~ → (12-14') Corrected from field notes
DATE SAMPLED.....: 05/18/94
TIME SAMPLED.....: 09:50
WORK DESCRIPTION...: 153503.03

LABORATORY I.D...: 942349-0003
DATE RECEIVED....: 05/23/94
TIME RECEIVED....: 08:00
REMARKS.....: SAMPLED BY: WHITEHEAD/VICKERY

008955

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Hexachloroethane	ND	330	ug/kg	SW-846/8270		
Indenol(1,2,3-cd)pyrene	ND	330	ug/kg	SW-846/8270		
Isophorone	ND	330	ug/kg	SW-846/8270		
2-Methyl-4,6-dinitrophenol	ND	825	ug/kg	SW-846/8270		
2-Methylnaphthalene	692	330	ug/kg	SW-846/8270		
Naphthalene	1860	330	ug/kg	SW-846/8270		
2-Nitroaniline	ND	825	ug/kg	SW-846/8270		
3-Nitroaniline	ND	825	ug/kg	SW-846/8270		
4-Nitroaniline	ND	825	ug/kg	SW-846/8270		
Nitrobenzene	ND	330	ug/kg	SW-846/8270		
2-Nitrophenol	ND	330	ug/kg	SW-846/8270		
4-Nitrophenol	ND	825	ug/kg	SW-846/8270		
N-Nitrosodiphenylamine	ND	330	ug/kg	SW-846/8270		
N-Nitrosodi-n-propylamine	ND	330	ug/kg	SW-846/8270		
Pentachlorophenol	ND	825	ug/kg	SW-846/8270		
Phenanthrene	ND	330	ug/kg	SW-846/8270		
Phenol	ND	330	ug/kg	SW-846/8270		
Pyrene	ND	330	ug/kg	SW-846/8270		
1,2,4-Trichlorobenzene	ND	330	ug/kg	SW-846/8270		
2,4,6-Trichlorophenol	ND	330	ug/kg	SW-846/8270		
2,4,5-Trichlorophenol	ND	825	ug/kg	SW-846/8270		
Semivolatile Organics Extraction	COMPLETE			SW-846 3550	05/25/94	CMG
Volatile Organic Contaminants		*1		SW-846/8240	06/01/94	MJH
Acetone	310	10	ug/kg	SW-846/8240		
Benzene	ND	10	ug/kg	SW-846/8240		
Bromodichloromethane	ND	10	ug/kg	SW-846/8240		
Bromoform	ND	10	ug/kg	SW-846/8240		
Bromomethane	ND	10	ug/kg	SW-846/8240		
2-Butanone (MEK)	83	10	ug/kg	SW-846/8240		
Carbon disulfide	ND	10	ug/kg	SW-846/8240		
Carbon tetrachloride	ND	10	ug/kg	SW-846/8240		
Chlorobenzene	ND	10	ug/kg	SW-846/8240		
Chloroethane	ND	10	ug/kg	SW-846/8240		
Chloroform	ND	10	ug/kg	SW-846/8240		
Chloromethane	ND	10	ug/kg	SW-846/8240		
Dibromochloromethane	ND	10	ug/kg	SW-846/8240		
1,1-Dichloroethane	ND	10	ug/kg	SW-846/8240		
1,2-Dichloroethane	ND	10	ug/kg	SW-846/8240		
1,1-Dichloroethene	ND	10	ug/kg	SW-846/8240		
1,2-Dichloroethene (Total)	ND	10	ug/kg	SW-846/8240		
1,2-Dichloropropane	ND	10	ug/kg	SW-846/8240		
cis-1,3-Dichloropropene	ND	10	ug/kg	SW-846/8240		

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8955

WESTERN ATLAS

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LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SB-22-03-58 (~~20-22'~~) (12-14')
DATE SAMPLED.....: 05/18/94
TIME SAMPLED.....: 09:50
WORK DESCRIPTION...: 153503.03

LABORATORY I.D...: 942349-0003
DATE RECEIVED....: 05/23/94
TIME RECEIVED....: 08:00
REMARKS.....: SAMPLED BY: WHITEHEAD/VICKERY

008956

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
trans-1,3-Dichloropropene	ND	10	ug/kg	SW-846/8240		
Ethylbenzene	ND	10	ug/kg	SW-846/8240		
2-Hexanone	ND	10	ug/kg	SW-846/8240		
Methylene chloride	25	10	ug/kg	SW-846/8240		
4-Methyl-2-pentanone	ND	10	ug/kg	SW-846/8240		
Styrene	ND	10	ug/kg	SW-846/8240		
1,1,2,2-Tetrachloroethane	ND	10	ug/kg	SW-846/8240		
Tetrachloroethene	ND	10	ug/kg	SW-846/8240		
Toluene	ND	10	ug/kg	SW-846/8240		
1,1,1-Trichloroethane	ND	10	ug/kg	SW-846/8240		
1,1,2-Trichloroethane	ND	10	ug/kg	SW-846/8240		
Trichloroethene	ND	10	ug/kg	SW-846/8240		
Total Xylenes	ND	10	ug/kg	SW-846/8240		
Vinyl chloride	ND	10	ug/kg	SW-846/8240		

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WESTERN ATLAS

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LABORATORY TESTS RESULTS

07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-MW-05-65 (MW-05)
DATE SAMPLED.....: 05/19/94
TIME SAMPLED.....: 09:50
WORK DESCRIPTION...: 153503.03

LABORATORY I.D...: 942349-0004
DATE RECEIVED....: 05/23/94
TIME RECEIVED....: 08:00
REMARKS.....: SAMPLED BY: WHITEHEAD/VICKERY

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Semi-volatile Organic Contaminants		*1		SW-846/8270	06/07/94	DFM
Acenaphthene	ND	10	ug/L	SW-846/8270		
Acenaphthylene	ND	10	ug/L	SW-846/8270		
Anthracene	ND	10	ug/L	SW-846/8270		
Benzo(a)anthracene	ND	10	ug/L	SW-846/8270		
Benzo(b)fluoranthene	ND	10	ug/L	SW-846/8270		
Benzo(k)fluoranthene	ND	10	ug/L	SW-846/8270		
Benzo(ghi)perylene	ND	10	ug/L	SW-846/8270		
Benzo(a)pyrene	ND	10	ug/L	SW-846/8270		
Bis(2-chloroethoxy)methane	ND	10	ug/L	SW-846/8270		
Bis(2-chloroethyl)ether	ND	10	ug/L	SW-846/8270		
Bis(2-chloroisopropyl)ether	ND	10	ug/L	SW-846/8270		
Bis(2-ethylhexyl) phthalate	ND	10	ug/L	SW-846/8270		
4-Bromophenyl phenyl ether	ND	10	ug/L	SW-846/8270		
Butyl benzyl phthalate	ND	10	ug/L	SW-846/8270		
Carbazole	ND	10	ug/L	SW-846/8270		
4-Chloroaniline	ND	10	ug/L	SW-846/8270		
4-Chloro-3-methylphenol	ND	10	ug/L	SW-846/8270		
2-Chloronaphthalene	ND	10	ug/L	SW-846/8270		
2-Chlorophenol	ND	10	ug/L	SW-846/8270		
4-Chlorophenyl phenyl ether	ND	10	ug/L	SW-846/8270		
Chrysene	ND	10	ug/L	SW-846/8270		
2-Methylphenol	ND	10	ug/L	SW-846/8270		
4-Methylphenol	ND	10	ug/L	SW-846/8270		
Dibenzo(a,h)anthracene	ND	10	ug/L	SW-846/8270		
Dibenzofuran	ND	10	ug/L	SW-846/8270		
Di-n-butyl phthalate	ND	10	ug/L	SW-846/8270		
1,2-Dichlorobenzene	ND	10	ug/L	SW-846/8270		
1,3-Dichlorobenzene	ND	10	ug/L	SW-846/8270		
1,4-Dichlorobenzene	ND	10	ug/L	SW-846/8270		
3,3'-Dichlorobenzidine	ND	10	ug/L	SW-846/8270		
2,4-Dichlorophenol	ND	10	ug/L	SW-846/8270		
Diethyl phthalate	ND	10	ug/L	SW-846/8270		
2,4-Dimethylphenol	ND	10	ug/L	SW-846/8270		
Dimethyl phthalate	ND	10	ug/L	SW-846/8270		
2,4-Dinitrophenol	ND	25	ug/L	SW-846/8270		
2,4-Dinitrotoluene	ND	10	ug/L	SW-846/8270		
2,6-Dinitrotoluene	ND	10	ug/L	SW-846/8270		
Di-n-octyl phthalate	ND	10	ug/L	SW-846/8270		
Fluoranthene	ND	10	ug/L	SW-846/8270		
Fluorene	ND	10	ug/L	SW-846/8270		
Hexachlorobenzene	ND	10	ug/L	SW-846/8270		
Hexachlorobutadiene	ND	10	ug/L	SW-846/8270		
Hexachlorocyclopentadiene	ND	10	ug/L	SW-846/8270		

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-MW-05-65 (MW-05)
DATE SAMPLED.....: 05/19/94
TIME SAMPLED.....: 09:50
WORK DESCRIPTION...: 153503.03

LABORATORY I.D...: 942349-0004
DATE RECEIVED....: 05/23/94
TIME RECEIVED....: 08:00
REMARKS.....: SAMPLED BY: WHITEHEAD/VICKERY

008958

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Hexachloroethane	ND	10	ug/L	SW-846/8270		
Indenol(1,2,3-cd)pyrene	ND	10	ug/L	SW-846/8270		
Isophorone	ND	10	ug/L	SW-846/8270		
2-Methyl-4,6-dinitrophenol	ND	25	ug/L	SW-846/8270		
2-Methylnaphthalene	ND	10	ug/L	SW-846/8270		
Naphthalene	ND	10	ug/L	SW-846/8270		
2-Nitroaniline	ND	25	ug/L	SW-846/8270		
3-Nitroaniline	ND	25	ug/L	SW-846/8270		
4-Nitroaniline	ND	25	ug/L	SW-846/8270		
Nitrobenzene	ND	10	ug/L	SW-846/8270		
2-Nitrophenol	ND	10	ug/L	SW-846/8270		
4-Nitrophenol	ND	25	ug/L	SW-846/8270		
N-Nitrosodiphenylamine	ND	10	ug/L	SW-846/8270		
N-Nitrosodi-n-propylamine	ND	10	ug/L	SW-846/8270		
Pentachlorophenol	ND	25	ug/L	SW-846/8270		
Phenanthrene	ND	10	ug/L	SW-846/8270		
Phenol	ND	10	ug/L	SW-846/8270		
Pyrene	ND	10	ug/L	SW-846/8270		
1,2,4-Trichlorobenzene	ND	10	ug/L	SW-846/8270		
2,4,6-Trichlorophenol	ND	10	ug/L	SW-846/8270		
2,4,5-Trichlorophenol	ND	25	ug/L	SW-846/8270		
Semivolatile Organics Extraction	COMPLETE			SW-846 3510	05/26/94	CMG
Volatile Organic Contaminants		*1		SW-846/8240	05/25/94	MJH
Acetone	13	10	ug/L	SW-846/8240		
Benzene	ND	10	ug/L	SW-846/8240		
Bromodichloromethane	ND	10	ug/L	SW-846/8240		
Bromoform	ND	10	ug/L	SW-846/8240		
Bromomethane	ND	10	ug/L	SW-846/8240		
2-Butanone (MEK)	ND	10	ug/L	SW-846/8240		
Carbon disulfide	ND	10	ug/L	SW-846/8240		
Carbon tetrachloride	ND	10	ug/L	SW-846/8240		
Chlorobenzene	ND	10	ug/L	SW-846/8240		
Chloroethane	ND	10	ug/L	SW-846/8240		
Chloroform	ND	10	ug/L	SW-846/8240		
Chloromethane	ND	10	ug/L	SW-846/8240		
Dibromochloromethane	ND	10	ug/L	SW-846/8240		
1,1-Dichloroethane	ND	10	ug/L	SW-846/8240		
1,2-Dichloroethane	ND	10	ug/L	SW-846/8240		
1,1-Dichloroethene	ND	10	ug/L	SW-846/8240		
1,2-Dichloroethene (Total)	ND	10	ug/L	SW-846/8240		
1,2-Dichloropropane	ND	10	ug/L	SW-846/8240		
cis-1,3-Dichloropropene	ND	10	ug/L	SW-846/8240		

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-MW-05-65 (MW-05)
DATE SAMPLED.....: 05/19/94
TIME SAMPLED.....: 09:50
WORK DESCRIPTION...: 153503.03

LABORATORY I.D...: 942349-0004
DATE RECEIVED....: 05/23/94
TIME RECEIVED....: 08:00
REMARKS.....: SAMPLED BY: WHITEHEAD/VICKERY

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
trans-1,3-Dichloropropene	ND	10	ug/L	SW-846/8240		
Ethylbenzene	ND	10	ug/L	SW-846/8240		
2-Hexanone	ND	10	ug/L	SW-846/8240		
Methylene chloride	12	10	ug/L	SW-846/8240		
4-Methyl-2-pentanone	ND	10	ug/L	SW-846/8240		
Styrene	ND	10	ug/L	SW-846/8240		
1,1,2,2-Tetrachloroethane	ND	10	ug/L	SW-846/8240		
Tetrachloroethene	ND	10	ug/L	SW-846/8240		
Toluene	ND	10	ug/L	SW-846/8240		
1,1,1-Trichloroethane	ND	10	ug/L	SW-846/8240		
1,1,2-Trichloroethane	ND	10	ug/L	SW-846/8240		
Trichloroethene	ND	10	ug/L	SW-846/8240		
Total Xylenes	ND	10	ug/L	SW-846/8240		
Vinyl chloride	ND	10	ug/L	SW-846/8240		
ılinity, total	1260	1	mg/L CaCO3	EPA 310.1	06/02/94	CEP
Total Dissolved Solids (TDS)	480	10	mg/L	EPA 160.1	05/26/94	CPG

008959

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WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-MW-07-66 (MW-07)
DATE SAMPLED.....: 05/19/94
TIME SAMPLED.....: 10:40
WORK DESCRIPTION...: 153503.03

LABORATORY I.D...: 942349-0005
DATE RECEIVED....: 05/23/94
TIME RECEIVED....: 08:00
REMARKS.....: SAMPLED BY: WHITEHEAD/VICKERY

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Semi-volatile Organic Contaminants		*1		SW-846/8270	06/07/94	DFM
Acenaphthene	ND	10	ug/L	SW-846/8270		
Acenaphthylene	ND	10	ug/L	SW-846/8270		
Anthracene	ND	10	ug/L	SW-846/8270		
Benzo(a)anthracene	ND	10	ug/L	SW-846/8270		
Benzo(b)fluoranthene	ND	10	ug/L	SW-846/8270		
Benzo(k)fluoranthene	ND	10	ug/L	SW-846/8270		
Benzo(ghi)perylene	ND	10	ug/L	SW-846/8270		
Benzo(a)pyrene	ND	10	ug/L	SW-846/8270		
Bis(2-chloroethoxy)methane	ND	10	ug/L	SW-846/8270		
Bis(2-chloroethyl)ether	ND	10	ug/L	SW-846/8270		
Bis(2-chloroisopropyl)ether	ND	10	ug/L	SW-846/8270		
Bis(2-ethylhexyl) phthalate	ND	10	ug/L	SW-846/8270		
4-Bromophenyl phenyl ether	ND	10	ug/L	SW-846/8270		
Butyl benzyl phthalate	ND	10	ug/L	SW-846/8270		
Carbazole	ND	10	ug/L	SW-846/8270		
4-Chloroaniline	ND	10	ug/L	SW-846/8270		
4-Chloro-3-methylphenol	ND	10	ug/L	SW-846/8270		
2-Chloronaphthalene	ND	10	ug/L	SW-846/8270		
2-Chlorophenol	ND	10	ug/L	SW-846/8270		
4-Chlorophenyl phenyl ether	ND	10	ug/L	SW-846/8270		
Chrysene	ND	10	ug/L	SW-846/8270		
2-Methylphenol	ND	10	ug/L	SW-846/8270		
4-Methylphenol	ND	10	ug/L	SW-846/8270		
Dibenzo(a,h)anthracene	ND	10	ug/L	SW-846/8270		
Dibenzofuran	ND	10	ug/L	SW-846/8270		
Di-n-butyl phthalate	ND	10	ug/L	SW-846/8270		
1,2-Dichlorobenzene	ND	10	ug/L	SW-846/8270		
1,3-Dichlorobenzene	ND	10	ug/L	SW-846/8270		
1,4-Dichlorobenzene	ND	10	ug/L	SW-846/8270		
3,3'-Dichlorobenzidine	ND	10	ug/L	SW-846/8270		
2,4-Dichlorophenol	ND	10	ug/L	SW-846/8270		
Diethyl phthalate	ND	10	ug/L	SW-846/8270		
2,4-Dimethylphenol	ND	10	ug/L	SW-846/8270		
Dimethyl phthalate	ND	10	ug/L	SW-846/8270		
2,4-Dinitrophenol	ND	25	ug/L	SW-846/8270		
2,4-Dinitrotoluene	ND	10	ug/L	SW-846/8270		
2,6-Dinitrotoluene	ND	10	ug/L	SW-846/8270		
Di-n-octyl phthalate	ND	10	ug/L	SW-846/8270		
Fluoranthene	ND	10	ug/L	SW-846/8270		
Fluorene	ND	10	ug/L	SW-846/8270		
Hexachlorobenzene	ND	10	ug/L	SW-846/8270		
Hexachlorobutadiene	ND	10	ug/L	SW-846/8270		
Hexachlorocyclopentadiene	ND	10	ug/L	SW-846/8270		

008960

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8960

WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-MW-07-66 (MW-07)
DATE SAMPLED.....: 05/19/94
TIME SAMPLED.....: 10:40
WORK DESCRIPTION...: 153503.03

LABORATORY I.D...: 942349-0005
DATE RECEIVED....: 05/23/94
TIME RECEIVED....: 08:00
REMARKS.....: SAMPLED BY: WHITEHEAD/VICKERY

008961

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Hexachloroethane	ND	10	ug/L	SW-846/8270		
Indenol(1,2,3-cd)pyrene	ND	10	ug/L	SW-846/8270		
Isophorone	ND	10	ug/L	SW-846/8270		
2-Methyl-4,6-dinitrophenol	ND	25	ug/L	SW-846/8270		
2-Methylnaphthalene	ND	10	ug/L	SW-846/8270		
Naphthalene	ND	10	ug/L	SW-846/8270		
2-Nitroaniline	ND	25	ug/L	SW-846/8270		
3-Nitroaniline	ND	25	ug/L	SW-846/8270		
4-Nitroaniline	ND	25	ug/L	SW-846/8270		
Nitrobenzene	ND	10	ug/L	SW-846/8270		
2-Nitrophenol	ND	10	ug/L	SW-846/8270		
4-Nitrophenol	ND	25	ug/L	SW-846/8270		
N-Nitrosodiphenylamine	ND	10	ug/L	SW-846/8270		
N-Nitrosodi-n-propylamine	ND	10	ug/L	SW-846/8270		
Pentachlorophenol	ND	25	ug/L	SW-846/8270		
Phenanthrene	ND	10	ug/L	SW-846/8270		
Phenol	ND	10	ug/L	SW-846/8270		
Pyrene	ND	10	ug/L	SW-846/8270		
1,2,4-Trichlorobenzene	ND	10	ug/L	SW-846/8270		
2,4,6-Trichlorophenol	ND	10	ug/L	SW-846/8270		
2,4,5-Trichlorophenol	ND	25	ug/L	SW-846/8270		
Semivolatile Organics Extraction	COMPLETE			SW-846 3510	05/26/94	CMG
Volatile Organic Contaminants		*1		SW-846/8240	05/25/94	MJH
Acetone	27	10	ug/L	SW-846/8240		
Benzene	ND	10	ug/L	SW-846/8240		
Bromodichloromethane	ND	10	ug/L	SW-846/8240		
Bromoform	ND	10	ug/L	SW-846/8240		
Bromomethane	ND	10	ug/L	SW-846/8240		
2-Butanone (MEK)	ND	10	ug/L	SW-846/8240		
Carbon disulfide	ND	10	ug/L	SW-846/8240		
Carbon tetrachloride	ND	10	ug/L	SW-846/8240		
Chlorobenzene	ND	10	ug/L	SW-846/8240		
Chloroethane	ND	10	ug/L	SW-846/8240		
Chloroform	ND	10	ug/L	SW-846/8240		
Chloromethane	ND	10	ug/L	SW-846/8240		
Dibromochloromethane	ND	10	ug/L	SW-846/8240		
1,1-Dichloroethane	ND	10	ug/L	SW-846/8240		
1,2-Dichloroethane	ND	10	ug/L	SW-846/8240		
1,1-Dichloroethene	ND	10	ug/L	SW-846/8240		
1,2-Dichloroethene (Total)	ND	10	ug/L	SW-846/8240		
1,2-Dichloropropane	ND	10	ug/L	SW-846/8240		
cis-1,3-Dichloropropene	ND	10	ug/L	SW-846/8240		

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8961

WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-MW-07-66 (MW-07)
DATE SAMPLED.....: 05/19/94
TIME SAMPLED.....: 10:40
WORK DESCRIPTION...: 153503.03

LABORATORY I.D...: 942349-0005
DATE RECEIVED....: 05/23/94
TIME RECEIVED....: 08:00
REMARKS.....: SAMPLED BY: WHITEHEAD/VICKERY

008962

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
trans-1,3-Dichloropropene	ND	10	ug/L	SW-846/8240		
Ethylbenzene	ND	10	ug/L	SW-846/8240		
2-Hexanone	ND	10	ug/L	SW-846/8240		
Methylene chloride	ND	10	ug/L	SW-846/8240		
4-Methyl-2-pentanone	ND	10	ug/L	SW-846/8240		
Styrene	ND	10	ug/L	SW-846/8240		
1,1,2,2-Tetrachloroethane	ND	10	ug/L	SW-846/8240		
Tetrachloroethene	ND	10	ug/L	SW-846/8240		
Toluene	ND	10	ug/L	SW-846/8240		
1,1,1-Trichloroethane	ND	10	ug/L	SW-846/8240		
1,1,2-Trichloroethane	ND	10	ug/L	SW-846/8240		
Trichloroethene	ND	10	ug/L	SW-846/8240		
Total Xylenes	ND	10	ug/L	SW-846/8240		
Vinyl chloride	ND	10	ug/L	SW-846/8240		
alinity, total	920	1	mg/L CaCO3	EPA 310.1	06/02/94	CEP
Total Dissolved Solids (TDS)	472	10	mg/L	EPA 160.1	05/26/94	CPG

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WESTERN ATLAS

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LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-MW-08-67 (MW-08)
DATE SAMPLED.....: 05/19/94
TIME SAMPLED.....: 11:50
WORK DESCRIPTION...: 153503.03

LABORATORY I.D...: 942349-0006
DATE RECEIVED....: 05/23/94
TIME RECEIVED....: 08:00
REMARKS.....: SAMPLED BY: WHITEHEAD/VICKERY

008963

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Semi-volatile Organic Contaminants		*1		SW-846/8270	06/07/94	DFM
Acenaphthene	ND	10	ug/L	SW-846/8270		
Acenaphthylene	ND	10	ug/L	SW-846/8270		
Anthracene	ND	10	ug/L	SW-846/8270		
Benzo(a)anthracene	ND	10	ug/L	SW-846/8270		
Benzo(b)fluoranthene	ND	10	ug/L	SW-846/8270		
Benzo(k)fluoranthene	ND	10	ug/L	SW-846/8270		
Benzo(ghi)perylene	ND	10	ug/L	SW-846/8270		
Benzo(a)pyrene	ND	10	ug/L	SW-846/8270		
Bis(2-chloroethoxy)methane	ND	10	ug/L	SW-846/8270		
Bis(2-chloroethyl)ether	ND	10	ug/L	SW-846/8270		
Bis(2-chloroisopropyl)ether	ND	10	ug/L	SW-846/8270		
Bis(2-ethylhexyl) phthalate	ND	10	ug/L	SW-846/8270		
4-Bromophenyl phenyl ether	ND	10	ug/L	SW-846/8270		
Butyl benzyl phthalate	ND	10	ug/L	SW-846/8270		
Carbazole	ND	10	ug/L	SW-846/8270		
4-Chloroaniline	ND	10	ug/L	SW-846/8270		
4-Chloro-3-methylphenol	ND	10	ug/L	SW-846/8270		
2-Chloronaphthalene	ND	10	ug/L	SW-846/8270		
2-Chlorophenol	ND	10	ug/L	SW-846/8270		
4-Chlorophenyl phenyl ether	ND	10	ug/L	SW-846/8270		
Chrysene	ND	10	ug/L	SW-846/8270		
2-Methylphenol	ND	10	ug/L	SW-846/8270		
4-Methylphenol	ND	10	ug/L	SW-846/8270		
Dibenzo(a,h)anthracene	ND	10	ug/L	SW-846/8270		
Dibenzofuran	ND	10	ug/L	SW-846/8270		
Di-n-butyl phthalate	ND	10	ug/L	SW-846/8270		
1,2-Dichlorobenzene	ND	10	ug/L	SW-846/8270		
1,3-Dichlorobenzene	ND	10	ug/L	SW-846/8270		
1,4-Dichlorobenzene	ND	10	ug/L	SW-846/8270		
3,3'-Dichlorobenzidine	ND	10	ug/L	SW-846/8270		
2,4-Dichlorophenol	ND	10	ug/L	SW-846/8270		
Diethyl phthalate	ND	10	ug/L	SW-846/8270		
2,4-Dimethylphenol	ND	10	ug/L	SW-846/8270		
Dimethyl phthalate	ND	10	ug/L	SW-846/8270		
2,4-Dinitrophenol	ND	25	ug/L	SW-846/8270		
2,4-Dinitrotoluene	ND	10	ug/L	SW-846/8270		
2,6-Dinitrotoluene	ND	10	ug/L	SW-846/8270		
Di-n-octyl phthalate	ND	10	ug/L	SW-846/8270		
Fluoranthene	ND	10	ug/L	SW-846/8270		
Fluorene	ND	10	ug/L	SW-846/8270		
Hexachlorobenzene	ND	10	ug/L	SW-846/8270		
Hexachlorobutadiene	ND	10	ug/L	SW-846/8270		
Hexachlorocyclopentadiene	ND	10	ug/L	SW-846/8270		

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8963

WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-MW-08-67 (MW-08)
DATE SAMPLED.....: 05/19/94
TIME SAMPLED.....: 11:50
WORK DESCRIPTION...: 153503.03

LABORATORY I.D...: 942349-0006
DATE RECEIVED....: 05/23/94
TIME RECEIVED....: 08:00
REMARKS.....: SAMPLED BY: WHITEHEAD/VICKERY

008964

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Hexachloroethane	ND	10	ug/L	SW-846/8270		
Indenol(1,2,3-cd)pyrene	ND	10	ug/L	SW-846/8270		
Isophorone	ND	10	ug/L	SW-846/8270		
2-Methyl-4,6-dinitrophenol	ND	25	ug/L	SW-846/8270		
2-Methylnaphthalene	ND	10	ug/L	SW-846/8270		
Naphthalene	ND	10	ug/L	SW-846/8270		
2-Nitroaniline	ND	25	ug/L	SW-846/8270		
3-Nitroaniline	ND	25	ug/L	SW-846/8270		
4-Nitroaniline	ND	25	ug/L	SW-846/8270		
Nitrobenzene	ND	10	ug/L	SW-846/8270		
2-Nitrophenol	ND	10	ug/L	SW-846/8270		
4-Nitrophenol	ND	25	ug/L	SW-846/8270		
N-Nitrosodiphenylamine	ND	10	ug/L	SW-846/8270		
N-Nitrosodi-n-propylamine	ND	10	ug/L	SW-846/8270		
Pentachlorophenol	ND	25	ug/L	SW-846/8270		
Phenanthrene	ND	10	ug/L	SW-846/8270		
Phenol	ND	10	ug/L	SW-846/8270		
Pyrene	ND	10	ug/L	SW-846/8270		
1,2,4-Trichlorobenzene	ND	10	ug/L	SW-846/8270		
2,4,6-Trichlorophenol	ND	10	ug/L	SW-846/8270		
2,4,5-Trichlorophenol	ND	25	ug/L	SW-846/8270		
Semivolatile Organics Extraction	COMPLETE			SW-846 3510	05/26/94	CMG
Volatile Organic Contaminants		*1		SW-846/8240	05/25/94	MJH
Acetone	ND	10	ug/L	SW-846/8240		
Benzene	ND	10	ug/L	SW-846/8240		
Bromodichloromethane	ND	10	ug/L	SW-846/8240		
Bromoform	ND	10	ug/L	SW-846/8240		
Bromomethane	ND	10	ug/L	SW-846/8240		
2-Butanone (MEK)	ND	10	ug/L	SW-846/8240		
Carbon disulfide	ND	10	ug/L	SW-846/8240		
Carbon tetrachloride	ND	10	ug/L	SW-846/8240		
Chlorobenzene	ND	10	ug/L	SW-846/8240		
Chloroethane	ND	10	ug/L	SW-846/8240		
Chloroform	ND	10	ug/L	SW-846/8240		
Chloromethane	ND	10	ug/L	SW-846/8240		
Dibromochloromethane	ND	10	ug/L	SW-846/8240		
1,1-Dichloroethane	ND	10	ug/L	SW-846/8240		
1,2-Dichloroethane	ND	10	ug/L	SW-846/8240		
1,1-Dichloroethene	ND	10	ug/L	SW-846/8240		
1,2-Dichloroethene (Total)	ND	10	ug/L	SW-846/8240		
1,2-Dichloropropane	ND	10	ug/L	SW-846/8240		
cis-1,3-Dichloropropene	ND	10	ug/L	SW-846/8240		

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8964

WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-MW-08-67 (MW-08)
DATE SAMPLED.....: 05/19/94
TIME SAMPLED.....: 11:50
WORK DESCRIPTION...: 153503.03

LABORATORY I.D...: 942349-0006
DATE RECEIVED....: 05/23/94
TIME RECEIVED....: 08:00
REMARKS.....: SAMPLED BY: WHITEHEAD/VICKERY

008965

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
trans-1,3-Dichloropropene	ND	10	ug/L	SW-846/8240		
Ethylbenzene	ND	10	ug/L	SW-846/8240		
2-Hexanone	ND	10	ug/L	SW-846/8240		
Methylene chloride	ND	10	ug/L	SW-846/8240		
4-Methyl-2-pentanone	ND	10	ug/L	SW-846/8240		
Styrene	ND	10	ug/L	SW-846/8240		
1,1,2,2-Tetrachloroethane	ND	10	ug/L	SW-846/8240		
Tetrachloroethene	ND	10	ug/L	SW-846/8240		
Toluene	ND	10	ug/L	SW-846/8240		
1,1,1-Trichloroethane	ND	10	ug/L	SW-846/8240		
1,1,2-Trichloroethane	ND	10	ug/L	SW-846/8240		
Trichloroethene	ND	10	ug/L	SW-846/8240		
Total Xylenes	ND	10	ug/L	SW-846/8240		
Vinyl chloride	ND	10	ug/L	SW-846/8240		
alinity, total	500	1	mg/L CaCO3	EPA 310.1	06/02/94	CEP
Total Dissolved Solids (TDS)	932	10	mg/L	EPA 160.1	05/26/94	CPG

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WESTERN ATLAS

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LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-MW-06-68 (MW-06)
DATE SAMPLED.....: 05/19/94
TIME SAMPLED.....: 14:15
WORK DESCRIPTION...: 153503.03

LABORATORY I.D...: 942349-0007
DATE RECEIVED....: 05/23/94
TIME RECEIVED....: 08:00
REMARKS.....: SAMPLED BY: WHITEHEAD/VICKERY

008966

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Semi-volatile Organic Contaminants		*1		SW-846/8270	06/07/94	DFM
Acenaphthene	ND	10	ug/L	SW-846/8270		
Acenaphthylene	ND	10	ug/L	SW-846/8270		
Anthracene	ND	10	ug/L	SW-846/8270		
Benzo(a)anthracene	ND	10	ug/L	SW-846/8270		
Benzo(b)fluoranthene	ND	10	ug/L	SW-846/8270		
Benzo(k)fluoranthene	ND	10	ug/L	SW-846/8270		
Benzo(ghi)perylene	ND	10	ug/L	SW-846/8270		
Benzo(a)pyrene	ND	10	ug/L	SW-846/8270		
Bis(2-chloroethoxy)methane	ND	10	ug/L	SW-846/8270		
Bis(2-chloroethyl)ether	ND	10	ug/L	SW-846/8270		
Bis(2-chloroisopropyl)ether	ND	10	ug/L	SW-846/8270		
Bis(2-ethylhexyl) phthalate	ND	10	ug/L	SW-846/8270		
4-Bromophenyl phenyl ether	ND	10	ug/L	SW-846/8270		
Butyl benzyl phthalate	ND	10	ug/L	SW-846/8270		
Carbazole	ND	10	ug/L	SW-846/8270		
4-Chloroaniline	ND	10	ug/L	SW-846/8270		
4-Chloro-3-methylphenol	ND	10	ug/L	SW-846/8270		
2-Chloronaphthalene	ND	10	ug/L	SW-846/8270		
2-Chlorophenol	ND	10	ug/L	SW-846/8270		
4-Chlorophenyl phenyl ether	ND	10	ug/L	SW-846/8270		
Chrysene	ND	10	ug/L	SW-846/8270		
2-Methylphenol	ND	10	ug/L	SW-846/8270		
4-Methylphenol	ND	10	ug/L	SW-846/8270		
Dibenzo(a,h)anthracene	ND	10	ug/L	SW-846/8270		
Dibenzofuran	ND	10	ug/L	SW-846/8270		
Di-n-butyl phthalate	ND	10	ug/L	SW-846/8270		
1,2-Dichlorobenzene	ND	10	ug/L	SW-846/8270		
1,3-Dichlorobenzene	ND	10	ug/L	SW-846/8270		
1,4-Dichlorobenzene	ND	10	ug/L	SW-846/8270		
3,3'-Dichlorobenzidine	ND	10	ug/L	SW-846/8270		
2,4-Dichlorophenol	ND	10	ug/L	SW-846/8270		
Diethyl phthalate	ND	10	ug/L	SW-846/8270		
2,4-Dimethylphenol	ND	10	ug/L	SW-846/8270		
Dimethyl phthalate	ND	10	ug/L	SW-846/8270		
2,4-Dinitrophenol	ND	25	ug/L	SW-846/8270		
2,4-Dinitrotoluene	ND	10	ug/L	SW-846/8270		
2,6-Dinitrotoluene	ND	10	ug/L	SW-846/8270		
Di-n-octyl phthalate	ND	10	ug/L	SW-846/8270		
Fluoranthene	ND	10	ug/L	SW-846/8270		
Fluorene	ND	10	ug/L	SW-846/8270		
Hexachlorobenzene	ND	10	ug/L	SW-846/8270		
Hexachlorobutadiene	ND	10	ug/L	SW-846/8270		
Hexachlorocyclopentadiene	ND	10	ug/L	SW-846/8270		

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008966

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8966

WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-MW-06-68 (MW-06)
DATE SAMPLED.....: 05/19/94
TIME SAMPLED.....: 14:15
WORK DESCRIPTION...: 153503.03

LABORATORY I.D...: 942349-0007
DATE RECEIVED....: 05/23/94
TIME RECEIVED....: 08:00
REMARKS.....: SAMPLED BY: WHITEHEAD/VICKERY

008967

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Hexachloroethane	ND	10	ug/L	SW-846/8270		
Indenol(1,2,3-cd)pyrene	ND	10	ug/L	SW-846/8270		
Isophorone	ND	10	ug/L	SW-846/8270		
2-Methyl-4,6-dinitrophenol	ND	25	ug/L	SW-846/8270		
2-Methylnaphthalene	ND	10	ug/L	SW-846/8270		
Naphthalene	ND	10	ug/L	SW-846/8270		
2-Nitroaniline	ND	25	ug/L	SW-846/8270		
3-Nitroaniline	ND	25	ug/L	SW-846/8270		
4-Nitroaniline	ND	25	ug/L	SW-846/8270		
Nitrobenzene	ND	10	ug/L	SW-846/8270		
2-Nitrophenol	ND	10	ug/L	SW-846/8270		
4-Nitrophenol	ND	25	ug/L	SW-846/8270		
N-Nitrosodiphenylamine	ND	10	ug/L	SW-846/8270		
N-Nitrosodi-n-propylamine	ND	10	ug/L	SW-846/8270		
Pentachlorophenol	ND	25	ug/L	SW-846/8270		
Phenanthrene	ND	10	ug/L	SW-846/8270		
Phenol	ND	10	ug/L	SW-846/8270		
Pyrene	ND	10	ug/L	SW-846/8270		
1,2,4-Trichlorobenzene	ND	10	ug/L	SW-846/8270		
2,4,6-Trichlorophenol	ND	10	ug/L	SW-846/8270		
2,4,5-Trichlorophenol	ND	25	ug/L	SW-846/8270		
Semivolatile Organics Extraction	COMPLETE			SW-846 3510	05/26/94	CMG
Volatile Organic Contaminants		*1		SW-846/8240	05/25/94	MJH
Acetone	ND	10	ug/L	SW-846/8240		
Benzene	ND	10	ug/L	SW-846/8240		
Bromodichloromethane	ND	10	ug/L	SW-846/8240		
Bromoform	ND	10	ug/L	SW-846/8240		
Bromomethane	ND	10	ug/L	SW-846/8240		
2-Butanone (MEK)	ND	10	ug/L	SW-846/8240		
Carbon disulfide	ND	10	ug/L	SW-846/8240		
Carbon tetrachloride	ND	10	ug/L	SW-846/8240		
Chlorobenzene	ND	10	ug/L	SW-846/8240		
Chloroethane	ND	10	ug/L	SW-846/8240		
Chloroform	ND	10	ug/L	SW-846/8240		
Chloromethane	ND	10	ug/L	SW-846/8240		
Dibromochloromethane	ND	10	ug/L	SW-846/8240		
1,1-Dichloroethane	ND	10	ug/L	SW-846/8240		
1,2-Dichloroethane	ND	10	ug/L	SW-846/8240		
1,1-Dichloroethene	ND	10	ug/L	SW-846/8240		
1,2-Dichloroethene (Total)	ND	10	ug/L	SW-846/8240		
1,2-Dichloropropane	ND	10	ug/L	SW-846/8240		
cis-1,3-Dichloropropene	ND	10	ug/L	SW-846/8240		

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8967

WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS

07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-MW-06-68 (MW-06)
DATE SAMPLED.....: 05/19/94
TIME SAMPLED.....: 14:15
WORK DESCRIPTION...: 153503.03

LABORATORY I.D...: 942349-0007
DATE RECEIVED....: 05/23/94
TIME RECEIVED....: 08:00
REMARKS.....: SAMPLED BY: WHITEHEAD/VICKERY

008968

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
trans-1,3-Dichloropropene	ND	10	ug/L	SW-846/8240		
Ethylbenzene	ND	10	ug/L	SW-846/8240		
2-Hexanone	ND	10	ug/L	SW-846/8240		
Methylene chloride	ND	10	ug/L	SW-846/8240		
4-Methyl-2-pentanone	ND	10	ug/L	SW-846/8240		
Styrene	ND	10	ug/L	SW-846/8240		
1,1,2,2-Tetrachloroethane	ND	10	ug/L	SW-846/8240		
Tetrachloroethene	ND	10	ug/L	SW-846/8240		
Toluene	ND	10	ug/L	SW-846/8240		
1,1,1-Trichloroethane	ND	10	ug/L	SW-846/8240		
1,1,2-Trichloroethane	ND	10	ug/L	SW-846/8240		
Trichloroethene	ND	10	ug/L	SW-846/8240		
Total Xylenes	ND	10	ug/L	SW-846/8240		
Vinyl chloride	ND	10	ug/L	SW-846/8240		

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8968

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LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-MW-11-69 (MW-11)
DATE SAMPLED.....: 05/19/94
TIME SAMPLED.....: 15:00
WORK DESCRIPTION...: 153503.03

LABORATORY I.D...: 942349-0008
DATE RECEIVED....: 05/23/94
TIME RECEIVED....: 08:00
REMARKS.....: SAMPLED BY: WHITEHEAD/VICKERY

008969

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Volatile Organic Contaminants		*1		SW-846/8240	05/25/94	MJH
Acetone	ND	10	ug/L	SW-846/8240		
Benzene	ND	10	ug/L	SW-846/8240		
Bromodichloromethane	ND	10	ug/L	SW-846/8240		
Bromoform	ND	10	ug/L	SW-846/8240		
Bromomethane	ND	10	ug/L	SW-846/8240		
2-Butanone (MEK)	ND	10	ug/L	SW-846/8240		
Carbon disulfide	ND	10	ug/L	SW-846/8240		
Carbon tetrachloride	ND	10	ug/L	SW-846/8240		
Chlorobenzene	ND	10	ug/L	SW-846/8240		
Chloroethane	ND	10	ug/L	SW-846/8240		
Chloroform	ND	10	ug/L	SW-846/8240		
Chloromethane	ND	10	ug/L	SW-846/8240		
Dibromochloromethane	ND	10	ug/L	SW-846/8240		
1,1-Dichloroethane	ND	10	ug/L	SW-846/8240		
1,2-Dichloroethane	ND	10	ug/L	SW-846/8240		
1,1-Dichloroethene	ND	10	ug/L	SW-846/8240		
1,2-Dichloroethene (Total)	ND	10	ug/L	SW-846/8240		
1,2-Dichloropropane	ND	10	ug/L	SW-846/8240		
cis-1,3-Dichloropropene	ND	10	ug/L	SW-846/8240		
trans-1,3-Dichloropropene	ND	10	ug/L	SW-846/8240		
Ethylbenzene	ND	10	ug/L	SW-846/8240		
2-Hexanone	ND	10	ug/L	SW-846/8240		
Methylene chloride	ND	10	ug/L	SW-846/8240		
4-Methyl-2-pentanone	ND	10	ug/L	SW-846/8240		
Styrene	ND	10	ug/L	SW-846/8240		
1,1,2,2-Tetrachloroethane	ND	10	ug/L	SW-846/8240		
Tetrachloroethene	ND	10	ug/L	SW-846/8240		
Toluene	ND	10	ug/L	SW-846/8240		
1,1,1-Trichloroethane	ND	10	ug/L	SW-846/8240		
1,1,2-Trichloroethane	ND	10	ug/L	SW-846/8240		
Trichloroethene	ND	10	ug/L	SW-846/8240		
Total Xylenes	ND	10	ug/L	SW-846/8240		
Vinyl chloride	ND	10	ug/L	SW-846/8240		

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8969

WESTERN ATLAS

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LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-MW-09-70 (MW-09)
DATE SAMPLED.....: 05/19/94
TIME SAMPLED.....: 15:20
WORK DESCRIPTION...: 153503.03

LABORATORY I.D...: 942349-0009
DATE RECEIVED....: 05/23/94
TIME RECEIVED....: 08:00
REMARKS.....: SAMPLED BY: WHITEHEAD/VICKERY

008970

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Semi-volatile Organic Contaminants		*1		SW-846/8270	06/07/94	DFM
Acenaphthene	ND	10	ug/L	SW-846/8270		
Acenaphthylene	ND	10	ug/L	SW-846/8270		
Anthracene	ND	10	ug/L	SW-846/8270		
Benzo(a)anthracene	ND	10	ug/L	SW-846/8270		
Benzo(b)fluoranthene	ND	10	ug/L	SW-846/8270		
Benzo(k)fluoranthene	ND	10	ug/L	SW-846/8270		
Benzo(ghi)perylene	ND	10	ug/L	SW-846/8270		
Benzo(a)pyrene	ND	10	ug/L	SW-846/8270		
Bis(2-chloroethoxy)methane	ND	10	ug/L	SW-846/8270		
Bis(2-chloroethyl)ether	ND	10	ug/L	SW-846/8270		
Bis(2-chloroisopropyl)ether	ND	10	ug/L	SW-846/8270		
Bis(2-ethylhexyl) phthalate	ND	10	ug/L	SW-846/8270		
4-Bromophenyl phenyl ether	ND	10	ug/L	SW-846/8270		
Butyl benzyl phthalate	ND	10	ug/L	SW-846/8270		
Carbazole	ND	10	ug/L	SW-846/8270		
4-Chloroaniline	ND	10	ug/L	SW-846/8270		
4-Chloro-3-methylphenol	ND	10	ug/L	SW-846/8270		
2-Chloronaphthalene	ND	10	ug/L	SW-846/8270		
2-Chlorophenol	ND	10	ug/L	SW-846/8270		
4-Chlorophenyl phenyl ether	ND	10	ug/L	SW-846/8270		
Chrysene	ND	10	ug/L	SW-846/8270		
2-Methylphenol	ND	10	ug/L	SW-846/8270		
4-Methylphenol	ND	10	ug/L	SW-846/8270		
Dibenzo(a,h)anthracene	ND	10	ug/L	SW-846/8270		
Dibenzofuran	ND	10	ug/L	SW-846/8270		
Di-n-butyl phthalate	ND	10	ug/L	SW-846/8270		
1,2-Dichlorobenzene	ND	10	ug/L	SW-846/8270		
1,3-Dichlorobenzene	ND	10	ug/L	SW-846/8270		
1,4-Dichlorobenzene	ND	10	ug/L	SW-846/8270		
3,3'-Dichlorobenzidine	ND	10	ug/L	SW-846/8270		
2,4-Dichlorophenol	ND	10	ug/L	SW-846/8270		
Diethyl phthalate	ND	10	ug/L	SW-846/8270		
2,4-Dimethylphenol	ND	10	ug/L	SW-846/8270		
Dimethyl phthalate	ND	10	ug/L	SW-846/8270		
2,4-Dinitrophenol	ND	25	ug/L	SW-846/8270		
2,4-Dinitrotoluene	ND	10	ug/L	SW-846/8270		
2,6-Dinitrotoluene	ND	10	ug/L	SW-846/8270		
Di-n-octyl phthalate	ND	10	ug/L	SW-846/8270		
Fluoranthene	ND	10	ug/L	SW-846/8270		
Fluorene	ND	10	ug/L	SW-846/8270		
Hexachlorobenzene	ND	10	ug/L	SW-846/8270		
Hexachlorobutadiene	ND	10	ug/L	SW-846/8270		
Hexachlorocyclopentadiene	ND	10	ug/L	SW-846/8270		

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8970

WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-MW-09-70 (MW-09)
DATE SAMPLED.....: 05/19/94
TIME SAMPLED.....: 15:20
WORK DESCRIPTION...: 153503.03

LABORATORY I.D...: 942349-0009
DATE RECEIVED....: 05/23/94
TIME RECEIVED....: 08:00
REMARKS.....: SAMPLED BY: WHITEHEAD/VICKERY

008971

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Hexachloroethane	ND	10	ug/L	SW-846/8270		
Indenol(1,2,3-cd)pyrene	ND	10	ug/L	SW-846/8270		
Isophorone	ND	10	ug/L	SW-846/8270		
2-Methyl-4,6-dinitrophenol	ND	25	ug/L	SW-846/8270		
2-Methylnaphthalene	ND	10	ug/L	SW-846/8270		
Naphthalene	ND	10	ug/L	SW-846/8270		
2-Nitroaniline	ND	25	ug/L	SW-846/8270		
3-Nitroaniline	ND	25	ug/L	SW-846/8270		
4-Nitroaniline	ND	25	ug/L	SW-846/8270		
Nitrobenzene	ND	10	ug/L	SW-846/8270		
2-Nitrophenol	ND	10	ug/L	SW-846/8270		
4-Nitrophenol	ND	25	ug/L	SW-846/8270		
N-Nitrosodiphenylamine	ND	10	ug/L	SW-846/8270		
N-Nitrosodi-n-propylamine	ND	10	ug/L	SW-846/8270		
Pentachlorophenol	ND	25	ug/L	SW-846/8270		
Phenanthrene	ND	10	ug/L	SW-846/8270		
Phenol	ND	10	ug/L	SW-846/8270		
Pyrene	ND	10	ug/L	SW-846/8270		
1,2,4-Trichlorobenzene	ND	10	ug/L	SW-846/8270		
2,4,6-Trichlorophenol	ND	10	ug/L	SW-846/8270		
2,4,5-Trichlorophenol	ND	25	ug/L	SW-846/8270		
Semivolatile Organics Extraction	COMPLETE			SW-846 3510	05/26/94	CMG
Volatile Organic Contaminants		*1		SW-846/8240	05/25/94	MJH
Acetone	ND	10	ug/L	SW-846/8240		
Benzene	ND	10	ug/L	SW-846/8240		
Bromodichloromethane	ND	10	ug/L	SW-846/8240		
Bromoform	ND	10	ug/L	SW-846/8240		
Bromomethane	ND	10	ug/L	SW-846/8240		
2-Butanone (MEK)	ND	10	ug/L	SW-846/8240		
Carbon disulfide	ND	10	ug/L	SW-846/8240		
Carbon tetrachloride	ND	10	ug/L	SW-846/8240		
Chlorobenzene	ND	10	ug/L	SW-846/8240		
Chloroethane	ND	10	ug/L	SW-846/8240		
Chloroform	ND	10	ug/L	SW-846/8240		
Chloromethane	ND	10	ug/L	SW-846/8240		
Dibromochloromethane	ND	10	ug/L	SW-846/8240		
1,1-Dichloroethane	ND	10	ug/L	SW-846/8240		
1,2-Dichloroethane	ND	10	ug/L	SW-846/8240		
1,1-Dichloroethene	ND	10	ug/L	SW-846/8240		
1,2-Dichloroethene (Total)	ND	10	ug/L	SW-846/8240		
1,2-Dichloropropane	ND	10	ug/L	SW-846/8240		
cis-1,3-Dichloropropene	ND	10	ug/L	SW-846/8240		

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8971

WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-MW-09-70 (MW-09)
DATE SAMPLED.....: 05/19/94
TIME SAMPLED.....: 15:20
WORK DESCRIPTION...: 153503.03

LABORATORY I.D...: 942349-0009
DATE RECEIVED....: 05/23/94
TIME RECEIVED....: 08:00
REMARKS.....: SAMPLED BY: WHITEHEAD/VICKERY

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
trans-1,3-Dichloropropene	ND	10	ug/L	SW-846/8240		
Ethylbenzene	ND	10	ug/L	SW-846/8240		
2-Hexanone	ND	10	ug/L	SW-846/8240		
Methylene chloride	ND	10	ug/L	SW-846/8240		
4-Methyl-2-pentanone	ND	10	ug/L	SW-846/8240		
Styrene	ND	10	ug/L	SW-846/8240		
1,1,2,2-Tetrachloroethane	ND	10	ug/L	SW-846/8240		
Tetrachloroethene	ND	10	ug/L	SW-846/8240		
Toluene	12	10	ug/L	SW-846/8240		
1,1,1-Trichloroethane	ND	10	ug/L	SW-846/8240		
1,1,2-Trichloroethane	ND	10	ug/L	SW-846/8240		
Trichloroethene	ND	10	ug/L	SW-846/8240		
Total Xylenes	ND	10	ug/L	SW-846/8240		
Vinyl chloride	ND	10	ug/L	SW-846/8240		

008972

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8972

WESTERN ATLAS

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LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-TB-02-71 (TRIP BLANK)
DATE SAMPLED.....: 05/19/94
TIME SAMPLED.....: 15:20
WORK DESCRIPTION...: 153503.03

LABORATORY I.D...: 942349-0010
DATE RECEIVED....: 05/23/94
TIME RECEIVED....: 08:00
REMARKS.....: SAMPLED BY: WHITEHEAD/VICKERY

008973

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Volatile Organic Contaminants		*1		SW-846/8240	05/25/94	MJH
Acetone	10	10	ug/L	SW-846/8240		
Benzene	ND	10	ug/L	SW-846/8240		
Bromodichloromethane	ND	10	ug/L	SW-846/8240		
Bromoform	ND	10	ug/L	SW-846/8240		
Bromomethane	ND	10	ug/L	SW-846/8240		
2-Butanone (MEK)	ND	10	ug/L	SW-846/8240		
Carbon disulfide	ND	10	ug/L	SW-846/8240		
Carbon tetrachloride	ND	10	ug/L	SW-846/8240		
Chlorobenzene	ND	10	ug/L	SW-846/8240		
Chloroethane	ND	10	ug/L	SW-846/8240		
Chloroform	ND	10	ug/L	SW-846/8240		
Chloromethane	ND	10	ug/L	SW-846/8240		
Dibromochloromethane	ND	10	ug/L	SW-846/8240		
1,1-Dichloroethane	ND	10	ug/L	SW-846/8240		
1,2-Dichloroethane	ND	10	ug/L	SW-846/8240		
1,1-Dichloroethene	ND	10	ug/L	SW-846/8240		
1,2-Dichloroethene (Total)	ND	10	ug/L	SW-846/8240		
1,2-Dichloropropane	ND	10	ug/L	SW-846/8240		
cis-1,3-Dichloropropene	ND	10	ug/L	SW-846/8240		
trans-1,3-Dichloropropene	ND	10	ug/L	SW-846/8240		
Ethylbenzene	ND	10	ug/L	SW-846/8240		
2-Hexanone	ND	10	ug/L	SW-846/8240		
Methylene chloride	ND	10	ug/L	SW-846/8240		
4-Methyl-2-pentanone	ND	10	ug/L	SW-846/8240		
Styrene	ND	10	ug/L	SW-846/8240		
1,1,2,2-Tetrachloroethane	ND	10	ug/L	SW-846/8240		
Tetrachloroethene	ND	10	ug/L	SW-846/8240		
Toluene	ND	10	ug/L	SW-846/8240		
1,1,1-Trichloroethane	ND	10	ug/L	SW-846/8240		
1,1,2-Trichloroethane	ND	10	ug/L	SW-846/8240		
Trichloroethene	ND	10	ug/L	SW-846/8240		
Total Xylenes	ND	10	ug/L	SW-846/8240		
Vinyl chloride	ND	10	ug/L	SW-846/8240		

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008973

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8973

WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-EQ-02-72 (EQUIPMENT BLANK)
DATE SAMPLED.....: 05/19/94
TIME SAMPLED.....: 15:25
WORK DESCRIPTION...: 153503.03

LABORATORY I.D...: 942349-0011
DATE RECEIVED....: 05/23/94
TIME RECEIVED....: 08:00
REMARKS.....: SAMPLED BY: WHITEHEAD/VICKERY

008974

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Volatile Organic Contaminants		*1		SW-846/8240	05/25/94	MJH
Acetone	11	10	ug/L	SW-846/8240		
Benzene	ND	10	ug/L	SW-846/8240		
Bromodichloromethane	ND	10	ug/L	SW-846/8240		
Bromoform	ND	10	ug/L	SW-846/8240		
Bromomethane	ND	10	ug/L	SW-846/8240		
2-Butanone (MEK)	ND	10	ug/L	SW-846/8240		
Carbon disulfide	ND	10	ug/L	SW-846/8240		
Carbon tetrachloride	ND	10	ug/L	SW-846/8240		
Chlorobenzene	ND	10	ug/L	SW-846/8240		
Chloroethane	ND	10	ug/L	SW-846/8240		
Chloroform	ND	10	ug/L	SW-846/8240		
Chloromethane	ND	10	ug/L	SW-846/8240		
Dibromochloromethane	ND	10	ug/L	SW-846/8240		
1,1-Dichloroethane	ND	10	ug/L	SW-846/8240		
1,2-Dichloroethane	ND	10	ug/L	SW-846/8240		
1,1-Dichloroethene	ND	10	ug/L	SW-846/8240		
1,2-Dichloroethene (Total)	ND	10	ug/L	SW-846/8240		
1,2-Dichloropropane	ND	10	ug/L	SW-846/8240		
cis-1,3-Dichloropropene	ND	10	ug/L	SW-846/8240		
trans-1,3-Dichloropropene	ND	10	ug/L	SW-846/8240		
Ethylbenzene	ND	10	ug/L	SW-846/8240		
2-Hexanone	ND	10	ug/L	SW-846/8240		
Methylene chloride	ND	10	ug/L	SW-846/8240		
4-Methyl-2-pentanone	ND	10	ug/L	SW-846/8240		
Styrene	ND	10	ug/L	SW-846/8240		
1,1,2,2-Tetrachloroethane	ND	10	ug/L	SW-846/8240		
Tetrachloroethene	ND	10	ug/L	SW-846/8240		
Toluene	ND	10	ug/L	SW-846/8240		
1,1,1-Trichloroethane	ND	10	ug/L	SW-846/8240		
1,1,2-Trichloroethane	ND	10	ug/L	SW-846/8240		
Trichloroethene	ND	10	ug/L	SW-846/8240		
Total Xylenes	ND	10	ug/L	SW-846/8240		
Vinyl chloride	ND	10	ug/L	SW-846/8240		

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8974

WESTERN ATLAS

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LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-MW-10-73 (MW-10)
DATE SAMPLED.....: 05/19/94
TIME SAMPLED.....: 17:10
WORK DESCRIPTION...: 153503.03

LABORATORY I.D...: 942349-0012
DATE RECEIVED....: 05/23/94
TIME RECEIVED....: 08:00
REMARKS.....: SAMPLED BY: WHITEHEAD/VICKERY

008975

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Semi-volatile Organic Contaminants		*1		SW-846/8270	06/07/94	DFM
Acenaphthene	ND	10	ug/L	SW-846/8270		
Acenaphthylene	ND	10	ug/L	SW-846/8270		
Anthracene	ND	10	ug/L	SW-846/8270		
Benzo(a)anthracene	ND	10	ug/L	SW-846/8270		
Benzo(b)fluoranthene	ND	10	ug/L	SW-846/8270		
Benzo(k)fluoranthene	ND	10	ug/L	SW-846/8270		
Benzo(ghi)perylene	ND	10	ug/L	SW-846/8270		
Benzo(a)pyrene	ND	10	ug/L	SW-846/8270		
Bis(2-chloroethoxy)methane	ND	10	ug/L	SW-846/8270		
Bis(2-chloroethyl)ether	ND	10	ug/L	SW-846/8270		
Bis(2-chloroisopropyl)ether	ND	10	ug/L	SW-846/8270		
Bis(2-ethylhexyl) phthalate	ND	10	ug/L	SW-846/8270		
4-Bromophenyl phenyl ether	ND	10	ug/L	SW-846/8270		
Butyl benzyl phthalate	ND	10	ug/L	SW-846/8270		
Carbazole	ND	10	ug/L	SW-846/8270		
4-Chloroaniline	ND	10	ug/L	SW-846/8270		
4-Chloro-3-methylphenol	ND	10	ug/L	SW-846/8270		
2-Chloronaphthalene	ND	10	ug/L	SW-846/8270		
2-Chlorophenol	ND	10	ug/L	SW-846/8270		
4-Chlorophenyl phenyl ether	ND	10	ug/L	SW-846/8270		
Chrysene	ND	10	ug/L	SW-846/8270		
2-Methylphenol	ND	10	ug/L	SW-846/8270		
4-Methylphenol	ND	10	ug/L	SW-846/8270		
Dibenzo(a,h)anthracene	ND	10	ug/L	SW-846/8270		
Dibenzofuran	ND	10	ug/L	SW-846/8270		
Di-n-butyl phthalate	ND	10	ug/L	SW-846/8270		
1,2-Dichlorobenzene	ND	10	ug/L	SW-846/8270		
1,3-Dichlorobenzene	ND	10	ug/L	SW-846/8270		
1,4-Dichlorobenzene	ND	10	ug/L	SW-846/8270		
3,3'-Dichlorobenzidine	ND	10	ug/L	SW-846/8270		
2,4-Dichlorophenol	ND	10	ug/L	SW-846/8270		
Diethyl phthalate	ND	10	ug/L	SW-846/8270		
2,4-Dimethylphenol	ND	10	ug/L	SW-846/8270		
Dimethyl phthalate	ND	10	ug/L	SW-846/8270		
2,4-Dinitrophenol	ND	25	ug/L	SW-846/8270		
2,4-Dinitrotoluene	ND	10	ug/L	SW-846/8270		
2,6-Dinitrotoluene	ND	10	ug/L	SW-846/8270		
Di-n-octyl phthalate	ND	10	ug/L	SW-846/8270		
Fluoranthene	ND	10	ug/L	SW-846/8270		
Fluorene	ND	10	ug/L	SW-846/8270		
Hexachlorobenzene	ND	10	ug/L	SW-846/8270		
Hexachlorobutadiene	ND	10	ug/L	SW-846/8270		
Hexachlorocyclopentadiene	ND	10	ug/L	SW-846/8270		

