



Volatile Organic Contaminant Report

I. PWS INFORMATION: Please refer to your DEP Water Quality Sampling Schedule (WQSS) to help complete this form

PWS ID #: **3116000** City / Town: **GROVELAND**
 PWS Name: **GROVELAND WATER DEPARTMENT** PWS Class: COM NTNC TNC

DEP LOCATION (LOC) ID#	DEP Location Name	Sample Information	Sample Acidified?	Date Collected	Collected By	
10001	GP WELL #1	<input type="checkbox"/> (M)ultiple <input checked="" type="checkbox"/> (S)ingle	<input type="checkbox"/> (R)aw <input checked="" type="checkbox"/> (F)inished	Yes <input checked="" type="checkbox"/>	6/7/17	J. KOTULI
Routine or Special Sample <input type="checkbox"/> RS <input checked="" type="checkbox"/> SS	Original, Resubmitted or Confirmation Report <input checked="" type="checkbox"/> Original <input type="checkbox"/> Resubmitted <input type="checkbox"/> Confirmation	If Resubmitted Report, list below:				
		(1) Reason for Resubmission <input type="checkbox"/> Resample <input type="checkbox"/> Ranalysis <input type="checkbox"/> Report Correction		(2) Collection Date of Original Sample		
SAMPLE NOTES – Such as, if a Manifold/Multiple sample, list the source(s) that were on-line during sample collection.						

II. ANALYTICAL LABORATORY INFORMATION:

Primary Lab MA Cert. #: **MA026** Primary Lab Name: **Biomarine Inc.** Subcontracted? (Y/N) Y
 Analysis Lab MA Cert. #: **M-CT008** Analysis Lab Name: **MICROBAC LABS INC.**

Lab Method	Date Extracted (551.1 only)	Date Analyzed	Lab Sample ID#	LAB SAMPLE NOTES - Include information as to whether sample was diluted or additional contaminants detected.
524.2	-	6/12/17	D7F0737-01-64590A	
Was this Sample composited by the Lab? Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>				
COMPOSITE SAMPLE NOTES - Please list the composited sources by DEP Source Code (XXXXXXX-XXX), up to five individual sources.				

CAS#	REGULATED VOC CONTAMINANT	Results µg/L	MCL µg/L	MDL µg/L
71-43-2	BENZENE	ND	5	0.50
56-23-5	CARBON TETRACHLORIDE	ND	5	0.50
75-35-4	1,1-DICHLOROETHYLENE	ND	7	0.50
107-06-02	1,2-DICHLOROETHANE	ND	5	0.50
106-46-7	PARA-DICHLOROBENZENE	ND	5	0.50
79-01-6	TRICHLOROETHYLENE (TCE)	ND	5	0.50
71-55-6	1,1,1-TRICHLOROETHANE	ND	200	0.50
75-01-4	VINYL CHLORIDE	ND	2	0.50
108-90-7	MONOCHLOROBENZENE	ND	100	0.50
95-50-1	O-DICHLOROBENZENE	ND	600	0.50
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND	100	0.50
156-59-2	CIS-1,2-DICHLOROETHYLENE	ND	70	0.50
78-87-5	1,2-DICHLOROPROPANE	ND	5	0.50
100-41-4	ETHYLBENZENE	ND	700	0.50
100-42-5	STYRENE	ND	100	0.50
127-18-4	TETRACHLOROETHYLENE (PCE)	ND	5	0.50
108-88-3	TOLUENE	ND	1000	0.50
1330-20-7	XYLENES (TOTAL)	ND	10000	0.50
75-09-2	DICHLOROMETHANE	ND	5	0.50
120-82-1	1,2,4-TRICHLOROBENZENE	ND	70	0.50
79-00-5	1,1,2-TRICHLOROETHANE	ND	5	0.50



Volatile Organic Contaminant Report

PWS ID#: 3116000

Lab Sample ID#: D7F0737-01-64590A

Table with 4 columns: CAS#, UNREGULATED VOC CONTAMINANTS, Results µg/L, MDL µg/L. Lists various VOCs such as Chloroform, Bromodichloromethane, etc., with results mostly ND and MDL values.

