

US ENVIRONMENTAL PROTECTION AGENCY
60 Westview Street
Lexington, MA. 02173

Superfund Records Center
SITE: Nutmeg
BREAK: 3.2
OTHER: 42411

DATE: July 16, 1998

SUBJECT: **NUTMEG VALLEY**
- Volatile Organic Analysis by GC/MS

FROM: Joseph Montanaro, EIA

TO: Carolyn Pina-Springer, SEA & John Mullaney, USGS

THRU: William J. Andrade, Ph. D., Analytical Specialist *WJA*

PROJECT NUMBER: 98460

DATES(S) SAMPLES RECEIVED BY THE LABORATORY: 06/30/98

SAMPLE NUMBERS: WC83, WC84, WC85, WC85 REP, WC86, WC90, WC94, WC100,
Trip Blank

ANALYTICAL PROCEDURE:

EPA Method 524.2, Methods for the Determination of Organic Compounds
in Drinking Water - Supplement III, EPA/600/R-95/131, August 1995,
Modified.

QUALITY ASSURANCE

1. A laboratory blank was analyzed prior to sample analysis.
2. Each sample was spiked with three surrogate compounds at 5 ppb concentration. The results for the surrogate recoveries are reported for each sample.
3. One sample WC85, was spiked in duplicate to determine laboratory precision and accuracy.

DATA FILE: j:\chemistry\reports\voa\98460dw.wk4

ANALYTICAL PARAMETERS
PURGEABLE ORGANIC ANALYSIS

INSTRUMENTS: Varion Archon Purge and Trap Autosampler
 Tekmar LSC 2000
 Finnigan INCOS-50 XL

PURGE CONDITIONS:

Gas:	Helium
Purge Time and Flow:	8 min., 40 ml/min
Dry Purge Time and Flow:	4 min., 40 ml/min
Trap:	25 cm stainless steel (1/8 in. OD) packed with Carbopack B (10 cm), Carboxen 1000 (6 cm), and Carboxen 1001 (1 cm)
Desorption Time,Flow,Temperature:	1 min, 40 ml/min., 250 C
Bake out cycle:	8 min. at 260 C

CHROMATOGRAPHIC CONDITIONS:

Column:	Restek 502.2 40 M length, 0.18 mm id, 1.0 df (um)
Program:	Initial 35 C programmed at 8 C/min to 220 C and held 220 C for 7 minutes.
Injector and Transfer Temperatures:	200 C
Carrier Gas and Flow:	Helium, 15 ml/min

MASS SPECTROMETER CONDITIONS:

Electron Energy:	70 eV
Mass Range:	35-300 amu
Scan Rate:	1.5 seconds

US ENVIRONMENTAL PROTECTION AGENCY
REGION 1 LABORATORY
PROJECT AND REPORT FORM

Chemist Reviewing Data: William J. Andrade

Method Modification: None

Limitation of Data: None

Laboratory Blank Problems: None

Instrument Performance Problems: None

Surrogate or Spike Recovery Problems: None

Additional Comments: None

MATRIX SPIKE DUPLICATE ANALYSIS

FACILITY SAMPLED: NUTMEG VALLEY

SAMPLE NUMBER: WC85

FILE NAME(S): 07018E15 & 07018E16

DATE OF ANALYSIS: 07/01/98

ACCURACY

COMPOUND	AVERAGE % RECOVERY	ACCEPTABLE RANGE ₂
1,1 Dichloroethylene	100	50-150
Chloroform	102	62-128
1,2 Dichloroethane	108	57-141
1,1,1 Trichloroethane	102	51-142
Carbon tetrachloride	93	60-139
Bromodichloromethane	98	44-133
Trichloroethylene	99	65-132
Benzene	109	67-132
Dibromochloromethane	99	36-125
Bromoform	65	25-118
1,4 Dichlorobenzene	88	55-102
Vinyl Chloride	108	44-170

PRECISION

COMPOUND	#1 % RECOV	#2 % RECOVERY	RPD	ACCEPTABLE RANGE ₂
1,1 Dichloroethylene	90	110	20 ₁	0-15
Chloroform	96	107	11	0-23
1,2 Dichloroethane	102	115	5	0-36
1,1,1 Trichloroethane	94	110	14	0-19
Carbon tetrachloride	88	98	11	0-17
Bromodichloromethane	92	103	11	0-33
Trichloroethylene	99	99	0	0-44
Benzene	102	116	13	0-24
Dibromochloromethane	76	82	8	0-41
Bromoform	62	68	9	0-65
1,4 Dichlorobenzene	80	96	18	0-25
Vinyl Chloride	102	115	12	0-19

₁=out of range

₂=quality control acceptance criteria as per laboratory

FACILITY SAMPLED: NUTMEG VALLEY

US ENVIRONMENTAL PROTECTION AGENCY

REGION I LABORATORY

GC/MS PURGEABLE ORGANIC ANALYSIS - DRINKING WATER

SAMPLE ID: Lab Blank
 FILE NAME(S): 07018E5
 DATE OF ANALYSIS: 07/01/98

DILUTION FACTOR(S): 1

CAS No.	Compound	Conc. (ug/L)	Reporting Limits (ug/L)	MCL'S (ug/L)	QUALIFIER
REGULATED VOC'S					
75-01-4	Vinyl Chloride	ND	1	2	
75-35-4	1,1 Dichloroethylene	ND	1	7	
107-06-2	1,2 Dichloroethane	ND	1	5	
71-55-6	1,1,1 Trichloroethane	ND	1	200	
56-23-5	Carbon Tetrachloride	ND	1	5	
79-01-6	Trichloroethylene	ND	1	5	
71-43-2	Benzene	ND	1	5	
106-46-7	1,4, Dichlorobenzene	ND	1	75	
75-09-2	Methylene Chloride	ND	1	5	
156-59-2	c-1,2-Dichloroethylene	ND	1	70	
156-60-5	t-1,2-Dichloroethylene	ND	1	100	
78-87-5	1,2-Dichloropropane	ND	1	5	
79-00-5	1,1,2-Trichloroethane	ND	1	5	
127-18-4	Tetrachloroethylene	ND	1	5	
108-88-3	Toluene	ND	1	1000	
108-90-7	Chlorobenzene	ND	1	100	
100-41-4	Ethylbenzene	ND	1	700	
100-42-5	Styrene	ND	1	100	
95-50-1	1,2- Dichlorobenzene	ND	1	600	
1330-20-7	Total Xylenes	ND	2	10000	
120-82-1	1,2,4 Trichlorobenzene	ND	1	70	
TRIHALOMETHANES					
67-66-3	Chloroform	ND	1		
75-27-4	Dichlorobromomethane	ND	1		
124-48-1	Dibromochloromethane	ND	1		
75-25-2	Bromoform	ND	1		
-----	Total Trihalomethanes	ND	1	100	
UNREGULATED VOC'S				MCLG'S (ug/L)	
74-87-3	Chloromethane	ND	1		
74-83-9	Bromomethane	ND	1		
74-97-5	Bromochloromethane	ND	1		
75-00-3	Chloroethane	ND	1		
75-69-4	Trichlorofluoromethane	ND	1		
75-34-3	1,1-Dichloroethane	ND	1		
10061-02-6	t-1,3-Dichloropropene	ND	1		
10061-01-5	c-1,3-Dichloropropene	ND	1		
563-58-6	1,1-Dichloropropene	ND	1		