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8975

WESTERN ATLAS

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LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-MW-10-73 (MW-10)
DATE SAMPLED.....: 05/19/94
TIME SAMPLED.....: 17:10
WORK DESCRIPTION...: 153503.03

LABORATORY I.D...: 942349-0012
DATE RECEIVED....: 05/23/94
TIME RECEIVED....: 08:00
REMARKS.....: SAMPLED BY: WHITEHEAD/VICKERY

008976

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Hexachloroethane	ND	10	ug/L	SW-846/8270		
Indenol(1,2,3-cd)pyrene	ND	10	ug/L	SW-846/8270		
Isophorone	ND	10	ug/L	SW-846/8270		
2-Methyl-4,6-dinitrophenol	ND	25	ug/L	SW-846/8270		
2-Methylnaphthalene	ND	10	ug/L	SW-846/8270		
Naphthalene	ND	10	ug/L	SW-846/8270		
2-Nitroaniline	ND	25	ug/L	SW-846/8270		
3-Nitroaniline	ND	25	ug/L	SW-846/8270		
4-Nitroaniline	ND	25	ug/L	SW-846/8270		
Nitrobenzene	ND	10	ug/L	SW-846/8270		
2-Nitrophenol	ND	10	ug/L	SW-846/8270		
4-Nitrophenol	ND	25	ug/L	SW-846/8270		
N-Nitrosodiphenylamine	ND	10	ug/L	SW-846/8270		
N-Nitrosodi-n-propylamine	ND	10	ug/L	SW-846/8270		
Pentachlorophenol	ND	25	ug/L	SW-846/8270		
Phenanthrene	ND	10	ug/L	SW-846/8270		
Phenol	ND	10	ug/L	SW-846/8270		
Pyrene	ND	10	ug/L	SW-846/8270		
1,2,4-Trichlorobenzene	ND	10	ug/L	SW-846/8270		
2,4,6-Trichlorophenol	ND	10	ug/L	SW-846/8270		
2,4,5-Trichlorophenol	ND	25	ug/L	SW-846/8270		
Semivolatile Organics Extraction	COMPLETE			SW-846 3510	05/26/94	CMG
Volatile Organic Contaminants		*1		SW-846/8240	05/25/94	MJH
Acetone	ND	10	ug/L	SW-846/8240		
Benzene	ND	10	ug/L	SW-846/8240		
Bromodichloromethane	ND	10	ug/L	SW-846/8240		
Bromoform	ND	10	ug/L	SW-846/8240		
Bromomethane	ND	10	ug/L	SW-846/8240		
2-Butanone (MEK)	ND	10	ug/L	SW-846/8240		
Carbon disulfide	ND	10	ug/L	SW-846/8240		
Carbon tetrachloride	ND	10	ug/L	SW-846/8240		
Chlorobenzene	ND	10	ug/L	SW-846/8240		
Chloroethane	ND	10	ug/L	SW-846/8240		
Chloroform	ND	10	ug/L	SW-846/8240		
Chloromethane	ND	10	ug/L	SW-846/8240		
Dibromochloromethane	ND	10	ug/L	SW-846/8240		
1,1-Dichloroethane	ND	10	ug/L	SW-846/8240		
1,2-Dichloroethane	ND	10	ug/L	SW-846/8240		
1,1-Dichloroethene	ND	10	ug/L	SW-846/8240		
1,2-Dichloroethene (Total)	ND	10	ug/L	SW-846/8240		
1,2-Dichloropropane	ND	10	ug/L	SW-846/8240		
cis-1,3-Dichloropropene	ND	10	ug/L	SW-846/8240		

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8976

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WESTERN ATLAS

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LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-MW-10-73 (MW-10)
DATE SAMPLED.....: 05/19/94
TIME SAMPLED.....: 17:10
WORK DESCRIPTION...: 153503.03

LABORATORY I.D...: 942349-0012
DATE RECEIVED....: 05/23/94
TIME RECEIVED....: 08:00
REMARKS.....: SAMPLED BY: WHITEHEAD/VICKERY

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECH
trans-1,3-Dichloropropene	ND	10	ug/L	SW-846/8240		
Ethylbenzene	ND	10	ug/L	SW-846/8240		
2-Hexanone	ND	10	ug/L	SW-846/8240		
Methylene chloride	10	10	ug/L	SW-846/8240		
4-Methyl-2-pentanone	ND	10	ug/L	SW-846/8240		
Styrene	ND	10	ug/L	SW-846/8240		
1,1,2,2-Tetrachloroethane	ND	10	ug/L	SW-846/8240		
Tetrachloroethene	ND	10	ug/L	SW-846/8240		
Toluene	ND	10	ug/L	SW-846/8240		
1,1,1-Trichloroethane	ND	10	ug/L	SW-846/8240		
1,1,2-Trichloroethane	ND	10	ug/L	SW-846/8240		
Trichloroethene	ND	10	ug/L	SW-846/8240		
Total Xylenes	ND	10	ug/L	SW-846/8240		
Vinyl chloride	ND	10	ug/L	SW-846/8240		

008977

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8977

WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SW-04-74 (WEST LAGOON)
DATE SAMPLED.....: 05/20/94
TIME SAMPLED.....: 08:25
WORK DESCRIPTION...: 153503.03

LABORATORY I.D...: 942349-0013
DATE RECEIVED....: 05/23/94
TIME RECEIVED....: 08:00
REMARKS.....: SAMPLED BY: WHITEHEAD/VICKERY

008978

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Semi-volatile Organic Contaminants		*1		SW-846/8270	06/07/94	DFM
Acenaphthene	ND	10	ug/L	SW-846/8270		
Acenaphthylene	ND	10	ug/L	SW-846/8270		
Anthracene	ND	10	ug/L	SW-846/8270		
Benzo(a)anthracene	ND	10	ug/L	SW-846/8270		
Benzo(b)fluoranthene	ND	10	ug/L	SW-846/8270		
Benzo(k)fluoranthene	ND	10	ug/L	SW-846/8270		
Benzo(ghi)perylene	ND	10	ug/L	SW-846/8270		
Benzo(a)pyrene	ND	10	ug/L	SW-846/8270		
Bis(2-chloroethoxy)methane	ND	10	ug/L	SW-846/8270		
Bis(2-chloroethyl)ether	ND	10	ug/L	SW-846/8270		
Bis(2-chloroisopropyl)ether	ND	10	ug/L	SW-846/8270		
Bis(2-ethylhexyl) phthalate	ND	10	ug/L	SW-846/8270		
4-Bromophenyl phenyl ether	ND	10	ug/L	SW-846/8270		
Butyl benzyl phthalate	ND	10	ug/L	SW-846/8270		
Carbazole	ND	10	ug/L	SW-846/8270		
4-Chloroaniline	ND	10	ug/L	SW-846/8270		
4-Chloro-3-methylphenol	ND	10	ug/L	SW-846/8270		
2-Chloronaphthalene	ND	10	ug/L	SW-846/8270		
2-Chlorophenol	ND	10	ug/L	SW-846/8270		
4-Chlorophenyl phenyl ether	ND	10	ug/L	SW-846/8270		
Chrysene	ND	10	ug/L	SW-846/8270		
2-Methylphenol	ND	10	ug/L	SW-846/8270		
4-Methylphenol	ND	10	ug/L	SW-846/8270		
Dibenzo(a,h)anthracene	ND	10	ug/L	SW-846/8270		
Dibenzofuran	ND	10	ug/L	SW-846/8270		
Di-n-butyl phthalate	ND	10	ug/L	SW-846/8270		
1,2-Dichlorobenzene	ND	10	ug/L	SW-846/8270		
1,3-Dichlorobenzene	ND	10	ug/L	SW-846/8270		
1,4-Dichlorobenzene	ND	10	ug/L	SW-846/8270		
3,3'-Dichlorobenzidine	ND	10	ug/L	SW-846/8270		
2,4-Dichlorophenol	ND	10	ug/L	SW-846/8270		
Diethyl phthalate	ND	10	ug/L	SW-846/8270		
2,4-Dimethylphenol	ND	10	ug/L	SW-846/8270		
Dimethyl phthalate	ND	10	ug/L	SW-846/8270		
2,4-Dinitrophenol	ND	25	ug/L	SW-846/8270		
2,4-Dinitrotoluene	ND	10	ug/L	SW-846/8270		
2,6-Dinitrotoluene	ND	10	ug/L	SW-846/8270		
Di-n-octyl phthalate	ND	10	ug/L	SW-846/8270		
Fluoranthene	ND	10	ug/L	SW-846/8270		
Fluorene	ND	10	ug/L	SW-846/8270		
Hexachlorobenzene	ND	10	ug/L	SW-846/8270		
Hexachlorobutadiene	ND	10	ug/L	SW-846/8270		
Hexachlorocyclopentadiene	ND	10	ug/L	SW-846/8270		

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WESTERN ATLAS

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LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SW-04-74 (WEST LAGOON)
DATE SAMPLED.....: 05/20/94
TIME SAMPLED.....: 08:25
WORK DESCRIPTION...: 153503.03

LABORATORY I.D...: 942349-0013
DATE RECEIVED....: 05/23/94
TIME RECEIVED....: 08:00
REMARKS.....: SAMPLED BY: WHITEHEAD/VICKERY

008979

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Hexachloroethane	ND	10	ug/L	SW-846/8270		
Indenol(1,2,3-cd)pyrene	ND	10	ug/L	SW-846/8270		
Isophorone	ND	10	ug/L	SW-846/8270		
2-Methyl-4,6-dinitrophenol	ND	25	ug/L	SW-846/8270		
2-Methylnaphthalene	ND	10	ug/L	SW-846/8270		
Naphthalene	ND	10	ug/L	SW-846/8270		
2-Nitroaniline	ND	25	ug/L	SW-846/8270		
3-Nitroaniline	ND	25	ug/L	SW-846/8270		
4-Nitroaniline	ND	25	ug/L	SW-846/8270		
Nitrobenzene	ND	10	ug/L	SW-846/8270		
2-Nitrophenol	ND	10	ug/L	SW-846/8270		
4-Nitrophenol	ND	25	ug/L	SW-846/8270		
N-Nitrosodiphenylamine	ND	10	ug/L	SW-846/8270		
N-Nitrosodi-n-propylamine	ND	10	ug/L	SW-846/8270		
Pentachlorophenol	ND	25	ug/L	SW-846/8270		
Phenanthrene	ND	10	ug/L	SW-846/8270		
Phenol	ND	10	ug/L	SW-846/8270		
Pyrene	ND	10	ug/L	SW-846/8270		
1,2,4-Trichlorobenzene	ND	10	ug/L	SW-846/8270		
2,4,6-Trichlorophenol	ND	10	ug/L	SW-846/8270		
2,4,5-Trichlorophenol	ND	25	ug/L	SW-846/8270		
Semivolatile Organics Extraction	COMPLETE			SW-846 3510	05/26/94	CMG
Volatile Organic Contaminants		*1		SW-846/8240	05/25/94	MJH
Acetone	ND	10	ug/L	SW-846/8240		
Benzene	ND	10	ug/L	SW-846/8240		
Bromodichloromethane	ND	10	ug/L	SW-846/8240		
Bromoform	ND	10	ug/L	SW-846/8240		
Bromomethane	ND	10	ug/L	SW-846/8240		
2-Butanone (MEK)	ND	10	ug/L	SW-846/8240		
Carbon disulfide	ND	10	ug/L	SW-846/8240		
Carbon tetrachloride	ND	10	ug/L	SW-846/8240		
Chlorobenzene	ND	10	ug/L	SW-846/8240		
Chloroethane	ND	10	ug/L	SW-846/8240		
Chloroform	ND	10	ug/L	SW-846/8240		
Chloromethane	ND	10	ug/L	SW-846/8240		
Dibromochloromethane	ND	10	ug/L	SW-846/8240		
1,1-Dichloroethane	ND	10	ug/L	SW-846/8240		
1,2-Dichloroethane	ND	10	ug/L	SW-846/8240		
1,1-Dichloroethene	ND	10	ug/L	SW-846/8240		
1,2-Dichloroethene (Total)	ND	10	ug/L	SW-846/8240		
1,2-Dichloropropane	ND	10	ug/L	SW-846/8240		
cis-1,3-Dichloropropene	ND	10	ug/L	SW-846/8240		

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8979

WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SW-04-74 (WEST LAGOON)
DATE SAMPLED.....: 05/20/94
TIME SAMPLED.....: 08:25
WORK DESCRIPTION...: 153503.03

LABORATORY I.D...: 942349-0013
DATE RECEIVED....: 05/23/94
TIME RECEIVED....: 08:00
REMARKS.....: SAMPLED BY: WHITEHEAD/VICKERY

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
trans-1,3-Dichloropropene	ND	10	ug/L	SW-846/8240		
Ethylbenzene	ND	10	ug/L	SW-846/8240		
2-Hexanone	ND	10	ug/L	SW-846/8240		
Methylene chloride	10	10	ug/L	SW-846/8240		
4-Methyl-2-pentanone	ND	10	ug/L	SW-846/8240		
Styrene	ND	10	ug/L	SW-846/8240		
1,1,2,2-Tetrachloroethane	ND	10	ug/L	SW-846/8240		
Tetrachloroethene	ND	10	ug/L	SW-846/8240		
Toluene	ND	10	ug/L	SW-846/8240		
1,1,1-Trichloroethane	ND	10	ug/L	SW-846/8240		
1,1,2-Trichloroethane	ND	10	ug/L	SW-846/8240		
Trichloroethene	ND	10	ug/L	SW-846/8240		
Total Xylenes	ND	10	ug/L	SW-846/8240		
Vinyl chloride	ND	10	ug/L	SW-846/8240		

008980

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8980

WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-MW-01-77 (MW-01)
DATE SAMPLED.....: 05/20/94
TIME SAMPLED.....: 09:10
WORK DESCRIPTION...: 153503.03

LABORATORY I.D...: 942349-0014
DATE RECEIVED....: 05/23/94
TIME RECEIVED....: 08:00
REMARKS.....: SAMPLED BY: WHITEHEAD/VICKERY

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Semi-volatile Organic Contaminants		*1		SW-846/8270	06/07/94	DFM
Acenaphthene	ND	10	ug/L	SW-846/8270		
Acenaphthylene	ND	10	ug/L	SW-846/8270		
Anthracene	ND	10	ug/L	SW-846/8270		
Benzo(a)anthracene	ND	10	ug/L	SW-846/8270		
Benzo(b)fluoranthene	ND	10	ug/L	SW-846/8270		
Benzo(k)fluoranthene	ND	10	ug/L	SW-846/8270		
Benzo(ghi)perylene	ND	10	ug/L	SW-846/8270		
Benzo(a)pyrene	ND	10	ug/L	SW-846/8270		
Bis(2-chloroethoxy)methane	ND	10	ug/L	SW-846/8270		
Bis(2-chloroethyl)ether	ND	10	ug/L	SW-846/8270		
Bis(2-chloroisopropyl)ether	ND	10	ug/L	SW-846/8270		
Bis(2-ethylhexyl) phthalate	ND	10	ug/L	SW-846/8270		
4-Bromophenyl phenyl ether	ND	10	ug/L	SW-846/8270		
Butyl benzyl phthalate	ND	10	ug/L	SW-846/8270		
Carbazole	ND	10	ug/L	SW-846/8270		
4-Chloroaniline	ND	10	ug/L	SW-846/8270		
4-Chloro-3-methylphenol	ND	10	ug/L	SW-846/8270		
2-Chloronaphthalene	ND	10	ug/L	SW-846/8270		
2-Chlorophenol	ND	10	ug/L	SW-846/8270		
4-Chlorophenyl phenyl ether	ND	10	ug/L	SW-846/8270		
Chrysene	ND	10	ug/L	SW-846/8270		
2-Methylphenol	ND	10	ug/L	SW-846/8270		
4-Methylphenol	ND	10	ug/L	SW-846/8270		
Dibenzo(a,h)anthracene	ND	10	ug/L	SW-846/8270		
Dibenzofuran	ND	10	ug/L	SW-846/8270		
Di-n-butyl phthalate	ND	10	ug/L	SW-846/8270		
1,2-Dichlorobenzene	ND	10	ug/L	SW-846/8270		
1,3-Dichlorobenzene	ND	10	ug/L	SW-846/8270		
1,4-Dichlorobenzene	ND	10	ug/L	SW-846/8270		
3,3'-Dichlorobenzidine	ND	10	ug/L	SW-846/8270		
2,4-Dichlorophenol	ND	10	ug/L	SW-846/8270		
Diethyl phthalate	ND	10	ug/L	SW-846/8270		
2,4-Dimethylphenol	ND	10	ug/L	SW-846/8270		
Dimethyl phthalate	ND	10	ug/L	SW-846/8270		
2,4-Dinitrophenol	ND	25	ug/L	SW-846/8270		
2,4-Dinitrotoluene	ND	10	ug/L	SW-846/8270		
2,6-Dinitrotoluene	ND	10	ug/L	SW-846/8270		
Di-n-octyl phthalate	ND	10	ug/L	SW-846/8270		
Fluoranthene	ND	10	ug/L	SW-846/8270		
Fluorene	ND	10	ug/L	SW-846/8270		
Hexachlorobenzene	ND	10	ug/L	SW-846/8270		
Hexachlorobutadiene	ND	10	ug/L	SW-846/8270		
Hexachlorocyclopentadiene	ND	10	ug/L	SW-846/8270		

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8981

WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-MW-01-77 (MW-01)
DATE SAMPLED.....: 05/20/94
TIME SAMPLED.....: 09:10
WORK DESCRIPTION...: 153503.03

LABORATORY I.D...: 942349-0014
DATE RECEIVED....: 05/23/94
TIME RECEIVED....: 08:00
REMARKS.....: SAMPLED BY: WHITEHEAD/VICKERY

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TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Hexachloroethane	ND	10	ug/L	SW-846/8270		
Indenol(1,2,3-cd)pyrene	ND	10	ug/L	SW-846/8270		
Isophorone	ND	10	ug/L	SW-846/8270		
2-Methyl-4,6-dinitrophenol	ND	25	ug/L	SW-846/8270		
2-Methylnaphthalene	ND	10	ug/L	SW-846/8270		
Naphthalene	ND	10	ug/L	SW-846/8270		
2-Nitroaniline	ND	25	ug/L	SW-846/8270		
3-Nitroaniline	ND	25	ug/L	SW-846/8270		
4-Nitroaniline	ND	25	ug/L	SW-846/8270		
Nitrobenzene	ND	10	ug/L	SW-846/8270		
2-Nitrophenol	ND	10	ug/L	SW-846/8270		
4-Nitrophenol	ND	25	ug/L	SW-846/8270		
N-Nitrosodiphenylamine	ND	10	ug/L	SW-846/8270		
N-Nitrosodi-n-propylamine	ND	10	ug/L	SW-846/8270		
Pentachlorophenol	ND	25	ug/L	SW-846/8270		
Phenanthrene	ND	10	ug/L	SW-846/8270		
Phenol	ND	10	ug/L	SW-846/8270		
Pyrene	ND	10	ug/L	SW-846/8270		
1,2,4-Trichlorobenzene	ND	10	ug/L	SW-846/8270		
2,4,6-Trichlorophenol	ND	10	ug/L	SW-846/8270		
2,4,5-Trichlorophenol	ND	25	ug/L	SW-846/8270		
Semivolatile Organics Extraction	COMPLETE			SW-846 3510	05/26/94	CMG
Volatile Organic Contaminants		*1		SW-846/8240	05/25/94	MJH
Acetone	11	10	ug/L	SW-846/8240		
Benzene	ND	10	ug/L	SW-846/8240		
Bromodichloromethane	ND	10	ug/L	SW-846/8240		
Bromoform	ND	10	ug/L	SW-846/8240		
Bromomethane	ND	10	ug/L	SW-846/8240		
2-Butanone (MEK)	ND	10	ug/L	SW-846/8240		
Carbon disulfide	ND	10	ug/L	SW-846/8240		
Carbon tetrachloride	ND	10	ug/L	SW-846/8240		
Chlorobenzene	ND	10	ug/L	SW-846/8240		
Chloroethane	ND	10	ug/L	SW-846/8240		
Chloroform	ND	10	ug/L	SW-846/8240		
Chloromethane	ND	10	ug/L	SW-846/8240		
Dibromochloromethane	ND	10	ug/L	SW-846/8240		
1,1-Dichloroethane	ND	10	ug/L	SW-846/8240		
1,2-Dichloroethane	ND	10	ug/L	SW-846/8240		
1,1-Dichloroethene	ND	10	ug/L	SW-846/8240		
1,2-Dichloroethene (Total)	ND	10	ug/L	SW-846/8240		
1,2-Dichloropropane	ND	10	ug/L	SW-846/8240		
cis-1,3-Dichloropropene	ND	10	ug/L	SW-846/8240		

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8982

WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS

07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-MW-01-77 (MW-01)
DATE SAMPLED.....: 05/20/94
TIME SAMPLED.....: 09:10
WORK DESCRIPTION...: 153503.03

LABORATORY I.D...: 942349-0014
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REMARKS.....: SAMPLED BY: WHITEHEAD/VICKERY

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
trans-1,3-Dichloropropene	ND	10	ug/L	SW-846/8240		
Ethylbenzene	ND	10	ug/L	SW-846/8240		
2-Hexanone	ND	10	ug/L	SW-846/8240		
Methylene chloride	ND	10	ug/L	SW-846/8240		
4-Methyl-2-pentanone	ND	10	ug/L	SW-846/8240		
Styrene	ND	10	ug/L	SW-846/8240		
1,1,2,2-Tetrachloroethane	ND	10	ug/L	SW-846/8240		
Tetrachloroethene	ND	10	ug/L	SW-846/8240		
Toluene	ND	10	ug/L	SW-846/8240		
1,1,1-Trichloroethane	ND	10	ug/L	SW-846/8240		
1,1,2-Trichloroethane	ND	10	ug/L	SW-846/8240		
Trichloroethene	ND	10	ug/L	SW-846/8240		
Total Xylenes	ND	10	ug/L	SW-846/8240		
Vinyl chloride	ND	10	ug/L	SW-846/8240		

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WESTERN ATLAS

Core Laboratories

QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

ANALYSIS				DUPLICATES		REFERENCE STANDARDS		MATRIX SPIKES		
ANALYSIS TYPE	ANALYSIS SUB-TYPE	ANALYSIS I.D.	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (|A-B|)	TRUE VALUE	PERCENT RECOVERY	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY
PARAMETER:Total Dissolved Solids (TDS) DATE/TIME ANALYZED:05/26/94 16:33 QC BATCH NUMBER:977941										
REPORTING LIMIT/DF: 10 UNITS:mg/L METHOD REFERENCE :EPA 160.1 TECHNICIAN:CPG										
BLANK	MB	052694	<10							
DUPLICATE	MD	942357-002	788	672	16					
DUPLICATE	MD	942357-008	760	672	12					
PARAMETER:Alkalinity, total DATE/TIME ANALYZED:06/02/94 19:35 QC BATCH NUMBER:978262										
REPORTING LIMIT/DF: 1 UNITS:mg/L CaCO3 METHOD REFERENCE :EPA 310.1 TECHNICIAN:CEP										
STANDARD	RS	QC940065	99			97	102			
DUPLICATE	MD	942349-06	500	460	8					

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WESTERN ATLAS

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QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Semi-volatile Organic Contaminants DATE ANALYZED: 05/31/94 TIME ANALYZED: 14:58 METHOD: SW-846/8270 QC NUMBER:978153

BLANKS

TEST DESCRIPTION	ANALY	SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Phenol	MB		SON052594S	1	<10	10	ug/L
2-Chlorophenol	MB		SON052594S	1	<10	10	ug/L
1,4-Dichlorobenzene	MB		SON052594B	1	<10	10	ug/L
N-Nitrosodi-n-propylamine	MB		SON052594S	1	<10	10	ug/L
1,2,4-Trichlorobenzene	MB		SON052594S	1	<10	10	ug/L
4-Chloro-3-methylphenol	MB		SON052594S	1	<10	10	ug/L
Acenaphthene	MB		SON052594S	1	<10	10	ug/L
4-Nitrophenol	MB		SON052594S	1	<25	25	ug/L
2,4-Dinitrotoluene	MB		SON052594S	1	<10	10	ug/L
Pentachlorophenol	MB		SON052594S	1	<25	25	ug/L
Pyrene	MB		SON052594S	1	<10	10	ug/L
Acenaphthylene	MB		SON052594S	1	<10	10	ug/L
Anthracene	MB		SON052594S	1	<10	10	ug/L
Benzo(a)anthracene	MB		SON052594S	1	<10	10	ug/L
Benzo(b)fluoranthene	MB		SON052594S	1	<10	10	ug/L
Benzo(k)fluoranthene	MB		SON052594S	1	<10	10	ug/L
zo(ghi)perylene	MB		SON052594S	1	<10	10	ug/L
zo(a)pyrene	MB		SON052594S	1	<10	10	ug/L
Bis(2-chloroethoxy)methane	MB		SON052594S	1	<10	10	ug/L
Bis(2-chloroethyl)ether	MB		SON052594S	1	<10	10	ug/L
Bis(2-chloroisopropyl)ether	MB		SON052594S	1	<10	10	ug/L
Bis(2-ethylhexyl) phthalate	MB		SON052594S	1	<10	10	ug/L
4-Bromophenyl phenyl ether	MB		SON052594S	1	<10	10	ug/L
Butyl benzyl phthalate	MB		SON052594S	1	<10	10	ug/L
Carbazole	MB		SON052594S	1	<10	10	ug/L
4-Chloroaniline	MB		SON052594S	1	<10	10	ug/L
2-Chloronaphthalene	MB		SON052594S	1	<10	10	ug/L
4-Chlorophenyl phenyl ether	MB		SON052594S	1	<10	10	ug/L
Chrysene	MB		SON052594S	1	<10	10	ug/L
2-Methylphenol	MB		SON052594S	1	<10	10	ug/L
4-Methylphenol	MB		SON052594S	1	<10	10	ug/L
Dibenzo(a,h)anthracene	MB		SON052594S	1	<10	10	ug/L
Dibenzofuran	MB		SON052594S	1	<10	10	ug/L
Di-n-butyl phthalate	MB		SON052594S	1	<10	10	ug/L
1,2-Dichlorobenzene	MB		SON052594S	1	<10	10	ug/L
1,3-Dichlorobenzene	MB		SON052594S	1	<10	10	ug/L
3,3'-Dichlorobenzidine	MB		SON052594S	1	<10	10	ug/L
2,4-Dichlorophenol	MB		SON052594S	1	<10	10	ug/L
Diethyl phthalate	MB		SON052594S	1	<10	10	ug/L
2,4-Dimethylphenol	MB		SON052594S	1	<10	10	ug/L
Dimethyl phthalate	MB		SON052594S	1	<10	10	ug/L
2,4-Dinitrophenol	MB		SON052594S	1	<25	25	ug/L
2,6-Dinitrotoluene	MB		SON052594S	1	<10	10	ug/L
Di-n-octyl phthalate	MB		SON052594S	1	<10	10	ug/L
Fluoranthene	MB		SON052594S	1	<10	10	ug/L
Fluorene	MB		SON052594S	1	<10	10	ug/L

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WESTERN ATLAS

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QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Semi-volatile Organic Contaminants DATE ANALYZED: 05/31/94 TIME ANALYZED: 14:58 METHOD: SW-846/8270 QC NUMBER:978153

BLANKS

TEST DESCRIPTION	ANALY SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Hexachlorobenzene	MB	SON052594S	1	<10	10	ug/L
Hexachlorobutadiene	MB	SON052594S	1	<10	10	ug/L
Hexachlorocyclopentadiene	MB	SON052594S	1	<10	10	ug/L
Hexachloroethane	MB	SON052594S	1	<10	10	ug/L
Indenol(1,2,3-cd)pyrene	MB	SON052594S	1	<10	10	ug/L
Isophorone	MB	SON052594S	1	<10	10	ug/L
2-Methyl-4,6-dinitrophenol	MB	SON052594S	1	<25	25	ug/L
2-Methylnaphthalene	MB	SON052594S	1	<10	10	ug/L
Naphthalene	MB	SON052594S	1	<10	10	ug/L
2-Nitroaniline	MB	SON052594S	1	<25	25	ug/L
3-Nitroaniline	MB	SON052594S	1	<25	25	ug/L
4-Nitroaniline	MB	SON052594S	1	<25	25	ug/L
Nitrobenzene	MB	SON052594S	1	<10	10	ug/L
2-Nitrophenol	MB	SON052594S	1	<10	10	ug/L
N-Nitrosodiphenylamine	MB	SON052594S	1	<10	10	ug/L
Phenanthrene	MB	SON052594S	1	<10	10	ug/L
,6-Trichlorophenol	MB	SON052594S	1	<10	10	ug/L
,5-Trichlorophenol	MB	SON052594S	1	<25	25	ug/L

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WESTERN ATLAS

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QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Semi-volatile Organic Contaminants DATE ANALYZED: 05/31/94 TIME ANALYZED: 14:58 METHOD: SW-846/8270 QC NUMBER:978153

REFERENCE STANDARDS

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	TRUE VALUE	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
2-Fluorophenol	SS	942184-003	1	118	200	59	10	ug/L
	SS	942184-005	1	78	200	39	10	ug/L
	SS	942184-006	1	139	200	70	10	ug/L
	SS	942301-001	1	117	200	58	10	ug/L
	SS	942301-002	1	139	200	70	10	ug/L
	SS	942301-003	1	130	200	65	10	ug/L
	SS	942301-004	1	97	200	48	10	ug/L
	SS	942349-003	1	140	200	70	10	ug/L
Phenol-d5	SS	942184-003	1	111	200	56	10	ug/L
	SS	942184-005	1	83	200	42	10	ug/L
	SS	942184-006	1	137	200	68	10	ug/L
	SS	942301-001	1	103	200	52	10	ug/L
	SS	942301-002	1	136	200	68	10	ug/L
	SS	942301-003	1	120	200	60	10	ug/L
	SS	942301-004	1	94	200	47	10	ug/L
	SS	942349-003	1	138	200	69	10	ug/L
.robenzene-d5	SS	942184-003	1	60	100	60	10	ug/L
	SS	942184-005	1	39	100	39	10	ug/L
	SS	942184-006	1	69	100	69	10	ug/L
	SS	942301-001	1	55	100	55	10	ug/L
	SS	942301-002	1	76	100	76	10	ug/L
	SS	942301-003	1	64	100	64	10	ug/L
	SS	942301-004	1	50	100	50	10	ug/L
	SS	942349-003	1	72	100	72	10	ug/L
2-Fluorobiphenyl	SS	942184-003	1	60	100	60	10	ug/L
	SS	942184-005	1	46	100	46	10	ug/L
	SS	942184-006	1	69	100	69	10	ug/L
	SS	942301-001	1	51	100	51	10	ug/L
	SS	942301-002	1	58	100	58	10	ug/L
	SS	942301-003	1	62	100	62	10	ug/L
	SS	942301-004	1	50	100	50	10	ug/L
	SS	942349-003	1	67	100	67	10	ug/L
2,4,6-tribromophenol	SS	942184-003	1	116	200	58	10	ug/L
	SS	942184-005	1	91	200	46	10	ug/L
	SS	942184-006	1	130	200	65	10	ug/L
	SS	942301-001	1	91	200	46	10	ug/L
	SS	942301-002	1	115	200	57	10	ug/L
	SS	942301-003	1	119	200	60	10	ug/L
	SS	942301-004	1	103	200	52	10	ug/L
	SS	942349-003	1	152	200	76	10	ug/L
p-Terphenyl-d14	SS	942184-003	1	61	100	61	10	ug/L
	SS	942184-005	1	55	100	55	10	ug/L
	SS	942184-006	1	73	100	73	10	ug/L
	SS	942301-001	1	47	100	47	10	ug/L
	SS	942301-002	1	49	100	49	10	ug/L

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WESTERN ATLAS

Core Laboratories

QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Semi-volatile Organic Contaminants DATE ANALYZED: 05/31/94 TIME ANALYZED: 14:58 METHOD: SW-846/8270 QC NUMBER:978153

REFERENCE STANDARDS

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	TRUE VALUE	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
	SS	942301-003	1	66	100	66	10	ug/L
	SS	942301-004	1	55	100	55	10	ug/L
	SS	942349-003	1	78	100	78	10	ug/L

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QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Semi-volatile Organic Contaminants DATE ANALYZED: 05/31/94 TIME ANALYZED: 14:58 METHOD: SW-846/8270 QC NUMBER:978153

MATRIX SPIKES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Phenol	MS	942301-001	1	67	0	100	67	10	ug/L
2-Chlorophenol	MS	942301-001	1	66	0	100	66	10	ug/L
1,4-Dichlorobenzene	MS	942301-001	1	57	0	100	57	10	ug/L
N-Nitrosodi-n-propylamine	MS	942301-001	1	63	0	100	63	10	ug/L
1,2,4-Trichlorobenzene	MS	942301-001	1	60	0	100	60	10	ug/L
4-Chloro-3-methylphenol	MS	942301-001	1	66	0	100	66	10	ug/L
Acenaphthene	MS	942301-001	1	56	0	100	56	10	ug/L
4-Nitrophenol	MS	942301-001	1	56	0	100	56	25	ug/L
2,4-Dinitrotoluene	MS	942301-001	1	51	0	100	51	10	ug/L
Pentachlorophenol	MS	942301-001	1	33	0	100	33	25	ug/L
Pyrene	MS	942301-001	1	54	0	100	54	10	ug/L

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Semi-volatile Organic Contaminants DATE ANALYZED: 05/31/94 TIME ANALYZED: 14:58 METHOD: SW-846/8270 QC NUMBER:978153

DUPLICATES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (|A-B|)	DETECTION LIMITS	UNITS OF MEASURE
Phenol	MSD	942301-001	1	67	78	15	10	ug/L
2-Chlorophenol	MSD	942301-001	1	66	74	11	10	ug/L
1,4-Dichlorobenzene	MSD	942301-001	1	57	56	2	10	ug/L
N-Nitrosodi-n-propylamine	MSD	942301-001	1	63	70	11	10	ug/L
1,2,4-Trichlorobenzene	MSD	942301-001	1	60	57	5	10	ug/L
4-Chloro-3-methylphenol	MSD	942301-001	1	66	70	6	10	ug/L
Acenaphthene	MSD	942301-001	1	58	58	0	10	ug/L
4-Nitrophenol	MSD	942301-001	1	56	62	6	25	ug/L
2,4-Dinitrotoluene	MSD	942301-001	1	51	53	4	10	ug/L
Pentachlorophenol	MSD	942301-001	1	33	19	14	25	ug/L
Pyrene	MSD	942301-001	1	54	57	5	10	ug/L

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QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Semi-volatile Organic Contaminants DATE ANALYZED: 06/07/94 TIME ANALYZED: 07:46 METHOD: SW-846/8270 QC NUMBER:978840

BLANKS

TEST DESCRIPTION	ANALY SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Phenol	MB	SEP052694	1	<10	10	ug/L
2-Chlorophenol	MB	SEP052694	1	<10	10	ug/L
1,4-Dichlorobenzene	MB	SEP052694	1	<10	10	ug/L
N-Nitrosodi-n-propylamine	MB	SEP052694	1	<10	10	ug/L
1,2,4-Trichlorobenzene	MB	SEP052694	1	<10	10	ug/L
4-Chloro-3-methylphenol	MB	SEP052694	1	<10	10	ug/L
Acenaphthene	MB	SEP052694	1	<10	10	ug/L
4-Nitrophenol	MB	SEP052694	1	<25	25	ug/L
2,4-Dinitrotoluene	MB	SEP052694	1	<10	10	ug/L
Pentachlorophenol	MB	SEP052694	1	<25	25	ug/L
Pyrene	MB	SEP052694	1	<10	10	ug/L
Acenaphthylene	MB	SEP052694	1	<10	10	ug/L
Anthracene	MB	SEP052594	1	<10	10	ug/L
Benzo(a)anthracene	MB	SEP052694	1	<10	10	ug/L
Benzo(b)fluoranthene	MB	SEP052694	1	<10	10	ug/L
Benzo(k)fluoranthene	MB	SEP052694	1	<10	10	ug/L
zo(ghi)perylene	MB	SEP052694	1	<10	10	ug/L
.zo(a)pyrene	MB	SEP052694	1	<10	10	ug/L
Bis(2-chloroethoxy)methane	MB	SEP052694	1	<10	10	ug/L
Bis(2-chloroethyl)ether	MB	SEP052694	1	<10	10	ug/L
Bis(2-chloroisopropyl)ether	MB	SEP052694	1	<10	10	ug/L
Bis(2-ethylhexyl) phthalate	MB	SEP052694	1	<10	10	ug/L
4-Bromophenyl phenyl ether	MB	SEP052694	1	<10	10	ug/L
Butyl benzyl phthalate	MB	SEP052694	1	<10	10	ug/L
Carbazole	MB	SEP052694	1	<10	10	ug/L
4-Chloroaniline	MB	SEP052694	1	<10	10	ug/L
2-Chloronaphthalene	MB	SEP052694	1	<10	10	ug/L
4-Chlorophenyl phenyl ether	MB	SEP052694	1	<10	10	ug/L
Chrysene	MB	SEP052694	1	<10	10	ug/L
2-Methylphenol	MB	SEP052694	1	<10	10	ug/L
4-Methylphenol	MB	SEP052694	1	<10	10	ug/L
Dibenzo(a,h)anthracene	MB	SEP052694	1	<10	10	ug/L
Dibenzofuran	MB	SEP052694	1	<10	10	ug/L
Di-n-butyl phthalate	MB	SEP052694	1	<10	10	ug/L
1,2-Dichlorobenzene	MB	SEP052694	1	<10	10	ug/L
1,3-Dichlorobenzene	MB	SEP052694	1	<10	10	ug/L
3,3'-Dichlorobenzidine	MB	SEP052694	1	<10	10	ug/L
2,4-Dichlorophenol	MB	SEP052694	1	<10	10	ug/L
Diethyl phthalate	MB	SEP052694	1	<10	10	ug/L
2,4-Dimethylphenol	MB	SEP052694	1	<10	10	ug/L
Dimethyl phthalate	MB	SEP052694	1	<10	10	ug/L
2,4-Dinitrophenol	MB	SEP052694	1	<25	25	ug/L
2,6-Dinitrotoluene	MB	SEP052694	1	<10	10	ug/L
Di-n-octyl phthalate	MB	SEP052694	1	<10	10	ug/L
Fluoranthene	MB	SEP052694	1	<10	10	ug/L
Fluorene	MB	SEP052694	1	<10	10	ug/L

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WESTERN ATLAS

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QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Semi-volatile Organic Contaminants DATE ANALYZED: 06/07/94 TIME ANALYZED: 07:46 METHOD: SW-846/8270 QC NUMBER:978840

BLANKS

TEST DESCRIPTION	ANALY SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Hexachlorobenzene	MB	SEP052694	1	<10	10	ug/L
Hexachlorobutadiene	MB	SEP052694	1	<10	10	ug/L
Hexachlorocyclopentadiene	MB	SEP052694	1	<10	10	ug/L
Hexachloroethane	MB	SEP052694	1	<10	10	ug/L
Indenol(1,2,3-cd)pyrene	MB	SEP052694	1	<10	10	ug/L
Isophorone	MB	SEP052694	1	<10	10	ug/L
2-Methyl-4,6-dinitrophenol	MB	SEP052694	1	<25	25	ug/L
2-Methylnaphthalene	MB	SEP052694	1	<10	10	ug/L
Naphthalene	MB	SEP052694	1	<10	10	ug/L
2-Nitroaniline	MB	SEP052694	1	<25	25	ug/L
3-Nitroaniline	MB	SEP052694	1	<25	25	ug/L
4-Nitroaniline	MB	SEP052694	1	<25	25	ug/L
Nitrobenzene	MB	SEP052694	1	<10	10	ug/L
2-Nitrophenol	MB	SEP052694	1	<10	10	ug/L
N-Nitrosodiphenylamine	MB	SEP052694	1	<10	10	ug/L
Phenanthrene	MB	SEP052694	1	<10	10	ug/L
6-Trichlorophenol	MB	SEP052694	1	<10	10	ug/L
,5-Trichlorophenol	MB	SEP052694	1	<25	25	ug/L

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Semi-volatile Organic Contaminants DATE ANALYZED: 06/07/94 TIME ANALYZED: 07:46 METHOD: SW-846/8270 QC NUMBER:978840

REFERENCE STANDARDS

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	TRUE VALUE	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
2-Fluorophenol	SS	942349-004	1	110	200	55	10	ug/L
	SS	942349-005	1	49	200	24	10	ug/L
	SS	942349-006	1	61	200	30	10	ug/L
	SS	942349-007	1	89	200	44	10	ug/L
	SS	942349-009	1	55	200	28	10	ug/L
	SS	942349-012	1	73	200	36	10	ug/L
	SS	942349-013	1	83	200	42	10	ug/L
	SS	942349-014	1	90	200	45	10	ug/L
	SS	942379-001	1	46	200	23	10	ug/L
	SS	942379-002	1	45	200	22	10	ug/L
	SS	942379-003	1	89	200	44	10	ug/L
Phenol-d5	SS	942349-004	1	68	200	34	10	ug/L
	SS	942349-005	1	27	200	14	10	ug/L
	SS	942349-006	1	34	200	17	10	ug/L
	SS	942349-007	1	56	200	28	10	ug/L
	SS	942349-009	1	30	200	15	10	ug/L
	SS	942349-012	1	43	200	22	10	ug/L
	SS	942349-013	1	50	200	25	10	ug/L
	SS	942349-014	1	55	200	28	10	ug/L
	SS	942379-001	1	29	200	14	10	ug/L
	SS	942379-002	1	23	200	12	10	ug/L
	SS	942379-003	1	53	200	26	10	ug/L
Nitrobenzene-d5	SS	942349-004	1	82	100	82	10	ug/L
	SS	942349-005	1	39	100	39	10	ug/L
	SS	942349-006	1	46	100	46	10	ug/L
	SS	942349-007	1	70	100	70	10	ug/L
	SS	942349-009	1	47	100	47	10	ug/L
	SS	942349-012	1	57	100	57	10	ug/L
	SS	942349-013	1	67	100	67	10	ug/L
	SS	942349-014	1	69	100	69	10	ug/L
	SS	942379-001	1	39	100	39	10	ug/L
	SS	942379-002	1	35	100	35	10	ug/L
	SS	942379-003	1	68	100	68	10	ug/L
2-Fluorobiphenyl	SS	942349-004	1	85	100	85	10	ug/L
	SS	942349-005	1	39	100	39	10	ug/L
	SS	942349-006	1	51	100	51	10	ug/L
	SS	942349-007	1	73	100	73	10	ug/L
	SS	942349-009	1	48	100	48	10	ug/L
	SS	942349-012	1	58	100	58	10	ug/L
	SS	942349-013	1	69	100	69	10	ug/L
	SS	942349-014	1	73	100	73	10	ug/L
	SS	942379-001	1	38	100	38	10	ug/L
	SS	942379-002	1	31	100	31	10	ug/L
	SS	942379-003	1	63	100	63	10	ug/L
2,4,6-tribromophenol	SS	942349-004	1	154	200	77	10	ug/L

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QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Semi-volatile Organic Contaminants DATE ANALYZED: 06/07/94 TIME ANALYZED: 07:46 METHOD: SW-846/8270 QC NUMBER:978840

REFERENCE STANDARDS

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	TRUE VALUE	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
	SS	942349-005	1	68	200	34	10	ug/L
	SS	942349-006	1	86	200	43	10	ug/L
	SS	942349-007	1	139	200	70	10	ug/L
	SS	942349-009	1	79	200	40	10	ug/L
	SS	942349-012	1	108	200	54	10	ug/L
	SS	942349-013	1	122	200	61	10	ug/L
	SS	942349-014	1	132	200	66	10	ug/L
	SS	942379-001	1	74	200	37	10	ug/L
	SS	942379-002	1	57	200	28	10	ug/L
	SS	942379-003	1	113	200	56	10	ug/L
p-Terphenyl-d14	SS	942349-004	1	90	100	90	10	ug/L
	SS	942349-005	1	47	100	47	10	ug/L
	SS	942349-006	1	54	100	54	10	ug/L
	SS	942349-007	1	82	100	82	10	ug/L
	SS	942349-009	1	52	100	52	10	ug/L
	SS	942349-012	1	64	100	64	10	ug/L
	SS	942349-013	1	67	100	67	10	ug/L
	SS	942349-014	1	78	100	78	10	ug/L
	SS	942379-001	1	45	100	45	10	ug/L
	SS	942379-002	1	35	100	35	10	ug/L
	SS	942379-003	1	73	100	73	10	ug/L

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Semi-volatile Organic Contaminants DATE ANALYZED: 06/07/94 TIME ANALYZED: 07:46 METHOD: SW-846/8270 QC NUMBER:978840

MATRIX SPIKES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Phenol	MS	942439-001	1	39	0	100	39	10	ug/L
2-Chlorophenol	MS	942439-001	1	83	0	100	83	10	ug/L
1,4-Dichlorobenzene	MS	942439-001	1	64	0	100	64	10	ug/L
N-Nitrosodi-n-propylamine	MS	942439-001	1	83	0	100	83	10	ug/L
1,2,4-Trichlorobenzene	MS	942439-001	1	68	0	100	68	10	ug/L
4-Chloro-3-methylphenol	MS	942439-001	1	78	0	100	78	10	ug/L
Acenaphthene	MS	942439-001	1	79	0	100	79	10	ug/L
4-Nitrophenol	MS	942439-001	1	392	0	1000	39	25	ug/L
2,4-Dinitrotoluene	MS	942439-001	1	63	0	100	63	10	ug/L
Pentachlorophenol	MS	942439-001	1	59	0	100	59	25	ug/L
Pyrene	MS	942439-001	1	59	0	100	59	10	ug/L

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Semi-volatile Organic Contaminants DATE ANALYZED: 06/07/94 TIME ANALYZED: 07:46 METHOD: SW-846/8270 QC NUMBER:978840

DUPLICATES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (|A-B|)	DETECTION LIMITS	UNITS OF MEASURE
Phenol	SD	942439-001	1	<10	<10	NC	10	ug/L
2-Chlorophenol	SD	942439-001	1	<10	<10	NC	10	ug/L
1,4-Dichlorobenzene	SD	942439-001	1	<10	<10	NC	10	ug/L
N-Nitrosodi-n-propylamine	SD	942439-001	1	<10	<10	NC	10	ug/L
1,2,4-Trichlorobenzene	SD	942439-001	1	<10	<10	NC	10	ug/L
4-Chloro-3-methylphenol	SD	942439-001	1	<10	<10	NC	10	ug/L
Acenaphthene	SD	942439-001	1	<10	<10	NC	10	ug/L
4-Nitrophenol	SD	942439-001	1	<25	<25	NC	25	ug/L
2,4-Dinitrotoluene	SD	942439-001	1	<10	<10	NC	10	ug/L
Pentachlorophenol	SD	942439-001	1	<25	<25	NC	25	ug/L
Pyrene	SD	942439-001	1	<10	<10	NC	10	ug/L

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WESTERN ATLAS

Core Laboratories

QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Semi-volatile Organic Contaminants DATE ANALYZED: 06/07/94 TIME ANALYZED: 08:26 METHOD: SW-846/8270 QC NUMBER:978846

BLANKS

TEST DESCRIPTION	ANALY	SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Phenol	MB		SON052594	1	<10	10	ug/L
2-Chlorophenol	MB		SON052594	1	<10	10	ug/L
1,4-Dichlorobenzene	MB		SON052594	1	<10	10	ug/L
N-Nitrosodi-n-propylamine	MB		SON052594	1	<10	10	ug/L
1,2,4-Trichlorobenzene	MB		SON052594	1	<10	10	ug/L
4-Chloro-3-methylphenol	MB		SON052594	1	<10	10	ug/L
Acenaphthene	MB		SON052594	1	<10	10	ug/L
4-Nitrophenol	MB		SON052594	1	<25	25	ug/L
2,4-Dinitrotoluene	MB		SON052594	1	<10	10	ug/L
Pentachlorophenol	MB		SON052594	1	<25	25	ug/L
Pyrene	MB		SON052594	1	<10	10	ug/L
Acenaphthylene	MB		SON052594	1	<10	10	ug/L
Anthracene	MB		SON052594	1	<10	10	ug/L
Benzo(a)anthracene	MB		SON052594	1	<10	10	ug/L
Benzo(b)fluoranthene	MB		SON052594	1	<10	10	ug/L
Benzo(k)fluoranthene	MB		SON052594	1	<10	10	ug/L
Benzo(ghi)perylene	MB		SON052594	1	<10	10	ug/L
Benzo(a)pyrene	MB		SON052594	1	<10	10	ug/L
Bis(2-chloroethoxy)methane	MB		SON052594	1	<10	10	ug/L
Bis(2-chloroethyl)ether	MB		SON052594	1	<10	10	ug/L
Bis(2-chloroisopropyl)ether	MB		SON052594	1	<10	10	ug/L
Bis(2-ethylhexyl) phthalate	MB		SON052594	1	<10	10	ug/L
4-Bromophenyl phenyl ether	MB		SON052594	1	<10	10	ug/L
Butyl benzyl phthalate	MB		SON052594	1	<10	10	ug/L
Carbazole	MB		SON052594	1	<10	10	ug/L
4-Chloroaniline	MB		SON052594	1	<10	10	ug/L
2-Chloronaphthalene	MB		SON052594	1	<10	10	ug/L
4-Chlorophenyl phenyl ether	MB		SON052594	1	<10	10	ug/L
Chrysene	MB		SON052594	1	<10	10	ug/L
2-Methylphenol	MB		SON052594	1	<10	10	ug/L
4-Methylphenol	MB		SON052594	1	<10	10	ug/L
Dibenzo(a,h)anthracene	MB		SON052594	1	<10	10	ug/L
Dibenzofuran	MB		SON052594	1	<10	10	ug/L
Di-n-butyl phthalate	MB		SON052594	1	<10	10	ug/L
1,2-Dichlorobenzene	MB		SON052594	1	<10	10	ug/L
1,3-Dichlorobenzene	MB		SON052594	1	<10	10	ug/L
3,3'-Dichlorobenzidine	MB		SON052594	1	<10	10	ug/L
2,4-Dichlorophenol	MB		SON052594	1	<10	10	ug/L
Diethyl phthalate	MB		SON052594	1	<10	10	ug/L
2,4-Dimethylphenol	MB		SON052594	1	<10	10	ug/L
Dimethyl phthalate	MB		SON052594	1	<10	10	ug/L
2,4-Dinitrophenol	MB		SON052594	1	<25	25	ug/L
2,6-Dinitrotoluene	MB		SON052594	1	<10	10	ug/L
Di-n-octyl phthalate	MB		SON052594	1	<10	10	ug/L
Fluoranthene	MB		SON052594	1	<10	10	ug/L
Fluorene	MB		SON052594	1	<10	10	ug/L

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WESTERN ATLAS

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QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Semi-volatile Organic Contaminants DATE ANALYZED: 06/07/94 TIME ANALYZED: 08:26 METHOD: SW-846/8270 QC NUMBER:978846

BLANKS

TEST DESCRIPTION	ANALY SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Hexachlorobenzene	MB	SON052594	1	<10	10	ug/L
Hexachlorobutadiene	MB	SON052594	1	<10	10	ug/L
Hexachlorocyclopentadiene	MB	SON052594	1	<10	10	ug/L
Hexachloroethane	MB	SON052594	1	<10	10	ug/L
Indenol(1,2,3-cd)pyrene	MB	SON052594	1	<10	10	ug/L
Isophorone	MB	SON052594	1	<10	10	ug/L
2-Methyl-4,6-dinitrophenol	MB	SON052594	1	<25	25	ug/L
2-Methylnaphthalene	MB	SON052594	1	<10	10	ug/L
Naphthalene	MB	SON052594	1	<10	10	ug/L
2-Nitroaniline	MB	SON052594	1	<25	25	ug/L
3-Nitroaniline	MB	SON052594	1	<25	25	ug/L
4-Nitroaniline	MB	SON052594	1	<25	25	ug/L
Nitrobenzene	MB	SON052594	1	<10	10	ug/L
2-Nitrophenol	MB	SON052594	1	<10	10	ug/L
N-Nitrosodiphenylamine	MB	SON052594	1	<10	10	ug/L
enanthrene	MB	SON052594	1	<10	10	ug/L
,6-Trichlorophenol	MB	SON052594	1	<10	10	ug/L
,5-Trichlorophenol	MB	SON052594	1	<25	25	ug/L

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Semi-volatile Organic Contaminants DATE ANALYZED: 06/07/94 TIME ANALYZED: 08:26 METHOD: SW-846/8270 QC NUMBER:978846

REFERENCE STANDARDS

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	TRUE VALUE	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
2-Fluorophenol	SS	942349-001	1	159	200	80	10	ug/L
	SS	942349-002	1	144	200	72	10	ug/L
Phenol-d5	SS	942349-001	1	145	200	72	10	ug/L
	SS	942349-002	1	144	200	72	10	ug/L
Nitrobenzene-d5	SS	942349-001	1	109	100	109	10	ug/L
	SS	942349-002	1	73	100	73	10	ug/L
2-Fluorobiphenyl	SS	942349-001	1	85	100	85	10	ug/L
	SS	942349-002	1	91	100	91	10	ug/L
2,4,6-tribromophenol	SS	942349-001	1	138	200	69	10	ug/L
	SS	942349-002	1	160	200	80	10	ug/L
p-Terphenyl-d14	SS	942349-001	1	59	100	59	10	ug/L
	SS	942349-002	1	106	100	106	10	ug/L

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QUALITY CONTROL REPORT
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JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Semi-volatile Organic Contaminants DATE ANALYZED: 06/07/94 TIME ANALYZED: 08:26 METHOD: SW-846/8270 QC NUMBER:978846

MATRIX SPIKES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Phenol	MS	942384-019	1	68	0	100	68	10	ug/L
2-Chlorophenol	MS	942384-019	1	68	0	100	68	10	ug/L
1,4-Dichlorobenzene	MS	942384-019	1	59	0	100	59	10	ug/L
N-Nitrosodi-n-propylamine	MS	942384-019	1	64	0	100	64	10	ug/L
1,2,4-Trichlorobenzene	MS	942384-019	1	61	0	100	61	10	ug/L
4-Chloro-3-methylphenol	MS	942384-019	1	59	0	100	59	10	ug/L
Acenaphthene	MS	942384-019	1	63	0	100	63	10	ug/L
4-Nitrophenol	MS	942384-019	1	59	0	100	59	25	ug/L
2,4-Dinitrotoluene	MS	942384-019	1	55	0	100	55	10	ug/L
Pentachlorophenol	MS	942384-019	1	343	0	1000	34	25	ug/L
Pyrene	MS	942384-019	1	60	0	100	60	10	ug/L

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Semi-volatile Organic Contaminants DATE ANALYZED: 06/07/94 TIME ANALYZED: 08:26 METHOD: SW-846/8270 QC NUMBER:978846

DUPLICATES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (|A-B|)	DETECTION LIMITS	UNITS OF MEASURE
Phenol	SD	942384-019	1	<10	<10	NC	10	ug/L
2-Chlorophenol	SD	942384-019	1	<10	<10	NC	10	ug/L
1,4-Dichlorobenzene	SD	942384-019	1	<10	<10	NC	10	ug/L
N-Nitrosodi-n-propylamine	SD	942384-019	1	<10	<10	NC	10	ug/L
1,2,4-Trichlorobenzene	SD	942384-019	1	<10	<10	NC	10	ug/L
4-Chloro-3-methylphenol	SD	942384-019	1	<10	<10	NC	10	ug/L
Acenaphthene	SD	942384-019	1	<10	<10	NC	10	ug/L
4-Nitrophenol	SD	942384-019	1	<25	<25	NC	25	ug/L
2,4-Dinitrotoluene	SD	942384-019	1	<10	<10	NC	10	ug/L
Pentachlorophenol	SD	942384-019	1	<25	<25	NC	25	ug/L
Pyrene	SD	942384-019	1	<10	<10	NC	10	ug/L

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QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Volatile Organic Contaminants DATE ANALYZED: 05/25/94 TIME ANALYZED: 08:41 METHOD: SW-846/8240 QC NUMBER:978852

BLANKS

TEST DESCRIPTION	ANALY SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Benzene	IB	GCMS052594	1	<10	10	ug/L
1,1-Dichloroethene	IB	GCMS052594	1	<10	10	ug/L
Trichloroethene	IB	GCMS052594	1	<10	10	ug/L
Toluene	IB	GCMS052594	1	<10	10	ug/L
Chlorobenzene	IB	GCMS052594	1	<10	10	ug/L
Acetone	IB	GCMS052594	1	<10	10	ug/L
Bromodichloromethane	IB	GCMS052594	1	<10	10	ug/L
Bromoform	IB	GCMS052594	1	<10	10	ug/L
Bromomethane	IB	GCMS052594	1	<10	10	ug/L
2-Butanone (MEK)	IB	GCMS052594	1	<10	10	ug/L
Carbon disulfide	IB	GCMS052594	1	<10	10	ug/L
Carbon tetrachloride	IB	GCMS052594	1	<10	10	ug/L
Chloroethane	IB	GCMS052594	1	<10	10	ug/L
Chloroform	IB	GCMS052594	1	<10	10	ug/L
Chloromethane	IB	GCMS052594	1	<10	10	ug/L
Dibromochloromethane	IB	GCMS052594	1	<10	10	ug/L
-Dichloroethane	IB	GCMS052594	1	<10	10	ug/L
-Dichloroethane	IB	GCMS052594	1	<10	10	ug/L
1,2-Dichloroethene (Total)	IB	GCMS052594	1	<10	10	ug/L
1,2-Dichloropropane	IB	GCMS052594	1	<10	10	ug/L
cis-1,3-Dichloropropene	IB	GCMS052594	1	<10	10	ug/L
trans-1,3-Dichloropropene	IB	GCMS052594	1	<10	10	ug/L
Ethylbenzene	IB	GCMS052594	1	<10	10	ug/L
2-Hexanone	IB	GCMS052594	1	<10	10	ug/L
Methylene chloride	IB	GCMS052594	1	<10	10	ug/L
4-Methyl-2-pentanone	IB	GCMS052594	1	<10	10	ug/L
Styrene	IB	GCMS052594	1	<10	10	ug/L
1,1,2,2-Tetrachloroethane	IB	GCMS052594	1	<10	10	ug/L
Tetrachloroethene	IB	GCMS052594	1	<10	10	ug/L
1,1,1-Trichloroethane	IB	GCMS052594	1	<10	10	ug/L
1,1,2-Trichloroethane	IB	GCMS052594	1	<10	10	ug/L
Total Xylenes	IB	GCMS052594	1	<10	10	ug/L
Vinyl chloride	IB	GCMS052594	1	<10	10	ug/L

