SEVERN TRENT STL

Sample Data Summary Package For Wet Chemistry

WET CHEMISTRY

Sample Report Summary

Client Sample No.
MODELING CLAY

b Name: STL BURLINGTON
Contract:
SDG No.: 100862

b Code: STLVT
Case No.: 24000
Lab Sample ID: 576337

atrix: SOLID
Client: ROUX2
Date Received: 06/19/04

Solids: 46.8

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
IN623	Solids, Percent	06/22/04	N/A	%	1.0		46.8	

nted on: 06/23/04 02:38 PM

SEVERN TRENT STL

METHOD 8260B

VOLATILE ORGANIC ANALYSIS

SAMPLE DATA SUMMARY PACKAGE

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ROUX2 SAMPLE NO.

MODEL CLAY

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 100862

Matrix: (soil/water) SOIL Lab Sample ID: 576337

Sample wt/vol: 3.6 (g/mL) G Lab File ID: 576337

Level: (low/med) LOW Date Received: 06/19/04

% Moisture: not dec. 53 Date Analyzed: 06/22/04

GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	15	U
74-87-3	Chloromethane	15	U
75-01-4	Vinyl Chloride	15	U
74-83-9	Bromomethane	15	U
75-00-3	Chloroethane	15	U
75-69-4	Trichlorofluoromethane	15	U
107-02-8	Acrolein	15	U
76-13-1	Freon TF	15	U
75-35-4	1,1-Dichloroethene	260	
67-64-1	Acetone	15	U
74-88-4	Methyl Iodide	15	U
75-15-0	Carbon Disulfide	15	U
107-05-1	Allyl Chloride	15	U
75-09-2	Methylene Chloride	15	U
107-13-1	Acrylonitrile	46	
156-60-5	trans-1,2-Dichloroethene	15	U
540-59-0	1,2-Dichloroethene (total)	15	U
1634-04-4	Methyl-t-Butyl Ether	15	U
75-34-3	1,1-Dichloroethane	15	U
108-05-4	Vinyl Acetate	15	U
126-99-8	Chloroprene	15	U
156-59-2	cis-1,2-Dichloroethene	15	U
78-93-3	2-Butanone	14	J
107-12-0	Propionitrile	58	U
126-98-7	Methacrylonitrile	15	U
74-97-5	Bromochloromethane	15	U
109-99-9	Tetrahydrofuran	150	U
67-66-3	Chloroform	15	U
71-55-6	1,1,1-Trichloroethane	15	U
56-23-5	Carbon Tetrachloride	15	U
78-83-1	Isobutyl Alcohol	730	U
71-43-2	Benzene	15	U
107-06-2	1,2-Dichloroethane	15	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ROUX2 SAMPLE NO.

MODEL CLAY

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 100862

Matrix: (soil/water) SOIL Lab Sample ID: 576337

Sample wt/vol: 3.6 (g/mL) G Lab File ID: 576337

Level: (low/med) LOW Date Received: 06/19/04

% Moisture: not dec. 53 Date Analyzed: 06/22/04

GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	15	U
78-87-5	1,2-Dichloropropane	15	U
80-62-6	Methyl Methacrylate	15	U
74-95-3	Dibromomethane	15	U
123-91-1	1,4-Dioxane	730	U
75-27-4	Bromodichloromethane	15	U
110-75-8	2-Chloroethyl Vinyl Ether	15	U
10061-01-5	cis-1,3-Dichloropropene	15	U
108-10-1	4-Methyl-2-pentanone	15	U
108-88-3	Toluene	15	U
10061-02-6	trans-1,3-Dichloropropene	15	U
97-63-2	Ethyl Methacrylate	15	U
79-00-5	1,1,2-Trichloroethane	15	U
127-18-4	Tetrachloroethene	15	U
591-78-6	2-Hexanone	15	U
124-48-1	Dibromochloromethane	15	U
106-93-4	1,2-Dibromoethane	15	U
108-90-7	Chlorobenzene	15	U
630-20-6	1,1,1,2-Tetrachloroethane	15	U
100-41-4	Ethylbenzene	15	U
1330-20-7	Xylene (m,p)	15	U
1330-20-7	Xylene (total)	15	U
95-47-6	Xylene (o)	15	U
100-42-5	Styrene	15	U
75-25-2	Bromoform	15	U
98-82-8	Isopropylbenzene	15	U
1476-11-5	cis-1,4-Dichloro-2-butene	15	U
79-34-5	1,1,2,2-Tetrachloroethane	15	U
96-18-4	1,2,3-Trichloropropane	15	U
110-57-6	trans-1,4-Dichloro-2-butene	15	U
541-73-1	1,3-Dichlorobenzene	15	U
106-46-7	1,4-Dichlorobenzene	15	U
95-50-1	1,2-Dichlorobenzene	15	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ROUX2 SAMPLE NO.

MODEL CLAY

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 100862

Matrix: (soil/water) SOIL Lab Sample ID: 576337

Sample wt/vol: 3.6 (g/mL) G Lab File ID: 576337

Level: (low/med) LOW Date Received: 06/19/04

% Moisture: not dec. 53 Date Analyzed: 06/22/04

GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
96-12-8	1,2-Dibromo-3-Chloropropane	15	U
120-82-1	1,2,4-Trichlorobenzene	15	U
87-68-3	Hexachlorobutadiene	15	U
91-20-3	Naphthalene	4.1	JB
594-20-7	2,2-Dichloropropane	15	U
563-58-6	1,1-Dichloropropene	15	U
142-28-9	1,3-Dichloropropane	15	U
108-86-1	Bromobenzene	15	U
103-65-1	n-Propylbenzene	15	U
95-49-8	2-Chlorotoluene	15	U
106-43-4	4-Chlorotoluene	15	U
108-67-8	1,3,5-Trimethylbenzene	15	U
98-06-6	tert-Butylbenzene	15	U
95-63-6	1,2,4-Trimethylbenzene	15	U
135-98-8	sec-Butylbenzene	15	U
99-87-6	4-Isopropyltoluene	15	U
104-51-8	n-Butylbenzene	15	U
87-61-6	1,2,3-Trichlorobenzene	15	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

