ANALYTICAL REPORT

PROJECT NO. EM2303

BRC Former C-6 Facility, Torra

TMW-11, TMW-15 Non Haz

Scott Ek

Tait Environmental

SAFETY HEALTH AND
ENVIR RS
OCT 0 8 2002

SEVERN TRENT LABORATORIES, INC.

Diane Suzuki
Project Manager

September 20, 2002

ANALYTICAL REPORT

PROJECT NO. EM2303

BRC Former C-6 Facility, Torra

Beth Breitenbach

SEVERN TRENT LABORATORIES, INC.

Diane Suzuki
Project Manager

September 20, 2002

ANALYTICAL REPORT

PROJECT NO. EM2303

BRC Former C-6 Facility, Torra

CH2M Hill

SEVERN TRENT LABORATORIES, INC.

Diane Suzuki
Project Manager

September 20, 2002

EXECUTIVE SUMMARY - Detection Highlights

E2I170323

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
TMW_11_WG091702_0001 09/17/02 09:00 002				
Carbon tetrachloride	3.9	2.5	ug/L	SW846 8260B
Carbon tetrachloride	3.4	0.50	ug/L	SW846 8260B
Bromodichloromethane	0.35 J	1.0	ug/L	SW846 8260B
Chloroform	330	5.0	ug/L	SW846 8260B
Chloroform	310 E	1.0	ug/L	SW846 8260B
Tetrachloroethene	5.0	5.0	ug/L	SW846 8260B
Tetrachloroethene	4.3	1.0	ug/L	SW846 8260B
Trichloroethene	5.8	5.0	ug/L	SW846 8260B
Trichloroethene	5.2	1.0	ug/L	SW846 8260B
TMW-15_WG091702_0001 09/17/02 10:27 004				
1,1-Dichloroethene	0.46 J	1.0	ug/L	SW846 8260B
Chloroform	6.5	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	0.75 J	1.0	ug/L	SW846 8260B
Methylene chloride	1.2	1.0	ug/L	SW846 8260B
Toluene	4.4	1.0	ug/L	SW846 8260B
Trichloroethene	25	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	0.42 J	1.0	ug/L	SW846 8260B

METHODS SUMMARY

E2I170323

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

E2I170323

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
E8D4P	001	EB_TAIT091702_0001	09/17/02	07:30
E8D4Q	002	TMW_11_WG091702_0001	09/17/02	09:00
E8D4R	003	FB_TAIT091702_0001	09/17/02	09:30
E8D4T	004	TMW-15_WG091702_0001	09/17/02	10:27
E8D4V	005	TB_TAIT091702_0001	09/17/02	

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.

TAIT ENVIRONMENTAL

Client Sample ID: EB_TAIT091702_0001

GC/MS Volatiles

Lot-Sample #...: E2I170323-001 **Work Order #...:** E8D4P1AA **Matrix.....:** WATER
Date Sampled...: 09/17/02 07:30 **Date Received..:** 09/17/02 17:30
Prep Date.....: 09/17/02 **Analysis Date..:** 09/18/02
Prep Batch #...: 2261237 **Method.....:** SW846 8260B

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

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TAIT ENVIRONMENTAL

Client Sample ID: EB_TAIT091702_0001

GC/MS Volatiles

Lot-Sample #...: E2I170323-001 **Work Order #...:** E8D4P1AA **Matrix.....:** WATER

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	102	(75 - 130)
1,2-Dichloroethane-d4	112	(65 - 135)
Toluene-d8	91	(80 - 130)

