

## Wisconsin Department of Natural Resources SWIMS Project Summary

### General Project Information

- Project ID:** NOR\_06\_CMP14-Year2
- Name:** Crex Meadows Assessment - NOR\_06\_CMP14
- Type:** Targeted Watershed Approach
- Subtype:** Evaluation (TP SSC, Stressor, Bioassess)
- Status:** COMPLETE
- Start Date:** 01/01/2014
- End Date:** 12/31/2014
- Purpose:** Crex Meadows Wildlife Area is located in Burnett County north of Grantsburg. Since 1945, the DNR has constructed more than 18 miles of dikes to restore 15,000 acres of wetland wildlife habitat and 5,000 acres of deepwater marshes. Drainage flows to the south via 3 tributaries to the North Fork Wood River and Wood River. The Wood River drains to the St. Croix River which is a National Wild and Scenic River. Lake St. Croix is located downstream. A TMDL project is underway for the Lake St. Croix watershed. Wisconsin and Minnesota are working cooperatively on the project with a goal of improving water quality, and especially reducing phosphorus loading. The DNR and Burnett County LWCD receive inquiries about high turbidity caused by iron floc (iron hydroxide) in waters downstream of Crex Meadows. Turbidity plumes are often present at the mouth of the Wood River and into the St. Croix River. Crex Meadows is located in an area with naturally occurring iron deposits. Water level manipulations, including periodic draining and filling of flowages have resulted in mobilization of iron, which is sensitive to oxidation/reduction cycling. Groundwater data from a USGS study shows that groundwater iron concentrations downgradient of the flowages can be 18 times higher than upgradient of the flowages (see attached report). Phosphorus export may also be a concern because phosphorus is often mobilized along with iron. One sample of flowage discharge had a TP concentration of 163 ug/l. This project will: 1. Assess iron distribution and transport. 2. Establish a baseline for the current quality of water discharges. 3. Explore management options that could improve downstream water quality. Monitoring will be conducted in 2014. Craig Roesler will be the lead staff person.
- Objective:** Local water quality impacts include iron floc turbidity, phosphorus export and biological impairments. This project may identify management options within the watershed that can improve downstream water quality. A targeted watershed assessment will be coupled with this project to provide biological data for the receiving streams. Three discharge streams will be monitored - Hay Ck, 2643000; Whiskey Ck, 2646600; Unnamed trib, 2647100. Flowages that may be monitored include - Phantom Flowage, 2144100; North Fork Flowage, 2647300; South Refuge Flowage, 2644400; Upper North Fork Flowage, 2648900; Middle North Fork Flowage, 7215114; Dike 4 Flowage, 2645400; Dike 6 Flowage, 2643100. Up to 20 sites may be sampled for soil iron concentrations. Up to 15 additional surface drainageways may occasionally be sampled. The property manager and staff will be consulted to help identify suitable sites. SWIMS station numbers are TBD.
- Comments:** New(?), although it is the next step following last year's project that monitored the Wood River as part of the Lake St. Croix watershed TMDL effort.
- Outcome:** The project will: 1. Describe iron distribution and transport. 2. Establish a baseline for the current quality of water discharges. 3. Explore management options that could improve downstream water quality. The project will contribute to Wisconsin's efforts towards the Lake St. Croix watershed TMDL. A report of findings will be prepared and entered into SWIMS. Management options will presumably be implemented in future years. The potential to rely heavily on transparency measurements may minimize future monitoring costs to evaluate effectiveness of practices.
- Study Design:** Soils will be tested to determine the mass and distribution of iron, since this is the source of iron in the system. 30 soil samples will be tested for particle size, TOC, iron, and bulk density. Soil profiles will be examined to see how iron re-distributes with water level fluctuations. Water released from the flowages will be tested at the 3 stream sites (in Project Objective) on 12 dates for TP, TSS, turbidity, color, and iron. Field tests will include D.O., temp, transparency, pH, conductivity, and flow. Water in 8 flowages will be tested once in late winter and once in late summer for TP and Fe. Field tests will include D.O., temp, transparency, pH, and conductivity. Summer sediment samples will be tested in 8 flowages for % solids, % volatile solids, TP, iron, and particle size. Twenty-five samples will be collected for misc. surface flows (upgradient of flowages and "background" sites) and tested for TP and Fe. Field tests will include D.O., temp, transparency, pH, and conductivity.
- QA Measures:** Standard DNR protocols will be followed for sample collection. The SLOH provides QA for lab samples.

### People

| Name                 | Role        | Status | Start Date | End Date   | Organization  | Comments |
|----------------------|-------------|--------|------------|------------|---------------|----------|
| CUNNINGHAM, JOSEPH L | COORDINATOR | ACTIVE | 01/01/2014 | 12/31/2014 | Wisconsin DNR |          |
| HAGEN, CHERIE L      | SUPERVISOR  | ACTIVE | 12/23/2013 | 12/31/2014 | Wisconsin DNR |          |
| Helmuth, Lisa D      | COORDINATOR | ACTIVE | 11/23/2019 |            | Wisconsin DNR |          |

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| Name               | Role         | Status   | Start Date | End Date   | Organization  | Comments |
|--------------------|--------------|----------|------------|------------|---------------|----------|
| PEACHER, RACHEL D  | COORDINATOR  | ACTIVE   | 01/01/2014 | 12/31/2014 | Wisconsin DNR |          |
| Roesler, Craig P   | PROJECT_LEAD | COMPLETE | 01/01/2014 | 12/31/2014 | Wisconsin DNR |          |
| Udenby, FLORENCE A | COORDINATOR  | COMPLETE | 01/01/2014 | 12/31/2014 | Wisconsin DNR |          |

### Project Statuses

| Date       | Reported By   | Status                     | Comments  |
|------------|---------------|----------------------------|---|
| 12/16/2013 | Craig Roesler | Proposed                   |   |
| 05/13/2014 | Craig Roesler | Progress: 0-25% Complete   | on schedule   |
| 11/25/2014 | Craig Roesler | Progress: 75-100% Complete | Most field work done. Planned flowage samples still need to be collected in February or March of 2015. Preliminary report will be completed prior to spring of 2015. Report will be finalized when macroinvertebrate sample results are received from UW Stevens Point. |
| 03/02/2016 | Craig Roesler | Complete                   |   |

### Project Status Detail

Answer Set: DEFAULT

| Question   | Answer |
|--|--------|
| 1. Number of Sample Sites (Enter the station IDs if you know them).  |        |
| 2. Number of Sample Events (Indicate how many trips into the field you anticipate for this project).                   |        |
| 3. Proposed Dates for Sample Collection  |        |
| 4. List applicable databases and who will enter data?  |        |
| 5. Did you receive competitive projects funding in the previous year?  |        |
| 6. If yes to question 5, did you complete the projects including data entry and reports as necessary? If not, why not? |        |
| 7. Reviewer Notes: Identify questions or issues with project (use during review period)                                |        |
| 8. Reviewer Decision: Is this project recommended for funding?   |        |

### Actions

| Action | Detailed Description | Start | End Date | Status |
|--------|----------------------|-------|----------|--------|
|--------|----------------------|-------|----------|--------|

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| Action                                | Detailed Description   | Start               | End Date     | Status          |
|---------------------------------------|--|---------------------|--------------|-----------------|
| Watershed Mapping or Assessment       | A targeted watershed assessment will be coupled with this project to provide biological data for the receiving streams. Three discharge streams will be monitored - Hay Ck, 2643000; Whiskey Ck, 2646600; Unnamed trib, 2647100. Flowages that may be monitored include - Phantom Flowage, 2144100; North Fork Flowage, 2647300; South Refuge Flowage, 2644400; Upper North Fork Flowage, 2648900; Middle North Fork Flowage, 7215114; Dike 4 Flowage, 2645400; Dike 6 Flowage, 2643100. Up to 20 sites may be sampled for soil iron concentrations. Up to 15 additional surface drainageways may occasionally be sampled. The property manager and staff will be consulted to help identify suitable sites. | 01/01/2014          | 12/31/2014   | COMPLETE        |
| <b>Details:</b>                       | <b>Parameter</b>   | <b>Value/Amount</b> | <b>Units</b> | <b>Comments</b> |
|                                       | Temperature  |                     |              |                 |
|                                       | Total Nitrogen   |                     |              |                 |
|                                       | Total Phosphorus   |                     |              |                 |
|                                       | Total Suspended Solids   |                     |              |                 |
| Monitor or Assess Watershed Condition | Crex Meadows Wildlife Area is located in Burnett County north of Grantsburg. Since 1945, the DNR has constructed more than 18 miles of dikes to restore 15,000 acres of wetland wildlife habitat and 5,000 acres of deepwater marshes. Drainage flows to the south via 3 tributaries to the North Fork Wood River and Wood River. The Wood River drains to the St. Croix River which is a National Wild and Scenic River. Lake St. Croix is located downstream. A TMDL project is underway for the Lake St. Croix watershed. Wisconsin and Minnesota are working cooperatively on the project with a goal of improving water quality, and especially reducing phosphorus loading.                            | 01/01/2014          | 12/31/2014   | IN_PROGRESS     |

### Monitoring Stations

| Station ID | Name                                       | Comments |
|------------|--|----------|
| 10042158   | Buggert Creek at Buggert Lake Rd.          |          |
| 10042342   | East ditch to N. Fk. Creek at Lundquist Rd |          |
| 10042116   | East spring at iron deposition area        |          |
| 10042427   | Ekdall Creek 5 m above mouth               |          |
| 10041942   | Hay Creek 10m west of CTH F                |          |
| 10042732   | Hay Creek Flowage (outlet end)             |          |
| 10042676   | Hay Creek Flowage at outlet                |          |
| 10042377   | Iron Creek 124 m DS Sadlers Rd             |          |
| 10042155   | Iron Spring at Norway Point                |          |
| 10042677   | Lower L Dike                               |          |
| 10042731   | Lower L Dike along CTH F                   |          |
| 10042728   | North Fork Flowage                         |          |
| 10042682   | North Fork Flowage near outlet             |          |

