# **2011** Required Water Distribution Samples

Repete R
Upstream Up
DownStream Dn

**Coliform Bacteria** **Sampled Monthly**
Total Coliform / E.Coli P= present A= absent

| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Repete R /Up/Dn | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 001 - Water Office | A | A | A | A | A | A | A | A | A | A | A | | A |
| 002 - Penn Brook School | A | A | A | A | A | A | A | A | A | A | A | | A |
| 003 - Erie Fire Station | A | A | A | A | A | A | A | A | A | A | A | | A |
| 004 - High School | A | A | A | A | A | A | A | A | A | A | A | | A |
| 005 - Baldpate Hospital | A | A | A | A | A | A | A | A | A | A | A | | A |
| 006 - Hi -Tech Hose | A | A | A | A | A | A | A | A | A | A | A | | A |
| 007 - Elderly Housing | A | A | A | A | A | A | A | A | A | A | A | | A |
| 008 - Marshall GP Well | A | A | A | A | A | A | P/A | OFF | LINE | FOR | CLEANING | AND | CONST. |
| 009 - West Street Garage | A | A | A | A | A | A | A | A | A | A | A | | A |
| 010 - Commissioner's GP Well | A | A | A | A | A | A | A | A | A | A | A | | A |
| 011 - Duffy's GP Well | A | A | A | A | A | A | A | A | A | A | A | | A |
| 012 - Farm Lane Realty Trust | A | A | A | A | A | A | A | A | A | A | A | | A |
| 013 - Treatment Plant Finish ** | A - A | A - A | A - A | A - A | A - A | A - A | A - A | A - A | A - A | A - A | A - A | | A - A |
| 375 Central Street | A | A | A | A | A | A | A | A | A | A | A | | A |
| Patriot Lane Booster Station | A | A | A | A | A | A | A | A | A | A | P/A | 0 / 0 / 0 | A |
| Patriot Lane Building #9 | A | A | A | A | A | A | A | A | A | A | A | | A |

** Treatment plant is sampled 2 times each month

**Chlorine Residual** **Sampled Monthly**
Total Milligrams/Liter

| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 001 - Water Office | 0.4 | 0.7 | 0.9 | 1.1 | 0.2 | 0.1 | 0.6 | 0.9 | 0.9 | 0.1 | 0.6-0.3 | 0.8 |
| 002 - Penn Brook School | 0.1 | 0.2 | 0.4 | 0.1 | 0.4 | 0.1 | 0.1 | 0.1 | 0 | 0.1 | 0.2-0.1 | 0.0 |
| 003 - Erie Fire Station | 0.3 | 0.4 | 0.3 | 0.4 | 0.2 | 0.3 | 0.2 | 0.3 | 0.1 | 0.1 | 0.3-0.1 | 0.3 |
| 004 - High School | 0.3 | 0.3 | 0.9 | 1 | 0.5 | 0.6 | 0.5 | 0.4 | 0.3 | 0.1 | 0.1-0.9 | 0.4 |
| 005 - Baldpate Hospital | 0.2 | 0.3 | 0.6 | 0.6 | 0.8 | 0.2 | 0.2 | 0.6 | 0.4 | 0.2 | 0.1 | 0.0 |
| 006U - B&W Press | | 0.2 | 0.2 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.0 |
| 007 - Elderly Housing | 0.7 | 1 | 0.8 | 0.7 | 0.9 | 0.6 | 0.5 | 0.1 | 0.1 | 0.4 | 0.6-0.5 | 0.8 |
| 009 - West Street Garage | 0.2 | 0.2 | 0.3 | 0.1 | 0.5 | 0.4 | 1.1 | 0.5 | 0.7 | 1.1 | 0.2 | 0.2 |
| 012 - Farm Lane Realty Trust | 0.1 | 0.1 | 0.1 | 0.2 | 0 | 0.1 | 0.2 | 0.2 | 0.1 | 0.0 | 0.1 | 0.1 |
| 014 - Patriot Lane Booster Station | 0.1 | 0.1 | 0.2 | 0.3 | 0.1 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.2-0.1-0.0 | 0.1 |
| 015 - Patriot Lane Building #9 | 0.1 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.0 | 0.2 | 0.1 | 0.1 | 0.3-0.1 | 0.1 |
| 016 - 269 Central Street | 0.1 | 0.2 | 0.4 | 0.5 | 0.3 | 0.2 | 0.5 | 0.1 | 0.1 | 0.1 | 0.1 | 0 |
| 013 - Treatment Plant Finished ** | 2.6-2.5 | 2.7-2.3 | 1.8-1.2 | 1.4-1.0 | 1.5-2.7 | 2.5-3.0 | 2.5-2.6 | 2.2-2.4 | 2.8-1.3 | 2.8-1.2 | 2.5-2.5-1.0 | 2.9-2.9 |
| Concrete Reservoirs | | | | | | | | | | 1.1 | 0.5 | 0.2 |
| Elevated Tank | | | | | | | | | | 0.3 | 1.0 | 1.7 |

# **2011** Required Water Distribution Samples

**Perchlorate** — **Sampled Annually** — 7/19/2011

| | | MCL | |
|---|---|---|---|
| Perchlorate | at Erie 4 | 2.0 ug/L | ND |
| Conductivity | at Erie 4 | umhos/cm | 340 |

**Lead & Copper** — **Sampled Annually - in AUGUST** — **form at least 20 homes plus the three schools**

**90th Percentile in milligrams / Liter**

24 Householdsthroughout Georgetown were sampled in August along with all three schools. 90% of the households had Lead and Copper levels at or below this value

| | | Lead | | Copper |
|---|---|---|---|---|
| | | 0.015 | Action Levels mg/L | 1.3 |
| Penn Brook Elementary | Kitchen | 0.014 | | ND |
| | Bubbler | 0.005 | | 0.23 |
| Perley Elementary School | Kitchen | 0.006 | | ND |
| | Bubbler | 0.002 | | 0.38 |
| Georgetown Middle / High | Kitchen | 0.008 | | 0.15 |
| | Bubbler | 0.003 | | 0.13 |

**Residential**

| Sample # | Lead | Copper | Sample # | Lead | Copper |
|---|---|---|---|---|---|
| 1 | ND | ND | 12 | 0.005 | 0.090 |
| 2 | 0.001 | 0.030 | 13 | 0.005 | 0.100 |
| 3 | 0.001 | 0.030 | 14 | 0.007 | 0.110 |
| 4 | 0.002 | 0.030 | 15 | 0.007 | 0.110 |
| 5 | 0.003 | 0.050 | 16 | 0.007 | 0.110 |
| 6 | 0.003 | 0.060 | 17 | 0.007 | 0.120 |
| 7 | 0.004 | 0.060 | 18 | 0.008 | 0.130 |
| 8 | 0.005 | 0.060 | 19 | 0.009 | 0.130 |
| 9 | 0.005 | 0.080 | 20 | 0.009 | 0.160 |
| 10 | 0.005 | 0.080 | 21 | 0.010 | 0.170 |
| 11 | 0.005 | 0.080 | 90th % 22 | 0.011 | 0.210 |
| | | | 23 | 0.012 | 0.250 |
| | | | 24 | 0.012 | 0.260 |