NXXI LCS

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 100862

Matrix: (soil/water) SOIL Lab Sample ID: NXXI LCS

Sample wt/vol: 5.0 (g/mL) G Lab File ID: NXX50IQ

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 06/21/04

GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	50	
74-87-3	Chloromethane	45	
75-01-4	Vinyl Chloride	50	
74-83-9	Bromomethane	60	
75-00-3	Chloroethane	52	
75-69-4	Trichlorofluoromethane	52	
107-02-8	Acrolein	41	
76-13-1	Freon TF	52	
75-35-4	1,1-Dichloroethene	53	
67-64-1	Acetone	47	
74-88-4	Methyl Iodide	59	
75-15-0	Carbon Disulfide	49	
107-05-1	Allyl Chloride	45	
75-09-2	Methylene Chloride	48	
107-13-1	Acrylonitrile	46	
156-60-5	trans-1,2-Dichloroethene	51	
540-59-0	1,2-Dichloroethene (total)	100	
1634-04-4	Methyl-t-Butyl Ether	47	
75-34-3	1,1-Dichloroethane	49	
108-05-4	Vinyl Acetate	47	
126-99-8	Chloroprene	46	
156-59-2	cis-1,2-Dichloroethene	51	
78-93-3	2-Butanone	50	
107-12-0	Propionitrile	200	
126-98-7	Methacrylonitrile	47	
74-97-5	Bromochloromethane	50	
109-99-9	Tetrahydrofuran	440	
67-66-3	Chloroform	48	
71-55-6	1,1,1-Trichloroethane	48	
56-23-5	Carbon Tetrachloride	47	
78-83-1	Isobutyl Alcohol	2300	
71-43-2	Benzene	47	
107-06-2	1,2-Dichloroethane	44	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

NXXI LCS

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 100862

Matrix: (soil/water) SOIL Lab Sample ID: NXXI LCS

Sample wt/vol: 5.0 (g/mL) G Lab File ID: NXX50IQ

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 06/21/04

GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	48	
78-87-5	1,2-Dichloropropane	47	
80-62-6	Methyl Methacrylate	45	
74-95-3	Dibromomethane	46	
123-91-1	1,4-Dioxane	2400	
75-27-4	Bromodichloromethane	46	
110-75-8	2-Chloroethyl Vinyl Ether	54	
10061-01-5	cis-1,3-Dichloropropene	46	
108-10-1	4-Methyl-2-pentanone	44	
108-88-3	Toluene	48	
10061-02-6	trans-1,3-Dichloropropene	45	
97-63-2	Ethyl Methacrylate	46	
79-00-5	1,1,2-Trichloroethane	45	
127-18-4	Tetrachloroethene	47	
591-78-6	2-Hexanone	43	
124-48-1	Dibromochloromethane	46	
106-93-4	1,2-Dibromoethane	46	
108-90-7	Chlorobenzene	47	
630-20-6	1,1,1,2-Tetrachloroethane	47	
100-41-4	Ethylbenzene	47	
1330-20-7	Xylene (m,p)	94	
1330-20-7	Xylene (total)	140	
95-47-6	Xylene (o)	47	
100-42-5	Styrene	48	
75-25-2	Bromoform	46	
98-82-8	Isopropylbenzene	47	
1476-11-5	cis-1,4-Dichloro-2-butene	42	
79-34-5	1,1,2,2-Tetrachloroethane	44	
96-18-4	1,2,3-Trichloropropane	45	
110-57-6	trans-1,4-Dichloro-2-butene	42	
541-73-1	1,3-Dichlorobenzene	48	
106-46-7	1,4-Dichlorobenzene	50	
95-50-1	1,2-Dichlorobenzene	48	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

NXXI LCS

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 100862

Matrix: (soil/water) SOIL Lab Sample ID: NXXI LCS

Sample wt/vol: 5.0 (g/mL) G Lab File ID: NXX50IQ

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 06/21/04

GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
96-12-8	1,2-Dibromo-3-Chloropropane	44	
120-82-1	1,2,4-Trichlorobenzene	55	
87-68-3	Hexachlorobutadiene	58	
91-20-3	Naphthalene	48	B
594-20-7	2,2-Dichloropropane	48	
563-58-6	1,1-Dichloropropene	47	
142-28-9	1,3-Dichloropropane	45	
108-86-1	Bromobenzene	47	
103-65-1	n-Propylbenzene	48	
95-49-8	2-Chlorotoluene	48	
106-43-4	4-Chlorotoluene	48	
108-67-8	1,3,5-Trimethylbenzene	48	
98-06-6	tert-Butylbenzene	48	
95-63-6	1,2,4-Trimethylbenzene	47	
135-98-8	sec-Butylbenzene	48	
99-87-6	4-Isopropyltoluene	48	
104-51-8	n-Butylbenzene	52	
87-61-6	1,2,3-Trichlorobenzene	53	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

NXXI LCSD

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 100862

Matrix: (soil/water) SOIL Lab Sample ID: NXXI LCSD

Sample wt/vol: 5.0 (g/mL) G Lab File ID: NXX50IQ2

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 06/21/04

GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	42	
74-87-3	Chloromethane	38	
75-01-4	Vinyl Chloride	43	
74-83-9	Bromomethane	52	
75-00-3	Chloroethane	48	
75-69-4	Trichlorofluoromethane	47	
107-02-8	Acrolein	42	
76-13-1	Freon TF	48	
75-35-4	1,1-Dichloroethene	48	
67-64-1	Acetone	39	
74-88-4	Methyl Iodide	56	
75-15-0	Carbon Disulfide	44	
107-05-1	Allyl Chloride	38	
75-09-2	Methylene Chloride	47	
107-13-1	Acrylonitrile	43	
156-60-5	trans-1,2-Dichloroethene	53	
540-59-0	1,2-Dichloroethene (total)	100	
1634-04-4	Methyl-t-Butyl Ether	45	
75-34-3	1,1-Dichloroethane	48	
108-05-4	Vinyl Acetate	38	
126-99-8	Chloroprene	43	
156-59-2	cis-1,2-Dichloroethene	53	
78-93-3	2-Butanone	47	
107-12-0	Propionitrile	190	
126-98-7	Methacrylonitrile	47	
74-97-5	Bromochloromethane	52	
109-99-9	Tetrahydrofuran	390	
67-66-3	Chloroform	47	
71-55-6	1,1,1-Trichloroethane	49	
56-23-5	Carbon Tetrachloride	48	
78-83-1	Isobutyl Alcohol	2000	
71-43-2	Benzene	45	
107-06-2	1,2-Dichloroethane	42	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