TAIT ENVIRONMENTAL

Client Sample ID: TMW_11_WG091702_0001

GC/MS Volatiles

Lot-Sample #...: E2I170323-002 **Work Order #...:** E8D4Q1AA **Matrix.....:** WATER
Date Sampled...: 09/17/02 09:00 **Date Received..:** 09/17/02 17:30
Prep Date.....: 09/18/02 **Analysis Date..:** 09/18/02
Prep Batch #...: 2262459 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	50	ug/L
Benzene	ND	5.0	ug/L
Bromobenzene	ND	5.0	ug/L
Bromochloromethane	ND	5.0	ug/L
Bromoform	ND	5.0	ug/L
Bromomethane	ND	10	ug/L
Carbon tetrachloride	**3.9**	**2.5**	**ug/L**
2-Butanone	ND	25	ug/L
n-Butylbenzene	ND	5.0	ug/L
sec-Butylbenzene	ND	5.0	ug/L
tert-Butylbenzene	ND	5.0	ug/L
Carbon disulfide	ND	5.0	ug/L
Chlorobenzene	ND	5.0	ug/L
Dibromochloromethane	ND	5.0	ug/L
Dichlorodifluoromethane	ND	5.0	ug/L
Bromodichloromethane	ND	5.0	ug/L
1,2-Dichloroethane	ND	2.5	ug/L
1,1-Dichloroethene	ND	5.0	ug/L
Chloroethane	ND	10	ug/L
Chloroform	**330**	**5.0**	**ug/L**
Chloromethane	ND	10	ug/L
2-Chlorotoluene	ND	5.0	ug/L
4-Chlorotoluene	ND	5.0	ug/L
1,2-Dibromo-3-chloro-propane	ND	10	ug/L
1,2-Dibromoethane	ND	5.0	ug/L
Iodomethane	ND	10	ug/L
Isopropyl ether	ND	10	ug/L
1,2-Dichlorobenzene	ND	5.0	ug/L
1,3-Dichlorobenzene	ND	5.0	ug/L
1,4-Dichlorobenzene	ND	5.0	ug/L
1,1-Dichloroethane	ND	5.0	ug/L
cis-1,2-Dichloroethene	ND	5.0	ug/L
trans-1,2-Dichloroethene	ND	5.0	ug/L
Vinyl chloride	ND	2.5	ug/L
2,2-Dichloropropane	ND	5.0	ug/L
t-Butanol	ND	120	ug/L
1,1-Dichloropropene	ND	5.0	ug/L
Tert-amyl methyl ether	ND	10	ug/L
Tert-butyl ethyl ether	ND	10	ug/L

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TAIT ENVIRONMENTAL

Client Sample ID: TMW_11_WG091702_0001

GC/MS Volatiles

Lot-Sample #...: E2I170323-002 **Work Order #...:** E8D4Q1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Ethylbenzene	ND	5.0	ug/L
Hexachlorobutadiene	ND	5.0	ug/L
2-Hexanone	ND	25	ug/L
Isopropylbenzene	ND	5.0	ug/L
p-Isopropyltoluene	ND	5.0	ug/L
Methylene chloride	ND	5.0	ug/L
4-Methyl-2-pentanone	ND	25	ug/L
Methyl tert-butyl ether	ND	5.0	ug/L
n-Propylbenzene	ND	5.0	ug/L
Styrene	ND	5.0	ug/L
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L
Tetrachloroethene	**5.0**	**5.0**	**ug/L**
Toluene	ND	5.0	ug/L
1,2,3-Trichlorobenzene	ND	5.0	ug/L
1,2,4-Trichloro-benzene	ND	5.0	ug/L
1,1,1-Trichloroethane	ND	5.0	ug/L
1,1,2-Trichloroethane	ND	5.0	ug/L
Trichloroethene	**5.8**	**5.0**	**ug/L**
Trichlorofluoromethane	ND	10	ug/L
1,2,3-Trichloropropane	ND	5.0	ug/L
1,2,4-Trimethylbenzene	ND	5.0	ug/L
1,3,5-Trimethylbenzene	ND	5.0	ug/L
Xylenes (total)	ND	5.0	ug/L
Acrolein	ND	100	ug/L
Acrylonitrile	ND	100	ug/L
Vinyl acetate	ND	25	ug/L
Tetrahydrofuran	ND	50	ug/L
2-Chloroethyl vinyl ether	ND	25	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	87	(75 - 130)
1,2-Dichloroethane-d4	109	(65 - 135)
Toluene-d8	93	(80 - 130)