**CHLORINATION BY PRODUCTS** — **Sampled at Erie 4 Fire Station**

**Trihalomethane** — **micrograms / Liter (Parts Per Billion)**

| | | 3-Aug |
|---|---|---|
| Bromoform | | ND |
| Chloroform | | 37.1 |
| Bromodichlorommethane | | 8.44 |
| Dibromochloromethane | | 1 |
| TOTAL TRIHALOMETHANES | (MCL -80ug/L) | 46.5 |

**Haloacetic Acids 5** — **micrograms / Liter (Parts Per Billion)**

| | | |
|---|---|---|
| Monochloroacetic Acid | | 1.25 |
| Dichloroacetic Acid | | 4.28 |
| Trichloroacetic Acid | | 17.8 |
| Momobromoacetic Acid | | ND |
| Dibromoacetic Acid | | ND |
| TOTAL HALOACETIC ACIDS | (MCL-60ug/L) | 23.9 |

**Perchlorate** — **micrograms / Liter (Parts Per Billion)**

| | | | | 7/19/2011 |
|---|---|---|---|---|
| Perchlorate | MCL | 2 | ug/L | BDL |
| Conductivity | MCL | None | umhos/cm | 340 |

# CORROSION CONTROL - ADDITIONAL LEAD & COPPER

Aditonal Samples from JUNE form at least 20 homes plus the three schools
to assess the effects of no lime on the Lead & Copper Rule samples

Lead & Copper

milligrams / Liter

| | | Lead | Copper |
|---|---|---|---|
| | | 0.015 | Action Level 1.3 |
| **90th Percentile** | | | |
| 20Households throughout Georgetown were sampled in JUNE along with all three schools. 90% of the households had lead and copper levels at or below th | Kitchen | 0.022 * | 0.16 |
| | Bubbler | 0.008 | 0.55 |
| | Kitchen | 0.002 | 0.11 |
| | Bubbler | 0.001 | 0.07 |
| Penn Brook Elementary | Kitchen | 0.004 | 0.08 |
| | Bubbler | ND | 0.13 |
| Perley Elementary School | | | |
| Georgetown Middle / High | | | |

Schools

Residential JUNE 2011

| Sample # | Lead | Copper | Sample # | Lead | Copper |
|---|---|---|---|---|---|
| 1 | ND | ND | 12 | 0.005 | 0.270 |
| 2 | ND | ND | 13 | 0.005 | 0.280 |
| 3 | 0.001 | 0.050 | 14 | 0.005 | 0.310 |
| 4 | 0.002 | 0.100 | 15 | 0.006 | 0.330 |
| 5 | 0.002 | 0.120 | 16 | 0.006 | 0.400 |
| 6 | 0.002 | 0.150 | 17 | 0.006 | 0.420 |
| 7 | 0.002 | 0.150 | 90th % | 0.008 | 0.490 |
| 8 | 0.003 | 0.190 | 19 | 0.008 | 0.570 |
| 9 | 0.003 | 0.200 | 20 | 0.009 | 0.570 |
| 10 | 0.004 | 0.210 | | | |
| 11 | 0.004 | 0.220 | | | |

* This was the only sample to exceed the Action Limit . Letting the water run for a few munute drops the concentrations to safe levels before consumption.

# 2011 Required Water Distribution Samples (CONTINUED)

**Volital Organic Compounds (VOCs)** **57 Compounds**

**micrograms / Liter (Parts Per Billion)**

**Sampled at the West StreetTreatment Plant Treated Wate 7/19/2011**

| Regulated | VOC Contaminants | Results | MDL | MCL |
|---|---|---|---|---|
| | Benzene | ND | 0.05 | 5 |
| | Carbon Tetrachloride | ND | 0.05 | 5 |
| | 1,1-Dichloroethylene | ND | 0.05 | 7 |
| | 1,2-Dichloroethane | ND | 0.05 | 5 |
| | Para-Dichlorobenzene | ND | 0.05 | 5 |
| | Trichloroethane (TCE) | ND | 0.05 | 5 |
| | 1,1,1-Trichloroethane | ND | 0.05 | 200 |
| | Vynal Chloride | ND | 0.05 | 2 |
| | Monochlorobenzene | ND | 0.05 | 100 |
| | O-Dichlorobenzene | ND | 0.05 | 600 |
| | Trans -1,2,Dichloroethylene | ND | 0.05 | 100 |

| | | Results | MDL | MCL |
|---|---|---|---|---|
| | CIS-1,2-Dichloroethylene | ND | 0.05 | 70 |
| | 1,2-Dichloropropane | ND | 0.05 | 5 |
| | Ethylbenzene | ND | 0.05 | 700 |
| | Styrene | ND | 0.05 | 100 |
| | Tetrachloroethylene (PCE) | ND | 0.05 | 5 |
| | Toluene | ND | 0.05 | 1000 |
| | Xylenes (TOTAL) | ND | 0.05 | 10000 |
| | Dichloromethane | ND | 0.05 | 5 |
| | 1,2,4-Trichlorobenzene | ND | 0.05 | 70 |
| | 1,1,2-Trichloroethane | ND | 0.05 | 5 |

| Unregulated | VOC Contaminants | NOT DETECTED | MDL |
|---|---|---|---|
| | Chlorodibromomethane | ND | 0.05 |
| | Bromoform | ND | 0.05 |
| | M-Dichlorobenzene | ND | 0.05 |
| | Dibromomethane | ND | 0.05 |
| | 1,1-Dichloropropene | ND | 0.05 |
| | 1,1-Dichloromethane | ND | 0.05 |
| | 1,1,2,2-Tetrachloroethane | ND | 0.05 |
| | 1,3-Dichlopropane | ND | 0.05 |
| | Chloromethane | ND | 0.05 |
| | Bromomethane | ND | 0.05 |
| | 1,2,3-Trichloropropane | ND | 0.05 |
| | 1,1,1,2-Tetrachloroethane | ND | 0.05 |
| | Chloroethane | ND | 0.05 |
| | 2,2-Dichloropropane | ND | 0.05 |
| | 0-Chlorotoluene | ND | 0.05 |
| | P-Chlorotoluene | ND | 0.05 |
| | Bromobenzene | ND | 0.05 |

| | | | MDL |
|---|---|---|---|
| | 1,3-Dichloropropene | ND | 0.05 |
| | 1,2,4-Trimethylbenzene | ND | 0.05 |
| | 1,2,3-Trichlorobenzene | ND | 0.05 |
| | N-Propylbenzene | ND | 0.05 |
| | N-Butylbenzene | ND | 0.05 |
| | Napthalene | ND | 0.05 |
| | Hexachlorobutadiene | ND | 0.05 |
| | 1,3,5-Trimethylbenzene | ND | 0.05 |
| | P-Isopropyltoluene | ND | 0.05 |
| | Isopropylbenzene | ND | 0.05 |
| | Tert-Butylbenzene | ND | 0.05 |
| | Sec-Butylbenzene | ND | 0.05 |
| | Fluorotrichloromethane | ND | 0.05 |
| | Dichlorodifluoromethane | ND | 0.05 |
| | Bromochloromethane | ND | 0.05 |
| | Mehtyl Tertiary Butyl Ether (MTBE) | ND | 0.05 |

| Unregulated | VOC Contaminants | DETECTED | MDL |
|---|---|---|---|
| | Chloroform | 9.4 | 0.05 |
| | Bromodichloromethane | 2.4 | 0.05 |

