

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive  
Westborough, Massachusetts 01581-1019  
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RECEIVED DEC - 3 1998

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

CERTIFICATE OF ANALYSIS

Client: ERM-New England

Laboratory Job Number: L9809293

Address: 399 Boylston Street  
6th Floor  
Boston, MA 02116

Invoice Number: 21000

Date Received: 20-NOV-98

Attn: Ryan Bagley

Date Reported: 01-DEC-98

Project Number: 143.45

Delivery Method: Client

Site: RAYTHEON

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ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L9809293-01	MW-33S	WAYLAND, MA
L9809293-02	MW-33M	WAYLAND, MA
L9809293-03	ERM-DUP 2	WAYLAND, MA
L9809293-04	TRIP BLANK	WAYLAND, MA

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Authorized by: \_\_\_\_\_

James R. Roth, PhD - Laboratory Manager

ALPHA ANALYTICAL LABORATORIES  
 CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9809293-01 Date Collected: 20-NOV-1998  
 MW-33S Date Received : 20-NOV-98  
 Sample Matrix: WATER Date Reported : 01-DEC-98  
 Condition of Sample: Satisfactory Field Prep: None  
 Number & Type of Containers: 2-40ml VOA

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	TD
Volatile Organics by GC/MS 8260				1	8260B	25-Nov	7T
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	1.5				
Chloroform	ND	ug/l	1.5				
Carbon tetrachloride	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	3.5				
Dibromochloromethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.5				
2-Chloroethylvinyl ether	ND	ug/l	10.				
Tetrachloroethene	ND	ug/l	1.5				
Chlorobenzene	ND	ug/l	3.5				
Trichlorofluoromethane	ND	ug/l	5.0				
1,2-Dichloroethane	ND	ug/l	1.5				
1,1,1-Trichloroethane	69.	ug/l	1.0				
Bromodichloromethane	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
1,1-Dichloropropene	ND	ug/l	25.				
Bromoform	ND	ug/l	1.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Benzene	ND	ug/l	1.0				
Toluene	ND	ug/l	1.5				
Ethylbenzene	ND	ug/l	1.0				
Chloromethane	ND	ug/l	10.				
Bromomethane	ND	ug/l	2.0				
Vinyl chloride	ND	ug/l	2.0				
Chloroethane	ND	ug/l	2.0				
1,1-Dichloroethene	2.1	ug/l	1.5				
trans-1,2-Dichloroethene	ND	ug/l	1.5				
Trichloroethene	210	ug/l	1.0				
1,2-Dichlorobenzene	ND	ug/l	10.				
1,3-Dichlorobenzene	ND	ug/l	10.				
1,4-Dichlorobenzene	ND	ug/l	10.				
Methyl tert butyl ether	ND	ug/l	10.				
p/m-Xylene	ND	ug/l	1.0				
o-Xylene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
Dibromomethane	ND	ug/l	10.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9809293-01  
MW-33S

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS 8260 continued				1	8260B	25-Nov	BT
1,4-Dichlorobutane	ND	ug/l	10.				
Iodomethane	ND	ug/l	10.				
1,2,3-Trichloropropane	ND	ug/l	10.				
Styrene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
Acetone	ND	ug/l	10.				
Carbon disulfide	ND	ug/l	10.				
2-Butanone	ND	ug/l	10.				
Vinyl acetate	ND	ug/l	10.				
4-Methyl-2-pentanone	ND	ug/l	10.				
2-Hexanone	ND	ug/l	10.				
Ethyl methacrylate	ND	ug/l	10.				
Acrolein	ND	ug/l	25.				
Acrylonitrile	ND	ug/l	10.				
Bromochloromethane	ND	ug/l	5.0				
Tetrahydrofuran	ND	ug/l	50.				
2,2-Dichloropropane	ND	ug/l	5.0				
1,2-Dibromoethane	ND	ug/l	5.0				
1,3-Dichloropropane	ND	ug/l	5.0				
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0				
Bromobenzene	ND	ug/l	5.0				
n-Butylbenzene	ND	ug/l	5.0				
sec-Butylbenzene	ND	ug/l	5.0				
tert-Butylbenzene	ND	ug/l	5.0				
o-Chlorotoluene	ND	ug/l	5.0				
p-Chlorotoluene	ND	ug/l	5.0				
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0				
Hexachlorobutadiene	ND	ug/l	5.0				
Isopropylbenzene	ND	ug/l	5.0				
p-Isopropyltoluene	ND	ug/l	5.0				
Naphthalene	ND	ug/l	5.0				
n-Propylbenzene	ND	ug/l	5.0				
1,2,3-Trichlorobenzene	ND	ug/l	5.0				
1,2,4-Trichlorobenzene	ND	ug/l	5.0				
1,3,5-Trimethylbenzene	ND	ug/l	5.0				
1,2,4-Trimethylbenzene	ND	ug/l	5.0				
trans-1,4-Dichloro-2-butene	ND	ug/l	5.0				
Ethyl ether	ND	ug/l	25.				
Surrogate Recovery							
1,2-Dichloroethane-d4	108.	%					
Toluene-d8	101.	%					
4-Bromofluorobenzene	98.0	%					
Dibromofluoromethane	103.	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
 CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9809293-02 Date Collected: 20-NOV-1998  
 MW-33M Date Received : 20-NOV-98  
 Sample Matrix: WATER Date Reported : 01-DEC-98  
 Condition of Sample: Satisfactory Field Prep: None  
 Number & Type of Containers: 2-40ml VOA

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES	
						PREP	ANALYSIS
Volatile Organics by GC/MS 8260				1	8260B		25-Nov
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	1.5				
Chloroform	ND	ug/l	1.5				
Carbon tetrachloride	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	3.5				
Dibromochloromethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.5				
2-Chloroethylvinyl ether	ND	ug/l	10.				
Tetrachloroethene	ND	ug/l	1.5				
Chlorobenzene	ND	ug/l	3.5				
Trichlorofluoromethane	ND	ug/l	5.0				
1,2-Dichloroethane	ND	ug/l	1.5				
1,1,1-Trichloroethane	ND	ug/l	1.0				
Bromodichloromethane	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
1,1-Dichloropropene	ND	ug/l	25.				
Bromoform	ND	ug/l	1.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Benzene	ND	ug/l	1.0				
Toluene	ND	ug/l	1.5				
Ethylbenzene	ND	ug/l	1.0				
Chloromethane	ND	ug/l	10.				
Bromomethane	ND	ug/l	2.0				
Vinyl chloride	ND	ug/l	2.0				
Chloroethane	ND	ug/l	2.0				
1,1-Dichloroethene	ND	ug/l	1.5				
trans-1,2-Dichloroethene	ND	ug/l	1.5				
Trichloroethene	ND	ug/l	2.0				
1,2-Dichlorobenzene	ND	ug/l	10.				
1,3-Dichlorobenzene	ND	ug/l	10.				
1,4-Dichlorobenzene	ND	ug/l	10.				
Methyl tert butyl ether	ND	ug/l	10.				
p/m-Xylene	ND	ug/l	1.0				
o-Xylene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
Dibromomethane	ND	ug/l	10.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9809293-02  
MW-33M

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS 8260 continued				1	8260B	25-Nov	BT
1,4-Dichlorobutane	ND	ug/l	10.				
Iodomethane	ND	ug/l	10.				
1,2,3-Trichloropropane	ND	ug/l	10.				
Styrene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
Acetone	ND	ug/l	10.				
Carbon disulfide	ND	ug/l	10.				
2-Butanone	ND	ug/l	10.				
Vinyl acetate	ND	ug/l	10.				
4-Methyl-2-pentanone	ND	ug/l	10.				
2-Hexanone	ND	ug/l	10.				
Ethyl methacrylate	ND	ug/l	10.				
Acrolein	ND	ug/l	25.				
Acrylonitrile	ND	ug/l	10.				
Bromochloromethane	ND	ug/l	5.0				
Tetrahydrofuran	ND	ug/l	50.				
2,2-Dichloropropane	ND	ug/l	5.0				
1,2-Dibromoethane	ND	ug/l	5.0				
1,3-Dichloropropane	ND	ug/l	5.0				
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0				
Bromobenzene	ND	ug/l	5.0				
n-Butylbenzene	ND	ug/l	5.0				
sec-Butylbenzene	ND	ug/l	5.0				
tert-Butylbenzene	ND	ug/l	5.0				
o-Chlorotoluene	ND	ug/l	5.0				
p-Chlorotoluene	ND	ug/l	5.0				
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0				
Hexachlorobutadiene	ND	ug/l	5.0				
Isopropylbenzene	ND	ug/l	5.0				
p-Isopropyltoluene	ND	ug/l	5.0				
Naphthalene	ND	ug/l	5.0				
n-Propylbenzene	ND	ug/l	5.0				
1,2,3-Trichlorobenzene	ND	ug/l	5.0				
1,2,4-Trichlorobenzene	ND	ug/l	5.0				
1,3,5-Trimethylbenzene	ND	ug/l	5.0				
1,2,4-Trimethylbenzene	ND	ug/l	5.0				
trans-1,4-Dichloro-2-butene	ND	ug/l	5.0				
Ethyl ether	ND	ug/l	25.				
Surrogate Recovery							
1,2-Dichloroethane-d4	107.	%					
Toluene-d8	101.	%					
4-Bromofluorobenzene	99.0	%					
Dibromofluoromethane	102.	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9809293-03  
ERM-DUP 2  
Sample Matrix: WATER