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| Station ID | Name   | Comments |
|------------|--|----------|
| 073114     | North Fork Wood River at Cth D Lower Crossing                  |          |
| 10042678   | Phantom Flowage  |          |
| 10042733   | Phantom Flowage near 3 tube outlet                             |          |
| 10042679   | Phantom Flowage near SE corner                                 |          |
| 10042734   | Phantom Flowage near east 1 tube outlet                        |          |
| 10042730   | Rice Lake  |          |
| 10042680   | Rice Lake near center  |          |
| 10042154   | Sandstone Spring at Norway Point                               |          |
| 10042729   | South Refuge Flowage near Main Dyke Rd                         |          |
| 10042681   | South Refuge Flowage near outlet                               |          |
| 10042157   | Unnamed (Kylingstad) Creek at North Fork Dike Rd               |          |
| 10042969   | Unnamed (North Fork Ck.) stream 160 m DS of North Fork Flowage |          |
| 10042428   | Unnamed Tributary 155 m DS North Rd                            |          |
| 10041943   | Unnamed stream 10m DS of Lundquist Rd.                         |          |
| 10042446   | Unnamed stream 37 m DS North Fork Dike Rd                      |          |
| 10042444   | Unnamed stream near Bang Rd                                    |          |
| 10042443   | Unnamed stream near Nordstrum Rd                               |          |
| 10042727   | Upper North Fork Flowage                                       |          |
| 10042683   | Upper North Fork Flowage                                       |          |
| 10042343   | West ditch to N. Fk. Creek at Lundquist Rd                     |          |
| 10042117   | West spring at iron deposition area                            |          |
| 10037789   | Whiskey Creek 110m DS CTH D                                    |          |
| 10042994   | Wood River 427m DS STH 70 (first crossing)                     |          |
| 10042968   | Wood River 460 m DS STH 70 second crossing                     |          |
| 073115     | Wood River North Fork - Upper Cth D Xing                       |          |
| 073109     | Wood River at Hwy 70 (East Crossing - to be replaced)          |          |
| 073029     | Wood River at Hwy 70, East Crossing                            |          |

### Assessment Units

| WBIC    | Segment | Local Name               | Official Name |
|---------|---------|--------------------------|---------------|
| 605100  | 1       | Local Water              | Unnamed       |
| 662400  | 1       | Un Spring                | Un Spring     |
| 1880600 | 1       | Shallow Lake             | Shallow Lake  |
| 1970400 | 1       | Un Lake                  | Unnamed       |
| 1970500 | 1       | Un Lake                  | Unnamed       |
| 2449700 | 1       | Baker Lake               | Baker Lake    |
| 2449900 | 1       | Baker Lake T39n R14w S18 | Baker Lake    |
| 2450000 | 1       | Baker Lake T39n R15w S02 | Baker Lake    |
| 2450100 | 1       | Banach Lake (Kiezer)     | Benach Lake   |
| 2450400 | 1       | Bartash Lake             | Bartash Lake  |
| 2450900 | 1       | Bass Lake T38n R15w S09  | Bass Lake     |
| 2451000 | 1       | Bass Lake T38n R15w S25  | Bass Lake     |
| 2451100 | 1       | Bass Lake T39n R14w S24  | Bass Lake     |
| 2451200 | 1       | Bass Lake T39n R16w S23  | Bass Lake     |
| 2451400 | 1       | Bass Lake T40n R15w S23  | Bass Lake     |
| 2451500 | 1       | Bass Lake T41n R14w S03  | Bass Lake     |
| 2451600 | 1       | Bass Lake T41n R16w S13  | Bass Lake     |

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| <b>WBIC</b> | <b>Segment</b> | <b>Local Name</b>            | <b>Official Name</b> |
|-------------|----------------|------------------------------|----------------------|
| 2452900     | 1              | Behr Lake                    | Behr Lake            |
| 2453100     | 1              | Berg Lake                    | Berg Lake            |
| 2453400     | 1              | Big Doctor Lake              | Big Doctor Lake      |
| 2453500     | 1              | Birch Island Lake            | Birch Island Lake    |
| 2453900     | 1              | Black Lake                   | Black Lake           |
| 2454200     | 1              | Bluff Lake                   | Bluff Lake           |
| 2454300     | 1              | Bogey Lake                   | Bogey Lake           |
| 2454500     | 1              | Boner Lake                   | Boner Lake           |
| 2454700     | 1              | Bradley Lake                 | Bradley Lake         |
| 2455000     | 1              | Bricher Lake                 | Bricher Lake         |
| 2455500     | 1              | Buck Lake T39n R15w S26      | Buck Lake            |
| 2457000     | 1              | Chase Lake                   | Chase Lake           |
| 2457600     | 1              | Clear Lake                   | Clear Lake           |
| 2458000     | 1              | Clubhouse Lake               | Clubhouse Lake       |
| 2458300     | 1              | Connors Lake                 | Connors Lake         |
| 2458500     | 1              | Corwick Lake                 | Coruick Lake         |
| 2458600     | 1              | Cranberry Lake T38n R15w S05 | Cranberry Lake       |
| 2458700     | 1              | Cranberry Lake T40n R14w S04 | Cranberry Lake       |
| 2458800     | 1              | Crescent Lake                | Crescent Lake        |
| 2459100     | 1              | Crooked Lake T38n R16w S08   | Crooked Lake         |
| 2459200     | 1              | Crooked Lake T40n R15w S07   | Crooked Lake         |
| 2459600     | 1              | Crystal Lake                 | Crystal Lake         |
| 2460300     | 1              | Deep Lake                    | Deep Lake            |
| 2460700     | 1              | Deer Lake                    | Deer Lake            |
| 2461100     | 1              | Devils Lake                  | Devils Lake          |
| 2461500     | 1              | Doctor Lake                  | Doctor Lake          |
| 2461700     | 1              | Dubois Lake                  | Dubois Lake          |
| 2462000     | 1              | Durand Lake                  | Durand Lake          |
| 2462600     | 1              | Eagle Lake T40n R14w S26     | Eagle Lake           |
| 2462900     | -9             | Echo Lake                    | Echo Lake            |
| 2463100     | 1              | Elbow Lake                   | Elbow Lake           |
| 2464000     | 1              | Fawn Lake                    | Fawn Lake            |
| 2464100     | 1              | Fenton Lake                  | Fenton Lake          |
| 2464200     | 1              | Fern Lake                    | Fern Lake            |
| 2464300     | 1              | Ferry Lake                   | Ferry Lake           |
| 2464400     | 1              | Fish Lake T38n R16w S06      | Fish Lake            |
| 2464500     | 1              | Fish Lake T40n R14w S04      | Fish Lake            |
| 2464800     | 1              | Floyd Lake                   | Floyd Lake           |
| 2465200     | 1              | Fremstadt Lake               | Fremstadt Lake       |
| 2465300     | 1              | Frog Lake (Prinel)           | Frog Lake            |
| 2466300     | 1              | Godfrey Lake                 | Godfrey Lake         |
| 2466500     | 1              | Goose Lake                   | Goose Lake           |
| 2467200     | 1              | Green Lake                   | Green Lake           |
| 2467300     | 1              | Greenwood Lake               | Greenwood Lake       |
| 2467700     | 1              | Ham Lake                     | Ham Lake             |
| 2468700     | 1              | Hayden Lake                  | Hayden Lake          |
| 2469900     | 1              | Horseshoe Lake               | Horseshoe Lake       |
| 2470700     | 1              | Island Lake                  | Island Lake          |

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| <b>WBIC</b> | <b>Segment</b> | <b>Local Name</b>              | <b>Official Name</b>        |
|-------------|----------------|--------------------------------|-----------------------------|
| 2471600     | 1              | Johnson Lake                   | Johnson Lake                |
| 2471700     | 1              | Johnson Lake T41n R15w S24     | Johnson Lake                |
| 2471800     | 1              | Kapes Lake (Miller)            | Kapes Lake                  |
| 2473700     | 1              | Thirty-Two Lake                | Lake Thirty Two             |
| 2474100     | 1              | Lang Lake                      | Lang Lake                   |
| 2474300     | 1              | Larson Lake                    | Larson Lake                 |
| 2474600     | 1              | Leaf Lake                      | Leaf Lake                   |
| 2475300     | 1              | Lily Lake T41n R14w S34        | Lily Lake                   |
| 2475400     | 1              | Lind Lake                      | Lind Lake                   |
| 2475600     | 1              | Little Bass Lake T38n R15w S24 | Little Bass Lake            |
| 2475800     | 1              | Little Bass Lake T40n R16w S22 | Little Bass Lake            |
| 2476000     | 1              | Little Bear Lake               | Little Bear Lake            |
| 2476200     | 1              | Little Deer Lake               | Little Deer Lake            |
| 2476300     | 1              | Little Dunham Lake             | Little Dunham Lake          |
| 2476900     | 1              | Little Mallard Lake            | Little Mallard Lake         |
| 2477000     | 1              | Little Mcgraw Lake             | Little McGraw Lake          |
| 2477600     | 1              | Little Round Lake              | Little Round Lake           |
| 2478300     | 1              | Long Lake T41n R16w S33        | Long Lake                   |
| 2479400     | 1              | Lost Lake T39n R15w S27        | Lost Lake                   |
| 2479500     | 1              | Lost Lake                      | Lost Lake                   |
| 2479700     | 1              | Lost Lake T41n R14w S16        | Lost Lake                   |
| 2480000     | 1              | Twin Lake, Lower               | Lower Twin Lake             |
| 2480100     | 1              | Lucerne Lake                   | Lucerne Lake                |
| 2480800     | 1              | Mallard Lake                   | Mallard Lake                |
| 2481400     | 1              | Mcelroy Lake                   | McElroy Lake                |
| 2481900     | 1              | Meeker Run Lake                | Meeker Run Lake             |
| 2482700     | 1              | Mingo Lake                     | Mingo Lake                  |
| 2482800     | 1              | Miniature Lake                 | Miniature Lake              |
| 2482900     | 1              | Minnow Lake                    | Minnow Lake                 |
| 2483200     | 1              | Mollete Lake                   | Mollete Lake                |
| 2483300     | 1              | Money Lake                     | Money Lake                  |
| 2484400     | 1              | Mud Lake T40n R16w S26         | Mud Lake                    |
| 2485100     | 1              | Muskrat Lake                   | Muskrat Lake                |
| 2485200     | 1              | Myre Lake                      | Myre Lake                   |
| 2485300     | 1              | Myrick                         | Myrick Lake                 |
| 2485400     | 1              | Mystery Lake                   | Mystery Lake                |
| 2485800     | 1              | Twin Lake, North               | Twin Lakes, North Twin Lake |
| 2486100     | 1              | Nicaboyne Lake (Nicahoyne)     | Nicaboyne Lake              |
| 2486300     | 1              | No Mans Lake                   | No Mans Lake                |
| 2486600     | 1              | Oak Lake                       | Oak Lake                    |
| 2487400     | 1              | Our Lake                       | Our Lake                    |
| 2488500     | 1              | Perch Lake                     | Perch Lake                  |
| 2488800     | 1              | Phernetton Lake                | Phernetton Lake             |
| 2489500     | 1              | Pike Lake                      | Pike Lake                   |
| 2490100     | 1              | Pine Lake T37n R18w S22        | Pine Lake                   |
| 2490200     | 1              | Pine Lake T40n R15w S25        | Pine Lake                   |
| 2490600     | 1              | Places Lake                    | Places Lake                 |
| 2490900     | 1              | Point Lake                     | Point Lake                  |