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - DRINKING WATER

SAMPLE ID:	Lab Blank UNREGULATED VOC'S	Conc. (ug/L)	Reporting Limits (ug/L)	MCLG's (ug/L)	QUALIFIER
108-86-1	Bromobenzene	ND	1		
79-34-5	1,1,2,2-Tetrachloroethane	ND	1		
630-20-6	1,1,1,2-Tetrachloroethane	ND	1		
103-65-1	n-Propyl Benzene	ND	1		
104-51-8	n-Butyl Benzene	ND	1		
135-98-8	sec-Butylbenzene	ND	1		
98-06-6	tert-Butylbenzene	ND	1		
541-73-1	1,3-Dichlorobenzene	ND	1		
74-95-3	Dibromomethane	ND	1		
75-71-8	Dichlorodifluoromethane	ND	1		
142-28-9	1,3-Dichloropropane	ND	1		
590-20-7	2,2-Dichloropropane	ND	1		
87-68-3	Hexachlorobutadiene	ND	1		
98-82-8	Isopropylbenzene	ND	1		
96-18-4	1,2,3-Trichloropropane	ND	1		
99-87-6	1,4 Isopropyl toluene (para)	ND	1		
91-20-3	Naphthalene	ND	1		
87-61-6	1,2,3 Trichlorobenzene	ND	1		
95-63-6	1,2,4 Trimethylbenzene	ND	1		
108-67-8	1,3,5 Trimethylbenzene	ND	1		
95-49-8	2-Chlorotoluene	ND	1		
106-43-4	4-Chlorotoluene	ND	1		

OTHER COMPOUNDS QUANTITATED

76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1	
67-64-1	Acetone	6	10	L
75-15-0	Carbon Disulfide	ND	3	
78-93-3	2-Butanone (MEK)	ND	20	
591-10-6	2-Hexanone	ND	2	
108-10-1	4-Methyl-2-Pentanone (MIBK)	ND	2	
109-99-9	Tetrahydrofuran (THF)	ND	7	
60-29-7	Ethyl Ether	ND	3	
106-93-4	1,2-Dibromoethane (EDB)	ND	1	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1	

QUALITY CONTROL		Percent	Confidence
Surrogate Compounds		Recoveries	Limits
2199-69-1	1,2-Dichlorobenzene-D4	105	60-123
2037-26-5	Toluene-D8	115	80-117
460-00-4	4-Bromofluorobenzene	127 ₁	65-118

ND=Not Detected above the reporting limit.

RL=Reporting Limit

J=Approximate

NA=Not available due to dilution or interference

B=analyte is associated with lab blank

MCL=Maximum Contaminant Level

MCLG=Maximum Contaminant Level Goal

E=estimated value exceeds the calibration range

L=estimated value is below the calibration range

±=quality control acceptance criteria as per lab

FACILITY SAMPLED: NUTMEG VALLEY

US ENVIRONMENTAL PROTECTION AGENCY

REGION I LABORATORY

GC/MS PURGEABLE ORGANIC ANALYSIS - DRINKING WATER

SAMPLE ID: WC83
 FILE NAME(S): 07018E8
 DATE OF COLLECTION: 06/26/98
 DATE OF ANALYSIS: 07/01/98

DILUTION FACTOR(S): 1
 PRESERVATIVE: Cool to 4 C
 Acidified to pH <2

CAS No.	Compound	Conc. (ug/L)	Reporting Limits (ug/L)	MCL'S (ug/L)	QUALIFIER
REGULATED VOC'S					
75-01-4	Vinyl Chloride	ND	1	2	
75-35-4	1,1 Dichloroethylene	ND	1	7	
107-06-2	1,2 Dichloroethane	ND	1	5	
71-55-6	1,1,1 Trichloroethane	2	1	200	
56-23-5	Carbon Tetrachloride	ND	1	5	
79-01-6	Trichloroethylene	2	1	5	
71-43-2	Benzene	ND	1	5	
106-46-7	1,4, Dichlorobenzene	ND	1	75	
75-09-2	Methylene Chloride	ND	1	5	
156-59-2	c-1,2-Dichloroethylene	ND	1	70	
156-60-5	t-1,2-Dichloroethylene	ND	1	100	
78-87-5	1,2-Dichloropropane	ND	1	5	
79-00-5	1,1,2-Trichloroethane	ND	1	5	
127-18-4	Tetrachloroethylene	1	1	5	L
108-88-3	Toluene	ND	1	1000	
108-90-7	Chlorobenzene	ND	1	100	
100-41-4	Ethylbenzene	ND	1	700	
100-42-5	Styrene	ND	1	100	
95-50-1	1,2- Dichlorobenzene	ND	1	600	
1330-20-7	Total Xylenes	ND	2	10000	
120-82-1	1,2,4 Trichlorobenzene	ND	1	70	
TRIHALOMETHANES					
67-66-3	Chloroform	ND	1		
75-27-4	Dichlorobromomethane	ND	1		
124-48-1	Dibromochloromethane	ND	1		
75-25-2	Bromoform	ND	1		
-----	Total Trihalomethanes	ND	1	100	
UNREGULATED VOC'S				MCLG'S (ug/L)	
74-87-3	Chloromethane	ND	1		
74-83-9	Bromomethane	ND	1		
74-97-5	Bromochloromethane	ND	1		
75-00-3	Chloroethane	ND	1		
75-69-4	Trichlorofluoromethane	ND	1		
75-34-3	1,1-Dichloroethane	ND	1		
10061-02-6	t-1,3-Dichloropropene	ND	1		
10061-01-5	c-1,3-Dichloropropene	ND	1		
563-58-6	1,1-Dichloropropene	ND	1		

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - DRINKING WATER

SAMPLE ID:	WC83	UNREGULATED VOC'S	Conc. (ug/L)	Reporting Limits (ug/L)	MCLG's (ug/L)	QUALIFIER
108-86-1		Bromobenzene	ND	1		
79-34-5		1,1,2,2-Tetrachloroethane	ND	1		
630-20-6		1,1,1,2-Tetrachloroethane	ND	1		
103-65-1		n-Propyl Benzene	ND	1		
104-51-8		n-Butyl Benzene	ND	1		
135-98-8		sec-Butylbenzene	ND	1		
98-06-6		tert-Butylbenzene	ND	1		
541-73-1		1,3-Dichlorobenzene	ND	1		
74-95-3		Dibromomethane	ND	1		
75-71-8		Dichlorodifluoromethane	ND	1		
142-28-9		1,3-Dichloropropane	ND	1		
590-20-7		2,2-Dichloropropane	ND	1		
87-68-3		Hexachlorobutadiene	ND	1		
98-82-8		Isopropylbenzene	ND	1		
96-18-4		1,2,3-Trichloropropane	ND	1		
99-87-6		1,4 Isopropyl toluene (para)	ND	1		
91-20-3		Naphthalene	ND	1		
87-61-6		1,2,3 Trichlorobenzene	ND	1		
95-63-6		1,2,4 Trimethylbenzene	ND	1		
108-67-8		1,3,5 Trimethylbenzene	ND	1		
95-49-8		2-Chlorotoluene	ND	1		
106-43-4		4-Chlorotoluene	ND	1		

OTHER COMPOUNDS QUANTITATED

76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1
67-64-1	Acetone	ND	10
75-15-0	Carbon Disulfide	ND	3
78-93-3	2-Butanone (MEK)	ND	20
591-10-6	2-Hexanone	ND	2
108-10-1	4-Methyl-2-Pentanone (MIBK)	ND	2
109-99-9	Tetrahydrofuran (THF)	ND	7
60-29-7	Ethyl Ether	ND	3
106-93-4	1,2-Dibromoethane (EDB)	ND	1
96-12-8	1,2-Dibromo-3-chloropropane	ND	1

QUALITY CONTROL		Percent	Confidence
Surrogate Compounds		Recoveries	Limits
2199-69-1	1,2-Dichlorobenzene-D4	111	60-123
2037-26-5	Toluene-D8	110	80-117
460-00-4	4-Bromofluorobenzene	132 ₁	65-118

