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Sent: Sunday, April 25, 2010 9:07 PM
Subject: Lake Water Quality 2009 Annual Report

Lake Water Quality 2009 Annual Report

Loon Lake
 Shawano County
 Waterbody Number: 323800

Lake Type: DRAINAGE
 DNR Region: NE
 GEO Region: SE

| Site Name | Storet # |
|-----------------------|----------|
| Loon Lake - Deep Hole | 593002 |

| Date | SD (ft) | SD (m) | Hit Bottom | CHL | TP | TSI (SD) | TSI (CHL) | TSI (TP) | Lake Level | Clarity | Color | Perceptic |
|------------|------------|-----------|---------------|-----|----|-------------|--------------|-------------|---------------|---------|-------|--|
| 04/15/2009 | 5.25 | 1.6 | NO | | | 53 | | | LOW | CLEAR | BROWN | 2-Very minor aesthetic problems |
| 04/28/2009 | 5.25 | 1.6 | NO | | | 53 | | | NORMAL | CLEAR | BROWN | 2-Very minor aesthetic problems |
| 05/02/2009 | 5.25 | 1.6 | NO | | | 53 | | | NORMAL | CLEAR | BROWN | 2-Very minor aesthetic problems |
| 05/12/2009 | 5.25 | 1.6 | NO | | | 53 | | | NORMAL | CLEAR | BROWN | 2-Very minor aesthetic problems |
| 05/22/2009 | 4.75 | 1.4 | NO | | | 55 | | | NORMAL | MURKY | BROWN | 3- Enjoymen somewha impaired (algae) |
| 05/29/2009 | 5.75 | 1.8 | NO | | | 52 | | | HIGH | CLEAR | BROWN | 2-Very minor aesthetic problems |
| 06/11/2009 | 5.5 | 1.7 | NO | | | 53 | | | NORMAL | MURKY | BROWN | 2-Very minor aesthetic problems |

| | | | | | | | | | | |
|------------|------|-----|----|--|----|--|--------|-------|-------|---------------------------------|
| 06/22/2009 | 5 | 1.5 | NO | | 54 | | NORMAL | MURKY | BROWN | 2-Very minor aesthetic problems |
| 07/05/2009 | 5 | 1.5 | NO | | 54 | | LOW | MURKY | BROWN | 2-Very minor aesthetic problems |
| 07/19/2009 | 4 | 1.2 | NO | | 57 | | LOW | MURKY | BROWN | 2-Very minor aesthetic problems |
| 07/28/2009 | 5.5 | 1.7 | | | 53 | | LOW | CLEAR | BROWN | 2-Very minor aesthetic problems |
| 08/08/2009 | 6.5 | 2 | NO | | 50 | | LOW | CLEAR | BROWN | 2-Very minor aesthetic problems |
| 08/19/2009 | 5.5 | 1.7 | NO | | 53 | | LOW | CLEAR | BROWN | 2-Very minor aesthetic problems |
| 08/27/2009 | 4.75 | 1.4 | | | 55 | | LOW | CLEAR | BROWN | 2-Very minor aesthetic problems |
| 09/13/2009 | 7 | 2.1 | NO | | 49 | | LOW | CLEAR | BROWN | 1-Beautiful, could not be nicer |

| 05/22/2009 | | |
|------------|-----------|------|
| Depth | Temp. | D.O. |
| FEET | DEGREES F | MG/L |
| 3 | 64.3 | 9.25 |
| 6 | 64.2 | 9.23 |
| 9 | 64 | 9.14 |
| 10 | 63.9 | 9.11 |
| 15 | 62.3 | 7.76 |

| 05/29/2009 | | |
|------------|-----------|------|
| Depth | Temp. | D.O. |
| FEET | DEGREES F | MG/L |
| 3 | 62.3 | 8.57 |
| 6 | 61.9 | 8.52 |
| 9 | 61.4 | 8.28 |
| 10 | 61.2 | 8.26 |
| 15 | 60.4 | 7.48 |

| 06/11/2009 | | |
|------------|-----------|------|
| Depth | Temp. | D.O. |
| FEET | DEGREES F | MG/L |
| 3 | 60.3 | 7.7 |
| 6 | 60.1 | 7.55 |
| 9 | 60 | 7.49 |
| 10 | 59.9 | 7.46 |
| 15 | 59.7 | 7.42 |

| 06/22/2009 | | |
|------------|-----------|------|
| Depth | Temp. | D.O. |
| FEET | DEGREES F | MG/L |

| 07/05/2009 | | |
|------------|-----------|------|
| Depth | Temp. | D.O. |
| FEET | DEGREES F | MG/L |

| 07/19/2009 | | |
|------------|-----------|------|
| Depth | Temp. | D.O. |
| FEET | DEGREES F | MG/L |

| | | |
|----|------|------|
| 3 | 78.7 | 8.08 |
| 6 | 78.2 | 8.04 |
| 9 | 69 | 4.28 |
| 10 | 64.9 | 3.89 |
| 15 | 59.6 | .2 |