NXXI LCSD

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 100862

Matrix: (soil/water) SOIL Lab Sample ID: NXXI LCSD

Sample wt/vol: 5.0 (g/mL) G Lab File ID: NXX50IQ2

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 06/21/04

GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	49	
78-87-5	1,2-Dichloropropane	45	
80-62-6	Methyl Methacrylate	47	
74-95-3	Dibromomethane	46	
123-91-1	1,4-Dioxane	2500	
75-27-4	Bromodichloromethane	44	
110-75-8	2-Chloroethyl Vinyl Ether	53	
10061-01-5	cis-1,3-Dichloropropene	44	
108-10-1	4-Methyl-2-pentanone	36	
108-88-3	Toluene	50	
10061-02-6	trans-1,3-Dichloropropene	45	
97-63-2	Ethyl Methacrylate	44	
79-00-5	1,1,2-Trichloroethane	45	
127-18-4	Tetrachloroethene	56	
591-78-6	2-Hexanone	41	
124-48-1	Dibromochloromethane	48	
106-93-4	1,2-Dibromoethane	49	
108-90-7	Chlorobenzene	50	
630-20-6	1,1,1,2-Tetrachloroethane	49	
100-41-4	Ethylbenzene	49	
1330-20-7	Xylene (m,p)	100	
1330-20-7	Xylene (total)	150	
95-47-6	Xylene (o)	49	
100-42-5	Styrene	50	
75-25-2	Bromoform	50	
98-82-8	Isopropylbenzene	50	
1476-11-5	cis-1,4-Dichloro-2-butene	42	
79-34-5	1,1,2,2-Tetrachloroethane	44	
96-18-4	1,2,3-Trichloropropane	47	
110-57-6	trans-1,4-Dichloro-2-butene	39	
541-73-1	1,3-Dichlorobenzene	49	
106-46-7	1,4-Dichlorobenzene	50	
95-50-1	1,2-Dichlorobenzene	48	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

NXXI LCSD

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 100862

Matrix: (soil/water) SOIL Lab Sample ID: NXXI LCSD

Sample wt/vol: 5.0 (g/mL) G Lab File ID: NXX50IQ2

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 06/21/04

GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
96-12-8	1,2-Dibromo-3-Chloropropane	41	
120-82-1	1,2,4-Trichlorobenzene	50	
87-68-3	Hexachlorobutadiene	55	
91-20-3	Naphthalene	46	B
594-20-7	2,2-Dichloropropane	46	
563-58-6	1,1-Dichloropropene	45	
142-28-9	1,3-Dichloropropane	45	
108-86-1	Bromobenzene	50	
103-65-1	n-Propylbenzene	49	
95-49-8	2-Chlorotoluene	49	
106-43-4	4-Chlorotoluene	49	
108-67-8	1,3,5-Trimethylbenzene	50	
98-06-6	tert-Butylbenzene	47	
95-63-6	1,2,4-Trimethylbenzene	49	
135-98-8	sec-Butylbenzene	50	
99-87-6	4-Isopropyltoluene	48	
104-51-8	n-Butylbenzene	49	
87-61-6	1,2,3-Trichlorobenzene	48	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKW8

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 100862

Matrix: (soil/water) SOIL Lab Sample ID: VBLKW8

Sample wt/vol: 5.0 (g/mL) G Lab File ID: NXXB01I

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 06/21/04

GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl Chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
107-02-8	Acrolein	5.0	U
76-13-1	Freon TF	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
67-64-1	Acetone	5.0	U
74-88-4	Methyl Iodide	5.0	U
75-15-0	Carbon Disulfide	5.0	U
107-05-1	Allyl Chloride	5.0	U
75-09-2	Methylene Chloride	5.0	U
107-13-1	Acrylonitrile	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
1634-04-4	Methyl-t-Butyl Ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
108-05-4	Vinyl Acetate	5.0	U
126-99-8	Chloroprene	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	5.0	U
107-12-0	Propionitrile	20	U
126-98-7	Methacrylonitrile	5.0	U
74-97-5	Bromochloromethane	5.0	U
109-99-9	Tetrahydrofuran	50	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
78-83-1	Isobutyl Alcohol	250	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKW8

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 100862

Matrix: (soil/water) SOIL Lab Sample ID: VBLKW8

Sample wt/vol: 5.0 (g/mL) G Lab File ID: NXXB01I

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 06/21/04

GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
80-62-6	Methyl Methacrylate	5.0	U
74-95-3	Dibromomethane	5.0	U
123-91-1	1,4-Dioxane	250	U
75-27-4	Bromodichloromethane	5.0	U
110-75-8	2-Chloroethyl Vinyl Ether	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
97-63-2	Ethyl Methacrylate	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
630-20-6	1,1,1,2-Tetrachloroethane	5.0	U
100-41-4	Ethylbenzene	5.0	U
1330-20-7	Xylene (m,p)	5.0	U
1330-20-7	Xylene (total)	5.0	U
95-47-6	Xylene (o)	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
1476-11-5	cis-1,4-Dichloro-2-butene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
96-18-4	1,2,3-Trichloropropane	5.0	U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKW8

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 100862

Matrix: (soil/water) SOIL Lab Sample ID: VBLKW8

Sample wt/vol: 5.0 (g/mL) G Lab File ID: NXXB01I

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 06/21/04

GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
91-20-3	Naphthalene	1.2	J
594-20-7	2,2-Dichloropropane	5.0	U
563-58-6	1,1-Dichloropropene	5.0	U
142-28-9	1,3-Dichloropropane	5.0	U
108-86-1	Bromobenzene	5.0	U
103-65-1	n-Propylbenzene	5.0	U
95-49-8	2-Chlorotoluene	5.0	U
106-43-4	4-Chlorotoluene	5.0	U
108-67-8	1,3,5-Trimethylbenzene	5.0	U
98-06-6	tert-Butylbenzene	5.0	U
95-63-6	1,2,4-Trimethylbenzene	5.0	U
135-98-8	sec-Butylbenzene	5.0	U
99-87-6	4-Isopropyltoluene	5.0	U
104-51-8	n-Butylbenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