Date Collected: 20-NOV-1998  
Date Received : 20-NOV-98  
Date Reported : 01-DEC-98

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-40ml VOA

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES		ID	
						PREP	ANALYSIS		
Volatile Organics by GC/MS 8260						1	8260B	26-Nov	NT
Methylene chloride	ND	ug/l	5.0						
1,1-Dichloroethane	ND	ug/l	1.5						
Chloroform	ND	ug/l	1.5						
Carbon tetrachloride	ND	ug/l	1.0						
1,2-Dichloropropane	ND	ug/l	3.5						
Dibromochloromethane	ND	ug/l	1.0						
1,1,2-Trichloroethane	ND	ug/l	1.5						
2-Chloroethylvinyl ether	ND	ug/l	10.						
Tetrachloroethene	ND	ug/l	1.5						
Chlorobenzene	ND	ug/l	3.5						
Trichlorofluoromethane	ND	ug/l	5.0						
1,2-Dichloroethane	ND	ug/l	1.5						
1,1,1-Trichloroethane	71.	ug/l	1.0						
Bromodichloromethane	ND	ug/l	1.0						
trans-1,3-Dichloropropene	ND	ug/l	1.0						
cis-1,3-Dichloropropene	ND	ug/l	1.0						
1,1-Dichloropropene	ND	ug/l	25.						
Bromoform	ND	ug/l	1.0						
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0						
Benzene	ND	ug/l	1.0						
Toluene	ND	ug/l	1.5						
Ethylbenzene	ND	ug/l	1.0						
Chloromethane	ND	ug/l	10.						
Bromomethane	ND	ug/l	2.0						
Vinyl chloride	ND	ug/l	2.0						
Chloroethane	ND	ug/l	2.0						
1,1-Dichloroethene	2.0	ug/l	1.5						
trans-1,2-Dichloroethene	ND	ug/l	1.5						
Trichloroethene	220	ug/l	1.0						
1,2-Dichlorobenzene	ND	ug/l	10.						
1,3-Dichlorobenzene	ND	ug/l	10.						
1,4-Dichlorobenzene	ND	ug/l	10.						
Methyl tert butyl ether	ND	ug/l	10.						
p/m-Xylene	ND	ug/l	1.0						
o-Xylene	ND	ug/l	1.0						
cis-1,2-Dichloroethene	ND	ug/l	1.0						
Dibromomethane	ND	ug/l	10.						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9809293-03  
ERM-DUP 2

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS 8260 continued				1	8260B	26-Nov	BT
1,4-Dichlorobutane	ND	ug/l	10.				
Iodomethane	ND	ug/l	10.				
1,2,3-Trichloropropane	ND	ug/l	10.				
Styrene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
Acetone	ND	ug/l	10.				
Carbon disulfide	ND	ug/l	10.				
2-Butanone	ND	ug/l	10.				
Vinyl acetate	ND	ug/l	10.				
4-Methyl-2-pentanone	ND	ug/l	10.				
2-Hexanone	ND	ug/l	10.				
Ethyl methacrylate	ND	ug/l	10.				
Acrolein	ND	ug/l	25.				
Acrylonitrile	ND	ug/l	10.				
Bromochloromethane	ND	ug/l	5.0				
Tetrahydrofuran	ND	ug/l	50.				
2,2-Dichloropropane	ND	ug/l	5.0				
1,2-Dibromoethane	ND	ug/l	5.0				
1,3-Dichloropropane	ND	ug/l	5.0				
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0				
Bromobenzene	ND	ug/l	5.0				
n-Butylbenzene	ND	ug/l	5.0				
sec-Butylbenzene	ND	ug/l	5.0				
tert-Butylbenzene	ND	ug/l	5.0				
o-Chlorotoluene	ND	ug/l	5.0				
p-Chlorotoluene	ND	ug/l	5.0				
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0				
Hexachlorobutadiene	ND	ug/l	5.0				
Isopropylbenzene	ND	ug/l	5.0				
p-Isopropyltoluene	ND	ug/l	5.0				
Naphthalene	ND	ug/l	5.0				
n-Propylbenzene	ND	ug/l	5.0				
1,2,3-Trichlorobenzene	ND	ug/l	5.0				
1,2,4-Trichlorobenzene	ND	ug/l	5.0				
1,3,5-Trimethylbenzene	ND	ug/l	5.0				
1,2,4-Trimethylbenzene	ND	ug/l	5.0				
trans-1,4-Dichloro-2-butene	ND	ug/l	5.0				
Ethyl ether	ND	ug/l	25.				
Surrogate Recovery							
1,2-Dichloroethane-d4	108.	%					
Toluene-d8	101.	%					
4-Bromofluorobenzene	98.0	%					
Dibromofluoromethane	100.	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9809293-04 Date Collected: 13-NOV-1998  
 Sample Matrix: TRIP BLANK Date Received : 20-NOV-98  
 WATER Date Reported : 01-DEC-98  
 Condition of Sample: Satisfactory Field Prep: None  
 Number & Type of Containers: 1-40ml VOA

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES		TP
						PREP	ANALYSIS	
Volatile Organics by GC/MS 8260				1	8260B		24-Nov	TP
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	1.5					
Chloroform	ND	ug/l	1.5					
Carbon tetrachloride	ND	ug/l	1.0					
1,2-Dichloropropane	ND	ug/l	3.5					
Dibromochloromethane	ND	ug/l	1.0					
1,1,2-Trichloroethane	ND	ug/l	1.5					
2-Chloroethylvinyl ether	ND	ug/l	10.					
Tetrachloroethene	ND	ug/l	1.5					
Chlorobenzene	ND	ug/l	3.5					
Trichlorofluoromethane	ND	ug/l	5.0					
1,2-Dichloroethane	ND	ug/l	1.5					
1,1,1-Trichloroethane	ND	ug/l	1.0					
Bromodichloromethane	ND	ug/l	1.0					
trans-1,3-Dichloropropene	ND	ug/l	1.0					
cis-1,3-Dichloropropene	ND	ug/l	1.0					
1,1-Dichloropropene	ND	ug/l	25.					
Bromoform	ND	ug/l	1.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0					
Benzene	ND	ug/l	1.0					
Toluene	ND	ug/l	1.5					
Ethylbenzene	ND	ug/l	1.0					
Chloromethane	ND	ug/l	10.					
Bromomethane	ND	ug/l	2.0					
Vinyl chloride	ND	ug/l	2.0					
Chloroethane	ND	ug/l	2.0					
1,1-Dichloroethene	ND	ug/l	1.5					
trans-1,2-Dichloroethene	ND	ug/l	1.5					
Trichloroethene	ND	ug/l	1.0					
1,2-Dichlorobenzene	ND	ug/l	10.					
1,3-Dichlorobenzene	ND	ug/l	10.					
1,4-Dichlorobenzene	ND	ug/l	10.					
Methyl tert butyl ether	ND	ug/l	10.					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	1.0					
Dibromomethane	ND	ug/l	10.					

Comments: Complete list of References and Glossary of Terms found in Addendum I



ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9809293-04  
TRIP BLANK

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS 8260 continued				1	8260B	24-Nov	BT
1,4-Dichlorobutane	ND	ug/l	10.				
Iodomethane	ND	ug/l	10.				
1,2,3-Trichloropropane	ND	ug/l	10.				
Styrene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
Acetone	ND	ug/l	10.				
Carbon disulfide	ND	ug/l	10.				
2-Butanone	ND	ug/l	10.				
Vinyl acetate	ND	ug/l	10.				
4-Methyl-2-pentanone	ND	ug/l	10.				
2-Hexanone	ND	ug/l	10.				
Ethyl methacrylate	ND	ug/l	10.				
Acrolein	ND	ug/l	25.				
Acrylonitrile	ND	ug/l	10.				
Bromochloromethane	ND	ug/l	5.0				
Tetrahydrofuran	ND	ug/l	50.				
2,2-Dichloropropane	ND	ug/l	5.0				
1,2-Dibromoethane	ND	ug/l	5.0				
1,3-Dichloropropane	ND	ug/l	5.0				
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0				
Bromobenzene	ND	ug/l	5.0				
n-Butylbenzene	ND	ug/l	5.0				
sec-Butylbenzene	ND	ug/l	5.0				
tert-Butylbenzene	ND	ug/l	5.0				
o-Chlorotoluene	ND	ug/l	5.0				
p-Chlorotoluene	ND	ug/l	5.0				
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0				
Hexachlorobutadiene	ND	ug/l	5.0				
Isopropylbenzene	ND	ug/l	5.0				
p-Isopropyltoluene	ND	ug/l	5.0				
Naphthalene	ND	ug/l	5.0				
n-Propylbenzene	ND	ug/l	5.0				
1,2,3-Trichlorobenzene	ND	ug/l	5.0				
1,2,4-Trichlorobenzene	ND	ug/l	5.0				
1,3,5-Trimethylbenzene	ND	ug/l	5.0				
1,2,4-Trimethylbenzene	ND	ug/l	5.0				
trans-1,4-Dichloro-2-butene	ND	ug/l	5.0				
Ethyl ether	ND	ug/l	25.				
Surrogate Recovery							
1,2-Dichloroethane-d4	110.	%					
Toluene-d8	110.	%					
4-Bromofluorobenzene	110.	%					
Dibromofluoromethane	105.	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L9809293

Parameter	MS %	MSD %	RPD
Volatile Organics by GC/MS 8260 for sample(s) 01-04			
Chlorobenzene	102	102	0
Benzene	110	110	0
Toluene	120	110	9
1,1-Dichloroethene	120	110	9
Trichloroethene	120	120	0

ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L9809293

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Blank Analysis for sample(s) 01-03							
Volatile Organics by GC/MS 8260				1	8260B	25-Nov	BT
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	1.5				
Chloroform	ND	ug/l	1.5				
Carbon tetrachloride	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	3.5				
Dibromochloromethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.5				
2-Chloroethylvinyl ether	ND	ug/l	10.				
Tetrachloroethene	ND	ug/l	1.5				
Chlorobenzene	ND	ug/l	3.5				
Trichlorofluoromethane	ND	ug/l	5.0				
1,2-Dichloroethane	ND	ug/l	1.5				
1,1,1-Trichloroethane	ND	ug/l	1.0				
Bromodichloromethane	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
1,1-Dichloropropene	ND	ug/l	25.				
Bromoform	ND	ug/l	1.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Benzene	ND	ug/l	1.0				
Toluene	ND	ug/l	1.5				
Ethylbenzene	ND	ug/l	1.0				
Chloromethane	ND	ug/l	10.				
Bromomethane	ND	ug/l	2.0				
Vinyl chloride	ND	ug/l	2.0				
Chloroethane	ND	ug/l	2.0				
1,1-Dichloroethene	ND	ug/l	1.5				
trans-1,2-Dichloroethene	ND	ug/l	1.5				
Trichloroethene	ND	ug/l	1.0				
1,2-Dichlorobenzene	ND	ug/l	10.				
1,3-Dichlorobenzene	ND	ug/l	10.				
1,4-Dichlorobenzene	ND	ug/l	10.				
Methyl tert butyl ether	ND	ug/l	10.				
p/m-Xylene	ND	ug/l	1.0				
o-Xylene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
Dibromomethane	ND	ug/l	10.				
1,4-Dichlorobutane	ND	ug/l	10.				
Iodomethane	ND	ug/l	10.				
1,2,3-Trichloropropane	ND	ug/l	10.				
Styrene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
Acetone	ND	ug/l	10.				
Carbon disulfide	ND	ug/l	10.				
2-Butanone	ND	ug/l	10.				
Vinyl acetate	ND	ug/l	10.				

ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L9809293

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS
Blank Analysis for sample(s) 01-03						
Volatile Organics by GC/MS 8260 continued				1	8260B	25-Nov
4-Methyl-2-pentanone	ND	ug/l	10.			
2-Hexanone	ND	ug/l	10.			
Ethyl methacrylate	ND	ug/l	10.			
Acrolein	ND	ug/l	25.			
Acrylonitrile	ND	ug/l	10.			
Bromochloromethane	ND	ug/l	5.0			
Tetrahydrofuran	ND	ug/l	50.			
2,2-Dichloropropane	ND	ug/l	5.0			
1,2-Dibromoethane	ND	ug/l	5.0			
1,3-Dichloropropane	ND	ug/l	5.0			
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0			
Bromobenzene	ND	ug/l	5.0			
n-Butylbenzene	ND	ug/l	5.0			
sec-Butylbenzene	ND	ug/l	5.0			
tert-Butylbenzene	ND	ug/l	5.0			
o-Chlorotoluene	ND	ug/l	5.0			
p-Chlorotoluene	ND	ug/l	5.0			
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0			
Hexachlorobutadiene	ND	ug/l	5.0			
Isopropylbenzene	ND	ug/l	5.0			
p-Isopropyltoluene	ND	ug/l	5.0			
Naphthalene	ND	ug/l	5.0			
n-Propylbenzene	ND	ug/l	5.0			
1,2,3-Trichlorobenzene	ND	ug/l	5.0			
1,2,4-Trichlorobenzene	ND	ug/l	5.0			
1,3,5-Trimethylbenzene	ND	ug/l	5.0			
1,2,4-Trimethylbenzene	ND	ug/l	5.0			
trans-1,4-Dichloro-2-butene	ND	ug/l	5.0			
Ethyl ether	ND	ug/l	25.			
Surrogate Recovery						
1,2-Dichloroethane-d4	103.	%				
Toluene-d8	101.	%				
4-Bromofluorobenzene	99.0	%				
Dibromofluoromethane	101.	%				

**ALPHA ANALYTICAL LABORATORIES  
ADDENDUM I**

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**REFERENCES**

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Update III, 1997.

**GLOSSARY OF TERMS AND SYMBOLS**

REF Reference number in which test method may be found.

METHOD Method number by which analysis was performed.

ID Initials of the analyst.

**LIMITATION OF LIABILITIES**

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.



SDG# \_\_\_\_\_

COMPLETE   
INCOMPLETE

# Sample Chain of Custody

W.O.No.: 143.45		Project Name: RAYTHEON - WAYLAND MA.				Number of Containers		VOC by 8260						Remarks	
Sampler: RYAN BAGLEY															
ERM T.R. Number	Date	Time	COMP	GRAB	Sample Location										
	11/20/98	1125		X	MW-335	2V	2								STANDARD TURN PLEASE FAX RESULTS TO SAMPLER'S ATTN.
	↓	1105		↓	MW-33M	↓	↓								
	↓	1145		↓	ERM-DUP 2	↓	↓								

Sample Relinquished	Date	Time	Sample Received by:	Date	Time	Reason for Transfer
<i>[Signature]</i>	11/20/98	1200	<i>[Signature]</i>	11/20/98	1200	

COPIES: White & Yellow copies accompany sample shipment to laboratory. Yellow copy retained by laboratory. White copy to be returned to client for files. Pink copy retained by sampler. Gold copy extra copy as needed (warehouse).

RECEIVED AUG 0 6 1999

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive  
Westborough, Massachusetts 01581-1019  
(508) 898-9220

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

CERTIFICATE OF ANALYSIS

Client: ERM-New England	Laboratory Job Number: L9906046
Address: 399 Boylston Street 6th Floor Boston, MA 02116	Invoice Number: 28476
Attn: Ryan Bagley	Date Received: 29-JUL-99
Project Number: 143-48	Date Reported: 05-AUG-99
Site:	Delivery Method: Alpha

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L9906046-01	MW-41	RAYTHEON WAYLAND
L9906046-02	MW-32	RAYTHEON WAYLAND
L9906046-03	HA-101	RAYTHEON WAYLAND
L9906046-04	HA-102	RAYTHEON WAYLAND
L9906046-05	MW-10	RAYTHEON WAYLAND
L9906046-06	MW-45S	RAYTHEON WAYLAND
L9906046-07	MW-45M	RAYTHEON WAYLAND
L9906046-08	MW-47S	RAYTHEON WAYLAND
L9906046-09	MW-47M	RAYTHEON WAYLAND
L9906046-10	MW-47D	RAYTHEON WAYLAND
L9906046-11	ERM- DUP1	RAYTHEON WAYLAND
L9906046-12	MW-46S	RAYTHEON WAYLAND
L9906046-13	MW-46M	RAYTHEON WAYLAND
L9906046-14	HA-103	RAYTHEON WAYLAND
L9906046-15	MW-44S	RAYTHEON WAYLAND
L9906046-16	MW-44M	RAYTHEON WAYLAND
L9906046-17	MW-44D	RAYTHEON WAYLAND

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: 

James R. Roth, PhD - Laboratory Manager

ALPHA ANALYTICAL LABORATORIES

Laboratory Job Number: L9906046

Date Reported: 05-AUG-99

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ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L9906046-18	MW-33S	RAYTHEON WAYLAND
L9906046-19	MW-33M	RAYTHEON WAYLAND
L9906046-20	MW-37M	RAYTHEON WAYLAND
L9906046-21	MW-37	RAYTHEON WAYLAND
L9906046-22	MW-43S	RAYTHEON WAYLAND
L9906046-23	MW-42S	RAYTHEON WAYLAND
L9906046-24	MW-38	RAYTHEON WAYLAND
L9906046-25	MW-40	RAYTHEON WAYLAND
L9906046-26	MW-40S	RAYTHEON WAYLAND
L9906046-27	MW-34	RAYTHEON WAYLAND
L9906046-28	MW-TP3	RAYTHEON WAYLAND
L9906046-29	ERM-DUP3	RAYTHEON WAYLAND
L9906046-30	TRIP BLANK 1	RAYTHEON WAYLAND
L9906046-31	ERM-DUP2	RAYTHEON WAYLAND
L9906046-32	TRIP BLANK 2	RAYTHEON WAYLAND



ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9906046-01  
 Date Collected: 28-JUL-1999  
 MW-41  
 Date Received : 29-JUL-1999  
 Sample Matrix: WATER  
 Date Reported : 05-AUG-99  
 Condition of Sample: Satisfactory  
 Field Prep: None  
 Number & Type of Containers: 2-40ml VOA

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC 8021				1	8021B	02-Aug	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	ND	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethylvinyl ether	ND	ug/l	10.				
Surrogate Recovery							
4-Bromochlorobenzene	105.	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9906046-02 Date Collected: 28-JUL-1999  
 MW-32 Date Received : 29-JUL-1999  
 Sample Matrix: WATER Date Reported : 05-AUG-99  
 Condition of Sample: Satisfactory Field Prep: None  
 Number & Type of Containers: 2-40ml VOA