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QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Volatile Organic Contaminants DATE ANALYZED: 05/25/94 TIME ANALYZED: 08:41 METHOD: SW-846/8240 QC NUMBER:978852

REFERENCE STANDARDS

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	TRUE VALUE	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
1,2-Dichloroethane-d4	SS	942349-04	1	44	50	88	10	ug/L
	SS	942349-05	1	43	50	86	10	ug/L
	SS	942349-06	1	43	50	86	10	ug/L
	SS	942349-07	1	42	50	84	10	ug/L
	SS	942349-08	1	42	50	84	10	ug/L
	SS	942349-09	1	43	50	86	10	ug/L
	SS	942349-10	1	43	50	86	10	ug/L
	SS	942349-11	1	43	50	86	10	ug/L
	SS	942349-12	1	44	50	88	10	ug/L
	SS	942349-13	1	44	50	88	10	ug/L
	SS	942349-14	1	44	50	88	10	ug/L
Toluene-d8	SS	942349-04	1	51	50	102	10	ug/L
	SS	942439-05	1	51	50	102	10	ug/L
	SS	942439-06	1	51	50	102	10	ug/L
	SS	942439-07	1	52	50	104	10	ug/L
	SS	942439-08	1	52	50	104	10	ug/L
	SS	942349-09	1	50	50	100	10	ug/L
	SS	942349-10	1	51	50	102	10	ug/L
	SS	942349-11	1	51	50	102	10	ug/L
	SS	942349-12	1	51	50	102	10	ug/L
	SS	942349-13	1	52	50	104	10	ug/L
	SS	942349-14	1	51	50	102	10	ug/L
Bromofluorobenzene	SS	942349-04	1	45	50	90	10	ug/L
	SS	942349-05	1	45	50	90	10	ug/L
	SS	942439-06	1	43	50	86	10	ug/L
	SS	942439-07	1	45	50	90	10	ug/L
	SS	942439-08	1	45	50	90	10	ug/L
	SS	942349-09	1	45	50	90	10	ug/L
	SS	942349-10	1	44	50	88	10	ug/L
	SS	942349-11	1	44	50	88	10	ug/L
	SS	942349-12	1	45	50	90	10	ug/L
	SS	942349-13	1	44	50	88	10	ug/L
	SS	942349-14	1	45	50	90	10	ug/L

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QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Volatile Organic Contaminants DATE ANALYZED: 05/25/94 TIME ANALYZED: 08:41 METHOD: SW-846/8240 QC NUMBER:978852

MATRIX SPIKES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Benzene	MS	942630-01	1	50	0	50	100	10	ug/L
1,1-Dichloroethene	MS	942630-01	1	42	0	50	84	10	ug/L
Trichloroethene	MS	942630-01	1	49	0	50	98	10	ug/L
Toluene	MS	942630-01	1	48	0	50	96	10	ug/L
Chlorobenzene	MS	942630-01	1	51	0	50	102	10	ug/L

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Volatile Organic Contaminants DATE ANALYZED: 05/25/94 TIME ANALYZED: 08:41 METHOD: SW-846/8240 QC NUMBER:978852

DUPLICATES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (|A-B|)	DETECTION LIMITS	UNITS OF MEASURE
Benzene	MSD	942630-01	1	50	51	1	10	ug/L
1,1-Dichloroethene	MSD	942630-01	1	42	45	3	10	ug/L
Trichloroethene	MSD	942630-01	1	49	49	0	10	ug/L
Toluene	MSD	942630-01	1	48	49	1	10	ug/L
Chlorobenzene	MSD	942630-01	1	51	51	0	10	ug/L

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009005

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ist judgment of Core Laboratories. Core Laboratories, however, assumes no responsibility and makes no warranty or representations, express or implied, as to the productivity, proper operations, or profitableness of any oil, gas, coal or
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9005

WESTERN ATLAS

Core Laboratories

QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Volatile Organic Contaminants DATE ANALYZED: 06/01/94 TIME ANALYZED: 08:57 METHOD: SW-846/8240 QC NUMBER:978952

BLANKS

TEST DESCRIPTION	ANALY SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Benzene	IB	GCMS060294	1	<10	10	ug/L
	IB	GCMS061394	1	<10	10	ug/L
1,1-Dichloroethene	IB	GCMS060294	1	<10	10	ug/L
	IB	GCMS061394	1	<10	10	ug/L
Trichloroethene	IB	GCMS060294	1	<10	10	ug/L
	IB	GCMS061394	1	<10	10	ug/L
Toluene	IB	GCMS060294	1	<10	10	ug/L
	IB	GCMS061394	1	<10	10	ug/L
Chlorobenzene	IB	GCMS060294	1	<10	10	ug/L
	IB	GCMS061394	1	<10	10	ug/L
Acetone	IB	GCMS060294	1	<10	10	ug/L
	IB	GCMS061394	1	<10	10	ug/L
Bromodichloromethane	IB	GCMS060294	1	<10	10	ug/L
	IB	GCMS061394	1	<10	10	ug/L
Bromoform	IB	GCMS060294	1	<10	10	ug/L
	IB	GCMS061394	1	<10	10	ug/L
nomethane	IB	GCMS060294	1	<10	10	ug/L
	IB	GCMS061394	1	<10	10	ug/L
2-Butanone (MEK)	IB	GCMS060294	1	<10	10	ug/L
	IB	GCMS061394	1	<10	10	ug/L
Carbon disulfide	IB	GCMS060294	1	<10	10	ug/L
	IB	GCMS061394	1	<10	10	ug/L
Carbon tetrachloride	IB	GCMS060294	1	<10	10	ug/L
	IB	GCMS061394	1	<10	10	ug/L
Chloroethane	IB	GCMS060294	1	<10	10	ug/L
	IB	GCMS061394	1	<10	10	ug/L
Chloroform	IB	GCMS060294	1	<10	10	ug/L
	IB	GCMS061394	1	<10	10	ug/L
Chloromethane	IB	GCMS060294	1	<10	10	ug/L
	IB	GCMS061394	1	<10	10	ug/L
Dibromochloromethane	IB	GCMS060294	1	<10	10	ug/L
	IB	GCMS061394	1	<10	10	ug/L
1,1-Dichloroethane	IB	GCMS060294	1	<10	10	ug/L
	IB	GCMS061394	1	<10	10	ug/L
1,2-Dichloroethane	IB	GCMS060294	1	<10	10	ug/L
	IB	GCMS061394	1	<10	10	ug/L
1,2-Dichloroethene (Total)	IB	GCMS060294	1	<10	10	ug/L
	IB	GCMS061394	1	<10	10	ug/L
1,2-Dichloropropane	IB	GCMS060294	1	<10	10	ug/L
	IB	GCMS061394	1	<10	10	ug/L
cis-1,3-Dichloropropene	IB	GCMS060294	1	<10	10	ug/L
	IB	GCMS061494	1	<10	10	ug/L
trans-1,3-Dichloropropene	IB	GCMS060294	1	<10	10	ug/L
	IB	GCMS061394	1	<10	10	ug/L
Ethylbenzene	IB	GCMS060294	1	<10	10	ug/L
	IB	GCMS061394	1	<10	10	ug/L

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9006

WESTERN ATLAS

Core Laboratories

QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Volatile Organic Contaminants DATE ANALYZED: 06/01/94 TIME ANALYZED: 08:57 METHOD: SW-846/8240 QC NUMBER:978952

BLANKS

TEST DESCRIPTION	ANALY SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
2-Hexanone	IB	GCMS060294	1	<10	10	ug/L
	IB	GCMS061394	1	<10	10	ug/L
Methylene chloride	IB	GCMS060294	1	<10	10	ug/L
	IB	GCMS061394	1	<10	10	ug/L
4-Methyl-2-pentanone	IB	GCMS060294	1	<10	10	ug/L
	IB	GCMS061394	1	<10	10	ug/L
Styrene	IB	GCMS060294	1	<10	10	ug/L
	IB	GCMS061394	1	<10	10	ug/L
1,1,2,2-Tetrachloroethane	IB	GCMS060294	1	<10	10	ug/L
	IB	GCMS061394	1	<10	10	ug/L
Tetrachloroethene	IB	GCMS060294	1	<10	10	ug/L
	IB	GCMS061394	1	<10	10	ug/L
1,1,1-Trichloroethane	IB	GCMS060294	1	<10	10	ug/L
	IB	GCMS061394	1	<10	10	ug/L
1,1,2-Trichloroethane	IB	GCMS060294	1	<10	10	ug/L
	IB	GCMS061394	1	<10	10	ug/L
al Xylenes	IB	GCMS060294	1	<10	10	ug/L
	IB	GCMS061394	1	<10	10	ug/L
Vinyl chloride	IB	GCMS060294	1	<10	10	ug/L
	IB	GCMS061394	1	<10	10	ug/L

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9007

WESTERN ATLAS

Core Laboratories

QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Volatile Organic Contaminants DATE ANALYZED: 06/01/94 TIME ANALYZED: 08:57 METHOD: SW-846/8240 QC NUMBER:978952

REFERENCE STANDARDS

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	TRUE VALUE	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
1,2-Dichloroethane-d4	SS	942349-01	1	53	50	106	10	ug/L
	SS	942349-02	1	55	50	110	10	ug/L
	SS	942349-03	1	49	50	98	10	ug/L
Toluene-d8	SS	942349-01	1	50	50	100	10	ug/L
	SS	942349-02	1	65	50	130	10	ug/L
	SS	942349-03	1	58	50	116	10	ug/L
Bromofluorobenzene	SS	942349-01	1	48	50	96	10	ug/L
	SS	942349-02	1	48	50	96	10	ug/L
	SS	942349-03	1	33	50	66	10	ug/L

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9008

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QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Volatile Organic Contaminants DATE ANALYZED: 06/01/94 TIME ANALYZED: 08:57 METHOD: SW-846/8240 QC NUMBER:978952

MATRIX SPIKES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Benzene	MS	942459-04	1	48	0	50	96	10	ug/L
1,1-Dichloroethene	MS	942459-04	1	41	0	50	82	10	ug/L
Trichloroethene	MS	942459-04	1	49	0	50	98	10	ug/L
Toluene	MS	942459-04	1	48	0	50	96	10	ug/L
Chlorobenzene	MS	942459-04	1	48	0	50	96	10	ug/L

0060

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9009

WESTERN ATLAS

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QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942349 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Volatile Organic Contaminants DATE ANALYZED: 06/01/94 TIME ANALYZED: 08:57 METHOD: SW-846/8240 QC NUMBER:978952

DUPLICATES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (|A-B|)	DETECTION LIMITS	UNITS OF MEASURE
Benzene	MSD	942459-04	1	48	46	2	10	ug/L
1,1-Dichloroethene	MSD	942459-04	1	41	39	2	10	ug/L
Trichloroethene	MSD	942459-04	1	49	47	2	10	ug/L
Toluene	MSD	942459-04	1	48	46	2	10	ug/L
Chlorobenzene	MSD	942459-04	1	48	47	1	10	ug/L

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9010

WESTERN ATLAS

Core Laboratories

QUALITY ASSURANCE FOOTER
REPORT DATE

ND = Analyte Not Detected above the quantitation limit

The detection limit and units reported in the Quality Assurance (QA) Report may not coincide with the values reported in the Analytical Report because the data presented in the QA Report may not account for sample preparation and dilutions performed.

The date and time analyzed on the Quality Assurance Report may not reflect the actual date and/or time of analysis.

Results for soil samples are reported on a wet weight basis (unless otherwise indicated).

Cited Methods are obtained from the following documents:
- EPA 600/4-79-020, Methods for Chemical Analysis of Water and Wastes, March 1983
- Standard Methods for the Chemical Analysis of Water and Wastewater, 18th Edition, 1992
- U.S. EPA Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, Third Edition, 1986 & 1992 update
- Standard Methods for the Examination of Water and Wastewater, 14th Edition, 1976 & 15th Edition, 1981

Numerical values expressed in the "LIMITS/*DILUTION" column are Method Quantitation Limits (MQL). A final result of "ND" should be considered as "less than the MQL" (<MQL) unless it is noted otherwise.

009011

SUBCONTRACTED LABORATORY LOCATIONS

For analysis performed by a subcontract laboratory, an "*" and the designated laboratory code is indicated in the "TECHN" column of the laboratory test results report.

Core Laboratories:		Other Laboratories:	
Anaheim	* A N	Saybolt	* 0 1
Aurora	* A U	Caleb Brett	* 0 2
Carrollton	* C R	Maxim	* 0 3
Casper	* C A	Southwestern Labs	* 0 4
Corpus Christi	* C C	Analytichem	* 0 5
Hollister	* H R	Other	* 0 0
Houston	* H P		
Long Beach	* L B		
New Orleans	* N O		

QUALITY ASSURANCE REPORT CODES

NC = Not Calculable due to values lower than the reporting limit

BLANKS	REFERENCE STANDARDS	SPIKES	DUPLICATES
MB = Method Blank	CS = Calibration Standard	MS = Matrix Spike	MSD = Matrix Spike Duplicate
RB = Reagent Blank	RS = Reference Standard	PDS = Post-Digest Spike	SD = Sample Duplicate
IB = Instrument Blan	ICV = Initial Calib. Verification	BS = Blank Spike	MD = Method Duplicate
ICB = Initial Calib. Blank	CCV = Continuing Calib. Verification	SS = Surrogate Spike	
CCB = Continuing Calib. Blank	LCS = Laboratory Control Standard		

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9011

WESTERN ATLAS

CORE LABORATORIES

210600

NO. 00695

CHAIN OF CUSTODY RECORD (1)

CUSTOMER INFORMATION

COMPANY: Jones & Neuse

SEND REPORT TO: Mike Whitehead

ADDRESS: 12653 N. Central Exp., Su 323, Dallas TX 75243

PHONE: 990-8676

FAX:

PROJECT INFORMATION

PROJECT NAME/NUMBER: 153503.03

BILLING INFORMATION

BILL TO:

ADDRESS: Same

PHONE:

FAX: PO NO.:

LAB JOB NO. 942349 ~~942340~~ 6/23/94

SAMPLE NO	SAMPLE ID	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE	PRES.	NUMBER OF CONTAINERS	TAL (total)	TCL	Grain size + TOC						REMARKS / PRECAUTIONS
1	RI-SB-21-01-52	5/18/94	8:45	Soil	8 oz	No	2	✓		✓						2-4'
2	RI-SB-21-02-53	"	8:45	"	"	"	1	✓								4-5'
3	RI-SB-21-03-54	"	8:50	"	"	"	2	✓	✓							12-14'
4	RI-SB-21-04-55	"	8:55	"	"	"	1	✓								18-20'
5	RI-SB-22-01-56	"	0940	"	"	"	1	✓								2-4'
6	RI-SB-22-02-57	"	945	"	"	"	2	✓	✓							12-14'
7	RI-SB-22-03-58	"	950	"	"	"	3	✓	✓	✓						~~22'~~ → 12-14' (corrected from field not.)
8	RI-SW-03-59	"	1200	water	1 liter	HNO_3	2	✓								total & dissolved
9	RI-SD-03-60	"	1205	sed.	8 oz	No	1	✓								0 to 6"
10	RI-SD-03-61	"	1210	sed.	"	No	1	✓								6 to 12"

SAMPLER: Mike Whitehead, Tim Vickery

SHIPMENT METHOD:

AIRBILL NO.:

REQUIRED TURNAROUND:* [ ] SAME DAY [ ] 24 HOURS [ ] 48 HOURS [ ] 72 HOURS [ ] 5 DAYS [ ] 10 DAYS [ ] ROUTINE [X] OTHER See Ed York

RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Mike Whitehead	5/19/94	SIGNATURE: Federal Express		SIGNATURE:	
PRINTED NAME/COMPANY: Mike Whitehead / JN	TIME 13:20	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
RECEIVED BY:	**DATE**	**2. RECEIVED BY:**	**DATE**	**3. RECEIVED BY:**	**DATE**
SIGNATURE: Terri Brown	5/19/94	SIGNATURE: Jessica Monfore	5/23/94	SIGNATURE:	
PRINTED NAME/COMPANY: Terri Brown / CoreLab	TIME 13:20	PRINTED NAME/COMPANY: Jessica Monfore	TIME ~~1200~~ 0800 6/23/94	PRINTED NAME/COMPANY:	TIME

* RUSH TURNAROUND MAY REQUIRE SURCHARGE

[ ] Anaheim, California — 1250 E. Gene Autry Way, Anaheim, California 92805, (714) 937-1094, (800) 4

[ ] Long Beach, California — 3700 Cherry Avenue, Long Beach, California 90807, (310) 595-8401, (800) 814-3433

[ ] Denver (Aurora), Colorado — 10703 E. Bethany Drive, Aurora, Colorado 80014, (303) 751-1780, (800) 972-2673

[ ] Casper, Wyoming — 420 West 1st Street, Casper, Wyoming 82601, (30[illegible] 5741, (8[illegible] 3603

[ ] Houston, Texas — 8210 Mosely Road, Houston, Texas 77075, (713) 943-9776, (800) 734-2673

[ ] Corpus Christi, Texas — 1733 North Padre Island Drive, Corpus Christi, Texas 78408, (512) 289-2673, (800) 548-8228

[ ] Lake Charles, Louisiana — 3645 Beglis Parkway, Sulphur, Louisiana 70663, 583-4926, 259-4926

ORIGINAL

009012

6477

WESTERN ATLAS

CORE LABORATORIES

210600

CHAIN OF CUSTODY RECORD

2

CUSTOMER INFORMATION		PROJECT INFORMATION	
COMPANY	Jones & Neuse	PROJECT NAME/NUMBER:	153503.03
SEND REPORT TO	2655 N Central Exp. Ste 323	BILLING INFORMATION	
ADDRESS	Dallas TX 75243	BILL TO:	
		ADDRESS:	Same
	Michael Whitehead		
PHONE	490-8696	PHONE:	
FAX	490-8995	FAX:	PO NO.:

LAB JOB NO. 942349 ~~942340~~ 942349

SAMPLE NO.	SAMPLE ID	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE	PRES.	NUMBER OF CONTAINERS	TAL	TCL	TSS	TDS					REMARKS / PRECAUTIONS
11	~~RI-SW-04-62~~	5/18/94		Water	Water	Yes		✓	✓	✓						—
12	~~RI-SD-04-63~~ No sample	"		~~Soil~~	~~8oz~~	~~No~~		✓	✓							~~0-6"~~ MW
13	~~RI-SD-04-64~~	"		~~Soil~~	~~8oz~~	~~No~~		✓								~~6-12"~~
14	RI-MW-05-65	5/19/94	0950	Water	Misc	Yes	6	✓	✓		✓					MW-05
15	RI-MW-07-66	5/19/94	1040	Water	Misc.	Yes	6	✓	✓		✓					MW-07
16	RI-MW-08-67	5/19/94	1150	~~Water~~ MW	Misc	Yes	6	✓	✓		✓					MW-08
17																
18																
19																
20																

SAMPLER: Mike Whitehead.

SHIPMENT METHOD:

AIRBILL NO.:

REQUIRED TURNAROUND: [ ] SAME DAY [ ] 24 HOURS [ ] 48 HOURS [ ] 72 HOURS [ ] 5 DAYS [ ] 10 DAYS [ ] ROUTINE [X] OTHER See Ed York

RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Mike Whitehead	5/19/94	SIGNATURE: Federal Express		SIGNATURE:	
PRINTED NAME/COMPANY: Mike Whitehead / JN	TIME: 13:20	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE: Terri Brown	5/19/94	SIGNATURE: Jessica Morfore	5/23/94	SIGNATURE:	
PRINTED NAME/COMPANY: Terri Brown Corelab	TIME: 13:20	PRINTED NAME/COMPANY: Jessica Morfore Core	TIME: ~~1:20pm~~ 0800 5/23/94	PRINTED NAME/COMPANY:	TIME

RUSH TURNAROUND MAY REQUIRE SURCHARGE

[ ] Anaheim, California, 1250 E. Gene Autry Way, California 92805, (310) 1094

[ ] Long Beach, California, 3700 Cherry Avenue, Long Beach, California 90807, (310) 595 8401, (800) 814 3433

[ ] Denver (Aurora), Colorado, 10703 E. Bethany Drive, Aurora, Colorado 80014, (303) 751 1780, (800) 972 2673

[ ] Casper, Wyoming, 420 West 1st Street, Casper, Wyoming 82601, (307) 235 5741, 3603

[ ] Houston, Texas, 8210 Mosely Road, Houston, Texas 77075, (713) 943 9776, (800) 734 2673

[ ] Corpus Christi, Texas, 1733 North Padre Island Drive, Corpus Christi, Texas 78408, (512) 289 2673, (800) 548 8228

[ ] Lake Charles, Louisiana, 3645 Beglis Parkway, Sulphur, Louisiana 70663, (318) 583 4926, 259 4926

009013

6478

ORIGINAL

WESTERN ATLAS

CORE LABORATORIES

CHAIN OF CUSTODY RECORD (1)

009014

CUSTOMER INFORMATION	PROJECT INFORMATION
Jones & Neuse	PROJECT NAME/NUMBER:
REPORT TO: Mike Whitehead	BILLING INFORMATION
12655 W. Central Exp	BILL TO:
Suite 323	ADDRESS:
Dallas TX 75243	
490-8696	PHONE: same
	FAX: PO NO.:

LAB JOB NO. ~~94233149~~ 5/23/94 ~~94234~~ 5/23/94

SAMPLE NO.	SAMPLE ID	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE	PRES.	NUMBER OF CONTAINERS	TCL	TAL	TDS & Alkalinity	TSS & Alkalinity					REMARKS / PRECAUTIONS
1	RI-MW-06-68	5/19/94	14:35	Water	Misc	yes	7	✓	✓	✓						MW-06
2	RI-MW-11-69	"	1500	Water	Misc	yes	2	✓		VOA only						MW-11
3	RI-MW-09-70	"	1520	Water	Misc	yes	6	✓	✓	✓						MW-09
4	RI-TB-02-71	"	1520	Water	VOA	~~yes~~ No	2	✓		VOA only						Trip Blank
5	RI-EQ-02-72	"	1525	Water	VOA	No	2	✓	✓	VOA only						Equipment blank
6	RI-MW-10-73	"	1710	Water	Misc	yes	7	✓	✓	✓						MW-10
7	RI-SW-04-74	5/20/94	0825	Water	Misc.	yes		✓	✓	✓						West Lagoon
	RI-SD-04-75	"		Soil	Misc.	~~yes~~ No										0 to 6"
	RI-SD-04-76	"		Soil	Misc	No										6 to 12"
	RI-MW-01-77	"	9:10	Water	Misc	yes	7	✓	✓	✓						MW-01

SAMPLED BY: Mike Whitehead

SHIPMENT METHOD:

AIRBILL NO.:

TURNAROUND: ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☒ OTHER See Ed York.

RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Mike Whitehead	5/23/94	SIGNATURE: Federal Express		SIGNATURE:	
NAME/COMPANY: Mike Whitehead / JN	TIME 11:00	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
RECEIVED BY:	**DATE**	**2. RECEIVED BY:**	**DATE**	**3. RECEIVED BY:**	**DATE**
SIGNATURE: C. Ed York	5-20-94	SIGNATURE: Jessica Monfore	5/23/94	SIGNATURE:	
NAME/COMPANY: Core	TIME 11:21	PRINTED NAME/COMPANY: Jessica Monfore Core	TIME 0800 ~~7200~~ 5/23/94	PRINTED NAME/COMPANY:	TIME

TURNAROUND MAY REQUIRE SURCHARGE

Anaheim, California
1250 E. Gene Autry Way
Anaheim, California 92805

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3700 Cherry Avenue
Long Beach, California 90807
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(303) 751-1780
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Casper, Wyoming 82601
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(800) 666-[illegible]

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(512) 289-2673
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3645 Beglis Parkway
Sulphur, Louisiana 70663
(318) 583-4926
(800) 25[illegible]

009014

6479

[GC/MS OPERATIONS GROUP]

[GC/MS LAB SEMIVOLATILES]

[INTERNAL STANDARD CHECK REPORT]

942349-01

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SAMPLE FILE = >A4492
CAL CHECK FILE = >SK455
DATE AND TIME OF ANALYSIS = 6/07/94 16:54
MISCELLANEOUS = 05 25 94 SOIL 30g:10mls
METHOD = BNAMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER GRP

I. Areas

Name of the BNA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
1,4-Dichlorobenz-d4	28241	34692	17346	69384	OK
Naphthalene-d8	119256	155766	77883	311532	OK
Acenaphthene-d10	109921	129216	64608	258432	OK
Phenanthrene-d10	250472	284132	142066	568264	OK
Chrysene-d12	232209	418165	209082	836330	OK
Perylene-d12	374077	493163	246581	986326	OK

II. Retention Times

Name of the BNA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
1,4-Dichlorobenz-d4	8.14	8.12	7.62	8.62	OK
Naphthalene-d8	11.59	11.59	11.09	12.09	OK
Acenaphthene-d10	16.44	16.42	15.92	16.92	OK
Phenanthrene-d10	20.45	20.41	19.91	20.91	OK
Chrysene-d12	27.83	27.73	27.23	28.23	OK
Perylene-d12	31.52	31.38	30.88	31.88	OK

[GC/MS OPERATOR REPORT]

[GC/MS LAB VOLATILES]

[INTERNAL STANDARD CHECK REPORT]

942349-1

DM

SAMPLE FILE = >B0885
CAL CHECK FILE = >BC068
DATE AND TIME OF ANALYSIS = 6/01/94 17:42
MISCELLANEOUS = (VTCL) 5.0g Purge
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

I. Areas

Name of the VOA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision	
Bromochlorobenzene	5476	25235	12618	50470	BAD	*
1,4-Difluorobenzene	23431	108922	54461	217844	BAD	*
Chlorobenzene-d5	13905	84051	42025	168102	BAD	*

II. Retention Times

Name of the VOA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
Bromochloromethane	8.32	8.16	7.66	8.66	OK
1,4-Difluorobenzene	10.51	10.38	9.88	10.88	OK
Chlorobenzene-d5	18.53	18.47	17.97	18.97	OK

* Soil matrix interfered with internal standards
See reanalysis (File > B0945)
DM

009016

[GC/MS OPERATOR REPORT]

[GC/MS LAB VOLATILES]

[INTERNAL STANDARD CHECK REPORT]

942349-01 reanalysis

SAMPLE FILE = >V0945
CAL CHECK FILE = >VK930
DATE AND TIME OF ANALYSIS = 6/02/94 13:18
MISCELLANEOUS = (VTCL) 5.0g PURGE
METHOD = VOAMS1
INSTRUMENT = VOA I
OPERATOR = CORE1 SUPER GRP

I. Areas

Name of the VOA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
Bromochlorobenzene	4499	17630	8815	35260	BAD *
1,4-Difluorobenzene	16072	74154	37077	148308	BAD *
Chlorobenzene-d5	6021	59593	29796	119186	BAD *

II. Retention Times

Name of the VOA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
Bromochloromethane	5.40	5.40	4.90	5.90	OK
1,4-Difluorobenzene	7.56	7.56	7.06	8.06	OK
Chlorobenzene-d5	13.33	13.32	12.82	13.82	OK

* Soil matrix interfered with internal standards. See reanalysis (File > B1025), which is also a medium-level extraction to get target analytes within calibration range.

[GC/MS OPERATOR REPORT]

[GC/MS LAB VOLATILES]

[INTERNAL STANDARD CHECK REPORT]

942349-01
Reanalysis

SAMPLE FILE = >B1025
CAL CHECK FILE = >BC079
DATE AND TIME OF ANALYSIS = 6/13/94 19:08
MISCELLANEOUS = (BTCL) 5.0g:10mls: 100ul PURGE
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

I. Areas

Name of the VOA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
Bromochlorobenzene	27685	35315	17658	70630	OK
1,4-Difluorobenzene	110638	135636	67818	271272	OK
Chlorobenzene-d5	88754	103901	51950	207802	OK

II. Retention Times

Name of the VOA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
Bromochloromethane	8.28	8.27	7.77	8.77	OK
1,4-Difluorobenzene	10.48	10.49	9.99	10.99	OK
Chlorobenzene-d5	18.53	18.53	18.03	19.03	OK

[GC/MS OPERATOR REPORT]

[GC/MS LAB SEMIVOLATILES]

942349-02

[INTERNAL STANDARD CHECK REPORT]

SAMPLE FILE = 04493
CAL CHECK FILE = SK455
DATE AND TIME OF ANALYSIS = 6/07/94 17:38
MISCELLANEOUS = 05 25 94 SOIL 30g:5mls
METHOD = BNAMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER GRP

I. Areas

Name of the BNA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
1,4-Dichlorobenz-d4	29966	34692	17346	69384	OK
Naphthalene-d8	128121	155766	77883	311532	OK
Acenaphthene-d10	115809	129216	64608	258432	OK
Phenanthrene-d10	246713	284132	142066	568264	OK
Chrysene-d12	312147	418165	209082	836330	OK
Perylene-d12	417500	493163	246581	986326	OK

II. Retention Times

Name of the BNA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
1,4-Dichlorobenz-d4	8.12	8.12	7.62	8.62	OK
Naphthalene-d8	11.59	11.59	11.09	12.09	OK
Acenaphthene-d10	16.44	16.42	15.92	16.92	OK
Phenanthrene-d10	20.44	20.41	19.91	20.91	OK
Chrysene-d12	27.79	27.73	27.23	28.23	OK
Perylene-d12	31.48	31.38	30.88	31.88	OK

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[GC/MS OPERATOR REPORT]

[GC/MS LAB VOLATILES]

942349-02

[INTERNAL STANDARD CHECK REPORT]

SAMPLE FILE = >B0886
CAL CHECK FILE = >BC068
DATE AND TIME OF ANALYSIS = 6/01/94 18:20
MISCELLANEOUS = (VTCL) 5.0g Purge
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

I. Areas

Name of the VOA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
Bromochlorobenzene	10613	25235	12618	50470	BAD *
1,4-Difluorobenzene	34353	108922	54461	217844	BAD *
Chlorobenzene-d5	15143	84051	42025	168102	BAD *

II. Retention Times

Name of the VOA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
Bromochloromethane	8.34	8.16	7.66	8.66	OK
1,4-Difluorobenzene	10.52	10.38	9.88	10.88	OK
Chlorobenzene-d5	18.53	18.47	17.97	18.97	OK

* soil matrix interfered with internal standards. see reanalysis (file >V0946) DM

[GC/MS OPERATOR REPORT]

[GC/MS LAB VOLATILES]

[INTERNAL STANDARD CHECK REPORT]

942349-02
reanalysis

SAMPLE FILE = >V0946
CAL CHECK FILE = >VK930
DATE AND TIME OF ANALYSIS = 6/02/94 13:48
MISCELLANEOUS = (VTCL) 5.0g PURGE
METHOD = VOAMS1
INSTRUMENT = VOA I
OPERATOR = CORE1 SUPER GRP

I. Areas

Name of the VOA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
Bromochlorobenzene	4764	17630	8815	35260	BAD *
1,4-Difluorobenzene	16058	74154	37077	148308	BAD *
Chlorobenzene-d5	6124	59593	29796	119186	BAD *

II. Retention Times

Name of the VOA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
Bromochloromethane	5.42	5.40	4.90	5.90	OK
1,4-Difluorobenzene	7.60	7.56	7.06	8.06	OK
Chlorobenzene-d5	13.35	13.32	12.82	13.82	OK

* Matrix effect upon internal standard areas verified by this reanalysis.

[GC/MS OPERATOR REPORT]

[GC/MS LAB SEMIVOLATILES]

[INTERNAL STANDARD CHECK REPORT]

942349-03

SAMPLE FILE = >A4436
CAL CHECK FILE = >SK451
DATE AND TIME OF ANALYSIS = 5/31/94 15:46
MISCELLANEOUS = 05 25 94 SOLID 30.0g:1ml
METHOD = BNAMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER GRP

I. Areas

Name of the BNA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
1,4-Dichlorobenz-d4	22763	26037	13018	52074	OK
Naphthalene-d8	99588	112796	56398	225592	OK
Acenaphthene-d10	88610	100100	50050	200200	OK
Phenanthrene-d10	187216	246670	123335	493340	OK
Chrysene-d12	240900	372333	186166	744666	OK
Perylene-d12	245191	537313	268656	1074626	BAD *

II. Retention Times

Name of the BNA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
1,4-Dichlorobenz-d4	8.14	8.14	7.64	8.64	OK
Naphthalene-d8	11.59	11.58	11.08	12.08	OK
Acenaphthene-d10	16.44	16.44	15.94	16.94	OK
Phenanthrene-d10	20.45	20.42	19.92	20.92	OK
Chrysene-d12	27.82	27.74	27.24	28.24	OK
Perylene-d12	31.47	31.40	30.90	31.90	OK

* No target analytes were quantitated under this internal standard. Hydrocarbon content of soil matrix interfered with recovery. DFM

009022

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[GC/MS OPERATOR REPORT]

[GC/MS LAB VOLATILES]

[INTERNAL STANDARD CHECK REPORT]

942349-03

SAMPLE FILE = >B0887
CAL CHECK FILE = ~~>VK930~~ B0071
DATE AND TIME OF ANALYSIS = 6/01/94 18:58
MISCELLANEOUS = (VTCL) 5.0g Purge
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

I. Areas

Name of the VOA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
Bromochlorobenzene	19130	17630	8815	35260	OK
1,4-Difluorobenzene	70245	74154	37077	148308	OK
Chlorobenzene-d5	43874	59593	29796	119186	OK

II. Retention Times

Name of the VOA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
Bromochloromethane	8.33	8.31 ~~5.40~~	7.81 ~~4.90~~	8.81 ~~5.90~~	~~BAD~~ OK
1,4-Difluorobenzene	10.51	10.50 ~~7.56~~	10.00 ~~7.06~~	11.00 ~~8.06~~	~~BAD~~ OK
Chlorobenzene-d5	18.50	18.50 ~~13.32~~	18.00 ~~12.82~~	19.00 ~~13.82~~	~~BAD~~ OK

6-2-94

009023

9023

[GC/MS DATA REPORT]

[GC/MS LAB SEMIVOLATILES]

[INTERNAL STANDARD CHECK REPORT]

942349-04

SAMPLE FILE = [illegible]4484
CAL CHECK FILE = [illegible]SK455
DATE AND TIME OF ANALYSIS = 6/07/94 11:03
MISCELLANEOUS = 05 26 94 LIQ. 1L:1ml
METHOD = BNAMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER GRP

I. Areas

Name of the BNA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
1,4-Dichlorobenz-d4	25756	34692	17346	69384	OK
Naphthalene-d8	108723	155766	77883	311532	OK
Acenaphthene-d10	102425	129216	64608	258432	OK
Phenanthrene-d10	244481	284132	142066	568264	OK
Chrysene-d12	340158	418165	209082	836330	OK
Perylene-d12	432357	493163	246581	986326	OK

II. Retention Times

Name of the BNA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
1,4-Dichlorobenz-d4	8.12	8.12	7.62	8.62	OK
Naphthalene-d8	11.59	11.59	11.09	12.09	OK
Acenaphthene-d10	16.42	16.42	15.92	16.92	OK
Phenanthrene-d10	20.42	20.41	19.91	20.91	OK
Chrysene-d12	27.72	27.73	27.23	28.23	OK
Perylene-d12	31.38	31.38	30.88	31.88	OK

009024

9024

[GC/MS OPERATOR REPORT]

[GC/MS LAB VOLATILES]

[INTERNAL STANDARD CHECK REPORT]

942349-04

SAMPLE FILE = >B0849
CAL CHECK FILE = >BC066
DATE AND TIME OF ANALYSIS = 5/25/94 17:13
MISCELLANEOUS = (VTCL) 5.0ml PURGE
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

I. Areas

Name of the VOA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
Bromochlorobenzene	27868	30149	15074	60298	OK
1,4-Difluorobenzene	108679	131013	65506	262026	OK
Chlorobenzene-d5	86240	101898	50949	203796	OK

II. Retention Times

Name of the VOA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
Bromochloromethane	8.16	8.13	7.63	8.63	OK
1,4-Difluorobenzene	10.39	10.36	9.86	10.86	OK
Chlorobenzene-d5	18.46	18.44	17.94	18.94	OK

942349-05

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SAMPLE FILE
CAL CHECK FILE = SK455
DATE AND TIME OF ANALYSIS = 6/07/94 11:
MISCELLANEOUS = 05 26 94 LIQ.
METHOD = BNAMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER GRP

I. Areas

Name of the BNA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
1,4-Dichlorobenz-d4	24790	34692	17346	69384	OK
Naphthalene-d8	97612	155766	77883	311532	OK
Acenaphthene-d10	96299	129216	64608	258432	OK
Phenanthrene-d10	242517	284132	142066	568264	OK
Chrysene-d12	346830	418165	209082	836330	OK
Perylene-d12	458624	493163	246581	986326	OK

II Retention Times

Name of the BNA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
1,4-Dichlorobenz-d4	8.13	8.12	7.62	8.62	OK
Naphthalene-d8	11.57	11.59	11.09	12.09	OK
Acenaphthene-d10	16.42	16.42	15.92	16.92	OK
Phenanthrene-d10	20.42	20.41	19.91	20.91	OK
Chrysene-d12	27.72	27.73	27.23	28.23	OK
Perylene-d12	31.40	31.38	30.88	31.88	OK

[GC/MS OPERATOR REPORT]

[GC/MS LAB VOLATILES]

[INTERNAL STANDARD CHECK REPORT]

942349-05
DIR

SAMPLE FILE = >B0850
CAL CHECK FILE = >BC066
DATE AND TIME OF ANALYSIS = 5/25/94 17:52
MISCELLANEOUS = (VTCL) 5.0ml PURGE
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

I. Areas

Name of the VOA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
Bromochlorobenzene	30415	30149	15074	60298	OK
1,4-Difluorobenzene	115995	131013	65506	262026	OK
Chlorobenzene-d5	90594	101898	50949	203796	OK

II. Retention Times

Name of the VOA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
Bromochloromethane	8.16	8.13	7.63	8.63	OK
1,4-Difluorobenzene	10.40	10.36	9.86	10.86	OK
Chlorobenzene-d5	18.47	18.44	17.94	18.94	OK

[GC/MS LAB SEMIVOLATILES]

[INTERNAL STANDARD CHECK REPORT]

942349-06

SAMPLE FILE = >P4484
CAL CHECK FILE = >SK453
DATE AND TIME OF ANALYSIS = 6/07/94 12:31
MISCELLANEOUS = 05 26 94 LIQ. 1L:1ml
METHOD = BNAMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER GRP

I. Areas

Name of the BNA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
1,4-Dichlorobenz-d4	27513	34692	17346	69384	OK
Naphthalene-d8	110664	155766	77883	311532	OK
Acenaphthene-d10	102193	129216	64608	258432	OK
Phenanthrene-d10	265089	284132	142066	568264	OK
Chrysene-d12	358469	418165	209082	836330	OK
Perylene-d12	446683	493163	246581	986326	OK

II. Retention Times

Name of the BNA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
1,4-Dichlorobenz-d4	8.13	8.12	7.62	8.62	OK
Naphthalene-d8	11.59	11.59	11.09	12.09	OK
Acenaphthene-d10	16.42	16.42	15.92	16.92	OK
Phenanthrene-d10	20.42	20.41	19.91	20.91	OK
Chrysene-d12	27.72	27.73	27.23	28.23	OK
Perylene-d12	31.39	31.38	30.88	31.88	OK

[GC/MS OPERATOR REPORT]

[GC/MS LAB VOLATILES]

942349-06

[INTERNAL STANDARD CHECK REPORT]

SAMPLE FILE = >B0851
CAL CHECK FILE = >BC066
DATE AND TIME OF ANALYSIS = 5/25/94 18:30
MISCELLANEOUS = (VTCL) 5.0ml PURGE
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

I. Areas

Name of the VOA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
Bromochlorobenzene	29547	30149	15074	60298	OK
1,4-Difluorobenzene	115274	131013	65506	262026	OK
Chlorobenzene-d5	88623	101898	50949	203796	OK

II. Retention Times

Name of the VOA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
Bromochloromethane	8.18	8.13	7.63	8.63	OK
1,4-Difluorobenzene	10.39	10.36	9.86	10.86	OK
Chlorobenzene-d5	18.48	18.44	17.94	18.94	OK

[GC/MS QFEE LOG REPORT]

[GC/MS LPB SEMIVOLATILES]

942349-07

[INTERNAL STANDARD CHECK REPORT]

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SAMPLE FILE = >A4497
CAL CHECK FILE = >SK455
DATE AND TIME OF ANALYSIS = 6/07/94 13:15
MISCELLANEOUS = 05 26 94 LIQ
METHOD = BNAMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER GRP

I. Areas

Name of the BNA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
1,4-Dichlorobenz-d4	26624	34692	17346	69384	OK
Naphthalene-d8	106580	155766	77883	311532	OK
Acenaphthene-d10	103752	129216	64608	258432	OK
Phenanthrene-d10	249406	284132	142066	568264	OK
ysene-d12	356491	418165	209082	836330	OK
Perylene-d12	466323	493163	246581	986326	OK

II. Retention Times

Name of the BNA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
1,4-Dichlorobenz-d4	8.13	8.12	7.62	8.62	OK
Naphthalene-d8	11.57	11.59	11.09	12.09	OK
Acenaphthene-d10	16.42	16.42	15.92	16.92	OK
Phenanthrene-d10	20.42	20.41	19.91	20.91	OK
Chrysene-d12	27.73	27.73	27.23	28.23	OK
Perylene-d12	31.38	31.38	30.88	31.88	OK

[GC/MS OPERATOR REPORT]

[GC/MS LAB VOLATILES]

942349-07

[INTERNAL STANDARD CHECK REPORT]

SAMPLE FILE = >B0852
CAL CHECK FILE = >BC066
DATE AND TIME OF ANALYSIS = 5/25/94 19:08
MISCELLANEOUS = (VTCL) 5.0ml PURGE
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

I. Areas

Name of the VOA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
Bromochlorobenzene	29233	30149	15074	60298	OK
1,4-Difluorobenzene	112293	131013	65506	262026	OK
Chlorobenzene-d5	87060	101898	50949	203796	OK

II. Retention Times

Name of the VOA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
Bromochloromethane	8.17	8.13	7.63	8.63	OK
1,4-Difluorobenzene	10.41	10.36	9.86	10.86	OK
Chlorobenzene-d5	18.49	18.44	17.94	18.94	OK

[GC/MS OPERATOR REPORT]

[GC/MS LAB VOLATILES]

942349-08

[INTERNAL STANDARD CHECK REPORT]

SAMPLE FILE = >B0853
CAL CHECK FILE = >BC066
DATE AND TIME OF ANALYSIS = 5/25/94 19:47
MISCELLANEOUS = (VTCL) 5.0ml PURGE
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

I. Areas

Name of the VOA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
Bromochlorobenzene	29727	30149	15074	60298	OK
1,4-Difluorobenzene	112674	131013	65506	262026	OK
Chlorobenzene-d5	88925	101898	50949	203796	OK

II. Retention Times

Name of the VOA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
Bromochloromethane	8.16	8.13	7.63	8.63	OK
1,4-Difluorobenzene	10.40	10.36	9.86	10.86	OK
Chlorobenzene-d5	18.46	18.44	17.94	18.94	OK

[GC/MS OPERATOR REPORT]

[GC/MS LAB SEMIVOLATILES]

[INTERNAL STANDARD CHECK REPORT]

942349-09

SAMPLE FILE = >A4488
CAL CHECK FILE = >SK455
DATE AND TIME OF ANALYSIS = 6/07/94 13:59
MISCELLANEOUS = 05 26 94 LIQ 1L:1m
METHOD = BNAMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER GRP

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I. Areas

Name of the BNA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
1,4-Dichlorobenz-d4	27032	34692	17346	69384	OK
Naphthalene-d8	102812	155766	77883	311532	OK
Acenaphthene-d10	93766	129216	64608	258432	OK
Phenanthrene-d10	257005	284132	142066	568264	OK
Chrysene-d12	355789	418165	209082	836330	OK
Perylene-d12	475010	493163	246581	986326	OK

II. Retention Times

Name of the BNA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
1,4-Dichlorobenz-d4	8.12	8.12	7.62	8.62	OK
Naphthalene-d8	11.59	11.59	11.09	12.09	OK
Acenaphthene-d10	16.42	16.42	15.92	16.92	OK
Phenanthrene-d10	20.42	20.41	19.91	20.91	OK
Chrysene-d12	27.73	27.73	27.23	28.23	OK
Perylene-d12	31.39	31.39	30.88	31.88	OK

[GC/MS OPERATOR REPORT]

[GC/MS LAB VOLATILES]

[INTERNAL STANDARD CHECK REPORT]

942349-09

SAMPLE FILE = >B0854
CAL CHECK FILE = >BC066
DATE AND TIME OF ANALYSIS = 5/25/94 20:25
MISCELLANEOUS = (VTCL) 5.0ml PURGE
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

I. Areas

Name of the VOA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
Bromochlorobenzene	28771	30149	15074	60298	OK
1,4-Difluorobenzene	112233	131013	65506	262026	OK
Chlorobenzene-d5	86693	101898	50949	203796	OK

II. Retention Times

Name of the VOA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
Bromochloromethane	8.17	8.13	7.63	8.63	OK
1,4-Difluorobenzene	10.40	10.36	9.86	10.86	OK
Chlorobenzene-d5	18.49	18.44	17.94	18.94	OK

[GC/MS OPERATOR REPORT]

[GC/MS LAB VOLATILES]

[INTERNAL STANDARD CHECK REPORT]

942349-10

SAMPLE FILE = >B0855
CAL CHECK FILE = >BC066
DATE AND TIME OF ANALYSIS = 5/25/94 21:04
MISCELLANEOUS = (VTCL) 5.0ml PURGE
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

I. Areas

Name of the VOA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
Bromochlorobenzene	28118	30149	15074	60298	OK
1,4-Difluorobenzene	107960	131013	65506	262026	OK
Chlorobenzene-d5	84906	101898	50949	203796	OK

II. Retention Times

Name of the VOA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
Bromochloromethane	8.16	8.13	7.63	8.63	OK
1,4-Difluorobenzene	10.39	10.36	9.86	10.86	OK
Chlorobenzene-d5	18.48	18.44	17.94	18.94	OK

[GC/MS OPERATOR REPORT]

[GC/MS LAB VOLATILES]

[INTERNAL STANDARD CHECK REPORT]

942349-11

SAMPLE FILE = >B0856
CAL CHECK FILE = >BC066
DATE AND TIME OF ANALYSIS = 5/25/94 21:42
MISCELLANEOUS = (VTCL) 5.0ml PURGE
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

I. Areas

Name of the VOA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
Bromochlorobenzene	28887	30149	15074	60298	OK
1,4-Difluorobenzene	109870	131013	65506	262026	OK
Chlorobenzene-d5	85430	101898	50949	203796	OK

II. Retention Times

Name of the VOA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
Bromochloromethane	8.17	8.13	7.63	8.63	OK
1,4-Difluorobenzene	10.40	10.36	9.86	10.86	OK
Chlorobenzene-d5	18.47	18.44	17.94	18.94	OK

[GC/MS OF SEMIVOLATILES]

[INTERNAL STANDARD CHECK REPORT]

942349-12

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SAMPLE FILE = >A4489
CAL CHECK FILE = >SY455
DATE AND TIME OF ANALYSIS = 6/07/94 14:43
MISCELLANEOUS = 05 26 94 LIQ.
METHOD = BNAMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER GRP

I. Areas

Name of the BNA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Areas Precision
1,4-Dichlorobenz-d4	27848	34692	17346	69384	OK
Naphthalene-d8	110027	155766	77883	311532	OK
Acenaphthene-d10	100782	129216	64608	258432	OK
Phenanthrene-d10	256751	284132	142066	568264	OK
Chrysene-d12	374183	418165	209082	836330	OK
Perylene-d12	499589	493163	246581	986326	OK

II. Retention Times

Name of the BNA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
1,4-Dichlorobenz-d4	8.13	8.12	7.62	8.62	OK
Naphthalene-d8	11.58	11.59	11.09	12.09	OK
Acenaphthene-d10	16.43	16.42	15.92	16.92	OK
Phenanthrene-d10	20.42	20.41	19.91	20.91	OK
Chrysene-d12	27.73	27.73	27.23	28.23	OK
Perylene-d12	31.38	31.39	30.88	31.88	OK

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[GC/MS OPERATOR REPORT]

[GC/MS LAB VOLATILES]

[INTERNAL STANDARD CHECK REPORT]

942349-12

SAMPLE FILE = >B0857
CAL CHECK FILE = >BC066
DATE AND TIME OF ANALYSIS = 5/25/94 22:20
MISCELLANEOUS = (VTCL) 5.0ml PURGE
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

I. Areas

Name of the VOA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
Bromochlorobenzene	27901	30149	15074	60298	OK
1,4-Difluorobenzene	107511	131013	65506	262026	OK
Chlorobenzene-d5	83439	101898	50949	203796	OK

II. Retention Times

Name of the VOA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
Bromochloromethane	8.16	8.13	7.63	8.63	OK
1,4-Difluorobenzene	10.40	10.36	9.86	10.86	OK
Chlorobenzene-d5	18.48	18.44	17.94	18.94	OK

[GC/MS OPERATOR REPORT]

[GC/MS LAB SEMIVOLATILES]

942349-13

[INTERNAL STANDARD CHECK REPORT]

SAMPLE FILE = [illegible]4490
CAL CHECK FILE = [illegible]SK455
DATE AND TIME OF ANALYSIS = 6/07/94 15:26
MISCELLANEOUS = 05 26 94 LIQ. 1L:1ml
METHOD = BNAMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER GRP

I Areas

Name of the BNA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
1,4-Dichlorobenz-d4	27446	34692	17346	69384	OK
Naphthalene-d8	107672	155766	77883	311532	OK
Acenaphthene-d10	96511	129216	64608	258432	OK
Phenanthrene-d10	251583	284132	142066	568264	OK
Chrysene-d12	376383	418165	209082	836330	OK
Perylene-d12	439884	493163	246581	986326	OK

II. Retention Times

Name of the BNA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
1,4-Dichlorobenz-d4	8.13	8.12	7.62	8.62	OK
Naphthalene-d8	11.59	11.59	11.09	12.09	OK
Acenaphthene-d10	16.43	16.42	15.92	16.92	OK
Phenanthrene-d10	20.42	20.41	19.91	20.91	OK
Chrysene-d12	27.73	27.73	27.23	28.23	OK
Perylene-d12	31.39	31.38	30.88	31.88	OK

[GC/MS OPERATOR REPORT]

[GC/MS LAB VOLATILES]

[INTERNAL STANDARD CHECK REPORT]

942349-13

SAMPLE FILE = >B0858
CAL CHECK FILE = >BC066
DATE AND TIME OF ANALYSIS = 5/25/94 22:58
MISCELLANEOUS = (VTCL) 5.0ml PURGE
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

I. Areas

Name of the VOA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
Bromochlorobenzene	27934	30149	15074	60298	OK
1,4-Difluorobenzene	111309	131013	65506	262026	OK
Chlorobenzene-d5	85755	101898	50949	203796	OK

II. Retention Times

Name of the VOA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
Bromochloromethane	8.15	8.13	7.63	8.63	OK
1,4-Difluorobenzene	10.37	10.36	9.86	10.86	OK
Chlorobenzene-d5	18.47	18.44	17.94	18.94	OK

[GC/MS OPERATOR REPORT]

[GC/MS LAB SEMIVOLATILES]

[INTERNAL STANDARD CHECK REPORT]

942349-14

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SAMPLE FILE = >A4491
CAL CHECK FILE = >SK455
DATE AND TIME OF ANALYSIS = 6/07/94 16:10
MISCELLANEOUS = 05 26 94 LIQ. 1L:1ml
METHOD = BNAMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER GRP

I. Areas

Name of the BNA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
1,4-Dichlorobenz-d4	27389	34692	17346	69384	OK
Naphthalene-d8	111001	155766	77883	311532	OK
Acenaphthene-d10	102198	129216	64608	258432	OK
Phenanthrene-d10	260874	284132	142066	568264	OK
ysene-d12	370299	418165	209082	836330	OK
Perylene-d12	466279	493163	246581	986326	OK

II. Retention Times

Name of the BNA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
1,4-Dichlorobenz-d4	8.13	8.12	7.62	8.62	OK
Naphthalene-d8	11.60	11.59	11.09	12.09	OK
Acenaphthene-d10	16.43	16.42	15.92	16.92	OK
Phenanthrene-d10	20.41	20.41	19.91	20.91	OK
Chrysene-d12	27.72	27.73	27.23	28.23	OK
Perylene-d12	31.39	31.38	30.88	31.88	OK

[GC/MS OPERATOR REPORT]

[GC/MS LAB VOLATILES]

[INTERNAL STANDARD CHECK REPORT]

942349-14

SAMPLE FILE = >B0859
CAL CHECK FILE = >BC066
DATE AND TIME OF ANALYSIS = 5/25/94 23:37
MISCELLANEOUS = (VTCL) 5.0ml PURGE
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

I. Areas

Name of the VOA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
Bromochlorobenzene	23580	30149	15074	60298	OK
1,4-Difluorobenzene	90427	131013	65506	262026	OK
Chlorobenzene-d5	69644	101898	50949	203796	OK

II. Retention Times

Name of the VOA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
Bromochloromethane	8.16	8.13	7.63	8.63	OK
1,4-Difluorobenzene	10.40	10.36	9.86	10.86	OK
Chlorobenzene-d5	18.48	18.44	17.94	18.94	OK

GC/MS PERFORMANCE STANDARD

Decafluorotriphenylphosphine (DFTPP)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	Appropriate Peak	Status
51	30-60% of mass 198	49.72	49.72	Ok
68	Less than 2% of mass 69	0.00	0.00	Ok
69	(reference only)	59.18	59.18	Ok
70	Less than 2% of mass 69	.25	.43	Ok
127	40-60% of mass 198	40.21	40.21	Ok
197	Less than 1% of mass 198	0.00	0.00	Ok
198	Base peak, 100% relative abundance	100.00	100.00	Ok
199	5-9% of mass 198	6.82	6.82	Ok
275	10-30% of mass 198	24.23	24.23	Ok
365	Greater than 1% of mass 198	3.53	3.53	Ok
441	0-100% of mass 443	11.73	84.80	Ok
442	Greater than 40% of mass 198	80.61	80.61	Ok
443	17-23% of mass 442	13.83	17.16	Ok

Injection Date: 05/31/94
Injection Time: 08:31
Data File: >SD697
Scan: 34

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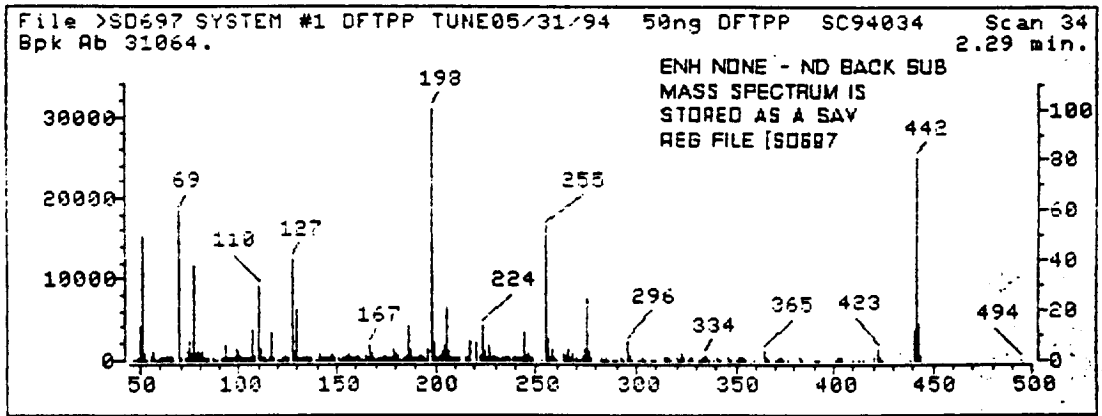

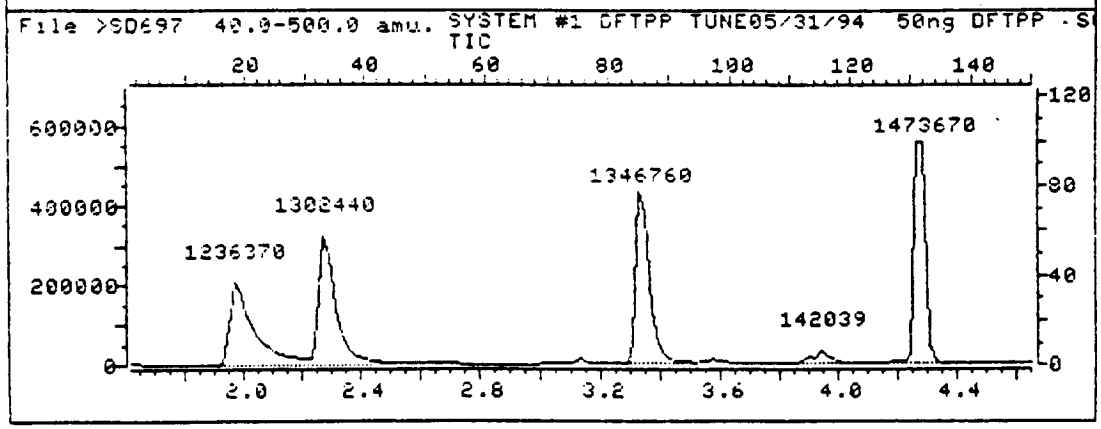

LLB 5-31

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File: [illegible]SD697 Scan #: 34 Retn. time: 2.29

