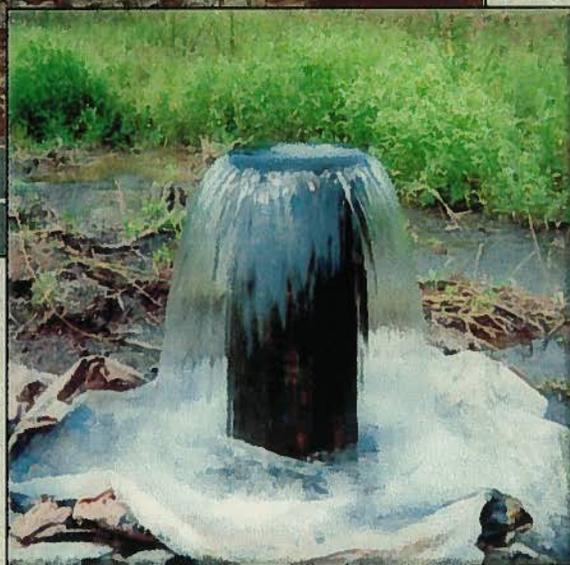
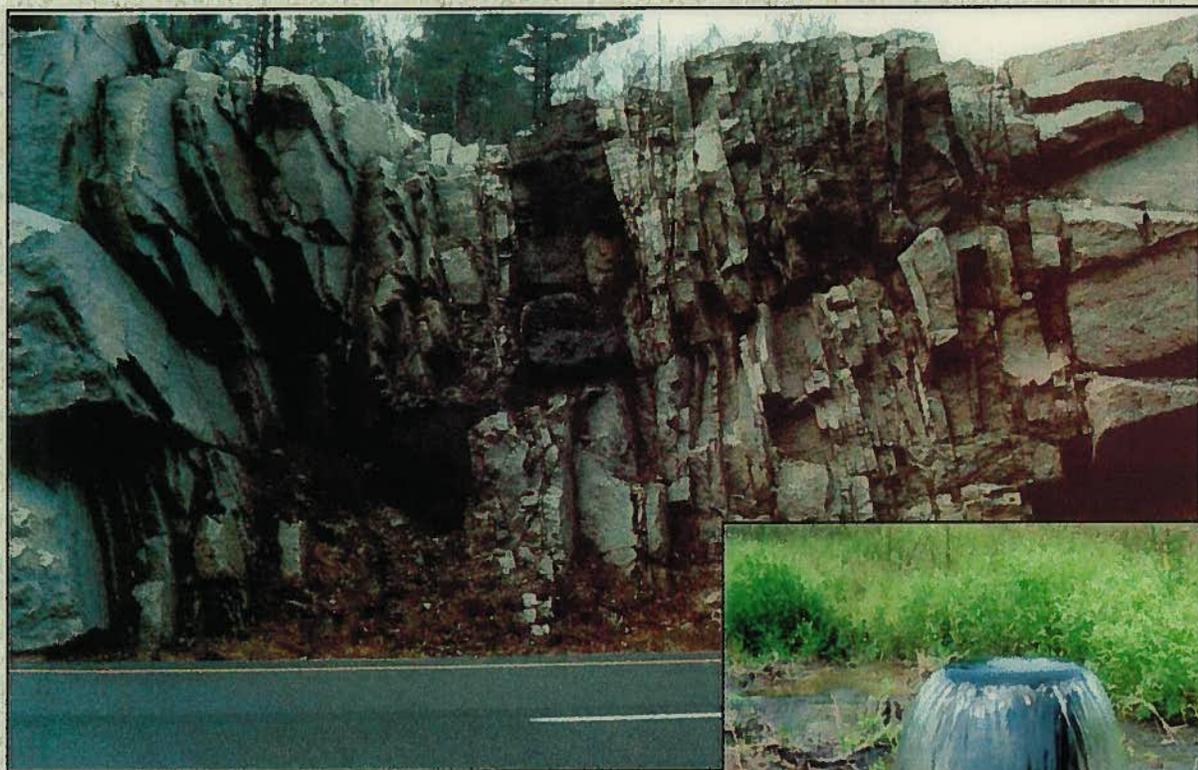


**WATER QUALITY TESTING
OF MONITORING WELLS FCA-1S, FCA-1D, AND FCA-2**

WARRENTON-FAUQUIER AIRPORT

WARRENTON, VIRGINIA



January 2011

Presented to:

**Mr. Anthony Hooper
Fauquier County**

EMERY & GARRETT GROUNDWATER, INC.

**56 Main Street • P.O. Box 1578
Meredith, New Hampshire 03253**

New England

Mid-Atlantic

South Atlantic

Emery & Garrett Groundwater, Inc.

***56 Main Street • P.O. Box 1578
Meredith, New Hampshire 03253***

(603) 279-4425

www.eggi.com

Fax (603) 279-8717

January 21, 2011

Mr. Anthony Hooper
Deputy County Administrator
Fauquier County
10 Hotel Street, Suite 204
Warrenton, VA 20186

Dear Tony,

Emery & Garrett Groundwater, Inc. (EGGI) has performed the second round of water quality sampling in the vicinity of the wastewater “drip drainfield” treatment facility at the Warrenton-Fauquier Airport (Figure 1). This work was performed in accordance with EGGI’s letter proposal of August 7, 2009 and is part of a groundwater monitoring program designed to evaluate the potential for nitrates (and other contaminants) to migrate off site in the groundwater.

Water samples were collected from six wells, including the three monitoring wells recently installed, an existing Airport Well, and two off-site residential wells¹ (Figure 1 and Table 1). Water samples from all six wells were analyzed for the following water quality parameters, in accordance with our original proposal.

- Specific conductivity
- Ammonia
- Nitrate
- Total Kjeldahl Nitrogen (TKN)
- Total Suspended Solids (TSS)
- Chloride
- Volatile Organic Compounds (VOCs) (including MtBE)
- pH
- Temperature
- Redox Potential²

Several other water quality parameters were analyzed as part of the National Testing Laboratories, Ltd. testing kit, though these parameters are not required for this study.

A portable submersible pump was used to purge water from Wells FCA-1D and FCA-2. Once field chemical parameters stabilized³, water samples were collected from each of these two

¹ EGGI obtained permission to collect water quality samples from two off site domestic wells identified as Midland United Methodist Church and the Johnson Residence.

² The redox potential represents the tendency for a chemical species to acquire electrons. In general, redox values that are more positive suggest that the groundwater is more oxygenated and likely to be water that is better connected to surface water influences. Negative redox potential is generally indicative of water that does not have a direct connection with surface water.

³ Specific conductance, temperature, pH, and redox readings were recorded every few minutes during purging until each parameter stopped having any significant variation.

Wells. Monitoring Well FCA-1S was sampled using a bailer after purging three well volumes of water. The two domestic wells (Midland United Methodist Church and Johnson Residence) and the Airport Well were sampled using the existing pumps after an extended period of pumping was complete. This helped to assure that water was derived from the underlying fractures prior to sample collection.

The Church Well and the Airport Well reportedly do not have any associated treatment systems and, therefore, the samples were collected directly from the tap. However, because the Johnson Residence Well had a home water softener system, a sample had to be collected from a spigot located at the base of the in-home pressure tank. All samples were delivered to Environmental Systems Service, Ltd. (ESS) in Culpeper, Virginia, and National Testing Laboratories, Ltd. (NTL) in Ypsilanti, Michigan for analyses (Appendix A and Table I).

No EPA Primary Drinking Water Standards were exceeded during this second round of water quality sampling except for arsenic in the Church Well. Ammonia and volatile organic compounds (VOCs) were not detected in any wells.

Results of the second round of sampling suggest that there are no current adverse impacts to groundwater quality due to operation of the wastewater "drip drainfield" treatment facility, except possibly at Well FCA-1S. Nitrate was detected in this well at 4.4 mg/l, which is just below the Virginia Ambient Groundwater Quality Standard of 5 mg/l. Low levels of nitrate may indicate minor impairment of the groundwater quality in the immediate vicinity of the boundary of the "drip drainfield," but is not considered to be serious groundwater contamination issue or a health concern to the local community.

Chloride levels in the Church Well diminished between the first sampling round and the second and this parameter is presently not a cause for concern; however, EGGI recommends continued monitoring of this Well. Arsenic in the Church Well (0.013 milligrams per liter, mg/l) just barely exceeds the Virginia Drinking Water MCL of 0.010 mg/l. EGGI recommends the Church consider a point-of-use treatment system or providing bottled water for people consuming this water on a frequent, ongoing basis. A separate letter has been prepared and will be sent to you and the Church under separate cover that provides notification of the arsenic detection.

I hope you find the information contained herein responsive to your needs. If you have any questions, please do not hesitate to contact me.

Best regards,



Ken Hardcastle, Ph.D., P.G.
Senior Structural Geologist

Emery & Garrett Groundwater, Inc.

FIGURE

TABLE

Table I
Groundwater Chemistry Results at the Warrenton-Fauquier Airport, Fauquier County, Virginia