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS
Volatile Organics by GC 8021				1	8021B	02-Aug
Bromodichloromethane	ND	ug/l	1.0			
Bromoform	ND	ug/l	1.0			
Carbon tetrachloride	ND	ug/l	1.0			
Chlorobenzene	ND	ug/l	1.0			
Dibromochloromethane	ND	ug/l	10.			
Bromomethane/Chloroethane	ND	ug/l	10.			
Chloroform	ND	ug/l	1.0			
Chloromethane/Vinyl chloride	ND	ug/l	10.			
1,2-Dichlorobenzene	ND	ug/l	1.0			
1,3-Dichlorobenzene	ND	ug/l	1.0			
1,4-Dichlorobenzene	ND	ug/l	1.0			
Dichlorodifluoromethane	ND	ug/l	10.			
1,1-Dichloroethane	ND	ug/l	1.0			
1,2-Dichloroethane	ND	ug/l	1.0			
1,1-Dichloroethene	ND	ug/l	1.0			
cis-1,2-Dichloroethene	ND	ug/l	1.0			
trans-1,2-Dichloroethene	ND	ug/l	1.0			
1,2-Dichloropropane	ND	ug/l	1.0			
cis-1,3-Dichloropropene	ND	ug/l	1.0			
trans-1,3-Dichloropropene	ND	ug/l	1.0			
Methylene chloride	ND	ug/l	10.			
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0			
Tetrachloroethene	ND	ug/l	1.0			
1,1,1-Trichloroethane	ND	ug/l	1.0			
1,1,2-Trichloroethane	ND	ug/l	1.0			
Trichloroethene	ND	ug/l	1.0			
Trichlorofluoromethane	ND	ug/l	1.0			
2-Chloroethylvinyl ether	ND	ug/l	10.			
Surrogate Recovery						
4-Bromochlorobenzene	87.0	%				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9906046-03  
 Date Collected: 28-JUL-1999  
 HA-101  
 Date Received : 29-JUL-1999  
 Sample Matrix: WATER  
 Date Reported : 05-AUG-99  
 Condition of Sample: Satisfactory  
 Field Prep: None  
 Number & Type of Containers: 2-40ml VOA

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC 8021				1	8021B	02-Aug	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	ND	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethylvinyl ether	ND	ug/l	10.				
Surrogate Recovery							
4-Bromochlorobenzene	88.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9906046-04

Date Collected: 28-JUL-1999

HA-102

Date Received : 29-JUL-1999

Sample Matrix: WATER

Date Reported : 05-AUG-99

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-40ml VOA

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	TT
Volatile Organics by GC 8021				1	8021B	02-Aug	TT
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	4.4	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	13.	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethylvinyl ether	ND	ug/l	10.				
Surrogate Recovery							
4-Bromochlorobenzene	92.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9906046-05 Date Collected: 28-JUL-1999  
 MW-10 Date Received : 29-JUL-1999  
 Sample Matrix: WATER Date Reported : 05-AUG-99  
 Condition of Sample: Satisfactory Field Prep: None  
 Number & Type of Containers: 2-40ml VOA

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC 8021				1	8021B	02-Aug	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	ND	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethylvinyl ether	ND	ug/l	10.				
Surrogate Recovery							
4-Bromochlorobenzene	92.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
 CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9906046-06 Date Collected: 28-JUL-1999  
 MW-45S Date Received : 29-JUL-1999  
 Sample Matrix: WATER Date Reported : 05-AUG-99  
 Condition of Sample: Satisfactory Field Prep: None  
 Number & Type of Containers: 2-40ml VOA

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS
Volatile Organics by GC 8021				1	8021B	02-Aug
Bromodichloromethane	ND	ug/l	1.0			
Bromoform	ND	ug/l	1.0			
Carbon tetrachloride	ND	ug/l	1.0			
Chlorobenzene	ND	ug/l	1.0			
Dibromochloromethane	ND	ug/l	10.			
Bromomethane/Chloroethane	ND	ug/l	10.			
Chloroform	ND	ug/l	1.0			
Chloromethane/Vinyl chloride	ND	ug/l	10.			
1,2-Dichlorobenzene	ND	ug/l	1.0			
1,3-Dichlorobenzene	ND	ug/l	1.0			
1,4-Dichlorobenzene	ND	ug/l	1.0			
Dichlorodifluoromethane	ND	ug/l	10.			
1,1-Dichloroethane	ND	ug/l	1.0			
1,2-Dichloroethane	ND	ug/l	1.0			
1,1-Dichloroethene	ND	ug/l	1.0			
cis-1,2-Dichloroethene	ND	ug/l	1.0			
trans-1,2-Dichloroethene	ND	ug/l	1.0			
1,2-Dichloropropane	ND	ug/l	1.0			
cis-1,3-Dichloropropene	ND	ug/l	1.0			
trans-1,3-Dichloropropene	ND	ug/l	1.0			
Methylene chloride	ND	ug/l	10.			
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0			
Tetrachloroethene	1.5	ug/l	1.0			
1,1,1-Trichloroethane	ND	ug/l	1.0			
1,1,2-Trichloroethane	ND	ug/l	1.0			
Trichloroethene	8.4	ug/l	1.0			
Trichlorofluoromethane	ND	ug/l	1.0			
2-Chloroethylvinyl ether	ND	ug/l	10.			

Surrogate Recovery

4-Bromochlorobenzene 102. %

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9906046-07

Date Collected: 28-JUL-1999

MW-45M

Date Received : 29-JUL-1999

Sample Matrix:

WATER

Date Reported : 05-AUG-99

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-40ml VOA

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC 8021				1	8021B	02-Aug	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	1.2	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	8.6	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	32.	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	130	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethylvinyl ether	ND	ug/l	10.				
Surrogate Recovery							
4-Bromochlorobenzene	108.	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9906046-08

Date Collected: 28-JUL-1999

MW-47S

Date Received : 29-JUL-1999

Sample Matrix:

WATER

Date Reported : 05-AUG-99

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-40ml VOA

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES	
						PREP	ANALYSIS
Volatile Organics by GC 8021				1	8021B		02-Aug
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	ND	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethylvinyl ether	ND	ug/l	10.				

Surrogate Recovery

4-Bromochlorobenzene 85.0 %

Comments: Complete list of References and Glossary of Terms found in Addendum I



ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9906046-09 Date Collected: 28-JUL-1999  
 MW-47M Date Received : 29-JUL-1999  
 Sample Matrix: WATER Date Reported : 05-AUG-99  
 Condition of Sample: Satisfactory Field Prep: None  
 Number & Type of Containers: 2-40ml VOA

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC 8021				1	8021B	02-Aug	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	9.6	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	160	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethylvinyl ether	ND	ug/l	10.				
Surrogate Recovery							
4-Bromochlorobenzene	99.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9906046-10

Date Collected: 28-JUL-1999

MW-47D

Date Received : 29-JUL-1999

Sample Matrix:

WATER

Date Reported : 05-AUG-99

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-40ml VOA

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS
<b>Volatile Organics by GC 8021</b>						
				1	8021B	03-Aug
Bromodichloromethane	ND	ug/l	1.0			
Bromoform	ND	ug/l	1.0			
Carbon tetrachloride	ND	ug/l	1.0			
Chlorobenzene	ND	ug/l	1.0			
Dibromochloromethane	ND	ug/l	10.			
Bromomethane/Chloroethane	ND	ug/l	10.			
Chloroform	ND	ug/l	1.0			
Chloromethane/Vinyl chloride	ND	ug/l	10.			
1,2-Dichlorobenzene	ND	ug/l	1.0			
1,3-Dichlorobenzene	ND	ug/l	1.0			
1,4-Dichlorobenzene	ND	ug/l	1.0			
Dichlorodifluoromethane	ND	ug/l	10.			
1,1-Dichloroethane	ND	ug/l	1.0			
1,2-Dichloroethane	ND	ug/l	1.0			
1,1-Dichloroethene	ND	ug/l	1.0			
cis-1,2-Dichloroethene	ND	ug/l	1.0			
trans-1,2-Dichloroethene	ND	ug/l	1.0			
1,2-Dichloropropane	ND	ug/l	1.0			
cis-1,3-Dichloropropene	ND	ug/l	1.0			
trans-1,3-Dichloropropene	ND	ug/l	1.0			
Methylene chloride	ND	ug/l	10.			
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0			
Tetrachloroethene	ND	ug/l	1.0			
1,1,1-Trichloroethane	ND	ug/l	1.0			
1,1,2-Trichloroethane	ND	ug/l	1.0			
Trichloroethene	5.6	ug/l	1.0			
Trichlorofluoromethane	ND	ug/l	1.0			
2-Chloroethylvinyl ether	ND	ug/l	10.			

Surrogate Recovery

4-Bromochlorobenzene 92.0 %

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9906046-11

Date Collected: 28-JUL-1999

ERM- DUP1

Date Received : 29-JUL-1999

Sample Matrix: WATER

Date Reported : 05-AUG-99

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-40ml VOA

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC 8021				1	8021B	03-Aug	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	2.9	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethylvinyl ether	ND	ug/l	10.				
Surrogate Recovery							
4-Bromochlorobenzene	80.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9906046-12 Date Collected: 29-JUL-1999  
 MW-46S Date Received : 29-JUL-1999  
 Sample Matrix: WATER Date Reported : 05-AUG-99  
 Condition of Sample: Satisfactory Field Prep: None  
 Number & Type of Containers: 2-40ml VOA

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES	
						PREP	ANALYSIS
Volatile Organics by GC 8021				1	8021B		03-Aug
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	ND	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethylvinyl ether	ND	ug/l	10.				