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| <b>WBIC</b> | <b>Segment</b> | <b>Local Name</b>            | <b>Official Name</b> |
|-------------|----------------|------------------------------|----------------------|
| 2491100     | 1              | Poquettes Lake (Little Long) | Poquettes Lake       |
| 2491200     | 1              | Pratt Lake                   | Pratt Lake           |
| 2491500     | 1              | Prinel Lake (Frog)           | Prinel Lake          |
| 2491600     | 1              | Put Lake                     | Put Lake             |
| 2491700     | 1              | Rahn Lake                    | Rahn Lake            |
| 2492400     | 1              | Richart Lake                 | Richart Lake         |
| 2493000     | 1              | Rohr Lake                    | Rohr Lake            |
| 2493100     | 1              | Rooney Lake                  | Rooney Lake          |
| 2493600     | 1              | Round Lake T39n R15w S03     | Round Lake           |
| 2493700     | 1              | Round Lake T41n R16w S33     | Round Lake           |
| 2494300     | 1              | Twin Lake, South             | South Twin Lake      |
| 2494700     | 1              | Saginaw Lake                 | Saginaw Lake         |
| 2495100     | 1              | Sand Lake T40n R15w S25      | Sand Lake            |
| 2495500     | 1              | Sanks Lake                   | Sanks Lake           |
| 2496800     | 1              | Silver Lake T38n R16w S22    | Silver Lake          |
| 2497900     | 1              | Smith Lake                   | Smith Lake           |
| 2499200     | 1              | Staples Lake                 | Staples Lake         |
| 2499500     | 1              | Stone Lake                   | Stone Lake           |
| 2499700     | 1              | Stulen Lake                  | Stulen Lake          |
| 2500000     | 1              | Sunfish Lake                 | Sunfish Lake         |
| 2500300     | 1              | Swamp Lake T38n R16w S30     | Swamp Lake           |
| 2500400     | 1              | Swamp Lake T39n R15w S11     | Swamp Lake           |
| 2500800     | 1              | Tanda Lake                   | Tanda Lake           |
| 2501100     | 1              | Temple Lake                  | Temple Lake          |
| 2501200     | 1              | Thatcher Lake                | Thatcher Lake        |
| 2501500     | 1              | Tobe Lake                    | Tobe Lake            |
| 2502600     | 1              | Tucker Lake                  | Tucker Lake          |
| 2527600     | 1              | Un Lake                      | Unnamed              |
| 2527700     | 1              | Un Lake                      | Unnamed              |
| 2527800     | 1              | Un Lake                      | Unnamed              |
| 2527900     | 1              | Un Lake                      | Unnamed              |
| 2528000     | 1              | Un Lake                      | Unnamed              |
| 2528100     | 1              | Un Lake                      | Unnamed              |
| 2528200     | 1              | Un Lake                      | Unnamed              |
| 2528300     | 1              | Un Lake                      | Unnamed              |
| 2528400     | 1              | Un Lake                      | Unnamed              |
| 2528500     | 1              | Un Lake                      | Unnamed              |
| 2528600     | 1              | Un Lake                      | Unnamed              |
| 2531300     | 1              | Un Lake                      | Unnamed              |
| 2531400     | 1              | Un Lake                      | Unnamed              |
| 2531500     | 1              | Unnamed Lake                 | Unnamed              |
| 2531600     | 1              | Un Lake                      | Unnamed              |
| 2531700     | 1              | Un Lake                      | Unnamed              |
| 2531800     | 1              | Un Lake                      | Unnamed              |
| 2531900     | 1              | Un Lake                      | Unnamed              |
| 2532000     | 1              | Un Lake                      | Unnamed              |
| 2532100     | 1              | Un Lake                      | Unnamed              |
| 2532200     | 1              | Un Lake                      | Unnamed              |

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| <b>WBIC</b> | <b>Segment</b> | <b>Local Name</b> | <b>Official Name</b> |
|-------------|----------------|-------------------|----------------------|
| 2532300     | 1              | Un Lake           | Unnamed              |
| 2532400     | 1              | Un Lake           | Unnamed              |
| 2532500     | 1              | Un Lake           | Unnamed              |
| 2532600     | 1              | Un Lake           | Unnamed              |
| 2532700     | 1              | Un Lake           | Unnamed              |
| 2532800     | 1              | Un Lake           | Unnamed              |
| 2532900     | 1              | Un Lake           | Unnamed              |
| 2538100     | 1              | Un Lake           | Unnamed              |
| 2538200     | 1              | Un Lake           | Unnamed              |
| 2538300     | 1              | Un Lake           | Unnamed              |
| 2538400     | 1              | Un Lake           | Unnamed              |
| 2538500     | 1              | Un Lake           | Unnamed              |
| 2538600     | 1              | Un Lake           | Unnamed              |
| 2538700     | 1              | Un Lake           | Unnamed              |
| 2538800     | 1              | Un Lake           | Unnamed              |
| 2538900     | 1              | Un Lake           | Unnamed              |
| 2539000     | 1              | Un Lake           | Unnamed              |
| 2539100     | 1              | Unnamed Lake      | Unnamed              |
| 2539200     | 1              | Un Lake           | Unnamed              |
| 2539300     | 1              | Un Lake           | Unnamed              |
| 2539365     | 1              | Un Lake           | Unnamed              |
| 2539370     | 1              | Un Lake           | Unnamed              |
| 2539380     | 1              | Un Lake           | Unnamed              |
| 2539400     | 1              | Un Lake           | Unnamed              |
| 2539500     | 1              | Un Lake           | Unnamed              |
| 2539600     | 1              | Un Lake           | Unnamed              |
| 2539700     | 1              | Un Lake           | Unnamed              |
| 2539800     | 1              | Un Lake           | Unnamed              |
| 2539900     | 1              | Un Lake           | Unnamed              |
| 2540000     | 1              | Un Lake           | Unnamed              |
| 2540100     | 1              | Un Lake           | Unnamed              |
| 2540200     | 1              | Un Lake           | Unnamed              |
| 2540300     | 1              | Un Lake           | Unnamed              |
| 2540400     | 1              | Un Lake           | Unnamed              |
| 2540500     | 1              | Un Lake           | Unnamed              |
| 2540600     | 1              | Un Lake           | Unnamed              |
| 2540700     | 1              | Un Lake           | Unnamed              |
| 2540800     | 1              | Un Lake           | Unnamed              |
| 2540900     | 1              | Un Lake           | Unnamed              |
| 2541000     | 1              | Un Lake           | Unnamed              |
| 2541100     | 1              | Un Lake           | Unnamed              |
| 2541200     | 1              | Unnamed Lake      | Unnamed              |
| 2541300     | 1              | Un Lake           | Unnamed              |
| 2541400     | 1              | Un Lake           | Unnamed              |
| 2541500     | 1              | Un Lake           | Unnamed              |
| 2541600     | 1              | Un Lake           | Unnamed              |
| 2541700     | 1              | Un Lake           | Unnamed              |
| 2546600     | 1              | Un Lake           | Unnamed              |



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|-------------|----------------|-------------------|----------------------|
| 2546700     | 1              | Un Lake           | Unnamed              |
| 2546800     | 1              | Un Lake           | Unnamed              |
| 2546900     | 1              | Un Lake           | Unnamed              |
| 2547000     | 1              | Un Lake           | Unnamed              |
| 2547100     | 1              | Un Lake           | Unnamed              |
| 2547200     | 1              | Un Lake           | Unnamed              |
| 2547300     | 1              | Un Lake           | Unnamed              |
| 2547400     | 1              | Un Lake           | Unnamed              |
| 2547500     | 1              | Un Lake           | Unnamed              |
| 2547700     | 1              | Un Lake           | Unnamed              |
| 2547800     | 1              | Un Lake           | Unnamed              |
| 2547900     | 1              | Un Lake           | Unnamed              |
| 2548000     | 1              | Un Lake           | Unnamed              |
| 2548100     | 1              | Un Lake           | Unnamed              |
| 2548200     | 1              | Un Lake           | Unnamed              |
| 2548300     | 1              | Un Lake           | Unnamed              |
| 2548400     | 1              | Un Lake           | Unnamed              |
| 2548500     | 1              | Un Lake           | Unnamed              |
| 2548600     | 1              | Un Lake           | Unnamed              |
| 2548700     | 1              | Un Lake           | Unnamed              |
| 2548800     | 1              | Un Lake           | Unnamed              |
| 2548900     | 1              | Un Lake           | Unnamed              |
| 2549000     | 1              | Un Lake           | Unnamed              |
| 2549100     | 1              | Un Lake           | Unnamed              |
| 2549200     | 1              | Un Lake           | Unnamed              |
| 2549300     | 1              | Un Lake           | Unnamed              |
| 2555400     | 1              | Un Lake           | Unnamed              |
| 2555600     | 1              | Un Lake           | Unnamed              |
| 2555700     | 1              | Un Lake           | Unnamed              |
| 2555800     | 1              | Un Lake           | Unnamed              |
| 2555900     | 1              | Un Lake           | Unnamed              |
| 2556000     | 1              | Un Lake           | Unnamed              |
| 2556100     | 1              | Un Lake           | Unnamed              |
| 2556200     | 1              | Un Lake           | Unnamed              |
| 2556300     | 1              | Un Lake           | Unnamed              |
| 2556400     | 1              | Un Lake           | Unnamed              |
| 2556500     | 1              | Un Lake           | Unnamed              |
| 2556600     | 1              | Un Lake           | Unnamed              |
| 2556700     | 1              | Unnamed Lake      | Unnamed              |
| 2556800     | 1              | Un Lake           | Unnamed              |
| 2556900     | 1              | Un Lake           | Unnamed              |
| 2557000     | 1              | Un Lake           | Unnamed              |
| 2557100     | 1              | Un Lake           | Unnamed              |
| 2557200     | 1              | Un Lake           | Unnamed              |
| 2557300     | 1              | Un Lake           | Unnamed              |
| 2557400     | 1              | Un Lake           | Unnamed              |
| 2557500     | 1              | Un Lake           | Unnamed              |
| 2557600     | 1              | Un Lake           | Unnamed              |

