SEVERN TRENT SERVICES

STL Los Angeles
1721 South Grand Avenue
Santa Ana, CA 92705-4808

Tel: 714 258 8610
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July 17, 2001

STL LOT NUMBER: E1G090186
NELAC Certification Number: 01118CA
PO/CONTRACT: 05160-SEV002-S56

Scott Zachary
Haley & Aldrich Inc
9040 Friars Road
Suite 220
San Diego, CA 92108

Dear Mr. Zachary,

This report contains the analytical results for the three samples received under chain of custody by STL Los Angeles on July 9, 2001. These samples are associated with your BRC former C-6 Torrance Harbor Gateway project.

All applicable quality control procedures met method-specified acceptance criteria. See Project Receipt Checklist for container temperature and conditions. Temperature reading between 2 to 6 degrees Celsius is considered within acceptable criteria. Any matrix related anomaly is footnoted within the report.

STL Los Angeles certifies that the tests performed at our facility meet all the requirements of NELAC. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me at (714) 258-8610 extension 309.

Sincerely,

Diane Suzuki
Project Manager
CC: Project File

This report contains 000031 pages.

STL Los Angeles is a part of Severn Trent Laboratories, Inc.

ACCREDITED IN ACCORDANCE WITH nelac

BOE-C6-0093488

[redacted]

Q: 42295

Chain of Custody Record

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

STL-4124 (0700)

Client	Project Manager	Date	Chain of Custody Number
Haley + Aldrich	Scott Zachary	7/9/01	053369

Address	Telephone Number (Area Code)/Fax Number	Lab Number	Page 1 of 1
9040 Friars Rd	(619)	E1G090186	

City	State	Zip Code	Site Contact	Lab Contact
San Diego	CA	92108	Rich Farson	Diane Suzuki

Project Name and Location (State): Boeing C-6 Torrance CA

Carrier/Waybill Number:

Contract/Purchase Order/Quote No.:

Analysis (Attach list if more space is needed): 8260 + TICs per [illegible]

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Matrix: Aqueous	Matrix: Sed.	Matrix: Soil	Containers & Preservatives: Unpres.	H2SO4	HNOS	HCl	NaOH	ZnAc/NaOH	8260 + TICs per [illegible]	Special Instructions/ Conditions of Receipt
DDS-2-11/72'	7/9/01	1157		X						3			X	
DDS-2-11/86'	7/9/01	1246		X						3			X	
DDS-2-11/115'	7/9/01	1346		X						3			X	
Trip Blank	7/6/01			X						3			X	Provided by Lab

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A lee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other 5 DAY

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By: [signature]	7/9/01	1615	1. Received By: [signature]	7-9-01	1615
2. Relinquished By: [signature]	7-9-01	1715	2. Received By: [signature]	7/9/01	1715
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

000002

BOE-C6-0093489

STL – LOS ANGELES
PROJECT RECEIPT CHECKLIST

Date: 07-09-2001

Quantims Lot #: EIG090186
Client Name: Haley & Aldrich
Received by: Royce Suzuki
Delivered by : ☐Client ☐Airborne ☐Fed Ex ☐DHL ☐Ultra-Ex ☐Rey B. ☐UPS ☐DES ☒Other Mike

Quote #: 42295
Project: BOEING C-6
Date/Time Received: 07/09 1715

Initial / Date

Custody Seal Status: ☐Intact ☐Broken ☒None ..... AS 07/09
Custody Seal #(s): ☒No Seal # .....
Sample Container(s): ☒STL-LA ☐Client ☐N/A .....
Temperature(s) (COOLER/BLANK) in °C: 3.6 deg C (CORRECTED TEMP).....
Thermometer Used : ☒IR (Infra-red) ☐Digital (Probe) .....
Samples: ☐Intact ☐Broken ☐Other .....
Anomalies: ☐No ☐Yes (See Clouseau) .....
Labeled by .....
Labeling checked by .....

Turn Around Time: ☐RUSH–24HR ☐RUSH–48HR ☐RUSH–72HR ☒NORMAL .....
Short-Hold Notification: ☐Ph ☐Wet Chem ☐Metals (Filter/Pres) ☐Encore ☒N/A ...
Outside Analysis(es) (Test/Lab/Date Sent Out) :

N/A

********** LEAVE NO BLANK SPACES ; USE N/A **********

Fraction	1→3	4TB									PH
VOAh /*	3	3									N/A
		NOT RECIEVED									

k:HCl nx:Sodium Hydroxide zmax:Zinc Acetate/Sodium Hydroxide s: H2SO4 n:HNO3 n/f:HNO3-Field filtered n/fl:HNO3-Lab filtered
CGJ:Clear Glass Jar CGB:Clear Glass Bottle AGJ:Amber Glass Jar AGB:Amber Glass Bottle PB: Poly Bottle E:Encore Sampler V:VOA

* Number of VOA's w/ Headspace present

LOGGED BY/DATE: 07/09 REVIEWED BY/DATE: T Swart 7-10-01

R-SC

000003

BOE-C6-0093490

EXECUTIVE SUMMARY - Detection Highlights

E1G090186

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
DDS_2_11/72 07/09/01 11:57 001				
1,1-Dichloroethene	150	100	ug/L	SW846 8260B
1,1-Dichloroethene	120	20	ug/L	SW846 8260B
Chloroform	79 J	100	ug/L	SW846 8260B
Chloroform	73	20	ug/L	SW846 8260B
Trichloroethene	8200	100	ug/L	SW846 8260B
Trichloroethene	6200 E	20	ug/L	SW846 8260B
DDS_2_11/86 07/09/01 12:46 002				
Carbon disulfide	13 J	25	ug/L	SW846 8260B
Carbon disulfide	10	5.0	ug/L	SW846 8260B
1,1-Dichloroethene	16 J	25	ug/L	SW846 8260B
1,1-Dichloroethene	15	5.0	ug/L	SW846 8260B
Chloroform	9.5 J	25	ug/L	SW846 8260B
Chloroform	9.3	5.0	ug/L	SW846 8260B
Trichloroethene	1400	25	ug/L	SW846 8260B
Trichloroethene	1100 E	5.0	ug/L	SW846 8260B
DDS_2_11/115 07/09/01 13:46 003				
1,1-Dichloroethene	13 J	25	ug/L	SW846 8260B
1,1-Dichloroethene	11	5.0	ug/L	SW846 8260B
Chloroform	18 J	25	ug/L	SW846 8260B
Chloroform	16	5.0	ug/L	SW846 8260B
Trichloroethene	1300	25	ug/L	SW846 8260B
Trichloroethene	1100 E	5.0	ug/L	SW846 8260B

METHODS SUMMARY

E1G090186

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B/826

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

E1G090186

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
EF4JA	001	DDS_2_11/72	07/09/01	11:57
EF4JD	002	DDS_2_11/86	07/09/01	12:46
EF4JE	003	DDS_2_11/115	07/09/01	13:46