Table with 4 columns: CAS#, ADDITIONAL UNREGULATED and/or NON-TARGET VOC CONTAMINANTS, Results µg/L, MDL µg/L. Lists additional VOCs such as Tetrahydrofuran, Tert-butyl Alcohol, etc., with empty result and MDL cells.

Check this box if attaching lab report to show additional VOC results/contaminants tested.

Required
* DEP ORSG limit established.

Table with 2 columns: Surrogate Name, % Recovery (70 - 130%). Rows for 1,2-Dichlorobenzene-d4 (90.7%) and Bromofluorobenzene (92.6%).

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

Primary Lab Director Signature: [Signature]

Date: 6/30/17

If not submitting these results electronically, mail TWO copies of this report to your DEP Regional Office no later than 10 days after the end of the month in which you received this report or no later than 10 days after the end of the reporting period, whichever is sooner.

DEP REVIEW STATUS (Initial & Date)
Review Comments
WQTS Data Entered



Volatile Organic Contaminant Report

I. PWS INFORMATION: Please refer to your DEP Water Quality Sampling Schedule (WQSS) to help complete this form

PWS ID #: **3116000** City / Town: **GROVELAND**
 PWS Name: **GROVELAND WATER DEPARTMENT** PWS Class: COM NTNC TNC

DEP LOCATION (LOC) ID#	DEP Location Name	Sample Information	Sample Acidified?	Date Collected	Collected By	
10002	GP WELL #3	<input type="checkbox"/> (M)ultiple <input checked="" type="checkbox"/> (S)ingle	<input type="checkbox"/> (R)aw <input checked="" type="checkbox"/> (F)inished	Yes <input checked="" type="checkbox"/>	6/7/17	J. KOTULI
Routine or Special Sample	Original, Resubmitted or Confirmation Report	If Resubmitted Report, list below:				
		(1) Reason for Resubmission	(2) Collection Date of Original Sample			
<input type="checkbox"/> RS <input checked="" type="checkbox"/> SS	<input checked="" type="checkbox"/> Original <input type="checkbox"/> Resubmitted <input type="checkbox"/> Confirmation	<input type="checkbox"/> Resample <input type="checkbox"/> Ranalysis <input type="checkbox"/> Report Correction				
SAMPLE NOTES – Such as, if a Manifold/Multiple sample, list the source(s) that were on-line during sample collection.						

II. ANALYTICAL LABORATORY INFORMATION:

Primary Lab MA Cert. #: **MA026** Primary Lab Name: **Biomarine Inc.** Subcontracted? (Y/N) Y N
 Analysis Lab MA Cert. #: **M-CT008** Analysis Lab Name: **MICROBAC LABS INC.**

Lab Method	Date Extracted (551.1 only)	Date Analyzed	Lab Sample ID#	LAB SAMPLE NOTES - Include information as to whether sample was diluted or additional contaminants detected.
524.2	-	6/12/17	D7F0737-02-64590B	
Was this Sample composited by the Lab?	COMPOSITE SAMPLE NOTES - Please list the composited sources by DEP Source Code (XXXXXXX-XXX), up to five individual sources.			
Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>				

CAS#	REGULATED VOC CONTAMINANT	Results µg/L	MCL µg/L	MDL µg/L
71-43-2	BENZENE	ND	5	0.50
56-23-5	CARBON TETRACHLORIDE	ND	5	0.50
75-35-4	1,1-DICHLOROETHYLENE	ND	7	0.50
107-06-02	1,2-DICHLOROETHANE	ND	5	0.50
106-46-7	PARA-DICHLOROBENZENE	ND	5	0.50
79-01-6	TRICHLOROETHYLENE (TCE)	ND	5	0.50
71-55-6	1,1,1-TRICHLOROETHANE	ND	200	0.50
75-01-4	VINYL CHLORIDE	ND	2	0.50
108-90-7	MONOCHLOROBENZENE	ND	100	0.50
95-50-1	O-DICHLOROBENZENE	ND	600	0.50
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND	100	0.50
156-59-2	CIS-1,2-DICHLOROETHYLENE	ND	70	0.50
78-87-5	1,2-DICHLOROPROPANE	ND	5	0.50
100-41-4	ETHYLBENZENE	ND	700	0.50
100-42-5	STYRENE	ND	100	0.50
127-18-4	TETRACHLOROETHYLENE (PCE)	ND	5	0.50
108-88-3	TOLUENE	ND	1000	0.50
1330-20-7	XYLENES (TOTAL)	ND	10000	0.50
75-09-2	DICHLOROMETHANE	ND	5	0.50
120-82-1	1,2,4-TRICHLOROBENZENE	ND	70	0.50
79-00-5	1,1,2-TRICHLOROETHANE	ND	5	0.50