Surrogate Recovery

4-Bromochlorobenzene 101. %

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
 CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9906046-13

Date Collected: 29-JUL-1999

MW-46M

Date Received : 29-JUL-1999

Sample Matrix:

WATER

Date Reported : 05-AUG-99

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-40ml VOA

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC 8021				1	8021B	03-Aug	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	2.1	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	9.0	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethylvinyl ether	ND	ug/l	10.				
Surrogate Recovery							
4-Bromochlorobenzene	105.	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9906046-14  
HA-103  
Sample Matrix: WATER

Date Collected: 29-JUL-1999  
Date Received : 29-JUL-1999  
Date Reported : 05-AUG-99

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-40ml VOA

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS
Volatile Organics by GC 8021				1	8021B	03-Aug
Bromodichloromethane	ND	ug/l	1.0			
Bromoform	ND	ug/l	1.0			
Carbon tetrachloride	ND	ug/l	1.0			
Chlorobenzene	ND	ug/l	1.0			
Dibromochloromethane	ND	ug/l	10.			
Bromomethane/Chloroethane	ND	ug/l	10.			
Chloroform	ND	ug/l	1.0			
Chloromethane/Vinyl chloride	ND	ug/l	10.			
1,2-Dichlorobenzene	ND	ug/l	1.0			
1,3-Dichlorobenzene	ND	ug/l	1.0			
1,4-Dichlorobenzene	ND	ug/l	1.0			
Dichlorodifluoromethane	ND	ug/l	10.			
1,1-Dichloroethane	ND	ug/l	1.0			
1,2-Dichloroethane	ND	ug/l	1.0			
1,1-Dichloroethene	ND	ug/l	1.0			
cis-1,2-Dichloroethene	ND	ug/l	1.0			
trans-1,2-Dichloroethene	ND	ug/l	1.0			
1,2-Dichloropropane	ND	ug/l	1.0			
cis-1,3-Dichloropropene	ND	ug/l	1.0			
trans-1,3-Dichloropropene	ND	ug/l	1.0			
Methylene chloride	ND	ug/l	10.			
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0			
Tetrachloroethene	ND	ug/l	1.0			
1,1,1-Trichloroethane	ND	ug/l	1.0			
1,1,2-Trichloroethane	ND	ug/l	1.0			
Trichloroethene	ND	ug/l	1.0			
Trichlorofluoromethane	ND	ug/l	1.0			
2-Chloroethylvinyl ether	ND	ug/l	10.			

Surrogate Recovery

4-Bromochlorobenzene 98.0 %

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9906046-15 Date Collected: 29-JUL-1999  
 MW-44S Date Received : 29-JUL-1999  
 Sample Matrix: WATER Date Reported : 05-AUG-99  
 Condition of Sample: Satisfactory Field Prep: None  
 Number & Type of Containers: 2-40ml VOA

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC 8021				1	8021B	03-Aug	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	ND	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethylvinyl ether	ND	ug/l	10.				

Surrogate Recovery

4-Bromochlorobenzene 91.0 %

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
 CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9906046-16

Date Collected: 29-JUL-1999

MW-44M

Date Received : 29-JUL-1999

Sample Matrix:

WATER

Date Reported : 05-AUG-99

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-40ml VOA

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS
Volatile Organics by GC 8021				1	8021B	04-Aug
Bromodichloromethane	ND	ug/l	1.0			
Bromoform	ND	ug/l	1.0			
Carbon tetrachloride	ND	ug/l	1.0			
Chlorobenzene	ND	ug/l	1.0			
Dibromochloromethane	ND	ug/l	10.			
Bromomethane/Chloroethane	ND	ug/l	10.			
Chloroform	ND	ug/l	1.0			
Chloromethane/Vinyl chloride	ND	ug/l	10.			
1,2-Dichlorobenzene	ND	ug/l	1.0			
1,3-Dichlorobenzene	ND	ug/l	1.0			
1,4-Dichlorobenzene	ND	ug/l	1.0			
Dichlorodifluoromethane	ND	ug/l	10.			
1,1-Dichloroethane	ND	ug/l	1.0			
1,2-Dichloroethane	ND	ug/l	1.0			
1,1-Dichloroethene	ND	ug/l	1.0			
cis-1,2-Dichloroethene	ND	ug/l	1.0			
trans-1,2-Dichloroethene	ND	ug/l	1.0			
1,2-Dichloropropane	ND	ug/l	1.0			
cis-1,3-Dichloropropene	ND	ug/l	1.0			
trans-1,3-Dichloropropene	ND	ug/l	1.0			
Methylene chloride	ND	ug/l	10.			
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0			
Tetrachloroethene	ND	ug/l	1.0			
1,1,1-Trichloroethane	ND	ug/l	1.0			
1,1,2-Trichloroethane	ND	ug/l	1.0			
Trichloroethene	ND	ug/l	1.0			
Trichlorofluoromethane	ND	ug/l	1.0			
2-Chloroethylvinyl ether	ND	ug/l	10.			

Surrogate Recovery

4-Bromochlorobenzene 84.0 %

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9906046-17 Date Collected: 29-JUL-1999  
 MW-44D Date Received : 29-JUL-1999  
 Sample Matrix: WATER Date Reported : 05-AUG-99  
 Condition of Sample: Satisfactory Field Prep: None  
 Number & Type of Containers: 2-40ml VOA

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC 8021				1	8021B	04-Aug	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	ND	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethylvinyl ether	ND	ug/l	10.				
Surrogate Recovery							
4-Bromochlorobenzene	83.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9906046-18

Date Collected: 29-JUL-1999

MW-33S

Date Received : 29-JUL-1999

Sample Matrix:

WATER

Date Reported : 05-AUG-99

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-40ml VOA

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES	
						PREP	ANALYSIS
Volatile Organics by GC 8021				1	8021B		04-Aug
Bromodichloromethane	ND	ug/l	2.5				
Bromoform	ND	ug/l	2.5				
Carbon tetrachloride	ND	ug/l	2.5				
Chlorobenzene	ND	ug/l	2.5				
Dibromochloromethane	ND	ug/l	25.				
Bromomethane/Chloroethane	ND	ug/l	25.				
Chloroform	ND	ug/l	2.5				
Chloromethane/Vinyl chloride	ND	ug/l	25.				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Dichlorodifluoromethane	ND	ug/l	25.				
1,1-Dichloroethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	2.5				
1,1-Dichloroethene	ND	ug/l	2.5				
cis-1,2-Dichloroethene	ND	ug/l	2.5				
trans-1,2-Dichloroethene	ND	ug/l	2.5				
1,2-Dichloropropane	ND	ug/l	2.5				
cis-1,3-Dichloropropene	ND	ug/l	2.5				
trans-1,3-Dichloropropene	ND	ug/l	2.5				
Methylene chloride	ND	ug/l	25.				
1,1,2,2-Tetrachloroethane	ND	ug/l	2.5				
Tetrachloroethene	ND	ug/l	2.5				
1,1,1-Trichloroethane	80.	ug/l	2.5				
1,1,2-Trichloroethane	ND	ug/l	2.5				
Trichloroethene	240	ug/l	2.5				
Trichlorofluoromethane	ND	ug/l	2.5				
2-Chloroethylvinyl ether	ND	ug/l	25.				

Surrogate Recovery

4-Bromochlorobenzene 83.0 %

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9906046-19 Date Collected: 29-JUL-1999  
 MW-33M Date Received : 29-JUL-1999  
 Sample Matrix: WATER Date Reported : 05-AUG-99  
 Condition of Sample: Satisfactory Field Prep: None  
 Number & Type of Containers: 2-40ml VOA

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC 8021				1	8021B	04-Aug	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	ND	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethylvinyl ether	ND	ug/l	10.				
Surrogate Recovery							
4-Bromochlorobenzene	104.	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9906046-20

Date Collected: 29-JUL-1999

MW-37M

Date Received : 29-JUL-1999

Sample Matrix:

WATER

Date Reported : 05-AUG-99

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-40ml VOA

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES	
						PREP	ANALYSIS
Volatile Organics by GC 8021				1	8021B	04-Aug	r
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	ND	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethylvinyl ether	ND	ug/l	10.				

Surrogate Recovery

4-Bromochlorobenzene 85.0 %

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9906046-21

Date Collected: 29-JUL-1999

MW-37

Date Received : 29-JUL-1999

Sample Matrix:

WATER

Date Reported : 05-AUG-99

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-40ml VOA

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC 8021				1	8021B	04-Aug	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	1.4	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	6.8	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethylvinyl ether	ND	ug/l	10.				
Surrogate Recovery							
4-Bromochlorobenzene	93.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9906046-22

Date Collected: 29-JUL-1999

MW-43S

Date Received : 29-JUL-1999

Sample Matrix:

WATER

Date Reported : 05-AUG-99

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-40ml VOA

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS
Volatile Organics by GC 8021				1	8021B	04-Aug
Bromodichloromethane	ND	ug/l	2.5			
Bromoform	ND	ug/l	2.5			
Carbon tetrachloride	ND	ug/l	2.5			
Chlorobenzene	ND	ug/l	2.5			
Dibromochloromethane	ND	ug/l	25.			
Bromomethane/Chloroethane	ND	ug/l	25.			
Chloroform	ND	ug/l	2.5			
Chloromethane/Vinyl chloride	ND	ug/l	25.			
1,2-Dichlorobenzene	ND	ug/l	2.5			
1,3-Dichlorobenzene	ND	ug/l	2.5			
1,4-Dichlorobenzene	ND	ug/l	2.5			
Dichlorodifluoromethane	ND	ug/l	25.			
1,1-Dichloroethane	ND	ug/l	2.5			
1,2-Dichloroethane	ND	ug/l	2.5			
1,1-Dichloroethene	ND	ug/l	2.5			
cis-1,2-Dichloroethene	ND	ug/l	2.5			
trans-1,2-Dichloroethene	ND	ug/l	2.5			
1,2-Dichloropropane	ND	ug/l	2.5			
cis-1,3-Dichloropropene	ND	ug/l	2.5			
trans-1,3-Dichloropropene	ND	ug/l	2.5			
Methylene chloride	ND	ug/l	25.			
1,1,2,2-Tetrachloroethane	ND	ug/l	2.5			
Tetrachloroethene	ND	ug/l	2.5			
1,1,1-Trichloroethane	ND	ug/l	2.5			
1,1,2-Trichloroethane	ND	ug/l	2.5			
Trichloroethene	280	ug/l	2.5			
Trichlorofluoromethane	ND	ug/l	2.5			
2-Chloroethylvinyl ether	ND	ug/l	25.			