**Unregulated and/or NON-TARGET VOC Contaminants NOT REPORTED THIS YEAR**

| | | |
|---|---|---|
| Tetrahydrofuran | Di-Isopropyl Ether | Acetone |
| Tert-Butyl Alcohol | Freon 113 | |
| Tert-Amyl Methyl Ether | Methyl-Isobutyl Ketone | |
| Ethyl Tertiary Butyl Ether | Methyl Ethyl Ketone | |

# 2011 Required Secondary Contaminant Samples

**West Street Water Treatment Plant** **Sampled Annually**

| | | | May/4/2011 | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | **Marshall** | **Commissioners** | **Duffy's** | **Treat. Plant** | | **Water Office** |
| **Secondary Contaminants** | Recommended Maximum | | Well-3G | Well-4G | Well-5G | Raw | Treated | |
| Aluminum | None | mg/L | ND | ND | ND | ND | ND | ND |
| Calcium | None | mg/L | 17.3 | 30.6 | 26.8 | 26.5 | 27.5 | 27.7 |
| Copper | 1.3 | mg/L | 0.09 | 0.05 | ND | ND | 0.17 | 0.06 |
| Iron | 0.3 | mg/L | **2** | **3.5** | **5.2** | **4.3** | 0.09 | 0.21 |
| Lead | 0.015 | mg/L | ND | ND | ND | ND | ND | ND |
| Magnesium | None | mg/L | 3.4 | 4.9 | 3.4 | 3.5 | 3.9 | 3.9 |
| Manganese | 0.05 | mg/L | **0.73** | **1** | 1.1 | **0.96** | 0.04 | 0.033 |
| Potassium | None | mg/L | ND | 1.1 | ND | 12.3 | 14.6 | 16.2 |
| Silver | 0.1 | mg/L | ND | ND | ND | ND | ND | ND |
| Sodium | None | mg/L | 17.5 | 3.6 | 13.7 | 11.5 | 13.9 | 15.3 |
| Zinc | 5 | mg/L | 0.032 | 0.032 | 0.007 | 0.015 | ND | 0.01 |
| Alkalinity | None | mg/L | 32 | 22 | 75 | 78 | 80 | 83 |
| Chloride | 250 | mg/L | 45 | 9.7 | 32.5 | 26.1 | 29.2 | 34.3 |
| Color | 15 | | **50** | **50** | **40** | **100** | 8 | 12 |
| Hardness (mg/L) | None | mg/L | 57 | 96 | 81 | 80 | 85 | 85 |
| Hardness (Grains/Gal) | None | | 3.33 | 5.61 | 4.74 | 4.68 | 4.97 | 4.97 |
| Odor | 3 | | ND | ND | 1 | 1 | ND | 1 |
| pH | 6.5-8.5 | | **6.1** | **5.9** | 6.7 | 6.8 | 6.8 | 6.8 |
| Sulfates | 250 | mg/L | 11.1 | 92.9 | 8.1 | 27.6 | 26.7 | 29.7 |
| Total Disolved Solids | 500 | mg/L | 150 | 176 | 174 | 196 | 198 | 200 |
| Turbidity | 1 to 5 | | 7.4 | 11 | 1.8 | 12.6 | 0.5 | 1.5 |

**Nitrogen Compounds**

| **Treatment Plant Treated Water** | | | **5/4/2011** |
|---|---|---|---|
| Nitrate | MCL | 10 mg/L | 0.06 |
| Nitrite | MCL | 1 mg/L | ND |

**Radioactive Compounds**

| **Treatment Plant Treated Water** | | | **1/11/2011** | |
|---|---|---|---|---|
| Radium - 226 | | | ND | pCi/L |
| Radium - 228 | | | 0.7 +/- 0.8 | pCi/L |
| Combined Radium | MCL | **5.0 pCi/L** | **0.7** | **pCi/L** |

# 2011 Additional Secondary Contaminant Samples

| Secondary Contaminants | Recommended Maximum | | October 26, 2011 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Marshall | mmission | Duffy's | | Treat. Plant | | | | Water Office |
| | | | Well-3G | Well-4G | Well-5G | | Raw | | Treated | | |
| Aluminum | None | mg/L | | ND | ND | P | ND | | ND | | ND |
| Calcium | None | mg/L | O | 26.5 | 24.8 | O | 25.1 | | 24.7 | | 25.3 |
| Copper | 1.3 | mg/L | F | 0.002 | ND | T | ND | G | 0.26 | | 0.06 |
| Iron | 0.3 | mg/L | F | 2.7 | 5.1 | A | 5.1 | R | ND | | 0.69 |
| Lead | 0.015 | mg/L | | | | S | | E | | | |
| Magnesium | None | mg/L | L | 4.6 | 3.4 | S | 3.7 | E | 3.7 | | 3.7 |
| Manganese | 0.05 | mg/L | I | 0.92 | 1 | I | 0.97 | N | 0.038 | | 0.27 |
| Potassium | None | mg/L | N | ND | ND | U | 10.1 | S | 10.3 | | 11.5 |
| Silver | 0.1 | mg/L | E | ND | ND | M | ND | A | ND | | ND |
| Sodium | None | mg/L | | 4.7 | 15 | | 14.2 | N | 19 | | 19.6 |
| Zinc | 5 | mg/L | | 0.014 | ND | H | 0.007 | D | ND | | 0.006 |
| Alkalinity | None | mg/L | | 21 | 77 | Y | 79 | | 79 | | 80 |
| Chloride | 250 | mg/L | | 10.1 | 31.7 | D | 28.5 | F | 38.2 | | 39 |
| Color | 15 | | | 30 | 5 | R | 100 | I | 5 | | 18 |
| Hardness (mg/L) | None | mg/L | | 85 | 76 | O | 78 | L | 77 | | 78 |
| Hardness (Grains/Gal) | None | | | 4.97 | 4.44 | X | 4.56 | T | 4.50 | | 4.56 |
| Odor | 3 | | | 0 | 1 | I | 1 | E | 1 | | 1 |
| pH | 6.5-8.5 | | | 5.8 | 6.6 | D | 6.7 | R | 6.8 | | 6.7 |
| Sulfates | 250 | mg/L | | 79.3 | 3.9 | E | 14.6 | S | 14.8 | | 14.5 |
| Total Disolved Solids | 500 | mg/L | | 156 | 164 | A | 178 | | 180 | | 186 |
| Turbidity | 1 to 5 | | | 10.8 | 2.7 | D | 19.7 | | 0.4 | | 2.4 |
| | | | | | | D | | | | | |
| | | | | | | E | | | | | |
| | | | | | | D | | | | | |