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

HALEY & ALDRICH INC

Client Sample ID: DDS_2_11/72

GC/MS Volatiles

Lot-Sample #...: E1G090186-001 **Work Order #...:** EF4JA1AA **Matrix.....:** WATER
Date Sampled...: 07/09/01 11:57 **Date Received..:** 07/09/01 17:15 **MS Run #.....:** 1191201
Prep Date.....: 07/09/01 **Analysis Date..:** 07/10/01
Prep Batch #...: 1191400 **Analysis Time..:** 04:00
Dilution Factor: 100
Analyst ID.....: 015590 **Instrument ID..:** MSC
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	1000	ug/L	300
Benzene	ND	100	ug/L	30
Bromobenzene	ND	100	ug/L	30
Bromochloromethane	ND	100	ug/L	30
Bromoform	ND	100	ug/L	30
Bromomethane	ND	200	ug/L	100
Carbon tetrachloride	ND	50	ug/L	30
2-Butanone	ND	500	ug/L	300
n-Butylbenzene	ND	100	ug/L	30
sec-Butylbenzene	ND	100	ug/L	30
tert-Butylbenzene	ND	100	ug/L	20
Carbon disulfide	ND	100	ug/L	30
Chlorobenzene	ND	100	ug/L	30
Dibromochloromethane	ND	100	ug/L	30
Dichlorodifluoromethane	ND	100	ug/L	40
Bromodichloromethane	ND	100	ug/L	30
1,2-Dichloroethane	ND	50	ug/L	20
1,1-Dichloroethene	**150**	**100**	**ug/L**	**20**
Chloroethane	ND	200	ug/L	30
Chloroform	**79 J**	**100**	**ug/L**	**20**
Chloromethane	ND	200	ug/L	30
2-Chlorotoluene	ND	100	ug/L	30
4-Chlorotoluene	ND	100	ug/L	30
1,2-Dibromo-3-chloro-propane	ND	200	ug/L	60
1,2-Dibromoethane	ND	100	ug/L	30
Iodomethane	ND	200	ug/L	100
Isopropyl ether	ND	200	ug/L	50
1,2-Dichlorobenzene	ND	100	ug/L	20
1,3-Dichlorobenzene	ND	100	ug/L	20
1,4-Dichlorobenzene	ND	100	ug/L	30
1,1-Dichloroethane	ND	100	ug/L	20
cis-1,2-Dichloroethene	ND	100	ug/L	30
trans-1,2-Dichloroethene	ND	100	ug/L	20
Vinyl chloride	ND	50	ug/L	30
2,2-Dichloropropane	ND	100	ug/L	30
t-Butanol	ND	2500	ug/L	600

(Continued on next page)

HALEY & ALDRICH INC

Client Sample ID: DDS_2_11/72

GC/MS Volatiles

Lot-Sample #...: E1G090186-001 **Work Order #...:** EF4JA1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	100	ug/L	30
Tert-amyl methyl ether	ND	200	ug/L	50
Tert-butyl ethyl ether	ND	200	ug/L	50
Ethylbenzene	ND	100	ug/L	20
Hexachlorobutadiene	ND	100	ug/L	30
2-Hexanone	ND	500	ug/L	200
Isopropylbenzene	ND	100	ug/L	20
p-Isopropyltoluene	ND	100	ug/L	20
Methylene chloride	ND	100	ug/L	20
4-Methyl-2-pentanone	ND	500	ug/L	200
Methyl tert-butyl ether	ND	100	ug/L	50
n-Propylbenzene	ND	100	ug/L	40
Styrene	ND	100	ug/L	30
1,1,1,2-Tetrachloroethane	ND	100	ug/L	30
1,1,2,2-Tetrachloroethane	ND	100	ug/L	30
Tetrachloroethene	ND	100	ug/L	70
Toluene	ND	100	ug/L	30
1,2,3-Trichlorobenzene	ND	100	ug/L	40
1,2,4-Trichloro-benzene	ND	100	ug/L	30
1,1,1-Trichloroethane	ND	100	ug/L	20
1,1,2-Trichloroethane	ND	100	ug/L	30
Trichloroethene	**8200**	**100**	**ug/L**	**30**
Trichlorofluoromethane	ND	200	ug/L	20
1,2,3-Trichloropropane	ND	100	ug/L	30
1,2,4-Trimethylbenzene	ND	100	ug/L	20
1,3,5-Trimethylbenzene	ND	100	ug/L	20
Xylenes (total)	ND	100	ug/L	50
Acrolein	ND	2000	ug/L	1200
Acrylonitrile	ND	2000	ug/L	1000
Vinyl acetate	ND	500	ug/L	100
Tetrahydrofuran	ND	1000	ug/L	200
2-Chloroethyl vinyl ether	ND	500	ug/L	200

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	119	(75 - 120)
1,2-Dichloroethane-d4	121	(65 - 130)
Toluene-d8	121	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: DDS_2_11/72

GC/MS Volatiles

Lot-Sample #...: E1G090186-001 **Work Order #...:** EF4JA2AA **Matrix.....:** WATER
Date Sampled...: 07/09/01 11:57 **Date Received..:** 07/09/01 17:15 **MS Run #.....:** 1192137
Prep Date.....: 07/11/01 **Analysis Date..:** 07/11/01
Prep Batch #...: 1192295 **Analysis Time..:** 02:39
Dilution Factor: 20
Analyst ID.....: 004648 **Instrument ID..:** MSH
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	200	ug/L	60
Benzene	ND	20	ug/L	6.0
Bromobenzene	ND	20	ug/L	6.0
Bromochloromethane	ND	20	ug/L	6.0
Bromoform	ND	20	ug/L	6.0
Bromomethane	ND	40	ug/L	20
Carbon tetrachloride	ND	10	ug/L	6.0
2-Butanone	ND	100	ug/L	60
n-Butylbenzene	ND	20	ug/L	6.0
sec-Butylbenzene	ND	20	ug/L	6.0
tert-Butylbenzene	ND	20	ug/L	4.0
Carbon disulfide	ND	20	ug/L	6.0
Chlorobenzene	ND	20	ug/L	6.0
Dibromochloromethane	ND	20	ug/L	6.0
Dichlorodifluoromethane	ND	20	ug/L	8.0
Bromodichloromethane	ND	20	ug/L	6.0
1,2-Dichloroethane	ND	10	ug/L	4.0
1,1-Dichloroethene	**120**	**20**	**ug/L**	**4.0**
Chloroethane	ND	40	ug/L	6.0
Chloroform	**73**	**20**	**ug/L**	**4.0**
Chloromethane	ND	40	ug/L	6.0
2-Chlorotoluene	ND	20	ug/L	6.0
4-Chlorotoluene	ND	20	ug/L	6.0
1,2-Dibromo-3-chloro-propane	ND	40	ug/L	12
1,2-Dibromoethane	ND	20	ug/L	6.0
Iodomethane	ND	40	ug/L	20
Isopropyl ether	ND	40	ug/L	10
1,2-Dichlorobenzene	ND	20	ug/L	4.0
1,3-Dichlorobenzene	ND	20	ug/L	4.0
1,4-Dichlorobenzene	ND	20	ug/L	6.0
1,1-Dichloroethane	ND	20	ug/L	4.0
cis-1,2-Dichloroethene	ND	20	ug/L	6.0
trans-1,2-Dichloroethene	ND	20	ug/L	4.0
Vinyl chloride	ND	10	ug/L	6.0
2,2-Dichloropropane	ND	20	ug/L	6.0
t-Butanol	ND	500	ug/L	120

