

Fluridone Water Quality Monitoring Schedule and Results - Summer 2018

| Treatment day | | | | 1 | 3 | 5 | 6 | 8 | 10 | 13 | 20 | 27 | 34 | 41 | 48 | 55 | 62 | 69 | 76 | 83 | 91 | 97 | 104 | 111 | 118 | 125 | 132 | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|----------------------------|------------------------|-----------------------------------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|-----------|-----------|------------|-------|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|----|----|----|----|----|----|
| Date | | | | 6/6/2018 | 6/8/2018 | 6/10/2018 | 6/11/2018 | 6/13/2018 | 6/15/2018 | 6/18/2018 | 6/25/2018 | 7/2/2018 | 7/9/2018 | 7/16/2018 | 7/23/2018 | 7/30/2018 | 8/6/2018 | 8/13/2018 | 8/20/2018 | 8/27/2018 | 9/4/2018 | 9/10/2018 | 9/17/2018 | 9/24/2018 | 10/1/2018 | 10/8/2018 | 10/15/2018 | | | | | | | | | | | | | | | | | | | | | | | | |
| Station | Location | Dye Study First Detect | Target Dose at Lambertville (ppb) | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 2.5 | 2.5 | 2.5 | 2.5 | 0.0 | 0.0 | 0.0 | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Fireman's Eddy Bridge | 4 hours | Reading (ppb) | 3.6 | 3.3 | 2.9 | 3.2 | 2.9 | 3.0 | 2.8 | 2.7 | 3.1 | 2.9 | 3.0 | 3.1 | 3.0 | 3.2 | 3.1 | 2.5 | 2.4 | 3.5 | 2.5 | 2.4 | 2.6 | <1 | <1 | NA | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Time (24hr) | 18:35 | 13:01 | 9:10 | 7:40 | 7:41 | 7:38 | 7:50 | 7:45 | 7:55 | 7:40 | 7:56 | 8:02 | 7:50 | 8:08 | 7:58 | 8:05 | 8:10 | 8:50 | 7:20 | 8:50 | 9:00 | 8:30 | 7:20 | 7:20 | NA | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Washington Crossing Bridge | 24 hours | Reading (ppb) | | 3.0 | 3.2 | 2.8 | 3.0 | 3.2 | 2.8 | 3.1 | 2.9 | 2.8 | 3.1 | 2.4 | 2.8 | 2.7 | 2.6 | 2.4 | 2.8 | 3.1 | 2.5 | 2.4 | 2.4 | 2.4 | <1 | NA | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Time (24hr) | | 13:14 | 9:22 | 7:55 | 8:00 | 7:54 | 8:08 | 8:02 | 8:10 | 8:02 | 8:14 | 8:16 | 8:20 | 8:12 | 8:20 | 8:25 | 9:05 | 7:40 | 9:05 | 8:15 | 8:45 | 7:55 | 7:35 | NA | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Lower Ferry Road | 32 hours | Reading (ppb) | | 3.1 | 2.7 | 2.4 | 2.9 | 2.9 | 2.7 | 3.0 | 2.9 | 3.0 | 2.3 | 2.6 | 3.1 | 2.6 | 3.1 | 2.9 | 2.5 | 3.2 | 3.2 | 2.2 | 2.3 | 2.3 | 2.4 | <1 | NA | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Time (24hr) | | 13:30 | 9:34 | 8:10 | 8:20 | 8:12 | 8:26 | 8:17 | 8:33 | 8:25 | 8:32 | 8:34 | 8:36 | 8:40 | 8:36 | 8:40 | 8:36 | 8:40 | 9:20 | 7:55 | 9:20 | 9:25 | 9:00 | 8:15 | 7:50 | NA | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Carnegie Road | 2 days | Reading (ppb) | | 2.8 | 2.7 | 2.2 | 2.5 | 2.7 | 2.3 | 3.0 | 2.9 | 2.8 | 2.8 | 2.4 | 2.5 | 3.2 | 2.5 | 2.7 | 2.5 | 3.2 | 3.2 | 2.1 | 2.1 | 1.8 | 2.4 | <1 | NA | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Time (24hr) | | 13:55 | 9:55 | 8:34 | 8:46 | 8:38 | 8:52 | 8:42 | 9:00 | 8:58 | 8:58 | 9:00 | 9:02 | 9:10 | 9:00 | 9:10 | 9:00 | 9:10 | 9:40 | 8:15 | 9:45 | 9:50 | 9:20 | 8:40 | 8:15 | NA | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Alexander Road | 3 days | Reading (ppb) | | | 2.6 | 2.1 | 1.9 | 2.4 | 2.2 | 2.3 | 2.6 | 2.5 | 2.6 | 1.9 | 2.7 | 2.5 | 2.3 | 2.2 | 2.3 | 2.9 | 1.7 | 2.2 | 2.1 | 1.4 | <1 | NA | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Time (24hr) | | | 10:10 | 8:55 | 9:12 | 8:58 | 9:15 | 8:58 | 9:21 | 9:22 | 9:20 | 9:17 | 9:20 | 9:30 | 9:26 | 9:30 | 9:50 | 8:35 | 10:00 | 10:05 | 9:40 | 9:00 | 8:30 | NA | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Route 518 | 