**Water Source Protection Samples**

| Black Swan Country Club Runoff | Limit | Units | 21-Jun | 30-Aug | 21-Nov | Lufkin Brook @ West Street 21-Jun |
|---|---|---|---|---|---|---|
| NITRATE | 10 | mg/L | ND | 0.11 | 0.14 | ND |
| NITRITE | 1 | mg/L | ND | ND | ND | ND |

| EPA- 505 - 508 Pesticides | 21-Jun | 14-Sep | 21-Nov | |
|---|---|---|---|---|
| Alachlor | ND | ND | ND | ND |
| Aldrin | ND | ND | ND | ND |
| Aroclor 1016 | ND | ND | ND | ND |
| Aroclor 1221 | ND | ND | ND | ND |
| Aroclor 1232 | ND | ND | ND | ND |
| Aroclor 1242 | ND | ND | ND | ND |
| Aroclor 1248 | ND | ND | ND | ND |
| Aroclor 1254 | ND | ND | ND | ND |
| Aroclor 1260 | ND | ND | ND | ND |
| Artrazine | ND | ND | ND | ND |
| Chlordane | ND | ND | ND | ND |
| alpha-Chlordane | ND | ND | ND | ND |
| gama-chlordane | ND | ND | ND | ND |
| Dieldrin | ND | ND | ND | ND |
| Endrin | ND | ND | ND | ND |
| Heptachlor | ND | ND | ND | ND |
| Heptachlor epoxide | ND | ND | ND | ND |
| Hexachlorobenzene | ND | ND | ND | ND |
| Hexachlorocyclopentadiene | ND | ND | ND | ND |
| Lindane | ND | ND | ND | ND |
| Methoxychlor | ND | ND | ND | ND |
| Simazine | ND | ND | ND | ND |
| Toxaphene | ND | ND | ND | ND |

| EPA 515.3 Herbicides | 21-Jun | 30-Aug | 21-Nov | |
|---|---|---|---|---|
| 2,4-D | ND | ND | ND | ND |
| Dalapon | ND | ND | ND | ND |
| Dicamba | ND | ND | ND | ND |
| Dinoseb | ND | ND | ND | ND |
| Picloram | ND | ND | ND | ND |
| Pentachlorophenol | ND | ND | ND | ND |
| 2,4,5-TP (Silvex) | ND | ND | ND | ND |

# 2011 Water Quality Samples

| Analyses | MCL | units | Treatment Plant Finished Water | Treatment Plant Finished Water | Commissioners Well Before Treatment | Farm Lane | Marshall Well Before Treatment | Patriot Lane Booster Station | Patriot Lanr Clubhouse (Softened) | Treatment Plant Finished Water | B&W Press | Commissioners Well Before Treatment | Erie Fire Station | Duffy's Well Before Treatment | Pentucket Medical Kitchen | Pentucket Medical Bavk Lavatory |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2011 TEST DATE | | | 1/25 | 3/8 | 3/8 | 4/5 | 4/5 | 4/5/ | 4/5 | 4/5 | 4/5 | 4/5 | 4/5 | 4/11 | 5/3 | 5/3 |
| pH | 6.5-8.5 | | 6.7 | 6.8 | 6 | 7 | 6.1 | 7.1 | 7.3 | 7 | 7 | 5.9 | 6.9 | 6.3 | 6.9 | 7 |
| Conductivity | | | | | | | | | | | | | | | | |
| Total Suspended Solids | 250 | mg/L | 210 | | | | | | | | | | | | | |
| Total Disolveded Solids | 500 | mg/L | 67 | 71 | | 66 | 34 | 68 | 67 | 68 | 56 | 24 | 66 | | 80 | 81 |
| Alkalinity | Not Spec | mg/L | ND | | | | | | | | | | | | | |
| Aluminum | 0.2 | mg/L | 25.5 | 26 | | | | | | | | | | | | |
| Calcium | Not Spec | mg/L | 37.2 | | | | | | | | | | | | | |
| Chloride | 250 | mg/L | 5 | | | | | | | | | | | | | |
| Color | 15 | CU | 0.26 | | | | | | | | | | | | | |
| Copper | 1.3 | mg/L | 80 | | | 87 | 45 | 87 | 3 | 88 | 88 | 95 | 85 | | 82 | 84 |
| Hardness | Not Spec | mg/L | 0.06 | ND | 4.2 | ND | 1.8 | ND | 0.05 | ND | 0.03 | 3.7 | 0.06 | 13.3 | 0.02 | 0.04 |
| Iron | 0.3 | mg/L | | | | | | | | | | | | | | |
| Lead | 0.015 | mg/L | 3.8 | | | | | | | | | | | | | |
| Magnesium | Not Spec | mg/L | 0.037 | ND | 1.3 | 0.01 | 0.63 | ND | ND | ND | ND | 1 | ND | 1.5 | 0.006 | 0.01 |
| Manganese | 0.05 | mg/L | | | | | | | | | | | | | | |
| Nickel | | mg/L | 3 | | | | | | | | | | | | | |
| Odor | 3 | TON | 13.3 | | | | | | | | | | | | | |
| Potassium | Not Spec | mg/L | ND | | | | | | | | | | | | | |
| Silver | 0.1 | mg/L | 17.3 | | | | | | | | | | | | | |
| Sodium | 20 | mg/L | 31.2 | 52.1 | 111 | 76.3 | 11.6 | 73.4 | 48.3 | 79 | 71.2 | 91.8 | 74.9 | 9.4 | 30.3 | 30.7 |
| Sulfate | | mg/L | 0.7 | | | | | | | | | | | | | |
| Turbidity | Not Spec | NTU | | | | | | | | | | | | | | |
| Vanadium | | mg/L | ND | | | | | | | | | | | | | |
| Zinc | 5 | mg/L | | | | | | | | | | | | | | |
| Sulfide | | | | | | | | | | | | | | | | |