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
40.95	.274	109.95	29.568	173.05	.444	239.05	.344	321.00	.280
43.95	.766	111.05	3.831	173.95	.950	240.15	.241	321.90	.100
47.05	.200	111.95	.483	175.05	1.416	241.05	.332	322.95	2.456
47.85	.167	113.05	.225	176.05	.837	242.05	.808	323.95	.373
49.05	.753	114.95	.216	177.05	1.030	243.15	.660	325.85	.064
49.95	13.015	116.05	.724	178.05	.344	244.10	10.855	326.05	.061
50.95	49.723	117.05	10.340	179.05	3.805	245.00	1.381	326.95	.502
51.95	2.273	117.95	.692	180.05	2.472	246.00	2.189	327.95	.287
52.95	.167	120.00	.142	181.15	1.127	247.00	.377	330.95	.039
55.05	.377	120.90	.097	182.00	.148	248.00	.119	332.05	.148
55.90	1.639	121.90	.824	183.10	.113	249.00	.383	332.95	.238
56.90	3.570	123.00	1.323	184.10	.274	253.00	.174	333.95	1.548
58.00	.167	124.00	.679	185.10	1.658	255.10	53.258	335.05	.408
59.00	.187	125.00	.592	186.10	13.218	256.10	7.961	336.05	.068
59.90	.309	127.00	40.207	187.10	3.576	257.10	.586	338.80	.061
61.00	.737	128.10	2.881	188.00	.283	258.10	3.605	340.90	.285
62.00	.744	129.00	19.956	189.10	.708	259.10	.512	342.00	.113
63.00	1.664	130.00	2.083	190.10	.206	260.85	.093	346.00	.573
64.00	.280	131.00	.447	191.10	.377	263.85	2.263	347.00	.138
65.00	1.111	132.00	.522	192.10	1.175	264.95	1.494	350.00	.052
65.90	.229	132.90	.538	193.10	1.214	265.85	3.763	350.70	.048
69.00	59.181	134.00	.760	194.10	.332	266.85	.264	350.90	.048
70.00	.254	135.05	1.471	195.00	.177	267.85	2.447	351.90	.885
71.00	.290	136.05	.576	196.10	3.686	268.95	.216	353.00	.415
72.95	.522	137.05	.692	197.95	100.000	269.85	.647	353.95	.695
73.95	3.467	138.85	.087	198.95	6.821	270.95	.174	354.95	.097
74.95	6.944	140.05	.209	199.95	1.017	271.95	.196	359.05	.097
76.05	2.125	140.95	2.421	200.95	.457	273.05	1.613	364.85	3.531
77.05	37.262	142.05	.843	201.75	.991	274.05	4.262	365.95	.509
77.95	2.469	143.05	.586	202.95	1.127	275.05	24.227	366.75	.061
78.95	3.216	143.95	.155	204.05	3.435	276.00	3.100	369.65	.068
79.95	2.112	144.95	.219	205.05	5.785	277.00	2.373	369.90	.061
80.95	3.161	146.05	.425	206.05	20.976	278.00	.367	370.90	.216
82.05	.795	147.05	1.130	207.05	3.119	281.80	.064	371.90	1.017
83.05	.814	148.05	2.495	208.05	.850	283.00	.283	372.90	.270
83.95	.212	149.15	.483	209.05	.264	284.00	.126	373.80	.061
84.95	.657	151.00	.325	210.15	.499	285.10	.312	376.40	.045
86.05	.882	151.50	.212	211.05	.995	286.00	.052	382.80	.280
87.00	.615	151.80	.209	211.75	.315	288.00	.048	383.80	.129
87.70	.106	153.00	.802	215.00	.293	289.00	.068	389.95	.151
88.90	.183	154.00	.560	216.00	.525	289.90	.077	390.75	.126
90.90	.837	155.00	1.275	217.00	6.937	292.05	.113	391.95	.090
92.00	.808	156.00	1.983	218.00	.740	292.95	.476	400.75	.071
93.00	5.405	157.10	.493	221.10	6.866	293.95	.126	401.70	.435
93.90	.328	158.10	.409	223.00	1.358	294.15	.119	402.90	.737
94.90	.666	159.10	.251	224.10	13.475	295.95	7.066	403.80	.238
95.90	.373	160.00	.689	225.10	3.332	296.95	1.156	409.80	.048
97.00	.386	161.10	1.107	226.10	.335	297.95	.087	412.50	.035
98.00	4.040	162.00	.296	227.10	5.949	301.05	.116	414.50	.032
99.00	3.065	163.00	.084	228.00	1.037	302.05	.142	420.75	.528

102.10	.264	166.05	.827	231.05	.493	307.90	[illegible]	424.95	.084
102.95	.647	167.05	5.717	231.95	.245	308.90	125	438.70	.045
103.95	.959	168.05	1.983	232.85	.183	310.00	.119	440.80	11.727
104.95	.895	168.95	.692	234.05	.444	314.00	.370	441.80	80.608
106.15	.663	169.95	.180	235.05	.425	315.00	.905	442.80	13.829
107.05	11.544	171.05	.280	236.05	.309	316.00	.393	443.80	1.284
108.05	1.767	171.95	.470	237.05	.550	316.80	.052	494.25	.058

Instrument ID: SV-MS1 Analyzed on: 5/31/94 8:31

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GC-MS PERFORMANCE STANDARD

Decafluorotriphenylphospine (DFTPP)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	Appropriate Peak	Status
51	30-60% of mass 198	49.69	49.69	Ok
68	Less than 2% of mass 69	1.10	1.77	Ok
69	(reference only)	61.89	61.89	Ok
70	Less than 2% of mass 69	.29	.47	Ok
127	40-60% of mass 198	40.36	40.36	Ok
197	Less than 1% of mass 198	0.00	0.00	Ok
198	Base peak, 100% relative abundance	100.00	100.00	Ok
199	5-9% of mass 198	6.86	6.86	Ok
275	10-30% of mass 198	21.26	21.26	Ok
365	Greater than 1% of mass 198	2.79	2.79	Ok
441	0-100% of mass 443	9.90	90.27	Ok
442	Greater than 40% of mass 198	61.52	61.52	Ok
443	17-23% of mass 442	10.97	17.83	Ok

Injection Date: 06/07/94
Injection Time: 08:10
Data File: >SD701
Scan: 34

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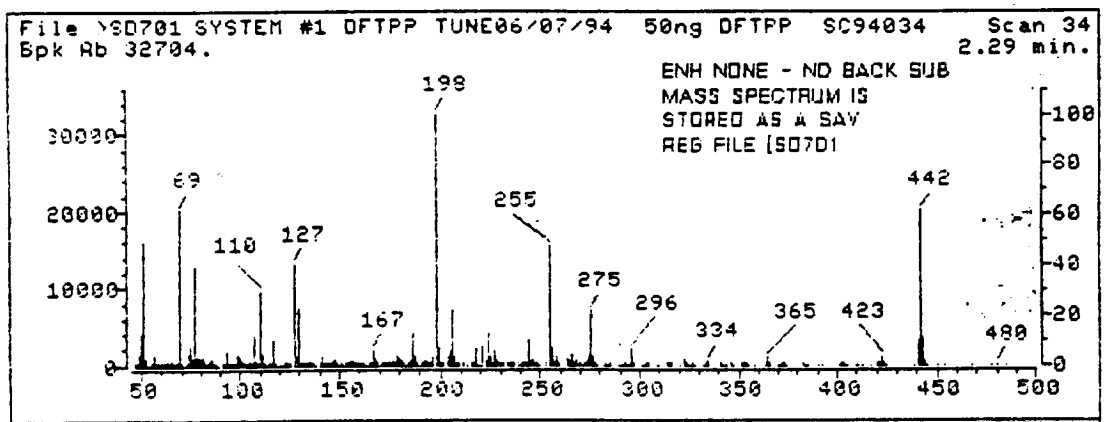

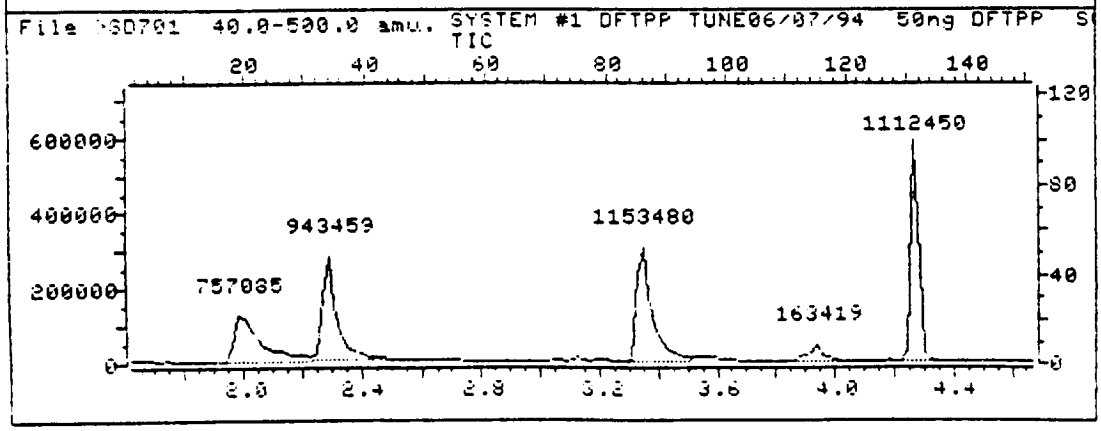

009046

9046

SD701 SYSTEM #: DFTPP TUNE 06/07/94 50ng DFTPP SD940345
34 NRM

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File: >SD701 Scan #: 34 Retn. time: 2.29

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
40.95	.523	106.05	.581	168.95	.645	238.95	.327	326.95	.453
42.05	.190	107.05	11.482	170.15	.177	240.05	.165	327.95	.214
42.95	.612	108.05	1.825	171.05	.242	241.05	.300	331.85	.128
43.95	.624	109.05	.535	172.05	.492	242.05	.605	332.95	.287
44.85	.223	110.05	29.275	173.05	.538	243.05	.685	333.95	1.092
46.95	1.037	111.05	4.076	174.05	.985	244.00	9.577	334.95	.315
47.75	.483	112.05	.480	175.05	1.608	245.00	1.116	341.00	.257
48.95	3.593	113.05	.116	176.05	.667	246.00	1.926	341.90	.110
49.95	12.359	114.95	.333	177.05	1.128	247.00	.471	343.30	.046
50.95	49.688	116.05	.792	177.95	.229	248.00	.089	344.10	.057
51.95	2.669	117.05	10.595	179.05	3.642	249.00	.349	345.90	.382
53.05	.187	118.05	.966	180.05	2.174	250.00	.092	347.00	.113
54.05	.092	118.90	.177	181.05	1.107	253.10	.226	351.10	.086
54.95	.584	119.90	.214	182.10	.242	255.00	47.431	351.90	.612
55.90	1.559	121.10	.211	183.10	.144	256.10	6.562	352.90	.391
56.90	3.932	122.00	.948	184.00	.232	257.10	.532	353.95	.550
58.00	.263	123.00	1.602	185.10	1.575	258.00	3.177	354.75	.128
58.90	.254	124.00	.599	186.10	12.420	259.00	.547	358.15	.034
59.90	.529	125.10	.572	187.10	3.446	263.85	2.498	363.25	.031
60.90	.890	127.00	40.356	188.10	.352	265.05	1.529	364.85	2.789
62.00	.633	128.00	3.495	189.00	.780	265.85	3.761	365.85	.437
63.00	1.593	129.00	22.279	190.10	.141	266.85	.346	369.80	.104
64.00	.272	130.00	2.278	191.10	.431	267.85	2.235	370.80	.180
65.00	1.177	131.00	.541	192.10	1.107	268.75	.217	371.90	1.018
66.00	.349	132.00	.758	193.10	1.137	269.85	.875	372.90	.229
67.00	.297	132.90	.453	194.00	.303	270.95	.196	374.10	.046
68.00	1.098	134.10	.599	195.00	.235	272.05	.321	382.80	.315
69.00	61.888	134.95	1.566	196.10	3.498	273.05	1.544	383.80	.080
70.00	.290	136.05	.590	197.95	100.000	274.05	3.743	384.30	.043
71.00	.465	137.05	.645	198.95	6.858	275.05	21.257	384.60	.034
71.85	.165	137.95	.171	199.95	.923	276.00	2.773	385.00	.040
72.95	.459	140.05	.239	201.85	1.037	276.90	1.847	389.85	.104
73.95	3.892	141.05	2.813	203.05	.841	278.00	.300	391.85	.043
74.95	7.011	142.05	.972	204.05	3.244	279.00	.040	400.75	.128
76.05	1.896	143.05	.816	205.05	5.354	282.00	.064	401.90	.355
77.05	39.286	144.05	.135	206.05	21.334	283.00	.235	402.80	.523
78.05	2.761	145.05	.290	207.05	2.893	284.00	.159	403.80	.187
78.95	3.397	146.05	.440	208.05	.835	285.00	.315	404.80	.064
79.95	2.477	147.05	1.119	209.15	.315	289.00	.080	409.80	.040
80.95	3.308	148.05	2.361	211.05	.939	290.00	.086	410.60	.046
81.95	.761	149.05	.584	213.20	.070	291.10	.092	413.00	.037
83.05	.960	150.00	.138	215.00	.278	291.95	.052	416.60	.043
83.95	2.156	151.10	.352	216.00	.407	292.15	.052	416.85	.043
85.05	.740	151.70	.217	217.00	6.589	292.95	.342	419.75	.046
85.95	2.039	151.90	.193	218.00	.862	294.05	.110	420.75	.501
87.00	.697	153.00	.792	218.80	.034	294.95	.187	421.75	.422
88.00	.391	154.00	.560	219.20	.064	295.95	6.265	421.95	.422
89.00	.162	155.10	1.306	221.10	7.161	296.95	.905	422.75	3.165
91.00	.991	156.10	1.492	223.00	1.358	301.05	.135	423.85	.712
92.00	.853	157.10	.419	224.10	12.044	301.95	.159	424.75	.086

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	.911	160.10	.642	[illegible]	5.443	[illegible]	[illegible]	.080	441.80	61.522
96.10	.557	161.00	1.003	228.00	1.082	310.00		.095	442.80	10.971
97.00	.550	162.00	.272	229.05	1.037	314.00		.342	443.80	1.061
98.00	4.287	163.10	.101	229.95	.557	315.00		.749	445.00	.113
99.00	2.865	163.30	.095	231.05	.394	316.00		.579	450.55	.046
100.00	.477	164.00	.177	231.95	.281	321.00		.171	453.35	.040
101.00	1.844	165.00	1.981	233.95	.370	322.95		2.067	467.60	.043
102.00	.346	166.05	.679	234.95	.505	323.95		.364	477.40	.034
103.05	.731	167.05	5.767	236.05	.245	324.95		.058	480.35	.070
103.95	.963	168.05	1.932	236.95	.498	325.75		.058	484.45	.043
104.95	1.073									

Instrument ID: SV-MS1 Analyzed on: 6/07/94 8:10

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DATA FILE NAME - SK4[illegible]
DATE AND TIME OF ANALYSIS - 5/31/94 8:59
SAMPLE - Sys #1 Calib Check
MISCELLANEOUS = 05 31 94 50ug/L 8270/625 Cmpds. SC930281
METHOD = BNAMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER GRP

CCC COMPOUND	DAILY CAL RF	5-POINT AVE RF	%D
Pe[illegible]henol	.2640	.2995	11.86
1,4-Dichlorobenzene	1.4238	1.4372	.93
2-Nitrophenol	.2101	.2067	1.63
2,4-Dichlorophenol	.3730	.3751	.56
Hexachlorobutadiene	.3680	.3890	5.39
4-Chloro-3-methylphenol	.3830	.3582	6.91
2,4,6-Trichlorophenol	.4472	.4695	4.74
Acenaphthene	1.1698	1.1138	5.03
N-Nitrosodiphenylamine	.3843	.3310	16.11
Fluoranthene	1.5212	1.4789	2.86
Di-n-octylphthalate	1.1605	.9186	26.33
Benzo(a)pyrene	.9974	.8862	12.55
Phenol	1.1118	1.1548	3.72

SPCC COMPOUND	DAILY RF
N-Nitroso-di-n-propylamine	.9658
Hexachlorocyclopentadiene	.5359
2,4-Dinitrophenol	.2230
4-Nitrophenol	.2262

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DAILY CALIBRATION FOR BNA'S PASSED ALL CCC AND SPCC CRITERIA

THE RF AND RT VALUES WILL AUTOMATICALLY BE UPDATED IN YOUR IDFILE

5-31-94

DATA FILE NAME = SK451::D2
DATE AND TIME OF ANALYSIS = 5/31/94 8:59
SAMPLE = Sys.#1 Calib. Check
MISCELLANEOUS = 05 31 94 50ug/L 8270/625 Cmpds. SC930281
METHOD = BNAMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER GRP

Compound Name	Retention Times RRT FOUND	RRT IN THE IDFILE	RT DIFF-ERENCE	Response factors RF FOUND	AVE. RF FROM 5-POINT	RATIO RF FOUND TO RF IN IDFILE
Azobenzene (1,2-D.P.H)	.90303	.90302	.00017	.73676	.6811	1.0365
4-Bromophenyl-phenylether	.94703	.94602	.02035	.26795	.2894	.97624
Hexachlorobenzene	.96002	.96002	-.0002	.43845	.5034	.98070
Phenanthrene	1.0030	1.0030	-.0001	1.1004	1.0494	1.0161
Anthracene	1.0090	1.0090	-.0001	1.0989	1.0195	.97187
Carbazole	1.0390	1.0390	-.0001	1.0812	.9455	1.0107
Di-n-butylphthalate	1.1039	1.1039	-.0006	1.7364	1.5224	.95109
Fluoranthene	1.1628	1.1629	-.0024	1.5212	1.4789	.95091
Benzidine	.87869	.87836	.01750	.20877	.1633	.96640
Butylbenzylphthalate	.95882	.95942	-.0073	.66125	.5134	1.0361
3,3'-Dichlorobenzidine	1.0044	1.0037	.02995	.45384	.3223	.98977
Benzo(a)anthracene	.99778	.99778	.00962	1.2029	1.0785	1.0568
bis(2-Ethylhexyl)phthalate	1.0206	1.0207	.00838	1.0187	.7860	1.0291
-n-octylphthalate	.95315	.95362	.00330	1.1605	.9186	1.1400
Benzo(b)fluoranthene	.97136	.97124	.02193	1.0580	1.0595	.85967
Benzo(k)fluoranthene	.97136	.97386	-.0602	1.0580	.8219	1.2061
Benzo(a)pyrene	.99543	.99542	.01922	.99739	.8862	.97214
Indeno(1,2,3-cd)pyrene	1.0749	1.0746	.02795	1.2521	1.1044	1.0474
Dibenz(a,h)anthracene	1.0768	1.0766	.02782	.95773	.7700	.97895
Benzo(g,h,i)perylene	1.0938	1.0943	.00555	1.0644	.9707	1.0263
Phenol	.96237	.96489	-.0207	1.1118	1.1548	.87049
2-Chlorophenol	.94982	.94982	-.0002	1.0436	1.0566	.91924
1,4-Dichlorobenzene	1.0050	1.0050	-.0002	1.4238	1.4372	.93126
N-Nitroso-di-n-propylamine	1.1830	1.1830	-.0003	.96576	1.0073	.95638
1,2,4-Trichlorobenzene	.99470	.99471	.00000	.46161	.4624	1.0042
4-Chloro-3-methylphenol	1.1760	1.1778	-.0207	.38296	.3582	.96428
Acenaphthene	1.0050	1.0050	.02032	1.1698	1.1138	.99646
4-Nitrophenol	1.0596	1.0597	.02032	.22619	.2233	.94889
2,4-Dinitrotoluene	1.0521	1.0522	.02032	.55114	.5273	.97209
Pentachlorophenol	.98998	.98999	-.0003	.26399	.2995	.94925
Pyrene	.87722	.87688	.01757	1.0713	.8979	1.0560
2-Fluorophenol (SURR)	.60662	.60658	.00015	.61612	.6642	.90612
Phenol-d5 (SURR)	.95986	.96238	-.0207	1.0174	1.0192	.95106
Nitrobenzene-d5 (SURR)	.84679	.84681	-.0003	.29758	.3262	1.0030
2-Fluorobiphenyl (SURR)	.89576	.89688	-.0001	1.0752	1.0843	1.0310
2,4,6-Tribromophenol (SURR)	.91404	.91404	.00002	.23974	.3232	.92060
Terphenyl-d14 (SURR)	.90149	.90120	.01660	.77987	.7803	1.0075

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[illegible] DAILY CALIBRATION OF MS OPERATOR [illegible] [illegible]

DATA FILE NAME = [illegible]SK451:02
DATE AND TIME OF ANALYSIS = 5/31/94 0:59
SAMPLE = Sys.#1 Calib. Check
MISCELLANEOUS = 05 31 94 50ug/L 8270/625 Cmpds. SC930281
METHOD = BNAMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER CRP

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POOR QUALITY
ORIGINAL

Compound Name	Retention Times: RRT FOUND	RRT IN THE IDFILE	RT DIFF-ERENCE	Response Factors: RF FOUND	AVE. RF FROM 5-POINT	RATIO RF FOUND TO RF IN IDFILE
Pyridine	.22836	.22834	.00010	.64908	.7856	.70121
n-Nitrosodimethylamine	.23086	.23335	-.0203	.40210	.4683	.88273
Aniline	.91974	.91974	-.0002	1.2214	1.2841	.91791
bis(2-Chloroethyl)ether	.95233	.91974	.26490	.79051	1.2798	.59369
1,3-Dichlorobenzene	.98244	.98244	-.0003	1.4030	1.4034	.93260
Benzyl alcohol	1.0902	1.0652	.20362	.04661	.5551	5.2286
1,2-Dichlorobenzene	1.0652	1.0652	-.0003	1.5027	1.4664	.97750
2-Methylphenol	1.1504	1.1529	-.0207	1.0162	1.0267	.78152
bis(2-Chloroisopropyl)ether	1.1328	1.1303	.02017	2.5433	2.6962	.97222
4-Methylphenol	1.2005	1.2030	-.0207	1.1796	1.0770	.99439
Hexachloroethane	1.1604	1.1604	-.0002	.74227	.7670	.95740
Nitrobenzene	.85032	.85034	-.0003	.46330	.3531	.96493
Isophorone	.90840	.90842	-.0002	.58926	.6456	.96150
Nitrophenol	.92425	.92426	-.0002	.21007	.2067	1.0174
,4-Dimethylphenol	.96121	.96122	-.0001	.26041	.2519	.97909
Benzoic acid	1.0176	1.0194	-.0203	.25390	.2580	.93153
bis(2-Chloroethoxy)methane	.97531	.97532	-.0001	.38768	.4135	.97648
2,4-Dichlorophenol	.98588	.98589	-.0001	.37301	.3751	.99773
Naphthalene	1.0053	1.0053	.00005	.91401	.9296	.99770
4-Chloroaniline	1.0423	1.0405	.02052	.38394	.3600	.97152
Hexachlorobutadiene	1.0546	1.0546	.00015	.36805	.3890	.98853
2-Methylnaphthalene	1.1708	1.1690	.02015	.77320	1.0273	1.0592
1-Methylnaphthalene	1.1937	1.1937	-.0002	.73394	.7286	1.0279
Hexachlorocyclopentadiene	.86347	.86455	-.0002	.53587	.4915	1.2530
2,4,6-Trichlorophenol	.88456	.88567	-.0002	.44724	.4695	.95811
2,4,5-Trichlorophenol	.89202	.89313	-.0001	.53625	.4911	.99710
2-Chloronaphthalene	.90447	.90559	-.0002	1.1026	1.0541	1.0281
2-Nitroaniline	.93919	.94036	-.0001	.42287	.3868	1.0203
Dimethylphthalate	.98013	.98135	-.0001	1.4855	1.4332	.97535
Acenaphthylene	.97268	.97389	-.0000	1.8200	1.7238	1.0137
2,6-Dinitrotoluene	.98882	.99005	-.0000	.36096	.3337	1.0138
3-Nitroaniline	1.0112	1.0112	.02030	.33049	.2798	1.0063
2,4-Dinitrophenol	1.0273	1.0273	.02039	.22299	.2086	1.1104
Dibenzofuran	1.0323	1.0323	.02043	1.8140	1.7128	1.0132
Diethylphthalate	1.0993	1.1007	.00020	1.7532	1.7321	.94868
4-Chlorophenyl-phenylether	1.0968	1.0982	.00018	.79142	.7950	.96225
Fluorene	1.0894	1.0895	.02060	1.4240	1.3320	1.0083
4-Nitroaniline	1.1142	1.1156	.00023	.41511	.3640	1.0051
6-Dinitro-2-methylphenol	.90002	.90001	.00024	.15830	.1450	1.0720
Nitrosodiphenylamine	.90303	.90302	.00017	.38434	.3310	1.0152

DATA FILE NAME = SP455:07
DATE AND TIME OF ANALYSIS = 6/07/94 8:25
SAMPLE = Sys.#1 Calib. Check
MISCELLANEOUS = 06 07 94 50ug/L 8270/625 Cmpds. SC930281
METHOD = ENAMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER GRP

CCC COMPOUND	DAILY CAL RF	5-POINT AVE RF	%D
Pentachlorophenol	.2552	.2995	14.79
1,4-Dichlorobenzene	1.5074	1.4372	4.88
2-Nitrophenol	.2108	.2067	1.98
2,4-Dichlorophenol	.3708	.3751	1.17
Hexachlorobutadiene	.3272	.3890	15.89
4-Chloro-3-methylphenol	.3829	.3582	6.88
2,4,6-Trichlorophenol	.3874	.4695	17.49
Acenaphthene	1.1695	1.1138	5.00
N-Nitrosodiphenylamine	.4161	.3310	25.71
Fluoranthene	1.4798	1.4789	.06
Di-n-octylphthalate	1.1312	.9186	23.14
Benzo(a)pyrene	1.0541	.8862	18.95
Phenol	1.1498	1.1548	.43

SPCC COMPOUND	DAILY RF
N-Nitroso-di-n-propylamine	1.0598
Hexachlorocyclopentadiene	.4684
2,4-Dinitrophenol	.2308
4-Nitrophenol	.247

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DAILY CALIBRATION FOR BNA'S PASSED ALL CCC AND SPCC CRITERIA

THE RF AND RT VALUES WILL AUTOMATICALLY BE UPDATED IN YOUR IDFILE

6/7/9

DATA FILE NAME = >SK455::D5
DATE AND TIME OF ANALYSIS = 6/07/94 8:25
SAMPLE = Sys.#1 Calib. Check
MISCELLANEOUS = 06 07 94 50ug/L 8270/625 Cmpds. SC930281
METHOD = BNAMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER GRP

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Compound Name	Retention Times: RRT FOUND	RRT IN THE IDFILE	RT DIFF-ERENCE	Response factors: RF FOUND	AVE. RF FROM 5-POINT	RATIO RF FOUND TO RF IN IDFILE
Pyridine	.22890	.22891	.00003	.94371	.7856	1.1318
n-Nitrosodimethylamine	.23392	.23393	.00003	.44393	.4683	.82494
Aniline	.92202	.92205	.00023	1.3294	1.2841	1.0238
bis(2-Chloroethyl)ether	.95469	.95220	.02068	.84988	1.2798	1.0338
1,3-Dichlorobenzene	.98489	.98491	.00030	1.4349	1.4034	.98685
Benzyl alcohol	1.0654	1.0955	-.2439	.00851	.5551	.45385
1,2-Dichlorobenzene	1.0654	1.0653	.00073	1.4931	1.4664	1.0151
2-Methylphenol	1.1533	1.1508	.02113	1.0041	1.0267	.79270
bis(2-Chloroisopropyl)ether	1.1332	1.1331	.00072	2.5990	2.6962	.97249
4-Methylphenol	1.2036	1.2036	.00073	1.1335	1.0770	.99590
Hexachloroethane	1.1634	1.1633	.00070	.81596	.7670	1.0309
robenzene	.85026	.84851	.02113	.46485	.3531	.93280
ophorone	.90660	.90661	.00080	.62435	.6456	1.0099
2-Nitrophenol	.92422	.92423	.00083	.21080	.2067	.96991
2,4-Dimethylphenol	.96119	.95944	.02130	.27128	.2519	1.0136
Benzoic acid	1.0176	1.0176	.00105	.30640	.2580	1.1252
bis(2-Chloroethoxy)methane	.97529	.97530	.00087	.42044	.4135	1.0140
2,4-Dichlorophenol	.98587	.98588	.00093	.37076	.3751	.97251
Naphthalene	1.0053	1.0035	.02148	.93082	.9296	.96116
4-Chloroaniline	1.0405	1.0405	.00120	.41848	.3600	.97070
Hexachlorobutadiene	1.0546	1.0546	.00123	.32719	.3890	.92139
2-Methylnaphthalene	1.1690	1.1690	.00131	.73567	1.0273	.93022
1-Methylnaphthalene	1.1937	1.1937	.00133	.91249	.7286	1.0906
Hexachlorocyclopentadiene	.86451	.86453	.00150	.46842	.4915	1.0625
2,4,6-Trichlorophenol	.88563	.88565	.00162	.38739	.4695	.93382
2,4,5-Trichlorophenol	.89435	.89312	.02213	.50451	.4911	.94720
2-Chloronaphthalene	.90432	.90434	.00167	1.1203	1.0541	1.0373
2-Nitroaniline	.94036	.94036	.00198	.46160	.3868	1.0411
Dimethylphthalate	.98011	.98000	.00386	1.4996	1.4332	1.0313
Acenaphthylene	.97389	.97265	.02253	1.8953	1.7238	1.0198
2,6-Dinitrotoluene	.99005	.99005	.00215	.36861	.3337	1.0483
3-Nitroaniline	1.0112	1.0112	.00217	.37062	.2798	1.0175
2,4-Dinitrophenol	1.0273	1.0274	.00215	.23082	.2086	1.0139
Dibenzofuran	1.0323	1.0323	.00213	1.8003	1.7128	1.0148
Diethylphthalate	1.0995	1.0995	.00227	1.8340	1.7321	1.0057
4-Chlorophenyl-phenylether	1.0970	1.0970	.00225	.76727	.7950	1.0129
uorene	1.0895	1.0895	.00220	1.3727	1.3320	.97133
itroaniline	1.1156	1.1156	.00228	.43525	.3640	.98876
4,6-Dinitro-2-methylphenol	.90090	.90090	.00230	.16661	.1450	1.0805
N-Nitrosodiphenylamine	.90391	.90391	.00232	.41611	.3310	1.0604

DATA FILE NAME = [illegible]
DATE AND TIME OF ANALYSIS = 6/07/94 [illegible]
SAMPLE = Sys.#1 Calib. Check
MISCELLANEOUS = 06 07 94 50ug/L 8270/625 Cmpds. SC930281
METHOD = BNOMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER GRP

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Compound Name	Retention Times: RRT FOUND	RRT IN THE IDFILE	RT DIFF-ERENCE	Response factors: RF FOUND	AVE. RF FROM 5-POINT	RATIO RF FOUND TO RF IN IDFILE
Azobenzene (1,2-D P.H)	.90391	.90391	.00232	.86585	.6811	1.0828
4-Bromophenyl-phenylether	.94697	.94696	.00253	.27478	.2894	1.0470
Hexachlorobenzene	.96098	.96098	.00258	.42702	.5034	1.0745
Phenanthrene	1.0040	1.0040	.00265	1.1274	1.0494	1.0262
Anthracene	1.0090	1.0090	.00268	1.1396	1.0195	1.0502
Carbazole	1.0400	1.0400	.00300	1.2045	.9455	1.0805
Di-n-butylphthalate	1.1040	1.1040	.00309	1.7397	1.5224	1.0398
Fluoranthene	1.1639	1.1639	.00303	1.4798	1.4789	1.0535
Benzidine	.88009	.87935	.02345	.16638	.1633	.85872
Butylbenzylphthalate	.95880	.95879	.00327	.70557	.5134	.93141
3,3'-Dichlorobenzidine	1.0044	1.0044	.00334	.44607	.3223	.92378
[illegible]zo(a)anthracene	.99852	.99852	.00335	1.0981	1.0785	.91941
[illegible]s(2-Ethylhexyl)phthalate	1.0207	1.0207	.00342	1.0193	.7860	.88903
Di-n-octylphthalate	.95314	.95312	.00333	1.1312	.9186	1.0073
Benzo(b)fluoranthene	.97135	.97134	.00312	1.3040	1.0595	.99489
Benzo(k)fluoranthene	.97331	.97330	.00312	.87115	.8219	1.0688
Benzo(a)pyrene	.99543	.99543	.00288	1.0541	.8862	.99573
Indeno(1,2,3-cd)pyrene	1.0748	1.0749	.00156	1.1267	1.1044	.98901
Dibenz(a,h)anthracene	1.0775	1.0769	.02208	.88148	.7700	.98133
Benzo(g,h,i)perylene	1.0938	1.0938	.00129	.95815	.9707	.96512
Phenol	.96476	.96479	.00025	1.1498	1.1548	.93029
2-Chlorophenol	.95217	.95220	.00025	1.0894	1.0566	1.0107
1,4-Dichlorobenzene	1.0050	1.0050	.00052	1.5074	1.4372	1.0171
N-Nitroso-di-n-propylamine	1.1860	1.1860	.00072	1.0598	1.0073	1.0248
1,2,4-Trichlorobenzene	.99470	.99470	.00098	.43463	.4624	.98786
4-Chloro-3-methylphenol	1.1796	1.1761	.04220	.38286	.3582	.90129
Acenaphthene	1.0050	1.0050	.00218	1.1695	1.1138	1.0145
4-Nitrophenol	1.0671	1.0622	.08383	.24742	.2233	1.0766
2,4-Dinitrotoluene	1.0535	1.0535	.00220	.55399	.5273	.99457
Pentachlorophenol	.99097	.99097	.00260	.25521	.2995	1.0783
Pyrene	.87714	.87713	.00302	1.0691	.8979	.91907
2-Fluorophenol (SURR)	.60811	.60561	.02058	.64580	.6642	1.0086
Phenol-d5 (SURR)	.96224	.96227	.00025	1.0320	1.0192	.98386
Nitrobenzene-d5 (SURR)	.84497	.84498	.00073	.31733	.3262	1.0231
[illegible]-Fluorobiphenyl (SURR)	.89685	.89687	.00163	1.0645	1.0843	1.0672
[illegible],6-Tribromophenol (SURR)	.91494	.91494	.00233	.24198	.3232	1.1057
[illegible]erphenyl-d14 (SURR)	.90143	.90143	.00310	.76116	.7803	.91670

Calibration Report

Title: Semi-volatile Organics By EPA 8270/625 (SYSTEM #1)
Calibrated: 940518 14:20

Compound	Files: >A4365 RF 20.00	>A4366 RF 50.00	>A4367 RF 80.00	>A4368 RF 120.00	>A4369 RF 160.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CORR1	CORR2	
Pyridine	.81062	.77286	.86006	.65141	.83318	.230	.78562	10.381	.977498	.982908	
n-Nitrosodimethylamine	.52952	.48999	.43839	.40256	.48106	.235	.46830	10.460	.987477	.995294	
2-Fluorophenol (SURR)	.68819	.65100	.66195	.66118	.65859	.603	.66418	2.123	-	-	(Conc=200.0,200.0
Phenol-d5 (SURR)	1.07170	1.02219	1.00279	1.00796	.99120	.957	1.01917	3.081	-	-	(Conc=200.0,200.0
Phenol	1.21505	1.16467	1.18328	1.13483	1.07609	.960	1.15478	4.568	.998412	.999770	
Aniline	1.33300	1.29032	1.32912	1.25016	1.21774	.921	1.28407	3.896	.998893	.999740	
bis(2-Chloroethyl)ether	1.33237	1.27020	1.32912	1.24980	1.21774	.921	1.27985	3.915	.998839	.999628	
2-Chlorophenol	1.16484	1.07373	1.05424	1.03193	.95814	.950	1.05658	7.070	.997990	.999429	
1,3-Dichlorobenzene	1.52119	1.38098	1.43051	1.36870	1.31546	.984	1.40337	5.525	.998956	.999667	
1,4-Dichlorobenzene	1.59056	1.44770	1.44231	1.38386	1.32150	1.006	1.43719	6.948	.999032	.999865	
Benzyl alcohol	.52226	.53384	.56798	.55979	.59176	1.084	.55513	4.985	.999084	.999639	
1,2-Dichlorobenzene	1.59707	1.48181	1.44506	1.42006	1.38812	1.065	1.46643	5.502	.999871	.999989	
2-Methylphenol	1.05766	1.03426	1.02974	1.00800	1.00361	1.146	1.02665	2.127	.999938	.999978	
bis(2-Chloroisopropyl)ether	2.73474	2.68871	2.77480	2.66845	2.61408	1.133	2.69615	2.289	.999428	.999856	
4-Methylphenol	1.11901	1.09579	1.08606	1.05364	1.03059	1.199	1.07702	3.250	.999650	.999990	
N-Nitroso-di-n-propylamine	1.01935	1.01518	1.01054	1.00220	.98900	1.184	1.00725	1.194	.999918	.999997	
Hexachloroethane	.86709	.76924	.76364	.72506	.71021	1.162	.76705	7.988	.999639	.999891	
Nitrobenzene-d5 (SURR)	.33605	.32333	.32934	.31783	.32434	.845	.32618	2.106	-	-	(Conc=100.0,100.0,
Nitrobenzene	.39186	.35634	.33371	.35046	.33294	.850	.35306	6.795	.998909	.998936	
Isophorone	.66643	.63753	.64166	.64015	.64221	.908	.64560	1.826	.999973	.999990	
2-Nitrophenol	.20951	.20372	.20674	.20620	.20738	.924	.20671	1.012	.999966	.999983	
2,4-Dimethylphenol	.25664	.25891	.25239	.24982	.24152	.959	.25186	2.692	.999500	.999946	
Benzoic acid	.17528	.22189	.28929	.30403	.29961	1.018	.25802	22.073	.998220	.998334	
bis(2-Chloroethoxy)methane	.43887	.41767	.41580	.40358	.39146	.976	.41348	4.276	.999537	.999964	
2,4-Dichlorophenol	.36947	.37331	.38544	.37766	.36986	.984	.37515	1.767	.999609	.999913	
1,2,4-Trichlorobenzene	.49121	.47630	.46237	.44318	.43916	.994	.46245	4.753	.999702	.999895	
Naphthalene	1.04396	.95917	.90930	.89155	.84426	1.004	.92965	8.173	.999065	.999808	
4-Chloroaniline	.48760	.40552	.36523	.30121	.24028	1.039	.35997	26.417	.959610	.987562	
Hexachlorobutadiene	.41958	.39395	.38820	.36940	.37384	1.055	.38899	5.101	.999704	.999707	
4-Chloro-3-methylphenol	.36317	.34454	.36170	.36231	.35952	1.172	.35825	2.172	.999809	.999810	
2-Methylnaphthalene	1.15254	1.05499	1.01602	.95237	.96065	1.169	1.02731	7.943	.999529	.999554	
1-Methylnaphthalene	.80441	.74355	.72941	.68914	.67642	1.194	.72859	6.948	.999509	.999888	
Hexachlorocyclopentadiene	.36864	.53507	.52697	.51971	.50695	.864	.49142	14.129	.998295	.999880	
2,4,6-Trichlorophenol	.48155	.46807	.49778	.45619	.44386	.884	.46949	4.495	.997808	.999264	
2,4,5-Trichlorophenol	.53846	.51847	.48317	.47457	.44085	.890	.49110	7.789	.997872	.999536	
2-Chloronaphthalene	1.20437	1.09812	1.08478	.97592	.90745	.905	1.05413	10.928	.995445	.999650	
2-Fluorobiphenyl (SURR)	1.12152	1.09349	1.06699	1.10158	1.03799	.897	1.08432	2.993	-	-1.0000	(Conc=100.0,100.0,

RF - Response Factor (Subscript is amount in ug/ml)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

.Rn - Coefficient of Correlation (nth degree)

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009055

009055

9055

5/18/9

Calibration Report

Title: Semi-volatile Organics By EPA 8270/625 (SYSTEM #1)
Calibrated: 940518 14:20

Compound	Files: >A4365 RF 20.00	>A4366 RF 50.00	>A4367 RF 80.00	>A4368 RF 120.00	>A4369 RF 160.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CORR1	CORR2	
2-Nitroaniline	.39684	.39388	.41233	.37398	.35703	.939	.38681	5.565	.996486	.999354	
Dimethylphthalate	1.50380	1.45795	1.44586	1.41962	1.33872	.981	1.43319	4.254	.998607	.999711	
Acenaphthylene	1.92175	1.79114	1.77621	1.63653	1.49357	.973	1.72384	9.492	.994827	.999466	
2,6-Dinitrotoluene	.33657	.34193	.36016	.32805	.30193	.990	.33373	6.387	.993743	.999134	
3-Nitroaniline	.36200	.29210	.28129	.25032	.21341	1.010	.27983	19.727	.986200	.996347	
Acenaphthene	1.29301	1.15393	1.14209	1.02435	.95581	1.005	1.11384	11.662	.995751	.999594	
2,4-Dinitrophenol	.08385	.18829	.25308	.25277	.26522	1.026	.20864	36.431	.998873	.998912	
4-Nitrophenol	.20159	.23192	.23816	.22818	.21686	1.054	.22334	6.457	.997579	.999901	
Dibenzofuran	1.97721	1.77685	1.73706	1.59567	1.47731	1.033	1.71282	11.069	.996312	.999749	
2,4-Dinitrotoluene	.51840	.53079	.55211	.52926	.50581	1.053	.52727	3.247	.998362	.999773	
Diethylphthalate	1.96520	1.83259	1.68491	1.68135	1.49668	1.101	1.73215	10.192	.995051	.997795	
4-Chlorophenyl-phenylether	.89555	.84486	.81569	.71904	.69990	1.097	.79501	10.493	.996690	.999005	
Fluorene	1.53313	1.35504	1.37016	1.23852	1.16299	1.090	1.33197	10.600	.996462	.999469	
4-Nitroaniline	.38117	.36538	.36516	.37548	.33275	1.116	.36399	5.152	.994568	.996539	
4,6-Dinitro-2-methylphenol	.12875	.14994	.15512	.15717	.13379	.901	.14496	8.893	.988262	.993579	
N-Nitrosodiphenylamine	.43238	.37084	.29559	.30083	.25515	.904	.33096	21.248	.988768	.992443	
Azobenzene (1,2-D.P.H)	.85931	.76483	.63232	.61523	.53400	.904	.68114	19.019	.991179	.996549	
2,4,6-Tribromophenol (SURR)	.30453	.33841	.32009	.33655	.31657	.914	.32323	4.408	-	-	(Conc=200.0,200.0,
4-Bromophenyl-phenylether	.30716	.30732	.28920	.27779	.26574	.947	.28944	6.302	.998679	.999953	
Hexachlorobenzene	.54436	.53610	.49054	.48976	.45623	.961	.50340	7.247	.997992	.999319	
Pentachlorophenol	.29662	.29204	.30092	.31723	.29059	.990	.29948	3.580	.996973	.997653	
enanthrene	1.17282	1.07000	1.02953	1.03027	.94418	1.003	1.04936	7.900	.997507	.998817	
Anthracene	1.19753	1.07979	.95861	.97035	.89100	1.009	1.01946	11.808	.997568	.998559	
Carbazole	1.13094	.95619	.83569	.92993	.87453	1.039	.94545	12.041	.996708	.996838	
Di-n-butylphthalate	1.75391	1.66722	1.49768	1.46011	1.23298	1.104	1.52238	13.253	.987478	.994409	
Fluoranthene	1.67976	1.61596	1.43612	1.44844	1.21431	1.163	1.47892	12.278	.987223	.992452	
Benzidine	.14960	.18206	.17173	.15862	.15427	.878	.16326	8.185	.996482	.999456	
Pyrene	1.09095	.95257	.85750	.80105	.78755	.877	.89792	14.026	.999321	.999578	
Terphenyl-d14 (SURR)	.78828	.78442	.76193	.76136	.80541	.902	.78028	2.404	-	-	(Conc=100.0,100.0,
Butylbenzylphthalate	.57240	.53556	.51465	.50138	.44296	.959	.51339	9.230	.993754	.997770	
3,3'-Dichlorobenzidine	.32487	.38898	.33545	.31134	.25076	1.004	.32228	15.409	.968661	.989138	
Benzo(a)anthracene	1.17186	1.14295	1.06213	1.05288	.96249	.998	1.07846	7.654	.996862	.999035	
Chrysene	1.10094	1.08498	.94838	.89446	.80966	1.003	.96768	12.888	.993966	.999394	
bis(2-Ethylhexyl)phthalate	.84909	.88091	.76720	.75874	.67409	1.021	.78600	10.377	.993086	.997846	
Di-n-octylphthalate	1.19042	1.10516	.89021	.79184	.61550	.954	.91863	25.380	.956691	.981395	
Benzo(b)fluoranthene	.96466	1.17672	1.11337	1.08191	.96079	.972	1.05949	8.940	.991626	.998484	
Benzo(k)fluoranthene	1.22032	.80230	.64166	.53174	.91370	.974	.82195	32.431	.911641	.991180	

RF - Response Factor (Subscript is amount in ug/ml)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CORRn - Coefficient of Correlation (nth degree)

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009056

9056

Calibration Report

Title: Semi-volatile Organics By EPA 8270/625 (SYSTEM #1)
Calibrated: 940518 1:20

Compound	Files: >A4365 RF 20.00	>A4366 RF 50.00	>A4367 RF 80.00	>A4368 RF 120.00	>A4369 RF 160.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CORR1	CORR2
Benzo(a)pyrene	1.00793	.94780	.86272	.89041	.72227	.996	.88623	12.197	.982511	.986545
Indeno(1,2,3-cd)pyrene	.91140	1.20045	1.17419	1.16288	1.07290	1.075	1.10437	10.691	.995690	.999465
Dibenz(a,h)anthracene	.61738	.89266	.88908	.79398	.65676	1.077	.76997	16.672	.970717	.992842
Benzo(g,h,i)perylene	.83036	1.06664	1.03696	1.02422	.89555	1.094	.97074	10.531	.990177	.997190

009057

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ORIGINAL

RF - Response Factor (Subscript is amount in ug/ml)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CORRn - Coefficient of Correlation (nth degree)

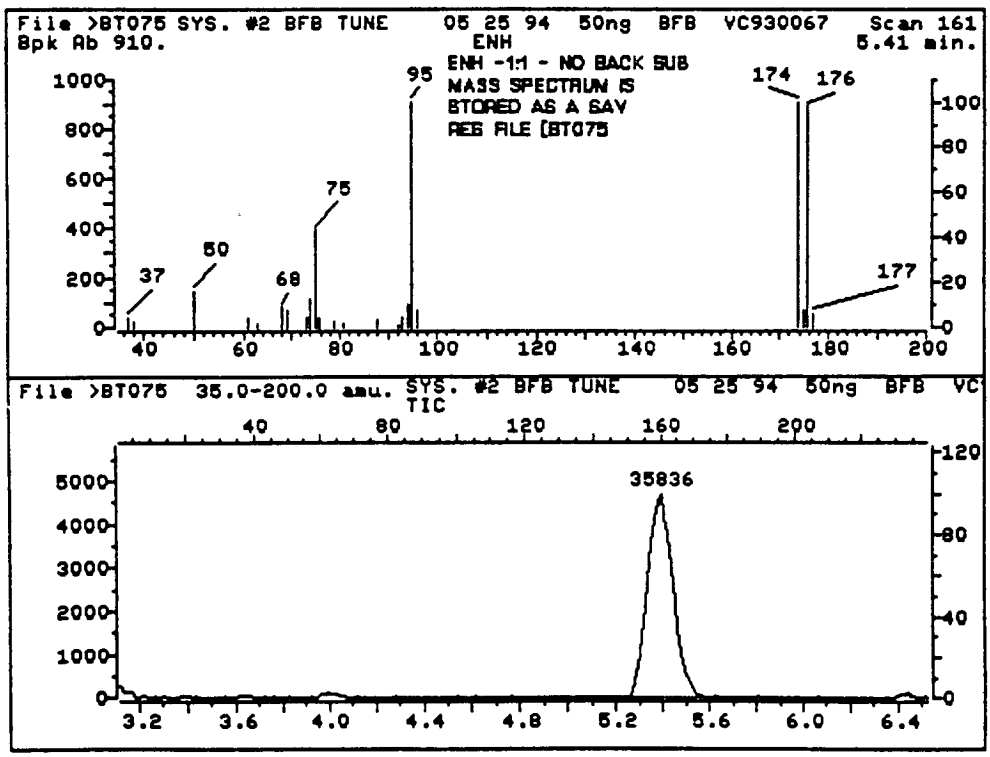
GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
50	15-40% of mass 95	15.87	15.87	Ok
75	30-60% of mass 95	43.09	43.09	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	7.44	7.44	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	99.82	99.82	Ok
175	5-9% of mass 174	7.40	7.42	Ok
176	95-101% of mass 174	97.65	97.83	Ok
177	5-9% of mass 176	6.08	6.23	Ok

009058

Injection Date: 05/25/94
Injection Time: 12:09
Data File: >BT075
Scan: 161



Instrument ID: VOA II Analyzed on: 5/25/94 12:09

MJH 05-25-94

009058

9058

>BT075 SYS. #2 BFB TUNE 05 25 94 50ng BFB VC930067
161 NRM ENH

File: >BT075 Scan #: 161 Retn. time: 5.41

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
37.00	4.287	67.95	8.684	75.95	3.811	92.95	3.811	173.90	99.817
38.00	2.345	68.95	7.622	78.90	2.455	93.95	10.260	174.90	7.402
49.95	15.867	72.95	4.361	80.70	1.063	94.95	100.000	175.90	97.655
61.00	3.884	73.95	12.422	87.95	2.748	95.95	7.439	176.90	6.083
63.00	1.832	74.95	43.093	91.95	.733				

Instrument ID: VOA II Analyzed on: 5/25/94 12:09

009059

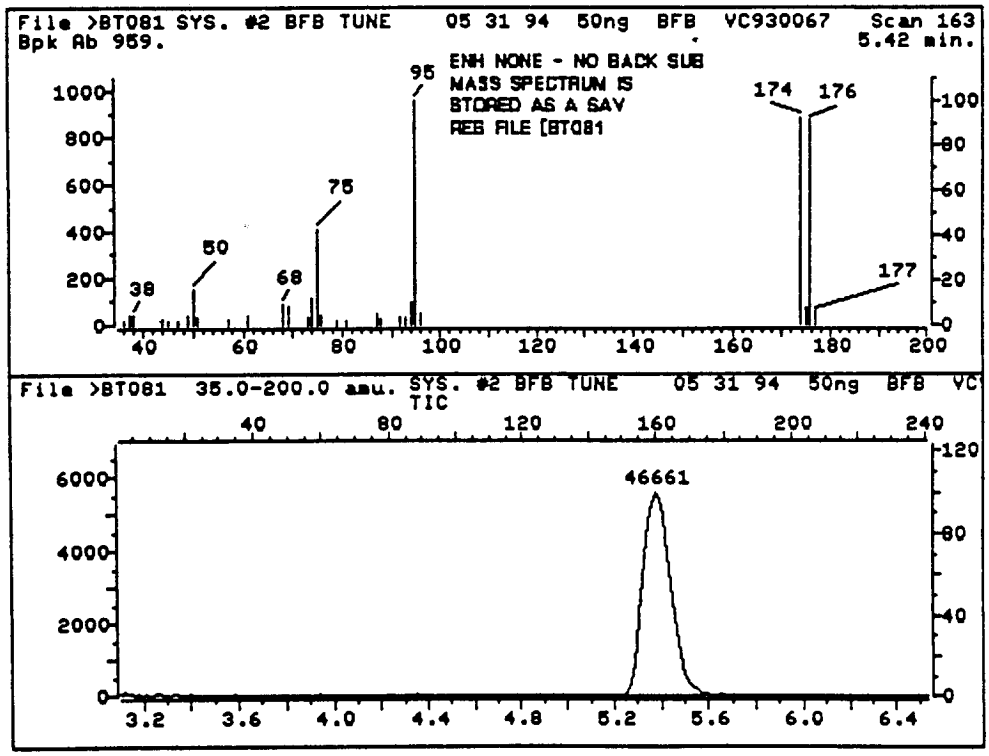
GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
50	15-40% of mass 95	15.95	15.95	Ok
75	30-60% of mass 95	42.86	42.86	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	5.11	5.11	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	92.28	92.28	Ok
175	5-9% of mass 174	7.72	8.36	Ok
176	95-101% of mass 174	91.14	98.76	Ok
177	5-9% of mass 176	5.53	6.06	Ok

009060

Injection Date: 06/01/94
Injection Time: 15:57
Data File: >BT081
Scan: 163



Instrument ID: VOA II Analyzed on: 6/01/94 15:57

009060

9060

>BT081 SYS. #2 BFB TUNE 05 31 94 50ng BFB VC930067
163 NRM

File: >BT081 Scan #: 163 Retn. time: 5.42

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
35.90	1.564	48.95	4.275	68.95	8.238	80.80	1.564	94.95	100.000
37.10	4.067	49.95	15.954	72.95	3.128	86.90	4.588	95.95	5.109
38.00	4.171	50.85	3.545	73.95	11.679	87.95	2.607	173.90	92.284
43.95	2.503	57.00	2.086	74.95	42.857	91.85	2.815	174.90	7.716
44.85	1.147	60.80	3.858	75.95	3.754	92.95	3.024	175.80	91.137
46.95	1.251	67.95	9.281	78.80	1.356	93.95	9.489	176.90	5.527

Instrument ID: VOA II Analyzed on: 6/01/94 15:57

009061

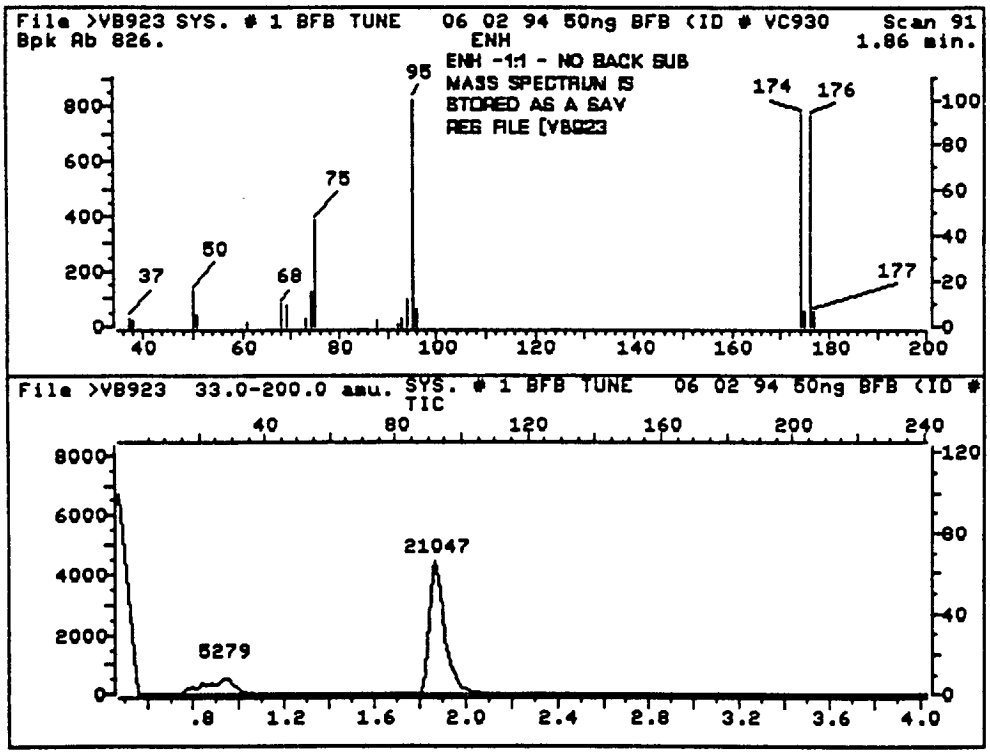
GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	Appropriate Peak	Status
50	15-40% of mass 95	15.38	15.38	Ok
75	30-60% of mass 95	46.67	46.67	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	7.47	7.47	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	93.54	93.54	Ok
175	5-9% of mass 174	6.62	7.08	Ok
176	95-101% of mass 174	92.57	98.96	Ok
177	5-9% of mass 176	6.30	6.80	Ok

009062

Injection Date: 06/02/94
Injection Time: 09:32
Data File: >VB923
Scan: 91



Instrument ID: VOA I Analyzed on: 6/02/94 9:32

MJK 060294

009062

9062

>VB923 SYS. # 1 BFB TUNE 06 02 94 50ng BFB (ID # VC930067)
91 NRM ENH

File: >VB923 Scan #: 91 Retn. time: 1.86

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
37.10	3.270	61.05	1.373	74.05	14.695	93.00	3.230	174.05	93.541
38.10	2.705	68.05	9.528	75.10	46.669	94.10	11.546	175.05	6.621
50.15	15.382	69.05	9.407	88.00	2.220	95.10	100.000	176.05	92.572
51.05	4.804	73.05	3.230	92.00	.767	96.10	7.469	177.05	6.298

Instrument ID: VOA I Analyzed on: 6/02/94 9:32

009063

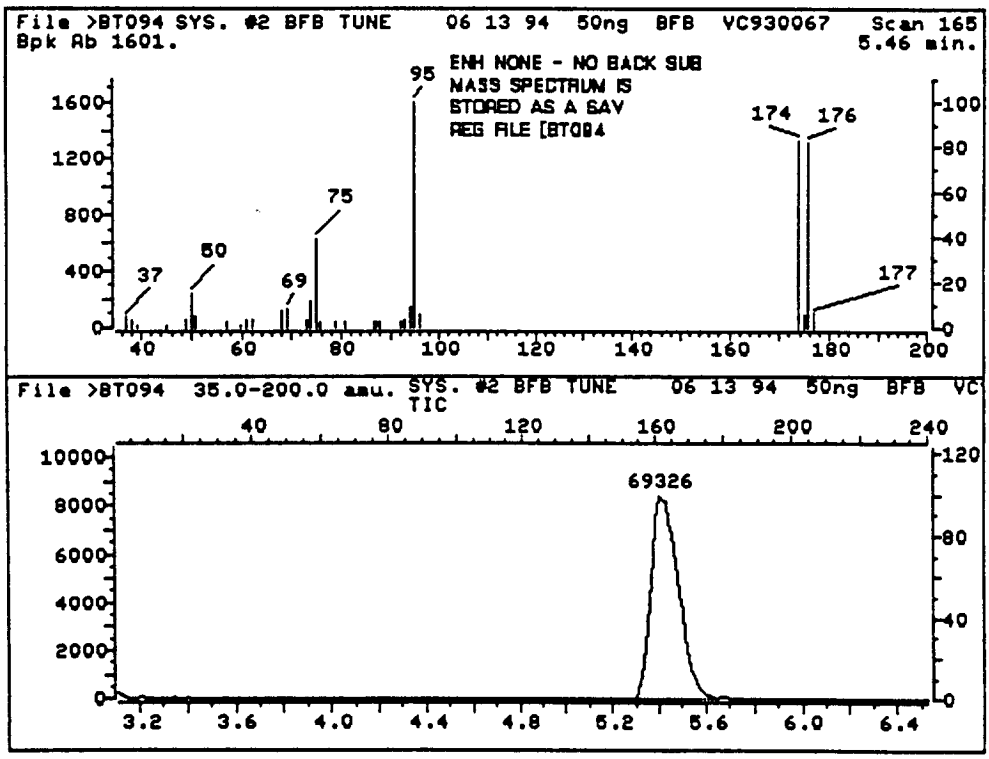
GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
50	15-40% of mass 95	15.18	15.18	Ok
75	30-60% of mass 95	39.48	39.48	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	6.00	6.00	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	82.95	82.95	Ok
175	5-9% of mass 174	5.93	7.15	Ok
176	95-101% of mass 174	82.32	99.25	Ok
177	5-9% of mass 176	6.37	7.74	Ok