Surrogate Recovery

4-Bromochlorobenzene 116. %

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9906046-23  
 Date Collected: 29-JUL-1999  
 MW-42S  
 Date Received : 29-JUL-1999  
 Sample Matrix: WATER  
 Date Reported : 05-AUG-99  
 Condition of Sample: Satisfactory  
 Field Prep: None  
 Number & Type of Containers: 2-40ml VOA

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC 8021				1	8021B	04-Aug	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	2.9	ug/l	1.0				
Trichlorofluoromethane	5.8	ug/l	1.0				
2-Chloroethylvinyl ether	ND	ug/l	10.				
Surrogate Recovery							
4-Bromochlorobenzene	85.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
 CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9906046-24

Date Collected: 29-JUL-1999

MW-38

Date Received : 29-JUL-1999

Sample Matrix:

WATER

Date Reported : 05-AUG-99

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-40ml VOA

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS
Volatile Organics by GC 8021				1	8021B	04-Aug
Bromodichloromethane	ND	ug/l	1.0			
Bromoform	ND	ug/l	1.0			
Carbon tetrachloride	ND	ug/l	1.0			
Chlorobenzene	ND	ug/l	1.0			
Dibromochloromethane	ND	ug/l	10.			
Bromomethane/Chloroethane	ND	ug/l	10.			
Chloroform	ND	ug/l	1.0			
Chloromethane/Vinyl chloride	ND	ug/l	10.			
1,2-Dichlorobenzene	ND	ug/l	1.0			
1,3-Dichlorobenzene	ND	ug/l	1.0			
1,4-Dichlorobenzene	ND	ug/l	1.0			
Dichlorodifluoromethane	ND	ug/l	10.			
1,1-Dichloroethane	ND	ug/l	1.0			
1,2-Dichloroethane	ND	ug/l	1.0			
1,1-Dichloroethene	ND	ug/l	1.0			
cis-1,2-Dichloroethene	ND	ug/l	1.0			
trans-1,2-Dichloroethene	ND	ug/l	1.0			
1,2-Dichloropropane	ND	ug/l	1.0			
cis-1,3-Dichloropropene	ND	ug/l	1.0			
trans-1,3-Dichloropropene	ND	ug/l	1.0			
Methylene chloride	ND	ug/l	10.			
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0			
Tetrachloroethene	ND	ug/l	1.0			
1,1,1-Trichloroethane	ND	ug/l	1.0			
1,1,2-Trichloroethane	ND	ug/l	1.0			
Trichloroethene	2.2	ug/l	1.0			
Trichlorofluoromethane	ND	ug/l	1.0			
2-Chloroethylvinyl ether	ND	ug/l	10.			

Surrogate Recovery

4-Bromochlorobenzene 87.0 %

Comments: Complete list of References and Glossary of Terms found in Addendum I



ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9906046-25  
 Date Collected: 29-JUL-1999  
 MW-40  
 Date Received : 29-JUL-1999  
 Sample Matrix: WATER  
 Date Reported : 05-AUG-99  
 Condition of Sample: Satisfactory  
 Field Prep: None  
 Number & Type of Containers: 2-40ml VOA

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC 8021				1	8021B	04-Aug	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	1.7	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	ND	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethylvinyl ether	ND	ug/l	10.				
Surrogate Recovery							
4-Bromochlorobenzene	85.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9906046-26 Date Collected: 29-JUL-1999  
 MW-40S Date Received : 29-JUL-1999  
 Sample Matrix: WATER Date Reported : 05-AUG-99  
 Condition of Sample: Satisfactory Field Prep: None  
 Number & Type of Containers: 2-40ml VOA

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS
Volatile Organics by GC 8021				1	8021B	04-Aug
Bromodichloromethane	ND	ug/l	1.0			
Bromoform	ND	ug/l	1.0			
Carbon tetrachloride	ND	ug/l	1.0			
Chlorobenzene	ND	ug/l	1.0			
Dibromochloromethane	ND	ug/l	10.			
Bromomethane/Chloroethane	ND	ug/l	10.			
Chloroform	ND	ug/l	1.0			
Chloromethane/Vinyl chloride	ND	ug/l	10.			
1,2-Dichlorobenzene	ND	ug/l	1.0			
1,3-Dichlorobenzene	ND	ug/l	1.0			
1,4-Dichlorobenzene	ND	ug/l	1.0			
Dichlorodifluoromethane	ND	ug/l	10.			
1,1-Dichloroethane	ND	ug/l	1.0			
1,2-Dichloroethane	ND	ug/l	1.0			
1,1-Dichloroethene	ND	ug/l	1.0			
cis-1,2-Dichloroethene	ND	ug/l	1.0			
trans-1,2-Dichloroethene	ND	ug/l	1.0			
1,2-Dichloropropane	ND	ug/l	1.0			
cis-1,3-Dichloropropene	ND	ug/l	1.0			
trans-1,3-Dichloropropene	ND	ug/l	1.0			
Methylene chloride	ND	ug/l	10.			
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0			
Tetrachloroethene	ND	ug/l	1.0			
1,1,1-Trichloroethane	ND	ug/l	1.0			
1,1,2-Trichloroethane	ND	ug/l	1.0			
Trichloroethene	8.6	ug/l	1.0			
Trichlorofluoromethane	ND	ug/l	1.0			
2-Chloroethylvinyl ether	ND	ug/l	10.			
Surrogate Recovery						
4-Bromochlorobenzene	81.0	%				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9906046-27

Date Collected: 29-JUL-1999

MW-34

Date Received : 29-JUL-1999

Sample Matrix:

WATER

Date Reported : 05-AUG-99

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-40ml VOA

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC 8021				1	8021B	04-Aug	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	ND	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethylvinyl ether	ND	ug/l	10.				

Surrogate Recovery

4-Bromochlorobenzene 84.0 %

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
 CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9906046-28

Date Collected: 29-JUL-1999

MW-TP3

Date Received : 29-JUL-1999

Sample Matrix:

WATER

Date Reported : 05-AUG-99

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-40ml VOA

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	TD
Volatile Organics by GC 8021				1	8021B	05-Aug	p
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	35.	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	2.0	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	23.	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethylvinyl ether	ND	ug/l	10.				

Surrogate Recovery

4-Bromochlorobenzene 80.0 %

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
 CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9906046-29

Date Collected: 29-JUL-1999

ERM-DUP3

Date Received : 29-JUL-1999

Sample Matrix:

WATER

Date Reported : 05-AUG-99

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-40ml VOA

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC 8021				1	8021B	05-Aug	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	ND	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethylvinyl ether	ND	ug/l	10.				

Surrogate Recovery

4-Bromochlorobenzene 82.0 %

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9906046-30  
 Sample Matrix: TRIP BLANK 1  
 WATER

Date Collected: 26-JUL-1999  
 Date Received : 29-JUL-1999  
 Date Reported : 05-AUG-99

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-40ml VOA

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS
Volatile Organics by GC 8021				1	8021B	05-Aug
Bromodichloromethane	ND	ug/l	1.0			
Bromoform	ND	ug/l	1.0			
Carbon tetrachloride	ND	ug/l	1.0			
Chlorobenzene	ND	ug/l	1.0			
Dibromochloromethane	ND	ug/l	10.			
Bromomethane/Chloroethane	ND	ug/l	10.			
Chloroform	ND	ug/l	1.0			
Chloromethane/Vinyl chloride	ND	ug/l	10.			
1,2-Dichlorobenzene	ND	ug/l	1.0			
1,3-Dichlorobenzene	ND	ug/l	1.0			
1,4-Dichlorobenzene	ND	ug/l	1.0			
Dichlorodifluoromethane	ND	ug/l	10.			
1,1-Dichloroethane	ND	ug/l	1.0			
1,2-Dichloroethane	ND	ug/l	1.0			
1,1-Dichloroethene	ND	ug/l	1.0			
cis-1,2-Dichloroethene	ND	ug/l	1.0			
trans-1,2-Dichloroethene	ND	ug/l	1.0			
1,2-Dichloropropane	ND	ug/l	1.0			
cis-1,3-Dichloropropene	ND	ug/l	1.0			
trans-1,3-Dichloropropene	ND	ug/l	1.0			
Methylene chloride	ND	ug/l	10.			
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0			
Tetrachloroethene	ND	ug/l	1.0			
1,1,1-Trichloroethane	ND	ug/l	1.0			
1,1,2-Trichloroethane	ND	ug/l	1.0			
Trichloroethene	ND	ug/l	1.0			
Trichlorofluoromethane	ND	ug/l	1.0			
2-Chloroethylvinyl ether	ND	ug/l	10.			