| | | |
|----|------|------|
| 3 | 73 | 8.89 |
| 6 | 72.8 | 8.85 |
| 9 | 68.7 | 6.79 |
| 10 | 68.2 | 6.48 |
| 15 | 59.7 | .11 |

| | | |
|----|------|------|
| 3 | 69.2 | 7.72 |
| 6 | 68.8 | 7.74 |
| 9 | 68.5 | 7.49 |
| 10 | 68.4 | 7.16 |
| 15 | 64.9 | .17 |

| 07/28/2009 | | |
|------------|-----------|------|
| Depth | Temp. | D.O. |
| FEET | DEGREES F | MG/L |
| 3 | 74.6 | 7.74 |
| 6 | 73 | 6.63 |
| 9 | 70.7 | 4.44 |
| 10 | 69 | 2.82 |
| 15 | 67.7 | .1 |

| 08/08/2009 | | |
|------------|-----------|------|
| Depth | Temp. | D.O. |
| FEET | DEGREES F | MG/L |
| 3 | 72.9 | 7.99 |
| 6 | 71.4 | 7.72 |
| 9 | 70.9 | 7.05 |
| 10 | 70.8 | 6.97 |
| 15 | 67.7 | .08 |

| 08/19/2009 | | |
|------------|-----------|------|
| Depth | Temp. | D.O. |
| FEET | DEGREES F | MG/L |
| 3 | 74 | 7.95 |
| 6 | 74.1 | 7.83 |
| 9 | 74.1 | 7.64 |
| 10 | 74.2 | 7.6 |
| 15 | 67.2 | .17 |

| 08/27/2009 | | |
|------------|-----------|------|
| Depth | Temp. | D.O. |
| FEET | DEGREES F | MG/L |
| 3 | 71.8 | 8.97 |
| 6 | 71.3 | 8.82 |
| 9 | 70 | 7.73 |
| 10 | 69.3 | 5.95 |
| 15 | 66.8 | .19 |

| 09/13/2009 | | |
|------------|-----------|------|
| Depth | Temp. | D.O. |
| FEET | DEGREES F | MG/L |
| 3 | 74.2 | 9.21 |
| 6 | 71.9 | 8.26 |
| 9 | 69.2 | 6.99 |
| 10 | 68.1 | 6.72 |
| 15 | 65.4 | .15 |

| Date | Data Collectors | Project |
|------------|-----------------|--|
| 04/15/2009 | Lloyd Knope | Citizen Lake Monitoring - Water Quality - Loon Lake; Deep Hole |
| 04/28/2009 | Lloyd Knope | Citizen Lake Monitoring - Water Quality - Loon Lake; Deep Hole |
| 05/02/2009 | Lloyd Knope | Citizen Lake Monitoring - Water Quality - Loon Lake; Deep Hole |
| 05/12/2009 | Lloyd Knope | Citizen Lake Monitoring - Water Quality - Loon Lake; Deep Hole |
| 05/22/2009 | Lloyd Knope | Citizen Lake Monitoring - Water Quality - Loon Lake; Deep Hole |
| 05/29/2009 | Lloyd Knope | Citizen Lake Monitoring - Water Quality - Loon Lake; Deep Hole |
| 06/11/2009 | Lloyd Knope | Citizen Lake Monitoring - Water Quality - Loon Lake; Deep Hole |
| 06/22/2009 | Lloyd Knope | Citizen Lake Monitoring - Water Quality - Loon Lake; Deep Hole |
| 07/05/2009 | Lloyd Knope | Citizen Lake Monitoring - Water Quality - Loon Lake; Deep |

| | | |
|------------|-------------|--|
| 07/19/2009 | Lloyd Knope | Hole Citizen Lake Monitoring - Water Quality - Loon Lake; Deep Hole |
| 07/28/2009 | Lloyd Knope | Citizen Lake Monitoring - Water Quality - Loon Lake; Deep Hole |
| 08/08/2009 | Lloyd Knope | Citizen Lake Monitoring - Water Quality - Loon Lake; Deep Hole |
| 08/19/2009 | Lloyd Knope | Citizen Lake Monitoring - Water Quality - Loon Lake; Deep Hole |
| 08/27/2009 | Lloyd Knope | Citizen Lake Monitoring - Water Quality - Loon Lake; Deep Hole |
| 09/13/2009 | Lloyd Knope | Citizen Lake Monitoring - Water Quality - Loon Lake; Deep Hole |

SD = Secchi depth measured in feet converted to meters; Chl = Chlorophyll a in micrograms per liter(ug/l); TP = Total phosphorus in ug/l, surface sample only; TSI(SD), TSI(CHL), TSI (TP) = Trophic state index based on SD, CHL, TP respectively; Depth measured in feet.

Wisconsin Department of Natural Resources

Wisconsin Lakes Partnership

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