Volatile Organic Contaminant Report

PWS ID#: **3116000**

Lab Sample ID#: **D7F0737-02-64590B**

CAS#	UNREGULATED VOC CONTAMINANTS	Results µg/L	MDL µg/L
67-66-3	CHLOROFORM*	ND	0.50
75-27-4	BROMODICHLOROMETHANE	ND	0.50
124-48-1	CHLORODIBROMOMETHANE	ND	0.50
75-25-2	BROMOFORM	ND	0.50
541-73-1	M-DICHLOROBENZENE	ND	0.50
74-95-3	DIBROMOMETHANE	ND	0.50
563-58-6	1,1-DICHLOROPROPENE	ND	0.50
75-34-3	1,1-DICHLOROETHANE*	ND	0.50
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	0.50
142-28-9	1,3-DICHLOROPROPANE	ND	0.50
74-87-3	CHLOROMETHANE	ND	0.50
74-83-9	BROMOMETHANE*	ND	0.50
96-18-4	1,2,3-TRICHLOROPROPANE	ND	0.50
630-20-6	1,1,1,2-TETRACHLOROETHANE	ND	0.50
75-00-3	CHLOROETHANE	ND	0.50
594-20-7	2,2-DICHLOROPROPANE	ND	0.50
95-49-8	O-CHLOROTOLUENE	ND	0.50
106-43-4	P-CHLOROTOLUENE	ND	0.50
108-86-1	BROMOBENZENE	ND	0.50
542-75-6	1,3-DICHLOROPROPENE*	ND	0.50
95-63-6	1,2,4-TRIMETHYLBENZENE	ND	0.50
87-61-6	1,2,3-TRICHLOROBENZENE	ND	0.50
103-65-1	N-PROPYLBENZENE	ND	0.50
104-51-8	N-BUTYLBENZENE	ND	0.50
91-20-3	NAPHTHALENE*	ND	0.50
87-68-3	HEXACHLOROBUTADIENE	ND	0.50
108-67-8	1,3,5-TRIMETHYLBENZENE	ND	0.50
99-87-6	P-ISOPROPYLTOLUENE	ND	0.50
98-82-8	ISOPROPYLBENZENE	ND	0.50
98-06-6	TERT-BUTYLBENZENE	ND	0.50
135-98-8	SEC-BUTYLBENZENE	ND	0.50
75-69-4	FLUOROTRICHLOROMETHANE	ND	0.50
75-71-8	DICHLORODIFLUOROMETHANE*	ND	0.50
74-97-5	BROMOCHLOROMETHANE	ND	0.50
1634-04-4	METHYL TERTIARY BUTYL ETHER (MTBE) [#]	ND	1.00

CAS#	ADDITIONAL UNREGULATED and/or NON-TARGET VOC CONTAMINANTS <i>(Report if analyzed or otherwise detected)</i>	Results µg/L	MDL µg/L
109-99-9	Tetrahydrofuran (THF)*		
75-65-0	TERT-BUTYL ALCOHOL (TBA)*		
1748-03-8	TERT-AMYL METHYL ETHER (TAME)*		
637-92-3	ETHYL TERTIARY BUTYL ETHER (ETBE)		
108-20-3	DI-ISOPROPYL ETHER (DIPE)		
67-64-1	ACETONE*		
76-13-1	FREON 113*		
78-93-3	METHYL ETHYL KETONE (MEK)*		
108-10-1	METHYL-ISOBUTYL KETONE (MIBK)*		

Check this box if attaching lab report to show additional VOC results/contaminants tested.

Required
* DEP ORSG limit established.

Surrogate Name	% Recovery (70 – 130%)
1,2-Dichlorobenzene-d4	91.9%
Bromofluorobenzene	94.6%

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

Primary Lab Director Signature: _____

Date: 6/30/17

If not submitting these results electronically, mail TWO copies of this report to your DEP Regional Office no later than 10 days after the end of the month in which you received this report or no later than 10 days after the end of the reporting period, whichever is sooner.