Surrogate Recovery

4-Bromochlorobenzene 85.0 %

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9906046-31  
ERM-DUP2  
Sample Matrix: WATER

Date Collected: 28-JUL-1999  
Date Received : 29-JUL-1999  
Date Reported : 05-AUG-99

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-40ml VOA

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC 8021				1	8021B	05-Aug	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	3.9	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	2.1	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	180	ug/l	1.0				
Trichlorofluoromethane	1.6	ug/l	1.0				
2-Chloroethylvinyl ether	ND	ug/l	10.				
Surrogate Recovery							
4-Bromochlorobenzene	89.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9906046-32  
TRIP BLANK 2  
Sample Matrix: WATER

Date Collected: 26-JUL-1999  
Date Received : 29-JUL-1999  
Date Reported : 05-AUG-99

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-40ml VOA

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS
Volatile Organics by GC 8021				1	8021B	05-Aug
Bromodichloromethane	ND	ug/l	1.0			
Bromoform	ND	ug/l	1.0			
Carbon tetrachloride	ND	ug/l	1.0			
Chlorobenzene	ND	ug/l	1.0			
Dibromochloromethane	ND	ug/l	10.			
Bromomethane/Chloroethane	ND	ug/l	10.			
Chloroform	ND	ug/l	1.0			
Chloromethane/Vinyl chloride	ND	ug/l	10.			
1,2-Dichlorobenzene	ND	ug/l	1.0			
1,3-Dichlorobenzene	ND	ug/l	1.0			
1,4-Dichlorobenzene	ND	ug/l	1.0			
Dichlorodifluoromethane	ND	ug/l	10.			
1,1-Dichloroethane	ND	ug/l	1.0			
1,2-Dichloroethane	ND	ug/l	1.0			
1,1-Dichloroethene	ND	ug/l	1.0			
cis-1,2-Dichloroethene	ND	ug/l	1.0			
trans-1,2-Dichloroethene	ND	ug/l	1.0			
1,2-Dichloropropane	ND	ug/l	1.0			
cis-1,3-Dichloropropene	ND	ug/l	1.0			
trans-1,3-Dichloropropene	ND	ug/l	1.0			
Methylene chloride	ND	ug/l	10.			
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0			
Tetrachloroethene	ND	ug/l	1.0			
1,1,1-Trichloroethane	ND	ug/l	1.0			
1,1,2-Trichloroethane	ND	ug/l	1.0			
Trichloroethene	ND	ug/l	1.0			
Trichlorofluoromethane	ND	ug/l	1.0			
2-Chloroethylvinyl ether	ND	ug/l	10.			

Surrogate Recovery

4-Bromochlorobenzene 81.0 %

Comments: Complete list of References and Glossary of Terms found in Addendum I



ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L9906046

Parameter	MS %	MSD %	RPD
Volatile Organics by GC 8021 for sample(s) 01-15			
Chlorobenzene	108	94	14
1,1-Dichloroethene	111	104	7
Trichloroethene	114	111	3
Volatile Organics by GC 8021 for sample(s) 16-32			
Chlorobenzene	99	96	3
1,1-Dichloroethene	104	104	0
Trichloroethene	108	98	9

ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L9906046

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS
Blank Analysis for sample(s) 01-15						
Volatile Organics by GC 8021				1	8021B	02-Aug JC
Bromodichloromethane	ND	ug/l	1.0			
Bromoform	ND	ug/l	1.0			
Carbon tetrachloride	ND	ug/l	1.0			
Chlorobenzene	ND	ug/l	1.0			
Dibromochloromethane	ND	ug/l	10.			
Bromomethane/Chloroethane	ND	ug/l	10.			
Chloroform	ND	ug/l	1.0			
Chloromethane/Vinyl chloride	ND	ug/l	10.			
1,2-Dichlorobenzene	ND	ug/l	1.0			
1,3-Dichlorobenzene	ND	ug/l	1.0			
1,4-Dichlorobenzene	ND	ug/l	1.0			
Dichlorodifluoromethane	ND	ug/l	10.			
1,1-Dichloroethane	ND	ug/l	1.0			
1,2-Dichloroethane	ND	ug/l	1.0			
1,1-Dichloroethene	ND	ug/l	1.0			
cis-1,2-Dichloroethene	ND	ug/l	1.0			
trans-1,2-Dichloroethene	ND	ug/l	1.0			
1,2-Dichloropropane	ND	ug/l	1.0			
cis-1,3-Dichloropropene	ND	ug/l	1.0			
trans-1,3-Dichloropropene	ND	ug/l	1.0			
Methylene chloride	ND	ug/l	10.			
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0			
Tetrachloroethene	ND	ug/l	1.0			
1,1,1-Trichloroethane	ND	ug/l	1.0			
1,1,2-Trichloroethane	ND	ug/l	1.0			
Trichloroethene	ND	ug/l	1.0			
Trichlorofluoromethane	ND	ug/l	1.0			
2-Chloroethylvinyl ether	ND	ug/l	10.			

Surrogate Recovery

4-Bromochlorobenzene                      89.0                      %

Blank Analysis for sample(s) 01-15						
Volatile Organics by GC 8021				1	8021B	02-Aug p
Bromodichloromethane	ND	ug/l	1.0			
Bromoform	ND	ug/l	1.0			
Carbon tetrachloride	ND	ug/l	1.0			
Chlorobenzene	ND	ug/l	1.0			
Dibromochloromethane	ND	ug/l	10.			
Bromomethane/Chloroethane	ND	ug/l	10.			
Chloroform	ND	ug/l	1.0			
Chloromethane/Vinyl chloride	ND	ug/l	10.			
1,2-Dichlorobenzene	ND	ug/l	1.0			
1,3-Dichlorobenzene	ND	ug/l	1.0			
1,4-Dichlorobenzene	ND	ug/l	1.0			
Dichlorodifluoromethane	ND	ug/l	10.			

ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L9906046

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Blank Analysis for sample(s) 01-15							
Volatile Organics by GC 8021 continued				1	8021B	02-Aug	JC
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	ND	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethylvinyl ether	ND	ug/l	10.				

Surrogate Recovery

4-Bromochlorobenzene                      89.0                      %

Blank Analysis for sample(s) 16-17,20							
Volatile Organics by GC 8021				1	8021B	03-Aug	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				

ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L9906046

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS
Blank Analysis for sample(s) 16-17,20						
Volatile Organics by GC 8021 continued				1	8021B	03-Aug JC
1,1,2-Trichloroethane	ND	ug/l	1.0			
Trichloroethene	ND	ug/l	1.0			
Trichlorofluoromethane	ND	ug/l	1.0			
2-Chloroethylvinyl ether	ND	ug/l	10.			
Surrogate Recovery						
4-Bromochlorobenzene	82.0	%				
Blank Analysis for sample(s) 18-19,21-32						
Volatile Organics by GC 8021				1	8021B	04-Aug JC
Bromodichloromethane	ND	ug/l	1.0			
Bromoform	ND	ug/l	1.0			
Carbon tetrachloride	ND	ug/l	1.0			
Chlorobenzene	ND	ug/l	1.0			
Dibromochloromethane	ND	ug/l	10.			
Bromomethane/Chloroethane	ND	ug/l	10.			
Chloroform	ND	ug/l	1.0			
Chloromethane/Vinyl chloride	ND	ug/l	10.			
1,2-Dichlorobenzene	ND	ug/l	1.0			
1,3-Dichlorobenzene	ND	ug/l	1.0			
1,4-Dichlorobenzene	ND	ug/l	1.0			
Dichlorodifluoromethane	ND	ug/l	10.			
1,1-Dichloroethane	ND	ug/l	1.0			
1,2-Dichloroethane	ND	ug/l	1.0			
1,1-Dichloroethene	ND	ug/l	1.0			
cis-1,2-Dichloroethene	ND	ug/l	1.0			
trans-1,2-Dichloroethene	ND	ug/l	1.0			
1,2-Dichloropropane	ND	ug/l	1.0			
cis-1,3-Dichloropropene	ND	ug/l	1.0			
trans-1,3-Dichloropropene	ND	ug/l	1.0			
Methylene chloride	ND	ug/l	10.			
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0			
Tetrachloroethene	ND	ug/l	1.0			
1,1,1-Trichloroethane	ND	ug/l	1.0			
1,1,2-Trichloroethane	ND	ug/l	1.0			
Trichloroethene	ND	ug/l	1.0			
Trichlorofluoromethane	ND	ug/l	1.0			
2-Chloroethylvinyl ether	ND	ug/l	10.			
Surrogate Recovery						
4-Bromochlorobenzene	99.0	%				

ALPHA ANALYTICAL LABORATORIES  
ADDENDUM I

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REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Update III, 1997.

GLOSSARY OF TERMS AND SYMBOLS

REF Reference number in which test method may be found.

METHOD Method number by which analysis was performed.

ID Initials of the analyst.

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

# ALPHA

Analytical Laboratories, Inc.