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HALEY & ALDRICH INC

Client Sample ID: DDS_2_11/72

GC/MS Volatiles

Lot-Sample #...: E1G090186-001 **Work Order #...:** EF4JA2AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	20	ug/L	6.0
Tert-amyl methyl ether	ND	40	ug/L	10
Tert-butyl ethyl ether	ND	40	ug/L	10
Ethylbenzene	ND	20	ug/L	4.0
Hexachlorobutadiene	ND	20	ug/L	6.0
2-Hexanone	ND	100	ug/L	40
Isopropylbenzene	ND	20	ug/L	4.0
p-Isopropyltoluene	ND	20	ug/L	4.0
Methylene chloride	ND	20	ug/L	4.0
4-Methyl-2-pentanone	ND	100	ug/L	40
Methyl tert-butyl ether	ND	20	ug/L	10
n-Propylbenzene	ND	20	ug/L	8.0
Styrene	ND	20	ug/L	6.0
1,1,1,2-Tetrachloroethane	ND	20	ug/L	6.0
1,1,2,2-Tetrachloroethane	ND	20	ug/L	6.0
Tetrachloroethene	ND	20	ug/L	14
Toluene	ND	20	ug/L	6.0
1,2,3-Trichlorobenzene	ND	20	ug/L	8.0
1,2,4-Trichloro-benzene	ND	20	ug/L	6.0
1,1,1-Trichloroethane	ND	20	ug/L	4.0
1,1,2-Trichloroethane	ND	20	ug/L	6.0
Trichloroethene	**6200 E**	**20**	**ug/L**	**6.0**
Trichlorofluoromethane	ND	40	ug/L	4.0
1,2,3-Trichloropropane	ND	20	ug/L	6.0
1,2,4-Trimethylbenzene	ND	20	ug/L	4.0
1,3,5-Trimethylbenzene	ND	20	ug/L	4.0
Xylenes (total)	ND	20	ug/L	10
Acrolein	ND	400	ug/L	240
Acrylonitrile	ND	400	ug/L	200
Vinyl acetate	ND	100	ug/L	20
Tetrahydrofuran	ND	200	ug/L	40
2-Chloroethyl vinyl ether	ND	100	ug/L	40

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	104	(75 - 120)
1,2-Dichloroethane-d4	106	(65 - 130)
Toluene-d8	104	(80 - 130)

NOTE(S):

E Estimated result Result concentration exceeds the calibration range.

HALEY & ALDRICH INC

Client Sample ID: DDS_2_11/86

GC/MS Volatiles

Lot-Sample #...: E1G090186-002 **Work Order #...:** EF4JD1AA **Matrix.....:** WATER
Date Sampled...: 07/09/01 12:46 **Date Received..:** 07/09/01 17:15 **MS Run #.....:** 1192137
Prep Date.....: 07/10/01 **Analysis Date..:** 07/10/01
Prep Batch #...: 1192295 **Analysis Time..:** 20:41
Dilution Factor: 25
Analyst ID.....: 004648 **Instrument ID..:** MSH
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	250	ug/L	75
Benzene	ND	25	ug/L	7.5
Bromobenzene	ND	25	ug/L	7.5
Bromochloromethane	ND	25	ug/L	7.5
Bromoform	ND	25	ug/L	7.5
Bromomethane	ND	50	ug/L	25
Carbon tetrachloride	ND	12	ug/L	7.5
2-Butanone	ND	120	ug/L	75
n-Butylbenzene	ND	25	ug/L	7.5
sec-Butylbenzene	ND	25	ug/L	7.5
tert-Butylbenzene	ND	25	ug/L	5.0
Carbon disulfide	**13 J**	**25**	**ug/L**	**7.5**
Chlorobenzene	ND	25	ug/L	7.5
Dibromochloromethane	ND	25	ug/L	7.5
Dichlorodifluoromethane	ND	25	ug/L	10
Bromodichloromethane	ND	25	ug/L	7.5
1,2-Dichloroethane	ND	12	ug/L	5.0
1,1-Dichloroethene	**16 J**	**25**	**ug/L**	**5.0**
Chloroethane	ND	50	ug/L	7.5
Chloroform	**9.5 J**	**25**	**ug/L**	**5.0**
Chloromethane	ND	50	ug/L	7.5
2-Chlorotoluene	ND	25	ug/L	7.5
4-Chlorotoluene	ND	25	ug/L	7.5
1,2-Dibromo-3-chloro-propane	ND	50	ug/L	15
1,2-Dibromoethane	ND	25	ug/L	7.5
Iodomethane	ND	50	ug/L	25
Isopropyl ether	ND	50	ug/L	12
1,2-Dichlorobenzene	ND	25	ug/L	5.0
1,3-Dichlorobenzene	ND	25	ug/L	5.0
1,4-Dichlorobenzene	ND	25	ug/L	7.5
1,1-Dichloroethane	ND	25	ug/L	5.0
cis-1,2-Dichloroethene	ND	25	ug/L	7.5
trans-1,2-Dichloroethene	ND	25	ug/L	5.0
Vinyl chloride	ND	12	ug/L	7.5
2,2-Dichloropropane	ND	25	ug/L	7.5
t-Butanol	ND	620	ug/L	150

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HALEY & ALDRICH INC

Client Sample ID: DDS_2_11/86

GC/MS Volatiles

Lot-Sample #...: E1G090186-002 **Work Order #...:** EF4JD1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	25	ug/L	7.5
Tert-amyl methyl ether	ND	50	ug/L	12
Tert-butyl ethyl ether	ND	50	ug/L	12
Ethylbenzene	ND	25	ug/L	5.0
Hexachlorobutadiene	ND	25	ug/L	7.5
2-Hexanone	ND	120	ug/L	50
Isopropylbenzene	ND	25	ug/L	5.0
p-Isopropyltoluene	ND	25	ug/L	5.0
Methylene chloride	ND	25	ug/L	5.0
4-Methyl-2-pentanone	ND	120	ug/L	50
Methyl tert-butyl ether	ND	25	ug/L	12
n-Propylbenzene	ND	25	ug/L	10
Styrene	ND	25	ug/L	7.5
1,1,1,2-Tetrachloroethane	ND	25	ug/L	7.5
1,1,2,2-Tetrachloroethane	ND	25	ug/L	7.5
Tetrachloroethene	ND	25	ug/L	18
Toluene	ND	25	ug/L	7.5
1,2,3-Trichlorobenzene	ND	25	ug/L	10
1,2,4-Trichloro-benzene	ND	25	ug/L	7.5
1,1,1-Trichloroethane	ND	25	ug/L	5.0
1,1,2-Trichloroethane	ND	25	ug/L	7.5
Trichloroethene	**1400**	**25**	**ug/L**	**7.5**
Trichlorofluoromethane	ND	50	ug/L	5.0
1,2,3-Trichloropropane	ND	25	ug/L	7.5
1,2,4-Trimethylbenzene	ND	25	ug/L	5.0
1,3,5-Trimethylbenzene	ND	25	ug/L	5.0
Xylenes (total)	ND	25	ug/L	12
Acrolein	ND	500	ug/L	300
Acrylonitrile	ND	500	ug/L	250
Vinyl acetate	ND	120	ug/L	25
Tetrahydrofuran	ND	250	ug/L	50
2-Chloroethyl vinyl ether	ND	120	ug/L	50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	103	(75 - 120)
1,2-Dichloroethane-d4	107	(65 - 130)
Toluene-d8	109	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: DDS_2_11/86