ND=Not Detected above the reporting limit.
RL=Reporting Limit
J=Approximate
NA=Not available due to dilution or interference
B=analyte is associated with lab blank

MCL=Maximum Contaminant Level
MCLG=Maximum Contaminant Level Goal
E=estimated value exceeds the calibration range
L=estimated value is below the calibration range
2=quality control acceptance criteria as per lab

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - DRINKING WATER

SAMPLE ID: WC83

TENTATIVELY IDENTIFIED COMPOUNDS

Isopropyl Alcohol

FACILITY SAMPLED: NUTMEG VALLEY

US ENVIRONMENTAL PROTECTION AGENCY

REGION I LABORATORY

GC/MS PURGEABLE ORGANIC ANALYSIS - DRINKING WATER

SAMPLE ID: WC84

FILE NAME(S): 07018E9

DATE OF COLLECTION: 06/29/98

DATE OF ANALYSIS: 07/01/98

DILUTION FACTOR(S): 1

PRESERVATIVE: Cool to 4 C

Acidified to pH <2

CAS No.	Compound	Conc. (ug/L)	Reporting Limits (ug/L)	MCL'S (ug/L)	QUALIFIER
REGULATED VOC'S					
75-01-4	Vinyl Chloride	ND	1	2	
75-35-4	1,1 Dichloroethylene	ND	1	7	
107-06-2	1,2 Dichloroethane	ND	1	5	
71-55-6	1,1,1 Trichloroethane	ND	1	200	
56-23-5	Carbon Tetrachloride	ND	1	5	
79-01-6	Trichloroethylene	ND	1	5	
71-43-2	Benzene	ND	1	5	
106-46-7	1,4, Dichlorobenzene	ND	1	75	
75-09-2	Methylene Chloride	ND	1	5	
156-59-2	c-1,2-Dichloroethylene	ND	1	70	
156-60-5	t-1,2-Dichloroethylene	ND	1	100	
78-87-5	1,2-Dichloropropane	ND	1	5	
79-00-5	1,1,2-Trichloroethane	ND	1	5	
127-18-4	Tetrachloroethylene	ND	1	5	
108-88-3	Toluene	ND	1	1000	
108-90-7	Chlorobenzene	ND	1	100	
100-41-4	Ethylbenzene	ND	1	700	
100-42-5	Styrene	ND	1	100	
95-50-1	1,2- Dichlorobenzene	ND	1	600	
1330-20-7	Total Xylenes	ND	2	10000	
120-82-1	1,2,4 Trichlorobenzene	ND	1	70	
TRIHALOMETHANES					
67-66-3	Chloroform	1	1		L
75-27-4	Dichlorobromomethane	ND	1		
124-48-1	Dibromochloromethane	ND	1		
75-25-2	Bromoform	ND	1		
-----	Total Trihalomethanes	ND	1	100	
UNREGULATED VOC'S				MCLG'S (ug/L)	
74-87-3	Chloromethane	ND	1		
74-83-9	Bromomethane	ND	1		
74-97-5	Bromochloromethane	ND	1		
75-00-3	Chloroethane	ND	1		
75-69-4	Trichlorofluoromethane	ND	1		
75-34-3	1,1-Dichloroethane	ND	1		
10061-02-6	t-1,3-Dichloropropene	ND	1		
10061-01-5	c-1,3-Dichloropropene	ND	1		
563-58-6	1,1-Dichloropropene	ND	1		

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - DRINKING WATER

SAMPLE ID:	WC84	UNREGULATED VOC'S	Conc. (ug/L)	Reporting Limits (ug/L)	MCLG's (ug/L)	QUALIFIER
108-86-1		Bromobenzene	ND	1		
79-34-5		1,1,2,2-Tetrachloroethane	ND	1		
630-20-6		1,1,1,2-Tetrachloroethane	ND	1		
103-65-1		n-Propyl Benzene	ND	1		
104-51-8		n-Butyl Benzene	ND	1		
135-98-8		sec-Butylbenzene	ND	1		
98-06-6		tert-Butylbenzene	ND	1		
541-73-1		1,3-Dichlorobenzene	ND	1		
74-95-3		Dibromomethane	ND	1		
75-71-8		Dichlorodifluoromethane	ND	1		
142-28-9		1,3-Dichloropropane	ND	1		
590-20-7		2,2-Dichloropropane	ND	1		
87-68-3		Hexachlorobutadiene	ND	1		
98-82-8		Isopropylbenzene	ND	1		
96-18-4		1,2,3-Trichloropropane	ND	1		
99-87-6		1,4 Isopropyl toluene (para)	ND	1		
91-20-3		Naphthalene	ND	1		
87-61-6		1,2,3 Trichlorobenzene	ND	1		
95-63-6		1,2,4 Trimethylbenzene	ND	1		
108-67-8		1,3,5 Trimethylbenzene	ND	1		
95-49-8		2-Chlorotoluene	ND	1		
106-43-4		4-Chlorotoluene	ND	1		

OTHER COMPOUNDS QUANTITATED

76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1
67-64-1	Acetone	ND	10
75-15-0	Carbon Disulfide	ND	3
78-93-3	2-Butanone (MEK)	ND	20
591-10-6	2-Hexanone	ND	2
108-10-1	4-Methyl-2-Pentanone (MIBK)	ND	2
109-99-9	Tetrahydrofuran (THF)	ND	7
60-29-7	Ethyl Ether	ND	3
106-93-4	1,2-Dibromoethane (EDB)	ND	1
96-12-8	1,2-Dibromo-3-chloropropane	ND	1

QUALITY CONTROL		Percent	Confidence
Surrogate Compounds		Recoveries	Limits
2199-69-1	1,2-Dichlorobenzene-D4	107	60-123
2037-26-5	Toluene-D8	108	80-117
460-00-4	4-Bromofluorobenzene	126	65-118

ND=Not Detected above the reporting limit.
RL=Reporting Limit
J=Approximate
NA=Not available due to dilution or interference
B=analyte is associated with lab blank

MCL=Maximum Contaminant Level
MCLG=Maximum Contaminant Level Goal
E=estimated value exceeds the calibration range
L=estimated value is below the calibration range
z=quality control acceptance criteria as per lab