FORM 2
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 100862

Level:(low/med) LOW

	CLIENT SAMPLE NO.	SMC1 (TOL) #	SMC2 (DCE) #	SMC3 (BFB) #	OTHER (DCB) #	TOT OUT
01	NXXI LCS	95	92	95	101	0
02	NXXI LCSD	101	85	96	99	0
03	VBLKW8	102	84	99	96	0
04	MODEL CLAY	109	101	105	101	0
05						
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		QC LIMITS
SMC1 (TOL)	= Toluene-d8	(81-117)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(80-120)
SMC3 (BFB)	= Bromofluorobenzene	(74-121)
OTHER (DCB)	= 1,2-Dichlorobenzene-d4	(80-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 100862

Matrix Spike - Sample No.: NXXI LCS Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Dichlorodifluoromethane	50		50	100	78-116
Chloromethane	50		45	90	68-118
Vinyl Chloride	50		50	100	78-118
Bromomethane	50		60	120*	72-118
Chloroethane	50		52	104	65-113
Trichlorofluoromethane	50		52	104	67-111
Acrolein	50		41	82	60-140
Freon TF	50		52	104	60-140
1,1-Dichloroethene	50		53	106	75-113
Acetone	50		47	94	60-140
Methyl Iodide	50		59	118	60-140
Carbon Disulfide	50		49	98	60-140
Allyl Chloride	50		45	90	60-140
Methylene Chloride	50		48	96	80-110
Acrylonitrile	50		46	92	60-140
trans-1,2-Dichloroethen	50		51	102	77-109
1,2-Dichloroethene (tot	100		100	100	60-140
Methyl-t-Butyl Ether	50		47	94	60-140
1,1-Dichloroethane	50		49	98	81-111
Vinyl Acetate	50		47	94	60-140
Chloroprene	50		46	92	60-140
cis-1,2-Dichloroethene	50		51	102	81-121
2-Butanone	50		50	100	60-140
Propionitrile	200		200	100	60-140
Methacrylonitrile	50		47	94	60-140
Bromochloromethane	50		50	100	73-107
Tetrahydrofuran	500		440	88	60-140
Chloroform	50		48	96	74-106

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 100862

Matrix Spike - Sample No.: NXXI LCS Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
1,1,1-Trichloroethane	50		48	96	74-122
Carbon Tetrachloride	50		47	94	62-106
Isobutyl Alcohol	2500		2300	92	60-140
Benzene	50		47	94	78-116
1,2-Dichloroethane	50		44	88	80-110
Trichloroethene	50		48	96	70-109
1,2-Dichloropropane	50		47	94	79-115
Methyl Methacrylate	50		45	90	60-140
Dibromomethane	50		46	92	83-117
1,4-Dioxane	2500		2400	96	60-140
Bromodichloromethane	50		46	92	78-112
2-Chloroethyl Vinyl Eth	50		54	108	60-140
cis-1,3-Dichloropropene	50		46	92	60-140
4-Methyl-2-pentanone	50		44	88	60-140
Toluene	50		48	96	78-126
trans-1,3-Dichloroprope	50		45	90	60-140
Ethyl Methacrylate	50		46	92	60-140
1,1,2-Trichloroethane	50		45	90	81-126
Tetrachloroethene	50		47	94	71-107
2-Hexanone	50		43	86	60-140
Dibromochloromethane	50		46	92	72-112
1,2-Dibromoethane	50		46	92	90-114
Chlorobenzene	50		47	94	81-115
1,1,1,2-Tetrachloroetha	50		47	94	72-108
Ethylbenzene	50		47	94	74-124
Xylene (m,p)	100		94	94	78-116
Xylene (total)	150		140	93	60-140
Xylene (o)	50		47	94	81-125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 100862

Matrix Spike - Sample No.: NXXI LCS Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Styrene	50		48	96	80-124
Bromoform	50		46	92	82-120
Isopropylbenzene	50		47	94	78-124
cis-1,4-Dichloro-2-bute	50		42	84	60-140
1,1,2,2-Tetrachloroetha	50		44	88	74-108
1,2,3-Trichloropropane	50		45	90	81-137
trans-1,4-Dichloro-2-bu	50		42	84	60-140
1,3-Dichlorobenzene	50		48	96	79-119
1,4-Dichlorobenzene	50		50	100	83-123
1,2-Dichlorobenzene	50		48	96	76-110
1,2-Dibromo-3-Chloropro	50		44	88	33-132
1,2,4-Trichlorobenzene	50		55	110	81-135
Hexachlorobutadiene	50		58	116	80-120
Naphthalene	50		48	96	78-130
2,2-Dichloropropane	50		48	96	42-130
1,1-Dichloropropene	50		47	94	72-124
1,3-Dichloropropane	50		45	90	79-113
Bromobenzene	50		47	94	84-116
n-Propylbenzene	50		48	96	83-117
2-Chlorotoluene	50		48	96	73-107
4-Chlorotoluene	50		48	96	74-124
1,3,5-Trimethylbenzene	50		48	96	72-112
tert-Butylbenzene	50		48	96	80-124
1,2,4-Trimethylbenzene	50		47	94	75-123
sec-Butylbenzene	50		48	96	77-123
4-Isopropyltoluene	50		48	96	79-119
n-Butylbenzene	50		52	104	77-123
1,2,3-Trichlorobenzene	50		53	106	81-137