GC/MS Volatiles

Lot-Sample #...: E1G090186-002 **Work Order #...:** EF4JD2AA **Matrix.....:** WATER
Date Sampled...: 07/09/01 12:46 **Date Received..:** 07/09/01 17:15 **MS Run #.....:** 1192137
Prep Date.....: 07/11/01 **Analysis Date..:** 07/11/01
Prep Batch #...: 1192295 **Analysis Time..:** 03:09
Dilution Factor: 5
Analyst ID.....: 004648 **Instrument ID..:** MSH
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	50	ug/L	15
Benzene	ND	5.0	ug/L	1.5
Bromobenzene	ND	5.0	ug/L	1.5
Bromochloromethane	ND	5.0	ug/L	1.5
Bromoform	ND	5.0	ug/L	1.5
Bromomethane	ND	10	ug/L	5.0
Carbon tetrachloride	ND	2.5	ug/L	1.5
2-Butanone	ND	25	ug/L	15
n-Butylbenzene	ND	5.0	ug/L	1.5
sec-Butylbenzene	ND	5.0	ug/L	1.5
tert-Butylbenzene	ND	5.0	ug/L	1.0
Carbon disulfide	**10**	**5.0**	**ug/L**	**1.5**
Chlorobenzene	ND	5.0	ug/L	1.5
Dibromochloromethane	ND	5.0	ug/L	1.5
Dichlorodifluoromethane	ND	5.0	ug/L	2.0
Bromodichloromethane	ND	5.0	ug/L	1.5
1,2-Dichloroethane	ND	2.5	ug/L	1.0
1,1-Dichloroethene	**15**	**5.0**	**ug/L**	**1.0**
Chloroethane	ND	10	ug/L	1.5
Chloroform	**9.3**	**5.0**	**ug/L**	**1.0**
Chloromethane	ND	10	ug/L	1.5
2-Chlorotoluene	ND	5.0	ug/L	1.5
4-Chlorotoluene	ND	5.0	ug/L	1.5
1,2-Dibromo-3-chloro-propane	ND	10	ug/L	3.0
1,2-Dibromoethane	ND	5.0	ug/L	1.5
Iodomethane	ND	10	ug/L	5.0
Isopropyl ether	ND	10	ug/L	2.5
1,2-Dichlorobenzene	ND	5.0	ug/L	1.0
1,3-Dichlorobenzene	ND	5.0	ug/L	1.0
1,4-Dichlorobenzene	ND	5.0	ug/L	1.5
1,1-Dichloroethane	ND	5.0	ug/L	1.0
cis-1,2-Dichloroethene	ND	5.0	ug/L	1.5
trans-1,2-Dichloroethene	ND	5.0	ug/L	1.0
Vinyl chloride	ND	2.5	ug/L	1.5
2,2-Dichloropropane	ND	5.0	ug/L	1.5
t-Butanol	ND	120	ug/L	30

(Continued on next page)

HALEY & ALDRICH INC

Client Sample ID: DDS_2_11/86

GC/MS Volatiles

Lot-Sample #...: E1G090186-002 **Work Order #...:** EF4JD2AA **Matrix.....:** WATE

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	5.0	ug/L	1.5
Tert-amyl methyl ether	ND	10	ug/L	2.5
Tert-butyl ethyl ether	ND	10	ug/L	2.5
Ethylbenzene	ND	5.0	ug/L	1.0
Hexachlorobutadiene	ND	5.0	ug/L	1.5
2-Hexanone	ND	25	ug/L	10
Isopropylbenzene	ND	5.0	ug/L	1.0
p-Isopropyltoluene	ND	5.0	ug/L	1.0
Methylene chloride	ND	5.0	ug/L	1.0
4-Methyl-2-pentanone	ND	25	ug/L	10
Methyl tert-butyl ether	ND	5.0	ug/L	2.5
n-Propylbenzene	ND	5.0	ug/L	2.0
Styrene	ND	5.0	ug/L	1.5
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L	1.5
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	1.5
Tetrachloroethene	ND	5.0	ug/L	3.5
Toluene	ND	5.0	ug/L	1.5
1,2,3-Trichlorobenzene	ND	5.0	ug/L	2.0
1,2,4-Trichloro-benzene	ND	5.0	ug/L	1.5
1,1,1-Trichloroethane	ND	5.0	ug/L	1.0
1,1,2-Trichloroethane	ND	5.0	ug/L	1.5
Trichloroethene	**1100 E**	**5.0**	**ug/L**	**1.5**
Trichlorofluoromethane	ND	10	ug/L	1.0
1,2,3-Trichloropropane	ND	5.0	ug/L	1.5
1,2,4-Trimethylbenzene	ND	5.0	ug/L	1.0
1,3,5-Trimethylbenzene	ND	5.0	ug/L	1.0
Xylenes (total)	ND	5.0	ug/L	2.5
Acrolein	ND	100	ug/L	60
Acrylonitrile	ND	100	ug/L	50
Vinyl acetate	ND	25	ug/L	5.0
Tetrahydrofuran	ND	50	ug/L	10
2-Chloroethyl vinyl ether	ND	25	ug/L	10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	105	(75 - 120)
1,2-Dichloroethane-d4	110	(65 - 130)
Toluene-d8	107	(80 - 130)

NOTE(S):

E Estimated result. Result concentration exceeds the calibration range.