FACILITY SAMPLED: NUTMEG VALLEY

US ENVIRONMENTAL PROTECTION AGENCY

REGION I LABORATORY

GC/MS PURGEABLE ORGANIC ANALYSIS - DRINKING WATER

SAMPLE ID: WC85

FILE NAME(S): 07018E11

DATE OF COLLECTION: 06/29/98

DATE OF ANALYSIS: 07/01/98

DILUTION FACTOR(S): 1

PRESERVATIVE: Cool to 4 C

Acidified to pH <2

CAS No.	Compound	Conc. (ug/L)	Reporting Limits (ug/L)	MCL'S (ug/L)	QUALIFIER
REGULATED VOC'S					
75-01-4	Vinyl Chloride	ND	1	2	
75-35-4	1,1 Dichloroethylene	ND	1	7	
107-06-2	1,2 Dichloroethane	ND	1	5	
71-55-6	1,1,1 Trichloroethane	ND	1	200	
56-23-5	Carbon Tetrachloride	ND	1	5	
79-01-6	Trichloroethylene	ND	1	5	
71-43-2	Benzene	ND	1	5	
106-46-7	1,4, Dichlorobenzene	ND	1	75	
75-09-2	Methylene Chloride	ND	1	5	
156-59-2	c-1,2-Dichloroethylene	ND	1	70	
156-60-5	t-1,2-Dichloroethylene	ND	1	100	
78-87-5	1,2-Dichloropropane	ND	1	5	
79-00-5	1,1,2-Trichloroethane	ND	1	5	
127-18-4	Tetrachloroethylene	ND	1	5	
108-88-3	Toluene	ND	1	1000	
108-90-7	Chlorobenzene	ND	1	100	
100-41-4	Ethylbenzene	ND	1	700	
100-42-5	Styrene	ND	1	100	
95-50-1	1,2- Dichlorobenzene	ND	1	600	
1330-20-7	Total Xylenes	ND	2	10000	
120-82-1	1,2,4 Trichlorobenzene	ND	1	70	
TRIHALOMETHANES					
67-66-3	Chloroform	ND	1		
75-27-4	Dichlorobromomethane	ND	1		
124-48-1	Dibromochloromethane	ND	1		
75-25-2	Bromoform	ND	1		
-----	Total Trihalomethanes	ND	1	100	
UNREGULATED VOC'S				MCLG'S (ug/L)	
74-87-3	Chloromethane	ND	1		
74-83-9	Bromomethane	ND	1		
74-97-5	Bromochloromethane	ND	1		
75-00-3	Chloroethane	ND	1		
75-69-4	Trichlorofluoromethane	ND	1		
75-34-3	1,1-Dichloroethane	ND	1		
10061-02-6	t-1,3-Dichloropropene	ND	1		
10061-01-5	c-1,3-Dichloropropene	ND	1		
563-58-6	1,1-Dichloropropene	ND	1		

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - DRINKING WATER

SAMPLE ID:	WC85	UNREGULATED VOC'S	Conc. (ug/L)	Reporting Limits (ug/L)	MCLG's (ug/L)	QUALIFIER
108-86-1		Bromobenzene	ND	1		
79-34-5		1,1,2,2-Tetrachloroethane	ND	1		
630-20-6		1,1,1,2-Tetrachloroethane	ND	1		
103-65-1		n-Propyl Benzene	ND	1		
104-51-8		n-Butyl Benzene	ND	1		
135-98-8		sec-Butylbenzene	ND	1		
98-06-6		tert-Butylbenzene	ND	1		
541-73-1		1,3-Dichlorobenzene	ND	1		
74-95-3		Dibromomethane	ND	1		
75-71-8		Dichlorodifluoromethane	ND	1		
142-28-9		1,3-Dichloropropane	ND	1		
590-20-7		2,2-Dichloropropane	ND	1		
87-68-3		Hexachlorobutadiene	ND	1		
98-82-8		Isopropylbenzene	ND	1		
96-18-4		1,2,3-Trichloropropane	ND	1		
99-87-6		1,4 Isopropyl toluene (para)	ND	1		
91-20-3		Naphthalene	ND	1		
87-61-6		1,2,3 Trichlorobenzene	ND	1		
95-63-6		1,2,4 Trimethylbenzene	ND	1		
108-67-8		1,3,5 Trimethylbenzene	ND	1		
95-49-8		2-Chlorotoluene	ND	1		
106-43-4		4-Chlorotoluene	ND	1		

OTHER COMPOUNDS QUANTITATED

76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1
67-64-1	Acetone	ND	10
75-15-0	Carbon Disulfide	ND	3
78-93-3	2-Butanone (MEK)	ND	20
591-10-6	2-Hexanone	ND	2
108-10-1	4-Methyl-2-Pentanone (MIBK)	ND	2
109-99-9	Tetrahydrofuran (THF)	ND	7
60-29-7	Ethyl Ether	ND	3
106-93-4	1,2-Dibromoethane (EDB)	ND	1
96-12-8	1,2-Dibromo-3-chloropropane	ND	1

QUALITY CONTROL		Percent	Confidence
Surrogate Compounds		Recoveries	Limits
2199-69-1	1,2-Dichlorobenzene-D4	98	60-123
2037-26-5	Toluene-D8	107	80-117
460-00-4	4-Bromofluorobenzene	130 ₁	65-118

ND=Not Detected above the reporting limit.
RL=Reporting Limit
J=Approximate
NA=Not available due to dilution or interference
B=analyte is associated with lab blank

MCL=Maximum Contaminant Level
MCLG=Maximum Contaminant Level Goal
E=estimated value exceeds the calibration range
L=estimated value is below the calibration range
z=quality control acceptance criteria as per lab

FACILITY SAMPLED: NUTMEG VALLEY

US ENVIRONMENTAL PROTECTION AGENCY

REGION I LABORATORY

GC/MS PURGEABLE ORGANIC ANALYSIS - DRINKING WATER

SAMPLE ID: WC85 REP
 FILE NAME(S): 07018E10
 DATE OF COLLECTION: 06/29/98
 DATE OF ANALYSIS: 07/01/98

DILUTION FACTOR(S): 1
 PRESERVATIVE: Cool to 4 C
 Acidified to pH <2

CAS No.	Compound	Conc. (ug/L)	Reporting Limits (ug/L)	MCL'S (ug/L)	QUALIFIER
REGULATED VOC'S					
75-01-4	Vinyl Chloride	ND	1	2	
75-35-4	1,1 Dichloroethylene	ND	1	7	
107-06-2	1,2 Dichloroethane	ND	1	5	
71-55-6	1,1,1 Trichloroethane	ND	1	200	
56-23-5	Carbon Tetrachloride	ND	1	5	
79-01-6	Trichloroethylene	ND	1	5	
71-43-2	Benzene	ND	1	5	
106-46-7	1,4, Dichlorobenzene	ND	1	75	
75-09-2	Methylene Chloride	ND	1	5	
156-59-2	c-1,2-Dichloroethylene	ND	1	70	
156-60-5	t-1,2-Dichloroethylene	ND	1	100	
78-87-5	1,2-Dichloropropane	ND	1	5	
79-00-5	1,1,2-Trichloroethane	ND	1	5	
127-18-4	Tetrachloroethylene	ND	1	5	
108-88-3	Toluene	ND	1	1000	
108-90-7	Chlorobenzene	ND	1	100	
100-41-4	Ethylbenzene	ND	1	700	
100-42-5	Styrene	ND	1	100	
95-50-1	1,2- Dichlorobenzene	ND	1	600	
1330-20-7	Total Xylenes	ND	2	10000	
120-82-1	1,2,4 Trichlorobenzene	ND	1	70	
TRIHALOMETHANES					
67-66-3	Chloroform	ND	1		
75-27-4	Dichlorobromomethane	ND	1		
124-48-1	Dibromochloromethane	ND	1		
75-25-2	Bromoform	ND	1		
-----	Total Trihalomethanes	ND	1	100	
UNREGULATED VOC'S				MCLG'S (ug/L)	
74-87-3	Chloromethane	ND	1		
74-83-9	Bromomethane	ND	1		
74-97-5	Bromochloromethane	ND	1		
75-00-3	Chloroethane	ND	1		
75-69-4	Trichlorofluoromethane	ND	1		
75-34-3	1,1-Dichloroethane	ND	1		
10061-02-6	t-1,3-Dichloropropene	ND	1		
10061-01-5	c-1,3-Dichloropropene	ND	1		
563-58-6	1,1-Dichloropropene	ND	1		

