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

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

PROJECT NUMBER: 98453

DATES(S) SAMPLES RECEIVED BY THE LABORATORY: 06/24/98

SAMPLE NUMBERS: WC91, WC92, WC93, 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 WC93, was spiked in duplicate to determine laboratory precision and accuracy.

DATA FILE: j:\chemistry\reports\voa\98453dw.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: 06298E9 & 0629E10
 FILE NAME(S): 06298E9 & 06298E10
 DATE OF ANALYSIS: 06/29/98

ACCURACY

COMPOUND	AVERAGE % RECOVERY	ACCEPTABLE RANGE ₂
1,1 Dichloroethylene	104	50-150
Chloroform	102	62-128
1,2 Dichloroethane	106	57-141
1,1,1 Trichloroethane	112	51-142
Carbon tetrachloroide	98	60-139
Bromodichloromethane	95	44-133
Trichloroethylene	109	65-132
Benzene	107	67-132
Dibromochloromethane	80	36-125
Bromoform	67	25-118
1,4 Dichlorobenzene	86	55-102
Vinyl Chloride	115	44-170

PRECISION

COMPOUND	#1 % RECOV	#2 % RECOVERY	RPD	ACCEPTABLE RANGE ₂
1,1 Dichloroethylene	106	102	4	0-15
Chloroform	100	104	4	0-23
1,2 Dichloroethane	111	101	10	0-36
1,1,1 Trichloroethane	111	114	3	0-19
Carbon tetrachloride	98	98	0	0-17
Bromodichloromethane	104	97	17	0-33
Trichloroethylene	110	108	2	0-44
Benzene	103	111	8	0-24
Dibromochloromethane	82	79	4	0-41
Bromoform	68	66	3	0-65
1,4 Dichlorobenzene	86	86	0	0-25
Vinyl Chloride	115	115	0	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): 06298E4
 DATE OF ANALYSIS: 06/29/98

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	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	98	80-117
460-00-4	4-Bromofluorobenzene	114	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: WC91
 FILE NAME(S): 06298E6
 DATE OF COLLECTION: 06/22/98
 DATE OF ANALYSIS: 06/29/98

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:	WC91 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	102	60-123
2037-26-5	Toluene-D8	109	80-117
460-00-4	4-Bromofluorobenzene	109	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: WC92
 FILE NAME(S): 06298E7
 DATE OF COLLECTION: 06/22/98
 DATE OF ANALYSIS: 06/29/98

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:	WC92 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	101	60-123
2037-26-5 Toluene-D8	104	80-117
460-00-4 4-Bromofluorobenzene	114	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: WC92

TENTATIVELY IDENTIFIED COMPOUNDS

2-methoxy-2-methyl Propane

FACILITY SAMPLED: NUTMEG VALLEY

US ENVIRONMENTAL PROTECTION AGENCY

REGION I LABORATORY

GC/MS PURGEABLE ORGANIC ANALYSIS - DRINKING WATER

SAMPLE ID: WC93
 FILE NAME(S): 06298E8
 DATE OF COLLECTION: 06/22/98
 DATE OF ANALYSIS: 06/29/98

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:	WC93 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	100	60-123
2037-26-5	Toluene-D8	98	80-117
460-00-4	4-Bromofluorobenzene	109	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: Trip Blank
 FILE NAME(S): 06298E5
 DATE OF COLLECTION: 06/22/98
 DATE OF ANALYSIS: 06/29/98

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	88	60-123
2037-26-5	Toluene-D8	95	80-117
460-00-4	4-Bromofluorobenzene	101	65-118

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