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| <b>WBIC</b> | <b>Segment</b> | <b>Local Name</b> | <b>Official Name</b> |
|-------------|----------------|-------------------|----------------------|
| 2557700     | 1              | Un Lake           | Unnamed              |
| 2557800     | 1              | Un Lake           | Truck Lake           |
| 2557900     | 1              | Un Lake           | Unnamed              |
| 2558000     | 1              | Un Lake           | Unnamed              |
| 2558100     | 1              | Un Lake           | Unnamed              |
| 2558200     | 1              | Un Lake           | Unnamed              |
| 2558300     | 1              | Un Lake           | Unnamed              |
| 2558400     | 1              | Local Water       | Unnamed              |
| 2558500     | 1              | Un Lake           | Unnamed              |
| 2558600     | 1              | Un Lake           | Unnamed              |
| 2558700     | 1              | Un Lake           | Unnamed              |
| 2558800     | 1              | Un Lake           | Unnamed              |
| 2558900     | 1              | Un Lake           | Unnamed              |
| 2559000     | 1              | Un Lake           | Unnamed              |
| 2559100     | 1              | Un Lake           | Unnamed              |
| 2559200     | 1              | Un Lake           | Unnamed              |
| 2559300     | 1              | Un Lake           | Unnamed              |
| 2559400     | 1              | Un Lake           | Unnamed              |
| 2559500     | 1              | Un Lake           | Unnamed              |
| 2559600     | 1              | Un Lake           | Unnamed              |
| 2559700     | 1              | Un Lake           | Unnamed              |
| 2559800     | 1              | Un Lake           | Unnamed              |
| 2559900     | 1              | Un Lake           | Unnamed              |
| 2560000     | 1              | Un Lake           | Unnamed              |
| 2568100     | 1              | Un Lake           | Unnamed              |
| 2568200     | 1              | Un Lake           | Unnamed              |
| 2568300     | 1              | Un Lake           | Unnamed              |
| 2568400     | 1              | Un Lake           | Unnamed              |
| 2568500     | 1              | Un Lake           | Unnamed              |
| 2568600     | 1              | Un Lake           | Unnamed              |
| 2568700     | 1              | Un Lake           | Unnamed              |
| 2568800     | 1              | Un Lake           | Unnamed              |
| 2568900     | 1              | Un Lake           | Unnamed              |
| 2569000     | 1              | Un Lake           | Unnamed              |
| 2569100     | 1              | Un Lake           | Unnamed              |
| 2569200     | 1              | Unnamed Lake      | Unnamed              |
| 2569300     | 1              | Un Lake           | Unnamed              |
| 2569400     | 1              | Un Lake           | Unnamed              |
| 2569500     | 1              | Un Lake           | Unnamed              |
| 2569600     | 1              | Un Lake           | Unnamed              |
| 2569700     | 1              | Un Lake           | Unnamed              |
| 2569900     | 1              | Un Lake           | Unnamed              |
| 2570000     | 1              | Un Lake           | Unnamed              |
| 2570100     | 1              | Un Lake           | Unnamed              |
| 2570200     | 1              | Un Lake           | Unnamed              |
| 2570300     | 1              | Un Lake           | Unnamed              |
| 2573100     | 1              | Un Lake           | Unnamed              |
| 2598400     | 1              | Twin Lake, Upper  | Upper Twin Lake      |

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| <b>WBIC</b> | <b>Segment</b> | <b>Local Name</b>             | <b>Official Name</b>          |
|-------------|----------------|-------------------------------|-------------------------------|
| 2598600     | 1              | Viola Lake                    | Viola Lake                    |
| 2599500     | 1              | Ward Lake                     | Ward Lake                     |
| 2600700     | 1              | Wilson Lake                   | Wilson Lake                   |
| 2601400     | 4              | St. Croix River               | Saint Croix River             |
| 2601400     | 6              | St. Croix River               | Saint Croix River             |
| 2635500     | 2              | Orr Creek                     | Orr Creek                     |
| 2636000     | 2              | Trade River                   | Trade River                   |
| 2636000     | 6              | Trade River                   | Trade River                   |
| 2636000     | 7              | Trade River                   | Trade River                   |
| 2636000     | 8              | Trade River                   | Trade River                   |
| 2636100     | 1              | Cowan Creek                   | Cowan Creek                   |
| 2636500     | 1              | Fish Lake                     | Fish Lake                     |
| 2636600     | 1              | Town Road Flowage             | Town Road Flowage             |
| 2636600     | 2              | Town Road Flowage             | Town Road Flowage             |
| 2636800     | 1              | Logging Creek                 | Logging Creek                 |
| 2636800     | 2              | Logging Creek                 | Logging Creek                 |
| 2637200     | 1              | Dueholm Flowage               | Dueholm Flowage               |
| 2637400     | 1              | North Fork Trade River        | North Fork Trade River        |
| 2637400     | 2              | North Fork Trade River        | North Fork Trade River        |
| 2637400     | 3              | North Fork Trade River        | North Fork Trade River        |
| 2637400     | 4              | North Fork Trade River        | North Fork Trade River        |
| 2637800     | 1              | Grettum Flowage               | Grettum Flowage               |
| 2638100     | 1              | Isaac Lake                    | Isaac Lake                    |
| 2638200     | 1              | Little Holmes Lake            | Little Holmes Lake            |
| 2638400     | 1              | Holmes Lake                   | Holmes Lake                   |
| 2638600     | 1              | Bass Lake T37n R18w S17       | Bass Lake                     |
| 2638700     | 1              | Big Trade Lake                | Big Trade Lake                |
| 2638900     | 1              | Un Lake                       | Unnamed                       |
| 2639100     | 1              | Pickle Lake                   | Pickle Lake                   |
| 2639200     | 1              | Gabrielson Lake (Gabelson)    | Gabrielson Lake               |
| 2639300     | 1              | Trade Lake, Little            | Little Trade Lake             |
| 2639500     | 1              | Un Lake                       | Unnamed                       |
| 2639700     | 1              | Un Lake                       | Unnamed                       |
| 2639800     | 1              | Spook Lake                    | Spook Lake                    |
| 2640000     | 1              | Un Lake                       | Unnamed                       |
| 2640100     | 1              | Round Lake T37n R18w S27      | Round Lake                    |
| 2640300     | 1              | Rice Lake T37n R18w S25       | Rice Lake                     |
| 2642800     | 1              | Benson Brook                  | Benson Brook                  |
| 2642900     | 1              | Wood River                    | Wood River                    |
| 2642900     | 2              | Wood River                    | Wood River                    |
| 2643000     | 1              | Hay Creek                     | Hay Creek                     |
| 2643000     | 2              | Hay Creek                     | Hay Creek                     |
| 2643100     | 1              | Local Water                   | Unnamed                       |
| 2644100     | 1              | Phantom Flowage T39n R19w S36 | Phantom Flowage T39n R19w S36 |
| 2644200     | 1              | Phantom L. Bypass             | Phantom Lake Bypass           |
| 2644400     | 1              | South Refuge Flowage          | South Refuge Flowage          |
| 2644700     | 1              | Upper Phantom Flowage         | Upper Phantom Flowage         |
| 2644900     | 1              | Dike 2 Flowage                | Dike 2 Flowage                |

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| <b>WBIC</b> | <b>Segment</b> | <b>Local Name</b>                     | <b>Official Name</b>      |
|-------------|----------------|---------------------------------------|---------------------------|
| 2645000     | 1              | Refuge Bypass                         | Refuge Bypass             |
| 2645200     | 1              | Reisinger Lake                        | Reisinger Lake            |
| 2645400     | 1              | Dike 4 Flowage                        | Dike 4 Flowage            |
| 2645500     | 1              | Local Water                           | Unnamed                   |
| 2645800     | 1              | Unnamed Stream                        | Unnamed                   |
| 2645900     | 1              | Rice Lake                             | Rice Lake                 |
| 2646500     | 1              | Memory Lake                           | Memory Lake               |
| 2646600     | 1              | Whiskey Creek                         | Whiskey Creek             |
| 2646600     | 2              | Whiskey Creek                         | Whiskey Creek             |
| 2646800     | 1              | Whiskey Creek                         | Whiskey Creek Flowage     |
| 2646900     | 1              | Local Water                           | Unnamed                   |
| 2647000     | 1              | North Fork Wood River                 | North Fork Wood River     |
| 2647100     | 1              | Unnamed Trib to North Fork Wood River | Unnamed                   |
| 2647100     | 2              | Unnamed Trib to North Fork Wood River | Unnamed                   |
| 2647300     | 1              | North Fork Flowage                    | North Fork Flowage        |
| 2647400     | 1              | Pumphouse Ditch                       | Pumphouse Ditch           |
| 2647600     | 1              | Unnamed Lake                          | Dike 1 Flowage            |
| 2648100     | 1              | Reed Lake                             | Reed Lake                 |
| 2648100     | 2              | Reed Lake                             | Reed Lake                 |
| 2648200     | 1              | Monson Lake T39n R18w S04             | Monson Lake T39n R18w S04 |
| 2648700     | 1              | Local Water                           | Unnamed                   |
| 2648900     | 1              | Upper North Fork Flowage              | Upper North Fork Flowage  |
| 2649300     | 1              | Local Water                           | Unnamed                   |
| 2649400     | 1              | Local Water                           | Unnamed                   |
| 2649500     | 1              | Mud Hen Lake                          | Mud Hen Lake              |
| 2649600     | 1              | Un Lake                               | Unnamed                   |
| 2649700     | 1              | Blomberg Lake (Blomberg)              | Blomberg Lake             |
| 2649800     | 1              | Wood Lake                             | Wood Lake                 |
| 2649900     | 1              | Spirit Creek                          | Spirit Creek              |
| 2649900     | 2              | Spirit Creek                          | Spirit Creek              |
| 2649900     | 4              | Spirit Creek                          | Spirit Creek              |
| 2650000     | 1              | Unnamed Stream                        | Unnamed                   |
| 2650100     | 1              | Peterson Lake                         | Peterson Lake             |
| 2650200     | 1              | Rice Lake T37n R18w S10               | Rice Lake                 |
| 2650300     | 1              | Spirit Lake                           | Spirit Lake               |
| 2650900     | 1              | Little Wood Lake                      | Little Wood Lake          |
| 2651000     | 1              | Unnamed Stream                        | Unnamed                   |
| 2651100     | 1              | Hunters Lake                          | Hunters Lake              |
| 2651200     | 1              | Grass Lake                            | Grass Lake                |
| 2651500     | 1              | Silver Lake T38n R18w S36             | Silver Lake               |
| 2651700     | 1              | Indian Lake                           | Indian Lake               |
| 2651800     | 1              | Dunham Lake                           | Dunham Lake               |
| 2651900     | 1              | Unnamed Stream                        | Unnamed                   |
| 2652000     | 1              | Un Lake                               | Unnamed                   |
| 2652800     | 1              | Pine Brook                            | Pine Brook                |
| 2652900     | 1              | East Brook                            | East Brook                |
| 2653000     | 1              | Brant Brook                           | Brant Brook               |
| 2653100     | 1              | Kettle Brook                          | Kettle Brook              |