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - DRINKING WATER

SAMPLE ID:	WC85 REP UNREGULATED VOC'S	Conc. (ug/L)	Reporting Limits (ug/L)	MCLG's (ug/L)	QUALIFIER
108-86-1	Bromobenzene	ND	1		
79-34-5	1,1,2,2-Tetrachloroethane	ND	1		
630-20-6	1,1,1,2-Tetrachloroethane	ND	1		
103-65-1	n-Propyl Benzene	ND	1		
104-51-8	n-Butyl Benzene	ND	1		
135-98-8	sec-Butylbenzene	ND	1		
98-06-6	tert-Butylbenzene	ND	1		
541-73-1	1,3-Dichlorobenzene	ND	1		
74-95-3	Dibromomethane	ND	1		
75-71-8	Dichlorodifluoromethane	ND	1		
142-28-9	1,3-Dichloropropane	ND	1		
590-20-7	2,2-Dichloropropane	ND	1		
87-68-3	Hexachlorobutadiene	ND	1		
98-82-8	Isopropylbenzene	ND	1		
96-18-4	1,2,3-Trichloropropane	ND	1		
99-87-6	1,4 Isopropyl toluene (para)	ND	1		
91-20-3	Naphthalene	ND	1		
87-61-6	1,2,3 Trichlorobenzene	ND	1		
95-63-6	1,2,4 Trimethylbenzene	ND	1		
108-67-8	1,3,5 Trimethylbenzene	ND	1		
95-49-8	2-Chlorotoluene	ND	1		
106-43-4	4-Chlorotoluene	ND	1		

OTHER COMPOUNDS QUANTITATED

76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1
67-64-1	Acetone	ND	10
75-15-0	Carbon Disulfide	ND	3
78-93-3	2-Butanone (MEK)	ND	20
591-10-6	2-Hexanone	ND	2
108-10-1	4-Methyl-2-Pentanone (MIBK)	ND	2
109-99-9	Tetrahydrofuran (THF)	ND	7
60-29-7	Ethyl Ether	ND	3
106-93-4	1,2-Dibromoethane (EDB)	ND	1
96-12-8	1,2-Dibromo-3-chloropropane	ND	1

QUALITY CONTROL		Percent	Confidence
Surrogate Compounds		Recoveries	Limits
2199-69-1	1,2-Dichlorobenzene-D4	106	60-123
2037-26-5	Toluene-D8	112	80-117
460-00-4	4-Bromofluorobenzene	130 ₁	65-118

ND=Not Detected above the reporting limit.
RL=Reporting Limit
J=Approximate
NA=Not available due to dilution or interference
B=analyte is associated with lab blank

MCL=Maximum Contaminant Level
MCLG=Maximum Contaminant Level Goal
E=estimated value exceeds the calibration range
L=estimated value is below the calibration range
z=quality control acceptance criteria as per lab

FACILITY SAMPLED: NUTMEG VALLEY

US ENVIRONMENTAL PROTECTION AGENCY

REGION I LABORATORY

GC/MS PURGEABLE ORGANIC ANALYSIS - DRINKING WATER

SAMPLE ID: WC86
 FILE NAME(S): 07018E7
 DATE OF COLLECTION: 06/29/98
 DATE OF ANALYSIS: 07/01/98

DILUTION FACTOR(S): 1
 PRESERVATIVE: Cool to 4 C
 Acidified to pH <2

CAS No.	Compound	Conc. (ug/L)	Reporting Limits (ug/L)	MCL'S (ug/L)	QUALIFIER
REGULATED VOC'S					
75-01-4	Vinyl Chloride	ND	1	2	
75-35-4	1,1 Dichloroethylene	ND	1	7	
107-06-2	1,2 Dichloroethane	ND	1	5	
71-55-6	1,1,1 Trichloroethane	ND	1	200	
56-23-5	Carbon Tetrachloride	ND	1	5	
79-01-6	Trichloroethylene	ND	1	5	
71-43-2	Benzene	ND	1	5	
106-46-7	1,4, Dichlorobenzene	ND	1	75	
75-09-2	Methylene Chloride	ND	1	5	
156-59-2	c-1,2-Dichloroethylene	ND	1	70	
156-60-5	t-1,2-Dichloroethylene	ND	1	100	
78-87-5	1,2-Dichloropropane	ND	1	5	
79-00-5	1,1,2-Trichloroethane	ND	1	5	
127-18-4	Tetrachloroethylene	ND	1	5	
108-88-3	Toluene	ND	1	1000	
108-90-7	Chlorobenzene	ND	1	100	
100-41-4	Ethylbenzene	ND	1	700	
100-42-5	Styrene	ND	1	100	
95-50-1	1,2- Dichlorobenzene	ND	1	600	
1330-20-7	Total Xylenes	ND	2	10000	
120-82-1	1,2,4 Trichlorobenzene	ND	1	70	
TRIHALOMETHANES					
67-66-3	Chloroform	ND	1		
75-27-4	Dichlorobromomethane	ND	1		
124-48-1	Dibromochloromethane	ND	1		
75-25-2	Bromoform	ND	1		
----	Total Trihalomethanes	ND	1	100	
UNREGULATED VOC'S				MCLG'S (ug/L)	
74-87-3	Chloromethane	ND	1		
74-83-9	Bromomethane	ND	1		
74-97-5	Bromochloromethane	ND	1		
75-00-3	Chloroethane	ND	1		
75-69-4	Trichlorofluoromethane	ND	1		
75-34-3	1,1-Dichloroethane	ND	1		
10061-02-6	t-1,3-Dichloropropene	ND	1		
10061-01-5	c-1,3-Dichloropropene	ND	1		
563-58-6	1,1-Dichloropropene	ND	1		

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - DRINKING WATER

SAMPLE ID:	WC86	UNREGULATED VOC'S	Conc. (ug/L)	Reporting Limits (ug/L)	MCLG's (ug/L)	QUALIFIER
108-86-1		Bromobenzene	ND	1		
79-34-5		1,1,2,2-Tetrachloroethane	ND	1		
630-20-6		1,1,1,2-Tetrachloroethane	ND	1		
103-65-1		n-Propyl Benzene	ND	1		
104-51-8		n-Butyl Benzene	ND	1		
135-98-8		sec-Butylbenzene	ND	1		
98-06-6		tert-Butylbenzene	ND	1		
541-73-1		1,3-Dichlorobenzene	ND	1		
74-95-3		Dibromomethane	ND	1		
75-71-8		Dichlorodifluoromethane	ND	1		
142-28-9		1,3-Dichloropropane	ND	1		
590-20-7		2,2-Dichloropropane	ND	1		
87-68-3		Hexachlorobutadiene	ND	1		
98-82-8		Isopropylbenzene	ND	1		
96-18-4		1,2,3-Trichloropropane	ND	1		
99-87-6		1,4 Isopropyl toluene (para)	ND	1		
91-20-3		Naphthalene	ND	1		
87-61-6		1,2,3 Trichlorobenzene	ND	1		
95-63-6		1,2,4 Trimethylbenzene	ND	1		
108-67-8		1,3,5 Trimethylbenzene	ND	1		
95-49-8		2-Chlorotoluene	ND	1		
106-43-4		4-Chlorotoluene	ND	1		

OTHER COMPOUNDS QUANTITATED

76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1
67-64-1	Acetone	ND	10
75-15-0	Carbon Disulfide	ND	3
78-93-3	2-Butanone (MEK)	ND	20
591-10-6	2-Hexanone	ND	2
108-10-1	4-Methyl-2-Pentanone (MIBK)	ND	2
109-99-9	Tetrahydrofuran (THF)	ND	7
60-29-7	Ethyl Ether	ND	3
106-93-4	1,2-Dibromoethane (EDB)	ND	1
96-12-8	1,2-Dibromo-3-chloropropane	ND	1

QUALITY CONTROL	Percent	Confidence
Surrogate Compounds	Recoveries	Limits
2199-69-1 1,2-Dichlorobenzene-D4	98	60-123
2037-26-5 Toluene-D8	107	80-117
460-00-4 4-Bromofluorobenzene	116	65-118

ND=Not Detected above the reporting limit.
RL=Reporting Limit
J=Approximate
NA=Not available due to dilution or interference
B=analyte is associated with lab blank

MCL=Maximum Contaminant Level
MCLG=Maximum Contaminant Level Goal
E=estimated value exceeds the calibration range
L=estimated value is below the calibration range
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US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - DRINKING WATER