Well ID	Sampling Date	Specific Conductance (umhos/cm)	Total Suspended Solids (mg/l)	Nitrate (mg/l)	TKN (mg/l)	Ammonia (mg/l)	Chloride (mg/l)	VOC Detected? (Yes or No)	Methylene Chloride*** (ug/l)	Acetone (ug/l)	MtBE* (ug/l)	Field Data					
												Water Level (feet)	pH	Specific Conductance (mmhos/cm)	Redox (millivolts)	Temperature (Celsius)	Sampling Method
VA Drinking Water Standard (MCL):		NA	NA	10	NA	NA	NA		5								
Water Standard (SMCL):		NA	NA	NA	NA	NA	250										
VA GQS:		NA	NA	5	NA	0.025	NA						5.5-8.5				
FCA-1S	6/17/2010	433	11.0	< 0.1	1.16	< 0.1	12.4	No	< 0.17	< 0.8	< 0.25	2.42	7.3	445	-5.6	16.2	Bailer
	12/26/2010	----	971	4.4	1.67	< 0.10	6.6	No	< 2	< 10	< 4	12.27	7.1	442	-13.3	18.5	Bailer
FCA-1D	6/17/2010	574	29.0	0.271	0.723	0.387	9.12	Yes	0.77	1.41	< 0.25	18.05	7.3	578	-8.2	16.0	Submersible Pump
	12/27/2010	----	6.50	0.8	1.67	< 0.10	6.2	No	< 2	< 10	< 4	23.73	6.4	542	-3.0	15.5	Submersible Pump
FCA-2	6/17/2010	546	58.0	0.253	0.232	< 0.1	12.6	No	< 0.17	< 0.8	< 0.25	22.39	7.4	580	-10.0	17.2	Submersible Pump
	12/26/2010	----	110.0	< 0.5	0.84	< 0.10	15.0	No	< 2	< 10	< 4	25.40	7.1	606	-15.8	15.5	Submersible Pump
Church	6/17/2010	599	< 0.51	0.943	0.223	< 0.1	44.2	No	< 0.17	< 0.8	< 0.25	----	7.3	633	-6.3	18.3	Tap
	12/26/2010	----	< 1.00	0.8	1.12	< 0.10	20.0	No	< 2	< 10	< 4	----	7.3	569	-11.0	15.8	Tap
Airport	6/17/2010	581	< 0.51	0.151	0.19	< 0.1	11.0	Yes	< 0.17	< 0.8	1.98	----	7.2	627	3.3	18.5	Tap
	12/26/2010	----	< 1.00	< 0.5	1.40	< 0.10	8.6	No	< 2	< 10	< 4	----	6.8	488	0.2	19.2	Tap
Johnson	6/17/2010	587	< 0.51	0.291	0.15	< 0.1	13.8	No	< 0.17	< 0.8	< 0.25	----	7.2	628	-1.1	15.8	By-pass Treatment
	12/26/2010	----	< 1.00	< 0.5	1.40	< 0.10	9.7	No	< 2	< 10	< 4	----	7.2	556	-16.4	15.6	By-pass Treatment

---- = not tested

5 = Bold text and yellow highlight indicate a concentration exceeding Virginia Groundwater Quality Standards (VA GQS)**.

< = not detected

5 = Bold and underlined text with light orange highlight indicate a concentration exceeding EPA Secondary Maximum Contaminant Level Drinking Water Standards. There were no Secondary Maximum Contaminant Level Drinking Water Standards that were exceeded.

10 = Bold and italic text with dark orange highlight indicate a concentration exceeding Virginia DEQ zero tolerance policy for MtBE*.

* DEQ has 'Zero Tolerance' policy for MtBE detected in private and / or monitoring wells. Any level of any petroleum contamination (including MtBE) should be reported to the DEQ. The DEQ will determine whether further action is required. In this case, due to the very low levels of MtBE detected, it is very unlikely that any action will be required. However, further monitoring of this well is recommended.

** Virginia Groundwater Quality Standards (VA GQS) is a measure by which the State assesses whether impacts to groundwater quality have occurred. These standards are not equivalent to EPA Drinking Water Standards (9-VAC-280-10 et seq Groundwater Standards - State Water Control Board).

MCL = Primary Maximum Contaminant Level.

SMCL = Secondary Maximum Contaminant Level.

***Methylene Chloride is also known as dichloromethane.

APPENDIX A
WATER QUALITY ANALYSES

NATIONAL TESTING LABORATORIES, LTD.

Emery & Garrett Groundwater, Inc.

Informational Water Quality Report

Watercheck w/PO



6571 Wilson Mills Rd
Cleveland, Ohio 44143
1-800-458-3330

Client:

Ordered By:

Emery & Garrett
56 Main Street
PO Box 1578
Meredith, NH 03253
ATTN: Brenda Rodriguez

Sample Number: 815810

Location: FCA-1S

Type of Water: Well Water

Collection Date and Time: 10/26/2010 16:30

Received Date and Time: 10/28/2010 11:15

Date Completed: 11/12/2010

Mets filtered

Definition and Legend

This informational water quality report compares the actual test result to national standards as defined in the EPA's Primary and Secondary Drinking Water Regulations.

Primary Standards: Are expressed as the maximum contaminant level (MCL) which is the highest level of contaminant that is allowed in drinking water. MCLs are enforceable standards.

Secondary standards: Are non-enforceable guidelines regulating contaminants that may cause cosmetic effects (such as skin or tooth discoloration) or aesthetic effects (such as taste, odor, or color) in drinking water. Individual states may choose to adopt them as enforceable standards.

Action levels: Are defined in treatment techniques which are required processes intended to reduce the level of a contaminant in drinking water.

mg/L (ppm): Unless otherwise indicated, results and standards are expressed as an amount in milligrams per liter or parts per million.

Minimum Detection Level (MDL): The lowest level that the laboratory can detect a contaminant.

ND: The contaminant was not detected above the minimum detection level.

NA: The contaminant was not analyzed.

 The contaminant was not detected in the sample above the minimum detection level.

 The contaminant was detected at or above the minimum detection level, but not above the referenced standard.

 The contaminant was detected above the standard, which is not an EPA enforceable MCL.

 The contaminant was detected above the EPA enforceable MCL.

 These results may be invalid.

Status	Contaminant	Results	Units	National Standards	Min. Detection Level
Microbiologicals					
	Total Coliform by P/A	No bacteria sample was submitted.			
Inorganic Analytes - Metals					
✓	Aluminum	ND	mg/L	0.2 EPA Secondary	0.1
✓	Arsenic	ND	mg/L	0.01 EPA Primary	0.005
✓	Barium	ND	mg/L	2 EPA Primary	0.30
✓	Cadmium	ND	mg/L	0.005 EPA Primary	0.002
●	Calcium	68.6	mg/L	–	2.0
✓	Chromium	ND	mg/L	0.1 EPA Primary	0.010
●	Copper	0.004	mg/L	1.3 EPA Action Level	0.004
✓	Iron	ND	mg/L	0.3 EPA Secondary	0.020
✓	Lead	ND	mg/L	0.015 EPA Action Level	0.002
●	Magnesium	18.40	mg/L	–	0.10
●	Manganese	0.022	mg/L	0.05 EPA Secondary	0.004
✓	Mercury	ND	mg/L	0.002 EPA Primary	0.001
✓	Nickel	ND	mg/L	–	0.020
●	Potassium	1.4	mg/L	–	1.0
✓	Selenium	ND	mg/L	0.05 EPA Primary	0.020
●	Silica	21.100	mg/L	–	0.100
✓	Silver	ND	mg/L	–	0.002
●	Sodium	14	mg/L	–	1
●	Zinc	0.008	mg/L	5 EPA Secondary	0.004
Physical Factors					
●	Alkalinity (Total)	160	mg/L	–	20
△	Hardness	250	mg/L	100 NTL Internal	10
✓	pH	7.4	pH Units	6.5 to 8.5 EPA Secondary	
●	Total Dissolved Solids	250	mg/L	500 EPA Secondary	20
●	Turbidity	0.1	NTU	1 EPA Action Level	0.1

Status	Contaminant	Results	Units	National Standards	Min. Detection Level
Inorganic Analytes - Other					
●	Chloride	6.6	mg/L	250	EPA Secondary 5.0
✓	Fluoride	ND	mg/L	4	EPA Primary 0.5
●	Nitrate as N	4.4	mg/L	10	EPA Primary 0.5
✓	Nitrite as N	ND	mg/L	1	EPA Primary 0.5
✓	Ortho Phosphate	ND	mg/L	--	2.0
●	Sulfate	18.0	mg/L	250	EPA Secondary 5.0
Organic Analytes - Trihalomethanes					
✓	Bromodichloromethane	ND	mg/L	--	0.002
✓	Bromoform	ND	mg/L	--	0.004
✓	Chloroform	ND	mg/L	--	0.002
✓	Dibromochloromethane	ND	mg/L	--	0.004
✓	Total THMs	ND	mg/L	0.08	EPA Primary 0.002
Organic Analytes - Volatiles					
✓	1,1,1,2-Tetrachloroethane	ND	mg/L	--	0.002
✓	1,1,1-Trichloroethane	ND	mg/L	0.2	EPA Primary 0.001
✓	1,1,2,2-Tetrachloroethane	ND	mg/L	--	0.002
✓	1,1,2-Trichloroethane	ND	mg/L	0.005	EPA Primary 0.002
✓	1,1-Dichloroethane	ND	mg/L	--	0.002
✓	1,1-Dichloroethene	ND	mg/L	0.007	EPA Primary 0.001
✓	1,1-Dichloropropene	ND	mg/L	--	0.002
✓	1,2,3-Trichlorobenzene	ND	mg/L	--	0.002
✓	1,2,3-Trichloropropane	ND	mg/L	--	0.002
✓	1,2,4-Trichlorobenzene	ND	mg/L	0.07	EPA Primary 0.002
✓	1,2-Dichlorobenzene	ND	mg/L	0.6	EPA Primary 0.001
✓	1,2-Dichloroethane	ND	mg/L	0.005	EPA Primary 0.001
✓	1,2-Dichloropropane	ND	mg/L	0.005	EPA Primary 0.002
✓	1,3-Dichlorobenzene	ND	mg/L	--	0.001

Status	Contaminant	Results	Units	National Standards		Min. Detection Level
✓	1,3-Dichloropropane	ND	mg/L	--		0.002
✓	1,4-Dichlorobenzene	ND	mg/L	0.075	EPA Primary	0.001
✓	2,2-Dichloropropane	ND	mg/L	--		0.002
✓	2-Chlorotoluene	ND	mg/L	--		0.001
✓	4-Chlorotoluene	ND	mg/L	--		0.001
✓	Acetone	ND	mg/L	--		0.01
✓	Benzene	ND	mg/L	0.005	EPA Primary	0.001
✓	Bromobenzene	ND	mg/L	--		0.002
✓	Bromomethane	ND	mg/L	--		0.002
✓	Carbon Tetrachloride	ND	mg/L	0.005	EPA Primary	0.001
✓	Chlorobenzene	ND	mg/L	0.1	EPA Primary	0.001
✓	Chloroethane	ND	mg/L	--		0.002
✓	Chloromethane	ND	mg/L	--		0.002
✓	cis-1,2-Dichloroethene	ND	mg/L	0.07	EPA Primary	0.002
✓	cis-1,3-Dichloropropene	ND	mg/L	--		0.002
✓	DBCP	ND	mg/L	--		0.001
✓	Dibromomethane	ND	mg/L	--		0.002
✓	Dichlorodifluoromethane	ND	mg/L	--		0.002
✓	Dichloromethane	ND	mg/L	0.005	EPA Primary	0.002
✓	EDB	ND	mg/L	--		0.001
✓	Ethylbenzene	ND	mg/L	0.7	EPA Primary	0.001
✓	Methyl Tert Butyl Ether	ND	mg/L	--		0.004
✓	Methyl-Ethyl Ketone	ND	mg/L	--		0.01
✓	Styrene	ND	mg/L	0.1	EPA Primary	0.001
✓	Tetrachloroethene	ND	mg/L	0.005	EPA Primary	0.002
✓	Tetrahydrofuran	ND	mg/L	--		0.01
✓	Toluene	ND	mg/L	1	EPA Primary	0.001
✓	trans-1,2-Dichloroethene	ND	mg/L	0.1	EPA Primary	0.002