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| <b>WBIC</b> | <b>Segment</b> | <b>Local Name</b>              | <b>Official Name</b>  |
|-------------|----------------|--------------------------------|-----------------------|
| 2653200     | 1              | Bear Brook                     | Bear Brook            |
| 2653300     | 1              | Ekdall Brook                   | Ekdall Brook          |
| 2653400     | 1              | Buggert Lake                   | Buggert Lake          |
| 2653600     | 1              | Fuhrman Lake                   | Fuhrman Lake          |
| 2653700     | 1              | Iron Creek                     | Iron Creek            |
| 2654000     | 1              | Barrett Creek                  | Barrett Creek         |
| 2654200     | 1              | Clam River                     | Clam River            |
| 2654200     | 2              | Clam River                     | Clam River            |
| 2654200     | 3              | Clam River                     | Clam River            |
| 2654200     | 4              | Clam River                     | Clam River            |
| 2654300     | 1              | South Channel Clam River       | Clam River -S Channel |
| 2654500     | 1              | Clam River Flowage             | Clam River Flowage    |
| 2654600     | 1              | Dody Brook                     | Dody Brook            |
| 2654600     | 2              | Dody Brook                     | Dody Brook            |
| 2654700     | 1              | Un Lake                        | Unnamed               |
| 2654800     | 1              | Black Brook                    | Black Brook           |
| 2654800     | 2              | Black Brook                    | Black Brook           |
| 2655000     | 1              | Unnamed Lake                   | Unnamed               |
| 2655100     | 1              | Ditch to Clam River            | Unnamed               |
| 2655300     | 1              | Clam Lake, Lower               | Lower Clam Lake       |
| 2655600     | 1              | Un Lake                        | Unnamed               |
| 2655700     | 1              | Un Lake                        | Unnamed               |
| 2655800     | 1              | Mallard Slough                 | Mallard Slough        |
| 2655900     | 1              | Taylor Lake                    | Taylor Lake           |
| 2656000     | 1              | Owl Lake                       | Owl Lake              |
| 2656100     | 1              | Tamarack Lake                  | Tamarack Lake         |
| 2656200     | 1              | Clam Lake, Upper               | Clam Lake             |
| 2656400     | 2              | Long Lake T38n R16w S16        | Long Lake             |
| 2656500     | 1              | Cripple Creek                  | Cripple Creek         |
| 2656600     | 1              | North Fork Clam River          | North Fork Clam River |
| 2656600     | 3              | North Fork Clam River          | North Fork Clam River |
| 2656600     | 4              | North Fork Clam River          | North Fork Clam River |
| 2656700     | 1              | Kent Creek                     | Kent Creek            |
| 2656900     | 1              | Kent Lake                      | Kent Lake             |
| 2657200     | 1              | Pokegama Lake                  | Pokegama Lake         |
| 2657400     | 1              | Un Lake                        | Unnamed               |
| 2657800     | 1              | Indian Creek                   | Indian Creek          |
| 2658400     | 1              | Spencer Lake (Spence)          | Spencer Lake          |
| 2658600     | 2              | Spencer Creek                  | Spencer Creek         |
| 2659300     | 1              | Little Bass Lake T38n R15w S36 | Little Bass Lake      |
| 2659400     | 2              | Sand Creek                     | Sand Creek            |
| 2659400     | 4              | Sand Creek                     | Sand Creek            |
| 2659500     | 1              | Spring Branch                  | Spring Brook          |
| 2659600     | 1              | Spring Branch                  | Unnamed               |
| 2659700     | 1              | Peacock Lake                   | Peacock Lake          |
| 2660400     | 1              | Un Lake                        | Unnamed               |
| 2662000     | 1              | Bashaw Outlet                  | Bashaw Outlet         |

## Wisconsin Department of Natural Resources SWIMS Project Summary

| <b>WBIC</b> | <b>Segment</b> | <b>Local Name</b>            | <b>Official Name</b>    |
|-------------|----------------|------------------------------|-------------------------|
| 2662100     | 1              | Montgomery Creek             | Montgomery Creek        |
| 2662100     | 2              | Montgomery Creek             | Montgomery Creek        |
| 2662100     | 3              | Montgomery Creek             | Montgomery Creek        |
| 2662400     | 1              | Bashaw Lake                  | Bashaw Lake             |
| 2662500     | 1              | Bashaw Brook                 | Bashaw Brook            |
| 2662500     | 2              | Bashaw Brook                 | Bashaw Brook            |
| 2662800     | 1              | Un Lake                      | Unnamed                 |
| 2662900     | 1              | Glendenning Lake             | Glendenning Lake        |
| 2663300     | 1              | South Fork Clam River        | South Fork Clam River   |
| 2663300     | 2              | South Fork Clam River        | South Fork Clam River   |
| 2663500     | 1              | Un Lake                      | Unnamed                 |
| 2663600     | 1              | Unnamed Trib to S Fk Clam R  | Unnamed                 |
| 2663700     | 1              | Krantz Creek                 | Krantz Creek            |
| 2663800     | 1              | Buck Lake T37n R14w S14      | Buck Lake               |
| 2664100     | 1              | Spring Lake                  | Spring Lake             |
| 2664600     | 1              | Gillespie Creek              | Gillespie Creek         |
| 2664900     | 1              | Sand Lake T38n R16w S22      | Sand Lake               |
| 2665100     | 1              | Un Lake                      | Unnamed                 |
| 2669500     | 1              | Sioux Portage Creek          | Sioux Portage Creek     |
| 2670300     | 1              | Yellow River                 | Yellow River            |
| 2670300     | 2              | Yellow River                 | Yellow River            |
| 2670300     | 3              | Yellow River                 | Yellow River            |
| 2670400     | 1              | Loon Creek                   | Loon Creek              |
| 2670400     | 2              | Loon Creek                   | Loon Creek              |
| 2670400     | 3              | Loon Creek                   | Loon Creek              |
| 2670400     | 4              | Loon Creek                   | Loon Creek              |
| 2670600     | 1              | Minerva Lake                 | Minerva Lake            |
| 2670700     | 1              | Cranberry Lake T41n R16w S35 | Cranberry Lake          |
| 2670900     | 1              | Falk Lake                    | Falk Lake               |
| 2671000     | 1              | Love Lake                    | Love Lake               |
| 2671100     | 1              | Gull Lake                    | Gull Lake               |
| 2671200     | 1              | Loon Lake T41n R15w S36      | Loon Lake               |
| 2671400     | 1              | Burlingame Lake              | Burlingame Lake         |
| 2671500     | 1              | Robie Lake                   | Robie Lake              |
| 2671600     | 1              | Un Lake                      | Unnamed                 |
| 2671700     | 1              | Tabor Lake (Loon)            | Tabor Lake              |
| 2671900     | 1              | Briggs Lake                  | Briggs Lake             |
| 2672100     | 1              | Eagle Lake T41n R15w S34     | Eagle Lake              |
| 2672300     | 1              | Mud Lake T41n R15w S34       | Mud Lake                |
| 2672500     | 1              | Twenty-Six Lake              | Twentysix Lake          |
| 2672700     | 1              | Twentysix Lake Spring        | Twenty-Six Lake Springs |
| 2672800     | 1              | Schaaf Lake                  | Schaaf Lake             |
| 2672900     | 1              | Culbertson Creek             | Culbertson Creek        |
| 2672900     | 2              | Culbertson Creek             | Culbertson Creek        |
| 2672900     | 3              | Culbertson Creek             | Culbertson Creek        |
| 2673000     | 1              | Lang Lake, North             | North Lang Lake         |
| 2673200     | 1              | Culbertson Lake              | Culbertson Lake         |
| 2673300     | 1              | Culbertson Springs           | Culbertson Springs      |

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| <b>WBIC</b> | <b>Segment</b> | <b>Local Name</b>             | <b>Official Name</b>          |
|-------------|----------------|-------------------------------|-------------------------------|
| 2673500     | 1              | Loon Lake T40n R15w S01       | Loon Lake                     |
| 2673600     | 1              | Cadotte Lake                  | Cadotte Lake                  |
| 2673800     | 1              | Shoal Lake                    | Shoal Lake                    |
| 2674000     | 1              | Hanscom Lake                  | Hanscom Lake                  |
| 2674100     | 1              | Long Lake T41 R14 S28         | Long Lake                     |
| 2674200     | 1              | Des Moines Lake (Sucker)      | Des Moines Lake               |
| 2674500     | 1              | Danbury Flowage               | Danbury Flowage               |
| 2674700     | 1              | Buffalo Lake                  | Buffalo Lake                  |
| 2674800     | 1              | Little Yellow Lake            | Little Yellow Lake            |
| 2675000     | 1              | Bass Lake T40n R17w S13       | Bass Lake                     |
| 2675100     | 1              | Kreiner Lake                  | Kreiner Lake                  |
| 2675200     | 1              | Yellow Lake                   | Yellow Lake                   |
| 2675400     | 1              | Lone Star Lake (Saunders)     | Lone Star Lake                |
| 2675700     | 1              | Austin Lake                   | Austin Lake                   |
| 2675800     | 1              | Un Lake                       | Unnamed                       |
| 2675900     | 1              | Lily Lake T39n R15w S06       | Lily Lake                     |
| 2676000     | 1              | Peterson Lake (Big)           | Peterson Lake                 |
| 2676100     | 1              | North Lake                    | North Lake                    |
| 2676200     | 1              | Keizer Lake                   | Kiezer Lake                   |
| 2676300     | 1              | Tomoe Lake                    | Tomoe Lake                    |
| 2676400     | 1              | Ann Lake                      | Ann Lake                      |
| 2676700     | 1              | Un Lake                       | Unnamed                       |
| 2676800     | 1              | Big Sand Lake                 | Big Sand Lake                 |
| 2677100     | 1              | Un Lake                       | Unnamed                       |
| 2677200     | 1              | Warner Lake                   | Warner Lake                   |
| 2677300     | 1              | Spring Brook                  | Spring Brook                  |
| 2677400     | 1              | Spring Brook Springs          | Spring Brook Springs          |
| 2677700     | 1              | Gaslyn Lake                   | Gaslyn Lake                   |
| 2677800     | 1              | Black Creek                   | Black Creek                   |
| 2677900     | 1              | Rice Lake T39n R14w S10       | Rice Lake                     |
| 2678000     | 1              | Unnamed Creek                 | Unnamed                       |
| 2678000     | 2              | Unnamed Creek                 | Unnamed                       |
| 2678100     | 1              | Lipsett Lake                  | Lipsett Lake                  |
| 2678300     | 1              | Benoit Lake                   | Benoit Lake                   |
| 2678500     | 1              | Un Spring                     | Un Spring                     |
| 2686200     | 1              | Upper Tamarack River          | Upper Tamarack River          |
| 2687800     | 1              | Chases Brook                  | Chases Brook                  |
| 2688000     | 1              | Un Lake                       | Unnamed                       |
| 2688100     | 1              | Glendenning Creek             | Glendenning Creek             |
| 2688100     | 2              | Glendenning Creek             | Glendenning Creek             |
| 2688600     | 1              | Hay Creek                     | Hay Creek                     |
| 2688600     | 2              | Hay Creek                     | Hay Creek                     |
| 2688700     | 1              | Local Water                   | Unnamed                       |
| 2688800     | 1              | Mcgraw Lake                   | McGraw Lake                   |
| 2689100     | 1              | North Channel St. Croix River | St Croix River -North Channel |
| 2689300     | 1              | Un Spring                     | Un Spring                     |
| 2689400     | 1              | Perkins Creek                 | Perkins Creek                 |
| 2689500     | 1              | Namekagon River               | Namekagon River               |