SAMPLE ID: WC86

TENTATIVELY IDENTIFIED COMPOUNDS

Thiirane
Isopropyl Alcohol

FACILITY SAMPLED: NUTMEG VALLEY

US ENVIRONMENTAL PROTECTION AGENCY

REGION I LABORATORY

GC/MS PURGEABLE ORGANIC ANALYSIS - DRINKING WATER

SAMPLE ID: WC90
 FILE NAME(S): 07018E12
 DATE OF COLLECTION: 06/25/98
 DATE OF ANALYSIS: 07/01/98

DILUTION FACTOR(S): 1
 PRESERVATIVE: Cool to 4 C
 Acidified to pH <2

CAS No.	Compound	Conc. (ug/L)	Reporting Limits (ug/L)	MCL'S (ug/L)	QUALIFIER
REGULATED VOC'S					
75-01-4	Vinyl Chloride	ND	1	2	
75-35-4	1,1 Dichloroethylene	ND	1	7	
107-06-2	1,2 Dichloroethane	ND	1	5	
71-55-6	1,1,1 Trichloroethane	ND	1	200	
56-23-5	Carbon Tetrachloride	ND	1	5	
79-01-6	Trichloroethylene	ND	1	5	
71-43-2	Benzene	ND	1	5	
106-46-7	1,4, Dichlorobenzene	ND	1	75	
75-09-2	Methylene Chloride	ND	1	5	
156-59-2	c-1,2-Dichloroethylene	ND	1	70	
156-60-5	t-1,2-Dichloroethylene	ND	1	100	
78-87-5	1,2-Dichloropropane	ND	1	5	
79-00-5	1,1,2-Trichloroethane	ND	1	5	
127-18-4	Tetrachloroethylene	ND	1	5	
108-88-3	Toluene	ND	1	1000	
108-90-7	Chlorobenzene	ND	1	100	
100-41-4	Ethylbenzene	ND	1	700	
100-42-5	Styrene	ND	1	100	
95-50-1	1,2- Dichlorobenzene	ND	1	600	
1330-20-7	Total Xylenes	ND	2	10000	
120-82-1	1,2,4 Trichlorobenzene	ND	1	70	
TRihalOMETHANES					
67-66-3	Chloroform	ND	1		
75-27-4	Dichlorobromomethane	ND	1		
124-48-1	Dibromochloromethane	ND	1		
75-25-2	Bromoform	ND	1		
-----	Total Trihalomethanes	ND	1	100	
UNREGULATED VOC'S				MCLG'S (ug/L)	
74-87-3	Chloromethane	ND	1		
74-83-9	Bromomethane	ND	1		
74-97-5	Bromochloromethane	ND	1		
75-00-3	Chloroethane	ND	1		
75-69-4	Trichlorofluoromethane	ND	1		
75-34-3	1,1-Dichloroethane	ND	1		
10061-02-6	t-1,3-Dichloropropene	ND	1		
10061-01-5	c-1,3-Dichloropropene	ND	1		
563-58-6	1,1-Dichloropropene	ND	1		

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - DRINKING WATER

SAMPLE ID:	WC90 UNREGULATED VOC'S	Conc. (ug/L)	Reporting Limits (ug/L)	MCLG's (ug/L)	QUALIFIER
108-86-1	Bromobenzene	ND	1		
79-34-5	1,1,2,2-Tetrachloroethane	ND	1		
630-20-6	1,1,1,2-Tetrachloroethane	ND	1		
103-65-1	n-Propyl Benzene	ND	1		
104-51-8	n-Butyl Benzene	ND	1		
135-98-8	sec-Butylbenzene	ND	1		
98-06-6	tert-Butylbenzene	ND	1		
541-73-1	1,3-Dichlorobenzene	ND	1		
74-95-3	Dibromomethane	ND	1		
75-71-8	Dichlorodifluoromethane	ND	1		
142-28-9	1,3-Dichloropropane	ND	1		
590-20-7	2,2-Dichloropropane	ND	1		
87-68-3	Hexachlorobutadiene	ND	1		
98-82-8	Isopropylbenzene	ND	1		
96-18-4	1,2,3-Trichloropropane	ND	1		
99-87-6	1,4 Isopropyl toluene (para)	ND	1		
91-20-3	Naphthalene	ND	1		
87-61-6	1,2,3 Trichlorobenzene	ND	1		
95-63-6	1,2,4 Trimethylbenzene	ND	1		
108-67-8	1,3,5 Trimethylbenzene	ND	1		
95-49-8	2-Chlorotoluene	ND	1		
106-43-4	4-Chlorotoluene	ND	1		

OTHER COMPOUNDS QUANTITATED

76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1
67-64-1	Acetone	ND	10
75-15-0	Carbon Disulfide	ND	3
78-93-3	2-Butanone (MEK)	ND	20
591-10-6	2-Hexanone	ND	2
108-10-1	4-Methyl-2-Pentanone (MIBK)	ND	2
109-99-9	Tetrahydrofuran (THF)	ND	7
60-29-7	Ethyl Ether	ND	3
106-93-4	1,2-Dibromoethane (EDB)	ND	1
96-12-8	1,2-Dibromo-3-chloropropane	ND	1

QUALITY CONTROL	Percent	Confidence
Surrogate Compounds	Recoveries	Limits
2199-69-1 1,2-Dichlorobenzene-D4	114	60-123
2037-26-5 Toluene-D8	112	80-117
460-00-4 4-Bromofluorobenzene	124 ₁	65-118

ND=Not Detected above the reporting limit.
RL=Reporting Limit
J=Approximate
NA=Not available due to dilution or interference
B=analyte is associated with lab blank

MCL=Maximum Contaminant Level
MCLG=Maximum Contaminant Level Goal
E=estimated value exceeds the calibration range
L=estimated value is below the calibration range
2=quality control acceptance criteria as per lab

FACILITY SAMPLED: NUTMEG VALLEY

US ENVIRONMENTAL PROTECTION AGENCY

REGION I LABORATORY

GC/MS PURGEABLE ORGANIC ANALYSIS - DRINKING WATER

SAMPLE ID: WC94
 FILE NAME(S): 07018E13
 DATE OF COLLECTION: 06/26/98
 DATE OF ANALYSIS: 07/01/98

DILUTION FACTOR(S): 1
 PRESERVATIVE: Cool to 4 C
 Acidified to pH <2

CAS No.	Compound	Conc. (ug/L)	Reporting Limits (ug/L)	MCL'S (ug/L)	QUALIFIER
REGULATED VOC'S					
75-01-4	Vinyl Chloride	ND	1	2	
75-35-4	1,1 Dichloroethylene	ND	1	7	
107-06-2	1,2 Dichloroethane	ND	1	5	
71-55-6	1,1,1 Trichloroethane	ND	1	200	
56-23-5	Carbon Tetrachloride	ND	1	5	
79-01-6	Trichloroethylene	ND	1	5	
71-43-2	Benzene	ND	1	5	
106-46-7	1,4, Dichlorobenzene	ND	1	75	
75-09-2	Methylene Chloride	ND	1	5	
156-59-2	c-1,2-Dichloroethylene	ND	1	70	
156-60-5	t-1,2-Dichloroethylene	ND	1	100	
78-87-5	1,2-Dichloropropane	ND	1	5	
79-00-5	1,1,2-Trichloroethane	ND	1	5	
127-18-4	Tetrachloroethylene	ND	1	5	
108-88-3	Toluene	ND	1	1000	
108-90-7	Chlorobenzene	ND	1	100	
100-41-4	Ethylbenzene	ND	1	700	
100-42-5	Styrene	ND	1	100	
95-50-1	1,2- Dichlorobenzene	ND	1	600	
1330-20-7	Total Xylenes	ND	2	10000	
120-82-1	1,2,4 Trichlorobenzene	ND	1	70	
TRIHALOMETHANES					
67-66-3	Chloroform	ND	1		
75-27-4	Dichlorobromomethane	ND	1		
124-48-1	Dibromochloromethane	ND	1		
75-25-2	Bromoform	ND	1		
-----	Total Trihalomethanes	ND	1	100	
UNREGULATED VOC'S				MCLG'S (ug/L)	
74-87-3	Chloromethane	ND	1		
74-83-9	Bromomethane	ND	1		
74-97-5	Bromochloromethane	ND	1		
75-00-3	Chloroethane	ND	1		
75-69-4	Trichlorofluoromethane	ND	1		
75-34-3	1,1-Dichloroethane	ND	1		
10061-02-6	t-1,3-Dichloropropene	ND	1		
10061-01-5	c-1,3-Dichloropropene	ND	1		
563-58-6	1,1-Dichloropropene	ND	1		

