



Bob Fournier  
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Vet ran

Offering Disciplines in  
Science & Environmental  
Engineering services  
Fax: 774-745-8210

FAX TO: 508 892 7070  
Board of Health

September 2, 2018  
@ 10:25 AM

## PUBLIC RECORD REQUEST

Kindly transmit by fax any and  
all information regarding  
to the Artisan Mill located at  
210 Kennebec St. Leicester, Mass.  
also include if its available  
any water analysis.

Thank you!

Bob Fournier

10/3/18  
Please  
See Attached

RECEIVED

OCT 02 2018

Town of Leicester  
Development & Inspectional Services

RECEIVED  
2018 OCT -2 PM 4:43  
OFFICE OF THE  
LEICESTER, MASS.

results for new well.

Henshaw St.

KAY JO

correct 2 weeks per J.P. 6-6-88.

REPORT NO. 9585



The Water Works Laboratories Inc.

10 MAIN STREET, LEOMINSTER, MA 01453

(617) 534-1444

800-LAB-0094

(In Mass.)

800-LAB-0081

(Outside Mass.)

### SAMPLE INFORMATION

Report by: Carolyn Cameron  
Address: P.O. Box 405 Leicester, Ma.

Sample Location: Same

Sampled by: Carolyn Cameron

Time:

Time: 10:00 am

Date: May 11, 1988

Mass. Cert. #15352  
Secondary Standard

Mass. Cert. #15352

### Water Quality Test Results

	Test	Results	Limits	Brief Explanation (See Explanation Sheet)
Bacteria	Coliform Bacteria (P)	0/100	4-100	The # of Coliform Bacteria found in 100 milliliters
	Fecal Bacteria (P)	NT	0-100	Bacteria from warm-blooded animals.
	Standard Plate Count	NT	200-100	Determines total bacteria
Minerals/Metals	Arsenic (P)	0.00	0-0.05 mg/l	Toxic metal contaminant
	Sodium (S)	30.00	0-250 mg/l	A component of "salt" (In Mass. 20 mg/l)
	Copper (S)	0.00	0-1 mg/l	May indicate pipe corrosion
	Iron (S)	0.00	0-0.3 mg/l	Brown stains, bitter taste
	Lead (P)	0.00	0-0.05 mg/l	Toxic metal contaminant
	Manganese (S)	0.00	0-0.05 mg/l	May cause laundry staining
	Magnesium	3.70	0-200 mg/l	A component of hardness
	Calcium	37.00	0-200 mg/l	A component of hardness
Chemical	Alkalinity (S)	50.00	NO LIMIT	Ability to neutralize acids
	Chlorine	0.00	0.0-0.5 mg/l	A disinfectant (bleach), kills bacteria
	Fluoride	45.00	0.0-1.0 mg/l	Aids in tooth enamel, "soft" salt taste
	Hardness	74.00	0-100 mg/l	Ability to form soap scum, causes hardness
	Biological Oxygen Demand (BOD)	0.00	0-10 mg/l	Indicator of biological waste
	Corrosiveness (S)	Corr	NO LIMIT	A calculation of water-metal interaction
	Sulfate (S)	0.00	0-250 mg/l	A common mineral - may cause odor
Physical	Total Solids (S)	102.50	0-500 mg/l	Total minerals present
	pH (S)	7.50	6.5-8.5	The acidic or basic condition, 7.0 is neutral.
	Conductivity	205.00	0-550	Resistance to electrical current (umhos/cm)
	Color (S)	5.00	0-15 cu	Clarity (0) or discoloration (15)
	Dissolved Oxygen	4.30	0-15 mg/l	Amount of oxygen present
	Odor (S)	0.00	0-3 TON	Odors due to contamination
	Turbidity (P)	0.00	0-5 NTU	Presence or absence of particles
	Ammonia	0.00		
	Nitrite	0.00		
	Nitrate	0.00		

For those items tested, this sample meets the following EPA criteria for drinking water.

Reported by: Eric J. Koslowski  
CHEMIST

☒ Primary ☒ Secondary ☐ Neither

Date: May 12, 1988

☐ Not Tested

*On file  
1/13/88  
City of Leicester*

TOWN OF LEICESTER  
BOARD OF HEALTH  
LEICESTER, MASSACHUSETTS



APPLICATION FOR WELL CONSTRUCTION PERMIT

1. Applicant

Name FRANK + CAROLYN CAMERON  
Address 210 Henshaw St.