HALEY & ALDRICH INC

Client Sample ID: DDS_2_11/86

GC/MS Volatiles

t-Sample #...: E1G090186-002 Work Order #...: EF4JD2AA Matrix.....: WATER

RAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1-Dichloropropene	ND	5.0	ug/L	1.5
rt-amyl methyl ether	ND	10	ug/L	2.5
rt-butyl ethyl ether	ND	10	ug/L	2.5
ıylbenzene	ND	5.0	ug/L	1.0
xachlorobutadiene	ND	5.0	ug/L	1.5
Iexanone	ND	25	ug/L	10
›propylbenzene	ND	5.0	ug/L	1.0
Isopropyltoluene	ND	5.0	ug/L	1.0
:hylene chloride	ND	5.0	ug/L	1.0
Iethyl-2-pentanone	ND	25	ug/L	10
:hyl tert-butyl ether	ND	5.0	ug/L	2.5
›ropylbenzene	ND	5.0	ug/L	2.0
rene	ND	5.0	ug/L	1.5
.,1,2-Tetrachloroethane	ND	5.0	ug/L	1.5
.,2,2-Tetrachloroethane	ND	5.0	ug/L	1.5
:rachloroethene	ND	5.0	ug/L	3.5
.uene	ND	5.0	ug/L	1.5
,3-Trichlorobenzene	ND	5.0	ug/L	2.0
,4-Trichloro-benzene	ND	5.0	ug/L	1.5
,1-Trichloroethane	ND	5.0	ug/L	1.0
,2-Trichloroethane	ND	5.0	ug/L	1.5
chloroethene	**1100 E**	**5.0**	**ug/L**	**1.5**
chlorofluoromethane	ND	10	ug/L	1.0
,3-Trichloropropane	ND	5.0	ug/L	1.5
,4-Trimethylbenzene	ND	5.0	ug/L	1.0
,5-Trimethylbenzene	ND	5.0	ug/L	1.0
enes (total)	ND	5.0	ug/L	2.5
olein	ND	100	ug/L	60
ylonitrile	ND	100	ug/L	50
yl acetate	ND	25	ug/L	5.0
rahydrofuran	ND	50	ug/L	10
hloroethyl vinyl ether	ND	25	ug/L	10

ROGATE	PERCENT RECOVERY	RECOVERY LIMITS
nofluorobenzene	105	(75 - 120)
-Dichloroethane-d4	110	(65 - 130)
ıene-d8	107	(80 - 130)

3(S):

mated result. Result concentration exceeds the calibration range.

HALEY & ALDRICH INC

Client Sample ID: DDS_2_11/115

GC/MS Volatiles

Lot-Sample #...: E1G090186-003 **Work Order #...:** EF4JE1AA **Matrix.....:** WATER
Date Sampled...: 07/09/01 13:46 **Date Received..:** 07/09/01 17:15 **MS Run #.....:** 1192137
Prep Date.....: 07/10/01 **Analysis Date..:** 07/10/01
Prep Batch #...: 1192295 **Analysis Time..:** 21:11
Dilution Factor: 25
Analyst ID.....: 004648 **Instrument ID..:** MSH
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	250	ug/L	75
Benzene	ND	25	ug/L	7.5
Bromobenzene	ND	25	ug/L	7.5
Bromochloromethane	ND	25	ug/L	7.5
Bromoform	ND	25	ug/L	7.5
Bromomethane	ND	50	ug/L	25
Carbon tetrachloride	ND	12	ug/L	7.5
2-Butanone	ND	120	ug/L	75
n-Butylbenzene	ND	25	ug/L	7.5
sec-Butylbenzene	ND	25	ug/L	7.5
tert-Butylbenzene	ND	25	ug/L	5.0
Carbon disulfide	ND	25	ug/L	7.5
Chlorobenzene	ND	25	ug/L	7.5
Dibromochloromethane	ND	25	ug/L	7.5
Dichlorodifluoromethane	ND	25	ug/L	10
Bromodichloromethane	ND	25	ug/L	7.5
1,2-Dichloroethane	ND	12	ug/L	5.0
1,1-Dichloroethene	**13 J**	**25**	**ug/L**	**5.0**
Chloroethane	ND	50	ug/L	7.5
Chloroform	**18 J**	**25**	**ug/L**	**5.0**
Chloromethane	ND	50	ug/L	7.5
2-Chlorotoluene	ND	25	ug/L	7.5
4-Chlorotoluene	ND	25	ug/L	7.5
1,2-Dibromo-3-chloro-propane	ND	50	ug/L	15
1,2-Dibromoethane	ND	25	ug/L	7.5
Iodomethane	ND	50	ug/L	25
Isopropyl ether	ND	50	ug/L	12
1,2-Dichlorobenzene	ND	25	ug/L	5.0
1,3-Dichlorobenzene	ND	25	ug/L	5.0
1,4-Dichlorobenzene	ND	25	ug/L	7.5
1,1-Dichloroethane	ND	25	ug/L	5.0
cis-1,2-Dichloroethene	ND	25	ug/L	7.5
trans-1,2-Dichloroethene	ND	25	ug/L	5.0
Vinyl chloride	ND	12	ug/L	7.5
2,2-Dichloropropane	ND	25	ug/L	7.5
t-Butanol	ND	620	ug/L	150

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HALEY & ALDRICH INC

Client Sample ID: DDS_2_11/115

GC/MS Volatiles

Lot-Sample #...: E1G090186-003 **Work Order #...:** EF4JE1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	25	ug/L	7.5
Tert-amyl methyl ether	ND	50	ug/L	12
Tert-butyl ethyl ether	ND	50	ug/L	12
Ethylbenzene	ND	25	ug/L	5.0
Hexachlorobutadiene	ND	25	ug/L	7.5
2-Hexanone	ND	120	ug/L	50
Isopropylbenzene	ND	25	ug/L	5.0
p-Isopropyltoluene	ND	25	ug/L	5.0
Methylene chloride	ND	25	ug/L	5.0
4-Methyl-2-pentanone	ND	120	ug/L	50
Methyl tert-butyl ether	ND	25	ug/L	12
n-Propylbenzene	ND	25	ug/L	10
Styrene	ND	25	ug/L	7.5
1,1,1,2-Tetrachloroethane	ND	25	ug/L	7.5
1,1,2,2-Tetrachloroethane	ND	25	ug/L	7.5
Tetrachloroethene	ND	25	ug/L	18
Toluene	ND	25	ug/L	7.5
1,2,3-Trichlorobenzene	ND	25	ug/L	10
1,2,4-Trichloro-benzene	ND	25	ug/L	7.5
1,1,1-Trichloroethane	ND	25	ug/L	5.0
1,1,2-Trichloroethane	ND	25	ug/L	7.5
Trichloroethene	**1300**	**25**	**ug/L**	**7.5**
Trichlorofluoromethane	ND	50	ug/L	5.0
1,2,3-Trichloropropane	ND	25	ug/L	7.5
1,2,4-Trimethylbenzene	ND	25	ug/L	5.0
1,3,5-Trimethylbenzene	ND	25	ug/L	5.0
Xylenes (total)	ND	25	ug/L	12
Acrolein	ND	500	ug/L	300
Acrylonitrile	ND	500	ug/L	250
Vinyl acetate	ND	120	ug/L	25
Tetrahydrofuran	ND	250	ug/L	50
2-Chloroethyl vinyl ether	ND	120	ug/L	50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	106	(75 - 120)
1,2-Dichloroethane-d4	105	(65 - 130)
Toluene-d8	108	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