## Wisconsin Department of Natural Resources SWIMS Project Summary

| <b>WBIC</b> | <b>Segment</b> | <b>Local Name</b>                 | <b>Official Name</b>     |
|-------------|----------------|-----------------------------------|--------------------------|
| 2689600     | 1              | Dogtown Creek                     | Dogtown Creek            |
| 2689700     | 1              | Dogtown Springs                   | Dogtown Lake             |
| 2689800     | 1              | Totagatic River                   | Totagatic River          |
| 2689900     | 1              | Barrens Brook                     | Barrens Brook            |
| 2690100     | 1              | Barrens Springs No. 2             | Barrens Springs No. 2    |
| 2690200     | 1              | Barrens Spring # 1                | Barrens Springs No. 1    |
| 2705100     | 1              | Jones (Webb) Creek                | Webb Creek               |
| 2705400     | 1              | Webb Lake (Web)                   | Webb Lake                |
| 2705500     | 1              | Nelson Creek                      | Nelson Creek             |
| 2705700     | 1              | Big Bear Lake                     | Big Bear Lake            |
| 2706100     | 1              | Namekagon River Trib (S18)        | Unnamed                  |
| 2706200     | 2              | Mckenzie Creek                    | McKenzie Creek           |
| 2706300     | 1              | Mckenzie Lake, Lower              | Lower McKenzie Lake      |
| 2706500     | 1              | Mckenzie Lake, Middle             | Middle McKenzie Lake     |
| 2706700     | 1              | Lindy Lake                        | Lindy Lake               |
| 2706800     | 1              | Big Mckenzie Lake                 | McKenzie Lake            |
| 2707000     | 1              | Lost Lake T39n R14w S02           | Lost Lake                |
| 2707200     | 1              | Unnamed Lake                      | Unnamed T40n R14w S36-15 |
| 2735800     | 1              | Moore Farm Creek                  | Moore Farm Creek         |
| 2735900     | 1              | Clemens Creek                     | Clemens Creek            |
| 2735900     | 2              | Clemens Creek                     | Clemens Creek            |
| 2736000     | 1              | Rand Creek                        | Unnamed                  |
| 2736100     | 1              | Rand Creek                        | Unnamed                  |
| 5003602     | 1              | Unnamed Stream                    | Unnamed                  |
| 5003607     | 1              | Unnamed Stream                    | Unnamed                  |
| 5003630     | 1              | Unnamed Trib to Saint Croix River | Unnamed                  |
| 5003640     | 1              | Unnamed Trib to St. Croix River   | Unnamed                  |
| 5003697     | 1              | Unnamed Stream                    | Unnamed                  |
| 5003730     | 1              | Unnamed Stream                    | Unnamed                  |
| 5003767     | 1              | Unnamed Stream                    | Unnamed                  |
| 5003775     | 1              | Unnamed Stream                    | Unnamed                  |
| 5003784     | 1              | Unnamed Stream                    | Unnamed                  |
| 5003794     | 1              | Unnamed Stream                    | Unnamed                  |
| 5003803     | 1              | Unnamed Stream                    | Unnamed                  |
| 5003822     | 1              | Unnamed Stream                    | Unnamed                  |
| 5003843     | 1              | unnamed Stream                    | Unnamed                  |
| 5003852     | 1              | Local Water                       | Unnamed                  |
| 5003854     | 1              | East Brook                        | Unnamed                  |
| 5003855     | 1              | Unnamed Stream                    | Unnamed                  |
| 5003894     | 1              | Local Water                       | Unnamed                  |
| 5003910     | 1              | Unnamed Stream                    | Unnamed                  |
| 5003911     | 1              | Local Water                       | Unnamed                  |
| 5003922     | 1              | Local Water                       | Unnamed                  |
| 5003934     | 1              | Local Water                       | Unnamed                  |
| 5003944     | 1              | Local Water                       | Unnamed                  |
| 5003946     | 1              | Local Water                       | Unnamed                  |
| 5003951     | 1              | Local Water                       | Unnamed                  |
| 5003957     | 1              | Local Water                       | Unnamed                  |



## Wisconsin Department of Natural Resources SWIMS Project Summary

| <b>WBIC</b> | <b>Segment</b> | <b>Local Name</b> | <b>Official Name</b> |
|-------------|----------------|-------------------|----------------------|
| 5003984     | 1              | Unnamed Stream    | Unnamed              |
| 5004007     | 1              | Unnamed Stream    | Unnamed              |
| 5004019     | 1              | Local Water       | Unnamed              |
| 5004048     | 1              | Local Water       | Unnamed              |
| 5004050     | 1              | Unnamed Stream    | Unnamed              |
| 5004112     | 1              | Local Water       | Unnamed              |
| 5004132     | 1              | Local Water       | Unnamed              |
| 5004134     | 1              | Local Water       | Unnamed              |
| 5004154     | 1              | Local Water       | Unnamed              |
| 5004166     | 1              | Local Water       | Unnamed              |
| 5004188     | 1              | Local Water       | Unnamed              |
| 5004206     | 1              | Local Water       | Unnamed              |
| 5004229     | 1              | Unnamed Stream    | Unnamed              |
| 5004235     | 1              | Unnamed Stream    | Unnamed              |
| 5004271     | 1              | Local Water       | Unnamed              |
| 5004274     | 1              | Local Water       | Unnamed              |
| 5004276     | 1              | Unnamed Stream    | Unnamed              |
| 5004280     | 1              | Unnamed Stream    | Unnamed              |
| 5004296     | 1              | Unnamed Stream    | Unnamed              |
| 5004350     | 1              | Unnamed Stream    | Unnamed              |
| 5004358     | 1              | Unnamed Stream    | Unnamed              |
| 5004364     | 1              | Unnamed Stream    | Unnamed              |
| 5004512     | 1              | Spring Branch     | Unnamed              |
| 5504911     | 1              | Local Water       | Unnamed              |
| 5504938     | 1              | Local Water       | Unnamed              |
| 5505287     | 1              | Local Water       | Unnamed              |
| 5505400     | 1              | Local Water       | Unnamed              |
| 5505412     | 1              | Local Water       | Unnamed              |
| 5505662     | 1              | Local Water       | Unnamed              |
| 5506053     | 1              | Local Water       | Unnamed              |
| 5506594     | 1              | Local Water       | Unnamed              |
| 5506951     | 1              | Local Water       | Unnamed              |
| 5507160     | 1              | Local Water       | Unnamed              |
| 5507326     | 1              | Local Water       | Unnamed              |
| 5507414     | 1              | Local Water       | Unnamed              |
| 5507464     | 1              | Local Water       | Unnamed              |
| 5507496     | 1              | Local Water       | Unnamed              |
| 5507575     | 1              | Local Water       | Unnamed              |
| 5507618     | 1              | Local Water       | Unnamed              |
| 5507722     | 1              | Local Water       | Unnamed              |
| 5507809     | 1              | Local Water       | Unnamed              |
| 5507864     | 1              | Local Water       | Unnamed              |
| 5508001     | 1              | Local Water       | Unnamed              |
| 5508002     | 1              | Local Water       | Unnamed              |
| 5508017     | 1              | Local Water       | Unnamed              |
| 5508055     | 1              | Local Water       | Unnamed              |
| 5508082     | 1              | Local Water       | Unnamed              |
| 5508148     | 1              | Local Water       | Unnamed              |

## Wisconsin Department of Natural Resources SWIMS Project Summary

| <b>WBIC</b> | <b>Segment</b> | <b>Local Name</b> | <b>Official Name</b> |
|-------------|----------------|-------------------|----------------------|
| 5508209     | 1              | Local Water       | Unnamed              |
| 5508257     | 1              | Local Water       | Unnamed              |
| 5508265     | 1              | Local Water       | Unnamed              |
| 5508379     | 1              | Local Water       | Unnamed              |
| 5508517     | 1              | Local Water       | Unnamed              |
| 5508591     | 1              | Local Water       | Unnamed              |
| 5508665     | 1              | Local Water       | Unnamed              |
| 5508775     | 1              | Local Water       | Unnamed              |
| 5508780     | 1              | Local Water       | Unnamed              |
| 5508887     | 1              | Local Water       | Unnamed              |
| 5508927     | 1              | Local Water       | Unnamed              |
| 5508980     | 1              | Local Water       | Unnamed              |
| 5508982     | 1              | Local Water       | Unnamed              |
| 5509004     | 1              | Local Water       | Unnamed              |
| 5509017     | 1              | Local Water       | Unnamed              |
| 5509097     | 1              | Local Water       | Unnamed              |
| 5509136     | 1              | Local Water       | Unnamed              |
| 5509262     | 1              | Local Water       | Unnamed              |
| 5509285     | 1              | Local Water       | Unnamed              |
| 5509301     | 1              | Local Water       | Unnamed              |
| 5509322     | 1              | Local Water       | Unnamed              |
| 5509414     | 1              | Local Water       | Unnamed              |
| 5509449     | 1              | Local Water       | Unnamed              |
| 5509477     | 1              | Local Water       | Unnamed              |
| 5509485     | 1              | Local Water       | Unnamed              |
| 5509497     | 1              | Local Water       | Unnamed              |
| 5509533     | 1              | Local Water       | Unnamed              |
| 5509539     | 1              | Local Water       | Unnamed              |
| 5509551     | 1              | Local Water       | Unnamed              |
| 5509577     | 1              | Local Water       | Unnamed              |
| 5509671     | 1              | Local Water       | Unnamed              |
| 5509716     | 1              | Local Water       | Unnamed              |
| 5509720     | 1              | Local Water       | Unnamed              |
| 5509739     | 1              | Local Water       | Unnamed              |
| 5509767     | 1              | Local Water       | Unnamed              |
| 5509802     | 1              | Local Water       | Unnamed              |
| 5509829     | 1              | Local Water       | Unnamed              |
| 5509853     | 1              | Local Water       | Unnamed              |
| 5509956     | 1              | Local Water       | Unnamed              |
| 5509965     | 1              | Local Water       | Unnamed              |
| 5510027     | 1              | Local Water       | Unnamed              |
| 5510058     | 1              | Local Water       | Unnamed              |
| 5510223     | 1              | Local Water       | Unnamed              |
| 5510264     | 1              | Local Water       | Unnamed              |
| 5510290     | 1              | Local Water       | Unnamed              |
| 5510311     | 1              | Local Water       | Unnamed              |
| 5510329     | 1              | Local Water       | Unnamed              |
| 5510361     | 1              | Local Water       | Unnamed              |