DEP REVIEW STATUS (Initial & Date) <input type="checkbox"/> Accepted _____ <input type="checkbox"/> Disapproved _____	Review Comments	<input type="checkbox"/> WQTS Data Entered
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 PWS Name: **GROVELAND WATER DEPARTMENT** PWS Class: COM NTNC TNC

DEP LOCATION (LOC) ID#	DEP Location Name	Sample Information	Sample Acidified?	Date Collected	Collected By	
10004	GP WELL #4	<input type="checkbox"/> (M)ultiple <input checked="" type="checkbox"/> (S)ingle	<input type="checkbox"/> (R)aw <input checked="" type="checkbox"/> (F)inished	Yes <input checked="" type="checkbox"/>	6/7/17	J. KOTULI
Routine or Special Sample	Original, Resubmitted or Confirmation Report	If Resubmitted Report, list below:				
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<input type="checkbox"/> RS <input checked="" type="checkbox"/> SS	<input checked="" type="checkbox"/> Original <input type="checkbox"/> Resubmitted <input type="checkbox"/> Confirmation	<input type="checkbox"/> Resample <input type="checkbox"/> Ranalysis <input type="checkbox"/> Report Correction				
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Lab Method	Date Extracted (551.1 only)	Date Analyzed	Lab Sample ID#	LAB SAMPLE NOTES - Include information as to whether sample was diluted or additional contaminants detected.
524.2	-	6/12/17	D7F0737-03-64590C	
Was this Sample composited by the Lab?	COMPOSITE SAMPLE NOTES - Please list the composited sources by DEP Source Code (XXXXXXX-XXX), up to five individual sources.			
Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>				

CAS#	REGULATED VOC CONTAMINANT	Results µg/L	MCL µg/L	MDL µg/L
71-43-2	BENZENE	ND	5	0.50
56-23-5	CARBON TETRACHLORIDE	ND	5	0.50
75-35-4	1,1-DICHLOROETHYLENE	ND	7	0.50
107-06-02	1,2-DICHLOROETHANE	ND	5	0.50
106-46-7	PARA-DICHLOROBENZENE	ND	5	0.50
79-01-6	TRICHLOROETHYLENE (TCE)	ND	5	0.50
71-55-6	1,1,1-TRICHLOROETHANE	ND	200	0.50
75-01-4	VINYL CHLORIDE	ND	2	0.50
108-90-7	MONOCHLOROBENZENE	ND	100	0.50
95-50-1	O-DICHLOROBENZENE	ND	600	0.50
156-60-5	TRANS-1,2-DICHLOROETHYLENE	ND	100	0.50
156-59-2	CIS-1,2-DICHLOROETHYLENE	ND	70	0.50
78-87-5	1,2-DICHLOROPROPANE	ND	5	0.50
100-41-4	ETHYLBENZENE	ND	700	0.50
100-42-5	STYRENE	ND	100	0.50
127-18-4	TETRACHLOROETHYLENE (PCE)	ND	5	0.50
108-88-3	TOLUENE	ND	1000	0.50
1330-20-7	XYLENES (TOTAL)	ND	10000	0.50
75-09-2	DICHLOROMETHANE	ND	5	0.50
120-82-1	1,2,4-TRICHLOROBENZENE	ND	70	0.50
79-00-5	1,1,2-TRICHLOROETHANE	ND	5	0.50