HALEY & ALDRICH INC

Client Sample ID: DDS_2_11/115

GC/MS Volatiles

Lot-Sample #...: E1G090186-003 **Work Order #...:** EF4JE2AA **Matrix.....:** WATER
Date Sampled...: 07/09/01 13:46 **Date Received..:** 07/09/01 17:15 **MS Run #.....:** 1192137
Prep Date.....: 07/11/01 **Analysis Date..:** 07/11/01
Prep Batch #...: 1192295 **Analysis Time..:** 03:39
Dilution Factor: 5
Analyst ID.....: 004648 **Instrument ID..:** MSH
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	50	ug/L	15
Benzene	ND	5.0	ug/L	1.5
Bromobenzene	ND	5.0	ug/L	1.5
Bromochloromethane	ND	5.0	ug/L	1.5
Bromoform	ND	5.0	ug/L	1.5
Bromomethane	ND	10	ug/L	5.0
Carbon tetrachloride	ND	2.5	ug/L	1.5
2-Butanone	ND	25	ug/L	15
n-Butylbenzene	ND	5.0	ug/L	1.5
sec-Butylbenzene	ND	5.0	ug/L	1.5
tert-Butylbenzene	ND	5.0	ug/L	1.0
Carbon disulfide	ND	5.0	ug/L	1.5
Chlorobenzene	ND	5.0	ug/L	1.5
Dibromochloromethane	ND	5.0	ug/L	1.5
Dichlorodifluoromethane	ND	5.0	ug/L	2.0
Bromodichloromethane	ND	5.0	ug/L	1.5
1,2-Dichloroethane	ND	2.5	ug/L	1.0
1,1-Dichloroethene	**11**	**5.0**	**ug/L**	**1.0**
Chloroethane	ND	10	ug/L	1.5
Chloroform	**16**	**5.0**	**ug/L**	**1.0**
Chloromethane	ND	10	ug/L	1.5
2-Chlorotoluene	ND	5.0	ug/L	1.5
4-Chlorotoluene	ND	5.0	ug/L	1.5
1,2-Dibromo-3-chloro-propane	ND	10	ug/L	3.0
1,2-Dibromoethane	ND	5.0	ug/L	1.5
Iodomethane	ND	10	ug/L	5.0
Isopropyl ether	ND	10	ug/L	2.5
1,2-Dichlorobenzene	ND	5.0	ug/L	1.0
1,3-Dichlorobenzene	ND	5.0	ug/L	1.0
1,4-Dichlorobenzene	ND	5.0	ug/L	1.5
1,1-Dichloroethane	ND	5.0	ug/L	1.0
cis-1,2-Dichloroethene	ND	5.0	ug/L	1.5
trans-1,2-Dichloroethene	ND	5.0	ug/L	1.0
Vinyl chloride	ND	2.5	ug/L	1.5
2,2-Dichloropropane	ND	5.0	ug/L	1.5
t-Butanol	ND	120	ug/L	30

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HALEY & ALDRICH INC

Client Sample ID: DDS_2_11/115

GC/MS Volatiles

Lot-Sample #...: E1G090186-003 **Work Order #...:** EF4JE2AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	5.0	ug/L	1.5
Tert-amyl methyl ether	ND	10	ug/L	2.5
Tert-butyl ethyl ether	ND	10	ug/L	2.5
Ethylbenzene	ND	5.0	ug/L	1.0
Hexachlorobutadiene	ND	5.0	ug/L	1.5
2-Hexanone	ND	25	ug/L	10
Isopropylbenzene	ND	5.0	ug/L	1.0
p-Isopropyltoluene	ND	5.0	ug/L	1.0
Methylene chloride	ND	5.0	ug/L	1.0
4-Methyl-2-pentanone	ND	25	ug/L	10
Methyl tert-butyl ether	ND	5.0	ug/L	2.5
n-Propylbenzene	ND	5.0	ug/L	2.0
Styrene	ND	5.0	ug/L	1.5
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L	1.5
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	1.5
Tetrachloroethene	ND	5.0	ug/L	3.5
Toluene	ND	5.0	ug/L	1.5
1,2,3-Trichlorobenzene	ND	5.0	ug/L	2.0
1,2,4-Trichloro-benzene	ND	5.0	ug/L	1.5
1,1,1-Trichloroethane	ND	5.0	ug/L	1.0
1,1,2-Trichloroethane	ND	5.0	ug/L	1.5
Trichloroethene	**1100 E**	**5.0**	**ug/L**	**1.5**
Trichlorofluoromethane	ND	10	ug/L	1.0
1,2,3-Trichloropropane	ND	5.0	ug/L	1.5
1,2,4-Trimethylbenzene	ND	5.0	ug/L	1.0
1,3,5-Trimethylbenzene	ND	5.0	ug/L	1.0
Xylenes (total)	ND	5.0	ug/L	2.5
Acrolein	ND	100	ug/L	60
Acrylonitrile	ND	100	ug/L	50
Vinyl acetate	ND	25	ug/L	5.0
Tetrahydrofuran	ND	50	ug/L	10
2-Chloroethyl vinyl ether	ND	25	ug/L	10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	105	(75 - 120)
1,2-Dichloroethane-d4	105	(65 - 130)
Toluene-d8	106	(80 - 130)

NOTE(S):

E Estimated result. Result concentration exceeds the calibration range.

QC DATA ASSOCIATION SUMMARY

E1G090186

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	SW846 8260B		1191400	1191201
	WATER	SW846 8260B		1192295	1192137
002	WATER	SW846 8260B		1192295	1192137
003	WATER	SW846 8260B		1192295	1192137

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E1G090186
MB Lot-Sample #: E1G100000-400

Work Order #...: EF5X51AA

Matrix.....: WATER

Prep Date.....: 07/09/01

Analysis Time..: 00:04

Analysis Date..: 07/10/01

Prep Batch #...: 1191400

Instrument ID..: MSC

Dilution Factor: 1

Analyst ID.....: 015590

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromobenzene	ND	1.0	ug/L	SW846 8260B
Bromochloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	0.50	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	0.50	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
Iodomethane	ND	2.0	ug/L	SW846 8260B
Isopropyl ether	ND	2.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	0.50	ug/L	SW846 8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
t-Butanol	ND	25	ug/L	SW846 8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Tert-amyl methyl ether	ND	2.0	ug/L	SW846 8260B
Tert-butyl ethyl ether	ND	2.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E1G090186 **Work Order #...:** EF5X51AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Hexachlorobutadiene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B
p-Isopropyltoluene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	1.0	ug/L	SW846 8260B
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B
Acrolein	ND	20	ug/L	SW846 8260B
Acrylonitrile	ND	20	ug/L	SW846 8260B
Vinyl acetate	ND	5.0	ug/L	SW846 8260B
Tetrahydrofuran	ND	10	ug/L	SW846 8260B
2-Chloroethyl vinyl ether	ND	5.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	114	(75 - 120)
1,2-Dichloroethane-d4	114	(65 - 130)
Toluene-d8	119	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E1G090186
MB Lot-Sample #: E1G110000-295

Analysis Date..: 07/10/01
Dilution Factor: 1

Work Order #...: EF6TR1AA

Prep Date.....: 07/10/01
Prep Batch #...: 1192295

Analyst ID.....: 004648

Matrix.....:

Analysis Time..:
Instrument ID..:

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromobenzene	ND	1.0	ug/L	SW846 8260B
Bromochloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	0.50	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	0.50	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
Iodomethane	ND	2.0	ug/L	SW846 8260B
Isopropyl ether	ND	2.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	0.50	ug/L	SW846 8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
t-Butanol	ND	25	ug/L	SW846 8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Tert-amyl methyl ether	ND	2.0	ug/L	SW846 8260B
Tert-butyl ethyl ether	ND	2.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

ient Lot #...: E1G090186
Lot-Sample #: E1G110000-295

alysis Date..: 07/10/01
lution Factor: 1

Work Order #...: EF6TR1AA

Prep Date.....: 07/10/01
Prep Batch #...: 1192295

Analyst ID.....: 004648

Matrix.....: WATER

Analysis Time..: 17:12
Instrument ID..: MSH

RAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
etone	ND	10	ug/L	SW846 8260B
nzene	ND	1.0	ug/L	SW846 8260B
omobenzene	ND	1.0	ug/L	SW846 8260B
omochloromethane	ND	1.0	ug/L	SW846 8260B
omoform	ND	1.0	ug/L	SW846 8260B
omomethane	ND	2.0	ug/L	SW846 8260B
rbon tetrachloride	ND	0.50	ug/L	SW846 8260B
Butanone	ND	5.0	ug/L	SW846 8260B
Butylbenzene	ND	1.0	ug/L	SW846 8260B
c-Butylbenzene	ND	1.0	ug/L	SW846 8260B
rt-Butylbenzene	ND	1.0	ug/L	SW846 8260B
rbon disulfide	ND	1.0	ug/L	SW846 8260B
lorobenzene	ND	1.0	ug/L	SW846 8260B
bromochloromethane	ND	1.0	ug/L	SW846 8260B
chlorodifluoromethane	ND	1.0	ug/L	SW846 8260B
omodichloromethane	ND	1.0	ug/L	SW846 8260B
2-Dichloroethane	ND	0.50	ug/L	SW846 8260B
1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
loroethane	ND	2.0	ug/L	SW846 8260B
loroform	ND	1.0	ug/L	SW846 8260B
loromethane	ND	2.0	ug/L	SW846 8260B
Chlorotoluene	ND	1.0	ug/L	SW846 8260B
Chlorotoluene	ND	1.0	ug/L	SW846 8260B
2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
domethane	ND	2.0	ug/L	SW846 8260B
opropyl ether	ND	2.0	ug/L	SW846 8260B
2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
s-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
ans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
nyl chloride	ND	0.50	ug/L	SW846 8260B
2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
Butanol	ND	25	ug/L	SW846 8260B
1-Dichloropropene	ND	1.0	ug/L	SW846 8260B
rt-amyl methyl ether	ND	2.0	ug/L	SW846 8260B
rt-butyl ethyl ether	ND	2.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E1G090186 **Work Order #...:** EF6TR1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Hexachlorobutadiene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B
p-Isopropyltoluene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	1.0	ug/L	SW846 8260B
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B
Acrolein	ND	20	ug/L	SW846 8260B
Acrylonitrile	ND	20	ug/L	SW846 8260B
Vinyl acetate	ND	5.0	ug/L	SW846 8260B
Tetrahydrofuran	ND	10	ug/L	SW846 8260B
2-Chloroethyl vinyl ether	ND	5.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	101	(75 - 120)
1,2-Dichloroethane-d4	97	(65 - 130)
Toluene-d8	107	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E1G090186 **Work Order #...:** EF5X51AC **Matrix.....:** WATER
LCS Lot-Sample#: E1G100000-400
Prep Date.....: 07/09/01 **Analysis Date..:** 07/09/01
Prep Batch #...: 1191400 **Analysis Time..:** 23:35
Dilution Factor: 1 **Instrument ID..:** MSC
Analyst ID.....: 015590

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzene	**10.0**	**10.6**	**ug/L**	**106**	**SW846 8260B**
Chlorobenzene	**10.0**	**9.92**	**ug/L**	**99**	**SW846 8260B**
1,1-Dichloroethene	**10.0**	**12.0**	**ug/L**	**120**	**SW846 8260B**
Toluene	**10.0**	**10.5**	**ug/L**	**105**	**SW846 8260B**
Trichloroethene	**10.0**	**10.5**	**ug/L**	**105**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	116	(75 - 120)
1,2-Dichloroethane-d4	114	(65 - 130)
Toluene-d8	119	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E1G090186 **Work Order #...:** EF6TR1AC **Matrix.....:** WATER
LCS Lot-Sample#: E1G110000-295
Prep Date.....: 07/10/01 **Analysis Date..:** 07/10/01
Prep Batch #...: 1192295 **Analysis Time..:** 16:42
Dilution Factor: 1 **Instrument ID..:** MSH
Analyst ID.....: 004648

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzene	**10.0**	**10.0**	**ug/L**	**100**	**SW846 8260B**
Chlorobenzene	**10.0**	**10.1**	**ug/L**	**101**	**SW846 8260B**
1,1-Dichloroethene	**10.0**	**9.94**	**ug/L**	**99**	**SW846 8260B**
Toluene	**10.0**	**10.1**	**ug/L**	**101**	**SW846 8260B**
Trichloroethene	**10.0**	**9.70**	**ug/L**	**97**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	106	(75 - 120)
1,2-Dichloroethane-d4	100	(65 - 130)
Toluene-d8	108	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E1G090186 **Work Order #...:** EF5X51AC **Matrix.....:** WATER
LCS Lot-Sample#: E1G100000-400
Prep Date.....: 07/09/01 **Analysis Date..:** 07/09/01
Prep Batch #...: 1191400 **Analysis Time..:** 23:35
Dilution Factor: 1 **Instrument ID..:** MSC
Analyst ID.....: 015590

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzene	**106**	**(75 - 120)**	**SW846 8260B**
Chlorobenzene	**99**	**(80 - 120)**	**SW846 8260B**
1,1-Dichloroethene	**120**	**(70 - 130)**	**SW846 8260B**
Toluene	**105**	**(80 - 120)**	**SW846 8260B**
Trichloroethene	**105**	**(75 - 130)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	116	(75 - 120)
1,2-Dichloroethane-d4	114	(65 - 130)
Toluene-d8	119	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E1G090186 **Work Order #...:** EF6TR1AC **Matrix.....:** WATER
LCS Lot-Sample#: E1G110000-295
Prep Date.....: 07/10/01 **Analysis Date..:** 07/10/01
Prep Batch #...: 1192295 **Analysis Time..:** 16:42
Dilution Factor: 1 **Instrument ID..:** MSH
Analyst ID.....: 004648