TAIT ENVIRONMENTAL

Client Sample ID: TMW_11_WG091702_0001

GC/MS Volatiles

Lot-Sample #...: E2I170323-002 **Work Order #...:** E8D4Q2AA **Matrix.....:** WATER
Date Sampled...: 09/17/02 09:00 **Date Received..:** 09/17/02 17:30
Prep Date.....: 09/19/02 **Analysis Date..:** 09/19/02
Prep Batch #...: 2262459 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	2.0	ug/L
Carbon tetrachloride	**3.4**	**0.50**	**ug/L**
2-Butanone	ND	5.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon disulfide	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
Bromodichloromethane	**0.35 J**	**1.0**	**ug/L**
1,2-Dichloroethane	ND	0.50	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
Chloroethane	ND	2.0	ug/L
Chloroform	**310 E**	**1.0**	**ug/L**
Chloromethane	ND	2.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Iodomethane	ND	2.0	ug/L
Isopropyl ether	ND	2.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	0.50	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
t-Butanol	ND	25	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Tert-amyl methyl ether	ND	2.0	ug/L
Tert-butyl ethyl ether	ND	2.0	ug/L

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TAIT ENVIRONMENTAL

Client Sample ID: TMW_11_WG091702_0001

GC/MS Volatiles

Lot-Sample #...: E2I170323-002 **Work Order #...:** E8D4Q2AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
2-Hexanone	ND	5.0	ug/L
Isopropylbenzene	ND	1.0	ug/L
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Methyl tert-butyl ether	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	**4.3**	**1.0**	**ug/L**
Toluene	ND	1.0	ug/L
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro-benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	**5.2**	**1.0**	**ug/L**
Trichlorofluoromethane	ND	2.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L
Acrolein	ND	20	ug/L
Acrylonitrile	ND	20	ug/L
Vinyl acetate	ND	5.0	ug/L
Tetrahydrofuran	ND	10	ug/L
2-Chloroethyl vinyl ether	ND	5.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	85	(75 - 130)
1,2-Dichloroethane-d4	122	(65 - 135)
Toluene-d8	93	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

E Estimated result. Result concentration exceeds the calibration range.

TAIT ENVIRONMENTAL

Client Sample ID: FB_TAIT091702_0001

GC/MS Volatiles

Lot-Sample #...: E2I170323-003 **Work Order #...:** E8D4R1AA **Matrix.....:** WATER
Date Sampled...: 09/17/02 09:30 **Date Received..:** 09/17/02 17:30
Prep Date.....: 09/17/02 **Analysis Date..:** 09/18/02
Prep Batch #...: 2261237 **Method.....:** SW846 8260B

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

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TAIT ENVIRONMENTAL

Client Sample ID: FB_TAIT091702_0001

GC/MS Volatiles

Lot-Sample #...: E2I170323-003 **Work Order #...:** E8D4R1AA **Matrix.....:** WATER

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	104	(75 - 130)
1,2-Dichloroethane-d4	106	(65 - 135)
Toluene-d8	95	(80 - 130)

TAIT ENVIRONMENTAL

Client Sample ID: TMW-15_WG091702_0001

GC/MS Volatiles

Lot-Sample #...: E2I170323-004 **Work Order #...:** E8D4T1AA **Matrix.....:** WATER
Date Sampled...: 09/17/02 10:27 **Date Received..:** 09/17/02 17:30
Prep Date.....: 09/18/02 **Analysis Date..:** 09/18/02
Prep Batch #...: 2262459 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	2.0	ug/L
Carbon tetrachloride	ND	0.50	ug/L
2-Butanone	ND	5.0	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon disulfide	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	0.50	ug/L
1,1-Dichloroethene	**0.46 J**	**1.0**	**ug/L**
Chloroethane	ND	2.0	ug/L
Chloroform	**6.5**	**1.0**	**ug/L**
Chloromethane	ND	2.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Iodomethane	ND	2.0	ug/L
Isopropyl ether	ND	2.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	**0.75 J**	**1.0**	**ug/L**
trans-1,2-Dichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	0.50	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
t-Butanol	ND	25	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Tert-amyl methyl ether	ND	2.0	ug/L
Tert-butyl ethyl ether	ND	2.0	ug/L