Status	Contaminant	Results	Units	National Standards		Min. Detection Level
✓	trans-1,3-Dichloropropene	ND	mg/L	--		0.002
✓	Trichloroethene	ND	mg/L	0.005	EPA Primary	0.001
✓	Trichlorofluoromethane	ND	mg/L	--		0.002
✓	Vinyl Chloride	ND	mg/L	0.002	EPA Primary	0.001
✓	Xylenes (Total)	ND	mg/L	10	EPA Primary	0.001
Organic Analytes - Others						
✓	2,4-D	ND	mg/L	0.07	EPA Primary	0.010
✓	Alachlor	ND	mg/L	0.002	EPA Primary	0.001
✓	Aldrin	ND	mg/L	--		0.002
✓	Atrazine	ND	mg/L	0.003	EPA Primary	0.002
✓	Chlordane	ND	mg/L	0.002	EPA Primary	0.001
✓	Dichloran	ND	mg/L	--		0.002
✓	Dieldrin	ND	mg/L	--		0.001
✓	Endrin	ND	mg/L	0.002	EPA Primary	0.0001
✓	Heptachlor	ND	mg/L	0.0004	EPA Primary	0.0004
✓	Heptachlor Epoxide	ND	mg/L	0.0002	EPA Primary	0.0001
✓	Hexachlorobenzene	ND	mg/L	0.001	EPA Primary	0.0005
✓	Hexachlorocyclopentadiene	ND	mg/L	0.05	EPA Primary	0.001
✓	Lindane	ND	mg/L	0.0002	EPA Primary	0.0002
✓	Methoxychlor	ND	mg/L	0.04	EPA Primary	0.002
✓	PCB	ND	mg/L	0.0005	EPA Primary	0.0005
✓	Pentachloronitrobenzene	ND	mg/L	--		0.002
✓	Silvex 2,4,5-TP	ND	mg/L	0.05	EPA Primary	0.005
✓	Simazine	ND	mg/L	0.004	EPA Primary	0.002
✓	Toxaphene	ND	mg/L	0.003	EPA Primary	0.001
✓	Trifluralin	ND	mg/L	--		0.002

Status	Contaminant	Results	Units	National Standards	Min. Detection Level
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We certify that the analyses performed for this report are accurate, and that the laboratory test were conducted by methods approved by the U.S. Environmental Protection Agency or variations of these EPA methods.

These test results are intended to be used for informational purposes only and may not be used for regulatory compliance.

National Testing Laboratories, Ltd.

NATIONAL TESTING LABORATORIES, LTD

Informational Water Quality Report


**National Testing
Laboratories, Ltd.**

Quality Water Analysis

 6571 Wilson Mills Rd
 Cleveland, Ohio 44143
 1-800-458-3330

Watercheck w/PO

Client:

--

Ordered By:

Emery & Garrett 56 Main Street PO Box 1578 Meredith, NH 03253 ATTN: Brenda Rodriguez
--

Sample Number: 815811

Location: FCA-1D

Type of Water: Well Water

Collection Date and Time: 10/26/2010 13:00

Received Date and Time: 10/28/2010 11:15

Date Completed: 11/12/2010

Metals filtered

Definition and Legend

This informational water quality report compares the actual test result to national standards as defined in the EPA's Primary and Secondary Drinking Water Regulations.

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Action levels: Are defined in treatment techniques which are required processes intended to reduce the level of a contaminant in drinking water.

mg/L (ppm): Unless otherwise indicated, results and standards are expressed as an amount in milligrams per liter or parts per million.

Minimum Detection Level (MDL): The lowest level that the laboratory can detect a contaminant.

ND: The contaminant was not detected above the minimum detection level.

NA: The contaminant was not analyzed.



The contaminant was not detected in the sample above the minimum detection level.



The contaminant was detected at or above the minimum detection level, but not above the referenced standard.



The contaminant was detected above the standard, which is not an EPA enforceable MCL.



The contaminant was detected above the EPA enforceable MCL.



These results may be invalid.

Status	Contaminant	Results	Units	National Standards	Min. Detection Level
Microbiologicals					
	Total Coliform by P/A	No bacteria sample was submitted.			
Inorganic Analytes - Metals					
✓	Aluminum	ND	mg/L	0.2	EPA Secondary 0.1
✓	Arsenic	ND	mg/L	0.01	EPA Primary 0.005
●	Barium	0.37	mg/L	2	EPA Primary 0.30
✓	Cadmium	ND	mg/L	0.005	EPA Primary 0.002
●	Calcium	76.1	mg/L	--	2.0
✓	Chromium	ND	mg/L	0.1	EPA Primary 0.010
✓	Copper	ND	mg/L	1.3	EPA Action Level 0.004
✓	Iron	ND	mg/L	0.3	EPA Secondary 0.020
✓	Lead	ND	mg/L	0.015	EPA Action Level 0.002
●	Magnesium	29.80	mg/L	--	0.10
●	Manganese	0.005	mg/L	0.05	EPA Secondary 0.004
✓	Mercury	ND	mg/L	0.002	EPA Primary 0.001
✓	Nickel	ND	mg/L	--	0.020
●	Potassium	1.2	mg/L	--	1.0
✓	Selenium	ND	mg/L	0.05	EPA Primary 0.020
●	Silica	31.500	mg/L	--	0.100
●	Silver	0.002	mg/L	--	0.002
●	Sodium	26	mg/L	--	1
●	Zinc	0.022	mg/L	5	EPA Secondary 0.004
Physical Factors					
●	Alkalinity (Total)	260	mg/L	--	20
△	Hardness	310	mg/L	100	NTL Internal 10
✓	pH	7.4	pH Units	6.5 to 8.5	EPA Secondary
●	Total Dissolved Solids	330	mg/L	500	EPA Secondary 20
●	Turbidity	0.7	NTU	1	EPA Action Level 0.1

Status	Contaminant	Results	Units	National Standards	Min. Detection Level
Inorganic Analytes - Other					
●	Chloride	6.2	mg/L	250	EPA Secondary 5.0
✓	Fluoride	ND	mg/L	4	EPA Primary 0.5
●	Nitrate as N	0.8	mg/L	10	EPA Primary 0.5
✓	Nitrite as N	ND	mg/L	1	EPA Primary 0.5
✓	Ortho Phosphate	ND	mg/L	--	2.0
✓	Sulfate	ND	mg/L	250	EPA Secondary 5.0
Organic Analytes - Trihalomethanes					
✓	Bromodichloromethane	ND	mg/L	--	0.002
✓	Bromoform	ND	mg/L	--	0.004
✓	Chloroform	ND	mg/L	--	0.002
✓	Dibromochloromethane	ND	mg/L	--	0.004
✓	Total THMs	ND	mg/L	0.08	EPA Primary 0.002
Organic Analytes - Volatiles					
✓	1,1,1,2-Tetrachloroethane	ND	mg/L	--	0.002
✓	1,1,1-Trichloroethane	ND	mg/L	0.2	EPA Primary 0.001
✓	1,1,2,2-Tetrachloroethane	ND	mg/L	--	0.002
✓	1,1,2-Trichloroethane	ND	mg/L	0.005	EPA Primary 0.002
✓	1,1-Dichloroethane	ND	mg/L	--	0.002
✓	1,1-Dichloroethene	ND	mg/L	0.007	EPA Primary 0.001
✓	1,1-Dichloropropene	ND	mg/L	--	0.002
✓	1,2,3-Trichlorobenzene	ND	mg/L	--	0.002
✓	1,2,3-Trichloropropane	ND	mg/L	--	0.002
✓	1,2,4-Trichlorobenzene	ND	mg/L	0.07	EPA Primary 0.002
✓	1,2-Dichlorobenzene	ND	mg/L	0.6	EPA Primary 0.001
✓	1,2-Dichloroethane	ND	mg/L	0.005	EPA Primary 0.001
✓	1,2-Dichloropropane	ND	mg/L	0.005	EPA Primary 0.002
✓	1,3-Dichlorobenzene	ND	mg/L	--	0.001

Status	Contaminant	Results	Units	National Standards	Min. Detection Level
✓	1,3-Dichloropropane	ND	mg/L	–	0.002
✓	1,4-Dichlorobenzene	ND	mg/L	0.075 EPA Primary	0.001
✓	2,2-Dichloropropane	ND	mg/L	–	0.002
✓	2-Chlorotoluene	ND	mg/L	–	0.001
✓	4-Chlorotoluene	ND	mg/L	–	0.001
✓	Acetone	ND	mg/L	–	0.01
✓	Benzene	ND	mg/L	0.005 EPA Primary	0.001
✓	Bromobenzene	ND	mg/L	–	0.002
✓	Bromomethane	ND	mg/L	–	0.002
✓	Carbon Tetrachloride	ND	mg/L	0.005 EPA Primary	0.001
✓	Chlorobenzene	ND	mg/L	0.1 EPA Primary	0.001
✓	Chloroethane	ND	mg/L	–	0.002
✓	Chloromethane	ND	mg/L	–	0.002
✓	cis-1,2-Dichloroethene	ND	mg/L	0.07 EPA Primary	0.002
✓	cis-1,3-Dichloropropene	ND	mg/L	–	0.002
✓	DBCP	ND	mg/L	–	0.001
✓	Dibromomethane	ND	mg/L	–	0.002
✓	Dichlorodifluoromethane	ND	mg/L	–	0.002
✓	Dichloromethane	ND	mg/L	0.005 EPA Primary	0.002
✓	EDB	ND	mg/L	–	0.001
✓	Ethylbenzene	ND	mg/L	0.7 EPA Primary	0.001
✓	Methyl Tert Butyl Ether	ND	mg/L	–	0.004
✓	Methyl-Ethyl Ketone	ND	mg/L	–	0.01
✓	Styrene	ND	mg/L	0.1 EPA Primary	0.001
✓	Tetrachloroethene	ND	mg/L	0.005 EPA Primary	0.002
✓	Tetrahydrofuran	ND	mg/L	–	0.01
✓	Toluene	ND	mg/L	1 EPA Primary	0.001
✓	trans-1,2-Dichloroethene	ND	mg/L	0.1 EPA Primary	0.002