2. Owner of Property

Name Same  
Address \_\_\_\_\_

3. Location of Well

Street or Lot Number 210 Henshaw St.

4. Type of Well

Drilled (☒) Dug ( )

5. Purpose of Well

(☒) Drinking Water (Domestic)  
( ) Lawn or Shrub Watering  
( ) Industrial Process Water  
( ) Other - Specify \_\_\_\_\_

6. Well Contractor

Name Charlton Well Co.  
Address RFD 1, Box 274, Charlton, MA 01507  
Mass. Registration No. 56

7. Attach sketch or plan showing the Following:  
The buildings to be served, property lines, location of existing, proposed, or adjacent sewage disposal systems within 100', and any other information required by the Board of Health or its Agent

I hereby agree to comply with all Rules and Regulations of the Town of Leicester and the Commonwealth of Massachusetts regarding the installation of wells.

Signature Frank E. Cameron Date 4/4/88

# REITZEL ASSOCIATES

10 Kendall Place, Boylston, Ma. 01505  
617/869-2893

old  
well

## DRINKING WATER ANALYSIS

REPORT NO. 9403

Sample Taken by:

Date: 12-3-87 Time: AM

Analysis Requested By:

Sample Location:

Name FRANK G. CAMERON  
Address 210 Henshaw St.  
Leicester, MA 01524  
Telephone 892-8436

Name \_\_\_\_\_  
Address Same  
Telephone \_\_\_\_\_

Bacteria Test Results

✓ Total Coliform Bacteria 0 per 100 ML.

Chemical Test Results

In milligrams per liter unless otherwise noted.  
MG/L = parts per million. Grains per gallon = MG/L 17.1

pH	S.U.	7.23	Acidity	as CaCO <sub>3</sub>	
Conductivity	umho/cm	185	Alkalinity <sup>1</sup>	as CaCO <sub>3</sub>	
Odor	T.O.N.	NONE	Ammonia Nitrogen <sup>1</sup>		
Turbidity	NTU	0.4	Arsenic		0.033
Color	PT - Co. Units	0	Copper <sup>1</sup>		
Nitrate Nitrogen		20.1	Ferrous Iron		
Iron		0.140	Fluoride		
Manganese		<0.003	MBAS (Detergents)		
Total Hardness	as CaCO <sub>3</sub>	81	Nitrite Nitrogen		
Chloride		5	Residual Chlorine		
Sodium		8	Silica		
			Sulfate		
			Sulfide		

COMMENTS

Approved Ruth Bahr Supervisor

With respect to the tests performed and reported here,  
the results meet the U.S.P.H.S criteria for safe drinking water.

FEE: \$ 85.00 Check (✓) Cash ( )

Fee payable upon sample receipt

Approved Ruth Bahr Supervisor

PLEASE SEE OTHER SIDE FOR INSTRUCTIONS

HEITZEL ASSOCIATES - 10 Kendall Place, Boylston, Ma. 01505 - Phone (617) 869-2893

Mass. Laboratory Certification No. 03951

WATER QUALITY PROBLEMS AND RECOMMENDATIONS

Refer to items checked and found in excess in your water. Recommendations are general and not guaranteed by us. Consult with your water conditioning (pump) company and show them this report. Limits refer to USPHS/FHA Standards where met. Milligrams per liter (mg/l) equals parts per million (PPM). One grain per gallon (gpg) is 17.1 mg/l.

