

LWA Master Sampling Data
Unity

8/22/2011

| Date | General Information | | | | Lab Results | | | | | | | | | | | Field Results | | | | |
|----------|---------------------|------------|------------|-----|-------------------|--------------------|-------------------|---------------------|------------------|-----------------|----------------|-------------------------------|-------------------------------|--------------------|----------------------|---------------|-------------------------|-------------------|-------------------------|--|
| | Time | Collector | Flow (gpm) | pH | Alkalinity (mg/L) | Hot Acidity (mg/L) | Total Iron (mg/L) | Ferrous Iron (mg/L) | Manganese (mg/L) | Aluminum (mg/L) | Sulfate (mg/L) | Total Suspended Solids (mg/L) | Total Dissolved Solids (mg/L) | Fe loading (g/day) | Fe loading (lbs/day) | pH | Temperature (degrees C) | Conductivity (mS) | Dissolved Oxygen (mg/L) | Weather Conditions/ Comments |
| 10/22/97 | | Americorps | NA | 6.1 | 162.3 | 0 | 0.3 | NA | 0.2 | 0.16 | 33 | | | | | | | | | |
| 7/1/99 | | DEP | NA | 6.4 | 70 | 0 | 15.2 | 15.5 | 2.59 | 0.5 | 322 | 60 | | | | | | | | |
| 12/19/01 | | Americorps | NA | | | | | | | | | | | | | | | | | |
| 1/25/02 | | Americorps | | | | | | | | | | | | | | | | | | No flow from discharge |
| 2/19/02 | 11:47 AM | Americorps | 79 | 6.2 | 96.0 | 24.8 | 35.0 | 31.1 | 4.50 | 0.200 | 474 | 36 | | 15069 | 33.2 | 6.3 | 12.9 | 1158 | 2.06 | Clear, 40-50's |
| 3/25/02 | 10:44 AM | Americorps | NA | 6.1 | 106.0 | 22.4 | 35.4 | 30.82 | 4.02 | 0.200 | 557 | 14 | | | | 6.1 | 12.6 | 1321 | 2.26 | Overcast, 40's: flow too strong to capture |
| 4/24/02 | 10:08 AM | Americorps | NA | 6.1 | 116.0 | | 39.3 | 40.45 | 4.78 | 0.200 | 471 | 2 | | | | 6.5 | 13.0 | 1141 | 1.47 | Flow resembled AVP force, bigger pipe |
| 5/28/02 | 11:30 AM | Americorps | NA | 6.1 | 120.0 | | 41.0 | 32.58 | 4.01 | 0.200 | 459 | 2 | | | | 6.3 | 13.2 | 988 | 1.97 | Strongest Flow yet |
| 6/25/02 | 11:00 AM | Americorps | NA | 6.2 | 114.0 | | 37.6 | 40.44 | 3.75 | 0.200 | 475 | 2 | | | | 6.3 | 13.8 | 854 | 1.48 | |
| 7/23/02 | 9:23 AM | Americorps | NA | 6.2 | 110.0 | | 34.5 | 28.44 | 3.83 | 0.200 | 584 | 2 | | | | 5.8 | 13.3 | 924 | 1.86 | |
| 8/30/02 | 11:20 AM | Americorps | 105.9 | 6.2 | 96.0 | 6.8 | 33.4 | 34.46 | 3.62 | 0.200 | 476 | 12 | | 19277 | 42.5 | 0.0 | 13.3 | 1016 | 1.90 | |
| 9/26/02 | 11:38 AM | Americorps | 3.5 | 6.4 | 98.0 | 15.6 | 34.1 | 29.28 | 3.73 | 0.200 | 465 | 12 | | 650 | 1.4 | 5.8 | 14.7 | 1157 | | |
| 10/24/02 | 2:13 PM | Americorps | 23.6 | 6.1 | 88.0 | 28.6 | 29.8 | 27.40 | 3.72 | 0.200 | 627 | 6 | | 3833 | 8.5 | 5.6 | 12.8 | 1286 | 3.22 | |
| 11/26/02 | 11:02 AM | Americorps | 91.6 | 6.1 | 100.0 | 10.8 | 33.5 | 2.91 | 4.01 | 0.200 | 520 | 2 | | 16724 | 36.9 | 6.4 | 12.7 | 499 | 0.71 | |
| 12/20/02 | 11:06 AM | Americorps | NA | 6.2 | 102.8 | 21.2 | 33.7 | 30.43 | 3.9 | 0.200 | 571 | 12 | | | | 6.2 | 12.5 | 379 | | flow too large to measure |
| 1/30/03 | 2:18 PM | Americorps | NA | 6.2 | 120.6 | | 36.4 | 30.00 | 3.78 | 0.200 | 470 | 12 | | | | 5.7 | 12.7 | 1322 | 2.40 | flow too large to measure |
| 3/25/03 | 11:12 AM | Americorps | NA | 6.3 | 116.0 | | 34.8 | 36.58 | 3.66 | 0.200 | 513 | 2 | | | | 5.7 | 13.0 | 1294 | 2.73 | |
| 5/12/03 | pm | Americorps | NA | 6.2 | 107.2 | | 30.4 | 16.91 | 3.67 | 0.200 | 454 | 8 | | | | 6.1 | 12.8 | 1291 | | |
| 6/3/03 | pm | Americorps | NA | 6.2 | 105.4 | 5.2 | 30.5 | 26.16 | 3.45 | 0.200 | 435 | 2 | | | | 6.6 | 12.8 | 1253 | 2.76 | |
| 8/25/03 | pm | LWA | NA | 6.2 | 110.8 | | 28.4 | 11.53 | 3.473 | 0.200 | 442 | 8 | | | | 6.0 | 13.2 | 1000 | 2.40 | Sunny, 80's |
| 11/24/03 | pm | LWA | NA | 6.2 | 108.0 | | 30.7 | 30.58 | 3.42 | 0.200 | 458 | 6 | | | | 5.9 | | | | |
| 2/23/04 | pm | LWA | NA | 6.2 | 94.0 | -10.4 | 24.8 | 20.91 | 3.45 | 0.200 | 441 | 8 | | | | 5.8 | | | | |
| 5/24/04 | PM | LWA | NA | 6.1 | 87.8 | -0.6 | 20.4 | 0.00 | 2.83 | 0.200 | 405 | 22 | | | | | | | | |
| 8/23/04 | | | NA | 6.2 | 102.2 | -21.6 | 24.5 | 25.64 | 3.42 | 0.500 | 454 | 10 | | | | | | | | |
| 12/17/04 | pm | CW,JH | NA | 6.2 | 94.8 | -10.4 | 19.8 | 26.27 | 2.91 | 0.500 | 486 | 3 | | | | 6.1 | | | | |
| 5/9/05 | am | JH,CW,VP | NA | 6.4 | 92.4 | -16 | 16.5 | 19.00 | 2.79 | 0.500 | 440 | 3 | | | | 5.8 | | | | |
| 11/8/05 | | SH, AL | NA | 6.2 | 99.2 | -12.8 | 24.9 | 26.4 | 2.9 | <.5 | 497.5 | 14.0 | | | | 6.0 | 13.0 | 1062 | 1.86 | |
| 1/17/06 | | SH, AL | 106.2 | 6.3 | 112.2 | -12.8 | 26.7 | 26.4 | 3.6 | <.5 | 532.4 | <3 | | 15454 | 34.1 | ns | 10.2 | 1015 | | |
| 4/24/06 | pm | SH, CJ | 91.6 | 6.3 | 109.4 | -25.8 | 26.4 | 28.8 | 3.0 | <.5 | 475.6 | 6.0 | | 13179 | 29.1 | 5.8 | 12.9 | 1226 | ns | |
| 7/20/06 | am | SH, CJ | 101.0 | 6.3 | 95.4 | -46.6 | 26.0 | 29.4 | 3.3 | <.5 | 422.9 | <3 | | 14323 | 31.6 | 5.9 | 13.7 | 1214 | 1.20 | Sunny - Humid |
| 10/31/06 | am | SH, CJ | 110.0 | 6.3 | 104.0 | -43.6 | 26.9 | 30.9 | 3.3 | <.5 | 434.1 | 4.0 | | 16127 | 35.6 | 5.6 | 12.4 | 1338 | 1.14 | Partly Cloudy |
| 1/22/07 | am | SH, CJ | 135.0 | 6.2 | 85.0 | -45.4 | 32.6 | 29.5 | 3.0 | <.5 | 450.9 | 12.0 | | 23979 | 52.9 | 6.2 | 11.4 | 1315 | 1.12 | Hazy, Snow |
| 5/23/07 | am | SH, CJ | | 6.3 | 103.0 | -23.4 | 25.3 | 22.9 | 3.6 | <.5 | 434.2 | 4.0 | | 0 | 0.0 | 6.0 | 14.4 | 1298 | 1.30 | Sunny, Humid |
| 7/26/07 | pm | SH, CJ | ns | 6.2 | 65.8 | -18.2 | 25.6 | 26.1 | 3.4 | <.5 | 430.6 | 16.0 | | | | 6.1 | 14.5 | 1277 | ns | Sunny, no recent rain |
| 10/24/07 | pm | SH, CJ | ns | 6.2 | 112.2 | -9.0 | 27.4 | 28.5 | 3.3 | <.5 | 495.3 | <3 | | | | 6.0 | 12.9 | 1286 | 1.55 | Very Low, light rain, lower 50's |
| 1/28/08 | pm | CJ, DB | ns | 6.4 | 105.6 | -45.8 | 24.0 | 25.0 | 3.1 | <.5 | 404.8 | <3 | | | | 5.8 | 13.2 | 1279 | 0.96 | Snow, Sunny, Mid 40's |
| 4/21/08 | pm | CJ, JJ | ns | 6.3 | 88.4 | -39.8 | 18.0 | 19.0 | 2.9 | <.5 | 344.5 | 10.0 | | | | 5.3 | 12.2 | 1270 | 0.47 | Cloudy, 60's recent rain |
| 7/28/08 | pm | CJ, AB | ns | 6.3 | 97.4 | -49.2 | 20.3 | 20.7 | 3.0 | <.5 | 423.0 | 8.0 | | | | 5.6 | 14.1 | 1296 | 1.70 | Sunny, high 70's |
| 10/28/08 | pm | SH, CJ | ns | | | | | | | | | | | | | | | | | No flow from discharge |
| 4/27/09 | pm | SH, CJ | ns | 6.2 | 78.0 | -24.2 | 18.4 | 18.5 | 3.0 | <.5 | 428.7 | 10.0 | | | | 5.9 | 13.8 | 1194 | 0.90 | recent rain |
| 10/5/09 | pm | SH, CJ | ns | | | | | | | | | | | | | | | | | No flow from discharge |
| 7/27/10 | pm | SH, CJ | ns | 6.1 | 46.0 | 0.8 | 16.4 | 15.2 | 3.6 | <.5 | 483.0 | <5 | 882.0 | | | 5.7 | 22.2 | 950 | 0.03 | |

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|-------|----------|-------|-----|-------|-------|------|------|-----|-----|-------|------|--|--|---------|------|-----|------|------|---|
| Unity | Averages | 84.7 | 6.2 | 101.9 | -11.8 | 29.1 | 26.0 | 3.5 | 0.2 | 471.2 | 8.7 | | | 12601.4 | 27.8 | 5.8 | 13.0 | 1134 | 2 |
| | St. Dev. | 40.6 | 0.1 | 11.4 | 24.5 | 6.2 | 8.7 | 0.5 | 0.1 | 55.9 | 7.3 | | | 7742.5 | 17.1 | 1.1 | 0.9 | 240 | 1 |
| | Min | 3.5 | 6.1 | 65.8 | -49.2 | 16.5 | 0.0 | 2.8 | 0.2 | 344.5 | 2.0 | | | 0.0 | 0.0 | 0.0 | 10.2 | 379 | 0 |
| | Max | 135.0 | 6.4 | 120.6 | 28.6 | 41.0 | 40.5 | 4.8 | 0.5 | 627.4 | 36.0 | | | 23978.8 | 52.9 | 6.6 | 14.7 | 1338 | 3 |

Lat - N40.31130 - Long - W79.39231