| Analyses | Commissioners Well Before Treatment | Marshall Well Before Treatment | Duffy's Well Before Treatment | Treatment Plant Before Treatment | Treatment Plant Finished Water | Water Office | 269 Central Street | Penn Brook School |
|---|---|---|---|---|---|---|---|---|
| 2011 TEST DATE | 5/4 | 5/4 | 5/4 | 5/4 | 5/4 | 5/4 | 5/4 | 5/4 |
| | Also Under REQUIRED TREATED & RAW samples. Here for Comparison | | | | | | | |
| pH | 5.9 | 6.1 | 6.7 | 6.8 | 6.8 | 6.8 | 6.9 | 6.9 |
| Conductivity | | | | | | | | |
| Total Suspended Solids | 176 | 150 | 174 | 196 | 198 | 200 | 204 | 226 |
| Total Disolveded Solids | 22 | 32 | 75 | 78 | 80 | 83 | 80 | 72 |
| Alkalinity | ND | ND | ND | ND | ND | ND | ND | ND |
| Aluminum | 30.6 | 17.3 | 26.8 | 26.5 | 27.5 | 27.7 | 27.3 | 28.7 |
| Calcium | 9.7 | 45 | 32.5 | 26.1 | 29.2 | 34.3 | 33.2 | 24.7 |
| Chloride | 50 | 50 | 40 | 100 | 8 | 12 | 2 | 2 |
| Color | 0.05 | 0.09 | ND | ND | 0.17 | 0.06 | 0.07 | 0.03 |
| Copper | 96 | 57 | 81 | 80 | 85 | 85 | 84 | 89 |
| Hardness | 3.5 | 2 | 5.2 | 4.3 | 0.09 | 0.21 | 0.07 | 0.05 |
| Iron | ND | ND | ND | ND | ND | ND | 0.007 | ND |
| Lead | 4.9 | 3.4 | 3.4 | 3.5 | 3.9 | 3.9 | 3.9 | 4.3 |
| Magnesium | 1 | 0.73 | 1.1 | 0.96 | 0.04 | 0.03 | ND | 0.008 |
| Manganese | | | | | | | | |
| Nickel | ND | ND | 1 | 1 | ND | 1 | ND | 2 |
| Odor | 1.1 | ND | ND | 12.3 | 14.6 | 16.2 | 18.6 | 25.6 |
| Potassium | ND | ND | ND | ND | ND | ND | ND | ND |
| Silver | 3.6 | 17.5 | 13.7 | 11.5 | 13.9 | 15.3 | 16.8 | 10.9 |
| Sodium | 92.9 | 11.1 | 8.1 | 27.6 | 26.7 | 29.7 | 32.6 | 64.2 |
| Sulfate | 0.11 | 7.4 | 1.8 | 12.6 | 0.05 | 1.5 | 0.5 | 0.6 |
| Turbidity | | | | | | | | |
| Vanadium | 0.032 | 0.03 | 0.007 | 0.015 | ND | 0.01 | 0.011 | 0.009 |
| Zinc | | | | | | | | |
| Sulfide | | | | | | | | |

# 2011 Water Quality Samples

| Analyses | 2011 MCL | units | 8 Pentucket Avenue - Kitchen | High School Kitchen | Penn Brook School | Perley Elementary School | B&W Press | Erie 4 Fire Station | Farm Lane | Waldingfield Rd (By R.E. Prescott Co) | Waldingfield Road | Patriot Lane Booster Station | 3 Beleau Woods | 243 West Main | Noyes Road Hydrant | 21 Raymond Court (Softened) | Raymond Court EOL Hydrant | 3 Beleau Woods ( Inside) | 34 West Street (Srevice) | 34 West Street ( Kitchen) | West Main EOL Hydrant | 243 West Main | 243 West Main Sill |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Test Date | 5/16 | 5/17 | 5/17 | 5/17 | 5/17 | 5/17 | 5/17 | 5/20 | 6/11 | 6/21 | 7/11 | 7/12 | 7/12 | 7/19 | 7/19 | 7/19 | 8/4 | 8/4 | 8/4 | 8/4 | 8/5 |
| pH | 6.5-8.5 | | 6.9 | 6.9 | 6.9 | 6.9 | | | | 7.1 | 6.8 | 6.9 | 7.2 | 6.7 | 6.7 | 6.7 | 6.7 | 6.8 | 7.1 | 6.9 | 6.9 | 6.9 | |
| pH By Georgetown Water | | | | | | | | | | | | | | | | | | | | | | | |
| Total Chlorine Residual | | | | | | | | | | | | | | | | | | | | | | | |
| Free Chlorine Residual | | | | | | | | | | | | | | | | | | | | | | | |
| Conductivity | | | | | | | | | | | 208 | | | 208 | | | 204 | | | | | | |
| Total Suspended Solids | 250 | mg/L | | | | | | | | 136.8 | 75 | 79 | 82 | 78 | 80 | 82 | 83 | 85 | 82 | 83 | 78 | 78 | |
| Total Disolveded Solids | 500 | mg/L | 76 | | | | | | | | ND | | | ND | | | ND | | | | | | |
| Alkalinity | Not Spec | mg/L | | | | | | | | | 27.5 | | | 27.2 | | | 25.2 | | | | | | |
| Aluminum | 0.2 | mg/L | | | | | | | | 50 | 31.7 | | | 29.9 | | | 30.8 | | | | | | |
| Calcium | Not Spec | mg/L | | | | | | | | | ND | | | 5 | | | 10 | | | | | | |
| Chloride | 250 | mg/L | | | | | | | | | ND | | | 0.34 | | | ND | | | | | | ND |
| Color | 15 | CU | 0.35 | 0.17 | 1.4 | 0.32 | 0.74 | 0.4 | 0.16 | 205.2 | 84 | | | 83 | | | 78 | | | | | | |
| Copper | 1.3 | mg/L | | | | | | | | <0.05 | 0.06 | 0.11 | 0.6 | 0.08 | 0.8 | 0.17 | 0.32 | 0.08 | 0.2 | 0.18 | 0.25 | 0.18 | 0.27 |
| Hardness | 60 Not Spec | mg/L | ND | | | | | | | | ND | | | ND | | | | | | | | | 0.001 |
| Iron | 0.3 | mg/L | 0.003 | 0.01 | 0.016 | 0.01 | 0.002 | 0.01 | 0.002 | | 3.8 | | | 3.7 | | | 3.6 | | | | | | |
| Lead | 0.015 | mg/L | | | | | | | | ND | ND | 0.02 | 0.059 | 0.04 | 0.17 | ND | 0.044 | ND | 0.37 | 0.34 | 0.1 | 0.07 | 0.08 |
| Magnesium | Not Spec | mg/L | ND | | | | | | | | | | | | | | | | | | | | |
| Manganese | 0.05 | mg/L | | | | | | | | | ND | | | 0 | | | 0 | | 1 | 2 | 2 | 2 | |
| Nickel | | mg/L | | | | | | | | | 13.3 | | | 14 | | | 12.7 | | | | | | |
| Odor | 3 | TON | | | | | | | | | ND | | | ND | | | ND | | | | | | |
| Potassium | Not Spec | mg/L | | | | | | | | | 16.4 | | | | | | | | | | | | |
| Silver | 0.1 | mg/L | | | | | | | | | 20.1 | 23.2 | 16.9 | 17.2 | 16.9 | 17 | 17.3 | 18 | 19.1 | 19 | 19 | 19.2 | 20.3 |
| Sodium | 20 | mg/L | | | | | | | | | 0.4 | | | 0.4 | | | 0.8 | | | | | | |
| Sulfate | | mg/L | | | | | | | | | | | | | | | | | | | | | |
| Turbidity | Not Spec | NTU | | | | | | | | | 0.013 | | | ND | | | ND | | | | | | |
| Vanadium | | mg/L | | | | | | | | | | | ND | | | ND | ND | ND | | | | | |
| Zinc | 5 | mg/L | | | | | | | | | | | | | | | | | | | | | |
| Sulfide | Not Spec | ug/L | | | | | | | | | | | | | | | | | | | | | |