## Wisconsin Department of Natural Resources SWIMS Project Summary

| <b>WBIC</b> | <b>Segment</b> | <b>Local Name</b> | <b>Official Name</b> |
|-------------|----------------|-------------------|----------------------|
| 5510373     | 1              | Local Water       | Unnamed              |
| 5510463     | 1              | Local Water       | Unnamed              |
| 5510548     | 1              | Local Water       | Unnamed              |
| 5510638     | 1              | Local Water       | Unnamed              |
| 5510913     | 1              | Local Water       | Unnamed              |
| 5510922     | 1              | Local Water       | Unnamed              |
| 5511141     | 1              | Local Water       | Unnamed              |
| 5511152     | 1              | Local Water       | Unnamed              |
| 5511235     | 1              | Local Water       | Unnamed              |
| 5511343     | 1              | Local Water       | Unnamed              |
| 5511356     | 1              | Local Water       | Unnamed              |
| 5511399     | 1              | Local Water       | Unnamed              |
| 5511476     | 1              | Local Water       | Unnamed              |
| 5511603     | 1              | Local Water       | Unnamed              |
| 5511691     | 1              | Local Water       | Unnamed              |
| 5511717     | 1              | Local Water       | Unnamed              |
| 5511758     | 1              | Local Water       | Unnamed              |
| 5511795     | 1              | Local Water       | Unnamed              |
| 5511803     | 1              | Local Water       | Unnamed              |
| 5511822     | 1              | Local Water       | Unnamed              |
| 5511831     | 1              | Local Water       | Unnamed              |
| 5511840     | 1              | Local Water       | Unnamed              |
| 5511892     | 1              | Local Water       | Unnamed              |
| 5511897     | 1              | Local Water       | Unnamed              |
| 5511906     | 1              | Local Water       | Unnamed              |
| 5511942     | 1              | Local Water       | Unnamed              |
| 5512046     | 1              | Local Water       | Unnamed              |
| 5512121     | 1              | Local Water       | Unnamed              |
| 5512149     | 1              | Local Water       | Unnamed              |
| 5512157     | 1              | Local Water       | Unnamed              |
| 5512268     | 1              | Local Water       | Unnamed              |
| 5512302     | 1              | Local Water       | Unnamed              |
| 5512303     | 1              | Local Water       | Unnamed              |
| 5512305     | 1              | Local Water       | Unnamed              |
| 5512331     | 1              | Local Water       | Unnamed              |
| 5512381     | 1              | Local Water       | Unnamed              |
| 5512447     | 1              | Local Water       | Unnamed              |
| 5512641     | 1              | Local Water       | Unnamed              |
| 5512672     | 1              | Local Water       | Unnamed              |
| 5512816     | 1              | Local Water       | Unnamed              |
| 5512838     | 1              | Local Water       | Unnamed              |
| 5512842     | 1              | Local Water       | Unnamed              |
| 5512859     | 1              | Local Water       | Unnamed              |
| 5512992     | 1              | Local Water       | Unnamed              |
| 5513008     | 1              | Unnamed           | Unnamed              |
| 5513118     | 1              | Local Water       | Unnamed              |
| 5513224     | 1              | Local Water       | Unnamed              |
| 5513243     | 1              | Local Water       | Unnamed              |

## Wisconsin Department of Natural Resources SWIMS Project Summary

| <b>WBIC</b> | <b>Segment</b> | <b>Local Name</b>    | <b>Official Name</b> |
|-------------|----------------|----------------------|----------------------|
| 5513276     | 1              | Local Water          | Unnamed              |
| 5513297     | 1              | Local Water          | Unnamed              |
| 5513318     | 1              | Local Water          | Unnamed              |
| 5513339     | 1              | Local Water          | Unnamed              |
| 5513405     | 1              | Local Water          | Unnamed              |
| 5513427     | 1              | Local Water          | Unnamed              |
| 5513454     | 1              | Local Water          | Unnamed              |
| 5513464     | 1              | Local Water          | Unnamed              |
| 5513508     | 1              | Local Water          | Unnamed              |
| 5513523     | 1              | Local Water          | Unnamed              |
| 5513677     | 1              | Local Water          | Unnamed              |
| 5513681     | 1              | Local Water          | Unnamed              |
| 5513689     | 1              | Local Water          | Unnamed              |
| 5513702     | 1              | Local Water          | Unnamed              |
| 5513732     | 1              | Local Water          | Unnamed              |
| 5513753     | 1              | Local Water          | Unnamed              |
| 5513779     | 1              | Local Water          | Unnamed              |
| 5513840     | 1              | Local Water          | Unnamed              |
| 5513889     | 1              | Local Water          | Unnamed              |
| 5513924     | 1              | Local Water          | Unnamed              |
| 5513978     | 1              | Local Water          | Unnamed              |
| 5514108     | 1              | Local Water          | Unnamed              |
| 5514188     | 1              | Local Water          | Unnamed              |
| 5514262     | 1              | Local Water          | Unnamed              |
| 5514301     | 1              | Local Water          | Unnamed              |
| 5514310     | 1              | Local Water          | Unnamed              |
| 5514312     | 1              | Local Water          | Unnamed              |
| 5514364     | 1              | Local Water          | Unnamed              |
| 5514397     | 1              | Local Water          | Unnamed              |
| 5514441     | 1              | Local Water          | Unnamed              |
| 5514507     | 1              | Spencer Springs pond | Unnamed              |
| 5514649     | 1              | Local Water          | Unnamed              |
| 5514729     | 1              | Local Water          | Unnamed              |
| 5514808     | 1              | Local Water          | Unnamed              |
| 5514874     | 1              | Local Water          | Unnamed              |
| 5514911     | 1              | Local Water          | Unnamed              |
| 5515037     | 1              | Local Water          | Unnamed              |
| 5515252     | 1              | Local Water          | Unnamed              |
| 5515269     | 1              | Local Water          | Unnamed              |
| 5515428     | 1              | Local Water          | Unnamed              |
| 5515607     | 1              | Local Water          | Unnamed              |
| 5515706     | 1              | Local Water          | Unnamed              |
| 5515767     | 1              | Local Water          | Unnamed              |
| 5515774     | 1              | Local Water          | Unnamed              |
| 5516139     | 1              | Local Water          | Unnamed              |
| 5516210     | 1              | Local Water          | Unnamed              |
| 5516304     | 1              | Local Water          | Unnamed              |
| 5516326     | 1              | Local Water          | Unnamed              |

## Wisconsin Department of Natural Resources SWIMS Project Summary

| WBIC    | Segment | Local Name    | Official Name |
|---------|---------|---------------|---------------|
| 5516436 | 1       | Local Water   | Unnamed       |
| 5516455 | 1       | Local Water   | Unnamed       |
| 5516543 | 1       | Local Water   | Unnamed       |
| 5516619 | 1       | Local Water   | Unnamed       |
| 5516625 | 1       | Local Water   | Unnamed       |
| 5516671 | 1       | Freedom Lakes | Freedom Lakes |
| 5516696 | 1       | Local Water   | Unnamed       |
| 5516738 | 1       | Local Water   | Unnamed       |
| 5516749 | 1       | Local Water   | Unnamed       |
| 5516968 | 1       | Local Water   | Unnamed       |
| 5516983 | 1       | Local Water   | Unnamed       |
| 5517020 | 1       | Local Water   | Unnamed       |
| 5581830 | 1       | Local Water   | Unnamed       |
| 5582823 | 1       | Local Water   | Unnamed       |
| 5582919 | 1       | Local Water   | Unnamed       |
| 5582924 | 1       | Local Water   | Unnamed       |
| 5583016 | 1       | Local Water   | Unnamed       |
| 5583076 | 1       | Local Water   | Unnamed       |
| 5583121 | 1       | Local Water   | Unnamed       |
| 5583123 | 1       | Local Water   | Unnamed       |
| 5583185 | 1       | Local Water   | Unnamed       |
| 5583200 | 1       | Local Water   | Unnamed       |
| 5583202 | 1       | Local Water   | Unnamed       |
| 5583213 | 1       | Local Water   | Unnamed       |
| 5583214 | 1       | Local Water   | Unnamed       |
| 5583215 | 1       | Local Water   | Unnamed       |
| 5583226 | 1       | Local Water   | Unnamed       |
| 5583285 | 1       | Local Water   | Unnamed       |
| 5583304 | 1       | Local Water   | Unnamed       |
| 5583309 | 1       | Local Water   | Unnamed       |
| 5583407 | 1       | Local Water   | Unnamed       |
| 5583428 | 1       | Local Water   | Unnamed       |
| 5589218 | 1       | Unnamed       | Unnamed       |
| 5590431 | 1       | Local Water   | Unnamed       |
| 5590474 | 1       | Local Water   | Unnamed       |
| 5590833 | 1       | Local Water   | Unnamed       |

### Lab Account Codes

| Account Code | Description           | Start Date | End Date   |
|--------------|-----------------------|------------|------------|
| WT161        | EVALUATION MONITORING | 05/10/2012 | 12/31/2014 |

### Forms

| Form Code         | Form Name   |
|-------------------|---|
| CONTINUOUS        | Continuous Data Upload                                  |
| INORGANIC         | Inorganic Lab - Field Data                              |
| SECCHI_TEMPDO_PLI | Lake Monitoring - Secchi, Temp., D.O., pH, Conductivity |
| CBSM-TEST         | Macroinvertebrate Field Data                            |

## Wisconsin Department of Natural Resources SWIMS Project Summary

| Form Code       | Form Name                                       |
|-----------------|---|
| NONWADEABLE_MAC | Non-wadeable Macroinvertebrate Field Data       |
| WT-001-2010     | Stream Baseflow Data                            |
| STREAM_MON      | Stream Monitoring (Temp, DO, Trans, Flow)       |
| WADEABLE_MACRO_ | Wadeable Macroinvertebrate Field & Habitat Data |