Status	Contaminant	Results	Units	National Standards		Min. Detection Level
✓	trans-1,3-Dichloropropene	ND	mg/L	--		0.002
✓	Trichloroethene	ND	mg/L	0.005	EPA Primary	0.001
✓	Trichlorofluoromethane	ND	mg/L	--		0.002
✓	Vinyl Chloride	ND	mg/L	0.002	EPA Primary	0.001
✓	Xylenes (Total)	ND	mg/L	10	EPA Primary	0.001
Organic Analytes - Others						
✓	2,4-D	ND	mg/L	0.07	EPA Primary	0.010
✓	Alachlor	ND	mg/L	0.002	EPA Primary	0.001
✓	Aldrin	ND	mg/L	--		0.002
✓	Atrazine	ND	mg/L	0.003	EPA Primary	0.002
✓	Chlordane	ND	mg/L	0.002	EPA Primary	0.001
✓	Dichloran	ND	mg/L	--		0.002
✓	Dieldrin	ND	mg/L	--		0.001
✓	Endrin	ND	mg/L	0.002	EPA Primary	0.0001
✓	Heptachlor	ND	mg/L	0.0004	EPA Primary	0.0004
✓	Heptachlor Epoxide	ND	mg/L	0.0002	EPA Primary	0.0001
✓	Hexachlorobenzene	ND	mg/L	0.001	EPA Primary	0.0005
✓	Hexachlorocyclopentadiene	ND	mg/L	0.05	EPA Primary	0.001
✓	Lindane	ND	mg/L	0.0002	EPA Primary	0.0002
✓	Methoxychlor	ND	mg/L	0.04	EPA Primary	0.002
✓	PCB	ND	mg/L	0.0005	EPA Primary	0.0005
✓	Pentachloronitrobenzene	ND	mg/L	--		0.002
✓	Silvex 2,4,5-TP	ND	mg/L	0.05	EPA Primary	0.005
✓	Simazine	ND	mg/L	0.004	EPA Primary	0.002
✓	Toxaphene	ND	mg/L	0.003	EPA Primary	0.001
✓	Trifluralin	ND	mg/L	--		0.002

Status	Contaminant	Results	Units	National Standards	Min. Detection Level
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We certify that the analyses performed for this report are accurate, and that the laboratory test were conducted by methods approved by the U.S. Environmental Protection Agency or variations of these EPA methods.

These test results are intended to be used for informational purposes only and may not be used for regulatory compliance.

National Testing Laboratories, Ltd.

NATIONAL TESTING LABORATORIES, LTD

Informational Water Quality Report

Watercheck w/PO



6571 Wilson Mills Rd
Cleveland, Ohio 44143
1-800-458-3330

Client:

Ordered By:

Emery & Garrett
56 Main Street
PO Box 1578
Meredith, NH 03253
ATTN: Brenda Rodriguez

Sample Number: 815807

Location: FCA-2

Type of Water: Well Water

Collection Date and Time: 10/26/2010 11:50

Received Date and Time: 10/28/2010 11:15

Date Completed: 11/11/2010

Mets filtered

Definition and Legend

This informational water quality report compares the actual test result to national standards as defined in the EPA's Primary and Secondary Drinking Water Regulations.

Primary Standards: Are expressed as the maximum contaminant level (MCL) which is the highest level of contaminant that is allowed in drinking water. MCLs are enforceable standards.

Secondary standards: Are non-enforceable guidelines regulating contaminants that may cause cosmetic effects (such as skin or tooth discoloration) or aesthetic effects (such as taste, odor, or color) in drinking water. Individual states may choose to adopt them as enforceable standards.

Action levels: Are defined in treatment techniques which are required processes intended to reduce the level of a contaminant in drinking water.

mg/L (ppm): Unless otherwise indicated, results and standards are expressed as an amount in milligrams per liter or parts per million.

Minimum Detection Level (MDL): The lowest level that the laboratory can detect a contaminant.

ND: The contaminant was not detected above the minimum detection level.

NA: The contaminant was not analyzed.

 The contaminant was not detected in the sample above the minimum detection level.

 The contaminant was detected at or above the minimum detection level, but not above the referenced standard.

 The contaminant was detected above the standard, which is not an EPA enforceable MCL.

 The contaminant was detected above the EPA enforceable MCL.

 These results may be invalid.

Status	Contaminant	Results	Units	National Standards	Min. Detection Level
Microbiologicals					
	Total Coliform by P/A	No bacteria sample was submitted.			
Inorganic Analytes - Metals					
✓	Aluminum	ND	mg/L	0.2	EPA Secondary 0.1
✓	Arsenic	ND	mg/L	0.01	EPA Primary 0.005
●	Barium	0.46	mg/L	2	EPA Primary 0.30
✓	Cadmium	ND	mg/L	0.005	EPA Primary 0.002
●	Calcium	74.2	mg/L	–	2.0
✓	Chromium	ND	mg/L	0.1	EPA Primary 0.010
●	Copper	0.005	mg/L	1.3	EPA Action Level 0.004
●	Iron	0.028	mg/L	0.3	EPA Secondary 0.020
✓	Lead	ND	mg/L	0.015	EPA Action Level 0.002
●	Magnesium	44.70	mg/L	–	0.10
●	Manganese	0.018	mg/L	0.05	EPA Secondary 0.004
✓	Mercury	ND	mg/L	0.002	EPA Primary 0.001
●	Nickel	0.020	mg/L	–	0.020
●	Potassium	1.9	mg/L	–	1.0
✓	Selenium	ND	mg/L	0.05	EPA Primary 0.020
●	Silica	32.600	mg/L	–	0.100
✓	Silver	ND	mg/L	–	0.002
●	Sodium	30	mg/L	–	1
●	Zinc	0.080	mg/L	5	EPA Secondary 0.004
Physical Factors					
●	Alkalinity (Total)	350	mg/L	–	20
△	Hardness	370	mg/L	100	NTL Internal 10
✓	pH	7.3	pH Units	6.5 to 8.5	EPA Secondary
●	Total Dissolved Solids	410	mg/L	500	EPA Secondary 20
●	Turbidity	0.1	NTU	1	EPA Action Level 0.1

Status	Contaminant	Results	Units	National Standards	Min. Detection Level
Inorganic Analytes - Other					
●	Chloride	15.0	mg/L	250	EPA Secondary 5.0
✓	Fluoride	ND	mg/L	4	EPA Primary 0.5
✓	Nitrate as N	ND	mg/L	10	EPA Primary 0.5
✓	Nitrite as N	ND	mg/L	1	EPA Primary 0.5
✓	Ortho Phosphate	ND	mg/L	--	2.0
✓	Sulfate	ND	mg/L	250	EPA Secondary 5.0
Organic Analytes - Trihalomethanes					
✓	Bromodichloromethane	ND	mg/L	--	0.002
✓	Bromoform	ND	mg/L	--	0.004
✓	Chloroform	ND	mg/L	--	0.002
✓	Dibromochloromethane	ND	mg/L	--	0.004
✓	Total THMs	ND	mg/L	0.08	EPA Primary 0.002
Organic Analytes - Volatiles					
✓	1,1,1,2-Tetrachloroethane	ND	mg/L	--	0.002
✓	1,1,1-Trichloroethane	ND	mg/L	0.2	EPA Primary 0.001
✓	1,1,2,2-Tetrachloroethane	ND	mg/L	--	0.002
✓	1,1,2-Trichloroethane	ND	mg/L	0.005	EPA Primary 0.002
✓	1,1-Dichloroethane	ND	mg/L	--	0.002
✓	1,1-Dichloroethene	ND	mg/L	0.007	EPA Primary 0.001
✓	1,1-Dichloropropene	ND	mg/L	--	0.002
✓	1,2,3-Trichlorobenzene	ND	mg/L	--	0.002
✓	1,2,3-Trichloropropane	ND	mg/L	--	0.002
✓	1,2,4-Trichlorobenzene	ND	mg/L	0.07	EPA Primary 0.002
✓	1,2-Dichlorobenzene	ND	mg/L	0.6	EPA Primary 0.001
✓	1,2-Dichloroethane	ND	mg/L	0.005	EPA Primary 0.001
✓	1,2-Dichloropropane	ND	mg/L	0.005	EPA Primary 0.002
✓	1,3-Dichlorobenzene	ND	mg/L	--	0.001

Status	Contaminant	Results	Units	National Standards		Min. Detection Level
✓	1,3-Dichloropropane	ND	mg/L	–		0.002
✓	1,4-Dichlorobenzene	ND	mg/L	0.075	EPA Primary	0.001
✓	2,2-Dichloropropane	ND	mg/L	–		0.002
✓	2-Chlorotoluene	ND	mg/L	–		0.001
✓	4-Chlorotoluene	ND	mg/L	–		0.001
✓	Acetone	ND	mg/L	–		0.01
✓	Benzene	ND	mg/L	0.005	EPA Primary	0.001
✓	Bromobenzene	ND	mg/L	–		0.002
✓	Bromomethane	ND	mg/L	–		0.002
✓	Carbon Tetrachloride	ND	mg/L	0.005	EPA Primary	0.001
✓	Chlorobenzene	ND	mg/L	0.1	EPA Primary	0.001
✓	Chloroethane	ND	mg/L	–		0.002
✓	Chloromethane	ND	mg/L	–		0.002
✓	cis-1,2-Dichloroethene	ND	mg/L	0.07	EPA Primary	0.002
✓	cis-1,3-Dichloropropene	ND	mg/L	–		0.002
✓	DBCP	ND	mg/L	–		0.001
✓	Dibromomethane	ND	mg/L	–		0.002
✓	Dichlorodifluoromethane	ND	mg/L	–		0.002
✓	Dichloromethane	ND	mg/L	0.005	EPA Primary	0.002
✓	EDB	ND	mg/L	–		0.001
✓	Ethylbenzene	ND	mg/L	0.7	EPA Primary	0.001
✓	Methyl Tert Butyl Ether	ND	mg/L	–		0.004
✓	Methyl-Ethyl Ketone	ND	mg/L	–		0.01
✓	Styrene	ND	mg/L	0.1	EPA Primary	0.001
✓	Tetrachloroethene	ND	mg/L	0.005	EPA Primary	0.002
✓	Tetrahydrofuran	ND	mg/L	–		0.01
✓	Toluene	ND	mg/L	1	EPA Primary	0.001
✓	trans-1,2-Dichloroethene	ND	mg/L	0.1	EPA Primary	0.002