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - DRINKING WATER

SAMPLE ID:	WC94	UNREGULATED VOC'S	Conc. (ug/L)	Reporting Limits (ug/L)	MCLG's (ug/L)	QUALIFIER
108-86-1		Bromobenzene	ND	1		
79-34-5		1,1,2,2-Tetrachloroethane	ND	1		
630-20-6		1,1,1,2-Tetrachloroethane	ND	1		
103-65-1		n-Propyl Benzene	ND	1		
104-51-8		n-Butyl Benzene	ND	1		
135-98-8		sec-Butylbenzene	ND	1		
98-06-6		tert-Butylbenzene	ND	1		
541-73-1		1,3-Dichlorobenzene	ND	1		
74-95-3		Dibromomethane	ND	1		
75-71-8		Dichlorodifluoromethane	ND	1		
142-28-9		1,3-Dichloropropane	ND	1		
590-20-7		2,2-Dichloropropane	ND	1		
87-68-3		Hexachlorobutadiene	ND	1		
98-82-8		Isopropylbenzene	ND	1		
96-18-4		1,2,3-Trichloropropane	ND	1		
99-87-6		1,4 Isopropyl toluene (para)	ND	1		
91-20-3		Naphthalene	ND	1		
87-61-6		1,2,3 Trichlorobenzene	ND	1		
95-63-6		1,2,4 Trimethylbenzene	ND	1		
108-67-8		1,3,5 Trimethylbenzene	ND	1		
95-49-8		2-Chlorotoluene	ND	1		
106-43-4		4-Chlorotoluene	ND	1		

OTHER COMPOUNDS QUANTITATED

76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1
67-64-1	Acetone	ND	10
75-15-0	Carbon Disulfide	ND	3
78-93-3	2-Butanone (MEK)	ND	20
591-10-6	2-Hexanone	ND	2
108-10-1	4-Methyl-2-Pentanone (MIBK)	ND	2
109-99-9	Tetrahydrofuran (THF)	ND	7
60-29-7	Ethyl Ether	ND	3
106-93-4	1,2-Dibromoethane (EDB)	ND	1
96-12-8	1,2-Dibromo-3-chloropropane	ND	1

QUALITY CONTROL	Percent Recoveries	Confidence Limits
Surrogate Compounds		
2199-69-1 1,2-Dichlorobenzene-D4	115	60-123
2037-26-5 Toluene-D8	114	80-117
460-00-4 4-Bromofluorobenzene	125 ₁	65-118

ND=Not Detected above the reporting limit.
RL=Reporting Limit
J=Approximate
NA=Not available due to dilution or interference
B=analyte is associated with lab blank

MCL=Maximum Contaminant Level
MCLG=Maximum Contaminant Level Goal
E=estimated value exceeds the calibration range
L=estimated value is below the calibration range
z=quality control acceptance criteria as per lab

FACILITY SAMPLED: NUTMEG VALLEY

US ENVIRONMENTAL PROTECTION AGENCY

REGION I LABORATORY

GC/MS PURGEABLE ORGANIC ANALYSIS - DRINKING WATER

SAMPLE ID: WC100
 FILE NAME(S): 07018E14
 DATE OF COLLECTION: 06/25/98
 DATE OF ANALYSIS: 07/01/98

DILUTION FACTOR(S): 1
 PRESERVATIVE: Cool to 4 C
 Acidified to pH <2

CAS No.	Compound	Conc. (ug/L)	Reporting Limits (ug/L)	MCL'S (ug/L)	QUALIFIER
REGULATED VOC'S					
75-01-4	Vinyl Chloride	ND	1	2	
75-35-4	1,1 Dichloroethylene	ND	1	7	
107-06-2	1,2 Dichloroethane	ND	1	5	
71-55-6	1,1,1 Trichloroethane	ND	1	200	
56-23-5	Carbon Tetrachloride	ND	1	5	
79-01-6	Trichloroethylene	ND	1	5	
71-43-2	Benzene	ND	1	5	
106-46-7	1,4, Dichlorobenzene	ND	1	75	
75-09-2	Methylene Chloride	ND	1	5	
156-59-2	c-1,2-Dichloroethylene	ND	1	70	
156-60-5	t-1,2-Dichloroethylene	ND	1	100	
78-87-5	1,2-Dichloropropane	ND	1	5	
79-00-5	1,1,2-Trichloroethane	ND	1	5	
127-18-4	Tetrachloroethylene	ND	1	5	
108-88-3	Toluene	ND	1	1000	
108-90-7	Chlorobenzene	1	1	100	L
100-41-4	Ethylbenzene	ND	1	700	
100-42-5	Styrene	ND	1	100	
95-50-1	1,2- Dichlorobenzene	ND	1	600	
1330-20-7	Total Xylenes	ND	2	10000	
120-82-1	1,2,4 Trichlorobenzene	ND	1	70	
TRIHALOMETHANES					
67-66-3	Chloroform	ND	1		
75-27-4	Dichlorobromomethane	ND	1		
124-48-1	Dibromochloromethane	ND	1		
75-25-2	Bromoform	ND	1		
-----	Total Trihalomethanes	ND	1	100	
UNREGULATED VOC'S				MCLG'S (ug/L)	
74-87-3	Chloromethane	ND	1		
74-83-9	Bromomethane	ND	1		
74-97-5	Bromochloromethane	ND	1		
75-00-3	Chloroethane	ND	1		
75-69-4	Trichlorofluoromethane	ND	1		
75-34-3	1,1-Dichloroethane	ND	1		
10061-02-6	t-1,3-Dichloropropene	ND	1		
10061-01-5	c-1,3-Dichloropropene	ND	1		
563-58-6	1,1-Dichloropropene	ND	1		

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - DRINKING WATER

SAMPLE ID:	WC100		Reporting		
	UNREGULATED VOC'S	Conc.	Limits	MCLG's	QUALIFIER
		(ug/L)	(ug/L)	(ug/L)	
108-86-1	Bromobenzene	ND	1		
79-34-5	1,1,2,2-Tetrachloroethane	ND	1		
630-20-6	1,1,1,2-Tetrachloroethane	ND	1		
103-65-1	n-Propyl Benzene	ND	1		
104-51-8	n-Butyl Benzene	ND	1		
135-98-8	sec-Butylbenzene	ND	1		
98-06-6	tert-Butylbenzene	ND	1		
541-73-1	1,3-Dichlorobenzene	ND	1		
74-95-3	Dibromomethane	ND	1		
75-71-8	Dichlorodifluoromethane	ND	1		
142-28-9	1,3-Dichloropropane	ND	1		
590-20-7	2,2-Dichloropropane	ND	1		
87-68-3	Hexachlorobutadiene	ND	1		
98-82-8	Isopropylbenzene	ND	1		
96-18-4	1,2,3-Trichloropropane	ND	1		
99-87-6	1,4 Isopropyl toluene (para)	ND	1		
91-20-3	Naphthalene	ND	1		
87-61-6	1,2,3 Trichlorobenzene	ND	1		
95-63-6	1,2,4 Trimethylbenzene	ND	1		
108-67-8	1,3,5 Trimethylbenzene	ND	1		
95-49-8	2-Chlorotoluene	ND	1		
106-43-4	4-Chlorotoluene	ND	1		