# 2011 Water Quality Samples

| Analyses | MCL | units | 243 West Main ( Sill ) | 256 Andover POOL House Service | 256 Andover POOL House Bathroom | 22 Meadowview | 4 Roberts Avenue | 24 Wells Avenue | 111 West Street | 30 Pilsbury Lane | Pentucket Medical Kitchen | 20 Pilsbury Lane (Hot) | 17 Stone Row (Cold) | 17 Stone Row (Hot) | 12 Prescott Lane | 2 Forest Street (Sill) | Forest Street Hydrant @ #2 | 1 Forest Street (Cold) | 1 Forest Street (Hot Water Tank) | 3 Raymond Road | Water Office | Pentucket Medical Kitchen |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2011 Test Date | | | 8/29 | 8/30 | 8/30 | 9/1 | 9/9 | 9/12 | 9/13 | 9/28 | 9/28 | 9/29 | 9/30 | 9/30 | 10/11 | 10/23 | 10/24 | 10/24 | 10/24 | 10/25 | 10/31 | 10/31 |
| pH | 6.5-8.5 | | | 6.7 | 7 | 7.1 | 7 | 7 | 6.9 | 7 | 7 | 7.3 | | 7.5 | 7.1 | 7.3 | 6.8 | 7 | 7.4 | | | |
| pH By Georgetown Water | | | | | | | | | | | | | | | | | | | | 7.1 | 6.8 | 6.8 |
| Total Chlorine Residual | | | | | | | | | | | | | | | | | | | | 0 | 0.2 | 0 |
| Free Chlorine Residual | | | | | | | | | | | | | | | | | | | | 0 | 0 | 0 |
| Total Disolveded Solids | 500 | mg/L | | | | | | | | | | | | | 200 | | | | | | | |
| Alkalinity | Not Spec | mg/L | | | | 83 | 81 | 93 | 8.9 | | | | | | 88 | 84 | 84 | 82 | 123 | 85 | 43 | 79 |
| Aluminum | 0.2 | mg/L | | | | | | | | | | ND | ND | **23** | ND | ND | ND | ND | **501** | | | |
| Calcium | Not Spec | mg/L | | | | | | | | | | | | | 36.7 | | | | | | | |
| Chloride | 250 | mg/L | | | | | | | | | | | | | 35.5 | | | | | | | |
| Color | 15 | CU | | | | | | | | | | | | | ND | | | | | | | |
| Copper | 1.3 | mg/L | | ND | 0.08 | | | | | | | | | | ND | | | | | | | |
| Hardness | Not Spec | mg/L | | | | | | | | | | | | | 81 | | | | | | | |
| Iron | 0.3 | mg/L | 0.07 | 0.04 | 0.05 | 0.29 | **0.77** | **0.38** | **1.6** | 0.29 | ND | 0.15 | 0.05 | 0.21 | **2.9** | | 0.3 | 0.24 | **17.8** | **0.39** | **0.66** | 0.07 |
| Lead | 0.015 | mg/L | 0.002 | | | | | | | | | | | | | | | | | | | |
| Magnesium | Not Spec | mg/L | | | | | | | | | | | | | 3.5 | | | | | | | |
| Manganese | 0.05 | mg/L | 0.018 | 0.02 | 0.027 | **0.14** | **0.13** | **0.16** | **0.23** | **0.054** | **0.072** | 0.047 | **0.1** | **0.09** | **0.24** | | **0.11** | **0.085** | **0.45** | **0.088** | **0.34** | 0.022 |
| Nickel | | mg/L | | | | | | | | | | | | | | | | | | | | |
| Odor | 3 | TON | | | | 0 | 0 | 2 | 0 | | | | | | 4 | | | | | | | |
| Potassium | Not Spec | mg/L | | | | | | | | | | | | | 12.8 | | | | | | | |
| Silver | 0.1 | mg/L | | | | | | | | | | | | | ND | | | | | | | |
| Sodium | 20 | mg/L | | | | | | | | | | | | | | | | | | | | |
| Sulfate | | mg/L | 18.2 | | | 17.7 | 16.1 | 17.3 | 17.1 | 19.4 | 18.3 | 9.9 | 15 | 15.3 | 12.5 | | 14.2 | 14.2 | 20 | 14.2 | 13.6 | 14.1 |
| Turbidity | Not Spec | NTU | | | | | | | | | | | | | 24.1 | | | | | | | |
| Vanadium | | mg/L | | | | | | | | | | | | | | | | | | | | |
| Zinc | 5 | mg/L | | | | | | | | | | | | | ND | | | | | | | |
| Sulfide | Not Spec | ug/L | | | | | | | ND | ND | | ND | | | | | | | | ND | ND | ND |