009064

Injection Date: 06/13/94
Injection Time: 09:00
Data File: >BT094
Scan: 165



Instrument ID: VOA II Analyzed on: 6/13/94 9:00

06.13.94
VS

009064

9064

>BT094 SYS. #2 BFB TUNE 06 13 94 50ng BFB VC930067
165 NRM

File: >BT094 Scan #: 165 Retn. time: 5.46

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
37.00	4.560	57.00	2.186	72.95	3.560	86.70	2.374	94.95	100.000
37.90	3.560	59.90	.750	73.95	11.493	86.90	2.436	95.95	5.996
39.00	.999	61.00	2.811	74.95	39.475	87.80	2.374	173.90	82.948
45.15	.750	62.00	3.248	75.95	2.686	91.95	2.061	174.90	5.934
48.95	3.310	67.95	7.495	78.90	2.249	92.85	2.748	175.90	82.324
49.95	15.178	69.05	8.557	80.80	2.374	93.95	9.369	176.90	6.371
50.95	4.560								

Instrument ID: VOA II Analyzed on: 6/13/94 9:00

009065

[CCC AND SPCC DAILY CALIBRATION CHECK OPERATOR REPORT VOA'S]

DATA FILE NAME = >BC067::D3
DATE AND TIME OF ANALYSIS = 5/25/94 14:04
SAMPLE = SYSTEM #2 CAL. CHEC
MISCELLANEOUS = 05 25 94 50ug/L Daily CCC/ CC940091
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

	Retention Times	Response factors	
CCC COMPOUND	DAILY CAL RF	5-POINT AVE RF	%D
Vinyl Chloride	.3464	.4307	19.56
1,1-Dichloroethene	.9152	.8655	5.74
Chloroform	2.6287	3.1233	15.84
1,2-Dichloropropane	.2090	.2366	11.66
Toluene	.5788	.7155	19.10
Ethylbenzene	.4104	.4683	12.36

009066

SPCC COMPOUND	DAILY RF
Chloromethane	.3307
1,1-Dichloroethane	1.5296
Bromoform	.4734
1,1,2,2-Tetrachloroethane	.5236
Chlorobenzene	.9408

DAILY CALIBRATION FOR VOA'S PASSED ALL CCC AND SPCC CRITERIA

THE RF AND RT VALUES WILL AUTOMATICALLY BE UPDATED IN YOUR IDFILE

MJH 05-25-94

[RRT AND RF DAILY CALIBRATION GC/MS OPERATOR REPORT VOA'S]

DATA FILE NAME = >BC067::D3
DATE AND TIME OF ANALYSIS = 5/25/94 14:04
SAMPLE = SYSTEM #2 CAL. CHEC
MISCELLANEOUS = 05 25 94 50ug/L Daily CCC/ CC940091
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

Compound Name	Retention Times: RRT FOUND	RRT IN THE IDFILE	RT DIFF-ERENCE	Response factors: RF FOUND	AVE. RF FROM 5-POINT	RATIO RF FOUND TO RF IN IDFILE
Dichlorodifluoromethane	.29195	.29117	.01050	.77631	.6521	1.0174
Chloromethane	.32543	.32467	.01083	.33074	.3193	.95265
Vinyl Chloride	.33261	.33185	.01093	.34645	.4307	.90953
Bromomethane	.38528	.38698	-.0083	.79189	.7574	.95274
Chloroethane	.38767	.38698	.01113	.31511	.2877	.94136
Trichlorofluoromethane	.42358	.42057	.03052	1.7942	3.7129	1.0573
Acrolein	.47624	.47573	.01093	.02737	.0323	1.3187
Acetone	.48821	.48770	.01107	.18642	.1879	1.4766
1,1-Dichloroethene	.50975	.50447	.05022	.91518	.8655	.92299
Methylene Chloride	.60070	.59782	.03198	1.0310	.7872	.91503
Carbon Disulfide	.60550	.59782	.07105	1.4849	2.3779	1.0867
[illegible]yl-t-Butyl Ether (MTBE)	.62706	.62417	.03245	1.6322	2.4010	1.1911
Acrylonitrile	.63185	.63136	.01307	.09889	.0788	1.2635
cis-1,2-Dichloroethene	.65102	.65293	-.0062	1.0315	.9269	.91032
Hexane	.00000	.64834	-5.269	.00000	1.0607	******
1,1-Dichloroethane	.75630	.75585	.01447	1.5296	1.8214	1.1385
trans-1,2-Dichloroethene	.91397	.91382	.01432	1.2151	1.0646	.95644
Chloroform	.95221	.95213	.01430	2.6287	3.1233	1.1169
1,2-Dichloroethane	1.1888	1.1891	.01442	1.6577	2.1113	1.1694
Vinyl Acetate	.59701	.59641	.01442	.15251	.2023	1.2069
2-Butanone (MEK)	.68508	.68462	.01428	.06856	.0635	1.5180
1,1,1-Trichloroethane	.82942	.83102	-.0051	.54136	.8608	1.0692
Carbon Tetrachloride	.88379	.88169	.03392	.50671	.8000	1.0023
Benzene	.92691	.92487	.03388	.53801	.6323	1.0844
Trichloroethene	1.0675	1.0675	.01395	.42011	.4750	1.0734
1,2-Dichloropropane	1.1181	1.1182	.01403	.20901	.2366	1.1117
Bromodichloromethane	1.1781	1.1783	.01418	.52276	.6559	.91143
1,4-Dioxane	1.1931	1.1914	.03367	.00256	.0026	1.3258
Dibromomethane	1.1893	1.1914	-.0053	.42883	.3882	.98263
2-Chloroethyl vinyl ether	1.2718	1.2721	.01462	.13826	.1591	1.2059
cis-1,3-Dichloropropene	1.3206	1.3209	.01487	.35858	.4579	1.0950
trans-1,3-Dichloropropene	1.4575	1.4580	.01515	.41470	.5560	1.1228
1,1,2-Trichloroethane	1.4950	1.4955	.01510	.28669	.3287	1.1736
Dibromochloromethane	1.6243	1.6250	.01502	.59652	.7027	.93145
1,2-Dibromoethane	1.6768	1.6776	.01492	.45910	.4655	1.1052
Bromoform	2.0591	2.0586	.03393	.47340	.5683	1.1028
4-Methyl-2-Pentanone	.71564	.71618	.01462	.26014	.2677	1.3872
[illegible]ene	.78203	.78268	.01493	.57882	.7155	1.0634
2-Hexanone	.84629	.84599	.03459	.17290	.1649	1.4844
Tetrachloroethene	.87473	.87554	.01511	.54896	.5830	.99867
Chlorobenzene	1.0053	1.0063	.01480	.94082	1.0675	1.0856

009067

Ethylbenzene	1.0148	1.0159	.01479	.41040	.4683	1.1190
m & p-Xylene	1.0274	1.0275	.03420	.51584	.5878	1.0885
o-Xylene	1.0959	1.0960	.03445	1.0944	1.3778	1.1096
[illegible]vrene	1.1043	1.1056	.01495	.83807	.9495	1.0955
[illegible]2,2-Tetrachloroethane	1.1917	1.1921	.03390	.52358	.5519	1.2238
[illegible]-Dichlorobenzene	1.3737	1.3755	.01432	1.0180	1.1059	1.0514
1,4-Dichlorobenzene	1.3916	1.3935	.01422	1.1018	1.1635	1.0607
1,2-Dichlorobenzene	1.4432	1.4442	.03232	.95360	1.0049	1.1124
1,2-Dibromo-3-chloropropane	1.5422	1.5443	.01325	.15305	.1495	1.2200
Naphthalene	1.6580	1.6593	.03263	.96748	.9086	1.0600
.....					0.0000	.....
1,2-Dichloroethane-d4 (SURR)	1.1601	1.1604	.01442	1.5008	1.6926	1.1283
Toluene-d8 (SURR)	.77148	.77106	.03437	1.0254	1.0705	.99845
Bromofluorobenzene (SURR)	1.1970	1.1973	.03388	.82966	1.1903	1.0410

009068

[CCC AND SPCC DAILY CALIBRATION CHECK OPERATOR REPORT VOA'S]

DATA FILE NAME = >BC071::D2
DATE AND TIME OF ANALYSIS = 6/01/94 16:26
SAMPLE = SYSTEM #2 CAL. CHEC
MISCELLANEOUS = 06 01 94 50ug/L Daily CCC/ CC940091
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

	Retention Times	Response factors	
CCC COMPOUND	DAILY CAL RF	5-POINT AVE RF	%D
Vinyl Chloride	.2893	.2709	6.80
1,1-Dichloroethene	1.2577	1.1869	5.97
Chloroform	2.3443	2.5029	6.34
1,2-Dichloropropane	.2015	.2193	8.13
Toluene	.5599	.5949	5.88
Ethylbenzene	.3867	.4000	3.33

SPCC COMPOUND	DAILY RF
Chloromethane	.2510
1,1-Dichloroethane	1.4871
Bromoform	.4853
1,1,2,2-Tetrachloroethane	.4353
Chlorobenzene	.9102

FAILED THE DAILY CALIBRATION CHECK ON CCCS AND SPCCS
PRINTING THE DAILY CALIBRATION STATISTICS NOW

MJH

009069

009069

9069

[RRT AND RF DAILY CALIBRATION GC/MS OPERATOR REPORT VOA'S]

DATA FILE NAME = >BC071::D2
DATE AND TIME OF ANALYSIS = 6/01/94 16:26
SAMPLE = SYSTEM #2 CAL. CHEC
MISCELLANEOUS = 06 01 94 50ug/L Daily CCC/ CC940091
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

	Retention Times			Response factors		
Compound Name	RRT FOUND	RRT IN THE IDFILE	RT DIFF-ERENCE	RF FOUND	AVE. RF FROM 5-POINT	RATIO RF FOUND TO RF IN IDFILE
Dichlorodifluoromethane	.48683	.47805	.14260	.98087	1.1776	.83292
Chloromethane	.33687	.32728	.12733	.25101	.1921	1.3067
Vinyl Chloride	.33921	.33062	.11956	.28933	.2709	1.0679
Bromomethane	.39309	.38547	.11950	.73167	.5809	1.2595
Chloroethane	.39309	.38594	.11561	.28755	.2284	1.2588
Trichlorofluoromethane	.43059	.42126	.13892	2.0969	2.0850	1.0057
Acrolein	.48918	.47948	.15039	.06057	.0642	.94308
Acetone	.49857	.49191	.12703	.13492	.1514	.89105
1,1-Dichloroethene	.51265	.50959	.09969	1.2577	1.1869	1.0596
Trichlorotrifluoroethane	.48449	.47853	.11923	2.4142	2.8063	.86029
Methylene Chloride	.60873	.60599	.11109	.90781	.8529	1.0644
Carbon Disulfide	.60639	.60599	.09160	.08416	1.7306	.04863
Methyl-t-Butyl Ether (MTBE)	.63686	.62551	.18540	1.3791	2.2753	.60615
Acrylonitrile	.00000	.87599	-7.148	.00000	.0019	.00000
trans-1,2-Dichloroethene	.66266	.65134	.18889	.98852	.8893	1.1116
Hexane	.00000	.87602	-7.148	.00000	.1987	.00000
1,1-Dichloroethane	.76574	.75675	.18491	1.4871	1.5404	.96545
cis-1,2-Dichloroethene	.91800	.91175	.18472	1.1282	1.0438	1.0809
Chloroform	.95548	.95277	.16133	2.3443	2.5029	.93664
1,2-Dichloroethane	1.1804	1.1875	.11452	1.3730	1.4781	.92885
Vinyl Acetate	.60914	.59941	.16558	.32740	.3590	.91198
2-Butanone (MEK)	.69433	.68820	.13705	.05278	.0628	.84061
1,1,1-Trichloroethane	.83326	.83023	.11951	.55132	.6011	.91724
Carbon Tetrachloride	.88698	.88194	.14608	.59172	.6303	.93880
Benzene	.92775	.92617	.11439	.55643	.6003	.92687
Trichloroethene	1.0648	1.0674	.08519	.44806	.4675	.95841
1,2-Dichloropropane	1.1149	1.1176	.08932	.20147	.2193	.91852
Bromodichloromethane	1.1725	1.1769	.07792	.55306	.5540	.99825
1,4-Dioxane	1.1873	1.1938	.05839	.00189	.0030	.62183
Dibromomethane	.00000	1.1900	-12.37	.00000	.5080	.00000
Methyl methacrylate	1.1428	1.1476	.06998	.16868	.1897	.88896
2-Chloroethyl vinyl ether	1.2615	1.2702	.04269	.12442	.1432	.86907
cis-1,3-Dichloropropene	1.3134	1.3201	.06916	.36492	.4028	.90602
trans-1,3-Dichloropropene	1.4468	1.4572	.04411	.34525	.3807	.90692
1,1,2-Trichloroethane	1.4838	1.4940	.05133	.27128	.2941	.92227
Dibromochloromethane	1.6117	1.6240	.04170	.65614	.6502	1.0091
1,2-Dibromoethane	1.6617	1.6753	.03336	.46957	.5170	.90834
Bromoform	2.0377	2.0571	.01328	.48528	.5187	.93560
4-Methyl-2-Pentanone	.71820	.71639	.05422	.19832	.2299	.86249
Toluene	.78552	.78237	.08091	.55994	.5949	.94124
2-Hexanone	.84757	.84665	.04147	.12276	.1446	.84910

Tetrachloroethene	.87597	.87489	.04513	.58560	.5870	.99769
Chlorobenzene	1.0063	1.0057	.04045	.91020	.9258	.98314
Ethylbenzene	1.0158	1.0154	.03642	.38669	.4000	.96678
m & p-Xylene	1.0957	1.0957	.03197	.23492	.2382	.98640
o-Xylene	1.0957	1.0959	.02807	1.0375	1.0807	.96009
Styrene	1.1041	1.1043	.02810	.80886	.8194	.98712
1,1,2,2-Tetrachloroethane	1.1903	1.1913	.01626	.43533	.4719	.92245
1,3-Dichlorobenzene	1.3732	1.3740	.02330	.98796	1.0334	.95600
1,4-Dichlorobenzene	1.3910	1.3919	.02320	1.0423	1.0568	.98627
1,2-Dichlorobenzene	1.4415	1.4431	.01168	.88631	.9313	.95168
1,2-Dibromo-3-chloropropane	1.5404	1.5423	.00777	.14334	.1490	.96200
Divinylbenzene	1.5319	1.5341	.00382	.45208	.4332	1.0435
Naphthalene	1.6549	1.6573	.00388	1.0407	.9869	1.0545
.....					0.0000	.....
1,2-Dichloroethane-d4 (SURR)	1.1546	1.1584	.13791	1.2079	1.2946	.93307
Toluene-d8 (SURR)	.77394	.77097	.07707	1.0124	1.0132	.99917
Bromofluorobenzene (SURR)	1.1966	1.1964	.03967	.84466	1.0669	.79168

[CCC AND SPCC DAILY CALIBRATION CHECK OPERATOR REPORT VOA'S]

DATA FILE NAME = >VK930::D4
DATE AND TIME OF ANALYSIS = 6/02/94 9:46
SAMPLE = SYS.#1 CALIB. CHECK
MISCELLANEOUS = 06 02 94 50ug/L Daily 8240 Std. CC940101
METHOD = VOAMS1
INSTRUMENT = VOA I
OPERATOR = CORE1 SUPER GRP

	Retention Times	Response factors	
CCC COMPOUND	DAILY CAL RF	5-POINT AVE RF	%D
Vinyl Chloride	.4074	.3295	23.65
1,1-Dichloroethene	1.4672	1.3243	10.79
Chloroform	3.0369	3.5642	14.79
1,2-Dichloropropane	.2579	.2709	4.81
Toluene	.6617	.6405	3.31
Ethylbenzene	.3921	.4111	4.63

009072

SPCC COMPOUND	DAILY RF
Chloromethane	.3418
1,1-Dichloroethane	2.0469
Bromoform	.5100
1,1,2,2-Tetrachloroethane	.3770
Chlorobenzene	.9081

DAILY CALIBRATION FOR VOA'S PASSED ALL CCC AND SPCC CRITERIA

THE RF AND RT VALUES WILL AUTOMATICALLY BE UPDATED IN YOUR IDFILE

MJH 060294

[RRT AND RF DAILY CALIBRATION GC/MS OPERATOR REPORT VOA'S]

DATA FILE NAME = >VK930::D4
DATE AND TIME OF ANALYSIS = 6/02/94 9:46
SAMPLE = SYS.#1 CALIB. CHECK
MISCELLANEOUS = 06 02 94 50ug/L Daily 8240 Std. CC940101
METHOD = VOAMS1
INSTRUMENT = VOA I
OPERATOR = CORE1 SUPER GRP

Compound Name	Retention Times: RRT FOUND	RRT IN THE IDFILE	RT DIFF-ERENCE	Response factors: RF FOUND	AVE. RF FROM 5-POINT	RATIO RF FOUND TO RF IN IDFILE
Dichlorodifluoromethane	.60908	.60622	.01080	1.4383	1.4734	.99073
Chloromethane	.31953	.32082	-.0094	.34175	.2466	.92460
Vinyl Chloride	.30505	.30276	.01002	.40743	.3295	1.0538
Bromomethane	.35209	.35332	-.0093	.71741	.6475	.98472
Chloroethane	.37742	.37861	-.0093	.35411	.2941	1.0370
Trichlorofluoromethane	.46065	.45447	.02987	1.9866	2.0665	.96660
Acrolein	.47875	.47614	.01045	.07771	.0864	.88056
Acetone	.51495	.51589	-.0090	.17749	.2207	.86065
1,1-Dichloroethene	.55837	.55562	.01062	1.4672	1.3243	1.1091
Trichlorotrifluoroethane	.60545	.60260	.01077	2.6310	2.3822	1.0457
Methylene Chloride	.61996	.62071	-.0087	1.3325	1.1822	1.4679
Carbon Disulfide	.59094	.58813	.01072	.13431	1.9962	.99680
Methyl-t-Butyl Ether (MTBE)	.78643	.78688	-.0084	2.0427	3.1489	.97064
Acrylonitrile	.92395	.91750	.02785	.00522	.0047	******
trans-1,2-Dichloroethene	.74301	.73991	.01110	1.2735	1.0915	1.0514
Hexane	.00000	.91782	-4.959	.00000	1.1728	******
1,1-Dichloroethane	.80453	.80134	.01113	2.0469	1.5497	.96234
cis-1,2-Dichloroethene	.00000	.96026	-5.189	.00000	1.2317	.00000
Chloroform	1.0217	1.0217	-.0077	3.0369	3.5642	.94714
1,2-Dichloroethane	1.1846	1.1807	.01208	1.8288	2.3708	.93307
Vinyl Acetate	.61531	.61579	-.0082	.34773	.4095	.91998
2-Butanone (MEK)	.65660	.65702	-.0080	.08281	.0883	.94928
1,1,1-Trichloroethane	.82962	.82721	.01208	.71528	.8497	.96418
Carbon Tetrachloride	.89933	.89685	.01210	.74526	.8959	.96963
Benzene	.89417	.89427	-.0074	.79977	.7331	1.0517
Trichloroethene	1.0723	1.0723	-.0075	.49105	.4945	1.0219
1,2-Dichloropropane	1.0620	1.0619	-.0076	.25787	.2709	1.0442
Bromodichloromethane	1.1033	1.1032	-.0073	.68830	.7753	1.0280
1,4-Dioxane	1.1343	1.1342	-.0072	.00201	.0037	.92011
Dibromomethane	1.0697	1.0697	-.0075	.44088	.4762	1.0329
Methyl methacrylate	1.1679	1.1677	-.0070	.16537	.2201	.94737
2-Chloroethyl vinyl ether	1.2479	1.2476	-.0069	.13763	.1588	.93663
cis-1,3-Dichloropropene	1.2737	1.2734	-.0070	.43456	.4867	.95496
trans-1,3-Dichloropropene	1.4002	1.3998	-.0072	.40907	.4628	.95980
1,1,2-Trichloroethane	1.4183	1.4179	-.0072	.30257	.3329	.95664
Dibromochloromethane	1.5190	1.5185	-.0075	.68637	.7280	1.0356
1,2-Dibromoethane	1.5629	1.5624	-.0075	.50279	.5854	.98953
Bromoform	1.9218	1.9209	-.0073	.51002	.6520	.97318
4-Methyl-2-Pentanone	.73328	.73340	-.0068	.18584	.2423	.89565
Toluene	.79190	.79202	-.0072	.66169	.6405	.95773
2-Hexanone	.86958	.86968	-.0075	.11531	.1647	.88473

[CCC AND SPCC DAILY CALIBRATION CHECK OPERATOR REPORT VOA'S]

DATA FILE NAME = >BC079::D3
DATE AND TIME OF ANALYSIS = 6/13/94 9:17
SAMPLE = SYSTEM #2 CAL. CHEC
MISCELLANEOUS = 06 13 94 50ug/L Daily CCC/ CC940103
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

	Retention Times	Response factors	
CCC COMPOUND	DAILY CAL RF	5-POINT AVE RF	%D
Vinyl Chloride	.3191	.4147	23.05
1,1-Dichloroethene	1.6226	1.3922	16.55
Chloroform	2.2828	2.5882	11.80
1,2-Dichloropropane	.1903	.2346	18.90
Toluene	.5741	.6530	12.08
Ethylbenzene	.3870	.4329	10.61

SPCC COMPOUND	DAILY RF
Chloromethane	.3257
1,1-Dichloroethane	1.3812
Bromoform	.4236
1,1,2,2-Tetrachloroethane	.4111
Chlorobenzene	.9119

DAILY CALIBRATION CHECK FOR VOA II PASSED ALL CCC AND SPCC CRITERIA

THE RF AND RT VALUES WILL AUTOMATICALLY BE UPDATED IN YOUR IDFILE

06/13/94

009074

[RRT AND RF DAILY CALIBRATION GC/MS OPERATOR REPORT VOA'S]

DATA FILE NAME = >BC079::D3
DATE AND TIME OF ANALYSIS = 6/13/94 9:17
SAMPLE = SYSTEM #2 CAL. CHEC
MISCELLANEOUS = 06 13 94 50ug/L Daily CCC/ CC940103
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

Compound Name	Retention Times: RRT FOUND	RRT IN THE IDFILE	RT DIFF-ERENCE	Response factors: RF FOUND	AVE. RF FROM 5-POINT	RATIO RF FOUND TO RF IN IDFILE
Dichlorodifluoromethane	.48692	.48817	-.0552	.89231	.9869	.88533
Chloromethane	.34105	.33462	.02248	.32570	.3595	1.0431
Vinyl Chloride	.34105	.34159	-.0359	.31910	.4147	.88379
Bromomethane	.39750	.39509	-.0164	.78295	.7911	.83482
Chloroethane	.39750	.39742	-.0359	.29492	.3015	.82700
Trichlorofluoromethane	.43280	.43232	-.0358	2.2370	2.0613	.91085
Acrolein	.48692	.48817	-.0552	.04867	.0766	.83588
Acetone	.49870	.49982	-.0552	.12838	.1819	.92642
1,1-Dichloroethene	.51755	.51613	-.0357	1.6226	1.3922	1.1295
Trichlorotrifluoroethane	.00000	.49283	-4.122	.00000	2.3162	.00000
Methylene Chloride	.60934	.60919	-.0548	.84528	1.0182	.79105
Carbon Disulfide	.61640	.60919	.00367	.07693	1.8006	.97329
Methyl-t-Butyl Ether (MTBE)	.63289	.63479	-.0741	1.3330	2.3305	.91492
Acrylonitrile	.00000	.88136	-7.372	.00000	.0026	.00000
trans-1,2-Dichloroethene	.65879	.66273	-.0935	.97449	1.0411	.86049
Hexane	.00000	.87671	-7.333	.00000	.2500	.00000
1,1-Dichloroethane	.76231	.76507	-.0932	1.3812	1.6386	.90749
cis-1,2-Dichloroethene	.91293	.91392	-.0922	1.3981	1.1847	1.1004
Chloroform	.95294	.95347	-.0921	2.2828	2.5882	.92794
1,2-Dichloroethane	1.1835	1.1791	-.0720	1.4658	1.5639	.98520
Vinyl Acetate	.60480	.61064	-.0932	.24112	.3906	.75376
2-Butanone (MEK)	.69017	.69551	-.0924	.05065	.0792	1.0145
1,1,1-Trichloroethane	.83490	.83761	-.0723	.58335	.6219	1.0158
Carbon Tetrachloride	.88499	.88743	-.0721	.59788	.6331	.99776
Benzene	.92766	.92989	-.0720	.54306	.6336	.99150
Trichloroethene	1.0668	1.0664	-.0521	.45698	.5010	1.0055
1,2-Dichloropropane	1.1169	1.1144	-.0326	.19027	.2346	.97798
Bromodichloromethane	1.1744	1.1716	-.0325	.55413	.6019	.90645
1,4-Dioxane	1.1892	1.1864	-.0325	.00180	.0035	.99301
Dibromomethane	1.1874	1.1845	-.0325	.44642	.5215	.93275
Methyl methacrylate	1.1447	1.1421	-.0325	.15517	.2185	.97773
2-Chloroethyl vinyl ether	1.2652	1.2620	-.0326	.08692	.1510	1.0171
cis-1,3-Dichloropropene	1.3154	1.3119	-.0321	.35205	.4095	.97929
trans-1,3-Dichloropropene	1.4508	1.4447	-.0121	.33423	.4001	.99056
1,1,2-Trichloroethane	1.4860	1.4798	-.0120	.35578	.3166	1.3526
Dibromochloromethane	1.6159	1.6071	.00845	.65679	.7167	.93092
1,2-Dibromoethane	1.6660	1.6588	-.0107	.45009	.5533	.97059
Bromoform	2.0425	2.0314	.00947	.42355	.5501	.93297
4-Methyl-2-Pentanone	.71848	.71879	-.0131	.19269	.2887	.99774
Toluene	.78469	.78492	-.0124	.57410	.6530	1.0136
2-Hexanone	.84771	.84683	.00745	.12636	.1903	1.0174

Tetrachloroethene	.87608	.87622	-.0116	.58996	.6121	.97891
Chlorobenzene	1.0063	1.0053	.00924	.91194	1.0388	.97016
Ethylbenzene	1.0158	1.0158	-.0103	.38699	.4329	.99928
m & p-Xylene	1.0956	1.0945	.00933	.23458	.2622	.99138
[illegible] ylene	1.0956	1.0945	.00933	1.0578	1.1711	.98169
[illegible] zene	1.1050	1.1029	.02875	.80931	.9006	.97408
1,1,2,2-Tetrachloroethane	1.1911	1.1889	.02905	.41107	.5380	.91995
1,3-Dichlorobenzene	1.3727	1.3703	.03020	1.0107	1.0934	.97340
1,4-Dichlorobenzene	1.3906	1.3892	.01173	1.0730	1.1304	.99081
1,2-Dichlorobenzene	1.4410	1.4395	.01262	.93272	.9957	.96887
1,2-Dibromo-3-chloropropane	1.5397	1.5382	.01350	.13111	.1838	.94129
Divinylbenzene	1.5313	1.5298	.01350	.45121	.4307	.95235
Naphthalene	1.6542	1.6524	.01492	.96636	1.0420	.90610
.....					0.0000	.....
1,2-Dichloroethane-d4 (SURR)	1.1576	1.1512	-.0525	1.2460	1.2931	.95626
Toluene-d8 (SURR)	.77312	.77441	-.0319	1.0132	1.0467	.98335
Bromofluorobenzene (SURR)	1.1964	1.1952	.00962	.81339	1.1028	.98275

009076

Calibration Report

Title: SYSTEM #2: VOLATILE ORGANICS BY EPA METHODS 8240 & 624
Calibrated: 940316 00:28

Compound	Files: >B0064 RF 10.00	>B0065 RF 50.00	>B0066 RF 100.00	>B0067 RF 250.00	>B0068 RF 500.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CORR1	CORR2	
Dichlorodifluoromethane	.59469	.68772	.68433	.64611	.64755	.304	.65208	5.768	.999911	.999915	
Chloromethane	.23029	.39471	.30983	.32574	.33596	.336	.31931	18.540	.999420	.999532	
Vinyl Chloride	.35721	.39906	.44298	.47226	.48203	.343	.43071	12.127	.999906	.999940	
Bromomethane	.36520	.84453	.91061	.81842	.84832	.394	.75742	29.291	.999520	.999525	
Chloroethane	.19956	.29597	.31443	.29338	.33503	.397	.28767	18.083	.998088	.999592	
Trichlorofluoromethane	5.00499	3.39048	3.47239	3.58588	3.11097	.431	3.71294	20.018	.997128	.999453	
Acrolein	.04111	.02995	.03091	.03098	.02863	.488	.03232	15.491	.999182	.999863	(Conc=100.0,500.0,
Acetone	.26601	.17071	.17884	.16902	.15515	.500	.18795	23.658	.999053	.999908	(Conc=100.0,500.0,
1,1-Dichloroethene	.70625	.89529	.95813	.89701	.87067	.519	.86547	10.939	.999671	.999928	
Methylene Chloride	.81161	.79412	.81622	.74833	.76590	.612	.78724	3.731	.999785	.999812	
Carbon Disulfide	3.07029	2.23718	2.34267	2.37403	1.86546	.615	2.37792	18.367	.990697	.998487	(Conc=100.0,500.0,
Methyl-t-Butyl Ether (MTBE)	2.08761	2.54606	2.66012	2.35386	2.35719	.635	2.40097	9.090	.999608	.999650	
Acrylonitrile	.08992	.07453	.07979	.07745	.07253	.641	.07884	8.604	.999352	.999944	(Conc=100.0,500.0,
cis-1,2-Dichloroethene	.83656	.95247	.98947	.92579	.93040	.660	.92694	6.089	.999885	.999889	
Hexane	.97725	1.00081	1.00299	1.25529	1.06737	.657	1.06074	10.727	.995116	.998171	
1,1-Dichloroethane	2.25923	1.63569	1.69907	1.77308	1.73974	.762	1.82136	13.730	.999863	.999877	
trans-1,2-Dichloroethene	.92417	1.06134	1.15845	1.08694	1.09208	.914	1.06459	8.107	.999869	.999878	
Chloroform	4.05787	2.78088	2.87090	2.98866	2.91805	.955	3.12327	16.902	.999836	.999859	
1,2-Dichloroethane-d4 (SURR)	1.71455	1.68510	1.72624	1.69412	1.64292	1.155	1.69259	1.901	-	-	(Conc=50.0,50.0,50
1,2-Dichloroethane	2.64678	1.90025	2.00527	2.02648	1.97791	1.183	2.11134	14.356	.999878	.999920	
Vinyl Acetate	.21536	.19167	.20219	.20435	.19787	.605	.20229	4.334	.999828	.999955	(Conc=100.0,500.0,
Butanone (MEK)	.07934	.05851	.06137	.06093	.05750	.692	.06353	14.142	.999547	.999915	(Conc=100.0,500.0,
1,1,1-Trichloroethane	1.11000	.76257	.79289	.82308	.81569	.833	.86085	16.410	.999886	.999887	
Carbon Tetrachloride	1.01368	.70632	.74337	.76324	.77354	.884	.80003	15.269	.999874	.999928	
Benzene	.80173	.57800	.58510	.60883	.58767	.928	.63227	15.093	.999784	.999864	
Trichloroethene	.61831	.41944	.43521	.46218	.43975	1.066	.47498	17.174	.999542	.999733	
1,2-Dichloropropane	.30042	.21372	.21889	.22871	.22105	1.115	.23656	15.262	.999773	.999847	
Bromodichloromethane	.61380	.65122	.67922	.67154	.66379	1.174	.65591	3.920	.999961	.999993	
1,4-Dioxane	.00324	.00247	.00256	.00247	.00231	1.188	.00261	13.927	.999369	.999953	(Conc=500.0,2500.0
Dibromomethane	.34419	.39489	.41652	.38874	.39648	1.187	.38816	6.879	.999845	.999852	
2-Chloroethyl vinyl ether	.18702	.14223	.15277	.16077	.15267	1.265	.15909	10.650	.999513	.999784	
cis-1,3-Dichloropropene	.58599	.40637	.42201	.43995	.43528	1.314	.45792	15.892	.999878	.999878	
trans-1,3-Dichloropropene	.70181	.50200	.51587	.53788	.52243	1.447	.55600	14.843	.999813	.999862	
1,1,2-Trichloroethane	.43540	.29283	.31088	.30800	.29617	1.485	.32865	18.304	.999771	.999908	
Dibromochloromethane	.63534	.69451	.73732	.71523	.73126	1.613	.70273	5.857	.999924	.999950	
1,2-Dibromoethane	.38974	.48656	.50418	.46483	.48214	1.664	.46549	9.581	.999699	.999759	
Bromoform	.68200	.50769	.54849	.56702	.53624	2.041	.56829	11.812	.999481	.999814	

RF - Response Factor (Subscript is amount in ug/L)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CORRn - Coefficient of Correlation (nth degree)

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009077

9077

3-15-9

Calibration Report

Title: SYSTEM #2: VOLATILE ORGANICS BY EPA METHODS 8240 & 624
Calibrated: 940316 00:28

Compound	Files: >B0064 RF 10.00	>B0065 RF 50.00	>B0066 RF 100.00	>B0067 RF 250.00	>B0068 RF 500.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CORR1	CORR2	
4-Methyl-2-Pentanone	.31985	.23395	.24846	.30893	.22750	.719	.26774	16.221	.983175	.994527	(Conc=100.0,500.0,
Toluene-d8 (SURR)	1.07919	1.05613	1.06337	1.08965	1.06420	.773	1.07051	1.270	-	-	(Conc=50.0,50.0,50
Toluene	.97003	.65082	.64928	.67626	.63105	.784	.71549	20.014	.999352	.999756	
2-Hexanone	.20645	.15563	.16004	.15969	.14250	.847	.16486	14.748	.998211	.999785	(Conc=100.0,500.0,
Tetrachloroethene	.77196	.53315	.51942	.56932	.52118	.876	.58301	18.442	.998787	.999473	
Chlorobenzene	1.41357	.93457	.99232	1.04966	.94743	1.000	1.06751	18.607	.998408	.999526	
Ethylbenzene	.63706	.42038	.42658	.44344	.41410	1.016	.46831	20.278	.999348	.999752	
m & p-Xylene	.78073	.52729	.54666	.56301	.52144	1.027	.58783	18.557	.999180	.999758	(Conc=20.0,100.0,2
o-Xylene	1.81999	1.21835	1.27253	1.32343	1.25462	1.096	1.37778	18.151	.999544	.999784	
Styrene	1.23746	.84215	.90011	.92935	.83850	1.104	.94951	17.434	.998448	.999639	
1,1,2,2-Tetrachloroethane	.69475	.51071	.54458	.52890	.48070	1.190	.55193	15.092	.998706	.999876	
Bromofluorobenzene (SURR)	.79997	.88539	1.04359	1.38267	1.84005	1.195	1.19033	35.792	-	-	(Conc=50.0,50.0,50
1,3-Dichlorobenzene	1.44779	1.00168	1.02586	1.05689	.99704	1.372	1.10585	17.418	.999525	.999823	
1,4-Dichlorobenzene	1.52216	1.05967	1.10284	1.09645	1.03625	1.390	1.16347	17.392	.999588	.999905	
1,2-Dichlorobenzene	1.32660	.91864	.94472	.95656	.87783	1.441	1.00487	18.149	.999023	.999800	
1,2-Dibromo-3-chloropropane	.11084	.15817	.17157	.15869	.14840	1.539	.14953	15.479	.998952	.999945	
Naphthalene	.57396	1.01403	1.08017	.93662	.93798	1.653	.90855	21.609	.999337	.999450	

RF - Response Factor (Subscript is amount in ug/L)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CORRn - Coefficient of Correlation (nth degree)

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009078

9078

Title: SYSTEM #1: VOLATILE ORGANICS BY EPA METHODS 8240 & 624
Calibrated: 940602 08:34

Compound	Files: >B0871 RF 10.00	>B0872 RF 50.00	>B0873 RF 100.00	>B0874 RF 250.00	>B0875 RF 500.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CORR1	CORR2	
Dichlorodifluoromethane	1.43957	1.51921	1.02484	.98854	.91598	.478	1.17763	23.748	.998311	.998971	
Chloromethane	~~.17101~~	~~.20671~~	~~.20029~~	~~.19428~~	~~.18818~~	.327	~~.19209~~	~~7.108~~	.999805	.999984	*
Vinyl Chloride	.26377	.28896	.28176	.26059	.25951	.331	.27092	4.989	.999851	.999870	
Bromomethane	.56947	.67711	.69940	.55761	.40108	.385	.58094	20.423	.976711	.998601	
Chloroethane	.19769	.26879	.28093	.23046	.16429	.386	.22843	21.275	.975769	.998047	
Trichlorofluoromethane	2.37193	2.30721	2.30632	2.26397	1.17561	.421	2.08501	24.452	.904254	.916220	
Acrolein	.05820	.06808	.06737	.06578	.06167	.479	.06422	6.515	.999362	.999997	(Conc=100.0,500.0,
Acetone	.16665	.16226	.15034	.14332	.13450	.492	.15141	8.754	.999460	.999984	(Conc=100.0,500.0,
1,1-Dichloroethene	1.03892	1.19197	1.23297	1.23436	1.23652	.510	1.18695	7.144	.999997	.999998	
Trichlorotrifluoroethane	3.48455	3.53873	2.45333	2.35039	2.20441	.479	2.80628	23.170	.998703	.999128	
Methylene Chloride	.88534	.84373	.87330	.85331	.80857	.606	.85285	3.477	.999572	.999985	
Carbon Disulfide	1.54159	1.76489	1.79471	1.88975	1.66213	.606	1.73061	7.700	.997433	.999629	(Conc=5.00,25.0,50
Methyl-t-Butyl Ether (MTBE)	2.21635	2.35552	2.28154	2.24765	-	.626	2.27527	2.626	.999938	.999978	
Acrylonitrile	-	.00160	.00203	.00218	.00197	.876	.00195	12.477	.997547	.999974	(Conc=100.0,500.0,
trans-1,2-Dichloroethene	.75664	.89049	.92812	.93129	.93983	.651	.88927	8.605	.999994	.999996	
Hexane	.19170	-	.20670	.20561	.19062	.876	.19866	4.369	.999058	.999961	
1,1-Dichloroethane	1.49221	1.59671	1.53510	1.57685	1.50090	.757	1.54035	2.977	.999657	.999941	
cis-1,2-Dichloroethene	.88825	1.06124	1.07534	1.09714	1.09691	.912	1.04378	8.456	.999997	.999998	
Chloroform	2.54874	2.56339	2.49141	2.48370	2.42713	.953	2.50288	2.189	.999934	.999995	
1,2-Dichloroethane-d4 (SURR)	1.31391	1.36381	1.29689	1.27407	1.22425	1.158	1.29459	3.965	-	-	(Conc=50.0,50.0,50
1,2-Dichloroethane	1.43739	1.57085	1.49864	1.49288	1.39087	1.187	1.47813	4.602	.999304	.999964	
Vinyl Acetate	.35995	.39579	.38505	.39018	.26405	.599	.35900	15.270	.971688	.992183	(Conc=100.0,500.0,
2-Butanone (MEK)	.06279	.06734	.06123	.06238	.06019	.688	.06279	4.365	.999808	.999935	(Conc=100.0,500.0,
1,1-Trichloroethane	.57511	.60886	.59994	.62124	.60017	.830	.60107	2.813	.999816	.999950	
Carbon Tetrachloride	.56289	.62945	.63666	.66877	.65372	.882	.63030	6.451	.999883	.999946	
Benzene	.58109	.60743	.59343	.61874	.60098	.926	.60033	2.367	.999856	.999942	
Trichloroethene	.44519	.47754	.46396	.48017	.47067	1.067	.46751	2.990	.999925	.999965	
1,2-Dichloropropane	.20148	.22117	.22248	.22889	.22266	1.118	.21934	4.752	.999874	.999972	
Bromodichloromethane	.44868	.54143	.57357	.59773	.60873	1.177	.55403	11.607	.999964	.999989	
1,4-Dioxane	.00213	.00245	.00218	.00351	.00495	1.194	.00304	39.566	.953042	.991728	(Conc=500.0,2500.0
Dibromomethane	.48329	.51614	.51234	.51980	.50860	1.190	.50804	2.845	.999929	.999989	
Methyl methacrylate	.18149	.19410	.19256	.19395	.18663	1.148	.18974	2.916	.999791	.999986	
2-Chloroethyl vinyl ether	.12965	.15036	.14624	.14557	.14404	1.270	.14317	5.527	.999971	.999992	
cis-1,3-Dichloropropene	.35107	.43278	.40045	.41724	.41230	1.320	.40277	7.732	.999923	.999937	
trans-1,3-Dichloropropene	.32354	.39010	.38858	.40939	.39183	1.457	.38069	8.677	.999670	.999915	
1,1,2-Trichloroethane	.27230	.31124	.30176	.30070	.28473	1.494	.29414	5.264	.999571	.999983	
Dibromochloromethane	.46711	.63483	.69015	.73159	.72730	1.624	.65020	16.834	.999938	.999955	

RF - Response Factor (Subscript is amount in ug/L)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CORRn - Coefficient of Correlation (nth degree)

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* Chloromethane 5-point RFs retained from previous calibration of 3/16/94.

009079

9079

Title: SYSTEM #1: VOLATILE ORGANICS BY EPA METHODS 8240 & 624
Calibrated: 940602 08:34

Compound	Files: >B0871 RF 10.00	>B0872 RF 50.00	>B0873 RF 100.00	>B0874 RF 250.00	>B0875 RF 500.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CORR1	CORR2	
1,2-Dibromoethane	.46169	.54368	.52905	.53988	.51048	1.675	.51695	6.475	.999538	.999954	
Bromoform	.35121	.51004	.54335	.59896	.58988	2.057	.51869	19.338	.999830	.999873	
4-Methyl-2-Pentanone	.22818	.24720	.22962	.22758	.21711	.716	.22994	4.720	.999695	.999971	(Conc=100.0,500.0,
Toluene-d8 (SURR)	1.01612	1.02138	1.00695	1.01556	1.00619	.771	1.01324	.642	-	-	(Conc=50.0,50.0,50
Toluene	.63552	.59448	.56785	.59635	.58028	.782	.59490	4.284	.999861	.999913	
2-Hexanone	.14560	.15681	.14672	.14181	.13197	.847	.14458	6.204	.999269	.999982	(Conc=100.0,500.0,
Tetrachloroethene	.58910	.59282	.57762	.59410	.58113	.875	.58695	1.238	.999923	.999969	
Chlorobenzene	.89599	.95983	.91209	.93438	.92677	1.006	.92581	2.595	.999971	.999975	
Ethylbenzene	.40341	.40272	.40150	.39951	.39276	1.015	.39998	1.075	.999962	1.00000	
m & p-Xylene	.23222	.24542	.23121	.24486	.23709	1.096	.23816	2.835	.999801	.999893	(Conc=20.0,100.0,2
o-Xylene	1.05947	1.10630	1.06946	1.10260	1.06550	1.096	1.08067	2.040	.999828	.999953	
Styrene	.73504	.85145	.82029	.85412	.83618	1.104	.81942	5.989	.999906	.999955	
1,1,2,2-Tetrachloroethane	.45144	.49970	.48714	.48733	.43400	1.191	.47192	5.897	.998024	.999870	
Bromofluorobenzene (SURR)	.78330	.86283	.94607	1.21144	1.53096	1.196	1.06692	28.618	-	-	(Conc=50.0,50.0,50
1,3-Dichlorobenzene	.99878	1.05714	1.03454	1.05626	1.02042	1.374	1.03343	2.397	.999831	.999971	
1,4-Dichlorobenzene	1.04192	1.08405	1.05562	1.07969	1.02280	1.392	1.05682	2.433	.999594	.999944	
1,2-Dichlorobenzene	.91221	.95220	.93437	.97639	.88138	1.443	.93131	3.922	.998461	.999763	
1,2-Dibromo-3-chloropropane	.11171	.15536	.16489	.16369	.14936	1.542	.14900	14.624	.998581	.999952	
Divinylbenzene	.37557	.38298	.47625	.48016	.45114	1.534	.43322	11.670	.999097	.999804	
Naphthalene	1.01817	.82628	1.09431	1.02443	.97133	1.657	.98690	10.128	.998995	.999670	

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RF - Response Factor (Subscript is amount in ug/L)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CORRn - Coefficient of Correlation (nth degree)

Calibration Report

Title: SYSTEM #1: VOLATILE ORGANICS BY EPA METHODS 8240 & 624

Calibrated: 940428 15:06

Compound	Files: >V8636 RF 10.00	>V8637 RF 50.00	>V8638 RF 100.00	>V8639 RF 250.00	>V8640 RF 500.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CORR1	CORR2	
Dichlorodifluoromethane	1.30410	1.15673	1.02372	.90436	.96016	.600	1.06981	15.070	.999055	.999484	
Chloromethane	.54347	.44051	.38543	.41462	.41263	.307	.43933	13.974	.999795	.999810	
Vinyl Chloride	.61995	.52586	.46535	.41708	.39567	.301	.48478	18.696	.999527	.999874	
Bromomethane	.91340	.73190	.66010	.58600	.62939	.352	.70416	18.248	.998908	.999579	
Chloroethane	.32329	.23262	.24198	.21430	.18600	.373	.23964	21.453	.996882	.999927	
Trichlorofluoromethane	2.84009	2.61842	2.69384	2.21154	2.22166	.449	2.51711	11.350	.999143	.999181	
Acrolein	.07308	.07512	.07757	.08483	.09530	.467	.08118	11.154	.998437	.999980	(Conc=100.0,500.0,
Acetone	.17507	.14022	.13915	.14462	.14201	.503	.14821	10.225	.999915	.999927	(Conc=100.0,500.0,
1,1-Dichloroethene	1.50238	1.41939	1.16503	1.27278	1.35386	.547	1.34269	9.708	.999070	.999745	
Trichlorotrifluoroethane	2.55363	2.36544	2.15613	1.92083	2.09251	.599	2.21771	11.097	.998670	.999486	
Methylene Chloride	1.26709	.82035	.64324	.81768	.84830	.636	.87933	26.325	.998418	.998864	
Carbon Disulfide	2.57648	2.28389	1.93183	1.40217	2.10092	.581	2.05906	21.277	.982379	.995374	(Conc=5.00,25.0,50
Methyl-t-Butyl Ether (MTBE)	2.65787	2.57111	2.69259	2.14265	2.15306	.796	2.44345	11.192	.998753	.998836	
Acrylonitrile	.00578	.00541	.00563	.00301	.00240	.913	.00445	36.162	.965448	.993296	(Conc=100.0,500.0,
trans-1,2-Dichloroethene	1.10922	1.14704	1.09065	.93837	1.01178	.734	1.05941	7.905	.998765	.999231	
Hexane	1.61965	1.37136	1.32509	.97514	.93854	.914	1.24596	23.035	.997446	.998213	
1,1-Dichloroethane	2.03358	1.90997	1.87658	1.51835	1.55040	.801	1.77777	12.940	.998948	.998948	
cis-1,2-Dichloroethene	1.24877	1.26844	1.23056	1.22736	1.02774	.957	1.20057	8.163	.995196	.999551	
Chloroform	3.02232	2.78778	2.78736	2.73751	2.41969	1.024	2.75093	7.844	.997812	.999866	
1,2-Dichloroethane-d4 (SURR)	1.41857	1.48454	1.51362	1.72947	2.22828	1.161	1.67490	19.738	-1.0000	-	(Conc=50.0,50.0,50
?-Dichloroethane	1.72691	1.67735	1.72516	1.62810	1.60493	1.183	1.67249	3.315	.999902	.999953	
yl Acetate	.41357	.39887	.42829	.35596	.26729	.624	.37279	17.403	.983811	.999183	(Conc=100.0,500.0,
2-Butanone (MEK)	.10088	.09328	.09806	.06816	.04562	.672	.08120	29.233	.958538	.996716	(Conc=100.0,500.0,
1,1,1-Trichloroethane	.62475	.61431	.63709	.61277	.55653	.828	.60909	5.082	.998588	.999964	
Carbon Tetrachloride	.64312	.63609	.65455	.61640	.57979	.896	.62599	4.683	.999379	.999986	
Benzene	.74317	.70768	.72250	.67111	.58715	.894	.68632	8.94.	.997199	.999955	
Trichloroethene	.50164	.48624	.50386	.46057	.43669	1.073	.47780	6.017	.999413	.999936	
1,2-Dichloropropane	.28667	.26621	.27718	.26831	.24888	1.062	.26945	5.220	.999162	.999972	
Bromodichloromethane	.57615	.58355	.58501	.59843	.57982	1.107	.58459	1.448	.999853	.999970	
1,4-Dioxane	.00242	.00241	.00247	.00419	.00181	1.145	.00266	33.764	.795547	.942945	(Conc=500.0,2500.0
Dibromomethane	.43357	.41362	.44842	.40507	.39264	1.070	.41866	5.335	.999584	.999841	
Methyl methacrylate	.20465	.19653	.21104	.21236	.22170	1.173	.20926	4.475	.999782	.999977	
2-Chloroethyl vinyl ether	.14498	.14945	.16337	.16144	.16950	1.250	.15775	6.460	.999735	.999948	
cis-1,3-Dichloropropene	.40120	.41372	.44515	.44662	.44098	1.275	.42953	4.827	.999943	.999979	
trans-1,3-Dichloropropene	.35531	.35714	.38114	.38857	.38857	1.406	.37415	4.451	.999978	.999979	
1,1,2-Trichloroethane	.28899	.29479	.31675	.30848	.30158	1.425	.30212	3.629	.999868	.999975	
Dibromochloromethane	.54439	.59701	.61569	.65544	.65014	1.524	.61253	7.370	.999928	.999935	

RF - Response Factor (Subscript is amount in ug/L)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CORRn - Coefficient of Correlation (nth degree)

Calibration Report

Title: SYSTEM #1: VOLATILE ORGANICS BY EPA METHODS 8240 & 624
Calibrated: 940428 15:06

Compound	Files: >V8636 RF 10.00	>V8637 RF 50.00	>V8638 RF 100.00	>V8639 RF 250.00	>V8640 RF 500.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CORR1	CORR2	
1,2-Dibromoethane	.48052	.49212	.51859	.52728	.51194	1.568	.50609	3.812	.999843	.999969	
Bromoform	.44425	.48803	.53772	.52275	.34339	1.927	.46723	16.698	.965387	.989776	
4-Methyl-2-Pentanone	.22187	.21416	.22214	.22593	.22920	.744	.22266	2.527	.999967	.999992	(Conc=100.0,500.0,
Toluene-d8 (SURR)	1.00183	1.01725	.98654	1.00830	.99788	.782	1.00236	1.146	-	-	(Conc=50.0,50.0,50
Toluene	.69598	.63183	.63541	.62433	.60180	.793	.63787	5.489	.999830	.999995	
2-Hexanone	.13743	.13784	.14321	.14581	.11412	.873	.13568	9.263	.990009	.998525	(Conc=100.0,500.0,
Tetrachloroethene	.51558	.52050	.51086	.50138	.48244	.908	.50615	2.967	.999801	.999999	
Chlorobenzene	.98050	.96471	1.01337	.96864	.93259	1.005	.97196	3.000	.999728	.999978	
Ethylbenzene	.44940	.43968	.44547	.43271	.40610	1.051	.43467	3.950	.999421	.999992	
m & p-Xylene	.58943	.57053	.56750	.54611	.53334	1.071	.56138	3.910	.999908	.999991	(Conc=20.0,180.0,2
o-Xylene	1.31524	1.22467	1.22216	1.18705	1.13067	1.121	1.21596	5.529	.999686	.999998	
Styrene	.92469	.93190	.95589	.92032	.87876	1.116	.92231	3.031	.999658	.999994	
1,1,2,2-Tetrachloroethane	.52030	.51426	.52809	.52364	.53371	1.159	.52400	1.414	.999955	.999991	
Bromofluorobenzene (SURR)	.83268	.80725	.78957	.80594	.81699	1.180	.81049	1.955	-	-	(Conc=50.0,60.0,50
1,3-Dichlorobenzene	.87589	.90970	.95501	.95867	1.03588	1.316	.94703	6.368	.999333	.999972	
1,4-Dichlorobenzene	1.19548	1.16875	1.15562	1.13582	1.03588	1.324	1.13831	5.379	.998814	.999951	
1,2-Dichlorobenzene	1.00184	1.01891	1.04963	1.02465	1.02838	1.359	1.02468	1.684	.999984	.999984	
1,2-Dibromo-3-chloropropane	.16438	.18432	.19619	.20023	.21923	1.421	.19287	10.513	.999129	.999979	
Divinylbenzene	.40765	.43584	.46512	.49429	.52776	1.467	.46613	10.136	.999506	.999983	
Naphthalene	1.13517	1.18231	1.25930	1.30197	1.36374	1.554	1.24850	7.328	.999758	.999990	

RF - Response Factor (Subscript is amount in ug/L)

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$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

An - Coefficient of Correlation (nth degree)

009082

9082

WESTERN ATLAS

Core Laboratories

CORE LABORATORIES
A N A L Y T I C A L R E P O R T

Job Number: 942379
Prepared For:

JONES & NEUSE, INC.
MICHAEL WHITEHEAD
12655 N. CENTRAL EXPY.-SUITE 323
DALLAS, TX 75243

Date: 07/21/94

009083

Dana L. Harper
Signature

Date: 07/21/94

Name: DANA L. HARPER

Core Laboratories
3645 Beglis Parkway
Sulphur, LA 70663

Title: LABORATORY MANAGER

009083

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9083

WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942379 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-MW-03-78
DATE SAMPLED.....: 05/23/94
TIME SAMPLED.....: 09:35
WORK DESCRIPTION...: WELL MW-03

LABORATORY I.D...: 942379-0001
DATE RECEIVED....: 05/25/94
TIME RECEIVED....: 12:00
REMARKS.....:

009084

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Semi-volatile Organic Contaminants		*1		SW-846/8270	06/07/94	DFM
Acenaphthene	ND	10	ug/L	SW-846/8270		
Acenaphthylene	ND	10	ug/L	SW-846/8270		
Anthracene	ND	10	ug/L	SW-846/8270		
Benzo(a)anthracene	ND	10	ug/L	SW-846/8270		
Benzo(b)fluoranthene	ND	10	ug/L	SW-846/8270		
Benzo(k)fluoranthene	ND	10	ug/L	SW-846/8270		
Benzo(ghi)perylene	ND	10	ug/L	SW-846/8270		
Benzo(a)pyrene	ND	10	ug/L	SW-846/8270		
Bis(2-chloroethoxy)methane	ND	10	ug/L	SW-846/8270		
Bis(2-chloroethyl)ether	ND	10	ug/L	SW-846/8270		
Bis(2-chloroisopropyl)ether	ND	10	ug/L	SW-846/8270		
Bis(2-ethylhexyl) phthalate	ND	10	ug/L	SW-846/8270		
4-Bromophenyl phenyl ether	ND	10	ug/L	SW-846/8270		
Butyl benzyl phthalate	ND	10	ug/L	SW-846/8270		
Carbazole	ND	10	ug/L	SW-846/8270		
4-Chloroaniline	ND	10	ug/L	SW-846/8270		
4-Chloro-3-methylphenol	ND	10	ug/L	SW-846/8270		
2-Chloronaphthalene	ND	10	ug/L	SW-846/8270		
2-Chlorophenol	ND	10	ug/L	SW-846/8270		
4-Chlorophenyl phenyl ether	ND	10	ug/L	SW-846/8270		
Chrysene	ND	10	ug/L	SW-846/8270		
2-Methylphenol	ND	10	ug/L	SW-846/8270		
4-Methylphenol	ND	10	ug/L	SW-846/8270		
Dibenzo(a,h)anthracene	ND	10	ug/L	SW-846/8270		
Dibenzofuran	ND	10	ug/L	SW-846/8270		
Di-n-butyl phthalate	ND	10	ug/L	SW-846/8270		
1,2-Dichlorobenzene	ND	10	ug/L	SW-846/8270		
1,3-Dichlorobenzene	ND	10	ug/L	SW-846/8270		
1,4-Dichlorobenzene	ND	10	ug/L	SW-846/8270		
3,3'-Dichlorobenzidine	ND	10	ug/L	SW-846/8270		
2,4-Dichlorophenol	ND	10	ug/L	SW-846/8270		
Diethyl phthalate	ND	10	ug/L	SW-846/8270		
2,4-Dimethylphenol	ND	10	ug/L	SW-846/8270		
Dimethyl phthalate	ND	10	ug/L	SW-846/8270		
2,4-Dinitrophenol	ND	25	ug/L	SW-846/8270		
2,4-Dinitrotoluene	ND	10	ug/L	SW-846/8270		
2,6-Dinitrotoluene	ND	10	ug/L	SW-846/8270		
Di-n-octyl phthalate	ND	10	ug/L	SW-846/8270		
Fluoranthene	ND	10	ug/L	SW-846/8270		
Fluorene	ND	10	ug/L	SW-846/8270		
Hexachlorobenzene	ND	10	ug/L	SW-846/8270		
Hexachlorobutadiene	ND	10	ug/L	SW-846/8270		
Hexachlorocyclopentadiene	ND	10	ug/L	SW-846/8270		

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009084

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9084

WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942379 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-MW-03-78
DATE SAMPLED.....: 05/23/94
TIME SAMPLED.....: 09:35
WORK DESCRIPTION...: WELL MW-03

LABORATORY I.D...: 942379-0001
DATE RECEIVED....: 05/25/94
TIME RECEIVED....: 12:00
REMARKS.....:

009085

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Hexachloroethane	ND	10	ug/L	SW-846/8270		
Indenol(1,2,3-cd)pyrene	ND	10	ug/L	SW-846/8270		
Isophorone	ND	10	ug/L	SW-846/8270		
2-Methyl-4,6-dinitrophenol	ND	25	ug/L	SW-846/8270		
2-Methylnaphthalene	ND	10	ug/L	SW-846/8270		
Naphthalene	ND	10	ug/L	SW-846/8270		
2-Nitroaniline	ND	25	ug/L	SW-846/8270		
3-Nitroaniline	ND	25	ug/L	SW-846/8270		
4-Nitroaniline	ND	25	ug/L	SW-846/8270		
Nitrobenzene	ND	10	ug/L	SW-846/8270		
2-Nitrophenol	ND	10	ug/L	SW-846/8270		
4-Nitrophenol	ND	25	ug/L	SW-846/8270		
N-Nitrosodiphenylamine	ND	10	ug/L	SW-846/8270		
N-Nitrosodi-n-propylamine	ND	10	ug/L	SW-846/8270		
Pentachlorophenol	ND	25	ug/L	SW-846/8270		
Phenanthrene	ND	10	ug/L	SW-846/8270		
Phenol	ND	10	ug/L	SW-846/8270		
Pyrene	ND	10	ug/L	SW-846/8270		
1,2,4-Trichlorobenzene	ND	10	ug/L	SW-846/8270		
2,4,6-Trichlorophenol	ND	10	ug/L	SW-846/8270		
2,4,5-Trichlorophenol	ND	25	ug/L	SW-846/8270		
Semivolatile Organics Extraction	COMPLETE			SW-846 3510	05/26/94	CMG
Volatile Organic Contaminants		*1		SW-846/8240	05/26/94	MJH
Acetone	ND	10	ug/L	SW-846/8240		
Benzene	ND	10	ug/L	SW-846/8240		
Bromodichloromethane	ND	10	ug/L	SW-846/8240		
Bromoform	ND	10	ug/L	SW-846/8240		
Bromomethane	ND	10	ug/L	SW-846/8240		
2-Butanone (MEK)	ND	10	ug/L	SW-846/8240		
Carbon disulfide	ND	10	ug/L	SW-846/8240		
Carbon tetrachloride	ND	10	ug/L	SW-846/8240		
Chlorobenzene	ND	10	ug/L	SW-846/8240		
Chloroethane	ND	10	ug/L	SW-846/8240		
Chloroform	ND	10	ug/L	SW-846/8240		
Chloromethane	ND	10	ug/L	SW-846/8240		
Dibromochloromethane	ND	10	ug/L	SW-846/8240		
1,1-Dichloroethane	ND	10	ug/L	SW-846/8240		
1,2-Dichloroethane	ND	10	ug/L	SW-846/8240		
1,1-Dichloroethene	ND	10	ug/L	SW-846/8240		
1,2-Dichloroethene (Total)	ND	10	ug/L	SW-846/8240		
1,2-Dichloropropane	ND	10	ug/L	SW-846/8240		
cis-1,3-Dichloropropene	ND	10	ug/L	SW-846/8240		