Status	Contaminant	Results	Units	National Standards		Min. Detection Level
✓	trans-1,3-Dichloropropene	ND	mg/L	--		0.002
✓	Trichloroethene	ND	mg/L	0.005	EPA Primary	0.001
✓	Trichlorofluoromethane	ND	mg/L	--		0.002
✓	Vinyl Chloride	ND	mg/L	0.002	EPA Primary	0.001
✓	Xylenes (Total)	ND	mg/L	10	EPA Primary	0.001
Organic Analytes - Others						
✓	2,4-D	ND	mg/L	0.07	EPA Primary	0.010
✓	Alachlor	ND	mg/L	0.002	EPA Primary	0.001
✓	Aldrin	ND	mg/L	--		0.002
✓	Atrazine	ND	mg/L	0.003	EPA Primary	0.002
✓	Chlordane	ND	mg/L	0.002	EPA Primary	0.001
✓	Dichloran	ND	mg/L	--		0.002
✓	Dieldrin	ND	mg/L	--		0.001
✓	Endrin	ND	mg/L	0.002	EPA Primary	0.0001
✓	Heptachlor	ND	mg/L	0.0004	EPA Primary	0.0004
✓	Heptachlor Epoxide	ND	mg/L	0.0002	EPA Primary	0.0001
✓	Hexachlorobenzene	ND	mg/L	0.001	EPA Primary	0.0005
✓	Hexachlorocyclopentadiene	ND	mg/L	0.05	EPA Primary	0.001
✓	Lindane	ND	mg/L	0.0002	EPA Primary	0.0002
✓	Methoxychlor	ND	mg/L	0.04	EPA Primary	0.002
✓	PCB	ND	mg/L	0.0005	EPA Primary	0.0005
✓	Pentachloronitrobenzene	ND	mg/L	--		0.002
✓	Silvex 2,4,5-TP	ND	mg/L	0.05	EPA Primary	0.005
✓	Simazine	ND	mg/L	0.004	EPA Primary	0.002
✓	Toxaphene	ND	mg/L	0.003	EPA Primary	0.001
✓	Trifluralin	ND	mg/L	--		0.002

Status	Contaminant	Results	Units	National Standards	Min. Detection Level
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We certify that the analyses performed for this report are accurate, and that the laboratory test were conducted by methods approved by the U.S. Environmental Protection Agency or variations of these EPA methods.

These test results are intended to be used for informational purposes only and may not be used for regulatory compliance.

National Testing Laboratories, Ltd.

NATIONAL TESTING LABORATORIES, LTD

Informational Water Quality Report

Watercheck w/PO

 **National Testing
Laboratories, Ltd.**


Quality Water Analysis

6571 Wilson Mills Rd
Cleveland, Ohio 44143
1-800-458-3330

Client:

Ordered By:
Emery & Garrett 56 Main Street PO Box 1578 Meredith, NH 03253 ATTN: Brenda Rodriguez

Sample Number: 815809

Location: FCA-Church

Type of Water: Well Water

Collection Date and Time: 10/26/2010 12:40

Received Date and Time: 10/28/2010 11:15

Date Completed: 11/12/2010

No mets filtered

Definition and Legend

This informational water quality report compares the actual test result to national standards as defined in the EPA's Primary and Secondary Drinking Water Regulations.

Primary Standards: Are expressed as the maximum contaminant level (MCL) which is the highest level of contaminant that is allowed in drinking water. MCLs are enforceable standards.

Secondary standards: Are non-enforceable guidelines regulating contaminants that may cause cosmetic effects (such as skin or tooth discoloration) or aesthetic effects (such as taste, odor, or color) in drinking water. Individual states may choose to adopt them as enforceable standards.

Action levels: Are defined in treatment techniques which are required processes intended to reduce the level of a contaminant in drinking water.

mg/L (ppm): Unless otherwise indicated, results and standards are expressed as an amount in milligrams per liter or parts per million.

Minimum Detection Level (MDL): The lowest level that the laboratory can detect a contaminant.

ND: The contaminant was not detected above the minimum detection level.

NA: The contaminant was not analyzed.

✓ The contaminant was not detected in the sample above the minimum detection level.

● The contaminant was detected at or above the minimum detection level, but not above the referenced standard.

△ The contaminant was detected above the standard, which is not an EPA enforceable MCL.

⊕ The contaminant was detected above the EPA enforceable MCL.

⊗ These results may be invalid.

Status	Contaminant	Results	Units	National Standards	Min. Detection Level
Microbiologicals					
	Total Coliform by P/A	No bacteria sample was submitted.			
Inorganic Analytes - Metals					
✓	Aluminum	ND	mg/L	0.2	EPA Secondary 0.1
+	Arsenic	0.013	mg/L	0.01	EPA Primary 0.005
●	Barium	0.37	mg/L	2	EPA Primary 0.30
✓	Cadmium	ND	mg/L	0.005	EPA Primary 0.002
●	Calcium	66.3	mg/L	--	2.0
✓	Chromium	ND	mg/L	0.1	EPA Primary 0.010
●	Copper	0.014	mg/L	1.3	EPA Action Level 0.004
✓	Iron	ND	mg/L	0.3	EPA Secondary 0.020
✓	Lead	ND	mg/L	0.015	EPA Action Level 0.002
●	Magnesium	31.90	mg/L	--	0.10
●	Manganese	0.006	mg/L	0.05	EPA Secondary 0.004
✓	Mercury	ND	mg/L	0.002	EPA Primary 0.001
✓	Nickel	ND	mg/L	--	0.020
●	Potassium	1.5	mg/L	--	1.0
✓	Selenium	ND	mg/L	0.05	EPA Primary 0.020
●	Silica	27.400	mg/L	--	0.100
✓	Silver	ND	mg/L	--	0.002
●	Sodium	36	mg/L	--	1
●	Zinc	0.160	mg/L	5	EPA Secondary 0.004
Physical Factors					
●	Alkalinity (Total)	270	mg/L	--	20
△	Hardness	300	mg/L	100	NTL Internal 10
✓	pH	7.2	pH Units	6.5 to 8.5	EPA Secondary
●	Total Dissolved Solids	350	mg/L	500	EPA Secondary 20
●	Turbidity	0.1	NTU	1	EPA Action Level 0.1

Status	Contaminant	Results	Units	National Standards	Min. Detection Level
Inorganic Analytes - Other					
●	Chloride	20.0	mg/L	250	EPA Secondary 5.0
✓	Fluoride	ND	mg/L	4	EPA Primary 0.5
●	Nitrate as N	0.8	mg/L	10	EPA Primary 0.5
✓	Nitrite as N	ND	mg/L	1	EPA Primary 0.5
✓	Ortho Phosphate	ND	mg/L	--	2.0
●	Sulfate	7.2	mg/L	250	EPA Secondary 5.0
Organic Analytes - Trihalomethanes					
✓	Bromodichloromethane	ND	mg/L	--	0.002
✓	Bromoform	ND	mg/L	--	0.004
✓	Chloroform	ND	mg/L	--	0.002
✓	Dibromochloromethane	ND	mg/L	--	0.004
✓	Total THMs	ND	mg/L	0.08	EPA Primary 0.002
Organic Analytes - Volatiles					
✓	1,1,1,2-Tetrachloroethane	ND	mg/L	--	0.002
✓	1,1,1-Trichloroethane	ND	mg/L	0.2	EPA Primary 0.001
✓	1,1,2,2-Tetrachloroethane	ND	mg/L	--	0.002
✓	1,1,2-Trichloroethane	ND	mg/L	0.005	EPA Primary 0.002
✓	1,1-Dichloroethane	ND	mg/L	--	0.002
✓	1,1-Dichloroethene	ND	mg/L	0.007	EPA Primary 0.001
✓	1,1-Dichloropropene	ND	mg/L	--	0.002
✓	1,2,3-Trichlorobenzene	ND	mg/L	--	0.002
✓	1,2,3-Trichloropropane	ND	mg/L	--	0.002
✓	1,2,4-Trichlorobenzene	ND	mg/L	0.07	EPA Primary 0.002
✓	1,2-Dichlorobenzene	ND	mg/L	0.6	EPA Primary 0.001
✓	1,2-Dichloroethane	ND	mg/L	0.005	EPA Primary 0.001
✓	1,2-Dichloropropane	ND	mg/L	0.005	EPA Primary 0.002
✓	1,3-Dichlorobenzene	ND	mg/L	--	0.001

Status	Contaminant	Results	Units	National Standards		Min. Detection Level
✓	1,3-Dichloropropane	ND	mg/L	--		0.002
✓	1,4-Dichlorobenzene	ND	mg/L	0.075	EPA Primary	0.001
✓	2,2-Dichloropropane	ND	mg/L	--		0.002
✓	2-Chlorotoluene	ND	mg/L	--		0.001
✓	4-Chlorotoluene	ND	mg/L	--		0.001
✓	Acetone	ND	mg/L	--		0.01
✓	Benzene	ND	mg/L	0.005	EPA Primary	0.001
✓	Bromobenzene	ND	mg/L	--		0.002
✓	Bromomethane	ND	mg/L	--		0.002
✓	Carbon Tetrachloride	ND	mg/L	0.005	EPA Primary	0.001
✓	Chlorobenzene	ND	mg/L	0.1	EPA Primary	0.001
✓	Chloroethane	ND	mg/L	--		0.002
✓	Chloromethane	ND	mg/L	--		0.002
✓	cis-1,2-Dichloroethene	ND	mg/L	0.07	EPA Primary	0.002
✓	cis-1,3-Dichloropropene	ND	mg/L	--		0.002
✓	DBCP	ND	mg/L	--		0.001
✓	Dibromomethane	ND	mg/L	--		0.002
✓	Dichlorodifluoromethane	ND	mg/L	--		0.002
✓	Dichloromethane	ND	mg/L	0.005	EPA Primary	0.002
✓	EDB	ND	mg/L	--		0.001
✓	Ethylbenzene	ND	mg/L	0.7	EPA Primary	0.001
✓	Methyl Tert Butyl Ether	ND	mg/L	--		0.004
✓	Methyl-Ethyl Ketone	ND	mg/L	--		0.01
✓	Styrene	ND	mg/L	0.1	EPA Primary	0.001
✓	Tetrachloroethene	ND	mg/L	0.005	EPA Primary	0.002
✓	Tetrahydrofuran	ND	mg/L	--		0.01
✓	Toluene	ND	mg/L	1	EPA Primary	0.001
✓	trans-1,2-Dichloroethene	ND	mg/L	0.1	EPA Primary	0.002