OTHER COMPOUNDS QUANTITATED

76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1
67-64-1	Acetone	ND	10
75-15-0	Carbon Disulfide	ND	3
78-93-3	2-Butanone (MEK)	ND	20
591-10-6	2-Hexanone	ND	2
108-10-1	4-Methyl-2-Pentanone (MIBK)	ND	2
109-99-9	Tetrahydrofuran (THF)	ND	7
60-29-7	Ethyl Ether	8	3
106-93-4	1,2-Dibromoethane (EDB)	ND	1
96-12-8	1,2-Dibromo-3-chloropropane	ND	1

QUALITY CONTROL		Percent	Confidence
Surrogate Compounds		Recoveries	Limits
2199-69-1	1,2-Dichlorobenzene-D4	115	60-123
2037-26-5	Toluene-D8	116	80-117
460-00-4	4-Bromofluorobenzene	137 ₁	65-118

ND=Not Detected above the reporting limit.
RL=Reporting Limit
J=Approximate
NA=Not available due to dilution or interference
B=analyte is associated with lab blank

MCL=Maximum Contaminant Level
MCLG=Maximum Contaminant Level Goal
E=estimated value exceeds the calibration range
L=estimated value is below the calibration range
z=quality control acceptance criteria as per lab

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - DRINKING WATER

SAMPLE ID: WC100

TENTATIVELY IDENTIFIED COMPOUNDS

bis(1-methylethyl)-Benzene
1,3-bis(1-methylethyl)-Benzene

US ENVIRONMENTAL PROTECTION AGENCY

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REGION I LABORATORY

GC/MS PURGEABLE ORGANIC ANALYSIS - DRINKING WATER

SAMPLE ID: Trip Blank
 FILE NAME(S): 07018E6
 DATE OF COLLECTION: 06/25/98
 DATE OF ANALYSIS: 07/01/98

DILUTION FACTOR(S): 1
 PRESERVATIVE: Cool to 4 C
 Acidified to pH <2

CAS No.	Compound	Conc. (ug/L)	Reporting Limits (ug/L)	MCL'S (ug/L)	QUALIFIER
REGULATED VOC'S					
75-01-4	Vinyl Chloride	ND	1	2	
75-35-4	1,1 Dichloroethylene	ND	1	7	
107-06-2	1,2 Dichloroethane	ND	1	5	
71-55-6	1,1,1 Trichloroethane	ND	1	200	
56-23-5	Carbon Tetrachloride	ND	1	5	
79-01-6	Trichloroethylene	ND	1	5	
71-43-2	Benzene	ND	1	5	
106-46-7	1,4, Dichlorobenzene	ND	1	75	
75-09-2	Methylene Chloride	ND	1	5	
156-59-2	c-1,2-Dichloroethylene	ND	1	70	
156-60-5	t-1,2-Dichloroethylene	ND	1	100	
78-87-5	1,2-Dichloropropane	ND	1	5	
79-00-5	1,1,2-Trichloroethane	ND	1	5	
127-18-4	Tetrachloroethylene	ND	1	5	
108-88-3	Toluene	ND	1	1000	
108-90-7	Chlorobenzene	ND	1	100	
100-41-4	Ethylbenzene	ND	1	700	
100-42-5	Styrene	ND	1	100	
95-50-1	1,2- Dichlorobenzene	ND	1	600	
1330-20-7	Total Xylenes	ND	2	10000	
120-82-1	1,2,4 Trichlorobenzene	ND	1	70	
TRIHALOMETHANES					
67-66-3	Chloroform	ND	1		
75-27-4	Dichlorobromomethane	ND	1		
124-48-1	Dibromochloromethane	ND	1		
75-25-2	Bromoform	ND	1		
-----	Total Trihalomethanes	ND	1	100	
UNREGULATED VOC'S				MCLG'S (ug/L)	
74-87-3	Chloromethane	ND	1		
74-83-9	Bromomethane	ND	1		
74-97-5	Bromochloromethane	ND	1		
75-00-3	Chloroethane	ND	1		
75-69-4	Trichlorofluoromethane	ND	1		
75-34-3	1,1-Dichloroethane	ND	1		
10061-02-6	t-1,3-Dichloropropene	ND	1		
10061-01-5	c-1,3-Dichloropropene	ND	1		
563-58-6	1,1-Dichloropropene	ND	1		

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - DRINKING WATER

SAMPLE ID:	Trip Blank UNREGULATED VOC'S	Conc. (ug/L)	Reporting Limits (ug/L)	MCLG's (ug/L)	QUALIFIER
108-86-1	Bromobenzene	ND	1		
79-34-5	1,1,2,2-Tetrachloroethane	ND	1		
630-20-6	1,1,1,2-Tetrachloroethane	ND	1		
103-65-1	n-Propyl Benzene	ND	1		
104-51-8	n-Butyl Benzene	ND	1		
135-98-8	sec-Butylbenzene	ND	1		
98-06-6	tert-Butylbenzene	ND	1		
541-73-1	1,3-Dichlorobenzene	ND	1		
74-95-3	Dibromomethane	ND	1		
75-71-8	Dichlorodifluoromethane	ND	1		
142-28-9	1,3-Dichloropropane	ND	1		
590-20-7	2,2-Dichloropropane	ND	1		
87-68-3	Hexachlorobutadiene	ND	1		
98-82-8	Isopropylbenzene	ND	1		
96-18-4	1,2,3-Trichloropropane	ND	1		
99-87-6	1,4 Isopropyl toluene (para)	ND	1		
91-20-3	Naphthalene	ND	1		
87-61-6	1,2,3 Trichlorobenzene	ND	1		
95-63-6	1,2,4 Trimethylbenzene	ND	1		
108-67-8	1,3,5 Trimethylbenzene	ND	1		
95-49-8	2-Chlorotoluene	ND	1		
106-43-4	4-Chlorotoluene	ND	1		

OTHER COMPOUNDS QUANTITATED

76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1
67-64-1	Acetone	ND	10
75-15-0	Carbon Disulfide	ND	3
78-93-3	2-Butanone (MEK)	ND	20
591-10-6	2-Hexanone	ND	2
108-10-1	4-Methyl-2-Pentanone (MIBK)	ND	2
109-99-9	Tetrahydrofuran (THF)	ND	7
60-29-7	Ethyl Ether	ND	3
106-93-4	1,2-Dibromoethane (EDB)	ND	1
96-12-8	1,2-Dibromo-3-chloropropane	ND	1

QUALITY CONTROL	Percent	Confidence
Surrogate Compounds	Recoveries	Limits
2199-69-1 1,2-Dichlorobenzene-D4	93	60-123
2037-26-5 Toluene-D8	105	80-117
460-00-4 4-Bromofluorobenzene	110	65-118

ND=Not Detected above the reporting limit.
RL=Reporting Limit
J=Approximate
NA=Not available due to dilution or interference
B=analyte is associated with lab blank

MCL=Maximum Contaminant Level
MCLG=Maximum Contaminant Level Goal
E=estimated value exceeds the calibration range
L=estimated value is below the calibration range
z=quality control acceptance criteria as per lab

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - DRINKING WATER

SAMPLE ID: Trip Blank

TENTATIVELY IDENTIFIED COMPOUNDS

bis(1-methylethyl)-Benzene
1,3-bis(1-methylethyl)-Benzene