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9085

WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942379 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-MW-03-78
DATE SAMPLED.....: 05/23/94
TIME SAMPLED.....: 09:35
WORK DESCRIPTION...: WELL MW-03

LABORATORY I.D...: 942379-0001
DATE RECEIVED....: 05/25/94
TIME RECEIVED....: 12:00
REMARKS.....:

009086

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
trans-1,3-Dichloropropene	ND	10	ug/L	SW-846/8240		
Ethylbenzene	ND	10	ug/L	SW-846/8240		
2-Hexanone	ND	10	ug/L	SW-846/8240		
Methylene chloride	ND	10	ug/L	SW-846/8240		
4-Methyl-2-pentanone	ND	10	ug/L	SW-846/8240		
Styrene	ND	10	ug/L	SW-846/8240		
1,1,2,2-Tetrachloroethane	ND	10	ug/L	SW-846/8240		
Tetrachloroethene	ND	10	ug/L	SW-846/8240		
Toluene	ND	10	ug/L	SW-846/8240		
1,1,1-Trichloroethane	ND	10	ug/L	SW-846/8240		
1,1,2-Trichloroethane	ND	10	ug/L	SW-846/8240		
Trichloroethene	ND	10	ug/L	SW-846/8240		
Total Xylenes	ND	10	ug/L	SW-846/8240		
Vinyl chloride	ND	10	ug/L	SW-846/8240		

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9086

WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942379 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-MW-12-79
DATE SAMPLED.....: 05/23/94
TIME SAMPLED.....: 10:10
WORK DESCRIPTION...: WELL MW-12

LABORATORY I.D...: 942379-0002
DATE RECEIVED....: 05/25/94
TIME RECEIVED....: 12:00
REMARKS.....:

009087

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Semi-volatile Organic Contaminants		*1		SW-846/8270	06/07/94	DFM
Acenaphthene	ND	10	ug/L	SW-846/8270		
Acenaphthylene	ND	10	ug/L	SW-846/8270		
Anthracene	ND	10	ug/L	SW-846/8270		
Benzo(a)anthracene	ND	10	ug/L	SW-846/8270		
Benzo(b)fluoranthene	ND	10	ug/L	SW-846/8270		
Benzo(k)fluoranthene	ND	10	ug/L	SW-846/8270		
Benzo(ghi)perylene	ND	10	ug/L	SW-846/8270		
Benzo(a)pyrene	ND	10	ug/L	SW-846/8270		
Bis(2-chloroethoxy)methane	ND	10	ug/L	SW-846/8270		
Bis(2-chloroethyl)ether	ND	10	ug/L	SW-846/8270		
Bis(2-chloroisopropyl)ether	ND	10	ug/L	SW-846/8270		
Bis(2-ethylhexyl) phthalate	ND	10	ug/L	SW-846/8270		
4-Bromophenyl phenyl ether	ND	10	ug/L	SW-846/8270		
Butyl benzyl phthalate	ND	10	ug/L	SW-846/8270		
Carbazole	ND	10	ug/L	SW-846/8270		
4-Chloroaniline	ND	10	ug/L	SW-846/8270		
4-Chloro-3-methylphenol	ND	10	ug/L	SW-846/8270		
2-Chloronaphthalene	ND	10	ug/L	SW-846/8270		
2-Chlorophenol	ND	10	ug/L	SW-846/8270		
4-Chlorophenyl phenyl ether	ND	10	ug/L	SW-846/8270		
Chrysene	ND	10	ug/L	SW-846/8270		
2-Methylphenol	ND	10	ug/L	SW-846/8270		
4-Methylphenol	ND	10	ug/L	SW-846/8270		
Dibenzo(a,h)anthracene	ND	10	ug/L	SW-846/8270		
Dibenzofuran	ND	10	ug/L	SW-846/8270		
Di-n-butyl phthalate	ND	10	ug/L	SW-846/8270		
1,2-Dichlorobenzene	ND	10	ug/L	SW-846/8270		
1,3-Dichlorobenzene	ND	10	ug/L	SW-846/8270		
1,4-Dichlorobenzene	ND	10	ug/L	SW-846/8270		
3,3'-Dichlorobenzidine	ND	10	ug/L	SW-846/8270		
2,4-Dichlorophenol	ND	10	ug/L	SW-846/8270		
Diethyl phthalate	ND	10	ug/L	SW-846/8270		
2,4-Dimethylphenol	ND	10	ug/L	SW-846/8270		
Dimethyl phthalate	ND	10	ug/L	SW-846/8270		
2,4-Dinitrophenol	ND	25	ug/L	SW-846/8270		
2,4-Dinitrotoluene	ND	10	ug/L	SW-846/8270		
2,6-Dinitrotoluene	ND	10	ug/L	SW-846/8270		
Di-n-octyl phthalate	ND	10	ug/L	SW-846/8270		
Fluoranthene	ND	10	ug/L	SW-846/8270		
Fluorene	ND	10	ug/L	SW-846/8270		
Hexachlorobenzene	ND	10	ug/L	SW-846/8270		
Hexachlorobutadiene	ND	10	ug/L	SW-846/8270		
Hexachlorocyclopentadiene	ND	10	ug/L	SW-846/8270		

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9087

WESTERN ATLAS

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LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942379 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-MW-12-79
DATE SAMPLED.....: 05/23/94
TIME SAMPLED.....: 10:10
WORK DESCRIPTION...: WELL MW-12

LABORATORY I.D...: 942379-0002
DATE RECEIVED....: 05/25/94
TIME RECEIVED....: 12:00
REMARKS.....:

009088

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Hexachloroethane	ND	10	ug/L	SW-846/8270		
Indenol(1,2,3-cd)pyrene	ND	10	ug/L	SW-846/8270		
Isophorone	ND	10	ug/L	SW-846/8270		
2-Methyl-4,6-dinitrophenol	ND	25	ug/L	SW-846/8270		
2-Methylnaphthalene	ND	10	ug/L	SW-846/8270		
Naphthalene	ND	10	ug/L	SW-846/8270		
2-Nitroaniline	ND	25	ug/L	SW-846/8270		
3-Nitroaniline	ND	25	ug/L	SW-846/8270		
4-Nitroaniline	ND	25	ug/L	SW-846/8270		
Nitrobenzene	ND	10	ug/L	SW-846/8270		
2-Nitrophenol	ND	10	ug/L	SW-846/8270		
4-Nitrophenol	ND	25	ug/L	SW-846/8270		
N-Nitrosodiphenylamine	ND	10	ug/L	SW-846/8270		
N-Nitrosodi-n-propylamine	ND	10	ug/L	SW-846/8270		
Pentachlorophenol	ND	25	ug/L	SW-846/8270		
Phenanthrene	ND	10	ug/L	SW-846/8270		
Phenol	ND	10	ug/L	SW-846/8270		
Pyrene	ND	10	ug/L	SW-846/8270		
1,2,4-Trichlorobenzene	ND	10	ug/L	SW-846/8270		
2,4,6-Trichlorophenol	ND	10	ug/L	SW-846/8270		
2,4,5-Trichlorophenol	ND	25	ug/L	SW-846/8270		
Semivolatile Organics Extraction	COMPLETE			SW-846 3510	05/26/94	CMG

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9088

WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942379 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SW-05-80
DATE SAMPLED.....: 05/23/94
TIME SAMPLED.....: 11:40
WORK DESCRIPTION...: SW-05,FISH TRAP LAKE

LABORATORY I.D...: 942379-0003
DATE RECEIVED....: 05/25/94
TIME RECEIVED....: 12:00
REMARKS.....:

009089

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Semi-volatile Organic Contaminants		*1		SW-846/8270	06/07/94	DFM
Acenaphthene	ND	10	ug/L	SW-846/8270		
Acenaphthylene	ND	10	ug/L	SW-846/8270		
Anthracene	ND	10	ug/L	SW-846/8270		
Benzo(a)anthracene	ND	10	ug/L	SW-846/8270		
Benzo(b)fluoranthene	ND	10	ug/L	SW-846/8270		
Benzo(k)fluoranthene	ND	10	ug/L	SW-846/8270		
Benzo(ghi)perylene	ND	10	ug/L	SW-846/8270		
Benzo(a)pyrene	ND	10	ug/L	SW-846/8270		
Bis(2-chloroethoxy)methane	ND	10	ug/L	SW-846/8270		
Bis(2-chloroethyl)ether	ND	10	ug/L	SW-846/8270		
Bis(2-chloroisopropyl)ether	ND	10	ug/L	SW-846/8270		
Bis(2-ethylhexyl) phthalate	ND	10	ug/L	SW-846/8270		
4-Bromophenyl phenyl ether	ND	10	ug/L	SW-846/8270		
Butyl benzyl phthalate	ND	10	ug/L	SW-846/8270		
Carbazole	ND	10	ug/L	SW-846/8270		
4-Chloroaniline	ND	10	ug/L	SW-846/8270		
4-Chloro-3-methylphenol	ND	10	ug/L	SW-846/8270		
2-Chloronaphthalene	ND	10	ug/L	SW-846/8270		
2-Chlorophenol	ND	10	ug/L	SW-846/8270		
4-Chlorophenyl phenyl ether	ND	10	ug/L	SW-846/8270		
Chrysene	ND	10	ug/L	SW-846/8270		
2-Methylphenol	ND	10	ug/L	SW-846/8270		
4-Methylphenol	ND	10	ug/L	SW-846/8270		
Dibenzo(a,h)anthracene	ND	10	ug/L	SW-846/8270		
Dibenzofuran	ND	10	ug/L	SW-846/8270		
Di-n-butyl phthalate	ND	10	ug/L	SW-846/8270		
1,2-Dichlorobenzene	ND	10	ug/L	SW-846/8270		
1,3-Dichlorobenzene	ND	10	ug/L	SW-846/8270		
1,4-Dichlorobenzene	ND	10	ug/L	SW-846/8270		
3,3'-Dichlorobenzidine	ND	10	ug/L	SW-846/8270		
2,4-Dichlorophenol	ND	10	ug/L	SW-846/8270		
Diethyl phthalate	ND	10	ug/L	SW-846/8270		
2,4-Dimethylphenol	ND	10	ug/L	SW-846/8270		
Dimethyl phthalate	ND	10	ug/L	SW-846/8270		
2,4-Dinitrophenol	ND	25	ug/L	SW-846/8270		
2,4-Dinitrotoluene	ND	10	ug/L	SW-846/8270		
2,6-Dinitrotoluene	ND	10	ug/L	SW-846/8270		
Di-n-octyl phthalate	ND	10	ug/L	SW-846/8270		
Fluoranthene	ND	10	ug/L	SW-846/8270		
Fluorene	ND	10	ug/L	SW-846/8270		
Hexachlorobenzene	ND	10	ug/L	SW-846/8270		
Hexachlorobutadiene	ND	10	ug/L	SW-846/8270		
Hexachlorocyclopentadiene	ND	10	ug/L	SW-846/8270		

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9089

WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942379 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SW-05-80
DATE SAMPLED.....: 05/23/94
TIME SAMPLED.....: 11:40
WORK DESCRIPTION...: SW-05,FISH TRAP LAKE

LABORATORY I.D...: 942379-0003
DATE RECEIVED....: 05/25/94
TIME RECEIVED....: 12:00
REMARKS.....:

009090

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Hexachloroethane	ND	10	ug/L	SW-846/8270		
Indenol(1,2,3-cd)pyrene	ND	10	ug/L	SW-846/8270		
Isophorone	ND	10	ug/L	SW-846/8270		
2-Methyl-4,6-dinitrophenol	ND	25	ug/L	SW-846/8270		
2-Methylnaphthalene	ND	10	ug/L	SW-846/8270		
Naphthalene	ND	10	ug/L	SW-846/8270		
2-Nitroaniline	ND	25	ug/L	SW-846/8270		
3-Nitroaniline	ND	25	ug/L	SW-846/8270		
4-Nitroaniline	ND	25	ug/L	SW-846/8270		
Nitrobenzene	ND	10	ug/L	SW-846/8270		
2-Nitrophenol	ND	10	ug/L	SW-846/8270		
4-Nitrophenol	ND	25	ug/L	SW-846/8270		
N-Nitrosodiphenylamine	ND	10	ug/L	SW-846/8270		
N-Nitrosodi-n-propylamine	ND	10	ug/L	SW-846/8270		
Pentachlorophenol	ND	25	ug/L	SW-846/8270		
Phenanthrene	ND	10	ug/L	SW-846/8270		
Phenol	ND	10	ug/L	SW-846/8270		
Pyrene	ND	10	ug/L	SW-846/8270		
1,2,4-Trichlorobenzene	ND	10	ug/L	SW-846/8270		
2,4,6-Trichlorophenol	ND	10	ug/L	SW-846/8270		
2,4,5-Trichlorophenol	ND	25	ug/L	SW-846/8270		
Semivolatile Organics Extraction	COMPLETE			SW-846 3510	05/26/94	CMG
Volatile Organic Contaminants		*1		SW-846/8240	05/26/94	MJH
Acetone	83	10	ug/L	SW-846/8240		
Benzene	ND	10	ug/L	SW-846/8240		
Bromodichloromethane	ND	10	ug/L	SW-846/8240		
Bromoform	ND	10	ug/L	SW-846/8240		
Bromomethane	ND	10	ug/L	SW-846/8240		
2-Butanone (MEK)	38	10	ug/L	SW-846/8240		
Carbon disulfide	ND	10	ug/L	SW-846/8240		
Carbon tetrachloride	ND	10	ug/L	SW-846/8240		
Chlorobenzene	ND	10	ug/L	SW-846/8240		
Chloroethane	ND	10	ug/L	SW-846/8240		
Chloroform	ND	10	ug/L	SW-846/8240		
Chloromethane	ND	10	ug/L	SW-846/8240		
Dibromochloromethane	ND	10	ug/L	SW-846/8240		
1,1-Dichloroethane	ND	10	ug/L	SW-846/8240		
1,2-Dichloroethane	ND	10	ug/L	SW-846/8240		
1,1-Dichloroethene	ND	10	ug/L	SW-846/8240		
1,2-Dichloroethene (Total)	ND	10	ug/L	SW-846/8240		
1,2-Dichloropropane	ND	10	ug/L	SW-846/8240		
cis-1,3-Dichloropropene	ND	10	ug/L	SW-846/8240		

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9090

WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942379 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SW-05-80
DATE SAMPLED.....: 05/23/94
TIME SAMPLED.....: 11:40
WORK DESCRIPTION...: SW-05,FISH TRAP LAKE

LABORATORY I.D...: 942379-0003
DATE RECEIVED....: 05/25/94
TIME RECEIVED....: 12:00
REMARKS.....:

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
trans-1,3-Dichloropropene	ND	10	ug/L	SW-846/8240		
Ethylbenzene	ND	10	ug/L	SW-846/8240		
2-Hexanone	ND	10	ug/L	SW-846/8240		
Methylene chloride	ND	10	ug/L	SW-846/8240		
4-Methyl-2-pentanone	ND	10	ug/L	SW-846/8240		
Styrene	ND	10	ug/L	SW-846/8240		
1,1,2,2-Tetrachloroethane	ND	10	ug/L	SW-846/8240		
Tetrachloroethene	ND	10	ug/L	SW-846/8240		
Toluene	ND	10	ug/L	SW-846/8240		
1,1,1-Trichloroethane	ND	10	ug/L	SW-846/8240		
1,1,2-Trichloroethane	ND	10	ug/L	SW-846/8240		
Trichloroethene	ND	10	ug/L	SW-846/8240		
Total Xylenes	ND	10	ug/L	SW-846/8240		
Vinyl chloride	ND	10	ug/L	SW-846/8240		

009091

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009091

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9091

WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942379 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SD-05-81
DATE SAMPLED.....: 05/23/94
TIME SAMPLED.....: 11:55
WORK DESCRIPTION...: FISH TRAP LAKE 0-6"

LABORATORY I.D...: 942379-0004
DATE RECEIVED....: 05/25/94
TIME RECEIVED....: 12:00
REMARKS.....:

009092

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
Semi-volatile Organic Contaminants		*33		SW-846/8270	06/08/94	DFM
Acenaphthene	ND	330	ug/kg	SW-846/8270		
Acenaphthylene	ND	330	ug/kg	SW-846/8270		
Anthracene	ND	330	ug/kg	SW-846/8270		
Benzo(a)anthracene	ND	330	ug/kg	SW-846/8270		
Benzo(b)fluoranthene	ND	330	ug/kg	SW-846/8270		
Benzo(k)fluoranthene	ND	330	ug/kg	SW-846/8270		
Benzo(ghi)perylene	ND	330	ug/kg	SW-846/8270		
Benzo(a)pyrene	ND	330	ug/kg	SW-846/8270		
Bis(2-chloroethoxy)methane	ND	330	ug/kg	SW-846/8270		
Bis(2-chloroethyl)ether	ND	330	ug/kg	SW-846/8270		
Bis(2-chloroisopropyl)ether	ND	330	ug/kg	SW-846/8270		
Bis(2-ethylhexyl) phthalate	ND	330	ug/kg	SW-846/8270		
4-Bromophenyl phenyl ether	ND	330	ug/kg	SW-846/8270		
Butyl benzyl phthalate	ND	330	ug/kg	SW-846/8270		
Carbazole	ND	330	ug/kg	SW-846/8270		
4-Chloroaniline	ND	330	ug/kg	SW-846/8270		
4-Chloro-3-methylphenol	ND	330	ug/kg	SW-846/8270		
2-Chloronaphthalene	ND	330	ug/kg	SW-846/8270		
2-Chlorophenol	ND	330	ug/kg	SW-846/8270		
4-Chlorophenyl phenyl ether	ND	330	ug/kg	SW-846/8270		
Chrysene	ND	330	ug/kg	SW-846/8270		
2-Methylphenol	ND	330	ug/kg	SW-846/8270		
4-Methylphenol	ND	330	ug/kg	SW-846/8270		
Dibenzo(a,h)anthracene	ND	330	ug/kg	SW-846/8270		
Dibenzofuran	ND	330	ug/kg	SW-846/8270		
Di-n-butyl phthalate	ND	330	ug/kg	SW-846/8270		
1,2-Dichlorobenzene	ND	330	ug/kg	SW-846/8270		
1,3-Dichlorobenzene	ND	330	ug/kg	SW-846/8270		
1,4-Dichlorobenzene	ND	330	ug/kg	SW-846/8270		
3,3'-Dichlorobenzidine	ND	330	ug/kg	SW-846/8270		
2,4-Dichlorophenol	ND	330	ug/kg	SW-846/8270		
Diethyl phthalate	ND	330	ug/kg	SW-846/8270		
2,4-Dimethylphenol	ND	330	ug/kg	SW-846/8270		
Dimethyl phthalate	ND	330	ug/kg	SW-846/8270		
2,4-Dinitrophenol	ND	825	ug/kg	SW-846/8270		
2,4-Dinitrotoluene	ND	330	ug/kg	SW-846/8270		
2,6-Dinitrotoluene	ND	330	ug/kg	SW-846/8270		
Di-n-octyl phthalate	ND	330	ug/kg	SW-846/8270		
Fluoranthene	ND	330	ug/kg	SW-846/8270		
Fluorene	ND	330	ug/kg	SW-846/8270		
Hexachlorobenzene	ND	330	ug/kg	SW-846/8270		
Hexachlorobutadiene	ND	330	ug/kg	SW-846/8270		
Hexachlorocyclopentadiene	ND	330	ug/kg	SW-846/8270		

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9092

WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942379 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SD-05-81
DATE SAMPLED.....: 05/23/94
TIME SAMPLED.....: 11:55
WORK DESCRIPTION...: FISH TRAP LAKE 0-6"

LABORATORY I.D...: 942379-0004
DATE RECEIVED....: 05/25/94
TIME RECEIVED....: 12:00
REMARKS.....:

009093

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECH
Hexachloroethane	ND	330	ug/kg	SW-846/8270		
Indenol(1,2,3-cd)pyrene	ND	330	ug/kg	SW-846/8270		
Isophorone	ND	330	ug/kg	SW-846/8270		
2-Methyl-4,6-dinitrophenol	ND	825	ug/kg	SW-846/8270		
2-Methylnaphthalene	ND	330	ug/kg	SW-846/8270		
Naphthalene	ND	330	ug/kg	SW-846/8270		
2-Nitroaniline	ND	825	ug/kg	SW-846/8270		
3-Nitroaniline	ND	825	ug/kg	SW-846/8270		
4-Nitroaniline	ND	825	ug/kg	SW-846/8270		
Nitrobenzene	ND	330	ug/kg	SW-846/8270		
2-Nitrophenol	ND	330	ug/kg	SW-846/8270		
4-Nitrophenol	ND	825	ug/kg	SW-846/8270		
N-Nitrosodiphenylamine	ND	330	ug/kg	SW-846/8270		
N-Nitrosodi-n-propylamine	ND	330	ug/kg	SW-846/8270		
Pentachlorophenol	ND	825	ug/kg	SW-846/8270		
Phenanthrene	ND	330	ug/kg	SW-846/8270		
Phenol	ND	330	ug/kg	SW-846/8270		
Pyrene	ND	330	ug/kg	SW-846/8270		
1,2,4-Trichlorobenzene	ND	330	ug/kg	SW-846/8270		
2,4,6-Trichlorophenol	ND	330	ug/kg	SW-846/8270		
2,4,5-Trichlorophenol	ND	825	ug/kg	SW-846/8270		
Semivolatile Organics Extraction	COMPLETE			SW-846 3550	06/02/94	CMG
Volatile Organic Contaminants		*1		SW-846/8240	05/31/94	MJH
Acetone	31	10	ug/kg	SW-846/8240		
Benzene	ND	10	ug/kg	SW-846/8240		
Bromodichloromethane	ND	10	ug/kg	SW-846/8240		
Bromoform	ND	10	ug/kg	SW-846/8240		
Bromomethane	ND	10	ug/kg	SW-846/8240		
2-Butanone (MEK)	ND	10	ug/kg	SW-846/8240		
Carbon disulfide	ND	10	ug/kg	SW-846/8240		
Carbon tetrachloride	ND	10	ug/kg	SW-846/8240		
Chlorobenzene	ND	10	ug/kg	SW-846/8240		
Chloroethane	ND	10	ug/kg	SW-846/8240		
Chloroform	ND	10	ug/kg	SW-846/8240		
Chloromethane	ND	10	ug/kg	SW-846/8240		
Dibromochloromethane	ND	10	ug/kg	SW-846/8240		
1,1-Dichloroethane	ND	10	ug/kg	SW-846/8240		
1,2-Dichloroethane	ND	10	ug/kg	SW-846/8240		
1,1-Dichloroethene	ND	10	ug/kg	SW-846/8240		
1,2-Dichloroethene (Total)	ND	10	ug/kg	SW-846/8240		
1,2-Dichloropropane	ND	10	ug/kg	SW-846/8240		
cis-1,3-Dichloropropene	ND	10	ug/kg	SW-846/8240		

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009093

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9093

WESTERN ATLAS

Core Laboratories

LABORATORY TESTS RESULTS
07/21/94

JOB NUMBER: 942379 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-SD-05-81
DATE SAMPLED.....: 05/23/94
TIME SAMPLED.....: 11:55
WORK DESCRIPTION...: FISH TRAP LAKE 0-6"

LABORATORY I.D...: 942379-0004
DATE RECEIVED....: 05/25/94
TIME RECEIVED....: 12:00
REMARKS.....:

009094

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECH
trans-1,3-Dichloropropene	ND	10	ug/kg	SW-846/8240		
Ethylbenzene	ND	10	ug/kg	SW-846/8240		
2-Hexanone	ND	10	ug/kg	SW-846/8240		
Methylene chloride	ND	10	ug/kg	SW-846/8240		
4-Methyl-2-pentanone	ND	10	ug/kg	SW-846/8240		
Styrene	ND	10	ug/kg	SW-846/8240		
1,1,2,2-Tetrachloroethane	ND	10	ug/kg	SW-846/8240		
Tetrachloroethene	ND	10	ug/kg	SW-846/8240		
Toluene	ND	10	ug/kg	SW-846/8240		
1,1,1-Trichloroethane	ND	10	ug/kg	SW-846/8240		
1,1,2-Trichloroethane	ND	10	ug/kg	SW-846/8240		
Trichloroethene	ND	10	ug/kg	SW-846/8240		
Total Xylenes	ND	10	ug/kg	SW-846/8240		
Vinyl chloride	ND	10	ug/kg	SW-846/8240		

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9094

WESTERN ATLAS

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LABORATORY TESTS RESULTS

07/21/94

JOB NUMBER: 942379 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

CLIENT I.D.....: RI-TB-03-87
DATE SAMPLED.....: 05/23/94
TIME SAMPLED.....: 17:35
WORK DESCRIPTION...: TRIP BLANK

LABORATORY I.D...: 942379-0005
DATE RECEIVED....: 05/25/94
TIME RECEIVED....: 12:00
REMARKS.....:

009095

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECH
Volatile Organic Contaminants		*1		SW-846/8240	05/26/94	MJH
Acetone	94	10	ug/L	SW-846/8240		
Benzene	ND	10	ug/L	SW-846/8240		
Bromodichloromethane	ND	10	ug/L	SW-846/8240		
Bromoform	ND	10	ug/L	SW-846/8240		
Bromomethane	ND	10	ug/L	SW-846/8240		
2-Butanone (MEK)	41	10	ug/L	SW-846/8240		
Carbon disulfide	ND	10	ug/L	SW-846/8240		
Carbon tetrachloride	ND	10	ug/L	SW-846/8240		
Chlorobenzene	ND	10	ug/L	SW-846/8240		
Chloroethane	ND	10	ug/L	SW-846/8240		
Chloroform	ND	10	ug/L	SW-846/8240		
Chloromethane	ND	10	ug/L	SW-846/8240		
Dibromochloromethane	ND	10	ug/L	SW-846/8240		
1,1-Dichloroethane	ND	10	ug/L	SW-846/8240		
1,2-Dichloroethane	ND	10	ug/L	SW-846/8240		
1,1-Dichloroethene	ND	10	ug/L	SW-846/8240		
1,2-Dichloroethene (Total)	ND	10	ug/L	SW-846/8240		
1,2-Dichloropropane	ND	10	ug/L	SW-846/8240		
cis-1,3-Dichloropropene	ND	10	ug/L	SW-846/8240		
trans-1,3-Dichloropropene	ND	10	ug/L	SW-846/8240		
Ethylbenzene	ND	10	ug/L	SW-846/8240		
2-Hexanone	ND	10	ug/L	SW-846/8240		
Methylene chloride	ND	10	ug/L	SW-846/8240		
4-Methyl-2-pentanone	ND	10	ug/L	SW-846/8240		
Styrene	ND	10	ug/L	SW-846/8240		
1,1,2,2-Tetrachloroethane	ND	10	ug/L	SW-846/8240		
Tetrachloroethene	ND	10	ug/L	SW-846/8240		
Toluene	ND	10	ug/L	SW-846/8240		
1,1,1-Trichloroethane	ND	10	ug/L	SW-846/8240		
1,1,2-Trichloroethane	ND	10	ug/L	SW-846/8240		
Trichloroethene	ND	10	ug/L	SW-846/8240		
Total Xylenes	ND	10	ug/L	SW-846/8240		
Vinyl chloride	ND	10	ug/L	SW-846/8240		

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009095

9095

WESTERN ATLAS

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QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942379 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Volatile Organic Contaminants DATE ANALYZED: 05/26/94 TIME ANALYZED: 16:06 METHOD: SW-846/8240 QC NUMBER:978740

BLANKS

TEST DESCRIPTION	ANALY SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Benzene	IB	GCMS052694	1	<10	10	ug/L
1,1-Dichloroethene	IB	GCMS052694	1	<10	10	ug/L
Trichloroethene	IB	GCMS052694	1	<10	10	ug/L
Toluene	IB	GCMS052694	1	<10	10	ug/L
Chlorobenzene	IB	GCMS052694	1	<10	10	ug/L
Acetone	IB	GCMS052694	1	<10	10	ug/L
Bromodichloromethane	IB	GCMS052694	1	<10	10	ug/L
Bromoform	IB	GCMS052694	1	<10	10	ug/L
Bromomethane	IB	GCMS052694	1	<10	10	ug/L
2-Butanone (MEK)	IB	GCMS052694	1	<10	10	ug/L
Carbon disulfide	IB	GCMS052694	1	<10	10	ug/L
Carbon tetrachloride	IB	GCMS052694	1	<10	10	ug/L
Chloroethane	IB	GCMS052694	1	<10	10	ug/L
Chloroform	IB	GCMS052694	1	<10	10	ug/L
Chloromethane	IB	GCMS052694	1	<10	10	ug/L
Dibromochloromethane	IB	GCMS052694	1	<10	10	ug/L
-Dichloroethane	IB	GCMS052694	1	<10	10	ug/L
-Dichloroethane	IB	GCMS052694	1	<10	10	ug/L
1,2-Dichloroethene (Total)	IB	GCMS052694	1	<10	10	ug/L
1,2-Dichloropropane	IB	GCMS052694	1	<10	10	ug/L
cis-1,3-Dichloropropene	IB	GCMS052694	1	<10	10	ug/L
trans-1,3-Dichloropropene	IB	GCMS052694	1	<10	10	ug/L
Ethylbenzene	IB	GCMS052694	1	<10	10	ug/L
2-Hexanone	IB	GCMS052694	1	<10	10	ug/L
Methylene chloride	IB	GCMS052694	1	<10	10	ug/L
4-Methyl-2-pentanone	IB	GCMS052694	1	<10	10	ug/L
Styrene	IB	GCMS052694	1	<10	10	ug/L
1,1,2,2-Tetrachloroethane	IB	GCMS052694	1	<10	10	ug/L
Tetrachloroethene	IB	GCMS052694	1	<10	10	ug/L
1,1,1-Trichloroethane	IB	GCMS052694	1	<10	10	ug/L
1,1,2-Trichloroethane	IB	GCMS052694	1	<10	10	ug/L
Total Xylenes	IB	GCMS052694	1	<10	10	ug/L
Vinyl chloride	IB	GCMS052694	1	<10	10	ug/L

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009096

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QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942379 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Volatile Organic Contaminants DATE ANALYZED: 05/26/94 TIME ANALYZED: 16:06 METHOD: SW-846/8240 QC NUMBER:978740

REFERENCE STANDARDS

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	TRUE VALUE	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
1,2-Dichloroethane-d4	SS	942379-01	1	45	50	90	10	ug/L
	SS	942379-03	1	46	50	92	10	ug/L
	SS	942379-05	1	49	50	98	10	ug/L
Toluene-d8	SS	942379-01	1	50	50	100	10	ug/L
	SS	942379-03	1	51	50	102	10	ug/L
	SS	942679-05	1	51	50	102	10	ug/L
Bromofluorobenzene	SS	942379-01	1	45	50	90	10	ug/L
	SS	942379-03	1	46	50	92	10	ug/L
	SS	942379-05	1	36	50	72	10	ug/L

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WESTERN ATLAS

Core Laboratories

QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942379 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Volatile Organic Contaminants DATE ANALYZED: 05/26/94 TIME ANALYZED: 16:06 METHOD: SW-846/8240 QC NUMBER:978740

MATRIX SPIKES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Benzene	MS	942615-09	1	59	0	50	118	10	ug/L
1,1-Dichloroethene	MS	942615-09	1	39	0	50	78	10	ug/L
Trichloroethene	MS	942615-09	1	59	0	50	118	10	ug/L
Toluene	MS	942615-09	1	59	0	50	118	10	ug/L
Chlorobenzene	MS	942615-09	1	58	0	50	116	10	ug/L

0600

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WESTERN ATLAS

Core Laboratories

QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942379 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Volatile Organic Contaminants DATE ANALYZED: 05/26/94 TIME ANALYZED: 16:06 METHOD: SW-846/8240 QC NUMBER:978740

DUPLICATES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (|A-B|)	DETECTION LIMITS	UNITS OF MEASURE
Benzene	MSD	942615-09	1	59	49	19	10	ug/L
1,1-Dichloroethene	MSD	942615-09	1	39	47	8	10	ug/L
Trichloroethene	MSD	942615-09	1	59	49	19	10	ug/L
Toluene	MSD	942615-09	1	59	49	19	10	ug/L
Chlorobenzene	MSD	942615-09	1	58	47	21	10	ug/L

0600

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9099

WESTERN ATLAS

Core Laboratories

QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942379 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Volatile Organic Contaminants DATE ANALYZED: 05/31/94 TIME ANALYZED: 16:28 METHOD: SW-846/8240 QC NUMBER:978800

BLANKS

TEST DESCRIPTION	ANALY	SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Benzene	IB		GCMS053194	1	<10	10	ug/L
	IB		GCMS060294	1	<10	10	ug/L
1,1-Dichloroethene	IB		GCMS053194	1	<10	10	ug/L
	IB		GCMS060294	1	<10	10	ug/L
Trichloroethene	IB		GCMS053194	1	<10	10	ug/L
	IB		GCMS060294	1	<10	10	ug/L
Toluene	IB		GCMS053194	1	<10	10	ug/L
	IB		GCMS060294	1	<10	10	ug/L
Chlorobenzene	IB		GCMS053194	1	<10	10	ug/L
	IB		GCMS060294	1	<10	10	ug/L
Acetone	IB		GCMS053194	1	<10	10	ug/L
	IB		GCMS060294	1	<10	10	ug/L
Bromodichloromethane	IB		GCMS053194	1	<10	10	ug/L
	IB		GCMS060294	1	<10	10	ug/L
Bromoform	IB		GCMS053194	1	<10	10	ug/L
	IB		GCMS060294	1	<10	10	ug/L
omethane	IB		GCMS053194	1	<10	10	ug/L
	IB		GCMS060294	1	<10	10	ug/L
-Butanone (MEK)	IB		GCMS053194	1	<10	10	ug/L
	IB		GCMS060294	1	<10	10	ug/L
Carbon disulfide	IB		GCMS053194	1	<10	10	ug/L
	IB		GCMS060294	1	<10	10	ug/L
Carbon tetrachloride	IB		GCMS053194	1	<10	10	ug/L
	IB		GCMS060294	1	<10	10	ug/L
Chloroethane	IB		GCMS053194	1	<10	10	ug/L
	IB		GCMS060294	1	<10	10	ug/L
Chloroform	IB		GCMS053194	1	<10	10	ug/L
	IB		GCMS060294	1	<10	10	ug/L
Chloromethane	IB		GCMS053194	1	<10	10	ug/L
	IB		GCMS060294	1	<10	10	ug/L
Dibromochloromethane	IB		GCMS053194	1	<10	10	ug/L
	IB		GCMS060294	1	<10	10	ug/L
1,1-Dichloroethane	IB		GCMS053194	1	<10	10	ug/L
	IB		GCMS060294	1	<10	10	ug/L
1,2-Dichloroethane	IB		GCMS053194	1	<10	10	ug/L
	IB		GCMS060294	1	<10	10	ug/L
1,2-Dichloroethene (Total)	IB		GCMS053194	1	<10	10	ug/L
	IB		GCMS060294	1	<10	10	ug/L
1,2-Dichloropropane	IB		GCMS053194	1	<10	10	ug/L
	IB		GCMS060294	1	<10	10	ug/L
cis-1,3-Dichloropropene	IB		GCMS053194	1	<10	10	ug/L
	IB		GCMS060294	1	<10	10	ug/L
trans-1,3-Dichloropropene	IB		GCMS053194	1	<10	10	ug/L
	IB		GCMS060294	1	<10	10	ug/L
Ethylbenzene	IB		GCMS053194	1	<10	10	ug/L
	IB		GCMS060294	1	<10	10	ug/L

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9100

WESTERN ATLAS

Core Laboratories

QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942379 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Volatile Organic Contaminants DATE ANALYZED: 05/31/94 TIME ANALYZED: 16:28 METHOD: SW-846/8240 QC NUMBER:978800

BLANKS

TEST DESCRIPTION	ANALY	SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
2-Hexanone	IB		GCMS053194	1	<10	10	ug/L
	IB		GCMS060294	1	<10	10	ug/L
Methylene chloride	IB		GCMS053194	1	<10	10	ug/L
	IB		GCMS060294	1	<10	10	ug/L
4-Methyl-2-pentanone	IB		GCMS053194	1	<10	10	ug/L
	IB		GCMS060294	1	<10	10	ug/L
Styrene	IB		GCMS053194	1	<10	10	ug/L
	IB		GCMS060294	1	<10	10	ug/L
1,1,2,2-Tetrachloroethane	IB		GCMS053194	1	<10	10	ug/L
	IB		GCMS060294	1	<10	10	ug/L
Tetrachloroethene	IB		GCMS053194	1	<10	10	ug/L
	IB		GCMS060294	1	<10	10	ug/L
1,1,1-Trichloroethane	IB		GCMS053194	1	<10	10	ug/L
	IB		GCMS060294	1	<10	10	ug/L
1,1,2-Trichloroethane	IB		GCMS053194	1	<10	10	ug/L
	IB		GCMS060294	1	<10	10	ug/L
ıl Xylenes	IB		GCMS053194	1	<10	10	ug/L
	IB		GCMS060294	1	<10	10	ug/L
vinyl chloride	IB		GCMS053194	1	<10	10	ug/L
	IB		GCMS060294	1	<10	10	ug/L

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9101

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QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942379 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Volatile Organic Contaminants DATE ANALYZED: 05/31/94 TIME ANALYZED: 16:28 METHOD: SW-846/8240 QC NUMBER:978800

REFERENCE STANDARDS

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	TRUE VALUE	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
1,2-Dichloroethane-d4	SS	942379-04	1	49	50	98	10	ug/L
Toluene-d8	SS	942379-04	1	53	50	106	10	ug/L
Bromofluorobenzene	SS	942379-04	1	34	50	68	10	ug/L

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JOB NUMBER: 942379 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Volatile Organic Contaminants DATE ANALYZED: 05/31/94 TIME ANALYZED: 16:28 METHOD: SW-846/8240 QC NUMBER:978800

MATRIX SPIKES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Benzene	MS	942459-04	1	48	0	50	96	10	ug/L
1,1-Dichloroethene	MS	942459-04	1	41	0	50	82	10	ug/L
Trichloroethene	MS	942459-04	1	49	0	50	98	10	ug/L
Toluene	MS	942459-04	1	48	0	50	96	10	ug/L
Chlorobenzene	MS	942459-04	1	48	0	50	96	10	ug/L

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Volatile Organic Contaminants DATE ANALYZED: 05/31/94 TIME ANALYZED: 16:28 METHOD: SW-846/8240 QC NUMBER:978800

DUPLICATES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (|A-B|)	DETECTION LIMITS	UNITS OF MEASURE
Benzene	MSD	942459-04	1	48	46	2	10	ug/L
1,1-Dichloroethene	MSD	942459-04	1	41	39	2	10	ug/L
Trichloroethene	MSD	942459-04	1	49	47	2	10	ug/L
Toluene	MSD	942459-04	1	48	46	2	10	ug/L
Chlorobenzene	MSD	942459-04	1	48	47	1	10	ug/L

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QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942379 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Semi-volatile Organic Contaminants DATE ANALYZED: 06/07/94 TIME ANALYZED: 07:46 METHOD: SW-846/8270 QC NUMBER:978840

BLANKS

TEST DESCRIPTION	ANALY SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASU
Phenol	MB	SEP052694	1	<10	10	ug/L
2-Chlorophenol	MB	SEP052694	1	<10	10	ug/L
1,4-Dichlorobenzene	MB	SEP052694	1	<10	10	ug/L
N-Nitrosodi-n-propylamine	MB	SEP052694	1	<10	10	ug/L
1,2,4-Trichlorobenzene	MB	SEP052694	1	<10	10	ug/L
4-Chloro-3-methylphenol	MB	SEP052694	1	<10	10	ug/L
Acenaphthene	MB	SEP052694	1	<10	10	ug/L
4-Nitrophenol	MB	SEP052694	1	<25	25	ug/L
2,4-Dinitrotoluene	MB	SEP052694	1	<10	10	ug/L
Pentachlorophenol	MB	SEP052694	1	<25	25	ug/L
Pyrene	MB	SEP052694	1	<10	10	ug/L
Acenaphthylene	MB	SEP052694	1	<10	10	ug/L
Anthracene	MB	SEP052594	1	<10	10	ug/L
Benzo(a)anthracene	MB	SEP052694	1	<10	10	ug/L
Benzo(b)fluoranthene	MB	SEP052694	1	<10	10	ug/L
Benzo(k)fluoranthene	MB	SEP052694	1	<10	10	ug/L
Benzo(ghi)perylene	MB	SEP052694	1	<10	10	ug/L
Benzo(a)pyrene	MB	SEP052694	1	<10	10	ug/L
Bis(2-chloroethoxy)methane	MB	SEP052694	1	<10	10	ug/L
Bis(2-chloroethyl)ether	MB	SEP052694	1	<10	10	ug/L
Bis(2-chloroisopropyl)ether	MB	SEP052694	1	<10	10	ug/L
Bis(2-ethylhexyl) phthalate	MB	SEP052694	1	<10	10	ug/L
4-Bromophenyl phenyl ether	MB	SEP052694	1	<10	10	ug/L
Butyl benzyl phthalate	MB	SEP052694	1	<10	10	ug/L
Carbazole	MB	SEP052694	1	<10	10	ug/L
4-Chloroaniline	MB	SEP052694	1	<10	10	ug/L
2-Chloronaphthalene	MB	SEP052694	1	<10	10	ug/L
4-Chlorophenyl phenyl ether	MB	SEP052694	1	<10	10	ug/L
Chrysene	MB	SEP052694	1	<10	10	ug/L
2-Methylphenol	MB	SEP052694	1	<10	10	ug/L
4-Methylphenol	MB	SEP052694	1	<10	10	ug/L
Dibenzo(a,h)anthracene	MB	SEP052694	1	<10	10	ug/L
Dibenzofuran	MB	SEP052694	1	<10	10	ug/L
Di-n-butyl phthalate	MB	SEP052694	1	<10	10	ug/L
1,2-Dichlorobenzene	MB	SEP052694	1	<10	10	ug/L
1,3-Dichlorobenzene	MB	SEP052694	1	<10	10	ug/L
3,3'-Dichlorobenzidine	MB	SEP052694	1	<10	10	ug/L
2,4-Dichlorophenol	MB	SEP052694	1	<10	10	ug/L
Diethyl phthalate	MB	SEP052694	1	<10	10	ug/L
2,4-Dimethylphenol	MB	SEP052694	1	<10	10	ug/L
Dimethyl phthalate	MB	SEP052694	1	<10	10	ug/L
2,4-Dinitrophenol	MB	SEP052694	1	<25	25	ug/L
2,6-Dinitrotoluene	MB	SEP052694	1	<10	10	ug/L
Di-n-octyl phthalate	MB	SEP052694	1	<10	10	ug/L
Fluoranthene	MB	SEP052694	1	<10	10	ug/L
Fluorene	MB	SEP052694	1	<10	10	ug/L

009105

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9105

WESTERN ATLAS

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QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942379 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Semi-volatile Organic Contaminants DATE ANALYZED: 06/07/94 TIME ANALYZED: 07:46 METHOD: SW-846/8270 QC NUMBER:978840

BLANKS

TEST DESCRIPTION	ANALY SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Hexachlorobenzene	MB	SEP052694	1	<10	10	ug/L
Hexachlorobutadiene	MB	SEP052694	1	<10	10	ug/L
Hexachlorocyclopentadiene	MB	SEP052694	1	<10	10	ug/L
Hexachloroethane	MB	SEP052694	1	<10	10	ug/L
Indenol(1,2,3-cd)pyrene	MB	SEP052694	1	<10	10	ug/L
Isophorone	MB	SEP052694	1	<10	10	ug/L
2-Methyl-4,6-dinitrophenol	MB	SEP052694	1	<25	25	ug/L
2-Methylnaphthalene	MB	SEP052694	1	<10	10	ug/L
Naphthalene	MB	SEP052694	1	<10	10	ug/L
2-Nitroaniline	MB	SEP052694	1	<25	25	ug/L
3-Nitroaniline	MB	SEP052694	1	<25	25	ug/L
4-Nitroaniline	MB	SEP052694	1	<25	25	ug/L
Nitrobenzene	MB	SEP052694	1	<10	10	ug/L
2-Nitrophenol	MB	SEP052694	1	<10	10	ug/L
N-Nitrosodiphenylamine	MB	SEP052694	1	<10	10	ug/L
Phenanthrene	MB	SEP052694	1	<10	10	ug/L
6-Trichlorophenol	MB	SEP052694	1	<10	10	ug/L
,5-Trichlorophenol	MB	SEP052694	1	<25	25	ug/L

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QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942379 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Semi-volatile Organic Contaminants DATE ANALYZED: 06/07/94 TIME ANALYZED: 07:46 METHOD: SW-846/8270 QC NUMBER:978840

REFERENCE STANDARDS

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	TRUE VALUE	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
2-Fluorophenol	SS	942349-004	1	110	200	55	10	ug/L
	SS	942349-005	1	49	200	24	10	ug/L
	SS	942349-006	1	61	200	30	10	ug/L
	SS	942349-007	1	89	200	44	10	ug/L
	SS	942349-009	1	55	200	28	10	ug/L
	SS	942349-012	1	73	200	36	10	ug/L
	SS	942349-013	1	83	200	42	10	ug/L
	SS	942349-014	1	90	200	45	10	ug/L
	SS	942379-001	1	46	200	23	10	ug/L
	SS	942379-002	1	45	200	22	10	ug/L
	SS	942379-003	1	89	200	44	10	ug/L
Phenol-d5	SS	942349-004	1	68	200	34	10	ug/L
	SS	942349-005	1	27	200	14	10	ug/L
	SS	942349-006	1	34	200	17	10	ug/L
	SS	942349-007	1	56	200	28	10	ug/L
	SS	942349-009	1	30	200	15	10	ug/L
	SS	942349-012	1	43	200	22	10	ug/L
	SS	942349-013	1	50	200	25	10	ug/L
	SS	942349-014	1	55	200	28	10	ug/L
	SS	942379-001	1	29	200	14	10	ug/L
	SS	942379-002	1	23	200	12	10	ug/L
	SS	942379-003	1	53	200	26	10	ug/L
Nitrobenzene-d5	SS	942349-004	1	82	100	82	10	ug/L
	SS	942349-005	1	39	100	39	10	ug/L
	SS	942349-006	1	46	100	46	10	ug/L
	SS	942349-007	1	70	100	70	10	ug/L
	SS	942349-009	1	47	100	47	10	ug/L
	SS	942349-012	1	57	100	57	10	ug/L
	SS	942349-013	1	67	100	67	10	ug/L
	SS	942349-014	1	69	100	69	10	ug/L
	SS	942379-001	1	39	100	39	10	ug/L
	SS	942379-002	1	35	100	35	10	ug/L
	SS	942379-003	1	68	100	68	10	ug/L
2-Fluorobiphenyl	SS	942349-004	1	85	100	85	10	ug/L
	SS	942349-005	1	39	100	39	10	ug/L
	SS	942349-006	1	51	100	51	10	ug/L
	SS	942349-007	1	73	100	73	10	ug/L
	SS	942349-009	1	48	100	48	10	ug/L
	SS	942349-012	1	58	100	58	10	ug/L
	SS	942349-013	1	69	100	69	10	ug/L
	SS	942349-014	1	73	100	73	10	ug/L
	SS	942379-001	1	38	100	38	10	ug/L
	SS	942379-002	1	31	100	31	10	ug/L
	SS	942379-003	1	63	100	63	10	ug/L
2,4,6-tribromophenol	SS	942349-004	1	154	200	77	10	ug/L

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9107

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QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942379 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Semi-volatile Organic Contaminants DATE ANALYZED: 06/07/94 TIME ANALYZED: 07:46 METHOD: SW-846/8270 QC NUMBER:978840

REFERENCE STANDARDS

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	TRUE VALUE	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
	SS	942349-005	1	68	200	34	10	ug/L
	SS	942349-006	1	86	200	43	10	ug/L
	SS	942349-007	1	139	200	70	10	ug/L
	SS	942349-009	1	79	200	40	10	ug/L
	SS	942349-012	1	108	200	54	10	ug/L
	SS	942349-013	1	122	200	61	10	ug/L
	SS	942349-014	1	132	200	66	10	ug/L
	SS	942379-001	1	74	200	37	10	ug/L
	SS	942379-002	1	57	200	28	10	ug/L
	SS	942379-003	1	113	200	56	10	ug/L
p-Terphenyl-d14	SS	942349-004	1	90	100	90	10	ug/L
	SS	942349-005	1	47	100	47	10	ug/L
	SS	942349-006	1	54	100	54	10	ug/L
	SS	942349-007	1	82	100	82	10	ug/L
	SS	942349-009	1	52	100	52	10	ug/L
	SS	942349-012	1	64	100	64	10	ug/L
	SS	942349-013	1	67	100	67	10	ug/L
	SS	942349-014	1	78	100	78	10	ug/L
	SS	942379-001	1	45	100	45	10	ug/L
	SS	942379-002	1	35	100	35	10	ug/L
	SS	942379-003	1	73	100	73	10	ug/L

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9108

WESTERN ATLAS

Core Laboratories

QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942379 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Semi-volatile Organic Contaminants DATE ANALYZED: 06/07/94 TIME ANALYZED: 07:46 METHOD: SW-846/8270 QC NUMBER:978840

MATRIX SPIKES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Phenol	MS	942439-001	1	39	0	100	39	10	ug/L
2-Chlorophenol	MS	942439-001	1	83	0	100	83	10	ug/L
1,4-Dichlorobenzene	MS	942439-001	1	64	0	100	64	10	ug/L
N-Nitrosodi-n-propylamine	MS	942439-001	1	83	0	100	83	10	ug/L
1,2,4-Trichlorobenzene	MS	942439-001	1	68	0	100	68	10	ug/L
4-Chloro-3-methylphenol	MS	942439-001	1	78	0	100	78	10	ug/L
Acenaphthene	MS	942439-001	1	79	0	100	79	10	ug/L
4-Nitrophenol	MS	942439-001	1	392	0	1000	39	25	ug/L
2,4-Dinitrotoluene	MS	942439-001	1	63	0	100	63	10	ug/L
Pentachlorophenol	MS	942439-001	1	59	0	100	59	25	ug/L
Pyrene	MS	942439-001	1	59	0	100	59	10	ug/L

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WESTERN ATLAS

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QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942379 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Semi-volatile Organic Contaminants DATE ANALYZED: 06/07/94 TIME ANALYZED: 07:46 METHOD: SW-846/8270 QC NUMBER:978840

DUPLICATES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (|A-B|)	DETECTION LIMITS	UNITS OF MEASURE
Phenol	SD	942439-001	1	<10	<10	NC	10	ug/L
2-Chlorophenol	SD	942439-001	1	<10	<10	NC	10	ug/L
1,4-Dichlorobenzene	SD	942439-001	1	<10	<10	NC	10	ug/L
N-Nitrosodi-n-propylamine	SD	942439-001	1	<10	<10	NC	10	ug/L
1,2,4-Trichlorobenzene	SD	942439-001	1	<10	<10	NC	10	ug/L
4-Chloro-3-methylphenol	SD	942439-001	1	<10	<10	NC	10	ug/L
Acenaphthene	SD	942439-001	1	<10	<10	NC	10	ug/L
4-Nitrophenol	SD	942439-001	1	<25	<25	NC	25	ug/L
2,4-Dinitrotoluene	SD	942439-001	1	<10	<10	NC	10	ug/L
Pentachlorophenol	SD	942439-001	1	<25	<25	NC	25	ug/L
Pyrene	SD	942439-001	1	<10	<10	NC	10	ug/L

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009110

9110

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Core Laboratories

QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942379 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Semi-volatile Organic Contaminants DATE ANALYZED: 06/08/94 TIME ANALYZED: 09:06 METHOD: SW-846/8270 QC NUMBER:978853

BLANKS

TEST DESCRIPTION	ANALY SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Phenol	MB	SON060294	1	<10	10	ug/L
2-Chlorophenol	MB	SON060294	1	<10	10	ug/L
1,4-Dichlorobenzene	MB	SON060294	1	<10	10	ug/L
N-Nitrosodi-n-propylamine	MB	SON060294	1	<10	10	ug/L
1,2,4-Trichlorobenzene	MB	SON060294	1	<10	10	ug/L
4-Chloro-3-methylphenol	MB	SON060294	1	<10	10	ug/L
Acenaphthene	MB	SON060294	1	<10	10	ug/L
4-Nitrophenol	MB	SON060294	1	<25	25	ug/L
2,4-Dinitrotoluene	MB	SON060294	1	<10	10	ug/L
Pentachlorophenol	MB	SON060294	1	<25	25	ug/L
Pyrene	MB	SON060294	1	<10	10	ug/L
Acenaphthylene	MB	SON060294	1	<10	10	ug/L
Anthracene	MB	SON060294	1	<10	10	ug/L
Benzo(a)anthracene	MB	SON060294	1	<10	10	ug/L
Benzo(b)fluoranthene	MB	SON060294	1	<10	10	ug/L
nzo(k)fluoranthene	MB	SON060294	1	<10	10	ug/L
o(ghi)perylene	MB	SON060294	1	<10	10	ug/L
zo(a)pyrene	MB	SON060294	1	<10	10	ug/L
sis(2-chloroethoxy)methane	MB	SON060294	1	<10	10	ug/L
Bis(2-chloroethyl)ether	MB	SON060294	1	<10	10	ug/L
Bis(2-chloroisopropyl)ether	MB	SON060294	1	<10	10	ug/L
Bis(2-ethylhexyl) phthalate	MB	SON060294	1	<10	10	ug/L
4-Bromophenyl phenyl ether	MB	SON060294	1	<10	10	ug/L
Butyl benzyl phthalate	MB	SON060294	1	<10	10	ug/L
Carbazole	MB	SON060294	1	<10	10	ug/L
4-Chloroaniline	MB	SON060294	1	<10	10	ug/L
2-Chloronaphthalene	MB	SON060294	1	<10	10	ug/L
4-Chlorophenyl phenyl ether	MB	SON060294	1	<10	10	ug/L
Chrysene	MB	SON060294	1	<10	10	ug/L
2-Methylphenol	MB	SON060294	1	<10	10	ug/L
4-Methylphenol	MB	SON060294	1	<10	10	ug/L
Dibenzo(a,h)anthracene	MB	SON060294	1	<10	10	ug/L
Dibenzofuran	MB	SON060294	1	<10	10	ug/L
Di-n-butyl phthalate	MB	SON060294	1	<10	10	ug/L
1,2-Dichlorobenzene	MB	SON060294	1	<10	10	ug/L
1,3-Dichlorobenzene	MB	SON060294	1	<10	10	ug/L
3,3'-Dichlorobenzidine	MB	SON060294	1	<10	10	ug/L
2,4-Dichlorophenol	MB	SON060294	1	<10	10	ug/L
Diethyl phthalate	MB	SON060294	1	<10	10	ug/L
2,4-Dimethylphenol	MB	SON060294	1	<10	10	ug/L
Dimethyl phthalate	MB	SON060294	1	<10	10	ug/L
2,4-Dinitrophenol	MB	SON060294	1	<25	25	ug/L
2,6-Dinitrotoluene	MB	SON060294	1	<10	10	ug/L
Di-n-octyl phthalate	MB	SON060294	1	<10	10	ug/L
Fluoranthene	MB	SON060294	1	<10	10	ug/L
Fluorene	MB	SON060294	1	<10	10	ug/L

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009111

9111

WESTERN ATLAS

Core Laboratories

QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942379 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Semi-volatile Organic Contaminants DATE ANALYZED: 06/08/94 TIME ANALYZED: 09:06 METHOD: SW-846/8270 QC NUMBER:978853

BLANKS

TEST DESCRIPTION	ANALY SUB-TYPE	ANALYSIS I.D.	DILUTION FACTOR	ANALYZED VALUE	DETECTION LIMIT	UNITS OF MEASURE
Hexachlorobenzene	MB	SON060294	1	<10	10	ug/L
Hexachlorobutadiene	MB	SON060294	1	<10	10	ug/L
Hexachlorocyclopentadiene	MB	SON060294	1	<10	10	ug/L
Hexachloroethane	MB	SON060294	1	<10	10	ug/L
Indenol(1,2,3-cd)pyrene	MB	SON060294	1	<10	10	ug/L
Isophorone	MB	SON060294	1	<10	10	ug/L
2-Methyl-4,6-dinitrophenol	MB	SON060294	1	<25	25	ug/L
2-Methylnaphthalene	MB	SON060294	1	<10	10	ug/L
Naphthalene	MB	SON060294	1	<10	10	ug/L
2-Nitroaniline	MB	SON060294	1	<25	25	ug/L
3-Nitroaniline	MB	SON060294	1	<25	25	ug/L
4-Nitroaniline	MB	SON060294	1	<25	25	ug/L
Nitrobenzene	MB	SON060294	1	<10	10	ug/L
2-Nitrophenol	MB	SON060294	1	<10	10	ug/L
N-Nitrosodiphenylamine	MB	SON060294	1	<10	10	ug/L
henanthrene	MB	SON060294	1	<10	10	ug/L
6-Trichlorophenol	MB	SON060294	1	<10	10	ug/L
,5-Trichlorophenol	MB	SON060294	1	<25	25	ug/L

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009112

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9112

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QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942379 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Semi-volatile Organic Contaminants DATE ANALYZED: 06/08/94 TIME ANALYZED: 09:06 METHOD: SW-846/8270 QC NUMBER:978853

REFERENCE STANDARDS

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	TRUE VALUE	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
2-Fluorophenol	SS	942379-004	1	121	200	60	10	ug/L
Phenol-d5	SS	942379-004	1	132	200	66	10	ug/L
Nitrobenzene-d5	SS	942379-004	1	53	100	53	10	ug/L
2-Fluorobiphenyl	SS	942379-004	1	74	100	74	10	ug/L
2,4,6-tribromophenol	SS	942379-004	1	141	200	70	10	ug/L
p-Terphenyl-d14	SS	942379-004	1	81	100	81	10	ug/L

009113

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07/21/94

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Semi-volatile Organic Contaminants DATE ANALYZED: 06/08/94 TIME ANALYZED: 09:06 METHOD: SW-846/8270 QC NUMBER:978853

MATRIX SPIKES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE	ORIGINAL VALUE	SPIKE ADDED	PERCENT RECOVERY	DETECTION LIMITS	UNITS OF MEASURE
Phenol	MS	942384-019	1	68	0	100	68	10	ug/L
2-Chlorophenol	MS	942384-019	1	68	0	100	68	10	ug/L
1,4-Dichlorobenzene	MS	942384-019	1	59	0	100	59	10	ug/L
N-Nitrosodi-n-propylamine	MS	942384-019	1	64	0	100	64	10	ug/L
1,2,4-Trichlorobenzene	MS	942384-019	1	61	0	100	61	10	ug/L
4-Chloro-3-methylphenol	MS	942384-019	1	59	0	100	59	10	ug/L
Acenaphthene	MS	942384-019	1	63	0	100	63	10	ug/L
4-Nitrophenol	MS	942384-019	1	59	0	100	59	25	ug/L
2,4-Dinitrotoluene	MS	942384-019	1	55	0	100	55	10	ug/L
Pentachlorophenol	MS	942384-019	1	343	0	1000	34	25	ug/L
Pyrene	MS	942384-019	1	60	0	100	60	10	ug/L

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QUALITY CONTROL REPORT
07/21/94

JOB NUMBER: 942379 CUSTOMER: JONES & NEUSE, INC. ATTN: MICHAEL WHITEHEAD

Semi-volatile Organic Contaminants DATE ANALYZED: 06/08/94 TIME ANALYZED: 09:06 METHOD: SW-846/8270 QC NUMBER:978853

DUPLICATES

TEST DESCRIPTION	ANALYSIS SUB-TYPE	ANALYSIS I. D.	DILUTION FACTOR	ANALYZED VALUE (A)	DUPLICATE VALUE (B)	RPD or (|A-B|)	DETECTION LIMITS	UNITS OF MEASURE
Phenol	SD	942384-019	1	<10	<10	NC	10	ug/L
2-Chlorophenol	SD	942384-019	1	<10	<10	NC	10	ug/L
1,4-Dichlorobenzene	SD	942384-019	1	<10	<10	NC	10	ug/L
N-Nitrosodi-n-propylamine	SD	942384-019	1	<10	<10	NC	10	ug/L
1,2,4-Trichlorobenzene	SD	942384-019	1	<10	<10	NC	10	ug/L
4-Chloro-3-methylphenol	SD	942384-019	1	<10	<10	NC	10	ug/L
Acenaphthene	SD	942384-019	1	<10	<10	NC	10	ug/L
4-Nitrophenol	SD	942384-019	1	<25	<25	NC	25	ug/L
2,4-Dinitrotoluene	SD	942384-019	1	<10	<10	NC	10	ug/L
Pentachlorophenol	SD	942384-019	1	<25	<25	NC	25	ug/L
Pyrene	SD	942384-019	1	<10	<10	NC	10	ug/L

009115

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9115

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QUALITY ASSURANCE FOOTER
REPORT DATE

ND = Analyte Not Detected above the quantitation limit

The detection limit and units reported in the Quality Assurance (QA) Report may not coincide with the values reported in the Analytical Report because the data presented in the QA Report may not account for sample preparation and dilutions performed.