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TAIT ENVIRONMENTAL

Client Sample ID: TMW-15_WG091702_0001

GC/MS Volatiles

Lot-Sample #...: E2I170323-004 **Work Order #...:** E8D4T1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Ethylbenzene	ND	1.0	ug/L
Hexachlorobutadiene	ND	1.0	ug/L
2-Hexanone	ND	5.0	ug/L
Isopropylbenzene	ND	1.0	ug/L
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	**1.2**	**1.0**	**ug/L**
4-Methyl-2-pentanone	ND	5.0	ug/L
Methyl tert-butyl ether	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	**4.4**	**1.0**	**ug/L**
1,2,3-Trichlorobenzene	ND	1.0	ug/L
1,2,4-Trichloro-benzene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	**25**	**1.0**	**ug/L**
Trichlorofluoromethane	ND	2.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	**0.42 J**	**1.0**	**ug/L**
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L
Acrolein	ND	20	ug/L
Acrylonitrile	ND	20	ug/L
Vinyl acetate	ND	5.0	ug/L
Tetrahydrofuran	ND	10	ug/L
2-Chloroethyl vinyl ether	ND	5.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	92	(75 - 130)
1,2-Dichloroethane-d4	123	(65 - 135)
Toluene-d8	94	(80 - 130)

NOTE(S):

J Estimated result. Result is less than RL.

TAIT ENVIRONMENTAL

Client Sample ID: TB_TAIT091702_0001

GC/MS Volatiles

Lot-Sample #...: E2I170323-005 **Work Order #...:** E8D4V1AA **Matrix.....:** WATER
Date Sampled...: 09/17/02 **Date Received..:** 09/17/02 17:30
Prep Date.....: 09/18/02 **Analysis Date..:** 09/18/02
Prep Batch #...: 2262459 **Method.....:** SW846 8260B

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

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TAIT ENVIRONMENTAL

Client Sample ID: TB_TAIT091702_0001

GC/MS Volatiles

Lot-Sample #...: E2I170323-005 **Work Order #...:** E8D4V1AA **Matrix.....:** WATER

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	92	(75 - 130)
1,2-Dichloroethane-d4	118	(65 - 135)
Toluene-d8	96	(80 - 130)

QC DATA ASSOCIATION SUMMARY

E2I170323

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	SW846 8260B		2261237	2261107
002	WATER	SW846 8260B		2262459	2262209
003	WATER	SW846 8260B		2261237	2261107
004	WATER	SW846 8260B		2262459	2262209
005	WATER	SW846 8260B		2262459	2262209

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E2I170323 **Work Order #...:** E8ENG1AA **Matrix.....:** WATER
MB Lot-Sample #: E2I180000-237

Prep Date.....: 09/17/02
Analysis Date..: 09/17/02 **Prep Batch #...:** 2261237

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
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Hexachlorobutadiene	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E2I170323 **Work Order #...:** E8ENG1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
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 - 130)
1,2-Dichloroethane-d4	107	(65 - 135)
Toluene-d8	90	(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 #...: E2I170323 **Work Order #...:** E8JCT1AA **Matrix.....:** WATER
MB Lot-Sample #: E2I190000-459

Prep Date.....: 09/18/02
Analysis Date..: 09/18/02 **Prep Batch #...:** 2262459

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
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Hexachlorobutadiene	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E2I170323 **Work Order #...:** E8JCT1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
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	95	(75 - 130)
1,2-Dichloroethane-d4	124	(65 - 135)
Toluene-d8	96	(80 - 130)

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E2I170323 **Work Order #...:** E8ENG1AC **Matrix.....:** WATER
LCS Lot-Sample#: E2I180000-237
Prep Date.....: 09/17/02 **Analysis Date..:** 09/17/02
Prep Batch #...: 2261237

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzene	**99**	**(75 - 120)**	**SW846 8260B**
Chlorobenzene	**97**	**(75 - 120)**	**SW846 8260B**
1,1-Dichloroethene	**112**	**(70 - 140)**	**SW846 8260B**
Toluene	**100**	**(75 - 125)**	**SW846 8260B**
Trichloroethene	**109**	**(70 - 130)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	106	(75 - 130)
1,2-Dichloroethane-d4	96	(65 - 135)
Toluene-d8	97	(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 #...: E2I170323 **Work Order #...:** E8ENG1AC **Matrix.....:** WATER
LCS Lot-Sample#: E2I180000-237
Prep Date.....: 09/17/02 **Analysis Date..:** 09/17/02
Prep Batch #...: 2261237