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 100862

Matrix Spike - Sample No.: NXXI LCS Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	50	42	84	17	40	78-116
Chloromethane	50	38	76	17	40	68-118
Vinyl Chloride	50	43	86	15	40	78-118
Bromomethane	50	52	104	14	40	72-118
Chloroethane	50	48	96	8	40	65-113
Trichlorofluoromethane	50	47	94	10	40	67-111
Acrolein	50	42	84	2	40	60-140
Freon TF	50	48	96	8	40	60-140
1,1-Dichloroethene	50	48	96	10	40	75-113
Acetone	50	39	78	19	40	60-140
Methyl Iodide	50	56	112	5	40	60-140
Carbon Disulfide	50	44	88	11	40	60-140
Allyl Chloride	50	38	76	17	40	60-140
Methylene Chloride	50	47	94	2	40	80-110
Acrylonitrile	50	43	86	7	40	60-140
trans-1,2-Dichloroethen	50	53	106	4	40	77-109
1,2-Dichloroethene (tot	100	100	100	0	40	60-140
Methyl-t-Butyl Ether	50	45	90	4	40	60-140
1,1-Dichloroethane	50	48	96	2	40	81-111
Vinyl Acetate	50	38	76	21	40	60-140
Chloroprene	50	43	86	7	40	60-140
cis-1,2-Dichloroethene	50	53	106	4	40	81-121
2-Butanone	50	47	94	6	40	60-140
Propionitrile	200	190	95	5	40	60-140
Methacrylonitrile	50	47	94	0	40	60-140
Bromochloromethane	50	52	104	4	40	73-107
Tetrahydrofuran	500	390	78	12	40	60-140
Chloroform	50	47	94	2	40	74-106

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 100862

Matrix Spike - Sample No.: NXXI LCS Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1,1-Trichloroethane	50	49	98	2	40	74-122
Carbon Tetrachloride	50	48	96	2	40	62-106
Isobutyl Alcohol	2500	2000	80	14	40	60-140
Benzene	50	45	90	4	40	78-116
1,2-Dichloroethane	50	42	84	5	40	80-110
Trichloroethene	50	49	98	2	40	70-109
1,2-Dichloropropane	50	45	90	4	40	79-115
Methyl Methacrylate	50	47	94	4	40	60-140
Dibromomethane	50	46	92	0	40	83-117
1,4-Dioxane	2500	2500	100	4	40	60-140
Bromodichloromethane	50	44	88	4	40	78-112
2-Chloroethyl Vinyl Eth	50	53	106	2	40	60-140
cis-1,3-Dichloropropene	50	44	88	4	40	60-140
4-Methyl-2-pentanone	50	36	72	20	40	60-140
Toluene	50	50	100	4	40	78-126
trans-1,3-Dichloroprope	50	45	90	0	40	60-140
Ethyl Methacrylate	50	44	88	4	40	60-140
1,1,2-Trichloroethane	50	45	90	0	40	81-126
Tetrachloroethene	50	56	112*	17	40	71-107
2-Hexanone	50	41	82	5	40	60-140
Dibromochloromethane	50	48	96	4	40	72-112
1,2-Dibromoethane	50	49	98	6	40	90-114
Chlorobenzene	50	50	100	6	40	81-115
1,1,1,2-Tetrachloroetha	50	49	98	4	40	72-108
Ethylbenzene	50	49	98	4	40	74-124
Xylene (m,p)	100	100	100	6	40	78-116
Xylene (total)	150	150	100	7	40	60-140
Xylene (o)	50	49	98	4	40	81-125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 100862

Matrix Spike - Sample No.: NXXI LCS Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Styrene	50	50	100	4	40	80-124
Bromoform	50	50	100	8	40	82-120
Isopropylbenzene	50	50	100	6	40	78-124
cis-1,4-Dichloro-2-bute	50	42	84	0	40	60-140
1,1,2,2-Tetrachloroetha	50	44	88	0	40	74-108
1,2,3-Trichloropropane	50	47	94	4	40	81-137
trans-1,4-Dichloro-2-bu	50	39	78	7	40	60-140
1,3-Dichlorobenzene	50	49	98	2	40	79-119
1,4-Dichlorobenzene	50	50	100	0	40	83-123
1,2-Dichlorobenzene	50	48	96	0	40	76-110
1,2-Dibromo-3-Chloropro	50	41	82	7	40	33-132
1,2,4-Trichlorobenzene	50	50	100	10	40	81-135
Hexachlorobutadiene	50	55	110	5	40	80-120
Naphthalene	50	46	92	4	40	78-130
2,2-Dichloropropane	50	46	92	4	40	42-130
1,1-Dichloropropene	50	45	90	4	40	72-124
1,3-Dichloropropane	50	45	90	0	40	79-113
Bromobenzene	50	50	100	6	40	84-116
n-Propylbenzene	50	49	98	2	40	83-117
2-Chlorotoluene	50	49	98	2	40	73-107
4-Chlorotoluene	50	49	98	2	40	74-124
1,3,5-Trimethylbenzene	50	50	100	4	40	72-112
tert-Butylbenzene	50	47	94	2	40	80-124
1,2,4-Trimethylbenzene	50	49	98	4	40	75-123
sec-Butylbenzene	50	50	100	4	40	77-123
4-Isopropyltoluene	50	48	96	0	40	79-119
n-Butylbenzene	50	49	98	6	40	77-123
1,2,3-Trichlorobenzene	50	48	96	10	40	81-137

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 84 outside limits
Spike Recovery: 2 out of 168 outside limits

COMMENTS: _____

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

VBLKW8

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 100862

Lab File ID: NXXB01I Lab Sample ID: VBLKW8

Date Analyzed: 06/21/04 Time Analyzed: 2306

GC Column: CAP ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID: N

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	NXXI LCS	NXXI LCS	NXX50IQ	2206
02	NXXI LCSD	NXXI LCSD	NXX50IQ2	2236
03	MODEL CLAY	576337	576337	0003
04				
05				
06				
07				
08				
09				
10				
11				
12				
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COMMENTS:

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 100862

Lab File ID: NXX02PV BFB Injection Date: 05/18/04

Instrument ID: N BFB Injection Time: 1635

GC Column: CAP ID: 0.53 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.3
75	30.0 - 60.0% of mass 95	45.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.4
173	Less than 2.0% of mass 174	0.3 (0.3)1
174	50.0 - 120.0% of mass 95	88.8
175	5.0 - 9.0% of mass 174	6.0 (6.7)1
176	95.0 - 101.0% of mass 174	86.3 (97.2)1
177	5.0 - 9.0% of mass 176	6.2 (7.2)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD005	VSTD005	NXX05V	05/18/04	1725
02	VSTD020	VSTD020	NXX20V	05/18/04	1755
03	VSTD050	VSTD050	NXX50V	05/18/04	1826
04	VSTD100	VSTD100	NXX100V	05/18/04	1856
05	VSTD200	VSTD200	NXX200V	05/18/04	1925
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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 100862