- ☐ Total Coliform Bacteria - Limit - None in 100 ml. sample - Indicates contamination from surface water or sewage. Water considered unsafe. Source of Coliforms should be found & eliminated; faulty well or casing seal, polluted water vein. Retest after correction. Chlorination of system will often eliminate bacteria. See sheet attached.
- ☐ pH - Less than 7 is acid, more is alkaline. Less than 4 or more than 9 suggests industrial pollution. Greater than 7 may indicate high silica. Less than 6.5 may corrode pipes especially if chloride or sulfate are high. Recommended range is 5.5 - 8.5; below 5.5, usually corrosive, above 8.5, may have scale problems if hardness is high.
- ☐ Conductivity - This measures all dissolved minerals. May indicate chemicals not tested. Nuisance - salty taste & corrosion. 1000 umho/cm maximum.
- ☐ Threshold Odor - 3 maximum - Various sources: check Coliform Bacteria. See Total Bacteria, Sulfide: chemical/oil odors indicate pollution. Consider water unsafe, find source. Harmless odors removable with charcoal filter.
- ☐ Turbidity - 5 NTU max. - Usually only nuisance but may hide bacteria - rust indicates high Iron/Manganese. Check Coliform Bacteria. Use sediment filter. New wells often turbid but may improve with use.
- ☐ Color - 15 Units maximum - Nuisance, may be caused by Iron, Manganese or decaying vegetation. Use charcoal filter if other treatment is not required.
- ☐ Nitrate Nitrogen - 10 mg/l maximum - More can cause infant poisoning. Source usually fertilizer. Removal expensive (distill, reverse osmosis, or strong base ion exchange).
- ☐ Iron - 0.3 mg/l maximum - Nuisance only. Staining on fixtures & clothes. As much as 2.0 mg/l may not cause problems. Several types of treatment equipment are available. Choice should match complete chemical analysis.
- ☐ Manganese - 0.05 mg/l maximum - Nuisance only, treat like Iron.
- ☐ Total Hardness - Less than 100 mg/l usually no problem. 100 to 200 some problems. Greater than 200 problems common. Causes poor lather, ring on tub, spots on glasses, plugged pipes, poor laundry. Correct with softener; Iron can also be removed with same unit. Removing Hardness will increase Sodium. 0 Hardness, water is corrosive. See Sodium.
- ☐ Chloride - 250 mg/l maximum - Not usually health hazard but suggests high Sodium. Salty taste, corrosion. Remove as Nitrate.
- ☐ Detergent - MBAS - 0.05 mg/l maximum - Not a health hazard or nuisance but suggests sewage pollution - check Coliform Bacteria.

- ☐ Total Bacteria - no limit - Not usually a health hazard. Large number (greater than 100) may cause taste & odor. Cure as Total Coliform Bacteria.
- ☐ Iron Bacteria - no limit - not health hazard. Forms rusty clumps, may plug well screen or filters - cure as Total Coliform Bacteria.
- ☐ Nitrite or Ammonia Nitrogen - no limit - Greater than 0.1 mg/l may indicate pollution. Suggests decaying protein from sewage or vegetable matter. Odor or taste may be present. Test for Coliform Bacteria.
- ☐ Fluoride - 2.0 mg/l maximum - 1.0 mg/l ideal - Reduces cavities. Excess may cause tooth mottling. Usually found naturally in deep artesian wells, especially in Princeton area. Notify Dentist/Pediatrician. Remove as Nitrate.
- ☐ Silica - no limit - Nuisance - may be laxative. May plug pipes and valves. Reducing hot water temperature may help. High pH may indicate Silica. Remove as Nitrate.
- ☐ Sodium - Maximum 20 mg/l - for people on low Sodium diet. Some Doctors believe larger amounts may cause health problems. Consult your Doctor. Softener increases Sodium. Removal process is very expensive.
- ☐ Sulfide - 0.01 mg/l - Produces rotten egg odor. Sewage pollution possible, check Coliform Bacteria. Remove with charcoal filter, hypochlorite, or green sand depending on level.
- ☐ Acidity - no limit - see pH. Measures Total Acid in water. Indicates amount of Soda Ash or Calcite required to raise pH.
- ☐ Alkalinity - no limit - see pH. Measures Total Alkali in water. Not corrosive but may plug pipes.
- ☐ Sulfate - 250 mg/l maximum - Corrosive at low pH, especially with Chloride. Remove as Nitrate. May be laxative.
- ☐ Residual Chlorine - 0.01 mg/l maximum - For Bacteria samples. Higher levels may kill bacteria making tests invalid.
- ☐ Copper - 1 mg/l maximum - May cause bitter taste, green tint in blonde hair. Large amounts, 20 mg/l+ may cause instant nausea. May indicate pipe corrosion. Check pH, Chloride and Sulfate.
- ☐ Arsenic - 0.05 mg/l maximum - EPA maximum contaminant level. More may be toxic. Removal equipment is available.

We do not usually test private well waters for organic pollutants such as pesticides, solvents or toxic metals (lead, cadmium, or mercury). These tests are complicated and expensive. However, if you suspect any of these materials for health or other reasons, we can do them.