Volatile Organic Contaminant Report

PWS ID#: 3116000

Lab Sample ID#: D7F0737-03-64590C

CAS#	UNREGULATED VOC CONTAMINANTS	Results μg/L	MDL μg/L
67-66-3	CHLOROFORM*	ND	0.50
75-27-4	BROMODICHLOROMETHANE	ND	0.50
124-48-1	CHLORODIBROMOMETHANE	ND	0.50
75-25-2	BROMOFORM	ND	0.50
541-73-1	M-DICHLOROBENZENE	ND	0.50
74-95-3	DIBROMOMETHANE	ND	0.50
563-58-6	1,1-DICHLOROPROPENE	ND	0.50
75-34-3	1,1-DICHLOROETHANE*	ND	0.50
79-34-5	1,1,2,2-TETRACHLOROETHANE	ND	0.50
142-28-9	1,3-DICHLOROPROPANE	ND	0.50
74-87-3	CHLOROMETHANE	ND	0.50
74-83-9	BROMOMETHANE*	ND	0.50
96-18-4	1,2,3-TRICHLOROPROPANE	ND	0.50
630-20-6	1,1,1,2-TETRACHLOROETHANE	ND	0.50
75-00-3	CHLOROETHANE	ND	0.50
594-20-7	2,2-DICHLOROPROPANE	ND	0.50
95-49-8	O-CHLOROTOLUENE	ND	0.50
106-43-4	P-CHLOROTOLUENE	ND	0.50
108-86-1	BROMOBENZENE	ND	0.50
542-75-6	1,3-DICHLOROPROPENE*	ND	0.50
95-63-6	1,2,4-TRIMETHYLBENZENE	ND	0.50
87-61-6	1,2,3-TRICHLOROBENZENE	ND	0.50
103-65-1	N-PROPYLBENZENE	ND	0.50
104-51-8	N-BUTYLBENZENE	ND	0.50
91-20-3	NAPHTHALENE*	ND	0.50
87-68-3	HEXACHLOROBUTADIENE	ND	0.50
108-67-8	1,3,5-TRIMETHYLBENZENE	ND	0.50
99-87-6	P-ISOPROPYLTOLUENE	ND	0.50
98-82-8	ISOPROPYLBENZENE	ND	0.50
98-06-6	TERT-BUTYLBENZENE	ND	0.50
135-98-8	SEC-BUTYLBENZENE	ND	0.50
75-69-4	FLUOROTRICHLOROMETHANE	ND	0.50
75-71-8	DICHLORODIFLUOROMETHANE*	ND	0.50
74-97-5	BROMOCHLOROMETHANE	ND	0.50
1634-04-4	METHYL TERTIARY BUTYL ETHER (MTBE) [#]	ND	1.00

CAS#	ADDITIONAL UNREGULATED and/or NON-TARGET VOC CONTAMINANTS <i>(Report if analyzed or otherwise detected)</i>	Results μg/L	MDL μg/L
109-99-9	Tetrahydrofuran (THF)*		
75-65-0	TERT-BUTYL ALCOHOL (TBA)*		
1748-03-8	TERT-AMYL METHYL ETHER (TAME)*		
637-92-3	ETHYL TERTIARY BUTYL ETHER (ETBE)		
108-20-3	DI-ISOPROPYL ETHER (DIPE)		
67-64-1	ACETONE*		
76-13-1	FREON 113*		
78-93-3	METHYL ETHYL KETONE (MEK)*		
108-10-1	METHYL-ISOBUTYL KETONE (MIBK)*		

Check this box if attaching lab report to show additional VOC results/contaminants tested.

Required
* DEP ORSG limit established.

Surrogate Name	% Recovery (70 – 130%)
1,2-Dichlorobenzene-d4	90.0%
Bromofluorobenzene	94.2%

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

Primary Lab Director Signature: _____

Date: 7/6/17

If not submitting these results electronically, mail TWO copies of this report to your DEP Regional Office no later than 10 days after the end of the month in which you received this report or no later than 10 days after the end of the reporting period, whichever is sooner.

DEP REVIEW STATUS (Initial & Date) <input type="checkbox"/> Accepted _____ <input type="checkbox"/> Disapproved _____	Review Comments	<input type="checkbox"/> WQTS Data Entered
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Microbac Laboratories, Inc. - Dayville

CERTIFICATE OF ANALYSIS

D7F0737

Biomarine

Project Name: 64590

Tracey Fraser
16 East Main Street
Gloucester, MA 01930

Project / PO Number: 64590
Received: 06/08/2017
Reported: 06/14/2017

Analytical Testing Parameters

Table with 4 columns: Client Sample ID (64590A), Sample Matrix (Drinking Water), Lab Sample ID (D7F0737-01), Collected By (Customer), and Collection Date (06/07/2017).

Main data table with 9 columns: Volatile Organic Compounds - GC/MS, Result, RL, Units, Note, Prepared, Analyzed, Lab. Lists various compounds like Benzene, Bromobenzene, etc., with their respective results and analysis dates.