4 days | Reading (ppb) | | | 2.2 | 2.7 | 1.3 | 2.3 | 2.1 | 2.4 | 2.7 | 2.3 | 2.6 | 2.0 | 2.5 | 2.3 | 2.8 | 1.9 | 3.0 | 2.6 | 2.2 | 2.0 | 1.9 | 1.1 | <1 | NA | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Time (24hr) | | | 10:39 | 9:24 | 9:38 | 9:23 | 9:40 | 9:36 | 9:45 | 9:48 | 9:46 | 9:44 | 9:44 | 9:44 | 9:50 | 9:45 | 9:50 | 10:10 | 9:00 | 10:20 | 10:20 | 10:00 | 9:25 | 8:50 | NA | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Canal Road/Suydam Road | 5 days | Reading (ppb) | | | <1 | ND | 2.4 | 1.5 | 1.7 | 1.5 | 1.9 | 1.6 | 2.0 | 2.1 | 2.2 | 1.8 | 1.7 | 1.4 | 1.4 | 1.1 | 2.5 | 2.0 | 2.0 | 1.9 | 2.0 | 1.9 | 2.0 | 1.9 | 2.5 | 1.8 | 2.4 | 1.8 | 2.3 | 1.7 | 2.1 | 2.50 | 2.7 | 2.10 | 2.2 | 1.50 | 2.0 | 1.40 | 1.5 | 1.00 | <1 | ND | <1 | ND | <1 | ND |
| | | | Time (24hr) | | | 11:06 | 9:40 | 10:02 | 9:40 | 10:00 | 9:55 | 10:18 | 10:17 | 10:16 | 10:14 | 10:20 | 10:40 | 10:10 | 10:20 | 10:40 | 9:15 | 10:50 | 10:50 | 10:50 | 10:30 | 9:40 | 9:05 | 10:40 | NA | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 10 Mile Lock | 7 days | Reading (ppb) | | | <1 | | 1.9 | <1 | 2.0 | 2.1 | 2.4 | 1.9 | 2.6 | 1.6 | 2.0 | 2.1 | 2.1 | 2.4 | 1.8 | 2.1 | 2.8 | 1.3 | 1.4 | 1.0 | <1 | <1 | NA | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Time (24hr) | | | | 10:35 | 10:45 | 10:24 | 10:45 | 10:45 | 10:46 | 10:40 | 10:42 | 10:40 | 10:45 | 11:04 | 10:30 | 10:50 | 11:00 | 10:00 | 11:15 | 11:20 | 10:50 | 10:25 | 9:40 | 11:10 | NA | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | Landing Lane Bridge | 9 days | Reading (ppb) | | | | | <1 | ND | <1 | 1.5 | <1 | 1.1 | 3.8 | 1.5 | 1.8 | 1.7 | 1.5 | 1.4 | 1.5 | 1.4 | 1.9 | 1.7 | 1.7 | 1.0 | 1.3 | 1.1 | 1.6 | 2.00 | 2.4 | 2.00 | 1.9 | 1.50 | 1.8 | 1.20 | 1.7 | 0.84 | 1.3 | 0.80 | 1.5 | 1.30 | <1 | ND | | | | | | | | |
| | | | Time (24hr) | | | | | 11:08 | 10:45 | 11:10 | 11:07 | 11:15 | 11:00 | 11:10 | 11:05 | 11:10 | 11:20 | 10:50 | 11:10 | 11:20 | 10:50 | 11:30 | 11:40 | 11:10 | 10:55 | 10:05 | 11:30 | NA | | | | | | | | | | | | | | | | | | | | | | | |
| Rainfall - Washington Crossing | | | | Inches | 0.00 | 0.00 | 0.52 | 0.65 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.30 | 0.00 | 0.00 | 0.46 | 0.00 | 0.00 | 0.00 | 0.42 | 0.46 | 0.01 | 0.00 | 0.01 | 0.15 | | | | | | | | | | | | | | | | | | | | | | | | |
| Rainfall - Middlesex | | | | Inches | 0.00 | 0.00 | 0.35 | 0.30 | 0.00 | 0.00 | 0.47 | 0.00 | 0.00 | 0.00 | 0.11 | 0.02 | 0.01 | 0.02 | 0.00 | 0.00 | 0.00 | 0.42 | 0.18 | 0.00 | 0.00 | 0.02 | 0.05 | | | | | | | | | | | | | | | | | | | | | | | | |
| Canal Flow at Washington Crossing | | | | mgd | 99.53 | 102.12 | 103.41 | 111.16 | 109.87 | 108.58 | 106.64 | 107.29 | 107.29 | 106.64 | 108.58 | 112.46 | 104.70 | 98.89 | 96.95 | 96.95 | 97.59 | 96.30 | 100.82 | 98.24 | 105.99 | 105.35 | 101.47 | 95.01 | | | | | | | | | | | | | | | | | | | | | | | |
| Canal Flow at Port Mercer | | | | mgd | 95.01 | 96.30 | 96.95 | 94.36 | 96.30 | 96.30 | 95.65 | 96.30 | 96.30 | 102.76 | 97.59 | 89.19 | 97.60 | 97.60 | 99.53 | 95.66 | 98.88 | 100.18 | 97.59 | 100.82 | 99.53 | 96.30 | 98.88 | 96.30 | | | | | | | | | | | | | | | | | | | | | | | |

Note: Expected Test Results Variance is 5-20%

Flow has not yet reached location

ppb Parts per Billion

mgd Million Gallons per Day

x Data not yet available

On days of duplicate readings, a duplicate sample was taken and submitted to a second testing facility(Phoenix Labs EPA 525.3.)

ND Non- Detect

Reporting limit for Phoenix Labs duplicate testing is 0.29 ppb