Status	Contaminant	Results	Units	National Standards	Min. Detection Level
✓	trans-1,3-Dichloropropene	ND	mg/L	--	0.002
✓	Trichloroethene	ND	mg/L	0.005 EPA Primary	0.001
✓	Trichlorofluoromethane	ND	mg/L	--	0.002
✓	Vinyl Chloride	ND	mg/L	0.002 EPA Primary	0.001
✓	Xylenes (Total)	ND	mg/L	10 EPA Primary	0.001
Organic Analytes - Others					
✓	2,4-D	ND	mg/L	0.07 EPA Primary	0.010
✓	Alachlor	ND	mg/L	0.002 EPA Primary	0.001
✓	Aldrin	ND	mg/L	--	0.002
✓	Atrazine	ND	mg/L	0.003 EPA Primary	0.002
✓	Chlordane	ND	mg/L	0.002 EPA Primary	0.001
✓	Dichloran	ND	mg/L	--	0.002
✓	Dieldrin	ND	mg/L	--	0.001
✓	Endrin	ND	mg/L	0.002 EPA Primary	0.0001
✓	Heptachlor	ND	mg/L	0.0004 EPA Primary	0.0004
✓	Heptachlor Epoxide	ND	mg/L	0.0002 EPA Primary	0.0001
✓	Hexachlorobenzene	ND	mg/L	0.001 EPA Primary	0.0005
✓	Hexachlorocyclopentadiene	ND	mg/L	0.05 EPA Primary	0.001
✓	Lindane	ND	mg/L	0.0002 EPA Primary	0.0002
✓	Methoxychlor	ND	mg/L	0.04 EPA Primary	0.002
✓	PCB	ND	mg/L	0.0005 EPA Primary	0.0005
✓	Pentachloronitrobenzene	ND	mg/L	--	0.002
✓	Silvex 2,4,5-TP	ND	mg/L	0.05 EPA Primary	0.005
✓	Simazine	ND	mg/L	0.004 EPA Primary	0.002
✓	Toxaphene	ND	mg/L	0.003 EPA Primary	0.001
✓	Trifluralin	ND	mg/L	--	0.002

We certify that the analyses performed for this report are accurate, and that the laboratory test were conducted by methods approved by the U.S. Environmental Protection Agency or variations of these EPA methods.

These test results are intended to be used for informational purposes only and may not be used for regulatory compliance.

National Testing Laboratories, Ltd.

NATIONAL TESTING LABORATORIES, LTD

Informational Water Quality Report

Watercheck w/PO

Client:

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Ordered By:

Emery & Garrett
56 Main Street
PO Box 1578
Meredith, NH 03253
ATTN: Brenda Rodriguez

**National Testing
Laboratories, Ltd.**

Quality Water Analysis

6571 Wilson Mills Rd
Cleveland, Ohio 44143
1-800-458-3330

Sample Number: 815808

Location: FCA-Airport

Type of Water: Well Water

Collection Date and Time: 10/26/2010 15:30

Received Date and Time: 10/28/2010 11:15

Date Completed: 11/11/2010

No mets filtered

Definition and Legend

This informational water quality report compares the actual test result to national standards as defined in the EPA's Primary and Secondary Drinking Water Regulations.

Primary Standards: Are expressed as the maximum contaminant level (MCL) which is the highest level of contaminant that is allowed in drinking water. MCLs are enforceable standards.

Secondary standards: Are non-enforceable guidelines regulating contaminants that may cause cosmetic effects (such as skin or tooth discoloration) or aesthetic effects (such as taste, odor, or color) in drinking water. Individual states may choose to adopt them as enforceable standards.

Action levels: Are defined in treatment techniques which are required processes intended to reduce the level of a contaminant in drinking water.

mg/L (ppm): Unless otherwise indicated, results and standards are expressed as an amount in milligrams per liter or parts per million.

Minimum Detection Level (MDL): The lowest level that the laboratory can detect a contaminant.

ND: The contaminant was not detected above the minimum detection level.

NA: The contaminant was not analyzed.



The contaminant was not detected in the sample above the minimum detection level.



The contaminant was detected at or above the minimum detection level, but not above the referenced standard.



The contaminant was detected above the standard, which is not an EPA enforceable MCL.



The contaminant was detected above the EPA enforceable MCL.



These results may be invalid.

Status	Contaminant	Results	Units	National Standards	Min. Detection Level
Microbiologicals					
	Total Coliform by P/A	No bacteria sample was submitted.			
Inorganic Analytes - Metals					
●	Aluminum	0.1	mg/L	0.2	EPA Secondary 0.1
✓	Arsenic	ND	mg/L	0.01	EPA Primary 0.005
●	Barium	0.39	mg/L	2	EPA Primary 0.30
✓	Cadmium	ND	mg/L	0.005	EPA Primary 0.002
●	Calcium	102.0	mg/L	–	2.0
✓	Chromium	ND	mg/L	0.1	EPA Primary 0.010
●	Copper	0.077	mg/L	1.3	EPA Action Level 0.004
✓	Iron	ND	mg/L	0.3	EPA Secondary 0.020
✓	Lead	ND	mg/L	0.015	EPA Action Level 0.002
●	Magnesium	27.40	mg/L	–	0.10
●	Manganese	0.009	mg/L	0.05	EPA Secondary 0.004
✓	Mercury	ND	mg/L	0.002	EPA Primary 0.001
✓	Nickel	ND	mg/L	–	0.020
●	Potassium	1.0	mg/L	–	1.0
✓	Selenium	ND	mg/L	0.05	EPA Primary 0.020
●	Silica	32.100	mg/L	–	0.100
✓	Silver	ND	mg/L	–	0.002
●	Sodium	26	mg/L	–	1
●	Zinc	0.090	mg/L	5	EPA Secondary 0.004
Physical Factors					
●	Alkalinity (Total)	300	mg/L	–	20
△	Hardness	370	mg/L	100	NTL Internal 10
✓	pH	7.0	pH Units	6.5 to 8.5	EPA Secondary
●	Total Dissolved Solids	380	mg/L	500	EPA Secondary 20
✓	Turbidity	ND	NTU	1	EPA Action Level 0.1

Status	Contaminant	Results	Units	National Standards	Min. Detection Level
Inorganic Analytes - Other					
●	Chloride	8.6	mg/L	250	EPA Secondary 5.0
✓	Fluoride	ND	mg/L	4	EPA Primary 0.5
✓	Nitrate as N	ND	mg/L	10	EPA Primary 0.5
✓	Nitrite as N	ND	mg/L	1	EPA Primary 0.5
✓	Ortho Phosphate	ND	mg/L	--	2.0
●	Sulfate	5.4	mg/L	250	EPA Secondary 5.0
Organic Analytes - Trihalomethanes					
✓	Bromodichloromethane	ND	mg/L	--	0.002
✓	Bromoform	ND	mg/L	--	0.004
✓	Chloroform	ND	mg/L	--	0.002
✓	Dibromochloromethane	ND	mg/L	--	0.004
✓	Total THMs	ND	mg/L	0.08	EPA Primary 0.002
Organic Analytes - Volatiles					
✓	1,1,1,2-Tetrachloroethane	ND	mg/L	--	0.002
✓	1,1,1-Trichloroethane	ND	mg/L	0.2	EPA Primary 0.001
✓	1,1,2,2-Tetrachloroethane	ND	mg/L	--	0.002
✓	1,1,2-Trichloroethane	ND	mg/L	0.005	EPA Primary 0.002
✓	1,1-Dichloroethane	ND	mg/L	--	0.002
✓	1,1-Dichloroethene	ND	mg/L	0.007	EPA Primary 0.001
✓	1,1-Dichloropropene	ND	mg/L	--	0.002
✓	1,2,3-Trichlorobenzene	ND	mg/L	--	0.002
✓	1,2,3-Trichloropropane	ND	mg/L	--	0.002
✓	1,2,4-Trichlorobenzene	ND	mg/L	0.07	EPA Primary 0.002
✓	1,2-Dichlorobenzene	ND	mg/L	0.6	EPA Primary 0.001
✓	1,2-Dichloroethane	ND	mg/L	0.005	EPA Primary 0.001
✓	1,2-Dichloropropane	ND	mg/L	0.005	EPA Primary 0.002
✓	1,3-Dichlorobenzene	ND	mg/L	--	0.001

Status	Contaminant	Results	Units	National Standards	Min. Detection Level
✓	1,3-Dichloropropane	ND	mg/L	--	0.002
✓	1,4-Dichlorobenzene	ND	mg/L	0.075 EPA Primary	0.001
✓	2,2-Dichloropropane	ND	mg/L	--	0.002
✓	2-Chlorotoluene	ND	mg/L	--	0.001
✓	4-Chlorotoluene	ND	mg/L	--	0.001
✓	Acetone	ND	mg/L	--	0.01
✓	Benzene	ND	mg/L	0.005 EPA Primary	0.001
✓	Bromobenzene	ND	mg/L	--	0.002
✓	Bromomethane	ND	mg/L	--	0.002
✓	Carbon Tetrachloride	ND	mg/L	0.005 EPA Primary	0.001
✓	Chlorobenzene	ND	mg/L	0.1 EPA Primary	0.001
✓	Chloroethane	ND	mg/L	--	0.002
✓	Chloromethane	ND	mg/L	--	0.002
✓	cis-1,2-Dichloroethene	ND	mg/L	0.07 EPA Primary	0.002
✓	cis-1,3-Dichloropropene	ND	mg/L	--	0.002
✓	DBCP	ND	mg/L	--	0.001
✓	Dibromomethane	ND	mg/L	--	0.002
✓	Dichlorodifluoromethane	ND	mg/L	--	0.002
✓	Dichloromethane	ND	mg/L	0.005 EPA Primary	0.002
✓	EDB	ND	mg/L	--	0.001
✓	Ethylbenzene	ND	mg/L	0.7 EPA Primary	0.001
✓	Methyl Tert Butyl Ether	ND	mg/L	--	0.004
✓	Methyl-Ethyl Ketone	ND	mg/L	--	0.01
✓	Styrene	ND	mg/L	0.1 EPA Primary	0.001
✓	Tetrachloroethene	ND	mg/L	0.005 EPA Primary	0.002
✓	Tetrahydrofuran	ND	mg/L	--	0.01
✓	Toluene	ND	mg/L	1 EPA Primary	0.001
✓	trans-1,2-Dichloroethene	ND	mg/L	0.1 EPA Primary	0.002