Lab File ID: NXX13PV BFB Injection Date: 06/21/04

Instrument ID: N BFB Injection Time: 2117

GC Column: CAP ID: 0.53 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.0
75	30.0 - 60.0% of mass 95	45.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	5.9
173	Less than 2.0% of mass 174	0.6 (0.7)1
174	50.0 - 120.0% of mass 95	89.1
175	5.0 - 9.0% of mass 174	5.9 (6.6)1
176	95.0 - 101.0% of mass 174	87.9 (98.7)1
177	5.0 - 9.0% of mass 176	5.9 (6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	NXX50IV	06/21/04	2137
02	NXXI LCS	NXXI LCS	NXX50IQ	06/21/04	2206
03	NXXI LCSD	NXXI LCSD	NXX50IQ2	06/21/04	2236
04	VBLKW8	VBLKW8	NXXB01I	06/21/04	2306
05	MODEL CLAY	576337	576337	06/22/04	0003
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6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 100862

Instrument ID: N Calibration Date(s): 05/18/04 05/18/04

Heated Purge: (Y/N) Y Calibration Time(s): 1725 1925

GC Column: CAP ID: 0.53 (mm)

LAB FILE ID: RRF5 =NXX05V RRF20 =NXX20V
RRF50 =NXX50V RRF100=NXX100V RRF200=NXX200V

COMPOUND	RRF5	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.548	0.599	0.613	0.517	0.444	0.544	12.6
Chloromethane *	0.296	0.308	0.303	0.256	0.222	0.277	13.4*
Vinyl Chloride	0.290	0.310	0.343	0.292	0.252	0.297	11.1
Bromomethane	0.252	0.249	0.297	0.296	0.264	0.272	8.5
Chloroethane	0.162	0.175	0.178	0.167	0.121	0.161	14.3
Trichlorofluoromethane	0.540	0.567	0.627	0.580	0.501	0.563	8.3
Acrolein	0.029	0.023	0.028	0.024	0.024	0.026	10.3
Freon TF	0.523	0.518	0.615	0.634	0.596	0.577	9.3
1,1-Dichloroethene	0.274	0.269	0.319	0.327	0.302	0.298	8.7
Acetone	0.082	0.058	0.053	0.049	0.039	0.056	28.4
Methyl Iodide	0.548	0.544	0.658	0.666	0.588	0.601	9.8
Carbon Disulfide	0.800	0.804	0.906	0.885	0.782	0.835	6.7
Allyl Chloride	0.338	0.318	0.356	0.310	0.271	0.319	10.1
Methylene Chloride	0.317	0.277	0.309	0.312	0.262	0.295	8.2
Acrylonitrile	0.063	0.059	0.065	0.063	0.060	0.062	4.3
trans-1,2-Dichloroethene	0.275	0.275	0.302	0.329	0.324	0.301	8.6
1,2-Dichloroethene (total)	0.276	0.286	0.299	0.326	0.330	0.303	7.8
Methyl-t-Butyl Ether	0.574	0.554	0.625	0.615	0.574	0.588	5.1
1,1-Dichloroethane *	0.516	0.498	0.518	0.541	0.526	0.520	3.0*
Vinyl Acetate	0.421	0.437	0.450	0.418	0.368	0.419	7.5
Chloroprene	0.346	0.345	0.334	0.342	0.310	0.335	4.5
cis-1,2-Dichloroethene	0.278	0.296	0.295	0.322	0.336	0.305	7.5
2-Butanone	0.032	0.026	0.026	0.025	0.024	0.027	11.5
Propionitrile	0.019	0.020	0.023	0.023	0.022	0.021	8.6
Methacrylonitrile	0.066	0.073	0.074	0.074	0.073	0.072	4.5
Bromochloromethane	0.193	0.201	0.202	0.208	0.208	0.202	2.9
Tetrahydrofuran	0.067	0.073	0.071	0.067	0.059	0.067	7.9
Chloroform	0.586	0.594	0.595	0.611	0.593	0.596	1.6
1,1,1-Trichloroethane	0.511	0.500	0.488	0.505	0.507	0.502	1.8
Carbon Tetrachloride	0.476	0.478	0.463	0.478	0.478	0.475	1.4
Isobutyl Alcohol	0.011	0.012	0.013	0.012	0.011	0.012	7.9
Benzene	0.839	0.866	0.826	0.843	0.826	0.840	2.0
1,2-Dichloroethane	0.343	0.349	0.340	0.320	0.294	0.329	6.8
Trichloroethene	0.369	0.383	0.365	0.378	0.380	0.375	2.0
1,2-Dichloropropane	0.335	0.360	0.355	0.346	0.335	0.346	3.3
Methyl Methacrylate	0.228	0.244	0.257	0.264	0.265	0.252	6.2
Dibromomethane	0.339	0.355	0.354	0.354	0.355	0.351	2.0

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 100862

Instrument ID: N Calibration Date(s): 05/18/04 05/18/04

Heated Purge: (Y/N) Y Calibration Time(s): 1725 1925

GC Column: CAP ID: 0.53 (mm)