# 2011 Water Quality Samples

| Analyses | MCL | units | Farm Lane | Patriot Lane Booster Station | South Byfield Church | Elderly Housing (Trestle Way) | 269 Central St. (Nunan's Florest) | Georgetown Electric | Forest Street Hydrant @ #2 | 1 Forest Street (Cold) | 1 Forest Street (New Hotwater Heater) | Elevated Tank | Concrete Reservoirs | 17 Stone Row (Kitchen) | Erie 4 Firestation ( North Street) | VFW Hall (End of Andover Street) | 12 Prescott Lane | Prescott Lane (Hydrant @ 14) | Treatment Plant (Finished Water) | Elevated Steel Tank | Concrete Reservoirs | Elderly Housing | Water Office . | 269 Central St. (Nunan's Florest) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2011 | | Test Date | 10/31 | 10/31 | 10/31 | 11/8 | 11/8 | 11/8 | 11/20 | 11/20 | 11/20 | 11/21 | 11/21 | 11/21 | 11/21 | 11/21 | 11/22 | 11/22 | 12/7 | 12/7 | 12/7 | 12/7 | 12/7 | 12/7 |
| pH | 6.5-8.5 | | | | | | | | 6.8 | 6.8 | 7.1 | | | | | | 6.9 | | | | | | | |
| pH By Georgetown Water | | | 6.8 | 6.8 | 6.9 | 6.6 | 6.6 | 6.2 | | | | 6.8 | 6.8 | | 6.6 | 7.1 | | | 6.9 | 6.8 | 6.9 | 6.7 | 6.5 | 6.8 |
| Total Chlorine Residual | | | 0.1 | 0 | 0.1 | 0.6 | 0.1 | 0 | | | | 1 | 0.5 | | 0.3 | 0.1 | | | 2.9 | 1.4 | 0.2 | 0.8 | 0.8 | 0 |
| Free Chlorine Residual | | | 0 | 0 | 0 | 0.5 | 0.1 | 0 | | | | 0.8 | 0.4 | | 0.2 | 0 | | | 1.4 | 1.4 | 0.1 | 0.8 | 0.8 | 0 |
| Conductivity | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Suspended Solids | 250 | mg/L | | | | | | | | | | | | | | | 200 | 200 | | | | | | |
| Total Disolveded Solids | 500 | mg/L | | | | | | | | | | | | | | | 79 | 79 | 79 | 77 | 86 | 78 | 80 | 82 |
| Alkalinity | Not Spec | mg/L | 90 | 82 | 89 | 78 | 82 | 81 | ND | ND | ND | 78 | 79 | 87 | 78 | 91 | ND | ND | | | | | | |
| Aluminum | 0.2 | mg/L | | | | | | | | | | | | | | | 26.2 | 26.2 | | | | | | |
| Calcium | Not Spec | mg/L | | | | | | | | | | | | | | | 32.4 | 32.6 | | | | | | |
| Chloride | 250 | mg/L | | | | | | | | | | | | | | | 50 | 40 | | | | | | |
| Color | 15 | CU | | | | | | | | | | | | | | | ND | ND | | | | | | |
| Copper | 1.3 | mg/L | | | | | | | | | | | | | | | 82 | 82 | 81 | 84 | 84 | 82 | 81 | 87 |
| Hardness | 60 Not Spec | mg/L | | | | | | | | | | | | | | | | | | | | | | |
| Iron | 0.3 | mg/L | 0.66 | 0.19 | 1.5 | 0.11 | 0.19 | 0.07 | 0.45 | 0.34 | 0.31 | 0.1 | 0.2 | 0.2 | 0.09 | 0.48 | 2.7 | 2.3 | 0.02 | 0.04 | 4 | 0.09 | 0.2 | 0.1 |
| Lead | 0.015 | mg/L | | | | | | | | | | | | | | | 4 | 4 | | | | | | |
| Magnesium | Not Spec | mg/L | | | | | | | | | | | | | | | | | | | | | | |
| Manganese | 0.05 | mg/L | 0.13 | 0.08 | 0.15 | 0.03 | 0.046 | 0.05 | 0.064 | 0.054 | 0.064 | 0.04 | 0.028 | 0.11 | 0.039 | 0.3 | 0.18 | 0.14 | 0.048 | 0.026 | 0.053 | 0.02 | 0.093 | 0.051 |
| Nickel | | mg/L | | | | | | | | | | | | | | | ND | ND | | | | | | |
| Odor | 3 | TON | | | | | | | | | | | | | | | 12.3 | 12.8 | | | | | | |
| Potassium | Not Spec | mg/L | | | | | | | | | | | | | | | ND | ND | | | | | | |
| Silver | 0.1 | mg/L | | | | | | | | | | | | | | | | | | | | | | |
| Sodium | 20 | mg/L | | | | | | | | | | | | | | | | | | | | | | |
| Sulfate | | mg/L | 13.4 | 14.3 | 13.2 | 13.2 | 14.3 | 16 | | | | 13.2 | 13.7 | 13.2 | 13.4 | 13.9 | 11.8 | 11.7 | 18.3 | 13.1 | 13.2 | 13 | 13.2 | 13.2 |
| Turbidity | Not Spec | NTU | | | | | | | | | | | | | | | 15.8 | 4.4 | | | | | | |
| Vanadium | | mg/L | | | | | | | | | | | | | | | | | | | | | | |
| Zinc | 5 | mg/L | | | | | | | | | | | | | | | ND | ND | | | | | | |
| Sulfide | Not Spec | ug/L | ND | ND | ND | ND | ND | ND | | | | | | ND | ND | ND | | | | | | | | |

# 2011 Water Quality Samples

| Analyses | MCL | units | Penn Brook School | High School | Patriot Lane Booster Static | Erie 4 Fire Station | VFW Hall ( Andover Street | South Byfield Church | 261 North Street (Cold) | 261 North Street (Hot) | 261 North Street (Water H | 111 West Street | 13 Canterberry | Pentucket Medical Center | Farm Lane | Georgetown Electric Depa | 3 Raymond Road | South Byfield Church | Patriot Lane Booster | Patriot Lane Office | Concrete Reservoirs | Elevated Steel Tank |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2011 Test Date | | | 12/7 | 12/7 | 12/7 | 12/7 | 12/7 | 12/7 | 12/19 | 12/19 | 12/19 | 12/19 | 12/20 | 12/20 | 12/20 | 12/20 | 12/20 | 12/20 | 12/20 | 12/20 | 12/20 | 12/20 |
| pH | 6.5-8.5 | | | | | | | | 6.7 | | | 6.8 | 6.7 | 6.6 | 6.7 | 6.6 | 6.9 | 6.9 | | | 6.9 | 6.7 |
| pH By Georgetown Water | | | 6.8 | 6.4 | 6.8 | 6.4 | 6.9 | 7.2 | 6.4 | | | 6.4 | | 6.6 | 6.8 | 6.6 | 6.9 | 7.1 | 6.8 | 6.8 | 6.8 | 6.7 |
| Total Chlorine Residual | | | 0 | 0.4 | 0.1 | 0.3 | 0 | 0.1 | 0.6 | | | 0 | | 0.8 | 0.1 | 0.1 | 0 | 0.1 | 0.1 | 0.1 | 0.2 | 1.5 |
| Free Chlorine Residual | | | 0 | 0.4 | 0 | 0.1 | 0 | 0 | 0.4 | | | 0 | | 0.6 | 0.1 | 0 | 0 | 0.1 | 0.1 | 0.1 | 0.2 | 1.2 |
| AMMONIA | | | | | | | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | | | | ND | ND |
| Conductivity | | | | | | | | | | | | | | | | | | | | | | |
| Total Suspended Solids | 250 | mg/L | | | | | | | 198 | 202 | 204 | 202 | 200 | 194 | 198 | 192 | 200 | 194 | | | 198 | 200 |
| Total Disolveded Solids | 500 | mg/L | 82 | 77 | 81 | 78 | 90 | 80 | 75 | 75 | 78 | 82 | 76 | 75 | 81 | 77 | 84 | 83 | | | 80 | 76 |
| Alkalinity | Not Spec | mg/L | | | | | | | ND | 0.27 | 3.3 | | ND | | | | | ND | | | | |
| Aluminum | 0.2 | mg/L | | | | | | | 23.1 | 23.7 | 24.6 | 25.6 | 28 | 23.3 | 25.4 | 25.4 | 26.8 | 26.8 | | | 24.7 | 24.8 |
| Calcium | Not Spec | mg/L | | | | | | | | | | | | | | | | 33.3 | | | | |
| Chloride | 250 | mg/L | | | | | | | | | | | | | | | | **80** | | | | |
| Color | 15 | CU | | | | | | | | | | | | | | | | ND | | | | |
| Copper | 1.3 | mg/L | | | | | | | | | | | | | | | | | | | | |
| Hardness | Not Spec | mg/L | 83 | 86 | 87 | 82 | 89 | 86 | 77 | 79 | 82 | 82 | 90 | 79 | 83 | 83 | 86 | 85 | | | 80 | 79 |
| Iron | 0.3 | mg/L | 0.13 | 0.18 | **0.4** | 0.13 | **0.65** | **1.8** | 0.12 | 0.1 | 0.26 | **2.3** | 0.2 | 0.09 | **0.78** | **0.14** | **0.85** | **2.3** | | | 0.14 | 0.13 |
| Lead | 0.015 | mg/L | | | | | | | | | | | | | | | | | | | | |
| Magnesium | Not Spec | mg/L | | | | | | | 4.8 | 4.9 | 5 | 4.3 | 4.9 | 5 | 4.8 | 4.7 | 4.7 | 4.5 | | | 4.5 | 4.2 |
| Manganese | 0.05 | mg/L | 0.071 | 0.04 | 0.12 | 0.06 | **0.3** | **0.14** | 0.036 | **0.055** | **0.059** | **0.32** | **0.056** | 0.03 | **0.13** | **0.058** | **0.088** | **0.14** | | | 0.018 | **0.05** |
| Nickel | | mg/L | | | | | | | | | | | | | | | | | | | | |
| Odor | 3 | TON | | | | | | | | | | | | | | | | 1 | | | | |
| Potassium | Not Spec | mg/L | | | | | | | | | | | | | | | | 10.1 | | | | |
| Silver | 0.1 | mg/L | | | | | | | | | | | | | | | | ND | | | | |
| Sodium | 20 | mg/L | | | | | | | | | | | | | | | | | | | | |
| Sulfate | | mg/L | 13.8 | 13.3 | 13.9 | 12.4 | 13.2 | 12.9 | 12.7 | 13 | 13.1 | 11.4 | 12.6 | 13.1 | 12.2 | 12.5 | 11.2 | 11.2 | | | 13.9 | 12.5 |
| Turbidity | Not Spec | NTU | | | | | | | | | | | | | | | | 11.3 | | | | |
| Vanadium | | mg/L | | | | | | | | | | | | | | | | | | | | |
| Zinc | 5 | mg/L | | | | | | | | | | | | | | | | 0.02 | | | | |
| Sulfide | Not Spec | ug/L | | | | | | | 10 | 12 | | 8 | 12 | 2 | 11 | 3 | 15 | | 6 | 8 | | |

