

Appendix C - Monthly Summaries of Water Quality Monitoring Results

ALLEY CREEK WATER QUALITY DATA SUMMARY

DATE: 6/26/01

| <u>PARAMETER</u> | <u>SITE #1</u> | <u>SITE #2</u> | <u>SITE #3</u> | <u>SITE #4</u> | <u>SITE #5</u> | <u>SITE #6</u> |
|------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| AIR TEMPERATURE (°F) | - | - | - | - | - | 80 |
| WATER TEMPERATURE (°F) | 68 | 54 | 67 | 62 | - | 63 |
| MAX. TEMPERATURE (°F) | - | - | - | - | - | - |
| PH | 6.9 | 6.5 | 6.8 | 7.4 | - | 7.3 |
| CONDUCTIVITY (mS) | 0.5 | 0.3 | 0.5 | 0.6 | - | 0.5 |
| TDS (ppm) | 0.3 | 0.1 | 0.2 | 0.4 | - | 0.3 |
| ORP (mV) | 25 | 46 | - | - | - | 28 |
| DO (ppm) | 9.9 | 5.0 | 8.9 | 8.1 | - | 6.0 |
| TURBIDITY (NTU) | 10.8 | 0.5 | 7.3 | 9.8 | - | 6.0 |
| NITRATES (mg/l) | 1.0 | 1.2 | 0.9 | 0.4 | - | 6.3 |
| PHOSPHATES (mg/l) | 5.0 | 12 | 13 | 20 | - | 18 |
| IRON (mg/l) | 0.6 | 0 | 0.8 | 0.8 | - | 0.6 |
| STREAM FLOW (cfs) | - | - | 1.4 | 2.4 | - | - |

Site #1 = Spring Pond Outfall

Site #2 = Artesian Well

Site #3 = Mid-East Branch

Site #4 = USGS/West Branch

Site #5 = Mid West Branch

Site #6 = Main Branch Stormwater Outlet Pool

ALLEY CREEK WATER QUALITY DATA SUMMARY

DATE: 7/30/01

| <u>PARAMETER</u> | <u>SITE #1</u> | <u>SITE #2</u> | <u>SITE #3</u> | <u>SITE #4</u> | <u>SITE #5</u> | <u>SITE #6</u> |
|------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| AIR TEMPERATURE (°F) | - | 70 | - | - | - | - |
| WATER TEMPERATURE (°F) | 57 | 54 | 57 | 58 | - | 61 |
| MAX. TEMPERATURE (°F) | - | - | - | - | - | - |
| PH | 6.6 | 6.4 | 6.7 | 7.2 | - | 7.1 |
| CONDUCTIVITY (mS) | 0.4 | 0.2 | 0.4 | 0.5 | - | 0.5 |
| TDS (ppm) | 0.2 | 0.1 | 0.1 | 0.2 | - | 0.2 |
| ORP (mV) | 54 | 69 | 20 | 23 | - | 20 |
| DO (ppm) | 5.0 | 5.5 | 7.0 | 7.6 | - | 6.0 |
| TURBIDITY (NTU) | 1.5 | 0.7 | 3.5 | 3.7 | - | 4.7 |
| NITRATES (mg/l) | 0.3 | 1.2 | 0.4 | 0.5 | - | 0.5 |
| PHOSPHATES (mg/l) | 26 | 20 | 15 | 20 | - | 22 |
| IRON (mg/l) | 0.3 | 0 | 0.4 | 0.6 | - | 0.6 |
| STREAMFLOW (cfs) | - | - | 2.5 | 2.0 | - | - |

- Site #1 = Spring Pond Outfall
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- Site #5 = Mid West Branch
- Site #6 = Main Branch Stormwater Outlet Pool

ALLEY CREEK WATER QUALITY DATA SUMMARY

DATE: 8/30/01

| <u>PARAMETER</u> | <u>SITE #1</u> | <u>SITE #2</u> | <u>SITE #3</u> | <u>SITE #4</u> | <u>SITE #5</u> | <u>SITE #6</u> |
|------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| AIR TEMPERATURE (°F) | - | 74 | - | - | - | - |
| WATER TEMPERATURE (°F) | 58 | 54 | 58 | 59 | - | 61 |
| MAX. TEMPERATURE (°F) | - | - | - | - | - | - |
| PH | 6.4 | 6.1 | 6.6 | 7.3 | - | 7.1 |
| CONDUCTIVITY (mS) | 0.4 | 0.2 | 0.1 | 0.5 | - | 0.4 |
| TDS (ppm) | 1.0 | 0.1 | 0.3 | 0.2 | - | 0.6 |
| ORP (mV) | 33 | 101 | 7.5 | 7.7 | - | 4.8 |
| DO (ppm) | 7.0 | 5.8 | 7.5 | 7.7 | - | 4.8 |
| TURBIDITY (NTU) | - | - | - | - | - | - |
| NITRATES (mg/l) | 0.5 | 0.6 | 1.2 | 0.9 | - | 0.5 |
| PHOSPHATES (mg/l) | 22 | 7 | 13 | 5 | - | 20 |
| IRON (mg/l) | 0 | 0 | 0.9 | 1.1 | - | 0.8 |
| STREAM FLOW (cfs) | - | - | 2.5 | 1.9 | - | - |

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ALLEY CREEK WATER QUALITY DATA SUMMARY

DATE: 9/20/01

| <u>PARAMETER</u> | <u>SITE #1</u> | <u>SITE #2</u> | <u>SITE #3</u> | <u>SITE #4</u> | <u>SITE #5</u> | <u>SITE #6</u> |
|------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| AIR TEMPERATURE (°F) | 73 | 73 | 73 | 73 | - | 73 |
| WATER TEMPERATURE (°F) | 59 | 53 | 58 | 66 | - | 69 |
| MAX. TEMPERATURE (°F) | - | - | - | - | - | - |
| PH | 6.5 | 6.1 | 6.3 | 6.5 | - | 6.6 |
| CONDUCTIVITY (mS) | 0.4 | 0.2 | 0.4 | 0.2 | - | 0.1 |
| TDS (ppm) | - | - | - | - | - | - |
| ORP (mV) | 94 | 115 | 47 | 74 | - | - |
| DO (ppm) | 6.2 | 6.0 | 7.6 | 9.0 | - | 8.1 |
| TURBIDITY (NTU) | 2.3 | 0.7 | 6.7 | 96 | - | 38 |
| NITRATES (mg/l) | 0.2 | 1.0 | 1.1 | 0.9 | - | 0 |
| PHOSPHATES (mg/l) | 17.5 | 17 | 13 | 12 | - | 30 |
| IRON (mg/l) | 0.2 | 0 | 0.5 | 4.8 | - | 1.6 |
| STREAMFLOW (cfs) | - | - | 2.3 | 8.8 | - | - |

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