LAB FILE ID: RRF5 =NXX05V RRF20 =NXX20V
RRF50 =NXX50V RRF100=NXX100V RRF200=NXX200V

COMPOUND	RRF5	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD
1,4-Dioxane	0.003	0.003	0.003	0.003	0.003	0.003	6.4
Bromodichloromethane	0.607	0.631	0.619	0.608	0.580	0.609	3.1
2-Chloroethyl Vinyl Ether	0.055	0.063	0.071	0.068	0.069	0.065	9.7
cis-1,3-Dichloropropene	0.524	0.525	0.508	0.502	0.474	0.507	4.1
4-Methyl-2-pentanone	0.340	0.345	0.320	0.277	0.242	0.305	14.5
Toluene	0.726	0.721	0.701	0.727	0.742	0.723	2.0
trans-1,3-Dichloropropene	0.510	0.522	0.530	0.519	0.503	0.517	2.0
Ethyl Methacrylate	0.392	0.431	0.435	0.412	0.396	0.413	4.8
1,1,2-Trichloroethane	0.355	0.352	0.364	0.372	0.359	0.360	2.1
Tetrachloroethene	0.644	0.639	0.612	0.689	0.706	0.658	5.9
2-Hexanone	0.268	0.280	0.294	0.250	0.220	0.262	10.9
Dibromochloromethane	0.695	0.731	0.765	0.798	0.807	0.759	6.2
1,2-Dibromoethane	0.578	0.608	0.639	0.649	0.662	0.627	5.5
Chlorobenzene *	0.950	0.967	0.931	0.954	0.981	0.957	2.0*
1,1,1,2-Tetrachloroethane	0.492	0.518	0.531	0.554	0.561	0.531	5.2
Ethylbenzene	1.464	1.534	1.447	1.484	1.527	1.491	2.6
Xylene (m,p)	0.534	0.581	0.542	0.553	0.582	0.558	4.0
Xylene (total)	0.523	0.560	0.537	0.546	0.560	0.545	2.9
Xylene (o)	0.523	0.560	0.537	0.546	0.560	0.545	2.9
Styrene	0.843	0.931	0.886	0.904	0.943	0.901	4.4
Bromoform *	0.544	0.638	0.671	0.706	0.746	0.661	11.6*
Isopropylbenzene	2.239	2.174	2.175	2.171	2.150	2.182	1.5
cis-1,4-Dichloro-2-butene	0.250	0.256	0.274	0.248	0.208	0.247	9.7
1,1,2,2-Tetrachloroethane *	1.112	1.115	1.238	1.158	1.077	1.140	5.4*
1,2,3-Trichloropropane	0.253	0.249	0.276	0.270	0.254	0.260	4.5
trans-1,4-Dichloro-2-butene	0.260	0.240	0.259	0.230	0.194	0.237	11.4
1,3-Dichlorobenzene	1.414	1.391	1.386	1.339	1.297	1.365	3.4
1,4-Dichlorobenzene	1.479	1.481	1.447	1.424	1.374	1.441	3.1
1,2-Dichlorobenzene	1.335	1.348	1.358	1.372	1.366	1.356	1.1
1,2-Dibromo-3-Chloropropane	0.237	0.228	0.248	0.218	0.189	0.224	10.1
1,2,4-Trichlorobenzene	1.065	1.109	1.056	1.012	0.916	1.032	7.1
Hexachlorobutadiene	0.779	0.886	0.752	0.730	0.693	0.768	9.5
Naphthalene	1.884	1.943	2.131	1.958	1.725	1.928	7.6
2,2-Dichloropropane	0.452	0.460	0.440	0.444	0.422	0.444	3.2
1,1-Dichloropropene	0.441	0.454	0.433	0.437	0.416	0.436	3.1
1,3-Dichloropropane	0.627	0.641	0.646	0.644	0.622	0.636	1.7
Bromobenzene	0.882	0.854	0.912	0.921	0.922	0.898	3.3

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 100862

Instrument ID: N Calibration Date(s): 05/18/04 05/18/04

Heated Purge: (Y/N) Y Calibration Time(s): 1725 1925

GC Column: CAP ID: 0.53 (mm)

LAB FILE ID: RRF5 =NXX05V RRF20 =NXX20V
RRF50 =NXX50V RRF100=NXX100V RRF200=NXX200V

COMPOUND	RRF5	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD
n-Propylbenzene	0.632	0.623	0.602	0.572	0.548	0.595	5.9
2-Chlorotoluene	0.592	0.600	0.593	0.568	0.530	0.577	5.0
4-Chlorotoluene	0.601	0.616	0.591	0.566	0.543	0.583	4.9
1,3,5-Trimethylbenzene	1.677	1.694	1.652	1.628	1.626	1.655	1.8
tert-Butylbenzene	2.383	2.450	2.475	2.391	2.391	2.418	1.7
1,2,4-Trimethylbenzene	1.715	1.684	1.614	1.593	1.564	1.634	3.9
sec-Butylbenzene	2.602	2.683	2.522	2.482	2.324	2.523	5.4
4-Isopropyltoluene	2.173	2.202	1.993	1.924	1.865	2.031	7.4
n-Butylbenzene	2.167	2.225	1.911	1.865	1.803	1.994	9.5
1,2,3-Trichlorobenzene	1.046	1.098	1.102	1.047	0.926	1.044	6.8
Toluene-d8	1.021	1.000	0.991	1.058	1.116	1.037	4.9
1,2-Dichloroethane-d4	0.290	0.286	0.278	0.267	0.250	0.274	5.9
Bromofluorobenzene	1.075	1.034	1.063	1.031	0.994	1.039	3.0
1,2-Dichlorobenzene-d4	0.870	0.859	0.874	0.892	0.898	0.879	1.8