# 2011 Water Quality Samples

## SYSTEM WATER TEMPERATURES

| Month | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | 30 Nov | 1 Dec | 2 Dec | 5 Dec | 6 Dec | 7 Dec | 8 Dec | 9 Dec | 12 Dec | 16 Dec | 20 Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COMMISSIONERS WELL | 50-51 | 51 | 48-50 | 48 | 48 | 43-48 | 50 | 51 | 53-63 | 53-54 | 54-53 | | | | | | | | | | | |
| DUFFY'S LANDING WELL | 51-53 | 51 | 49 | 43 | 50-51 | 53-57 | 56-58 | 51-59 | 59-60 | 59-58 | 56-55 | | | | | | | | | | | |
| MARSHALL WELL | 52-53 | 52 | 51-50 | 50 | 49-50 | 51-52 | 52 | OFF | LINE | FOR | REHABILITATION | | | | | | | | | | | |
| TREATMENT PLANT | 52 | 52 | 51-49 | 48-50 | 50-52 | 53-54 | 56 | 59 | 59 | 58 | 56-55 | 55.5 | 52.2 | 55.2 | 55.2 | 55.2 | 55 | 55 | 54.7 | 54.8 | 54.7 | 54.4 |
| ELEVATED TANK | | | | | | | | | | 55.6 | | 55 | 54.4 | 54.7 | 54 | 55 | 53.1 | 53 | 50.9 | 53.3 | 51.3 | 49.9 |
| CONCRETE RESERVOIRS | | | | | | | | | | 54.3 | | 51.2 | 51.8 | 50.9 | 51.6 | 52.3 | 50.7 | 51.3 | 49.9 | 51.1 | 48.1 | 46.6 |
| BALDPATE HOSPITAL | 45 | | 44 | 46 | 50 | 57 | 60 | 64 | 63 | 60 | 56 | | | | | | | | | | | |
| ELDERLY HOUSING | 54 | | 43 | 48 | 51 | 54 | 60 | 66 | 66 | 61 | 57 | 55.3 | 55.2 | 55 | 54.9 | 54.9 | 55.4 | 54.5 | 54.3 | 54 | 53.3 | 52.5 |
| WATER OFFICE | 46 | | 45 | 48 | 54 | 63 | 60 | 63 | 63 | 63 | 56 | 54.9 | 54.3 | 54.3 | 54.3 | 54 | 54.1 | 53.6 | 53.4 | 53 | 52.2 | 51.8 |
| 269 CENTRAL ST (NUNAN'S) | 45 | | 47 | 47 | 53 | 57 | 61 | 70 | 66 | 61 | 56 | 54.2 | 54.9 | 54.8 | 53.6 | 53.9 | 50.7 | 53.6 | 53.8 | 52.6 | 51.8 | 50.6 |
| PENN BROOK SCHOOL | 45 | | 46 | 45 | 47 | 54 | 62 | 68 | 64 | 60 | 56 | 53.6 | 54.3 | 54.5 | 54.3 | 54 | 54.2 | 52.8 | 53.2 | 53 | 52 | 51 |
| HIGH SCHOOL | 46 | | 44 | 47 | 51 | 54 | 65 | 66 | 65 | 60 | 56 | 54.5 | 54.9 | 54.7 | 54.7 | 54.5 | 53.9 | 54 | 53.4 | 53 | 52.5 | 53.1 |
| B&W PRESS | | | 40 | 45 | 57 | 66 | 71 | 76 | 70 | 66 | 58 | | | | | | | | | | | |
| FARM LANE | 45 | 43 | 40 | 43 | 53 | 60 | 67 | 69 | 67 | 65 | 57 | | | | | | | | | | | |
| PATRIOT BOOSTER | 42 | 41 | 40 | 43 | 53 | 58 | 63 | 65 | 64 | 63 | 56 | 54.6 | 54.1 | 54.1 | 53.7 | 54 | 53.7 | 53.3 | 53.3 | 52.8 | 52 | 51.3 |
| PATRIOT OFFICE | 41 | 42 | 41 | 43 | 55 | 60 | 66 | 67 | 66 | 65 | 55 | | | | | | | | | | | |
| ERIE 4 FIRE STATION | 42 | 41 | 39 | 43 | 52 | 58 | 63 | 66 | 64 | 62 | 53 | 53.4 | 53.5 | 53.1 | 52.9 | 52.9 | 52.7 | 52.7 | 52.5 | 51.9 | 51 | 50.1 |
| VFW HALL | | | | | | | | | | 53 | | 51.8 | 51.7 | 52.3 | 52.9 | 52.5 | 51.6 | 50.4 | 51.3 | 51.9 | 50 | 49.6 |
| SOUTH BYFIELD CHURCH | | | | | | | | | | | | 56.6 | | 55.7 | | 55 | 53.9 | | 53.8 | 53.5 | 53.1 | 54.7 |