Eight Walkup Drive  
Westborough, MA 01581-1019  
508-898-9220 FAX 508-898-9193

## CHAIN OF CUSTODY RECORD and ANALYSIS REQUEST RECORD

No. 112885  
Sheet 1 of 4  
Date Due: Aug 5, 1999

Company Name: ERM - New England

Project Number: 143-48  
P.O. Number:

Project Name/Location: Raytheon Wayland

Company Address: 399 Boylston St., 6th Floor  
Boston MA

Phone Number: ~~868~~ (617) 267-8377  
FAX No.: 267 6447

Project Manager: John McTigue

ALPHA Lab # (Lab Use Only)	Sample I.D.	Container Codes: P=Plastic V=Vial C=Cube G=Glass A=Amber Glass B=Bacteria Container O=Other	Containers (number/type)	Matrix/Source	Method Preserve. (number of containers)						Solubles - F.F.	Sampling		MATRIX/SOURCE CODES				
					Unpres.	Ice	Nitric	Sulfuric	HCl	Other		Date	Time	MW=Monitoring Well	RO=Runoff	O=Outfall	W=Well	FL=Landfill
					Analysis Requested													
6046	MW-41		2/V	MW	/			/			7/28/99	1410	8021 B (chlorinated)					
2	MW-32		2/V	MW	/			/			7/28/99	1520	ONLY					
3	HA-101		2/V	MW	/			/			7/28/99	1510						
4	HA-102		2/V	MW	/			/			7/28/99	1440						
5	MW-10		2/V	MW	/			/			7/28/99	1540						
6	MW-45S		2/V	MW	/			/			7/28/99	1445						
7	MW-45M		2/V	MW	/			/			7/28/99	1450						
8	MW-47S		2/V	MW	/			/			7/28/99	1540						
9	MW-47M		2/V	MW	/			/			7/28/99	1615						
10	MW-47D		2/V	MW	/			/			7/28/99	1625						

Sampler's Signature: [Signature] Affiliation: ERM Date: 7/28/99 Time: 17:00

ADDITIONAL COMMENTS:  
Send results to Attn: Ryan Bagley

NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	<u>[Signature]</u>	<u>[Signature]</u>	7/28/99	1400
2	<u>[Signature]</u>	<u>[Signature]</u>	7/29/99	1445
3	<u>[Signature]</u>	<u>[Signature]</u>	7/29/99	1500
4				

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Westborough, MA 01581-1019  
508-898-9220 FAX 508-898-9193

## CHAIN OF CUSTODY RECORD and ANALYSIS REQUEST RECORD

No. 112886

Sheet 2 of 4

Company Name: **ERM - New England**

Project Number: **143-48**  
P.O. Number:

Project Name/Location: **RATHEON WAYLAND**


Date Due: **Aug 5, 1999**

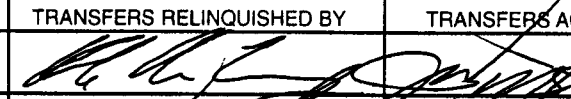


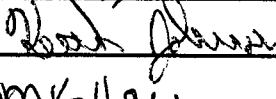
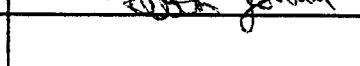
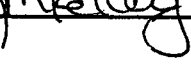
Company Address: **399 Boylston St., 6th Floor  
Boston, MA**


Phone Number: **(617) 267 8377**  
FAX No.: **267 6447**

Project Manager: **John Mc Tighe**

ALPHA Lab #	Sample I.D.	Containers (number/type)	Matrix/Source	Method Preserve. (number of containers)						Solubles - F.F.	Sampling Date	Sampling Time	MATRIX/SOURCE CODES MW=Monitoring Well RO=Runoff O=Outfall W=Well FL=Landfill L=Lake/Pond/Ocean I=Influent E=Effluent DW=Drinking Water R=River Stream S=Soil SG=Sludge B=Bottom Sediment X1=Other X2=Other	Analysis Requested
				Unpres.	Ice	Nitric	Sulfuric	HCl	Other					
				Container Codes: P=Plastic V=Vial C=Cube G=Glass A=Amber Glass B=Bacteria Container O=Other										
41546	ERM-DUP1	2/V	MW	2/			2/			7/28/99	1645	8021B (chlorinated)		
12	MW-46S	2/V	MW	2/			2/			7/29/99	0915	ONLY		
13	MW-46M	2/V	MW	2/			2/			7/29/99	1000			
14	HA-103	2/V	MW	2/			2/			7/29/99	0940			
15	<del>HA-104</del>	<del>2/V</del>	<del>MW</del>	<del>2/</del>			<del>2/</del>			<del>7/29/99</del>				
16	MW-44S	2/V	MW	2/			2/			7/29/99	1120			
16	MW-44M	2/V	MW	2/			2/			7/29/99	1145			
17	MW-44D	2/V	MW	2/			2/			7/29/99	1125			
18	MW-33S	2/V	MW	2/			2/			7/29/99	1215			
19	MW-33M	2/V	MW	2/			2/			7/29/99	1240			

Sampler's Signature:  Affiliation: **ERM** Date: **7/29/99** Time: **1400**

NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1			7/29/99	1400
2			7/29/99	1445
3			7/29/99	1500
4				

ADDITIONAL COMMENTS:  
Send results Attn: Ryan Bagley  


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## CHAIN OF CUSTODY RECORD and ANALYSIS REQUEST RECORD

No. 112887

Sheet 3 of 4

Company Name:  
**ERM - New England**

Project Number: **143-48**  
P.O. Number:

Project Name/Location:  
**RAYTHEON WAYLAND**

Date Due:  
**Aug 5, 1999**


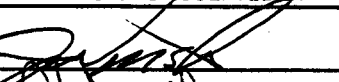
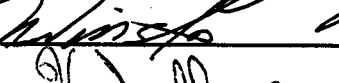

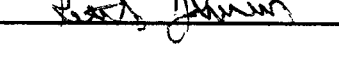
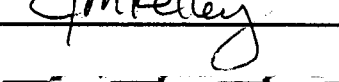
Company Address: **399 Boylston St., 6th Floor  
Boston, MA**

Phone Number: **(617) 267 8377**  
FAX No.: **267 6447**

Project Manager:  
**John McTigue**

ALPHA Lab #	Sample I.D.	Containers (number/type)	Matrix/Source	Method Preserve. (number of containers)						Solubles - F.F.	Sampling		MATRIX/SOURCE CODES				
				Unpres.	Ice	Nitric	Sulfuric	HCl	Other		Date	Time	MW=Monitoring Well	RO=Runoff	O=Outfall	W=Well	FL=Landfill
	MW-37 M	2/V	MW	/			/			7/29/99	1325	8021 B	(chlorinated)				
	MW-37	2/V	MW	/			/			7/29/99	0900						
	MW-43S	2/V	MW	/			/			7/29/99	1205						
	MW-42S	2/V	MW	/			/			7/29/99	1220						
	MW-38	2/V	MW	/			/			7/29/99	0945						
	<del>MW-39</del>	<del>2/V</del>	<del>MW</del>	<del>/</del>			<del>/</del>			<del>7/29/99</del>	<del>X</del>						
	MW-40	2/V	MW	/			/			7/29/99	1040						
	MW-40S	2/V	MW	/			/			7/29/99	1020						
	MW-34	2/V	MW	/			/			7/29/99	1050						
	<del>MW-41</del>	<del>2/V</del>	<del>MW</del>	<del>/</del>			<del>/</del>			<del>7/29/99</del>	<del>X</del>						

Sampler's Signature:  Affiliation: \_\_\_\_\_ Date: **7/29/99** Time: **16:00**

NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1			7/29/99	1400
2			7/29/99	1415
3			7/29/99	1420
4				

ADDITIONAL COMMENTS:  
sand results Attn Ryan Boyleg



# ALPHA

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## CHAIN OF CUSTODY RECORD and ANALYSIS REQUEST RECORD

No. 112888  
Sheet 4 of 4  
Date Due: Aug 5 1999

Company Name: <b>ERM - New England</b>	Project Number: <b>143-48</b>	Project Name/Location: <b>Raytheon Wayland</b>
Company Address: <b>399 Boylston St., 6th Floor Boston MA</b>	Phone Number: <b>(617) 267 8377</b> FAX No.: <b>267 6447</b>	Project Manager: <b>John McTigue</b>

ALPHA Lab # (Lab Use Only)	Sample I.D.	Containers (number/type)	Matrix/Source	Method Preserve. (number of containers)						Solubles - F.F.	Sampling		MATRIX/SOURCE CODES				
				Unpres.	Ice	Nitric	Sulfuric	HCl	Other		Date	Time	MW=Monitoring Well	RO=Runoff	O=Outfall	W=Well	FL=Landfill
28	MW-TP 3	2/V	MW	/	/	/	/			7/29/99	1325	8021B	CHLORINATEDS ONLY				
	<del>ERM-DUP 2</del>	<del>2/V</del>	<del>MW</del>	/	/	/	/			7/29/99	X						
	<del>ERM-DUP 3</del>	<del>2/V</del>	<del>MW</del>	/	/	/	/			7/29/99	X						
29	ERM-DUP 3	2V	MW	2			2			7/29/99	1345	8021B					
30	TRIPBLANK 1	1V	LW		1		1			7/26/99	1100	8021B					
32	TRIPBLANK 2	1V	LW		1		1					8021B					
33	ERM-DUP 2	2V	MW	2			2			7/29/99	1355	8021B	CHLORINATEDS ONLY				

Sampler's Signature: 	Affiliation: <b>ERM</b>	Date: <b>7/29/99</b>	Time: <b>1400</b>					
ADDITIONAL COMMENTS: Send results to Attn: Ryan Bagley				NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
				1			7/29/99	1400
				2			7/29/99	1445
				3			7/29/99	1500
				4				