Status	Contaminant	Results	Units	National Standards	Min. Detection Level
✓	trans-1,3-Dichloropropene	ND	mg/L	--	0.002
✓	Trichloroethene	ND	mg/L	0.005 EPA Primary	0.001
✓	Trichlorofluoromethane	ND	mg/L	--	0.002
✓	Vinyl Chloride	ND	mg/L	0.002 EPA Primary	0.001
✓	Xylenes (Total)	ND	mg/L	10 EPA Primary	0.001
Organic Analytes - Others					
✓	2,4-D	ND	mg/L	0.07 EPA Primary	0.010
✓	Alachlor	ND	mg/L	0.002 EPA Primary	0.001
✓	Aldrin	ND	mg/L	--	0.002
✓	Atrazine	ND	mg/L	0.003 EPA Primary	0.002
✓	Chlordane	ND	mg/L	0.002 EPA Primary	0.001
✓	Dichloran	ND	mg/L	--	0.002
✓	Dieldrin	ND	mg/L	--	0.001
✓	Endrin	ND	mg/L	0.002 EPA Primary	0.0001
✓	Heptachlor	ND	mg/L	0.0004 EPA Primary	0.0004
✓	Heptachlor Epoxide	ND	mg/L	0.0002 EPA Primary	0.0001
✓	Hexachlorobenzene	ND	mg/L	0.001 EPA Primary	0.0005
✓	Hexachlorocyclopentadiene	ND	mg/L	0.05 EPA Primary	0.001
✓	Lindane	ND	mg/L	0.0002 EPA Primary	0.0002
✓	Methoxychlor	ND	mg/L	0.04 EPA Primary	0.002
✓	PCB	ND	mg/L	0.0005 EPA Primary	0.0005
✓	Pentachloronitrobenzene	ND	mg/L	--	0.002
✓	Silvex 2,4,5-TP	ND	mg/L	0.05 EPA Primary	0.005
✓	Simazine	ND	mg/L	0.004 EPA Primary	0.002
✓	Toxaphene	ND	mg/L	0.003 EPA Primary	0.001
✓	Trifluralin	ND	mg/L	--	0.002

Status	Contaminant	Results	Units	National Standards	Min. Detection Level
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We certify that the analyses performed for this report are accurate, and that the laboratory test were conducted by methods approved by the U.S. Environmental Protection Agency or variations of these EPA methods.

These test results are intended to be used for informational purposes only and may not be used for regulatory compliance.

National Testing Laboratories, Ltd.

NATIONAL TESTING LABORATORIES, LTD

Informational Water Quality Report

Watercheck w/PO



6571 Wilson Mills Rd
Cleveland, Ohio 44143
1-800-458-3330

Client:

Ordered By:

Emery & Garrett
56 Main Street
PO Box 1578
Meredith, NH 03253
ATTN: Brenda Rodriguez

Sample Number: 815812

Location: FCA-Johnson

Type of Water: Well Water

Collection Date and Time: 10/26/2010 13:30

Received Date and Time: 10/28/2010 11:15

Date Completed: 11/12/2010

No mets filtered

Definition and Legend

This informational water quality report compares the actual test result to national standards as defined in the EPA's Primary and Secondary Drinking Water Regulations.

Primary Standards: Are expressed as the maximum contaminant level (MCL) which is the highest level of contaminant that is allowed in drinking water. MCLs are enforceable standards.

Secondary standards: Are non-enforceable guidelines regulating contaminants that may cause cosmetic effects (such as skin or tooth discoloration) or aesthetic effects (such as taste, odor, or color) in drinking water. Individual states may choose to adopt them as enforceable standards.

Action levels: Are defined in treatment techniques which are required processes intended to reduce the level of a contaminant in drinking water.

mg/L (ppm): Unless otherwise indicated, results and standards are expressed as an amount in milligrams per liter or parts per million.

Minimum Detection Level (MDL): The lowest level that the laboratory can detect a contaminant.

ND: The contaminant was not detected above the minimum detection level.

NA: The contaminant was not analyzed.

 The contaminant was not detected in the sample above the minimum detection level.

 The contaminant was detected at or above the minimum detection level, but not above the referenced standard.

 The contaminant was detected above the standard, which is not an EPA enforceable MCL.

 The contaminant was detected above the EPA enforceable MCL.

 These results may be invalid.

Status	Contaminant	Results	Units	National Standards	Min. Detection Level
Microbiologicals					
	Total Coliform by P/A	No bacteria sample was submitted.			
Inorganic Analytes - Metals					
✓	Aluminum	ND	mg/L	0.2 EPA Secondary	0.1
✓	Arsenic	ND	mg/L	0.01 EPA Primary	0.005
●	Barium	0.30	mg/L	2 EPA Primary	0.30
✓	Cadmium	ND	mg/L	0.005 EPA Primary	0.002
●	Calcium	76.1	mg/L	–	2.0
✓	Chromium	ND	mg/L	0.1 EPA Primary	0.010
✓	Copper	ND	mg/L	1.3 EPA Action Level	0.004
✓	Iron	ND	mg/L	0.3 EPA Secondary	0.020
✓	Lead	ND	mg/L	0.015 EPA Action Level	0.002
●	Magnesium	37.30	mg/L	–	0.10
●	Manganese	0.013	mg/L	0.05 EPA Secondary	0.004
✓	Mercury	ND	mg/L	0.002 EPA Primary	0.001
✓	Nickel	ND	mg/L	–	0.020
●	Potassium	1.1	mg/L	–	1.0
✓	Selenium	ND	mg/L	0.05 EPA Primary	0.020
●	Silica	32.500	mg/L	–	0.100
✓	Silver	ND	mg/L	–	0.002
●	Sodium	31	mg/L	–	1
✓	Zinc	ND	mg/L	5 EPA Secondary	0.004
Physical Factors					
●	Alkalinity (Total)	300	mg/L	–	20
△	Hardness	340	mg/L	100 NTL Internal	10
✓	pH	7.3	pH Units	6.5 to 8.5 EPA Secondary	
●	Total Dissolved Solids	380	mg/L	500 EPA Secondary	20
✓	Turbidity	ND	NTU	1 EPA Action Level	0.1

Status	Contaminant	Results	Units	National Standards		Min. Detection Level
Inorganic Analytes - Other						
●	Chloride	9.7	mg/L	250	EPA Secondary	5.0
✓	Fluoride	ND	mg/L	4	EPA Primary	0.5
✓	Nitrate as N	ND	mg/L	10	EPA Primary	0.5
✓	Nitrite as N	ND	mg/L	1	EPA Primary	0.5
✓	Ortho Phosphate	ND	mg/L	–		2.0
●	Sulfate	9.2	mg/L	250	EPA Secondary	5.0
Organic Analytes - Trihalomethanes						
✓	Bromodichloromethane	ND	mg/L	–		0.002
✓	Bromoform	ND	mg/L	--		0.004
✓	Chloroform	ND	mg/L	–		0.002
✓	Dibromochloromethane	ND	mg/L	--		0.004
✓	Total THMs	ND	mg/L	0.08	EPA Primary	0.002
Organic Analytes - Volatiles						
✓	1,1,1,2-Tetrachloroethane	ND	mg/L	–		0.002
✓	1,1,1-Trichloroethane	ND	mg/L	0.2	EPA Primary	0.001
✓	1,1,2,2-Tetrachloroethane	ND	mg/L	–		0.002
✓	1,1,2-Trichloroethane	ND	mg/L	0.005	EPA Primary	0.002
✓	1,1-Dichloroethane	ND	mg/L	–		0.002
✓	1,1-Dichloroethene	ND	mg/L	0.007	EPA Primary	0.001
✓	1,1-Dichloropropene	ND	mg/L	–		0.002
✓	1,2,3-Trichlorobenzene	ND	mg/L	--		0.002
✓	1,2,3-Trichloropropane	ND	mg/L	–		0.002
✓	1,2,4-Trichlorobenzene	ND	mg/L	0.07	EPA Primary	0.002
✓	1,2-Dichlorobenzene	ND	mg/L	0.6	EPA Primary	0.001
✓	1,2-Dichloroethane	ND	mg/L	0.005	EPA Primary	0.001
✓	1,2-Dichloropropane	ND	mg/L	0.005	EPA Primary	0.002
✓	1,3-Dichlorobenzene	ND	mg/L	–		0.001

Status	Contaminant	Results	Units	National Standards	Min. Detection Level
✓	1,3-Dichloropropane	ND	mg/L	--	0.002
✓	1,4-Dichlorobenzene	ND	mg/L	0.075 EPA Primary	0.001
✓	2,2-Dichloropropane	ND	mg/L	--	0.002
✓	2-Chlorotoluene	ND	mg/L	--	0.001
✓	4-Chlorotoluene	ND	mg/L	--	0.001
✓	Acetone	ND	mg/L	--	0.01
✓	Benzene	ND	mg/L	0.005 EPA Primary	0.001
✓	Bromobenzene	ND	mg/L	--	0.002
✓	Bromomethane	ND	mg/L	--	0.002
✓	Carbon Tetrachloride	ND	mg/L	0.005 EPA Primary	0.001
✓	Chlorobenzene	ND	mg/L	0.1 EPA Primary	0.001
✓	Chloroethane	ND	mg/L	--	0.002
✓	Chloromethane	ND	mg/L	--	0.002
✓	cis-1,2-Dichloroethene	ND	mg/L	0.07 EPA Primary	0.002
✓	cis-1,3-Dichloropropene	ND	mg/L	--	0.002
✓	DBCP	ND	mg/L	--	0.001
✓	Dibromomethane	ND	mg/L	--	0.002
✓	Dichlorodifluoromethane	ND	mg/L	--	0.002
✓	Dichloromethane	ND	mg/L	0.005 EPA Primary	0.002
✓	EDB	ND	mg/L	--	0.001
✓	Ethylbenzene	ND	mg/L	0.7 EPA Primary	0.001
✓	Methyl Tert Butyl Ether	ND	mg/L	--	0.004
✓	Methyl-Ethyl Ketone	ND	mg/L	--	0.01
✓	Styrene	ND	mg/L	0.1 EPA Primary	0.001
✓	Tetrachloroethene	ND	mg/L	0.005 EPA Primary	0.002
✓	Tetrahydrofuran	ND	mg/L	--	0.01
✓	Toluene	ND	mg/L	1 EPA Primary	0.001
✓	trans-1,2-Dichloroethene	ND	mg/L	0.1 EPA Primary	0.002