Microbac Laboratories, Inc. - Dayville

CERTIFICATE OF ANALYSIS

D7F0737

Client Sample ID: 64590A	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 06/07/2017
Lab Sample ID: D7F0737-01	

Volatil Organic Compounds - GC/MS	Result	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2, Rv 4.1							
4-Isopropyltoluene (p-Isopropyltoluene)	<0.50	0.50	ug/L			06/12/17 1721	DAY
Methyl tert-butyl ether (MTBE)	<1.00	1.00	ug/L			06/12/17 1721	DAY
Methylene chloride (Dichloromethane)	<0.50	0.50	ug/L			06/12/17 1721	DAY
Naphthalene	<0.50	0.50	ug/L			06/12/17 1721	DAY
n-Propylbenzene	<0.50	0.50	ug/L			06/12/17 1721	DAY
Styrene	<0.50	0.50	ug/L			06/12/17 1721	DAY
1,1,1,2-Tetrachloroethane	<0.50	0.50	ug/L			06/12/17 1721	DAY
1,1,2,2-Tetrachloroethane	<0.50	0.50	ug/L			06/12/17 1721	DAY
Tetrachloroethene	<0.50	0.50	ug/L			06/12/17 1721	DAY
Toluene	<0.50	0.50	ug/L			06/12/17 1721	DAY
1,2,4-Trichlorobenzene	<0.50	0.50	ug/L			06/12/17 1721	DAY
1,2,3-Trichlorobenzene	<0.50	0.50	ug/L			06/12/17 1721	DAY
1,1,1-Trichloroethane	<0.50	0.50	ug/L			06/12/17 1721	DAY
1,1,2-Trichloroethane	<0.50	0.50	ug/L			06/12/17 1721	DAY
Trichloroethene	<0.50	0.50	ug/L			06/12/17 1721	DAY
Trichlorofluoromethane (Freon 11)	<0.50	0.50	ug/L			06/12/17 1721	DAY
1,2,3-Trichloropropane	<0.50	0.50	ug/L			06/12/17 1721	DAY
1,2,4-Trimethylbenzene	<0.50	0.50	ug/L			06/12/17 1721	DAY
1,3,5-Trimethylbenzene	<0.50	0.50	ug/L			06/12/17 1721	DAY
Vinyl chloride	<0.50	0.50	ug/L			06/12/17 1721	DAY
m,p-Xylene	<0.50	0.50	ug/L			06/12/17 1721	DAY
o-Xylene	<0.50	0.50	ug/L			06/12/17 1721	DAY
Xylenes (total)	<0.50	0.50	ug/L			06/12/17 1721	DAY
Surrogate: 4-Bromofluorobenzene	92.6	Limit: 70-130	% Rec			06/12/17 1721	DAY
Surrogate: 1,2-Dichlorobenzene-d4	90.7	Limit: 70-130	% Rec			06/12/17 1721	DAY



Microbac Laboratories, Inc. - Dayville

CERTIFICATE OF ANALYSIS

D7F0737

Client Sample ID: 64590B
Sample Matrix: Drinking Water
Lab Sample ID: D7F0737-02

Collected By: Customer
Collection Date: 06/07/2017

Table with 8 columns: Volatile Organic Compounds - GC/MS, Result, RL, Units, Note, Prepared, Analyzed, Lab. Rows include various compounds like Benzene, Bromobenzene, etc., with their respective results and RL values.



Microbac Laboratories, Inc. - Dayville

CERTIFICATE OF ANALYSIS

D7F0737

Client Sample ID: 64590B	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 06/07/2017
Lab Sample ID: D7F0737-02	