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzene	**10.0**	**9.89**	**ug/L**	**99**	**SW846 8260B**
Chlorobenzene	**10.0**	**9.66**	**ug/L**	**97**	**SW846 8260B**
1,1-Dichloroethene	**10.0**	**11.2**	**ug/L**	**112**	**SW846 8260B**
Toluene	**10.0**	**9.97**	**ug/L**	**100**	**SW846 8260B**
Trichloroethene	**10.0**	**10.9**	**ug/L**	**109**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	106	(75 - 130)
1,2-Dichloroethane-d4	96	(65 - 135)
Toluene-d8	97	(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 #...: E2I170323 **Work Order #...:** E8JCT1AC **Matrix.....:** WATER
LCS Lot-Sample#: E2I190000-459
Prep Date.....: 09/18/02 **Analysis Date..:** 09/18/02
Prep Batch #...: 2262459

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzene	**95**	**(75 - 120)**	**SW846 8260B**
Chlorobenzene	**94**	**(75 - 120)**	**SW846 8260B**
1,1-Dichloroethene	**105**	**(70 - 140)**	**SW846 8260B**
Toluene	**95**	**(75 - 125)**	**SW846 8260B**
Trichloroethene	**102**	**(70 - 130)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	99	(75 - 130)
1,2-Dichloroethane-d4	114	(65 - 135)
Toluene-d8	102	(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 #...: E2I170323 **Work Order #...:** E8JCT1AC **Matrix.....:** WATER
LCS Lot-Sample#: E2I190000-459
Prep Date.....: 09/18/02 **Analysis Date..:** 09/18/02
Prep Batch #...: 2262459

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzene	**10.0**	**9.46**	**ug/L**	**95**	**SW846 8260B**
Chlorobenzene	**10.0**	**9.37**	**ug/L**	**94**	**SW846 8260B**
1,1-Dichloroethene	**10.0**	**10.5**	**ug/L**	**105**	**SW846 8260B**
Toluene	**10.0**	**9.47**	**ug/L**	**95**	**SW846 8260B**
Trichloroethene	**10.0**	**10.2**	**ug/L**	**102**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	99	(75 - 130)
1,2-Dichloroethane-d4	114	(65 - 135)
Toluene-d8	102	(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

Client Lot #...: E2I170323 **Work Order #...:** E8CN21AC-MS **Matrix.....:** WATER
MS Lot-Sample #: E2I170153-004 E8CN21AD-MSD
Date Sampled...: 09/16/02 12:30 **Date Received..:** 09/16/02 17:01
Prep Date.....: 09/17/02 **Analysis Date..:** 09/18/02
Prep Batch #...: 2261237

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**103**	**(75 - 120)**			**SW846 8260B**
	102	**(75 - 120)**	**0.77**	**(0-25)**	**SW846 8260B**
Chlorobenzene	**100**	**(75 - 120)**			**SW846 8260B**
	99	**(75 - 120)**	**0.30**	**(0-25)**	**SW846 8260B**
1,1-Dichloroethene	**118**	**(70 - 140)**			**SW846 8260B**
	116	**(70 - 140)**	**2.2**	**(0-25)**	**SW846 8260B**
Toluene	**101**	**(75 - 125)**			**SW846 8260B**
	99	**(75 - 125)**	**2.2**	**(0-25)**	**SW846 8260B**
Trichloroethene	**116**	**(70 - 130)**			**SW846 8260B**
	116	**(70 - 130)**	**0.37**	**(0-25)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	118	(75 - 130)
	116	(75 - 130)
1,2-Dichloroethane-d4	125	(65 - 135)
	125	(65 - 135)
Toluene-d8	99	(80 - 130)
	98	(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 #...: E2I170323 **Work Order #...:** E8CN21AC-MS **Matrix.....:** WATER
MS Lot-Sample #: E2I170153-004 E8CN21AD-MSD
Date Sampled...: 09/16/02 12:30 **Date Received..:** 09/16/02 17:01
Prep Date.....: 09/17/02 **Analysis Date..:** 09/18/02
Prep Batch #...: 2261237