The date and time analyzed on the Quality Assurance Report may not reflect the actual date and/or time of analysis.

Results for soil samples are reported on a wet weight basis (unless otherwise indicated).

Cited Methods are obtained from the following documents:
- EPA 600/4-79-020, Methods for Chemical Analysis of Water and Wastes, March 1983
- Standard Methods for the Chemical Analysis of Water and Wastewater, 17th Edition, 1989
- Federal Register, Friday, October 26, 1984 (40 CRF Part 136)
- Standard Methods for the Examination of Water and Wastewater, 16th Edition, 1985

Numerical values expressed in the "LIMITS/*DILUTION" column are Method Quantitation Limits (MQL). A final result of "ND" should be considered as "less than the MQL" (<MQL) unless it is noted otherwise.

009116

SUBCONTRACTED LABORATORY LOCATIONS

For analysis performed by a subcontract laboratory, an "*" and the designated laboratory code is indicated in the "TECHN" column of the laboratory test results report.

Core Laboratories:		Other Laboratories:	
Anaheim	* A N	Saybolt	* 0 1
Aurora	* A U	Caleb Brett	* 0 2
Carrollton	* C R	Maxim	* 0 3
Casper	* C A	Southwestern Labs	* 0 4
Corpus Christi	* C C	Analytichem	* 0 5
Hollister	* H R	Other	* 0 0
Houston	* H P		
Long Beach	* L B		
New Orleans	* N O		

QUALITY ASSURANCE REPORT CODES

NC = Not Calculable due to values lower than the reporting limit

BLANKS	REFERENCE STANDARDS	SPIKES	DUPLICATES
MB = Method Blank	CS = Calibration Standard	MS = Matrix Spike	MSD = Matrix Spike Duplicate
RB = Reagent Blank	RS = Reference Standard	PDS = Post-Digest Spike	SD = Sample Duplicate
IB = Instrument Blan	ICV = Initial Calib. Verification	BS = Blank Spike	MD = Method Duplicate
ICB = Initial Calib. Blank	CCV = Continuing Calib. Verification	SS = Surrogate Spike	
CCB = Continuing Calib. Blank	LCS = Laboratory Control Standard		

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009116

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9116

No. 00687 (1)

WESTERN ATLAS

CORE LABORATORIES

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION		PROJECT INFORMATION	
COMPANY:	Jones & Neuse	PROJECT NAME/NUMBER:	153503.03
SEND REPORT TO:	Michael Whitehead	BILLING INFORMATION	
ADDRESS:	12655 N Central Exp	BILL TO:	
	Suite 323	ADDRESS:	
	Dallas, TX 75243		Same
PHONE:	490-8696	PHONE:	
FAX:	490-8695	FAX:	PO NO.:

LAB JOB NO. 942379

SAMPLE NO.	SAMPLE ID.	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE	PRES.	NUMBER OF CONTAINERS	TAL	TLL	TSS & alkalinity	TDS & alkalinity & pH					REMARKS / PRECAUTIONS
1	RI-MW-03-78	5/23/94	9:25	Water	Misc	yes	7	✓	✓		✓					well MW 03
2	RI-MW-12-79	"	10:10	water	misc	yes	2	✓	(J)	Semi vols only						well MW-12
3	RI-SW-05-80	"	1140	water	misc	yes	7	✓	✓	✓						SW-05, Fishtrap Lake
4	RI-SD-05-81	"	1155	sed.	jars	No	2	✓	✓							Fishtrap Lake 0 to 6"
~~5~~	~~RI-SD-05-82~~	"	~~1210~~	~~sed.~~	~~jars~~	~~No~~	MW									No sample
5	RI-SW-06-82	"	1425	water	misc	yes	4	✓		✓						Fishtrap Lake SW-06
6	RI-SD-06-83	"	1430	Soil	jar	no	1	✓								0 to 6"
—	~~RI-SD-07-84~~ MW	—	—	—	—	—										No sample
7	RI-SW-07-84	"	1530	water	misc	yes	4	✓		✓						Fishtrap Lake SW-07
8	RI-SD-07-85	"	1540	Soil	jar	No	1	✓								0 to 6"

SAMPLER: Mike Whitehead / Cheryl Boyd

SHIPMENT METHOD: Pick Up

AIRBILL NO.:

REQUIRED TURNAROUND: [ ] SAME DAY [ ] 24 HOURS [ ] 48 HOURS [ ] 72 HOURS [ ] 5 DAYS [ ] 10 DAYS [ ] ROUTINE [X] OTHER See Ed York

1. RELINQUISHED BY: SIGNATURE: Mike Whitehead	DATE: 5/24/94	2. RELINQUISHED BY: SIGNATURE:	DATE:	3. RELINQUISHED BY: SIGNATURE:	DATE:		
PRINTED NAME/COMPANY: Mike Whitehead / TN	TIME: 10:00	PRINTED NAME/COMPANY:	TIME:	PRINTED NAME/COMPANY:	TIME:		
1. RECEIVED BY: SIGNATURE: C. Ed York	DATE: 5/24/94	2. RECEIVED BY: SIGNATURE:	DATE: 5/24/94	3. RECEIVED BY: SIGNATURE:	DATE:		
PRINTED NAME/COMPANY:	TIME: 10:00	PRINTED NAME/COMPANY:	TIME: 1200	PRINTED NAME/COMPANY:	TIME:		

009117

9117

WESTERN ATLAS

CORE LABORATORIES

No. 00694

CHAIN OF CUSTODY RECORD

(2)

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: Jones & Neuse	PROJECT NAME/NUMBER: 153503.03
SEND REPORT TO: Mike Whitehead	BILLING INFORMATION
ADDRESS: 12655 N. Central Exp Suite 323 Dallas TX 75243	BILL TO: ADDRESS: Same
PHONE: 490-8696	PHONE:
FAX:	FAX: PO NO.:

LAB JOB NO. 942377

SAMPLE NO.	SAMPLE ID	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE	PRES.	NUMBER OF CONTAINERS	ANALYSIS / METHOD REQUEST: TPH	TCL							REMARKS / PRECAUTIONS
9	RI-SD-07-86	5/23/94	15:40	Soil	Jar	No	1	✓								6 to 12"
10	RI-~~TB~~-03-87	"	17:35	Water	VOA	No	2		✓							Trip Blank

009118

9118

SAMPLER: Mike Whitehead / Cheryl Roop

SHIPMENT METHOD: Pick Up

AIRBILL NO.:

REQUIRED TURNAROUND: [ ] SAME DAY [ ] 24 HOURS [ ] 48 HOURS [ ] 72 HOURS [ ] 5 DAYS [ ] 10 DAYS [ ] ROUTINE [X] OTHER See EA York

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE: Mike Whitehead	5/23/94	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: Mike Whitehead JTW	TIME 10:00	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE: C. Ed York	5/24/94	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY:	TIME 1000	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

009118

[GC/MS OPERATOR REPORT]

[GC/MS LAB SEMIVOLATILES]

942379-01

[INTERNAL STANDARD CHECK REPORT]

SAMPLE FILE = [illegible]4494
CAL CHECK FILE = [illegible]5455
DATE AND TIME OF ANALYSIS = 6/07/94 18:22
MISCELLANEOUS = 05 26 94 LIQ. 1L:1m
METHOD = BNAMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER GRP

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I. Areas

Name of the BNA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
1,4-Dichlorobenz-d4	30086	34692	17346	69384	OK
Naphthalene-d8	115402	155766	77883	311532	OK
Acenaphthene-d10	113303	129216	64608	258432	OK
Phenanthrene-d10	283591	284132	142066	568264	OK
[illegible]ysene-d12	403095	418165	209082	836330	OK
Perylene-d12	503618	493163	246581	986326	OK

II. Retention Times

Name of the BNA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
1,4-Dichlorobenz-d4	8.14	8.12	7.62	8.62	OK
Naphthalene-d8	11.58	11.59	11.09	12.09	OK
Acenaphthene-d10	16.43	16.42	15.92	16.92	OK
Phenanthrene-d10	20.43	20.41	19.91	20.91	OK
Chrysene-d12	27.73	27.73	27.23	28.23	OK
Perylene-d12	31.39	31.39	30.88	31.88	OK

[GC/MS OPERATOR REPORT]

[GC/MS LAB VOLATILES]

942379-01

[INTERNAL STANDARD CHECK REPORT]

SAMPLE FILE = >B0866
CAL CHECK FILE = >BC068
DATE AND TIME OF ANALYSIS = 5/26/94 19:33
MISCELLANEOUS = (VTCL) 5.0ml PURGE
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

I. Areas

Name of the VOA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
Bromochlorobenzene	27928	25235	12618	50470	OK
1,4-Difluorobenzene	109913	108922	54461	217844	OK
Chlorobenzene-d5	86495	84051	42025	168102	OK

II. Retention Times

Name of the VOA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
Bromochloromethane	8.17	8.16	7.66	8.66	OK
1,4-Difluorobenzene	10.39	10.38	9.88	10.88	OK
Chlorobenzene-d5	18.47	18.47	17.97	18.97	OK

[GC/MS OPERATOR REPORT]

[GC/MS LAB SEMIVOLATILES]

942379-02

[INTERNAL STANDARD CHECK REPORT]

SAMPLE FILE = >A4495
CAL CHECK FILE = >SK455
DATE AND TIME OF ANALYSIS = 6/07/94 19:05
MISCELLANEOUS = 05 26 94 LIQ. 1L:1ml
METHOD = BNAMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER GRP

I. Areas

Name of the BNA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
1,4-Dichlorobenz-d4	28992	34692	17346	69384	OK
Naphthalene-d8	115465	155766	77883	311532	OK
Acenaphthene-d10	112074	129216	64608	258432	OK
Phenanthrene-d10	275515	284132	142066	568264	OK
Chrysene-d12	389293	418165	209082	836330	OK
Perylene-d12	479528	493163	246581	986326	OK

II. Retention Times

Name of the BNA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
1,4-Dichlorobenz-d4	8.14	8.12	7.62	8.62	OK
Naphthalene-d8	11.60	11.59	11.09	12.09	OK
Acenaphthene-d10	16.43	16.42	15.92	16.92	OK
Phenanthrene-d10	20.43	20.41	19.91	20.91	OK
Chrysene-d12	27.74	27.73	27.23	28.23	OK
Perylene-d12	31.40	31.38	30.88	31.88	OK

[GC/MS OPERATOR REPORT]

[GC/MS LAB SEMIVOLATILES]

[INTERNAL STANDARD CHECK REPORT]

942379-03

SAMPLE FILE = >A4496
CAL CHECK FILE = >SK455
DATE AND TIME OF ANALYSIS = 6/07/94 19:50
MISCELLANEOUS = 05 26 94 LIQ. 1L:1ml
METHOD = BNAMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER CRP

I. Areas

Name of the BNA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
1,4-Dichlorobenz-d4	29149	34692	17346	69384	OK
Naphthalene-d8	117509	155766	77883	311532	OK
Acenaphthene-d10	114947	129216	64608	258432	OK
Phenanthrene-d10	284793	284132	142066	568264	OK
ysene-d12	392091	418165	209082	836330	OK
Perylene-d12	532816	493163	246581	986326	OK

II. Retention Times

Name of the BNA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
1,4-Dichlorobenz-d4	8.12	8.12	7.62	8.62	OK
Naphthalene-d8	11.59	11.59	11.09	12.09	OK
Acenaphthene-d10	16.42	16.42	15.92	16.92	OK
Phenanthrene-d10	20.42	20.41	19.91	20.91	OK
Chrysene-d12	27.73	27.73	27.23	28.23	OK
Perylene-d12	31.39	31.36	30.88	31.88	OK

[GC/MS OPERATOR REPORT]

[GC/MS LAB VOLATILES]

[INTERNAL STANDARD CHECK REPORT]

942379-03

SAMPLE FILE = >B0867
CAL CHECK FILE = >BC068
DATE AND TIME OF ANALYSIS = 5/26/94 20:11
MISCELLANEOUS = (VTCL) 5.0ml PURGE
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

I. Areas

Name of the VOA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
Bromochlorobenzene	27917	25235	12618	50470	OK
1,4-Difluorobenzene	113038	108922	54461	217844	OK
Chlorobenzene-d5	86810	84051	42025	168102	OK

II. Retention Times

Name of the VOA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
Bromochloromethane	8.17	8.16	7.66	8.66	OK
1,4-Difluorobenzene	10.42	10.38	9.88	10.88	OK
Chlorobenzene-d5	18.53	18.47	17.97	18.97	OK

[GC/MS OPERATOR REPORT]

[GC/MS LAB SEMIVOLATILES]

[INTERNAL STANDARD CHECK REPORT]

942379-04

SAMPLE FILE = >A4498
CAL CHECK FILE = >SK456
DATE AND TIME OF ANALYSIS = 6/08/94 17:50
MISCELLANEOUS = 05 26 94 SOIL 30g:1ml
METHOD = BNAMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER GRP

I. Areas

Name of the BNA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
1,4-Dichlorobenz-d4	31063	39331	19666	78662	OK
Naphthalene-d8	129122	167774	83887	335548	OK
Acenaphthene-d10	118441	146349	73175	292698	OK
Phenanthrene-d10	255612	334947	167473	669894	OK
Chrysene-d12	334436	476288	238144	952576	OK
Perylene-d12	415043	634765	317382	1269530	OK

II. Retention Times

Name of the BNA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
1,4-Dichlorobenz-d4	8.13	8.14	7.64	8.64	OK
Naphthalene-d8	11.58	11.59	11.09	12.09	OK
Acenaphthene-d10	16.42	16.42	15.92	16.92	OK
Phenanthrene-d10	20.42	20.43	19.93	20.93	OK
Chrysene-d12	27.73	27.75	27.25	28.25	OK
Perylene-d12	31.42	31.39	30.89	31.89	OK

[GC/MS OPERATOR REPORT]

[GC/MS LAB VOLATILES]

[INTERNAL STANDARD CHECK REPORT]

942379-04

SAMPLE FILE = >B0888
CAL CHECK FILE = ~~>VK930~~ BC071 DJ 6-2-94
DATE AND TIME OF ANALYSIS = 6/01/94 19:37
MISCELLANEOUS = (VTCL) 5.0g Purge
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

I. Areas

Name of the VOA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
Bromochlorobenzene	23409	17630	8815	35260	OK
1,4-Difluorobenzene	97284	74154	37077	148308	OK
Chlorobenzene-d5	73323	59593	29796	119186	OK

II. Retention Times

Name of the VOA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
Bromochloromethane	8.34	8.30 ~~5.40~~	7.80 ~~4.90~~	8.80 ~~5.90~~	~~BAD~~ OK
1,4-Difluorobenzene	10.52	10.50 ~~7.56~~	10.00 ~~7.06~~	11.00 ~~8.06~~	~~BAD~~ OK
Chlorobenzene-d5	18.51	18.50 ~~13.32~~	18.00 ~~12.82~~	19.00 ~~13.82~~	~~BAD~~ OK

DJ 6-2-94

009125

9125

[GC/MS OPERATOR REPORT]

[GC/MS LAB VOLATILES]

[INTERNAL STANDARD CHECK REPORT]

942379-05

SAMPLE FILE = >B0891
CAL CHECK FILE = ~~>VK980~~ BC071
DATE AND TIME OF ANALYSIS = 6/01/94 21:31
MISCELLANEOUS = (VTCL) 5.0ml Purge
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

I. Areas

Name of the VOA Internal Standard	The Sample ISTD Area	Daily Check ISTD Area	Daily Check ISTD Area / 2	Daily Check ISTD Area x 2	Status of the Sample ISTD Area Precision
Bromochlorobenzene	30812	17630	8815	35260	OK
1,4-Difluorobenzene	124913	74154	37077	148308	OK
Chlorobenzene-d5	99996	59593	29796	119186	OK

II. Retention Times

Name of the VOA Internal Standard	The Sample ISTD R.Time	Daily Check ISTD R.Time	Daily Check ISTD RT - 0.5	Daily Check ISTD RT + 0.5	Status of the Sample ISTD R.T. Precision
Bromochloromethane	8.35	8.31 ~~5.40~~	7.81 ~~4.90~~	8.81 ~~5.90~~	~~BAD~~ OK
1,4-Difluorobenzene	10.55	10.50 ~~7.56~~	10.00 ~~7.06~~	11.00 ~~8.06~~	~~BAD~~ OK
Chlorobenzene-d5	18.51	18.50 ~~13.32~~	18.00 ~~12.82~~	19.00 ~~13.82~~	~~BAD~~ OK

GC/MS PERFORMANCE STANDARD

Decafluorotriphenylphospine (DFTPP)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
51	30-60% of mass 198	49.69	49.69	Ok
68	Less than 2% of mass 69	1.10	1.77	Ok
69	(reference only)	61.89	61.89	Ok
70	Less than 2% of mass 69	.29	.47	Ok
127	40-60% of mass 198	40.36	40.36	Ok
197	Less than 1% of mass 198	0.00	0.00	Ok
198	Base peak, 100% relative abundance	100.00	100.00	Ok
199	5-9% of mass 198	6.86	6.86	Ok
275	10-30% of mass 198	21.26	21.26	Ok
365	Greater than 1% of mass 198	2.79	2.79	Ok
441	0-100% of mass 443	9.90	90.27	Ok
442	Greater than 40% of mass 198	61.52	61.52	Ok
443	17-23% of mass 442	10.97	17.83	Ok

Injection Date: 06/07/94
Injection Time: 08:10
Data File: >SD701
Scan: 34

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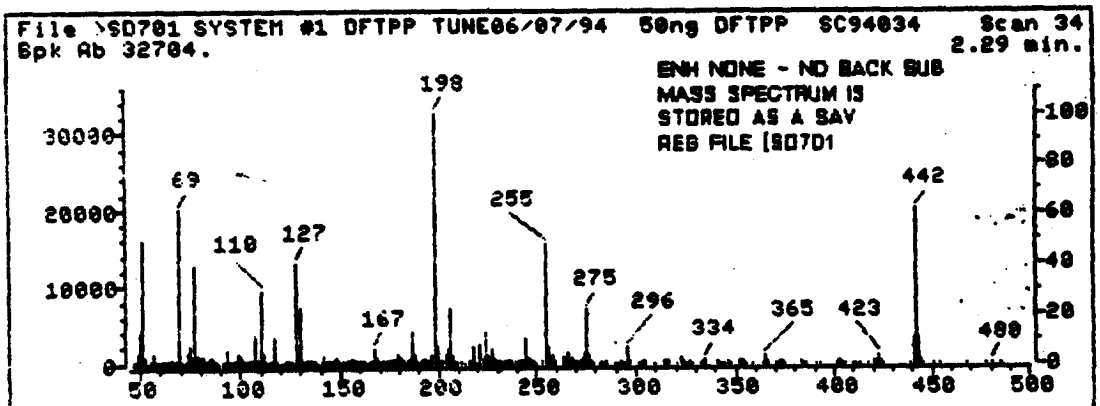

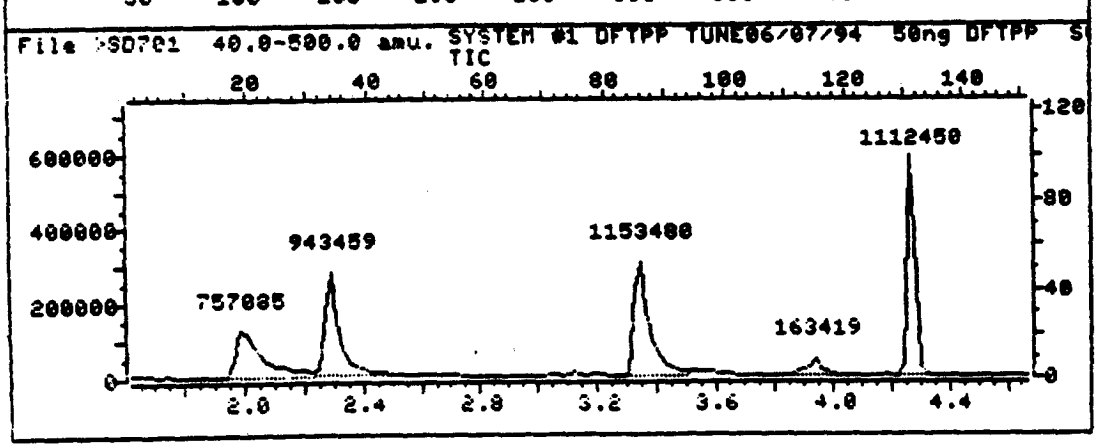

009127

9127

.0701 SYSTEM #1 DFTPP TUNE16/07/94 50ng DFTPP SC940346
34 NRM

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File: >SD701 Scan #: 34 Retn. time: 2.29

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
40.95	.523	106.05	.581	168.95	.645	238.95	.327	326.95	.453
42.05	.190	107.05	11.482	170.15	.177	240.05	.165	327.95	.214
42.95	.612	108.05	1.825	171.05	.242	241.05	.300	331.85	.128
43.95	.624	109.05	.535	172.05	.492	242.05	.605	332.95	.287
44.85	.223	110.05	29.275	173.05	.538	243.05	.685	333.95	1.092
46.95	1.037	111.05	4.076	174.05	.985	244.00	9.577	334.95	.315
47.75	.483	112.05	.480	175.05	1.608	245.00	1.116	341.00	.257
48.95	3.593	113.05	.116	176.05	.667	246.00	1.926	341.90	.118
49.95	12.359	114.95	.333	177.05	1.128	247.00	.471	343.30	.046
50.95	49.688	116.05	.792	177.95	.229	248.00	.089	344.10	.037
51.95	2.669	117.05	10.595	179.05	3.642	249.00	.349	345.90	.382
53.05	.187	118.05	.966	180.05	2.174	250.00	.092	347.00	.113
54.05	.092	118.90	.177	181.05	1.107	253.10	.226	351.10	.086
54.95	.584	119.90	.214	182.10	.242	255.00	47.431	351.90	.612
55.90	1.559	121.10	.211	183.10	.144	256.10	6.562	352.90	.391
56.90	3.932	122.00	.948	184.00	.232	257.10	.532	353.95	.550
58.00	.263	123.00	1.602	185.10	1.575	258.00	3.177	354.75	.128
58.90	.254	124.00	.599	186.10	12.420	259.00	.547	358.15	.034
59.90	.529	125.10	.572	187.10	3.446	263.85	2.498	363.25	.031
60.90	.890	127.00	40.356	188.10	.352	265.05	1.529	364.85	2.789
2.00	.633	128.00	3.495	189.00	.780	265.85	3.761	365.85	.437
3.00	1.593	129.00	22.279	190.10	.141	266.85	.346	369.80	.104
64.00	.272	130.00	2.278	191.10	.431	267.85	2.235	370.80	.180
65.00	1.177	131.00	.541	192.10	1.107	268.75	.217	371.90	1.018
66.00	.349	132.00	.758	193.10	1.137	269.85	.875	372.90	.229
67.00	.297	132.90	.453	194.00	.303	270.95	.196	374.10	.046
68.00	1.098	134.10	.599	195.00	.235	272.05	.321	382.80	.315
69.00	61.888	134.95	1.566	196.10	3.498	273.05	1.544	383.80	.080
70.00	.290	136.05	.590	197.95	100.000	274.05	3.743	384.30	.043
71.00	.465	137.05	.645	198.95	6.858	275.05	21.257	384.60	.034
71.85	.165	137.95	.171	199.95	.923	276.00	2.773	385.00	.040
72.95	.459	140.05	.239	201.85	1.037	276.90	1.847	389.85	.104
73.95	3.892	141.05	2.813	203.05	.841	278.00	.300	391.85	.043
74.95	7.011	142.05	.972	204.05	3.244	279.00	.040	400.75	.128
76.05	1.896	143.05	.816	205.05	5.354	282.00	.064	401.90	.355
77.05	39.286	144.05	.135	206.05	21.334	283.00	.235	402.80	.523
78.05	2.761	145.05	.290	207.05	2.893	284.00	.159	403.80	.187
78.95	3.397	146.05	.440	208.05	.835	285.00	.315	404.80	.064
79.95	2.477	147.05	1.119	209.15	.315	289.00	.080	409.80	.040
80.95	3.308	148.05	2.361	211.05	.939	290.00	.086	410.60	.046
81.95	.761	149.05	.584	213.20	.070	291.10	.092	413.00	.037
83.05	.960	150.00	.138	215.00	.278	291.95	.052	416.60	.043
83.95	2.156	151.10	.352	216.00	.407	292.15	.052	416.85	.043
85.05	.740	151.70	.217	217.00	6.589	292.95	.342	419.75	.046
85.95	2.039	151.90	.193	218.00	.862	294.05	.110	420.75	.501
97.00	.697	153.00	.792	218.80	.034	294.95	.187	421.75	.422
8.00	.391	154.00	.560	219.20	.064	295.95	6.265	421.95	.422
89.00	.162	155.10	1.306	221.10	7.161	296.95	.905	422.75	3.165
91.00	.991	156.10	1.492	223.00	1.358	301.05	.135	423.85	.712
92.00	.853	157.10	.419	224.10	12.044	301.95	.159	424.75	.086

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	.911	160.10	.642	[illegible]	5.443	[illegible]	.080	441.80	61.522
[illegible]	[illegible]	[illegible]	1.003	[illegible]	1.[illegible]	[illegible]	.095	442.80	10.971
[illegible]	.550	162.00	.272	229.05	1.037	314.00	.342	443.80	1.061
8.00	4.287	163.10	.101	229.95	.557	315.00	.749	445.00	.113
99.00	2.865	163.30	.095	231.05	.394	316.00	.379	450.55	.046
100.00	.477	164.00	.177	231.95	.281	321.00	.171	453.35	.040
101.00	1.844	165.00	1.981	233.95	.370	322.95	2.067	467.60	.043
102.00	.346	166.05	.679	234.95	.505	323.95	.364	477.40	.034
103.05	.731	167.05	5.767	236.05	.245	324.95	.058	480.35	.070
103.95	.963	168.05	1.952	236.95	.498	325.75	.058	484.45	.043
104.95	1.073								

Instrument ID: SV-MS1 Analyzed on: 6/07/94 8:10

009129

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009129

9129

GC/MS PERFORMANCE STANDARD

Decafluorotriphenylphosphine (DFTPP)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
51	30-60% of mass 198	52.11	52.11	Ok
68	Less than 2% of mass 69	1.08	1.67	Ok
69	(reference only)	64.30	64.30	Ok
70	Less than 2% of mass 69	0.00	0.00	Ok
127	40-60% of mass 198	41.23	41.23	Ok
197	Less than 1% of mass 198	.50	.50	Ok
198	Base peak, 100% relative abundance	100.00	100.00	Ok
199	5-9% of mass 198	6.67	6.67	Ok
275	10-30% of mass 198	20.71	20.71	Ok
365	Greater than 1% of mass 198	2.76	2.76	Ok
441	0-100% of mass 443	9.13	87.09	Ok
442	Greater than 40% of mass 198	59.66	59.66	Ok
443	17-23% of mass 442	10.49	17.58	Ok

Injection Date: 06/08/94
Injection Time: 16:48
Data File: >SD702
Scan: 34

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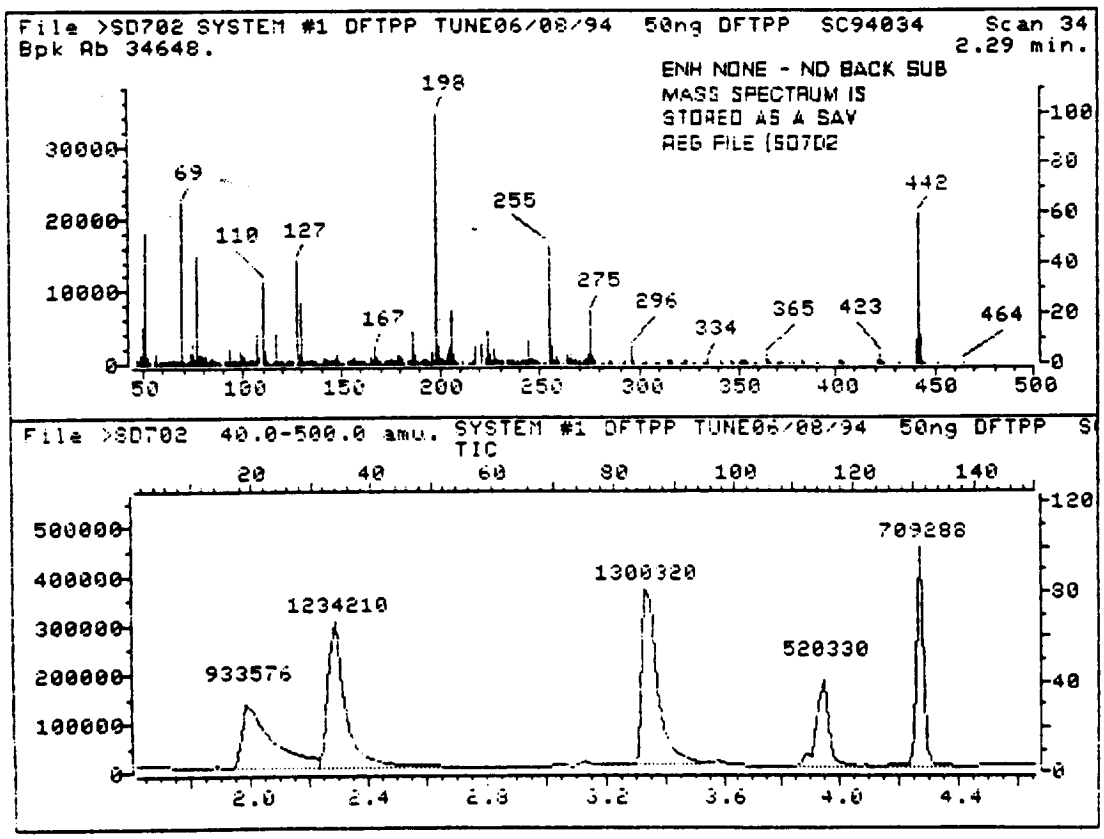

009130

9130

6-8-94

SYSTEM #1 DFTPP TUNE06/08/94 Jung DFTPP SC940345
NRM

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le: SD702 Scan #: 34 Retn. time: 2.29

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
40.95	.976	104.05	1.235	166.05	.799	231.95	.312	315.00	.522
41.85	.202	105.05	1.154	167.05	6.087	233.05	.139	316.00	.283
42.95	.771	106.05	.531	168.05	1.960	233.95	.372	321.00	.170
43.95	.621	106.95	11.934	168.95	.825	235.05	.442	322.00	.058
44.95	.185	108.05	1.908	170.05	.231	236.05	.271	322.95	1.657
46.95	1.178	110.05	32.928	171.05	.193	237.05	.398	323.85	.332
47.85	.430	111.05	4.768	171.95	.407	238.05	.089	326.85	.332
48.95	2.929	111.95	.372	173.05	.453	238.95	.294	327.95	.190
49.95	13.822	113.05	.124	174.05	1.126	239.95	.190	331.95	.147
50.95	52.113	113.95	.147	175.15	1.481	241.05	.277	332.85	.185
51.95	2.494	115.05	.332	176.05	.641	242.05	.626	333.95	1.126
52.95	.234	116.05	.748	177.05	.724	243.15	.488	334.85	.271
54.95	.851	117.05	11.207	178.05	.306	244.00	9.386	340.90	.251
55.90	1.761	118.05	.875	179.05	3.524	245.00	1.382	341.80	.063
56.90	4.075	118.90	.257	180.05	2.338	246.00	1.879	346.00	.407
57.90	.185	120.00	.312	181.05	1.143	247.00	.398	347.00	.075
58.90	.323	121.10	.139	182.10	.170	248.00	.063	350.80	.061
60.00	.595	122.00	.719	184.00	.240	249.00	.343	352.00	.534
60.90	.860	123.00	1.610	185.00	1.740	250.00	.055	352.90	.372
62.00	.730	124.00	.785	186.10	12.289	251.90	.144	353.95	.470
63.00	1.688	125.00	.638	187.00	3.432	253.00	.173	354.75	.081
64.00	.297	127.00	41.226	188.10	.292	255.00	46.790	355.05	.098
65.00	1.504	128.00	3.359	189.00	.739	256.00	6.413	358.45	.043
65.90	.300	129.00	23.978	189.90	.141	257.00	.531	358.75	.046
67.00	.352	130.00	2.756	191.10	.387	258.00	2.580	364.85	2.756
68.00	1.077	131.00	.817	192.00	1.105	259.00	.520	365.85	.326
68.90	64.304	132.00	.773	193.10	1.313	261.05	.089	366.75	.092
71.00	.661	132.90	.563	194.10	.315	263.85	2.958	369.65	.058
71.85	.190	134.10	.745	195.10	.136	265.05	1.356	370.70	.147
72.95	.470	135.05	1.553	196.10	3.668	265.85	5.059	371.00	.136
73.95	4.139	136.05	.664	196.90	.499	266.85	.367	371.80	.811
74.95	7.031	137.05	.788	197.95	100.000	267.85	3.129	372.90	.182
75.95	1.651	137.95	.075	198.95	6.670	268.85	.176	375.90	.038
77.05	42.499	139.05	.115	199.95	1.169	269.85	1.013	378.30	.058
78.05	3.313	140.05	.214	200.95	.603	270.95	.170	378.60	.052
79.95	3.567	140.95	2.488	201.85	1.264	271.95	.240	382.90	.266
79.95	2.621	142.05	1.100	202.95	.984	273.05	1.466	384.10	.107
80.95	3.541	143.05	.886	204.05	3.420	274.05	3.489	389.85	.170
82.05	.903	144.05	.118	205.05	5.414	275.05	20.708	390.75	.075
83.05	1.180	145.05	.231	206.05	21.190	276.00	2.424	390.95	.078
83.95	1.902	146.05	.416	207.05	3.111	277.00	1.455	391.75	.081
84.95	1.042	147.05	1.131	208.05	.820	278.00	.320	401.80	.407
85.95	1.668	148.05	2.932	209.15	.214	280.90	.035	402.80	.583
86.95	.797	149.05	.430	211.05	.776	282.10	.084	403.90	.202
88.00	.283	150.00	.136	214.30	.035	284.00	.127	420.85	.436
88.90	.190	151.10	.390	215.10	.208	285.00	.237	421.95	.393
.00	1.154	153.00	.750	216.00	.479	286.00	.081	422.85	3.284
92.00	.921	154.10	.574	217.00	6.549	288.90	.052	423.85	.615
93.00	5.475	155.00	1.328	218.00	.768	291.10	.058	424.85	.075
94.00	.494	156.10	1.965	221.00	7.135	292.95	.413	432.60	.032

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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	.615	158.10	.417	224.10	12.486	299.95	.814	441.80	59.663
[illegible]	.302	159.10	.367	225.10	3.022	301.05	.092	442.80	10.488
98.00	[illegible]	160.00	.736	226.10	.289	302.05	.107	443.80	.782
99.00	3.134	161.10	.984	227.10	5.311	303.05	.652	444.80	.052
0.00	.551	162.00	.283	228.00	1.068	307.90	.136	450.85	.029
101.00	2.043	163.00	.113	228.95	.932	308.90	.061	463.75	.043
102.00	.292	164.10	.124	229.85	.644	310.00	.087	464.00	.040
103.05	.823	165.00	2.572	231.05	.407	314.00	.268		

Instrument ID: SV-MS1 Analyzed on: 6/08/94 16:48

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009132

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CCC AND SPCC DAILY CALIBRATION CHECK OPERATOR REPORT BNA'S

DATA FILE NAME = >SK455::D5
DATE AND TIME OF ANALYSIS = 6/07/94 8:15
SAMPLE = Sys.#1 Calib. Check
MISCELLANEOUS = 06 07 94 50ug/L 8270/625 Cmpds. SC930281
METHOD = BNAMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER GRP

CCC COMPOUND	DAILY CAL RF	5-POINT AVE RF	%D
Pentachlorophenol	.2552	.2995	14.79
1,4-Dichlorobenzene	1.5074	1.4372	4.88
2-Nitrophenol	.2108	.2067	1.98
2,4-Dichlorophenol	.3708	.3751	1.17
Hexachlorobutadiene	.3272	.3890	15.89
4-Chloro-3-methylphenol	.3829	.3582	6.88
2,4,6-Trichlorophenol	.3874	.4695	17.49
Acenaphthene	1.1695	1.1138	5.00
N-Nitrosodiphenylamine	.4161	.3310	25.71
Fluoranthene	1.4798	1.4789	.06
Di-n-octylphthalate	1.1312	.9186	23.14
Benzo(a)pyrene	1.0541	.8862	18.95
Phenol	1.1498	1.1548	.43

SPCC COMPOUND	DAILY RF
N-Nitroso-di-n-propylamine	1.0598
Hexachlorocyclopentadiene	.4684
2,4-Dinitrophenol	.2308
4-Nitrophenol	.2474

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DAILY CALIBRATION FOR BNA'S PASSED ALL CCC AND SPCC CRITERIA

THE RF AND RT VALUES WILL AUTOMATICALLY BE UPDATED IN YOUR IDFILE

009133

6598

6/7/94

DATA FILE NAME = >SK455::D5
DATE AND TIME OF ANALYSIS = 6/07/94 8:25
SAMPLE = Sys.#1 Calib. Check
MISCELLANEOUS = 06 07 94 50ug/L 8270/625 Cmpds. SC930281
METHOD = BNAMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER GRP

COPIED FROM POOR QUALITY ORIGINAL

Compound Name	Retention Times: RRT FOUND	RRT IN THE IDFILE	RT DIFF-ERENCE	Response Factors: RF FOUND	AVE. RF FROM 5-POINT	RATIO RF FOUND TO RF IN IDFILE
Pyridine	.22890	.22891	.00003	.94371	.7856	1.1318
n-Nitrosodimethylamine	.23392	.23393	.00003	.44393	.4683	.82494
Aniline	.92202	.92205	.00023	1.3294	1.2841	1.0238
bis(2-Chloroethyl)ether	.95469	.95220	.02068	.84988	1.2798	1.0339
1,3-Dichlorobenzene	.98489	.98491	.00030	1.4349	1.4034	.98685
Benzyl alcohol	1.0654	1.0955	-.2439	.00851	.5551	.45385
1,2-Dichlorobenzene	1.0654	1.0653	.00073	1.4931	1.4664	1.0151
2-Methylphenol	1.1533	1.1508	.02113	1.0041	1.0267	.79270
bis(2-Chloroisopropyl)ether	1.1332	1.1331	.00072	2.5990	2.6962	.97249
4-Methylphenol	1.2036	1.2036	.00073	1.1335	1.0770	.99590
Hexachloroethane	1.1634	1.1633	.00070	.81596	.7670	1.0309
[illegible]robenzene	.85026	.84851	.02113	.46485	.3531	.93280
[illegible]phorone	.90660	.90661	.00080	.62435	.6456	1.0099
2-Nitrophenol	.92422	.92423	.00083	.21080	.2067	.96991
2,4-Dimethylphenol	.96119	.95944	.02130	.27128	.2519	1.0136
Benzoic acid	1.0176	1.0176	.00105	.30640	.2580	1.1252
bis(2-Chloroethoxy)methane	.97529	.97530	.00087	.42044	.4135	1.0140
2,4-Dichlorophenol	.98587	.98588	.00093	.37076	.3751	.97251
Naphthalene	1.0053	1.0035	.02148	.93082	.9296	.96116
4-Chloroaniline	1.0405	1.0405	.00120	.41848	.3600	.97070
Hexachlorobutadiene	1.0546	1.0546	.00123	.32719	.3890	.92139
2-Methylnaphthalene	1.1690	1.1690	.00131	.73567	1.0273	.93022
1-Methylnaphthalene	1.1937	1.1937	.00133	.91249	.7286	1.0906
Hexachlorocyclopentadiene	.86451	.86453	.00150	.46842	.4915	1.0625
2,4,6-Trichlorophenol	.88563	.88565	.00162	.38739	.4695	.93382
2,4,5-Trichlorophenol	.89435	.89312	.02213	.50451	.4911	.94720
2-Chloronaphthalene	.90432	.90434	.00167	1.1203	1.0541	1.0373
2-Nitroaniline	.94036	.94036	.00198	.46160	.3868	1.0411
Dimethylphthalate	.98011	.98000	.00386	1.4996	1.4332	1.0313
Acenaphthylene	.97389	.97265	.02253	1.8953	1.7238	1.0198
2,6-Dinitrotoluene	.99005	.99005	.00215	.36861	.3337	1.0483
3-Nitroaniline	1.0112	1.0112	.00217	.37062	.2798	1.0175
2,4-Dinitrophenol	1.0273	1.0274	.00215	.23082	.2086	1.0139
Dibenzofuran	1.0323	1.0323	.00213	1.8003	1.7128	1.0148
Diethylphthalate	1.0995	1.0995	.00227	1.8340	1.7321	1.0057
4-Chlorophenyl-phenylether	1.0970	1.0970	.00225	.76727	.7950	1.0129
Fluorene	1.0895	1.0895	.00220	1.3727	1.3320	.97133
[illegible]itroaniline	1.1156	1.1156	.00228	.43525	.3640	.98876
4,6-Dinitro-2-methylphenol	.90090	.90090	.00230	.16661	.1450	1.0805
N-Nitrosodiphenylamine	.90391	.90391	.00232	.41611	.3310	1.0604

DATA FILE NAME = [illegible]SK453::05
DATE AND TIME OF ANALYSIS = 6/07/94 [illegible]:25
SAMPLE = Sys.#1 Calib. Check
MISCELLANEOUS = 06 07 94 50ug/L 8270/625 Cmpds SF930281
METHOD = BNOMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER GRP

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Compound Name	Retention Times: RRT FOUND	RRT IN THE IDFILE	RT DIFF-ERENCE	Response Factors: RF FOUND	AVE. RF FROM 5-POINT	RATIO RF FOUND TO RF IN IDFILE
Azobenzene (1,2-D P.H)	.90391	.90391	.00232	.86585	.6811	1.0828
4-Bromophenyl-phenylether	.94697	.94696	.00253	.27478	.2894	1.0471
Hexachlorobenzene	.96098	.96098	.00258	.42702	.5034	1.0745
Phenanthrene	1.0040	1.0040	.00265	1.1274	1.0494	1.0262
Anthracene	1.0090	1.0090	.00268	1.1396	1.0195	1.0502
Carbazole	1.0400	1.0400	.00300	1.2045	.9455	1.0805
Di-n-butylphthalate	1.1040	1.1040	.00309	1.7397	1.5224	1.0398
Fluoranthene	1.1639	1.1639	.00303	1.4798	1.4789	1.0535
Benzidine	.88009	.87935	.02345	.16638	.1633	.85872
Butylbenzylphthalate	.95880	.95879	.00327	.70557	.5134	.93141
3,3'-Dichlorobenzidine	1.0044	1.0044	.00334	.44607	.3223	.92378
[illegible]za(a)anthracene	.99852	.99852	.00335	1.0981	1.0785	.91941
[illegible] (2-Ethylhexyl)phthalate	1.0207	1.0207	.00342	1.0193	.7860	.88903
Di-n-octylphthalate	.95314	.95312	.00333	1.1312	.9186	1.0073
Benzo(b)fluoranthene	.97135	.97134	.00312	1.3040	1.0595	.99489
Benzo(k)fluoranthene	.97331	.97330	.00312	.87115	.8219	1.0688
Benzo(a)pyrene	.99543	.99543	.00288	1.0541	.8862	.99573
Indeno(1,2,3-cd)pyrene	1.0748	1.0749	.00156	1.1267	1.1044	.98901
Dibenz(a,h)anthracene	1.0775	1.0769	.02208	.88148	.7700	.98133
Benzo(g,h,i)perylene	1.0938	1.0938	.00129	.95815	.9707	.96512
Phenol	.96476	.96479	.00025	1.1498	1.1548	.93029
2-Chlorophenol	.95217	.95220	.00025	1.0894	1.0566	1.0107
1,4-Dichlorobenzene	1.0050	1.0050	.00052	1.5074	1.4372	1.0171
N-Nitroso-di-n-propylamine	1.1860	1.1860	.00072	1.0598	1.0073	1.0248
1,2,4-Trichlorobenzene	.99470	.99470	.00098	.43463	.4624	.98786
4-Chloro-3-methylphenol	1.1796	1.1761	.04220	.38286	.3582	.90129
Acenaphthene	1.0050	1.0050	.00218	1.1695	1.1138	1.0145
4-Nitrophenol	1.0671	1.0622	.08383	.24742	.2233	1.0766
2,4-Dinitrotoluene	1.0535	1.0535	.00220	.55399	.5273	.99457
Pentachlorophenol	.99097	.99097	.00260	.25521	.2995	1.0783
Pyrene	.87714	.87713	.00302	1.0691	.8979	.91907
2-Fluorophenol (SURR)	.60811	.60561	.02058	.64580	.6642	1.0086
Phenol-d5 (SURR)	.96224	.96227	.00025	1.0320	1.0192	.98386
Nitrobenzene-d5 (SURR)	.84497	.84498	.00073	.31733	.3262	1.0231
2-Fluorobiphenyl (SURR)	.89685	.89687	.00163	1.0645	1.0843	1.0672
2,4,6-Tribromophenol (SURR)	.91494	.91494	.00233	.24198	.3232	1.1057
[illegible]phenyl-d14 (SURR)	.90143	.90143	.00310	.76116	.7803	.91670

[CCC AND SPCC DAILY CALIBRATION CHECK OPERATOR REPORT BNA 5]

DATA FILE NAME = SK456::D5
DATE AND TIME OF ANALYSIS = 6/08/94 17:06
SAMPLE = Sys.#1 Calib. Check
MISCELLANEOUS = 06 08 94 50ug/L 8270/625 Cmpds. SC930281
METHOD = BNAMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER GRP

CCC COMPOUND	DAILY CAL RF	5-POINT AVE RF	%D
Pentachlorophenol	.2611	.2995	12.83
1,4-Dichlorobenzene	1.4939	1.4372	3.95
2-Nitrophenol	.2159	.2067	4.47
2,4-Dichlorophenol	.3879	.3751	3.29
Hexachlorobutadiene	.3543	.3890	8.93
4-Chloro-3-methylphenol	.4250	.3582	18.64
2,4,6-Trichlorophenol	.4193	.4695	10.70
Acenaphthene	1.1447	1.1138	2.77
N-Nitrosodiphenylamine	.4032	.3310	21.82
Fluoranthene	1.4448	1.4789	2.31
Di-n-octylphthalate	1.1869	.9186	29.21
Benzo(a)pyrene	.9850	.8862	11.15
Phenol	1.3013	1.1548	12.69

SPCC COMPOUND	DAILY RF
N-Nitroso-di-n-propylamine	1.0025
Hexachlorocyclopentadiene	.2076
2,4-Dinitrophenol	.2066
4-Nitrophenol	.2155

009136

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DAILY CALIBRATION FOR BNA'S PASSED ALL CCC AND SPCC CRITERIA

THE RF AND RT VALUES WILL AUTOMATICALLY BE UPDATED IN YOUR IDFILE

[RRT AND RF DAILY CALIBRATION GC/MS OPERATOR REPORT BNA'S PAGE 1]

DATA FILE NAME = SK456::D5
DATE AND TIME OF ANALYSIS = 6/08/94 17:06
SAMPLE = Sys.#1 Calib. Check
MISCELLANEOUS = 06 08 94 50ug/L 8270/625 Cmpds. SC930281
METHOD = BNAMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER GRP

Compound Name	Retention Times: RRT FOUND	RRT IN THE IDFILE	RT DIFF-ERENCE	Response factors: RF FOUND	AVE. RF FROM 5-POINT	RATIO RF FOUND TO RF IN IDFILE
Pyridine	.23088	.22890	.02090	.60982	.7856	.64619
n-Nitrosodimethylamine	.23339	.23392	.00050	.44100	.4683	.99339
Aniline	.91972	.92202	.00053	1.3031	1.2841	.98025
bis(2-Chloroethyl)ether	.95231	.95469	.00053	.86930	1.2798	1.0229
1,3-Dichlorobenzene	.98243	.98489	.00055	1.4235	1.4034	.99202
Benzyl alcohol	1.0652	1.0654	.02062	.00921	.5551	1.0828
1,2-Dichlorobenzene	1.0652	1.0654	.02062	1.5132	1.4664	1.0135
2-Methylphenol	1.1529	1.1533	.02058	1.1856	1.0267	1.1807
bis(2-Chloroisopropyl)ether	1.1303	1.1332	.00018	2.4807	2.6962	.95449
4-Methylphenol	1.2030	1.2036	.02067	1.1122	1.0770	.98127
achloroethane	1.1604	1.1634	.00019	.73076	.7670	.89559
robenzene	.85025	.85026	.00025	.45880	.3531	.98698
Isophorone	.90836	.90660	.02073	.64947	.6456	1.0402
2-Nitrophenol	.92421	.92422	.00028	.21593	.2067	1.0243
2,4-Dimethylphenol	.96119	.96119	.00035	.25100	.2519	.92526
Benzoic acid	1.0194	1.0176	.02077	.28979	.2580	.94578
bis(2-Chloroethoxy)methane	.97529	.97529	.00038	.43092	.4135	1.0249
2,4-Dichlorophenol	.98587	.98587	.00037	.38788	.3751	1.0462
Naphthalene	1.0053	1.0053	.00035	.94404	.9296	1.0142
4-Chloroaniline	1.0405	1.0405	.00028	.43721	.3600	1.0448
Hexachlorobutadiene	1.0546	1.0546	.00031	.35426	.3890	1.0827
2-Methylnaphthalene	1.1708	1.1690	.02077	.76238	1.0273	1.0363
1-Methylnaphthalene	1.1937	1.1937	.00035	.83918	.7286	.91966
Hexachlorocyclopentadiene	.86453	.86451	.00028	.20758	.4915	.44313
2,4,6-Trichlorophenol	.88565	.88563	.00013	.41925	.4695	1.0822
2,4,5-Trichlorophenol	.89436	.89435	.00012	.56624	.4911	1.1224
2-Chloronaphthalene	.90558	.90432	.02058	1.1041	1.0541	.98552
2-Nitroaniline	.94036	.94036	-.0001	.45179	.3868	.97875
Dimethylphthalate	.98135	.98011	.02033	1.4547	1.4332	.97003
Acenaphthylene	.97389	.97389	-.0001	1.8165	1.7238	.95845
2,6-Dinitrotoluene	.99005	.99005	-.0001	.35641	.3337	.96690
3-Nitroaniline	1.0124	1.0112	.02035	.36614	.2798	.98790
2,4-Dinitrophenol	1.0286	1.0273	.02038	.20664	.2086	.89525
Dibenzofuran	1.0323	1.0323	-.0000	1.8019	1.7128	1.0009
Diethylphthalate	1.1007	1.0995	.02044	1.8163	1.7321	.99034
4 Chlorophenyl-phenylether	1.0982	1.0970	.02047	.74512	.7950	.97112
orene	1.0895	1.0895	-.0000	1.3984	1.3320	1.0187
4-Nitroaniline	1.1169	1.1156	.02042	.42293	.3640	.97169
4,6-Dinitro-2-methylphenol	.89999	.90090	-.0000	.14999	.1450	.90027
N-Nitrosodiphenylamine	.90300	.90391	-.0000	.40324	.3310	.96907

DATA FILE NAME = >SK456::D5
DATE AND TIME OF ANALYSIS = 6/08/94 17:06
SAMPLE = Sys.#1 Calib. Check
MISCELLANEOUS = 06 08 94 50ug/L 8270/625 Cmpds. SC930281
METHOD = BNAMS1
INSTRUMENT = SV-MS1
OPERATOR = DFM SUPER GRP

Compound Name	Retention Times: RRT FOUND	RRT IN THE IDFILE	RT DIFF-ERENCE	Response factors: RF FOUND	AVE. RF FROM 5-POINT	RATIO RF FOUND TO RF IN IDFILE
Azobenzene (1,2-D.P.H)	.90300	.90391	-.0000	.84400	.6811	.97476
4-Bromophenyl-phenylether	.94601	.94697	.00002	.26816	.2894	.97592
Hexachlorobenzene	.96001	.96098	.00002	.41007	.5034	.96029
Phenanthrene	1.0030	1.0040	.00005	1.0589	1.0494	.93923
Anthracene	1.0090	1.0090	.02057	1.0796	1.0195	.94727
Carbazole	1.0390	1.0400	-.0001	1.1177	.9455	.92797
Di-n-butylphthalate	1.1039	1.1040	.02040	1.6975	1.5224	.97574
Fluoranthene	1.1628	1.1639	.00002	1.4448	1.4789	.97634
Benzidine	.87944	.88009	.00010	.19914	.1633	1.1969
Butylbenzylphthalate	.95833	.95880	.02063	.69465	.5134	.98452
3,3'-Dichlorobenzidine	1.0044	1.0044	.02060	.43503	.3223	.97526
Benzo(a)anthracene	.99778	.99852	.00003	1.1189	1.0785	1.0189
bis(2-Ethylhexyl)phthalate	1.0206	1.0207	.02070	1.0228	.7860	1.0035
Di-n-octylphthalate	.95310	.95314	.00073	1.1869	.9186	1.0493
Benzo(b)fluoranthene	.97198	.97135	.02165	1.0452	1.0595	.80152
Benzo(k)fluoranthene	.97394	.97331	.02168	.81008	.8219	.92991
Benzo(a)pyrene	.99543	.99543	.00188	.98504	.8862	.93453
Indeno(1,2,3-cd)pyrene	1.0750	1.0748	.00615	.99294	1.1044	.88130
Dibenz(a,h)anthracene	1.0776	1.0775	.00626	.76692	.7700	.87003
Benzo(g,h,i)perylene	1.0946	1.0938	.02765	.82430	.9707	.86031
Phenol	.96486	.96476	.02097	1.3013	1.1548	1.1318
2-Chlorophenol	.95231	.95217	.02097	1.0951	1.0566	1.0052
1,4-Dichlorobenzene	1.0050	1.0050	.02085	1.4939	1.4372	.99101
N-Nitroso-di-n-propylamine	1.1830	1.1860	.00022	1.0025	1.0073	.94596
1,2,4-Trichlorobenzene	.99470	.99470	.00035	.44474	.4624	1.0233
4-Chloro-3-methylphenol	1.1778	1.1796	-.0201	.42498	.3582	1.1100
Acenaphthene	1.0062	1.0050	.02033	1.1447	1.1138	.97877
4-Nitrophenol	1.0659	1.0671	-.0204	.21552	.2233	.87109
2,4-Dinitrotoluene	1.0535	1.0535	-.0000	.54595	.5273	.98549
Pentachlorophenol	.98997	.99097	.00002	.26107	.2995	1.0229
Pyrene	.87723	.87714	.02053	1.0969	.8979	1.0260
2-Fluorophenol (SURR)	.60661	.60811	.00052	.66226	.6642	1.0255
Phenol-d5 (SURR)	.96235	.96224	.02097	1.0952	1.0192	1.0612
Nitrobenzene-d5 (SURR)	.84673	.84497	.02067	.32070	.3262	1.0106
2-Fluorobiphenyl (SURR)	.89686	.89685	.00010	1.0814	1.0843	1.0158
2,4,6-Tribromophenol (SURR)	.91401	.91494	-.0000	.22679	.3232	.93725
Terphenyl-d14 (SURR)	.90151	.90143	.02073	.68830	.7803	.90429

Calibration Report

Title: Semi-volatile Organics By EPA 8270/625 (SYSTEM #1)
Calibrated: 940518 14:20