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzene	**100**	**(75 - 120)**	**SW846 8260B**
Chlorobenzene	**101**	**(80 - 120)**	**SW846 8260B**
1,1-Dichloroethene	**99**	**(70 - 130)**	**SW846 8260B**
Toluene	**101**	**(80 - 120)**	**SW846 8260B**
Trichloroethene	**97**	**(75 - 130)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	106	(75 - 120)
1,2-Dichloroethane-d4	100	(65 - 130)
Toluene-d8	108	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...:	E1G090186	**Work Order #...:**	EF4GC1CH-MS	**Matrix.....:**	WATER
MS Lot-Sample #:	E1G090179-002		EF4GC1CJ-MSD		
Date Sampled...:	07/09/01 13:38	**Date Received..:**	07/09/01 16:20	**MS Run #.....:**	1191201
Prep Date.....:	07/09/01	**Analysis Date..:**	07/10/01		
Prep Batch #...:	1191400	**Analysis Time..:**	05:29		
Dilution Factor:	1	**Analyst ID.....:**	015590	**Instrument ID..:**	MSC

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzene	**ND**	**10.0**	**10.6**	**ug/L**	**106**		**SW846 8260B**
	ND	**10.0**	**10.6**	**ug/L**	**106**	**0.37**	**SW846 8260B**
Chlorobenzene	**ND**	**10.0**	**10.0**	**ug/L**	**100**		**SW846 8260B**
	ND	**10.0**	**9.96**	**ug/L**	**100**	**0.60**	**SW846 8260B**
1,1-Dichloroethene	**0.95**	**10.0**	**12.4**	**ug/L**	**114**		**SW846 8260B**
	0.95	**10.0**	**12.3**	**ug/L**	**113**	**0.73**	**SW846 8260B**
Toluene	**8.8**	**10.0**	**18.7**	**ug/L**	**99**		**SW846 8260B**
	8.8	**10.0**	**18.8**	**ug/L**	**100**	**0.53**	**SW846 8260B**
Trichloroethene	**2.2**	**10.0**	**12.6**	**ug/L**	**104**		**SW846 8260B**
	2.2	**10.0**	**12.3**	**ug/L**	**102**	**1.8**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	116	(75 - 120)
	115	(75 - 120)
1,2-Dichloroethane-d4	118	(65 - 130)
	118	(65 - 130)
Toluene-d8	113	(80 - 130)
	117	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...:	E1G090186	**Work Order #...:**	EF4HR1AC-MS	**Matrix.....:**	WATER
MS Lot-Sample #:	E1G090184-002		EF4HR1AD-MSD		
Date Sampled...:	07/09/01 09:43	**Date Received..:**	07/09/01 17:15	**MS Run #.....:**	1192137
Prep Date.....:	07/11/01	**Analysis Date..:**	07/11/01		
Prep Batch #...:	1192295	**Analysis Time..:**	00:10		
Dilution Factor:	1	**Analyst ID.....:**	004648	**Instrument ID..:**	MSH

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzene	**0.65**	**10.0**	**10.7**	**ug/L**	**100**		**SW846 8260B**
	0.65	**10.0**	**10.8**	**ug/L**	**101**	**0.65**	**SW846 8260B**
Chlorobenzene	**ND**	**10.0**	**9.91**	**ug/L**	**99**		**SW846 8260B**
	ND	**10.0**	**10.2**	**ug/L**	**102**	**3.4**	**SW846 8260B**
1,1-Dichloroethene	**8.1**	**10.0**	**18.7**	**ug/L**	**106**		**SW846 8260B**
	8.1	**10.0**	**18.6**	**ug/L**	**105**	**0.53**	**SW846 8260B**
Toluene	**ND**	**10.0**	**10.0**	**ug/L**	**100**		**SW846 8260B**
	ND	**10.0**	**10.2**	**ug/L**	**102**	**0.99**	**SW846 8260B**
Trichloroethene	**2.4**	**10.0**	**12.1**	**ug/L**	**98**		**SW846 8260B**
	2.4	**10.0**	**12.1**	**ug/L**	**97**	**0.24**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	107	(75 - 120)
	111	(75 - 120)
1,2-Dichloroethane-d4	109	(65 - 130)
	114	(65 - 130)
Toluene-d8	108	(80 - 130)
	112	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

ent Lot #...:	E1G090186	Work Order #...:	EF4GC1CH-MS	Matrix.....:	WATER
Lot-Sample #:	E1G090179-002		EF4GC1CJ-MSD		
e Sampled...:	07/09/01 13:38	Date Received..:	07/09/01 16:20	MS Run #.....:	1191201
p Date.....:	07/09/01	Analysis Date..:	07/10/01		
p Batch #...:	1191400	Analysis Time..:	05:29		
ution Factor:	1	Analyst ID.....:	015590	Instrument ID..:	MSC

AMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
zene	106	(75 - 120)			SW846 8260B
	106	(75 - 120)	0.37	(0-25)	SW846 8260B
orobenzene	100	(80 - 120)			SW846 8260B
	100	(80 - 120)	0.60	(0-25)	SW846 8260B
-Dichloroethene	114	(70 - 130)			SW846 8260B
	113	(70 - 130)	0.73	(0-25)	SW846 8260B
ene	99	(80 - 120)			SW846 8260B
	100	(80 - 120)	0.53	(0-25)	SW846 8260B
chloroethene	104	(75 - 130)			SW846 8260B
	102	(75 - 130)	1.8	(0-25)	SW846 8260B

ROGATE	PERCENT RECOVERY	RECOVERY LIMITS
nofluorobenzene	116	(75 - 120)
	115	(75 - 120)
-Dichloroethane-d4	118	(65 - 130)
	118	(65 - 130)
ene-d8	113	(80 - 130)
	117	(80 - 130)

E(S):

ations are performed before rounding to avoid round-off errors in calculated results.

rint denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...:	E1G090186	**Work Order #...:**	EF4HR1AC-MS	**Matrix.....:**	WATER
MS Lot-Sample #:	E1G090184-002		EF4HR1AD-MSD		
Date Sampled...:	07/09/01 09:43	**Date Received..:**	07/09/01 17:15	**MS Run #.....:**	1192137
Prep Date.....:	07/11/01	**Analysis Date..:**	07/11/01		
Prep Batch #...:	1192295	**Analysis Time..:**	00:10		
Dilution Factor:	1	**Analyst ID.....:**	004648	**Instrument ID..:**	MSH

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**100**	**(75 - 120)**			**SW846 8260B**
	101	**(75 - 120)**	**0.65**	**(0-25)**	**SW846 8260B**
Chlorobenzene	**99**	**(80 - 120)**			**SW846 8260B**
	102	**(80 - 120)**	**3.4**	**(0-25)**	**SW846 8260B**
1,1-Dichloroethene	**106**	**(70 - 130)**			**SW846 8260B**
	105	**(70 - 130)**	**0.53**	**(0-25)**	**SW846 8260B**
Toluene	**100**	**(80 - 120)**			**SW846 8260B**
	102	**(80 - 120)**	**0.99**	**(0-25)**	**SW846 8260B**
Trichloroethene	**98**	**(75 - 130)**			**SW846 8260B**
	97	**(75 - 130)**	**0.24**	**(0-25)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	107	(75 - 120)
	111	(75 - 120)
1,2-Dichloroethane-d4	109	(65 - 130)
	114	(65 - 130)
Toluene-d8	108	(80 - 130)
	112	(80 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters