

FIELD DATA - Measurements taken on site, 2008**PLC001 - Primary Lower Cottonwood River near New Ulm - Non-impacted stream/Western Corn Belt Plains****STORET CODE - S001-918**

| Flow Type | Date | FLOW | Time | Temp © | DO | pH | TT 1 |
|---------------|------------|------|-------|--------|-------|------|------|
| Base Flow | 1/15/2008 | | 11:15 | 0.1 | 13.42 | 8.21 | 60+ |
| Base Flow | 2/13/2008 | | 10:50 | 0.2 | 11.37 | 7.96 | 60+ |
| Base Flow | 3/4/2008 | | 10:40 | 0.2 | 11.57 | 8.02 | 60+ |
| Base Flow | 4/8/2008 | | 14:05 | 6.8 | 12.42 | 8.44 | 23.4 |
| Snowmelt/Tile | 4/16/2008 | | 13:15 | 12.3 | 11.08 | 8.48 | 22.1 |
| Snowmelt/Tile | 4/21/2008 | | 12:00 | 13.5 | 10.78 | 8.55 | 27.4 |
| Storm Flow | 4/28/2008 | | 13:15 | 6.0 | 12.43 | 8.49 | 6.6 |
| Storm Flow | 5/3/2008 | | 12:15 | 9.1 | 11.12 | 8.43 | 3.2 |
| Storm Flow | 5/6/2008 | | 12:40 | 11.6 | 10.02 | 8.41 | 7.4 |
| Base Flow | 5/21/2008 | | 13:20 | 16.5 | 11.30 | 8.46 | 22.3 |
| Storm Flow | 6/6/2008 | | 13:15 | 17.0 | 8.44 | 8.21 | 3.6 |
| Storm Flow | 6/9/2008 | | 12:30 | 17.7 | 8.98 | 8.34 | 9.2 |
| Storm Flow | 6/13/2008 | | 11:10 | 17.7 | 8.74 | 8.37 | 6.8 |
| Base Flow | 6/26/2008 | | 12:15 | 22.5 | 8.57 | 8.30 | 22.0 |
| Base Flow | 7/9/2008 | | 11:15 | 25.0 | 10.18 | 8.44 | 25.2 |
| Base Flow | 7/31/2008 | | 13:50 | 28.0 | 12.20 | 8.96 | 20.6 |
| Base Flow | 8/6/2008 | | 12:40 | 27.5 | 9.58 | 8.61 | 34.9 |
| Base Flow | 8/25/2008 | | 14:40 | 25.8 | 8.60 | 8.37 | 33.2 |
| Base Flow | 9/16/2008 | | 11:30 | 17.8 | 10.81 | 8.47 | 21.2 |
| Base Flow | 9/30/2008 | | 11:40 | 15.2 | 10.45 | 8.38 | 60+ |
| Base Flow | 10/31/2008 | | 10:50 | 7.5 | 12.67 | 8.37 | 60+ |
| Base Flow | 11/25/2008 | | 11:30 | 0.1 | 15.75 | 8.42 | 60+ |
| Base Flow | 12/30/2008 | | 11:55 | 0 | 12.90 | 7.85 | 60+ |

FIELD DATA - Measurements taken on site, 2008**PLS005 - Primary Lower Sleepy Eye Creek near Cobden - Non-impacted stream/Western Corn Belt Plains****STORET CODE - S001-919**

| Flow Type | Date | FLOW | Time | Temp © | DO | pH | TT 1 |
|------------|-----------|------|-------|--------|-------|------|------|
| Base Flow | 4/8/2008 | | 13:15 | 7.4 | 13.80 | 8.56 | 60+ |
| Base Flow | 4/18/2008 | | 11:40 | 7.8 | 11.28 | 8.46 | 60+ |
| Storm Flow | 4/28/2008 | | 12:25 | 5.1 | 12.74 | 8.36 | 52.4 |
| Storm Flow | 5/3/2008 | | 11:20 | 5.7 | 11.56 | 8.17 | 11.3 |
| Storm Flow | 5/6/2008 | | 12:00 | 9.9 | 11.10 | 8.21 | 60+ |
| Base Flow | 5/21/2008 | | 12:35 | 13.4 | 13.95 | 8.52 | 60+ |
| Storm Flow | 6/6/2008 | | 12:30 | 13.8 | 8.85 | 8.34 | 10.2 |
| Storm Flow | 6/9/2008 | | 11:50 | 15.2 | 9.71 | 8.22 | 33.2 |
| Storm Flow | 6/13/2008 | | 10:25 | 15.2 | 9.01 | 8.16 | 27.2 |
| Base Flow | 6/26/2008 | | 11:30 | 20.7 | 8.29 | 8.28 | 38.0 |
| Base Flow | 7/9/2008 | | 10:35 | 22.4 | 8.11 | 8.31 | 39.3 |
| Base Flow | 7/31/2008 | | 13:10 | 25.9 | 17.37 | 8.90 | 15.2 |
| Base Flow | 8/6/2008 | | 12:00 | 24.7 | 16.15 | 8.98 | 17.0 |
| Base Flow | 8/25/2008 | | 13:45 | 21.5 | 10.25 | 8.43 | 45.8 |
| Base Flow | 9/16/2008 | | 10:30 | 15.2 | 9.55 | 8.31 | 56.8 |
| Base Flow | 9/30/2008 | | 10:45 | 13.3 | 7.32 | 8.17 | 56.6 |

FIELD DATA - Measurements taken on site, 2008**PLC010 - Primary Lower Cottonwood River near Leavenworth - Non-impacted stream/Western Corn Belt Plains****STORET CODE - S001-920**

| Flow Type | Date | FLOW | Time | Temp © | DO | pH | TT 1 |
|---------------|-----------|------|-------|--------|-------|------|------|
| Base Flow | 4/8/2008 | | 13:00 | 6.7 | 12.42 | 8.41 | 31.9 |
| Snowmelt/Tile | 4/16/2008 | | 12:30 | 11.0 | 10.98 | 8.41 | 26.2 |
| Snowmelt/Tile | 4/21/2008 | | 10:55 | 12.4 | 10.57 | 8.49 | 22.7 |
| Storm Flow | 4/28/2008 | | 12:10 | 6.0 | 12.13 | 8.43 | 11.0 |
| Storm Flow | 5/3/2008 | | 11:10 | 8.3 | 10.93 | 8.35 | 8.3 |
| Storm Flow | 5/6/2008 | | 11:50 | 11.6 | 10.33 | 8.43 | 14.7 |
| Base Flow | 5/21/2008 | | 12:20 | 15.2 | 9.92 | 8.34 | 26.2 |
| Storm Flow | 6/6/2008 | | 12:15 | 16.2 | 8.82 | 8.21 | 11.3 |
| Storm Flow | 6/9/2008 | | 11:40 | 17.4 | 8.76 | 8.27 | 9.8 |
| Storm Flow | 6/13/2008 | | 10:15 | 17.9 | 8.33 | 8.26 | 5.4 |
| Base Flow | 6/26/2008 | | 11:05 | 21.8 | 8.05 | 8.30 | 20.1 |
| Base Flow | 7/9/2008 | | 10:20 | 22.8 | 9.52 | 8.36 | 43.5 |
| Base Flow | 7/31/2008 | | 12:55 | 26.6 | 9.22 | 8.35 | 35.6 |
| Base Flow | 8/6/2008 | | 11:50 | 25.2 | 12.33 | 8.57 | 36.4 |
| Base Flow | 8/25/2008 | | 13:15 | 23.5 | 12.48 | 8.43 | 25.7 |
| Base Flow | 9/16/2008 | | 10:10 | 15.2 | 11.85 | 8.52 | 22.6 |
| Base Flow | 9/30/2008 | | 10:20 | 13.9 | 9.34 | 8.32 | 31.1 |

FIELD DATA - Measurements taken on site, 2008**PMC020 - Primary Middle Cottonwood River near Lambertton - Non-impacted stream/Western Corn Belt Plains****STORET CODE - S002-247**

| Flow Type | Date | FLOW | Time | Temp © | DO | pH | TT 1 |
|---------------|-----------|------|-------|--------|-------|------|------|
| Base Flow | 4/8/2008 | | 12:15 | 5.9 | 13.03 | 8.38 | 33.1 |
| Snowmelt/Tile | 4/16/2008 | | 11:50 | 10.0 | 11.11 | 8.41 | 30.6 |
| Snowmelt/Tile | 4/18/2008 | | 10:50 | 8.3 | 10.84 | 8.36 | 13.8 |
| Snowmelt/Tile | 4/21/2008 | | 10:15 | 11.9 | 10.45 | 8.44 | 27.4 |
| Storm Flow | 4/28/2008 | | 11:30 | 5.6 | 12.12 | 8.39 | 11.3 |
| Storm Flow | 5/3/2008 | | 10:30 | 7.5 | 11.11 | 8.39 | 14.7 |
| Storm Flow | 5/6/2008 | | 11:15 | 11.5 | 10.41 | 8.39 | 21.6 |
| Base Flow | 5/21/2008 | | 11:40 | 13.9 | 10.12 | 8.32 | 34.6 |
| Storm Flow | 6/6/2008 | | 11:40 | 16.0 | 8.96 | 8.22 | 26.4 |
| Storm Flow | 6/9/2008 | | 11:05 | 17.3 | 8.51 | 8.25 | 13.7 |
| Storm Flow | 6/13/2008 | | 9:35 | 16.7 | 8.24 | 8.23 | 9.2 |
| Base Flow | 6/26/2008 | | 10:30 | 21.4 | 7.57 | 8.18 | 21.2 |
| Base Flow | 7/8/2008 | | 13:10 | 25.0 | 7.59 | 8.28 | 30.5 |
| Base Flow | 7/31/2008 | | 12:15 | 26.5 | 7.62 | 8.28 | 20.1 |
| Base Flow | 8/6/2008 | | 11:15 | 24.4 | 9.16 | 8.39 | 25.8 |
| Base Flow | 8/25/2008 | | 12:25 | 21.2 | 10.51 | 8.28 | 34.1 |
| Base Flow | 9/16/2008 | | 9:15 | 14.9 | 9.16 | 8.33 | 28.6 |
| Base Flow | 9/30/2008 | | 9:40 | 12.6 | 6.85 | 7.98 | 35.7 |

FIELD DATA - Measurements taken on site, 2008**TUP - Tertiary Plum Creek near Walnut Grove - Non-impacted stream/Western Corn Belt Plains****STORET CODE - S001-913**

| Flow Type | Date | FLOW | Time | Temp © | DO | pH | TT 1 |
|------------------|-------------|-------------|-------------|---------------|-----------|-----------|-------------|
| Base Flow | 4/8/2008 | | 11:20 | 5.3 | 12.61 | 8.33 | 60+ |
| Snowmelt/Tile | 4/16/2008 | | 11:30 | 9.6 | 10.71 | 8.38 | 11.3 |
| Snowmelt/Tile | 4/18/2008 | | 10:30 | 6.8 | 11.75 | 8.49 | 37.4 |
| Storm Flow | 4/28/2008 | | 11:00 | 5.3 | 12.52 | 8.43 | 13.5 |
| Storm Flow | 5/3/2008 | | 10:00 | 6.0 | 11.92 | 8.36 | 9.8 |
| Storm Flow | 5/6/2008 | | 10:40 | 11.0 | 10.61 | 8.43 | 21.8 |
| Base Flow | 5/21/2008 | | 11:00 | 12.5 | 9.23 | 8.34 | 41.2 |
| Storm Flow | 6/6/2008 | | 10:55 | 14.7 | 8.62 | 8.09 | 6.2 |
| Storm Flow | 6/9/2008 | | 10:40 | 15.5 | 9.27 | 8.30 | 11.6 |
| Storm Flow | 6/13/2008 | | 9:15 | 15.5 | 9.05 | 8.28 | 16.2 |
| Base Flow | 6/26/2008 | | 9:50 | 19.4 | 8.18 | 8.24 | 43.0 |
| Base Flow | 7/8/2008 | | 12:20 | 23.9 | 9.19 | | |
| Base Flow | 7/31/2008 | | 11:35 | 23.8 | 8.21 | 8.26 | 53.0 |
| Base Flow | 8/6/2008 | | 10:30 | 21.7 | 10.04 | 8.31 | 60+ |
| Base Flow | 8/25/2008 | | 11:00 | 17.7 | 7.50 | 7.85 | 60+ |
| Base Flow | 9/16/2008 | | 8:10 | 12.4 | 6.89 | 7.96 | 60+ |
| Base Flow | 9/30/2008 | | 8:25 | 11.8 | 4.47 | 7.80 | 60+ |