Compound	Files: >A4365 RF 20.00	>A4366 RF 50.00	>A4367 RF 80.00	>A4368 RF 120.00	>A4369 RF 160.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CORR1	CORR2	
Pyridine	.81062	.77286	.86006	.65141	.83318	.230	.78562	10.381	.977498	.982908	
n-Nitrosodimethylamine	.52952	.48999	.43839	.40256	.48106	.235	.46830	10.460	.987477	.995294	
2-Fluorophenol (SURR)	.68819	.65100	.66195	.66118	.65859	.603	.66418	2.123	-	-	(Conc=200.0,200.0,
Phenol-d5 (SURR)	1.07170	1.02219	1.00279	1.00796	.99120	.957	1.01917	3.081	-	-	(Conc=200.0,200.0,
Phenol	1.21505	1.16467	1.18328	1.13483	1.07609	.960	1.15478	4.568	.998412	.999770	
Aniline	1.33300	1.29032	1.32912	1.25016	1.21774	.921	1.28407	3.896	.998893	.999740	
bis(2-Chloroethyl)ether	1.33237	1.27020	1.32912	1.24980	1.21774	.921	1.27985	3.915	.998839	.999628	
2-Chlorophenol	1.16484	1.07373	1.05424	1.03193	.95814	.950	1.05658	7.070	.997990	.999429	
1,3-Dichlorobenzene	1.52119	1.38098	1.43051	1.36870	1.31546	.984	1.40337	5.525	.998956	.999667	
1,4-Dichlorobenzene	1.59056	1.44770	1.44231	1.38386	1.32150	1.006	1.43719	6.948	.999032	.999865	
Benzyl alcohol	.52226	.53384	.56798	.55979	.59176	1.084	.55513	4.985	.999084	.999639	
1,2-Dichlorobenzene	1.59707	1.48181	1.44506	1.42006	1.38812	1.065	1.46643	5.502	.999871	.999989	
2-Methylphenol	1.05766	1.03426	1.02974	1.00800	1.00361	1.146	1.02665	2.127	.999938	.999978	
bis(2-Chloroisopropyl)ether	2.73474	2.68871	2.77480	2.66845	2.61408	1.133	2.69615	2.289	.999428	.999856	
4-Methylphenol	1.11901	1.09579	1.08606	1.05364	1.03059	1.199	1.07702	3.250	.999650	.999990	
N-Nitroso-di-n-propylamine	1.01935	1.01518	1.01054	1.00220	.98900	1.184	1.00725	1.194	.999918	.999997	
Hexachloroethane	.86709	.76924	.76364	.72506	.71021	1.162	.76705	7.988	.999639	.999891	
Nitrobenzene-d5 (SURR)	.33605	.32333	.32934	.31783	.32434	.845	.32618	2.106	-	-	(Conc=100.0,100.0,
Nitrobenzene	.39186	.35634	.33371	.35046	.33294	.850	.35306	6.795	.998909	.998936	
Isophorone	.66643	.63753	.64166	.64015	.64221	.908	.64560	1.826	.999973	.999990	
2-Nitrophenol	.20951	.20372	.20674	.20620	.20738	.924	.20671	1.012	.999966	.999983	
2,4-Dimethylphenol	.25664	.25891	.25239	.24982	.24152	.959	.25186	2.692	.999500	.999946	
Benzoic acid	.17528	.22189	.28929	.30403	.29961	1.018	.25802	22.073	.998220	.998334	
bis(2-Chloroethoxy)methane	.43887	.41767	.41580	.40358	.39146	.976	.41348	4.276	.999537	.999964	
2,4-Dichlorophenol	.36947	.37331	.38544	.37766	.36986	.984	.37515	1.767	.999609	.999913	
1,2,4-Trichlorobenzene	.49121	.47630	.46237	.44318	.43916	.994	.46245	4.753	.999702	.999895	
Naphthalene	1.04396	.95917	.90930	.89155	.84426	1.004	.92965	8.173	.999065	.999808	
4-Chloroaniline	.48760	.40552	.36523	.30121	.24028	1.039	.35997	26.417	.959610	.987562	
Hexachlorobutadiene	.41958	.39395	.38820	.36940	.37384	1.055	.38899	5.101	.999704	.999707	
4-Chloro-3-methylphenol	.36317	.34454	.36170	.36231	.35952	1.172	.35825	2.172	.999809	.999810	
2-Methylnaphthalene	1.15254	1.05499	1.01602	.95237	.96065	1.169	1.02731	7.943	.999529	.999554	
1-Methylnaphthalene	.80441	.74355	.72941	.68914	.67642	1.194	.72859	6.948	.999509	.999888	
Hexachlorocyclopentadiene	.36864	.53507	.52697	.51971	.50695	.864	.49147	14.129	.998295	.999880	
2,4,6-Trichlorophenol	.48155	.46807	.49778	.45619	.44386	.884	.46949	4.495	.997808	.999264	
2,4,5-Trichlorophenol	.53846	.51847	.48317	.47457	.44085	.890	.49110	7.789	.997872	.999536	
2-Chloronaphthalene	1.20437	1.09812	1.08478	.97592	.90745	.905	1.05413	10.928	.995445	.999650	
2-Fluorobiphenyl (SURR)	1.12152	1.09349	1.06699	1.10158	1.03799	.897	1.08432	2.993	-	-1.0000	(Conc=100.0,100.0,

RF - Response Factor (Subscript is amount in ug/ml)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CORRn - Coefficient of Correlation (nth degree)

009139

9139

JM 5/18/94

Calibration Report

Title: Semi-volatile Organics By EPA 8270/625 (SYSTEM #1)
Calibrated: 940518 14:20

Compound	Files: >A4365 RF 20.00	>A4366 RF 50.00	>A4367 RF 80.00	>A4368 RF 120.00	>A4369 RF 160.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CORR1	CORR2	
2-Nitroaniline	.39684	.39388	.41233	.37398	.35703	.939	.38681	5.565	.996486	.999354	
Dimethylphthalate	1.50380	1.45795	1.44586	1.41962	1.33872	.981	1.43319	4.254	.998607	.999711	
Acenaphthylene	1.92175	1.79114	1.77621	1.63653	1.49357	.973	1.72384	9.492	.994827	.999466	
2,6-Dinitrotoluene	.33657	.34193	.36016	.32805	.30193	.990	.33373	6.387	.993743	.999134	
3-Nitroaniline	.36200	.29210	.28129	.25032	.21341	1.010	.27983	19.727	.986200	.996347	
Acenaphthene	1.29301	1.15393	1.14209	1.02435	.95581	1.005	1.11384	11.662	.995751	.999594	
2,4-Dinitrophenol	.08385	.18829	.25308	.25277	.26522	1.026	.20864	36.431	.998873	.998912	
4-Nitrophenol	.20159	.23192	.23816	.22818	.21686	1.054	.22334	6.457	.997579	.999901	
Dibenzofuran	1.97721	1.77685	1.73706	1.59567	1.47731	1.033	1.71282	11.069	.996312	.999749	
2,4-Dinitrotoluene	.51840	.53079	.55211	.52926	.50581	1.053	.52727	3.247	.998362	.999773	
Diethylphthalate	1.96520	1.83259	1.68491	1.68135	1.49668	1.101	1.73215	10.192	.995051	.997795	
4-Chlorophenyl-phenylether	.89555	.84486	.81569	.71904	.69990	1.097	.79501	10.493	.996690	.999005	
Fluorene	1.53313	1.35504	1.37016	1.23852	1.16299	1.090	1.33197	10.600	.996462	.999469	
4-Nitroaniline	.38117	.36538	.36516	.37548	.33275	1.116	.36399	5.152	.994568	.996539	
4,6-Dinitro-2-methylphenol	.12875	.14994	.15512	.15717	.13379	.901	.14496	8.893	.988262	.993579	
N-Nitrosodiphenylamine	.43238	.37084	.29559	.30083	.25515	.904	.33096	21.248	.988768	.992443	
Azobenzene (1,2-D.P.H)	.85931	.76483	.63232	.61523	.53400	.904	.69114	19.019	.991179	.996549	
2,4,6-Tribromophenol (SURR)	.30453	.33841	.32009	.33655	.31657	.914	.32323	4.408	-	-	(Conc=200.0,200.0,
4-Bromophenyl-phenylether	.30716	.30732	.28920	.27779	.26574	.947	.28944	6.302	.998679	.999953	
Hexachlorobenzene	.54436	.53610	.49054	.48976	.45623	.961	.50340	7.247	.997992	.999319	
Pentachlorophenol	.29662	.29204	.30092	.31723	.29059	.990	.29948	3.580	.996973	.997653	
Phenanthrene	1.17282	1.07000	1.02953	1.03027	.94418	1.003	1.04936	7.900	.997507	.998817	
Anthracene	1.19753	1.07979	.95861	.97035	.89100	1.009	1.01946	11.808	.997568	.998559	
Carbazole	1.13094	.95619	.83569	.92993	.87453	1.039	.94545	12.041	.996708	.996838	
Di-n-butylphthalate	1.75391	1.66722	1.49768	1.46011	1.23298	1.104	1.52238	13.253	.987478	.994409	
Fluoranthene	1.67976	1.61596	1.43612	1.44844	1.21431	1.163	1.47892	12.278	.987223	.992452	
Benzidine	.14960	.18206	.17173	.15862	.15427	.878	.16326	8.185	.996482	.999456	
Pyrene	1.09095	.95257	.85750	.80105	.78755	.877	.89792	14.026	.999321	.999578	
Terphenyl-d14 (SURR)	.78828	.78442	.76193	.76136	.80541	.902	.78028	2.404	-	-	(Conc=100.0,100.0,
Butylbenzylphthalate	.57240	.53556	.51465	.50138	.44296	.959	.51339	9.230	.993754	.997770	
3,3'-Dichlorobenzidine	.32487	.38898	.33545	.31134	.25076	1.004	.32228	15.409	.968661	.989138	
Benzo(a)anthracene	1.17186	1.14295	1.06213	1.05288	.96249	.998	1.07846	7.654	.996862	.999035	
Chrysene	1.10094	1.08498	.94838	.89446	.80966	1.003	.96768	12.888	.993966	.999394	
bis(2-Ethylhexyl)phthalate	.84909	.88091	.76720	.75874	.67409	1.021	.78600	10.377	.993086	.997846	
Di-n-octylphthalate	1.19042	1.10516	.89021	.79184	.61550	.954	.91863	25.380	.956691	.981395	
Benzo(b)fluoranthene	.96466	1.17672	1.11337	1.08191	.96079	.972	1.05949	8.940	.991626	.998484	
Benzo(k)fluoranthene	1.22032	.80230	.64166	.53174	.91370	.974	.82195	32.431	.911641	.991180	

RF - Response Factor (Subscript is amount in ug/ml)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

..RRn - Coefficient of Correlation (nth degree)

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009140

9140

Calibration Report

Title: Semi-volatile Organics By EPA 8270/625 (SYSTEM #1)
Calibrated: 940518 14:20

Compound	Files: >A4365 RF 20.00	>A4366 RF 50.00	>A4367 RF 80.00	>A4368 RF 120.00	>A4369 RF 160.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CORR1	CORR2
Benzo(a)pyrene	1.00793	.94780	.86272	.89041	.72227	.996	.88623	12.107	.982511	.986545
Indeno(1,2,3-cd)pyrene	.91140	1.20045	1.17419	1.16288	1.07290	1.075	1.10437	10.691	.995690	.999465
Dibenz(a,h)anthracene	.61738	.89266	.88908	.79398	.65676	1.077	.76997	16.672	.970717	.992842
Benzo(g,h,i)perylene	.83036	1.06664	1.03696	1.02422	.89555	1.094	.97074	10.531	.990177	.997190

009141

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POOR QUALITY
ORIGINAL

RF - Response Factor (Subscript is amount in ug/ml)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CORRn - Coefficient of Correlation (nth degree)

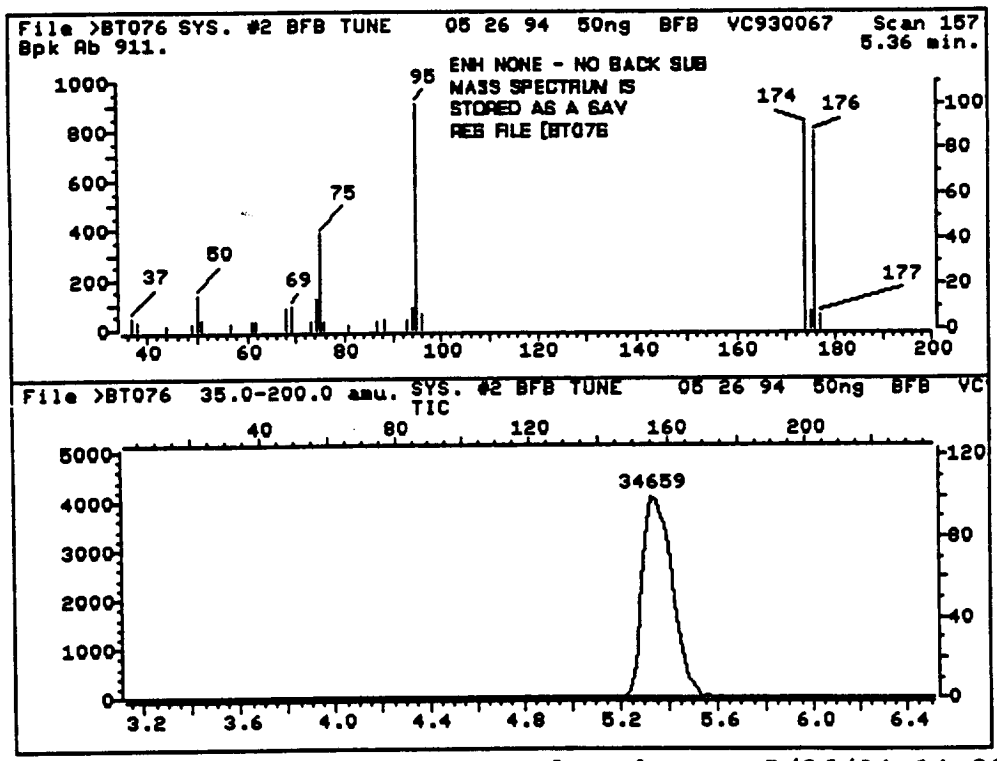
GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
50	15-40% of mass 95	15.26	15.26	Ok
75	30-60% of mass 95	42.26	42.26	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	6.92	6.92	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	90.34	90.34	Ok
175	5-9% of mass 174	7.14	7.90	Ok
176	95-101% of mass 174	86.72	95.99	Ok
177	5-9% of mass 176	5.71	6.58	Ok

009142

Injection Date: 05/26/94
Injection Time: 14:28
Data File: >BT076
Scan: 157



Instrument ID: VOA II Analyzed on: 5/26/94 14:28

MJH 052694

009142

9142

>BT076 SYS. #2 BFB TUNE 05 26 94 50ng BFB VC930067
157 NRM

File: >BT076 Scan #: 157 Retn. time: 5.36

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
37.00	4.940	56.80	2.305	72.95	3.074	86.80	2.964	95.95	6.915
38.10	3.183	61.00	3.183	74.05	13.172	88.05	4.061	173.90	90.340
43.85	1.647	61.90	2.744	74.95	42.261	93.05	4.061	175.00	7.135
48.95	2.415	67.95	8.891	75.95	3.074	93.95	9.330	175.90	86.718
49.95	15.258	69.05	9.879	80.80	1.756	94.95	100.000	176.90	5.708
50.95	3.732								

Instrument ID: VOA II Analyzed on: 5/26/94 14:28

009143

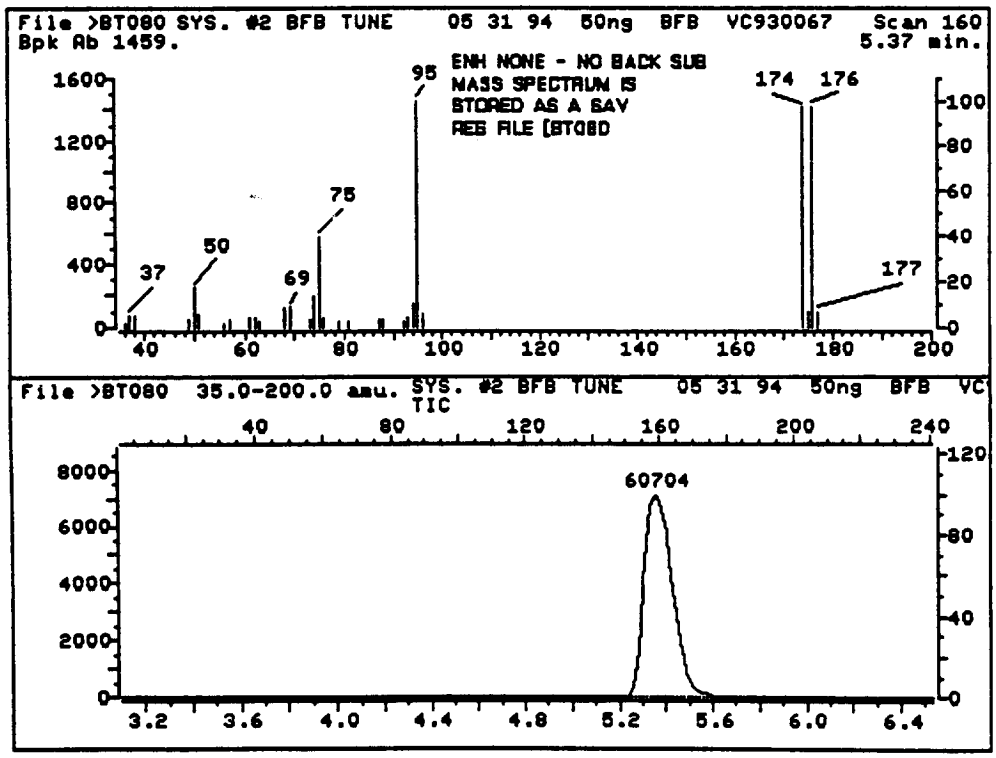
GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
50	15-40% of mass 95	17.14	17.14	Ok
75	30-60% of mass 95	39.48	39.48	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	6.03	6.03	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	96.85	96.85	Ok
175	5-9% of mass 174	6.58	6.79	Ok
176	95-101% of mass 174	97.53	100.71	Ok
177	5-9% of mass 176	6.85	7.03	Ok

009144

Injection Date: 05/31/94
Injection Time: 14:57
Data File: >BT080
Scan: 160



Instrument ID: VOA II Analyzed on: 5/31/94 14:57

MJH 06/01/94

009144

9144

>BT080 SYS. #2 BFB TUNE 05 31 94 50ng BFB VC930067
160 NRM

File: >BT080 Scan #: 160 Retn. time: 5.37

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
36.00	1.371	55.90	1.371	68.95	8.773	80.90	1.988	94.95	100.000
37.00	5.003	56.90	3.084	72.95	3.016	86.90	3.016	95.95	6.032
38.00	4.661	61.00	4.249	73.95	13.639	87.95	3.427	173.90	96.847
48.95	3.496	62.00	3.770	74.95	39.479	91.95	2.605	174.90	6.580
49.95	17.135	63.00	2.536	75.95	3.633	92.95	3.907	175.90	97.533
51.05	5.552	67.95	8.019	78.90	2.056	93.95	10.212	176.90	6.854

Instrument ID: VOA II Analyzed on: 5/31/94 14:57

009145

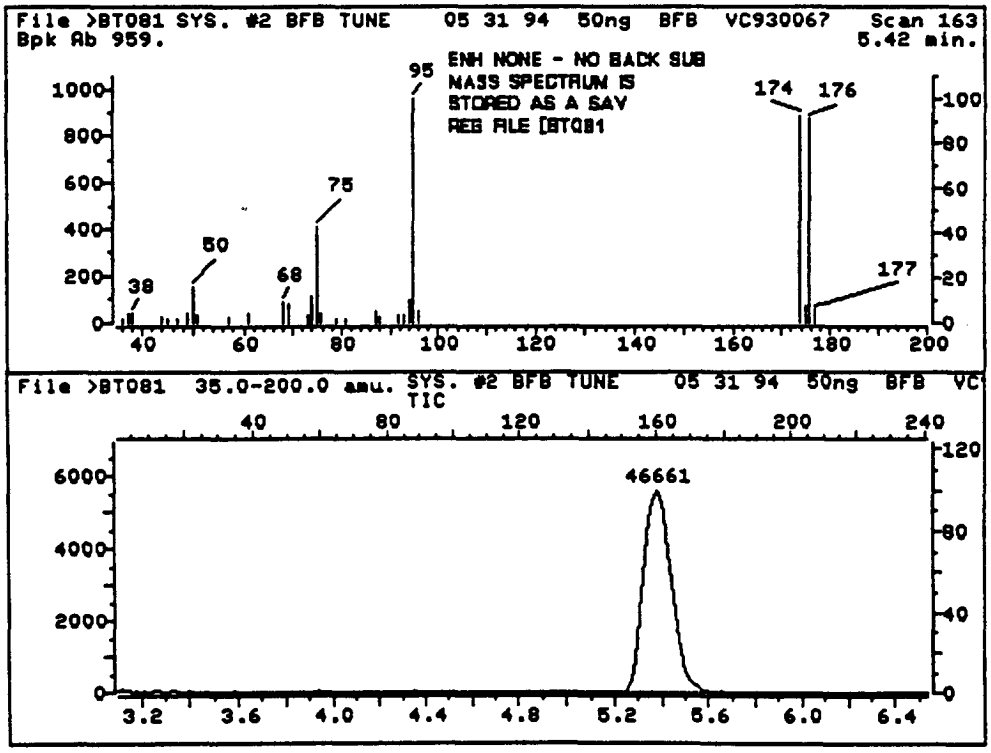
GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
50	15-40% of mass 95	15.95	15.95	Ok
75	30-60% of mass 95	42.86	42.86	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	5.11	5.11	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	92.28	92.28	Ok
175	5-9% of mass 174	7.72	8.36	Ok
176	95-101% of mass 174	91.14	98.76	Ok
177	5-9% of mass 176	5.53	6.06	Ok

009146

Injection Date: 06/01/94
Injection Time: 15:57
Data File: >BT081
Scan: 163



Instrument ID: VOA II Analyzed on: 6/01/94 15:57

009146

9146

>BT081 SYS. #2 BFB TUNE 05 31 94 50ng BFB VC930067
163 NRM

File: >BT081 Scan #: 163 Retn. time: 5.42

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
35.90	1.564	48.95	4.275	68.95	8.238	80.80	1.564	94.95	100.000
37.10	4.067	49.95	15.954	72.95	3.128	86.90	4.588	95.95	5.109
38.00	4.171	50.85	3.545	73.95	11.679	87.95	2.607	173.90	92.284
43.95	2.503	57.00	2.086	74.95	42.857	91.85	2.815	174.90	7.716
44.85	1.147	60.80	3.858	75.95	3.754	92.95	3.024	175.80	91.137
46.95	1.251	67.95	9.281	78.80	1.356	93.95	9.489	176.90	5.527

Instrument ID: VOA II Analyzed on: 6/01/94 15:57

009147

[CCC AND SPCC DAILY CALIBRATION CHECK OPERATOR REPORT VOA'S]

DATA FILE NAME = >BC068::D3
DATE AND TIME OF ANALYSIS = 5/26/94 14:44
SAMPLE = SYSTEM #2 CAL. CHEC
MISCELLANEOUS = 05 26 94 50ug/L Daily CCC/ CC940091
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

	Retention Times	Response factors	
CCC COMPOUND	DAILY CAL RF	5-POINT AVE RF	%D
Vinyl Chloride	.3474	.4307	19.35
1,1-Dichloroethene	.9325	.8655	7.74
Chloroform	2.7436	3.1233	12.16
1,2-Dichloropropane	.2211	.2366	6.56
Toluene	.6303	.7155	11.90
Ethylbenzene	.4295	.4683	8.28

009148

SPCC COMPOUND	DAILY RF
Chloromethane	.3145
1,1-Dichloroethane	1.5670
Bromoform	.4951
1,1,2,2-Tetrachloroethane	.5214
Chlorobenzene	1.0158

DAILY CALIBRATION CHECK FOR VOA II PASSED ALL CCC AND SPCC CRITERIA

THE RF AND RT VALUES WILL AUTOMATICALLY BE UPDATED IN YOUR IDFILE

NJH 05-26-94

[RRT AND RF DAILY CALIBRATION GC/MS OPERATOR REPORT VOA'S]

DATA FILE NAME = >BC068::D3
DATE AND TIME OF ANALYSIS = 5/26/94 14:44
SAMPLE = SYSTEM #2 CAL. CHEC
MISCELLANEOUS = 05 26 94 50ug/L Daily CCC/ CC940091
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

Compound Name	Retention Times: RRT FOUND	RRT IN THE IDFILE	RT DIFF-ERENCE	Response factors: RF FOUND	AVE. RF FROM 5-POINT	RATIO RF FOUND TO RF ON IDFILE
Dichlorodifluoromethane	.29169	.29195	.00293	.72071	.6521	.92838
Chloromethane	.32745	.32543	.02207	.31448	.3193	.95086
Vinyl Chloride	.32984	.33261	-.0169	.34737	.4307	1.0027
Bromomethane	.38705	.38528	.02112	.78149	.7574	.98687
Chloroethane	.38467	.38767	-.0178	.31429	.2877	.99739
Trichlorofluoromethane	.42046	.42358	-.0182	1.9185	3.7129	1.0693
Acrolein	.47767	.47624	.01990	.02695	.0323	.98494
Acetone	.48721	.48821	.00028	.18164	.1879	.97440
1,1-Dichloroethene	.50391	.50975	-.0389	.93251	.8655	1.0189
Methylene Chloride	.59689	.60070	-.0207	.92110	.7872	.89344
Carbon Disulfide	.60405	.60550	-.0014	1.5397	2.3779	1.0369
Methyl-t-Butyl Ether (MTBE)	.62556	.62706	-.0015	1.5109	2.4010	.92568
Acrylonitrile	.63035	.63185	-.0014	.09773	.0788	.98834
cis-1,2-Dichloroethene	.64949	.65102	-.0013	1.0693	.9269	1.0367
Hexane	.00000	.64834	-5.279	.00000	1.0607	******
1,1-Dichloroethane	.75443	.75630	-.0022	1.5670	1.8214	1.0245
trans-1,2-Dichloroethene	.90939	.91397	-.0217	1.2308	1.0646	1.0129
Chloroform	.94992	.95221	-.0023	2.7436	3.1233	1.0437
1,2-Dichloroethane	1.1860	1.1888	-.0025	1.7493	2.1113	1.0553
Vinyl Acetate	.59692	.59701	-.0022	.16226	.2023	1.0639
2-Butanone (MEK)	.68501	.68508	-.0023	.06905	.0635	1.0070
1,1,1-Trichloroethane	.83125	.82942	.01715	.60070	.8608	1.1096
Carbon Tetrachloride	.88186	.88379	-.0219	.58389	.8000	1.1523
Benzene	.92687	.92691	-.0025	.58121	.6323	1.0803
Trichloroethene	1.0694	1.0675	.01712	.46272	.4750	1.1014
1,2-Dichloropropane	1.1181	1.1181	-.0024	.22108	.2366	1.0577
Bromodichloromethane	1.1781	1.1781	-.0026	.57706	.6559	1.1039
1,4-Dioxane	1.1931	1.1931	-.0027	.00267	.0026	1.0421
Dibromomethane	1.1912	1.1893	.01687	.43745	.3882	1.0201
2-Chloroethyl vinyl ether	1.2718	1.2718	-.0031	.14560	.1591	1.0531
cis-1,3-Dichloropropene	1.3206	1.3206	-.0033	.38807	.4579	1.0822
trans-1,3-Dichloropropene	1.4574	1.4575	-.0038	.44354	.5560	1.0695
1,1,2-Trichloroethane	1.4949	1.4950	-.0037	.30505	.3287	1.0640
Dibromochloromethane	1.6262	1.6243	.01570	.65217	.7027	1.0933
1,2-Dibromoethane	1.6768	1.6768	-.0038	.44061	.4655	.95971
Bromoform	2.0610	2.0591	.01535	.49507	.5683	1.0458
4-Methyl-2-Pentanone	.71563	.71564	-.0031	.25319	.2677	.97330
Toluene	.78306	.78203	.01598	.63034	.7155	1.0890
2-Hexanone	.84627	.84629	-.0037	.14843	.1649	.85849
Tetrachloroethene	.87471	.87473	-.0037	.59575	.5830	1.0852
Chlorobenzene	1.0053	1.0053	-.0039	1.0158	1.0675	1.0797

Ethylbenzene	1.0169	1.0148	.03512	.42954	.4683	1.0466
m & p-Xylene	1.0274	1.0274	-.0038	.55018	.5878	1.0666
o-Xylene	1.0959	1.0959	-.0041	1.1617	1.3778	1.0615
Styrene	1.1043	1.1043	-.0041	.89205	.9495	1.0644
,2,2-Tetrachloroethane	1.1917	1.1917	-.0041	.52137	.5519	.99580
-Dichlorobenzene	1.3738	1.3737	-.0037	1.0249	1.1059	1.0067
1,4-Dichlorobenzene	1.3928	1.3916	.01580	1.1011	1.1635	.99936
1,2-Dichlorobenzene	1.4434	1.4432	-.0033	.90356	1.0049	.94753
1,2-Dibromo-3-chloropropane	1.5423	1.5422	-.0032	.09412	.1495	.61497
Naphthalene	1.6581	1.6580	-.0033	.17686	.9086	.18280
.....					0.0000	.....
1,2-Dichloroethane-d4 (SURR)	1.1574	1.1601	-.0025	1.4685	1.6926	.97850
Toluene-d8 (SURR)	.77040	.77148	-.0229	1.0395	1.0705	1.0138
Bromofluorobenzene (SURR)	1.1970	1.1970	-.0041	.82537	1.1903	.99482

009150

[CCC AND SPCC DAILY CALIBRATION CHECK OPERATOR REPORT VOA'S]

DATA FILE NAME = >B0872::D2
DATE AND TIME OF ANALYSIS = 5/31/94 17:30
SAMPLE = Sys.#2 5-PT CALIB.
MISCELLANEOUS = 05 31 94 50ug/L 10ul PURGE
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

	Retention Times	Response factors	
CCC COMPOUND	DAILY CAL RF	5-POINT AVE RF	%D
Vinyl Chloride	.2890	.2709	6.67
1,1-Dichloroethene	1.1920	1.1869	.43
Chloroform	2.5634	2.5029	2.42
1,2-Dichloropropane	.2212	.2193	.85
Toluene	.5945	.5949	.07
Ethylbenzene	.4027	.4000	.68

SPCC COMPOUND	DAILY RF
Chloromethane	.2067
1,1-Dichloroethane	1.5967
Bromoform	.5100
1,1,2,2-Tetrachloroethane	.4997
Chlorobenzene	.9598

FAILED THE DAILY CALIBRATION CHECK ON CCCS AND SPCCS
PRINTING THE DAILY CALIBRATION STATISTICS NOW

009151

[RRT AND RF DAILY CALIBRATION GC/MS OPERATOR REPORT VOA'S]

DATA FILE NAME = >B0872::D2
DATE AND TIME OF ANALYSIS = 5/31/94 17:30
SAMPLE = Sys.#2 5-PT CALIB.
MISCELLANEOUS = 05 31 94 50ug/L 10ul PURGE
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

	Retention Times			Response factors		
Compound Name	RRT FOUND	RRT IN THE IDFILE	RT DIFF-ERENCE	RF FOUND	AVE. RF FROM 5-POINT	RATIO RF FOUND TO RF IN IDFILE
Dichlorodifluoromethane	.47949	.47805	-.0341	1.5192	1.1776	1.2901
Chloromethane	.32909	.32728	-.0166	.20671	.1921	1.0761
Vinyl Chloride	.33148	.33062	-.0247	.28896	.2709	1.0666
Bromomethane	.38636	.38547	-.0297	.67711	.5809	1.1655
Chloroethane	.38636	.38594	-.0336	.26879	.2284	1.1767
Trichlorofluoromethane	.42217	.42126	-.0329	2.3072	2.0850	1.1066
Acrolein	.47710	.47948	-.0654	.06808	.0642	1.0601
Acetone	.48906	.49191	-.0704	.16226	.1514	1.0717
1,1-Dichloroethene	.50818	.50959	-.0603	1.1920	1.1869	1.0042
Trichlorotrifluoroethane	.47949	.47853	-.0380	3.5387	2.8063	1.2610
[illegible]hylene Chloride	.60131	.60599	-.0962	.84373	.8529	.98931
[illegible]bon Disulfide	.60609	.60599	-.0573	.08824	1.7306	.05099
Methyl-t-Butyl Ether (MTBE)	.62281	.62551	-.0820	1.6134	2.2753	.70909
Acrylonitrile	.00000	.87599	-7.225	.00000	.0019	.00000
trans-1,2-Dichloroethene	.65150	.65134	-.0611	.89049	.8893	1.0014
Hexane	.00000	.87602	-7.225	.00000	.1987	.00000
1,1-Dichloroethane	.75651	.75675	-.0745	1.5967	1.5404	1.0366
cis-1,2-Dichloroethene	.91166	.91175	-.0881	1.0612	1.0438	1.0167
Chloroform	.95226	.95277	-.0955	2.5634	2.5029	1.0242
1,2-Dichloroethane	1.1887	1.1875	-.1041	1.5709	1.4781	1.0627
Vinyl Acetate	.59728	.59941	-.0439	.39579	.3590	1.1025
2-Butanone (MEK)	.68530	.68820	-.0552	.06734	.0628	1.0725
1,1,1-Trichloroethane	.82954	.83023	-.0375	.60886	.6011	1.0130
Carbon Tetrachloride	.88200	.88194	-.0316	.62945	.6303	.99865
Benzene	.92511	.92617	-.0449	.60743	.6003	1.0118
Trichloroethene	1.0674	1.0674	-.0395	.47754	.4675	1.0215
1,2-Dichloropropane	1.1180	1.1176	-.0376	.22117	.2193	1.0084
Bromodichloromethane	1.1760	1.1769	-.0515	.54143	.5540	.97726
1,4-Dioxane	1.1930	1.1938	-.0519	.00245	.0030	.80408
Dibromomethane	1.1892	1.1900	-.0518	.51614	.5080	1.0160
Methyl methacrylate	1.1479	1.1476	-.0389	.19410	.1897	1.0229
2-Chloroethyl vinyl ether	1.2698	1.2702	-.0506	.15036	.1432	1.0502
cis-1,3-Dichloropropene	1.3204	1.3201	-.0449	.43278	.4028	1.0745
trans-1,3-Dichloropropene	1.4571	1.4572	-.0545	.39010	.3807	1.0247
1,1,2-Trichloroethane	1.4945	1.4940	-.0484	.31124	.2941	1.0581
Dibromochloromethane	1.6238	1.6240	-.0620	.63483	.6502	.97637
[illegible]-Dibromoethane	1.6762	1.6753	-.0525	.54368	.5170	1.0517
[illegible]moform	2.0582	2.0571	-.0631	.51004	.5187	.98332
4-Methyl-2-Pentanone	.71478	.71639	-.0397	.24720	.2299	1.0751
Toluene	.78219	.78237	-.0143	.59448	.5949	.99929
2-Hexanone	.84533	.84665	-.0362	.15681	.1446	1.0846

Tetrachloroethene	.87481	.87489	-.0138	.59282	.5870	1.0100
Chlorobenzene	1.0053	1.0057	-.0219	.95983	.9258	1.0367
Ethylbenzene	1.0148	1.0154	-.0257	.40272	.4000	1.0068
m & p-Xylene	1.0959	1.0957	-.0119	.24542	.2382	1.0305
o-Xylene	1.0959	1.0959	-.0158	1.1063	1.0807	1.0237
Styrene	1.1043	1.1043	-.0160	.85145	.8194	1.0391
1,1,2,2-Tetrachloroethane	1.1906	1.1913	-.0304	.49970	.4719	1.0589
1,3-Dichlorobenzene	1.3736	1.3740	-.0275	1.0571	1.0334	1.0229
1,4-Dichlorobenzene	1.3915	1.3919	-.0281	1.0840	1.0568	1.0258
1,2-Dichlorobenzene	1.4430	1.4431	-.0221	.95220	.9313	1.0224
1,2-Dibromo-3-chloropropane	1.5419	1.5423	-.0293	.15540	.1490	1.0430
Divinylbenzene	1.5335	1.5341	-.0329	.38298	.4332	.88403
Naphthalene	1.6566	1.6573	-.0366	.82628	.9869	.83724
.....					0.0000	.....
1,2-Dichloroethane-d4 (SURR)	1.1600	1.1584	-.0978	1.3638	1.2946	1.0535
Toluene-d8 (SURR)	.77059	.77097	-.0178	1.0214	1.0132	1.0080
Bromofluorobenzene (SURR)	1.1969	1.1964	-.0071	.86283	1.0669	.80871

[CCC AND SPCC DAILY CALIBRATION CHECK OPERATOR REPORT VOA'S]

DATA FILE NAME = >BC071::D2
DATE AND TIME OF ANALYSIS = 6/01/94 16:26
SAMPLE = SYSTEM #2 CAL. CHEC
MISCELLANEOUS = 06 01 94 50ug/L Daily CCC/ CC940091
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

	Retention Times	Response factors	
CCC COMPOUND	DAILY CAL RF	5-POINT AVE RF	%D
Vinyl Chloride	.2893	.2709	6.80
1,1-Dichloroethene	1.2577	1.1869	5.97
Chloroform	2.3443	2.5029	6.34
1,2-Dichloropropane	.2015	.2193	8.13
Toluene	.5599	.5949	5.88
Ethylbenzene	.3867	.4000	3.33

SPCC COMPOUND	DAILY RF
Chloromethane	.2510
1,1-Dichloroethane	1.4871
Bromoform	.4853
1,1,2,2-Tetrachloroethane	.4353
Chlorobenzene	.9102

FAILED THE DAILY CALIBRATION CHECK ON CCCS AND SPCCS
PRINTING THE DAILY CALIBRATION STATISTICS NOW

MJH

009154

[RRT AND RF DAILY CALIBRATION GC/MS OPERATOR REPORT VOA'S]

DATA FILE NAME = >BC071::D2
DATE AND TIME OF ANALYSIS = 6/01/94 16:26
SAMPLE = SYSTEM #2 CAL. CHEC
MISCELLANEOUS = 06 01 94 50ug/L Daily CCC/ CC940091
METHOD = VOAMS2
INSTRUMENT = VOA II
OPERATOR = CORE2 SUPER GRP

Compound Name	Retention Times: RRT FOUND	RRT IN THE IDFILE	RT DIFF-ERENCE	Response factors: RF FOUND	AVE. RF FROM 5-POINT	RATIO RF FOUND TO RF IN IDFILE
Dichlorodifluoromethane	.48683	.47805	.14260	.98087	1.1776	.83292
Chloromethane	.33687	.32728	.12733	.25101	.1921	1.3067
Vinyl Chloride	.33921	.33062	.11956	.28933	.2709	1.0679
Bromomethane	.39309	.38547	.11950	.73167	.5809	1.2595
Chloroethane	.39309	.38594	.11561	.28755	.2284	1.2588
Trichlorofluoromethane	.43059	.42126	.13892	2.0969	2.0850	1.0057
Acrolein	.48918	.47948	.15039	.06057	.0642	.94308
Acetone	.49857	.49191	.12703	.13492	.1514	.89105
1,1-Dichloroethene	.51265	.50959	.09969	1.2577	1.1869	1.0596
Trichlorotrifluoroethane	.48449	.47853	.11923	2.4142	2.8063	.86029
Methylene Chloride	.60873	.60599	.11109	.90781	.8529	1.0644
Carbon Disulfide	.60639	.60599	.09160	.08416	1.7306	.04863
Methyl-t-Butyl Ether (MTBE)	.63686	.62551	.18540	1.3791	2.2753	.60615
Acrylonitrile	.00000	.87599	-7.148	.00000	.0019	.00000
trans-1,2-Dichloroethene	.66266	.65134	.18889	.98852	.8893	1.1116
Hexane	.00000	.87602	-7.148	.00000	.1987	.00000
1,1-Dichloroethane	.76574	.75675	.18491	1.4871	1.5404	.96545
cis-1,2-Dichloroethene	.91800	.91175	.18472	1.1282	1.0438	1.0809
Chloroform	.95548	.95277	.16133	2.3443	2.5029	.93664
1,2-Dichloroethane	1.1804	1.1875	.11452	1.3730	1.4781	.92885
Vinyl Acetate	.60914	.59941	.16558	.32740	.3590	.91198
2-Butanone (MEK)	.69433	.68820	.13705	.05278	.0628	.84061
1,1,1-Trichloroethane	.83326	.83023	.11951	.55132	.6011	.91724
Carbon Tetrachloride	.88698	.88194	.14608	.59172	.6303	.93880
Benzene	.92775	.92617	.11439	.55643	.6003	.92687
Trichloroethene	1.0648	1.0674	.08519	.44806	.4675	.95841
1,2-Dichloropropane	1.1149	1.1176	.08932	.20147	.2193	.91852
Bromodichloromethane	1.1725	1.1769	.07792	.55306	.5540	.99825
1,4-Dioxane	1.1873	1.1938	.05839	.00189	.0030	.62183
Dibromomethane	.00000	1.1900	-12.37	.00000	.5080	.00000
Methyl methacrylate	1.1428	1.1476	.06998	.16868	.1897	.88896
2-Chloroethyl vinyl ether	1.2615	1.2702	.04269	.12442	.1432	.86907
cis-1,3-Dichloropropene	1.3134	1.3201	.06916	.36492	.4028	.90602
trans-1,3-Dichloropropene	1.4468	1.4572	.04411	.34525	.3807	.90692
1,1,2-Trichloroethane	1.4838	1.4940	.05133	.27128	.2941	.92227
Dibromochloromethane	1.6117	1.6240	.04170	.65614	.6502	1.0091
1,2-Dibromoethane	1.6617	1.6753	.03336	.46957	.5170	.90834
Bromoform	2.0377	2.0571	.01328	.48528	.5187	.93560
4-Methyl-2-Pentanone	.71820	.71639	.05422	.19832	.2299	.86249
Toluene	.78552	.78237	.08091	.55994	.5949	.94124
2-Hexanone	.84757	.84665	.04147	.12276	.1446	.84910

Tetrachloroethene	.87597	.87489	.04513	.58560	.5870	.99769
Chlorobenzene	1.0063	1.0057	.04045	.91020	.9258	.98314
Ethylbenzene	1.0158	1.0154	.03642	.38669	.4000	.96678
m & p-Xylene	1.0957	1.0957	.03197	.23492	.2382	.98640
[illegible]lene	1.0957	1.0959	.02807	1.0375	1.0807	.96009
S[illegible]rene	1.1041	1.1043	.02810	.80886	.8194	.98712
1,1,2,2-Tetrachloroethane	1.1903	1.1913	.01626	.43533	.4719	.92245
1,3-Dichlorobenzene	1.3732	1.3740	.02330	.98796	1.0334	.95600
1,4-Dichlorobenzene	1.3910	1.3919	.02320	1.0423	1.0568	.98627
1,2-Dichlorobenzene	1.4415	1.4431	.01168	.88631	.9313	.95168
1,2-Dibromo-3-chloropropane	1.5404	1.5423	.00777	.14334	.1490	.96200
Divinylbenzene	1.5319	1.5341	.00382	.45208	.4332	1.0435
Naphthalene	1.6549	1.6573	.00388	1.0407	.9869	1.0545
.....					0.0000	.....
1,2-Dichloroethane-d4 (SURR)	1.1546	1.1584	.13791	1.2079	1.2946	.93307
Toluene-d8 (SURR)	.77394	.77097	.07707	1.0124	1.0132	.99917
Bromofluorobenzene (SURR)	1.1966	1.1964	.03967	.84466	1.0669	.79168

009156

Calibration Report

Title: SYSTEM #2: VOLATILE ORGANICS BY EPA METHODS 8240 & 624
Calibrated: 940316 00:28

Compound	Files: >B0064 RF 10.00	>B0065 RF 50.00	>B0066 RF 100.00	>B0067 RF 250.00	>B0068 RF 500.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CORR1	CORR2	
Dichlorodifluoromethane	.59469	.68772	.68433	.64611	.64755	.304	.65208	5.768	.999911	.999915	
Chloromethane	.23029	.39471	.30983	.32574	.33596	.336	.31931	18.540	.999420	.999532	
Vinyl Chloride	.35721	.39906	.44298	.47226	.48203	.343	.43071	12.127	.999906	.999940	
Bromomethane	.36520	.84453	.91061	.81842	.84832	.394	.75742	29.291	.999520	.999525	
Chloroethane	.19956	.29597	.31443	.29338	.33503	.397	.28767	18.083	.998088	.999592	
Trichlorofluoromethane	5.00499	3.39048	3.47239	3.58588	3.11097	.431	3.71294	20.018	.997128	.999453	
Acrolein	.04111	.02995	.03091	.03098	.02863	.488	.03232	15.491	.999182	.999863	(Conc=100.0,500.0
Acetone	.26601	.17071	.17884	.16902	.15515	.500	.18795	23.658	.999053	.999908	(Conc=100.0,500.0,
1,1-Dichloroethene	.70625	.89529	.95813	.89701	.87067	.519	.86547	10.939	.999671	.999928	
Methylene Chloride	.81161	.79412	.81622	.74833	.76590	.612	.78724	3.731	.999785	.999812	
Carbon Disulfide	3.07029	2.23718	2.34267	2.37403	1.86546	.615	2.37792	18.367	.990697	.998487	(Conc=100.0,500.0,
Methyl-t-Butyl Ether (MTBE)	2.08761	2.54606	2.66012	2.35386	2.35719	.635	2.40097	9.090	.999608	.999650	
Acrylonitrile	.08992	.07453	.07979	.07745	.07253	.641	.07884	8.604	.999352	.999944	(Conc=100.0,500.0,
cis-1,2-Dichloroethene	.83656	.95247	.98947	.92579	.93040	.660	.92694	6.089	.999885	.999889	
Hexane	.97725	1.00081	1.00299	1.25529	1.06737	.657	1.06074	10.727	.995116	.998171	
1,1-Dichloroethane	2.25923	1.63569	1.69907	1.77308	1.73974	.762	1.82136	13.730	.999863	.999877	
trans-1,2-Dichloroethene	.92417	1.06134	1.15845	1.08694	1.09208	.914	1.06459	8.107	.999869	.999878	
Chloroform	4.05787	2.78088	2.87090	2.98866	2.91805	.955	3.12327	16.902	.999836	.999859	
1,2-Dichloroethane-d4 (SURR)	1.71455	1.68510	1.72624	1.69412	1.64292	1.155	1.69259	1.901	-	-	(Conc=50.0,50.0,50
1,2-Dichloroethane	2.64678	1.90025	2.00527	2.02648	1.97791	1.183	2.11134	14.356	.999878	.999920	
Vinyl Acetate	.21536	.19167	.20219	.20435	.19787	.605	.20229	4.334	.999828	.999955	(Conc=100.0,500.0,
Butanone (MEK)	.07934	.05851	.06137	.06093	.05750	.692	.06353	14.142	.999547	.999915	(Conc=100.0,500.0,
1,1,1-Trichloroethane	1.11000	.76257	.79289	.82308	.81569	.833	.86085	16.410	.999886	.999887	
Carbon Tetrachloride	1.01368	.70632	.74337	.76324	.77354	.884	.80003	15.269	.999874	.999928	
Benzene	.80173	.57800	.58510	.60883	.58767	.928	.63227	15.093	.999784	.999864	
Trichloroethene	.61831	.41944	.43521	.46218	.43975	1.066	.47498	17.174	.999542	.999733	
1,2-Dichloropropane	.30042	.21372	.21889	.22871	.22105	1.115	.23656	15.262	.999773	.999847	
Bromodichloromethane	.61380	.65122	.67922	.67154	.66379	1.174	.65591	3.920	.999961	.999993	
1,4-Dioxane	.00324	.00247	.00256	.00247	.00231	1.188	.00261	13.927	.999369	.999953	(Conc=500.0,2500.0
Dibromomethane	.34419	.39489	.41652	.38874	.39648	1.187	.38816	6.879	.999845	.999852	
2-Chloroethyl vinyl ether	.18702	.14223	.15277	.16077	.15267	1.265	.15909	10.650	.999513	.999784	
cis-1,3-Dichloropropene	.58599	.40637	.42201	.43995	.43528	1.314	.45792	15.892	.999878	.999878	
trans-1,3-Dichloropropene	.70181	.50200	.51587	.53788	.52243	1.447	.55600	14.843	.999813	.999862	
1,1,2-Trichloroethane	.43540	.29283	.31088	.30800	.29617	1.485	.32865	18.304	.999771	.999908	
Dibromochloromethane	.63534	.69451	.73732	.71523	.73126	1.613	.70273	5.857	.999924	.999950	
1,2-Dibromoethane	.38974	.48656	.50418	.46483	.48214	1.664	.46549	9.581	.999699	.999759	
Bromoform	.68200	.50769	.54849	.56702	.53624	2.041	.56829	11.812	.999481	.999814	

RF - Response Factor (Subscript is amount in ug/L)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CORRn - Coefficient of Correlation (nth degree)

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009157

9157

3-15-94

Calibration Report

Title: SYSTEM #2: VOLATILE ORGANICS BY EPA METHODS 8240 & 624
Calibrated: 940316 00:28

Compound	Files: >B0064 RF 10.00	>B0065 RF 50.00	>B0066 RF 100.00	>B0067 RF 250.00	>B0068 RF 500.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CORR1	CORR2	
4-Methyl-2-Pentanone	.31985	.23395	.24846	.30893	.22750	.719	.26774	16.221	.983175	.994527	(Conc=100.0,500.0,
Toluene-d8 (SURR)	1.07919	1.05613	1.06337	1.08965	1.06420	.773	1.07051	1.270	-	-	(Conc=50.0,50.0,50
Toluene	.97003	.65082	.64928	.67626	.63105	.784	.71549	20.014	.999352	.999756	
2-Hexanone	.20645	.15563	.16004	.15969	.14250	.847	.16486	14.748	.998211	.999785	(Conc=100.0,500.0,
Tetrachloroethene	.77196	.53315	.51942	.56932	.52118	.876	.58301	18.442	.998787	.999473	
Chlorobenzene	1.41357	.93457	.99232	1.04966	.94743	1.000	1.06751	18.607	.998408	.999526	
Ethylbenzene	.63706	.42038	.42658	.44344	.41410	1.016	.46831	20.278	.999348	.999752	
m & p-Xylene	.78073	.52729	.54666	.56301	.52144	1.027	.58783	18.557	.999180	.999758	(Conc=20.0,100.0,2
o-Xylene	1.81999	1.21835	1.27253	1.32343	1.25462	1.096	1.37778	18.151	.999544	.999784	
Styrene	1.23746	.84215	.90011	.92935	.83850	1.104	.94951	17.434	.998448	.999639	
1,1,2,2-Tetrachloroethane	.69475	.51071	.54458	.52890	.48070	1.190	.55193	15.092	.998706	.999876	
Bromofluorobenzene (SURR)	.79997	.88539	1.04359	1.38267	1.84005	1.195	1.19033	35.792	-	-	(Conc=50.0,50.0,50
1,3-Dichlorobenzene	1.44779	1.00168	1.02586	1.05689	.99704	1.372	1.10585	17.418	.999525	.999823	
1,4-Dichlorobenzene	1.52216	1.05967	1.10284	1.09645	1.03625	1.390	1.16347	17.392	.999588	.999905	
1,2-Dichlorobenzene	1.32660	.91864	.94472	.95656	.87783	1.441	1.00487	18.149	.999023	.999800	
1,2-Dibromo-3-chloropropane	.11084	.15817	.17157	.15869	.14840	1.539	.14953	15.479	.998952	.999945	
Naphthalene	.57396	1.01403	1.08017	.93662	.93798	1.653	.90855	21.609	.999337	.999450	

RF - Response Factor (Subscript is amount in ug/L)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

)RRn - Coefficient of Correlation (nth degree)

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009158

9158

Title: SYSTEM #1: VOLATILE ORGANICS BY EPA METHODS 8240 & 624
Calibrated: 940602 08:34

Compound	Files: >B0871 RF 10.00	>B0872 RF 50.00	>B0873 RF 100.00	>B0874 RF 250.00	>B0875 RF 500.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CORR1	CORR2	
Dichlorodifluoromethane	1.43957	1.51921	1.02484	.98854	.91598	.478	1.17763	23.748	.998311	.998971	
Chloromethane	~~.17101~~	~~.20671~~	~~.20029~~	~~.19428~~	~~.18818~~	.327	~~.19209~~	~~7.108~~	.999805	.999984	*
Vinyl Chloride	.26377	.28896	.28176	.26059	.25951	.331	.27092	4.989	.999851	.999870	
Bromomethane	.56947	.67711	.69940	.55761	.40108	.385	.58094	20.423	.976711	.998601	
Chloroethane	.19769	.26879	.28093	.23046	.16429	.386	.22843	21.275	.975769	.998047	
Trichlorofluoromethane	2.37193	2.30721	2.30632	2.26397	1.17561	.421	2.08501	24.452	.904254	.916220	
Acrolein	.05820	.06808	.06737	.06578	.06167	.479	.06422	6.515	.999362	.999997	(Conc=100.0,500.0,
Acetone	.16665	.16226	.15034	.14332	.13450	.492	.15141	8.754	.999460	.999984	(Conc=100.0,500.0,
1,1-Dichloroethene	1.03892	1.19197	1.23297	1.23436	1.23652	.510	1.18695	7.144	.999997	.999998	
Trichlorotrifluoroethane	3.48455	3.53873	2.45333	2.35039	2.20441	.479	2.80628	23.170	.998703	.999128	
Methylene Chloride	.88534	.84373	.87330	.85331	.80857	.606	.85285	3.477	.999572	.999985	
Carbon Disulfide	1.54159	1.76489	1.79471	1.88975	1.66213	.606	1.73061	7.700	.997433	.999629	(Conc=5.00,25.0,50
Methyl-t-Butyl Ether (MTBE)	2.21635	2.35552	2.28154	2.24765	-	.626	2.27527	2.626	.999938	.999978	
Acrylonitrile	-	.00160	.00203	.00218	.00197	.876	.00195	12.477	.997547	.999974	(Conc=100.0,500.0,
trans-1,2-Dichloroethene	.75664	.89049	.92812	.93129	.93983	.651	.88927	8.605	.999994	.999996	
Hexane	.19170	-	.20670	.20561	.19062	.876	.19866	4.369	.999058	.999961	
1,1-Dichloroethane	1.49221	1.59671	1.53510	1.57685	1.50090	.757	1.54035	2.977	.999657	.999941	
cis-1,2-Dichloroethene	.88825	1.06124	1.07534	1.09714	1.09691	.912	1.04378	8.456	.999997	.999998	
Chloroform	2.54874	2.56339	2.49141	2.48370	2.42713	.953	2.50288	2.189	.999934	.999995	
1,2-Dichloroethane-d4 (SURR)	1.31391	1.36381	1.29689	1.27407	1.22425	1.158	1.29459	3.965	-	-	(Conc=50.0,50.0,50
1,2-Dichloroethane	1.43739	1.57085	1.49864	1.49288	1.39087	1.187	1.47813	4.602	.999304	.999964	
Vinyl Acetate	.35995	.39579	.38505	.39018	.26405	.599	.35900	15.270	.971688	.992183	(Conc=100.0,500.0,
2-Butanone (MEK)	.06279	.06734	.06123	.06238	.06019	.688	.06279	4.365	.999808	.999935	(Conc=100.0,500.0,
1,1,1-Trichloroethane	.57511	.60886	.59994	.62124	.60017	.830	.60107	2.813	.999816	.999950	
Carbon Tetrachloride	.56289	.62945	.63666	.66877	.65372	.882	.63030	6.451	.999883	.999946	
Benzene	.58109	.60743	.59343	.61874	.60098	.926	.60033	2.367	.999856	.999942	
Trichloroethene	.44519	.47754	.46396	.48017	.47067	1.067	.46751	2.990	.999925	.999965	
1,2-Dichloropropane	.20148	.22117	.22248	.22889	.22266	1.118	.21934	4.752	.999874	.999972	
Bromodichloromethane	.44868	.54143	.57357	.59773	.60873	1.177	.55403	11.607	.999964	.999989	
1,4-Dioxane	.00213	.00245	.00218	.00351	.00495	1.194	.00304	39.566	.953042	.991728	(Conc=500.0,2500.0
Dibromomethane	.48329	.51614	.51234	.51980	.50860	1.190	.50804	2.845	.999929	.999989	
Methyl methacrylate	.18149	.19410	.19256	.19395	.18663	1.148	.18974	2.916	.999791	.999986	
2-Chloroethyl vinyl ether	.12965	.15036	.14624	.14557	.14404	1.270	.14317	5.527	.999971	.999992	
cis-1,3-Dichloropropene	.35107	.43278	.40045	.41724	.41230	1.320	.40277	7.732	.999923	.999937	
trans-1,3-Dichloropropene	.32354	.39010	.38858	.40939	.39183	1.457	.38069	8.677	.999670	.999915	
1,1,2-Trichloroethane	.27230	.31124	.30176	.30070	.28473	1.494	.29414	5.264	.999571	.999983	
Dibromochloromethane	.46711	.63483	.69015	.73159	.72730	1.624	.65020	16.834	.999938	.999955	

RF - Response Factor (Subscript is amount in ug/L)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CORRn - Coefficient of Correlation (nth degree)

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* Chloromethane 5-point RFs retained from previous calibration of 3/16/94. 6-2-94

009159

9159

Title: SYSTEM #1: VOLATILE ORGANICS BY EPA METHODS 8240 & 624
Calibrated: 940602 08:54

Compound	Files: >B0871 RF 10.00	>B0872 RF 50.00	>B0873 RF 100.00	>B0874 RF 250.00	>B0875 RF 500.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CORR1	CORR2	
1,2-Dibromoethane	.46169	.54368	.52903	.53988	.51048	1.675	.51695	6.475	.999538	.999954	
Bromoform	.35121	.51004	.54335	.59896	.58988	2.057	.51869	19.338	.999830	.999873	
4-Methyl-2-Pentanone	.22818	.24720	.22962	.22758	.21711	.716	.22994	4.720	.999695	.999971	(Conc=100.0,500.0,
Toluene-d8 (SURR)	1.01612	1.02138	1.00695	1.01556	1.00619	.771	1.01324	.642	-	-	(Conc=50.0,50.0,50
Toluene	.63552	.59448	.56785	.59635	.58028	.782	.59490	4.284	.999861	.999913	
2-Hexanone	.14560	.15681	.14672	.14181	.13197	.847	.14458	6.204	.999269	.999982	(Conc=100.0,500.0,
Tetrachloroethene	.58910	.59282	.57762	.59410	.58113	.875	.58695	1.238	.999923	.999969	
Chlorobenzene	.89599	.95983	.91209	.93438	.92677	1.006	.92581	2.595	.999971	.999975	
Ethylbenzene	.40341	.40272	.40150	.39951	.39276	1.015	.39998	1.075	.999962	1.00000	
m & p-Xylene	.23222	.24542	.23121	.24486	.23709	1.096	.23816	2.835	.999801	.999893	(Conc=20.0,100.0,2
o-Xylene	1.05947	1.10630	1.06946	1.10260	1.06550	1.096	1.08067	2.040	.999828	.999953	
Styrene	.73504	.85145	.82029	.85412	.83618	1.104	.81942	5.989	.999906	.999955	
1,1,2,2-Tetrachloroethane	.45144	.49970	.48714	.48733	.43400	1.191	.47192	5.897	.998024	.999870	
Bromofluorobenzene (SURR)	.78330	.86283	.94607	1.21144	1.53096	1.196	1.06692	28.618	-	-	(Conc=50.0,50.0,50
1,3-Dichlorobenzene	.99878	1.05714	1.03454	1.05626	1.02042	1.374	1.03343	2.397	.999831	.999971	
1,4-Dichlorobenzene	1.04192	1.08405	1.05562	1.07969	1.02280	1.392	1.05682	2.433	.999594	.999944	
1,2-Dichlorobenzene	.91221	.95220	.93437	.97639	.88138	1.443	.93131	3.922	.998461	.999763	
1,2-Dibromo-3-chloropropane	.11171	.15536	.16489	.16369	.14936	1.542	.14900	14.624	.998581	.999952	
Divinylbenzene	.37557	.38298	.47625	.48016	.45114	1.534	.43322	11.670	.999097	.999804	
Naphthalene	1.01817	.82628	1.09431	1.02443	.97133	1.657	.98690	10.128	.998995	.999670	

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RF - Response Factor (Subscript is amount in ug/L)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CORRn - Coefficient of Correlation (nth degree)

009160

9160