Volatil Organic Compounds - GC/MS	Result	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2, Rv 4.1							
1,1,1,2-Tetrachloroethane	<0.50	0.50	ug/L			06/12/17 1744	DAY
1,1,2,2-Tetrachloroethane	<0.50	0.50	ug/L			06/12/17 1744	DAY
Tetrachloroethene	<0.50	0.50	ug/L			06/12/17 1744	DAY
Toluene	<0.50	0.50	ug/L			06/12/17 1744	DAY
1,2,4-Trichlorobenzene	<0.50	0.50	ug/L			06/12/17 1744	DAY
1,2,3-Trichlorobenzene	<0.50	0.50	ug/L			06/12/17 1744	DAY
1,1,1-Trichloroethane	<0.50	0.50	ug/L			06/12/17 1744	DAY
1,1,2-Trichloroethane	<0.50	0.50	ug/L			06/12/17 1744	DAY
Trichloroethene	<0.50	0.50	ug/L			06/12/17 1744	DAY
Trichlorofluoromethane (Freon 11)	<0.50	0.50	ug/L			06/12/17 1744	DAY
1,2,3-Trichloropropane	<0.50	0.50	ug/L			06/12/17 1744	DAY
1,2,4-Trimethylbenzene	<0.50	0.50	ug/L			06/12/17 1744	DAY
1,3,5-Trimethylbenzene	<0.50	0.50	ug/L			06/12/17 1744	DAY
Vinyl chloride	<0.50	0.50	ug/L			06/12/17 1744	DAY
m,p-Xylene	<0.50	0.50	ug/L			06/12/17 1744	DAY
o-Xylene	<0.50	0.50	ug/L			06/12/17 1744	DAY
Xylenes (total)	<0.50	0.50	ug/L			06/12/17 1744	DAY
Surrogate: 4-Bromofluorobenzene	94.6	Limit: 70-130	% Rec			06/12/17 1744	DAY
Surrogate: 1,2-Dichlorobenzene-d4	91.9	Limit: 70-130	% Rec			06/12/17 1744	DAY



Microbac Laboratories, Inc. - Dayville

CERTIFICATE OF ANALYSIS

D7F0737

Client Sample ID: 64590C	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 06/07/2017
Lab Sample ID: D7F0737-03	

Volatiles Organic Compounds - GC/MS	Result	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2, Rv 4.1							
Benzene	<0.50	0.50	ug/L			06/12/17 1808	DAY
Bromobenzene	<0.50	0.50	ug/L			06/12/17 1808	DAY
Bromochloromethane	<0.50	0.50	ug/L			06/12/17 1808	DAY
Bromodichloromethane	<0.50	0.50	ug/L			06/12/17 1808	DAY
Bromoform	<0.50	0.50	ug/L			06/12/17 1808	DAY
Bromomethane	<0.50	0.50	ug/L			06/12/17 1808	DAY
tert-Butylbenzene	<0.50	0.50	ug/L			06/12/17 1808	DAY
sec-Butylbenzene	<0.50	0.50	ug/L			06/12/17 1808	DAY
n-Butylbenzene	<0.50	0.50	ug/L			06/12/17 1808	DAY
Carbon tetrachloride	<0.50	0.50	ug/L			06/12/17 1808	DAY
Chlorobenzene	<0.50	0.50	ug/L			06/12/17 1808	DAY
Chloroethane (Ethyl chloride)	<0.50	0.50	ug/L			06/12/17 1808	DAY
Chloroform	<0.50	0.50	ug/L			06/12/17 1808	DAY
Chloromethane	<0.50	0.50	ug/L			06/12/17 1808	DAY
2-Chlorotoluene	<0.50	0.50	ug/L			06/12/17 1808	DAY
4-Chlorotoluene	<0.50	0.50	ug/L			06/12/17 1808	DAY
Dibromochloromethane	<0.50	0.50	ug/L			06/12/17 1808	DAY
Dibromomethane (Methylene bromide)	<0.50	0.50	ug/L			06/12/17 1808	DAY
1,4-Dichlorobenzene	<0.50	0.50	ug/L			06/12/17 1808	DAY
1,2-Dichlorobenzene	<0.50	0.50	ug/L			06/12/17 1808	DAY
1,3-Dichlorobenzene	<0.50	0.50	ug/L			06/12/17 1808	DAY
Dichlorodifluoromethane (Freon-12)	<0.50	0.50	ug/L			06/12/17 1808	DAY
1,2-Dichloroethane	<0.50	0.50	ug/L			06/12/17 1808	DAY
1,1-Dichloroethane	<0.50	0.50	ug/L			06/12/17 1808	DAY
trans-1,2-Dichloroethene	<0.50	0.50	ug/L			06/12/17 1808	DAY
cis-1,2-Dichloroethene	<0.50	0.50	ug/L			06/12/17 1808	DAY
1,1-Dichloroethene	<0.50	0.50	ug/L			06/12/17 1808	DAY
1,3-Dichloropropane	<0.50	0.50	ug/L			06/12/17 1808	DAY
2,2-Dichloropropane	<0.50	0.50	ug/L			06/12/17 1808	DAY
1,2-Dichloropropane	<0.50	0.50	ug/L			06/12/17 1808	DAY
1,1-Dichloropropene	<0.50	0.50	ug/L			06/12/17 1808	DAY
trans-1,3-Dichloropropene	<0.50	0.50	ug/L			06/12/17 1808	DAY
cis-1,3-Dichloropropene	<0.50	0.50	ug/L			06/12/17 1808	DAY
Ethylbenzene	<0.50	0.50	ug/L			06/12/17 1808	DAY
Hexachlorobutadiene	<0.50	0.50	ug/L			06/12/17 1808	DAY
Isopropylbenzene (Cumene)	<0.50	0.50	ug/L			06/12/17 1808	DAY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.50	0.50	ug/L			06/12/17 1808	DAY
Methyl tert-butyl ether (MTBE)	<1.00	1.00	ug/L			06/12/17 1808	DAY
Methylene chloride (Dichloromethane)	<0.50	0.50	ug/L			06/12/17 1808	DAY
Naphthalene	<0.50	0.50	ug/L			06/12/17 1808	DAY
n-Propylbenzene	<0.50	0.50	ug/L			06/12/17 1808	DAY
Styrene	<0.50	0.50	ug/L			06/12/17 1808	DAY