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 100862

Instrument ID: N Calibration Date: 06/21/04 Time: 2137

Lab File ID: NXX50IV Init. Calib. Date(s): 05/18/04 05/18/04

Heated Purge: (Y/N) Y Init. Calib. Times: 1725 1925

GC Column: CAP ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D	
Dichlorodifluoromethane	0.544	0.571	0.01	5.0	20.0	
Chloromethane	0.277	0.258	0.1	6.8	20.0	
Vinyl Chloride	0.297	0.273	0.01	8.1	20.0	
Bromomethane	0.272	0.284	0.01	4.4	20.0	
Chloroethane	0.161	0.163	0.01	1.2	20.0	
Trichlorofluoromethane	0.563	0.522	0.01	7.3	20.0	
Acrolein	0.026	0.020	0.01	23.1	20.0	<-
Freon TF	0.577	0.517	0.01	10.4	20.0	
1,1-Dichloroethene	0.298	0.266	0.01	10.7	20.0	
Acetone	0.056	0.046	0.01	17.8	20.0	
Methyl Iodide	0.601	0.628	0.01	4.5	20.0	
Carbon Disulfide	0.835	0.758	0.01	9.2	20.0	
Allyl Chloride	0.319	0.286	0.01	10.3	20.0	
Methylene Chloride	0.295	0.268	0.01	9.2	20.0	
Acrylonitrile	0.062	0.057	0.01	8.1	20.0	
trans-1,2-Dichloroethene	0.301	0.285	0.01	5.3	20.0	
1,2-Dichloroethene (total)	0.303	0.294	0.01	3.0	20.0	
Methyl-t-Butyl Ether	0.588	0.562	0.01	4.4	20.0	
1,1-Dichloroethane	0.520	0.490	0.1	5.8	20.0	
Vinyl Acetate	0.419	0.417	0.01	0.5	20.0	
Chloroprene	0.335	0.310	0.01	7.5	20.0	
cis-1,2-Dichloroethene	0.305	0.304	0.01	0.3	20.0	
2-Butanone	0.027	0.024	0.01	11.1	20.0	
Propionitrile	0.021	0.022	0.01	4.8	20.0	
Methacrylonitrile	0.072	0.070	0.01	2.8	20.0	
Bromochloromethane	0.202	0.210	0.01	4.0	20.0	
Tetrahydrofuran	0.067	0.064	0.01	4.5	20.0	
Chloroform	0.596	0.573	0.01	3.8	20.0	
1,1,1-Trichloroethane	0.502	0.475	0.01	5.4	20.0	
Carbon Tetrachloride	0.475	0.450	0.01	5.3	20.0	
Isobutyl Alcohol	0.012	0.011	0.01	8.3	20.0	
Benzene	0.840	0.797	0.01	5.1	20.0	
1,2-Dichloroethane	0.329	0.308	0.01	6.4	20.0	
Trichloroethene	0.375	0.365	0.01	2.7	20.0	
1,2-Dichloropropane	0.346	0.326	0.01	5.8	20.0	
Methyl Methacrylate	0.252	0.238	0.01	5.6	20.0	
Dibromomethane	0.351	0.337	0.01	4.0	20.0	

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 100862

Instrument ID: N Calibration Date: 06/21/04 Time: 2137

Lab File ID: NXX50IV Init. Calib. Date(s): 05/18/04 05/18/04

Heated Purge: (Y/N) Y Init. Calib. Times: 1725 1925

GC Column: CAP ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
1,4-Dioxane	0.003	0.003	0.01	0.0	20.0
Bromodichloromethane	0.609	0.577	0.01	5.2	20.0
2-Chloroethyl Vinyl Ether	0.065	0.073	0.01	12.3	20.0
cis-1,3-Dichloropropene	0.507	0.487	0.01	3.9	20.0
4-Methyl-2-pentanone	0.305	0.273	0.01	10.5	20.0
Toluene	0.723	0.686	0.01	5.1	20.0
trans-1,3-Dichloropropene	0.517	0.488	0.01	5.6	20.0
Ethyl Methacrylate	0.413	0.403	0.01	2.4	20.0
1,1,2-Trichloroethane	0.360	0.338	0.01	6.1	20.0
Tetrachloroethene	0.658	0.606	0.01	7.9	20.0
2-Hexanone	0.262	0.231	0.01	11.8	20.0
Dibromochloromethane	0.759	0.709	0.01	6.6	20.0
1,2-Dibromoethane	0.627	0.595	0.01	5.1	20.0
Chlorobenzene	0.957	0.901	0.3	5.8	20.0
1,1,1,2-Tetrachloroethane	0.531	0.501	0.01	5.6	20.0
Ethylbenzene	1.491	1.423	0.01	4.6	20.0
Xylene (m,p)	0.558	0.535	0.01	4.1	20.0
Xylene (total)	0.545	0.510	0.01	6.4	20.0
Xylene (o)	0.545	0.510	0.01	6.4	20.0
Styrene	0.901	0.867	0.01	3.8	20.0
Bromoform	0.661	0.614	0.1	7.1	20.0
Isopropylbenzene	2.182	1.956	0.01	10.4	20.0
cis-1,4-Dichloro-2-butene	0.247	0.220	0.01	10.9	20.0
1,1,2,2-Tetrachloroethane	1.140	1.006	0.3	11.8	20.0
1,2,3-Trichloropropane	0.260	0.233	0.01	10.4	20.0
trans-1,4-Dichloro-2-butene	0.237	0.204	0.01	13.9	20.0
1,3-Dichlorobenzene	1.365	1.311	0.01	4.0	20.0
1,4-Dichlorobenzene	1.441	1.408	0.01	2.3	20.0
1,2-Dichlorobenzene	1.356	1.256	0.01	7.4	20.0
1,2-Dibromo-3-Chloropropane	0.224	0.190	0.01	15.2	20.0
1,2,4-Trichlorobenzene	1.032	1.187	0.01	15.0	20.0
Hexachlorobutadiene	0.768	0.907	0.01	18.1	20.0
Naphthalene	1.928	1.903	0.01	1.3	20.0
2,2-Dichloropropane	0.444	0.424	0.01	4.5	20.0
1,1-Dichloropropene	0.436	0.427	0.01	2.1	20.0
1,3-Dichloropropane	0.636	0.585	0.01	8.0	20.0
Bromobenzene	0.898	0.802	0.01	10.7	20.0

CLICK TO CONTINUE

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 24000

Lab Code: STLVT Case No.: 24000 SAS No.: SDG No.: 100862

Instrument ID: N Calibration Date: 06/21/04 Time: 2137

Lab File ID: NXX50IV Init. Calib. Date(s): 05/18/04 05/18/04

Heated Purge: (Y/N) Y Init. Calib. Times: 1725 1925

GC Column: CAP ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
n-Propylbenzene	0.595	0.566	0.01	4.9	20.0
2-Chlorotoluene	0.577	0.538	0.01	6.8	20.0
4-Chlorotoluene	0.583	0.554	0.01	5.0	20.0
1,3,5-Trimethylbenzene	1.655	1.518	0.01	8.3	20.0
tert-Butylbenzene	2.418	2.243	0.01	7.2	20.0
1,2,4-Trimethylbenzene	1.634	1.526	0.01	6.6	20.0
sec-Butylbenzene	2.523	2.377	0.01	5.8	20.0
4-Isopropyltoluene	2.031	1.982	0.01	2.4	20.0
n-Butylbenzene	1.994	2.061	0.01	3.4	20.0
1,2,3-Trichlorobenzene	1.044	1.114	0.01	6.7	20.0
Toluene-d8	1.037	0.964	0.01	7.0	20.0
1,2-Dichloroethane-d4	0.274	0.256	0.01	6.6	20.0
Bromofluorobenzene	1.039	0.945	0.01	9.0	20.0
1,2-Dichlorobenzene-d4	0.879	0.839	0.01	4.6	20.0