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzene	**ND**	**10.0**	**10.3**	**ug/L**	**103**		**SW846 8260B**
	ND	**10.0**	**10.2**	**ug/L**	**102**	**0.77**	**SW846 8260B**
Chlorobenzene	**ND**	**10.0**	**9.97**	**ug/L**	**100**		**SW846 8260B**
	ND	**10.0**	**9.94**	**ug/L**	**99**	**0.30**	**SW846 8260B**
1,1-Dichloroethene	**ND**	**10.0**	**11.8**	**ug/L**	**118**		**SW846 8260B**
	ND	**10.0**	**11.6**	**ug/L**	**116**	**2.2**	**SW846 8260B**
Toluene	**ND**	**10.0**	**10.1**	**ug/L**	**101**		**SW846 8260B**
	ND	**10.0**	**9.92**	**ug/L**	**99**	**2.2**	**SW846 8260B**
Trichloroethene	**1.7**	**10.0**	**13.4**	**ug/L**	**116**		**SW846 8260B**
	1.7	**10.0**	**13.3**	**ug/L**	**116**	**0.37**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	118	(75 - 130)
	116	(75 - 130)
1,2-Dichloroethane-d4	125	(65 - 135)
	125	(65 - 135)
Toluene-d8	99	(80 - 130)
	98	(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

Client Lot #...: E2I170323 **Work Order #...:** E8E901AC-MS **Matrix.....:** WATER
MS Lot-Sample #: E2I180212-011 E8E901AD-MSD
Date Sampled...: 09/17/02 11:45 **Date Received..:** 09/18/02 10:10
Prep Date.....: 09/19/02 **Analysis Date..:** 09/19/02
Prep Batch #...: 2262459

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**90**	**(75 - 120)**			**SW846 8260B**
	93	**(75 - 120)**	**2.7**	**(0-25)**	**SW846 8260B**
Chlorobenzene	**92**	**(75 - 120)**			**SW846 8260B**
	90	**(75 - 120)**	**2.1**	**(0-25)**	**SW846 8260B**
1,1-Dichloroethene	**102**	**(70 - 140)**			**SW846 8260B**
	102	**(70 - 140)**	**0.19**	**(0-25)**	**SW846 8260B**
Toluene	**91**	**(75 - 125)**			**SW846 8260B**
	90	**(75 - 125)**	**0.33**	**(0-25)**	**SW846 8260B**
Trichloroethene	**100**	**(70 - 130)**			**SW846 8260B**
	102	**(70 - 130)**	**1.7**	**(0-25)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	98	(75 - 130)
	96	(75 - 130)
1,2-Dichloroethane-d4	129	(65 - 135)
	126	(65 - 135)
Toluene-d8	96	(80 - 130)
	95	(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 #...: E2I170323 **Work Order #...:** E8E901AC-MS **Matrix.....:** WATER
MS Lot-Sample #: E2I180212-011 E8E901AD-MSD
Date Sampled...: 09/17/02 11:45 **Date Received..:** 09/18/02 10:10
Prep Date.....: 09/19/02 **Analysis Date..:** 09/19/02
Prep Batch #...: 2262459

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzene	**ND**	**10.0**	**9.04**	**ug/L**	**90**		**SW846 8260B**
	ND	**10.0**	**9.29**	**ug/L**	**93**	**2.7**	**SW846 8260B**
Chlorobenzene	**ND**	**10.0**	**9.24**	**ug/L**	**92**		**SW846 8260B**
	ND	**10.0**	**9.05**	**ug/L**	**90**	**2.1**	**SW846 8260B**
1,1-Dichloroethene	**ND**	**10.0**	**10.2**	**ug/L**	**102**		**SW846 8260B**
	ND	**10.0**	**10.2**	**ug/L**	**102**	**0.19**	**SW846 8260B**
Toluene	**ND**	**10.0**	**9.07**	**ug/L**	**91**		**SW846 8260B**
	ND	**10.0**	**9.04**	**ug/L**	**90**	**0.33**	**SW846 8260B**
Trichloroethene	**0.68**	**10.0**	**10.7**	**ug/L**	**100**		**SW846 8260B**
	0.68	**10.0**	**10.9**	**ug/L**	**102**	**1.7**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	98	(75 - 130)
	96	(75 - 130)
1,2-Dichloroethane-d4	129	(65 - 135)
	126	(65 - 135)
Toluene-d8	96	(80 - 130)
	95	(80 - 130)

NOTE(S):

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

Bold print denotes control parameters