Status	Contaminant	Results	Units	National Standards		Min. Detection Level
✓	trans-1,3-Dichloropropene	ND	mg/L	--		0.002
✓	Trichloroethene	ND	mg/L	0.005	EPA Primary	0.001
✓	Trichlorofluoromethane	ND	mg/L	--		0.002
✓	Vinyl Chloride	ND	mg/L	0.002	EPA Primary	0.001
✓	Xylenes (Total)	ND	mg/L	10	EPA Primary	0.001
Organic Analytes - Others						
✓	2,4-D	ND	mg/L	0.07	EPA Primary	0.010
✓	Alachlor	ND	mg/L	0.002	EPA Primary	0.001
✓	Aldrin	ND	mg/L	--		0.002
✓	Atrazine	ND	mg/L	0.003	EPA Primary	0.002
✓	Chlordane	ND	mg/L	0.002	EPA Primary	0.001
✓	Dichloran	ND	mg/L	--		0.002
✓	Dieldrin	ND	mg/L	--		0.001
✓	Endrin	ND	mg/L	0.002	EPA Primary	0.0001
✓	Heptachlor	ND	mg/L	0.0004	EPA Primary	0.0004
✓	Heptachlor Epoxide	ND	mg/L	0.0002	EPA Primary	0.0001
✓	Hexachlorobenzene	ND	mg/L	0.001	EPA Primary	0.0005
✓	Hexachlorocyclopentadiene	ND	mg/L	0.05	EPA Primary	0.001
✓	Lindane	ND	mg/L	0.0002	EPA Primary	0.0002
✓	Methoxychlor	ND	mg/L	0.04	EPA Primary	0.002
✓	PCB	ND	mg/L	0.0005	EPA Primary	0.0005
✓	Pentachloronitrobenzene	ND	mg/L	--		0.002
✓	Silvex 2,4,5-TP	ND	mg/L	0.05	EPA Primary	0.005
✓	Simazine	ND	mg/L	0.004	EPA Primary	0.002
✓	Toxaphene	ND	mg/L	0.003	EPA Primary	0.001
✓	Trifluralin	ND	mg/L	--		0.002

Status	Contaminant	Results	Units	National Standards	Min. Detection Level
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We certify that the analyses performed for this report are accurate, and that the laboratory test were conducted by methods approved by the U.S. Environmental Protection Agency or variations of these EPA methods.

These test results are intended to be used for informational purposes only and may not be used for regulatory compliance.

National Testing Laboratories, Ltd.

NATIONAL TESTING LABORATORIES, LTD

ENVIRONMENTAL SYSTEMS SERVICE, LTD.

Emery & Garrett Groundwater, Inc.



ENVIRONMENTAL SYSTEMS SERVICE, LTD.

Page: 1

Work Order #: 12817
 Contract #:
 Customer #: 3404
 Customer PO #:

EMERY & GARRETT GROUNDWATER
 DANIEL J. TINKHAM
 56 MAIN STREET
 MEREDITH, NH 03264

Job Location: FCA
 Collected by: CLIENT
 Date Received: 10/27/2010

ANALYSIS REPORT

TAG #: 41103 SAMPLE POINT: FCA - CHURCH SAMPLE DATE: 10/26/2010

Description	Result	Unit	Rpt. Limit	Method	Anlys Date	Time	Ini
Total Suspended Solids	<1.00	mg/l	1.00	SM 2540D	10/28/10	13:25	BW
Ammonia, as N	<0.10	mg/l	0.10	SM 4500NH3D	11/01/10	11:30	BW
Total Kjeldahl Nitrogen	1.12	mg/l	0.50	SM 4500NH3C	11/01/10	09:15	TA

TAG #: 41104 SAMPLE POINT: FCA - JOHNSON SAMPLE DATE: 10/26/2010

Description	Result	Unit	Rpt. Limit	Method	Anlys Date	Time	Ini
Total Suspended Solids	<1.00	mg/l	1.00	SM 2540D	10/28/10	13:34	BW
Ammonia, as N	<0.10	mg/l	0.10	SM 4500NH3D	11/01/10	11:30	BW
Total Kjeldahl Nitrogen	1.40	mg/l	0.50	SM 4500NH3C	11/01/10	09:15	TA

TAG #: 41105 SAMPLE POINT: FCA - 2 SAMPLE DATE: 10/26/2010

Description	Result	Unit	Rpt. Limit	Method	Anlys Date	Time	Ini
Total Suspended Solids	110	mg/l	1.00	SM 2540D	10/28/10	13:36	BW

Reviewed by: *Archie Woodward*
 ESS LAB SERVICES

Report Date: November 05, 2010
 VA LAB ID# 00115



ENVIRONMENTAL SYSTEMS SERVICE, LTD.

Page: 2

Work Order #: 12817
Contract #:
Customer #: 3404
Customer PO #:

EMERY & GARRETT GROUNDWATER
DANIEL J. TINKHAM
56 MAIN STREET
MEREDITH, NH 03264

Job Location: FCA
Collected by: CLIENT
Date Received: 10/27/2010

ANALYSIS REPORT

Description	Result	Unit	Rpt. Limit	Method	Anlys Date	Time	Ini
Ammonia, as N	<0.10	mg/l	0.10	SM 4500NH3D	11/01/10	11:30	BW
Total Kjeldahl Nitrogen	0.84	mg/l	0.50	SM 4500NH3C	11/01/10	09:15	TA

TAG #: 41106 SAMPLE POINT: FCA - AIRPORT

SAMPLE DATE: 10/26/2010

Description	Result	Unit	Rpt. Limit	Method	Anlys Date	Time	Ini
Total Suspended Solids	<1.00	mg/l	1.00	SM 2540D	10/28/10	13:38	BW
Ammonia, as N	<0.10	mg/l	0.10	SM 4500NH3D	11/01/10	11:30	BW
Total Kjeldahl Nitrogen	1.40	mg/l	0.50	SM 4500NH3C	11/01/10	09:15	TA

TAG #: 41107 SAMPLE POINT: FCA - IS

SAMPLE DATE: 10/26/2010

Description	Result	Unit	Rpt. Limit	Method	Anlys Date	Time	Ini
Total Suspended Solids	971	mg/l	1.00	SM 2540D	10/28/10	13:45	BW
Ammonia, as N	<0.10	mg/l	0.10	SM 4500NH3D	11/01/10	11:30	BW
Total Kjeldahl Nitrogen	1.67	mg/l	0.50	SM 4500NH3C	11/01/10	09:15	TA

TAG #: 41108 SAMPLE POINT: FCA - ID

SAMPLE DATE: 10/27/2010

Reviewed by:

Angie Woodward
ESS LAB SERVICES

Report Date: November 05, 2010
VA LAB ID# 00115



ENVIRONMENTAL SYSTEMS SERVICE, LTD.

Page: 3

Work Order #: 12817
Contract #:
Customer #: 3404
Customer PO #:

EMERY & GARRETT GROUNDWATER
DANIEL J. TINKHAM
56 MAIN STREET
MEREDITH, NH 03264

Job Location: FCA
Collected by: CLIENT
Date Received: 10/27/2010

ANALYSIS REPORT

Description	Result	Unit	Rpt. Limit	Method	Anlys Date	Time	Ini
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Total Suspended Solids	6.50	mg/l	1.00	SM 2540D	10/28/10	13:46	BW
Ammonia, as N	<0.10	mg/l	0.10	SM 4500NH3D	11/01/10	11:30	BW
Total Kjeldahl Nitrogen	1.67	mg/l	0.50	SM 4500NH3C	11/01/10	15:00	TA

Reviewed by:

Angie Woodward
ESS LAB SERVICES

Report Date: November 05, 2010
VA LAB ID# 00115

SAMPLE CHAIN OF CUSTODY RECORD

Company Emery & Garrett Groundwater
 Contact Michael O'Brien
 Address 56 Main St.
 Address Meredith, NH 03253
 Phone 603-279-4425

ENVIRONMENTAL SYSTEMS SERVICE, LTD.

218 North Main St.
 Post Office Box 520
 Culpeper, VA 22701
 800-541-2116
 540-925-6660 Fax: 540-825-4961



www.ess-services.com

Project Name/Site FCA P.O.# _____

Sampled By: Michael O'Brien (Print Name) _____ (Signature)

ESS SAMPLE ID.	COLLECTION DATE TIME		SAMPLE LOCATION	CONTAINERS			SAMPLE MATRIX	PRESERVATIVE	TSS	NH3: TKN	COMMENTS
	DATE	TIME		SIZE	QTY	QTY					
41103	10/26/10	1240	FCA - CHURCH	1L	P	1	X	gw	none		
41104	10/26/10	1330	1' - JOHNSON	500ml	P	1	X	gw	H2SO4	X	
41105	10/26/10	1450	- 2	1L	P	1	X	gw	none	X	
41106	10/26/10	1530	- AIRPORT	500ml	P	1	X	gw	H2SO4	X	
41107	10/26/10	1630	- 15	1L	P	1	X	gw	none	X	
41108	10/27/10	1300	- 1D	500ml	P	1	X	gw	H2SO4	X	
41104	10/26/10	1330	JOHNSON	1L	P	1	X	gw	none		
41103	10/26/10	1240	CHURCH	500ml	P	1	X	gw	H2SO4	X	
41106	10/26/10	1530	AIRPORT	1L	P	1	X	gw	none	X	Preservative
41105	10/26/10	1450	2	500ml	P	1	X	gw	H2SO4	X	pH Check: <u>6.2</u>
41108	10/27/10	1300	1D	1L	P	1	X	gw	none	X	
41107	10/26/10	1630	15	500ml	P	1	X	gw	H2SO4	X	

Relinquished by:	Date	Time	Received by:	Date	Time
<u>[Signature]</u>	10/27/10	1464	<u>[Signature]</u>	10/27/10	1405

Relinquished by:	Date	Time	Received by:	Date	Time
			<u>[Signature]</u>	12/8/17	

Method of Delivery:
 UPS
 UPS Overnight
 Fed Ex
 Hand Delivery
 Post Office

On Ice? Y N
 Received @ 1.4 °C
 Under 2 hours

TAT:
 Normal _____
 Rush _____
 Need Results by _____
 Extra charges will apply for Rush TAT.

W.O.# 12817 Amt Paid \$ _____
 W.O.# _____ Check # _____

EMERY & GARRETT GROUNDWATER, INC.

**56 Main Street • P.O. Box 1578
Meredith, New Hampshire 03253**