Microbac Laboratories, Inc. - Dayville

CERTIFICATE OF ANALYSIS

D7F0737

Client Sample ID: 64590C	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 06/07/2017
Lab Sample ID: D7F0737-03	

Volatil Organic Compounds - GC/MS	Result	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2, Rv 4.1							
1,1,1,2-Tetrachloroethane	<0.50	0.50	ug/L			06/12/17 1808	DAY
1,1,2,2-Tetrachloroethane	<0.50	0.50	ug/L			06/12/17 1808	DAY
Tetrachloroethene	<0.50	0.50	ug/L			06/12/17 1808	DAY
Toluene	<0.50	0.50	ug/L			06/12/17 1808	DAY
1,2,4-Trichlorobenzene	<0.50	0.50	ug/L			06/12/17 1808	DAY
1,2,3-Trichlorobenzene	<0.50	0.50	ug/L			06/12/17 1808	DAY
1,1,1-Trichloroethane	<0.50	0.50	ug/L			06/12/17 1808	DAY
1,1,2-Trichloroethane	<0.50	0.50	ug/L			06/12/17 1808	DAY
Trichloroethene	<0.50	0.50	ug/L			06/12/17 1808	DAY
Trichlorofluoromethane (Freon 11)	<0.50	0.50	ug/L			06/12/17 1808	DAY
1,2,3-Trichloropropane	<0.50	0.50	ug/L			06/12/17 1808	DAY
1,2,4-Trimethylbenzene	<0.50	0.50	ug/L			06/12/17 1808	DAY
1,3,5-Trimethylbenzene	<0.50	0.50	ug/L			06/12/17 1808	DAY
Vinyl chloride	<0.50	0.50	ug/L			06/12/17 1808	DAY
m,p-Xylene	<0.50	0.50	ug/L			06/12/17 1808	DAY
o-Xylene	<0.50	0.50	ug/L			06/12/17 1808	DAY
Xylenes (total)	<0.50	0.50	ug/L			06/12/17 1808	DAY
Surrogate: 4-Bromofluorobenzene	94.2	Limit: 70-130	% Rec			06/12/17 1808	DAY
Surrogate: 1,2-Dichlorobenzene-d4	90.0	Limit: 70-130	% Rec			06/12/17 1808	DAY

Laboratory

DAY: Microbac Laboratories, Inc. - Dayville

Definitions

MCL: US EPA Maximum Contaminant Level
RL: Reporting Limit

Project Requested Certification(s)

Microbac Laboratories, Inc. - Dayville
M-CT008

Massachusetts Department of Environmental Protection

Report Comments

Samples were received in proper condition and the reported results conform to applicable accreditation standard unless otherwise noted.

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included.

Reviewed and Approved By:

[Handwritten Signature]

David P. Dickinson For Krysti M. Skidgell
Project Manager
krysti.skidgell@microbac.com
06/14/2017 10:14

Microbac Laboratories, Inc.