### Methods

| Method Code  | Description  |
|--|--|
| DNR-FPM-1001.3   | Benthic Invertebrate D-Frame Net, Kick Samples 1988      |
| DNR-FPM-1001.3   | Benthic Invertebrate D-Frame Net, Kick Samples 1988      |
| CLMN_QAQC_2008   | CLMN - QAQC 2008   |
| DNR-FPM-2201   | Conductivity Instantaneous Field Meters 1993             |
| DNR-FPM-2010, D.O. METER                                 | Dissolved Oxygen Digital Instantaneous Field Meters 1995 |
| DNR-FPM 2101 DISSOLVED OXYGEN METERS                     | Dissolved Oxygen Meters                                  |
| ELECTROFISHING: BACKPACK SHOCKER                         | Electrofishing: Backpack Shocker                         |
| FISH SURVEY BASELINE PROTOCOLS                           | Fish Survey Baseline Protocols 2004                      |
| DNR-FPM 3002 GLOBAL POSITIONING SYSTEM (GPS)             | Global Positioning System (GPS)                          |
| HABITAT SURVEY BASELINE PROTOCOLS                        | Habitat Baseline Survey Quantitative 2004                |
| DNR-FPM APPENDIX B INORGANIC SAMPLE SHIPPER INSTRUCTIONS | Inorganic Sample Shipper Instructions 1998               |
| DNR-FPM 2301 OPEN CHANNEL FLOW MEASUREMENT               | Open Channel Flow Measurement                            |
| DNR-FPM-2301   | Open Channel Flow Measurement 1988                       |
| SEDIMENT SINGLE GRAB                                     | Sediment Sample: Single Grab                             |
| SAMPLING EQUIPMENT AND PROCEDURES                        | Sediment Sampling Equipment and Procedures 2015          |
| DNR-FPM-501.1  | Soil Sampling  |
| DNR-FPM 500 SOIL SAMPLING                                | Soil Sampling  |
| DNR-FPM 2502 TEMPERATURE - ELECTRONIC                    | Temperature Electronic                                   |
| GRAB SAMPLE  | Water Grab Sample Guidelines and Procedures 2005         |
| DNR-FPM-2001, PH METERS                                  | pH Digital Instantaneous Field Meters 1993               |

### Fieldwork Events

| Start Date       | Status   | Field ID | Station ID | Station Name                                     |
|------------------|----------|----------|------------|--|
| 04/11/2014 13:00 | COMPLETE | HD-3     | 10041942   | Hay Creek 10m west of CTH F                      |
| 04/11/2014 14:00 | COMPLETE | NF-1     | 10041943   | Unnamed stream 10m DS of Lundquist Rd.           |
| 04/11/2014 15:00 | COMPLETE | WC-2     | 10037789   | Whiskey Creek 110m DS CTH D                      |
| 05/07/2014 13:00 | COMPLETE | SPE-1    | 10042116   | East spring at iron deposition area              |
| 05/07/2014 13:15 | COMPLETE | SPW-2    | 10042117   | West spring at iron deposition area              |
| 05/14/2014 09:00 | COMPLETE | NF-1     | 10041943   | Unnamed stream 10m DS of Lundquist Rd.           |
| 05/14/2014 10:00 | COMPLETE | WH-2     | 10037789   | Whiskey Creek 110m DS CTH D                      |
| 05/14/2014 11:00 | COMPLETE | HA-3     | 10041942   | Hay Creek 10m west of CTH F                      |
| 05/14/2014 12:15 | COMPLETE | SSP-4    | 10042154   | Sandstone Spring at Norway Point                 |
| 05/14/2014 13:00 | COMPLETE | ISP-5    | 10042155   | Iron Spring at Norway Point                      |
| 05/14/2014 13:30 | COMPLETE | BU-7     | 10042158   | Buggert Creek at Buggert Lake Rd.                |
| 05/14/2014 14:30 | COMPLETE | KY-6     | 10042157   | Unnamed (Kylingstad) Creek at North Fork Dike Rd |

## Wisconsin Department of Natural Resources SWIMS Project Summary

| Start Date       | Status   | Field ID | Station ID | Station Name                                     |
|------------------|----------|----------|------------|--|
| 05/31/2014 10:00 | COMPLETE | NF-1     | 10041943   | Unnamed stream 10m DS of Lundquist Rd.           |
| 05/31/2014 11:00 | COMPLETE | WH-2     | 10037789   | Whiskey Creek 110m DS CTH D                      |
| 05/31/2014 11:45 | COMPLETE | HA-3     | 10041942   | Hay Creek 10m west of CTH F                      |
| 06/01/2014 00:45 | COMPLETE |          | 10041942   | Hay Creek 10m west of CTH F                      |
| 06/01/2014 00:46 | COMPLETE |          | 10041943   | Unnamed stream 10m DS of Lundquist Rd.           |
| 06/16/2014       | COMPLETE | HA-4     | 10041942   | Hay Creek 10m west of CTH F                      |
| 06/16/2014 09:00 | COMPLETE | KY-1     | 10042157   | Unnamed (Kylingstad) Creek at North Fork Dike Rd |
| 06/16/2014 10:00 | COMPLETE | NF-2     | 10041943   | Unnamed stream 10m DS of Lundquist Rd.           |
| 06/16/2014 11:00 | COMPLETE | WH-3     | 10037789   | Whiskey Creek 110m DS CTH D                      |
| 06/26/2014 10:00 | COMPLETE | HA-1     | 10041942   | Hay Creek 10m west of CTH F                      |
| 06/26/2014 10:30 | COMPLETE | KY-6     | 10042157   | Unnamed (Kylingstad) Creek at North Fork Dike Rd |
| 06/26/2014 10:30 | COMPLETE | WH-2     | 10037789   | Whiskey Creek 110m DS CTH D                      |
| 06/26/2014 11:00 | COMPLETE | NF-3     | 10041943   | Unnamed stream 10m DS of Lundquist Rd.           |
| 06/26/2014 13:45 | COMPLETE | NFWD-4   | 10042343   | West ditch to N. Fk. Creek at Lundquist Rd       |
| 06/26/2014 14:00 | COMPLETE | NFED-5   | 10042342   | East ditch to N. Fk. Creek at Lundquist Rd       |
| 07/11/2014 09:00 | COMPLETE | WO-10    | 073029     | Wood River at Hwy 70, East Crossing              |
| 07/11/2014 09:30 | COMPLETE | NFW-11   | 073115     | Wood River North Fork - Upper Cth D Xing         |
| 07/11/2014 10:00 | COMPLETE | KY-12    | 10042157   | Unnamed (Kylingstad) Creek at North Fork Dike Rd |
| 07/11/2014 10:30 | COMPLETE | NF-13    | 10041943   | Unnamed stream 10m DS of Lundquist Rd.           |
| 07/11/2014 11:00 | COMPLETE | HA-15    | 10041942   | Hay Creek 10m west of CTH F                      |
| 07/11/2014 11:00 | COMPLETE | WH-14    | 10037789   | Whiskey Creek 110m DS CTH D                      |
| 07/11/2014 11:30 | COMPLETE | EK-16    | 10042427   | Ekdall Creek 5 m above mouth                     |
| 07/15/2014 10:00 | COMPLETE | UNN-1    | 10042443   | Unnamed stream near Nordstrum Rd                 |
| 07/15/2014 13:00 | COMPLETE | UNB-2    | 10042444   | Unnamed stream near Bang Rd                      |
| 07/17/2014 12:10 | COMPLETE | UND-6    | 10042446   | Unnamed stream 37 m DS North Fork Dike Rd        |
| 07/25/2014       | COMPLETE | NF-5     | 10041943   | Unnamed stream 10m DS of Lundquist Rd.           |
| 07/25/2014       | COMPLETE | WH-3     | 10037789   | Whiskey Creek 110m DS CTH D                      |
| 07/25/2014 10:00 | COMPLETE | HAF-2    | 10041942   | Hay Creek 10m west of CTH F                      |
| 07/25/2014 13:00 | COMPLETE | KY-6     | 10042157   | Unnamed (Kylingstad) Creek at North Fork Dike Rd |
| 07/25/2014 14:30 | COMPLETE | SA-7     | 10042446   | Unnamed stream 37 m DS North Fork Dike Rd        |
| 08/20/2014 10:00 | COMPLETE | WO-1     | 073029     | Wood River at Hwy 70, East Crossing              |
| 08/20/2014 10:30 | COMPLETE | NFW-2    | 073115     | Wood River North Fork - Upper Cth D Xing         |
| 08/20/2014 11:00 | COMPLETE | NFC-3    | 10041943   | Unnamed stream 10m DS of Lundquist Rd.           |
| 08/20/2014 11:30 | COMPLETE | SA-4     | 10042446   | Unnamed stream 37 m DS North Fork Dike Rd        |
| 08/20/2014 13:00 | COMPLETE | WH-5     | 10037789   | Whiskey Creek 110m DS CTH D                      |
| 08/20/2014 14:00 | COMPLETE | HA-6     | 10041942   | Hay Creek 10m west of CTH F                      |
| 09/02/2014 10:00 | COMPLETE | SA-1     | 10042446   | Unnamed stream 37 m DS North Fork Dike Rd        |
| 09/02/2014 10:30 | COMPLETE | NF-2     | 10041943   | Unnamed stream 10m DS of Lundquist Rd.           |
| 09/02/2014 11:00 | COMPLETE | WH-3     | 10037789   | Whiskey Creek 110m DS CTH D                      |
| 09/02/2014 13:00 | COMPLETE | HA-4     | 10041942   | Hay Creek 10m west of CTH F                      |
| 09/15/2014 10:00 | COMPLETE | NF-1     | 10041943   | Unnamed stream 10m DS of Lundquist Rd.           |
| 09/15/2014 11:00 | COMPLETE | WH-2     | 10037789   | Whiskey Creek 110m DS CTH D                      |
| 09/15/2014 11:45 | COMPLETE | HA-3     | 10041942   | Hay Creek 10m west of CTH F                      |
| 09/18/2014 10:00 | COMPLETE | HC-1     | 10042676   | Hay Creek Flowage at outlet                      |
| 09/18/2014 10:30 | COMPLETE | LD-2     | 10042677   | Lower L Dike                                     |
| 09/18/2014 11:00 | COMPLETE | P3-3     | 10042678   | Phantom Flowage                                  |
| 09/18/2014 11:30 | COMPLETE | P1-4     | 10042679   | Phantom Flowage near SE corner                   |
| 09/18/2014 12:10 | COMPLETE | RI-5     | 10042680   | Rice Lake near center                            |

## Wisconsin Department of Natural Resources SWIMS Project Summary

| Start Date       | Status   | Field ID | Station ID | Station Name                             |
|------------------|----------|----------|------------|--|
| 09/18/2014 13:00 | COMPLETE | SR-6     | 10042681   | South Refuge Flowage near outlet         |
| 09/18/2014 13:30 | COMPLETE | NF-7     | 10042682   | North Fork Flowage near outlet           |
| 09/18/2014 14:00 | COMPLETE | UN-8     | 10042683   | Upper North Fork Flowage                 |
| 09/23/2014 10:00 | COMPLETE | HA-6     | 10042732   | Hay Creek Flowage (outlet end)           |
| 09/23/2014 10:00 | COMPLETE | LL-5     | 10042731   | Lower L Dike along CTH F                 |
| 09/23/2014 10:00 | COMPLETE | NF-2     | 10042728   | North Fork Flowage                       |
| 09/23/2014 10:00 | COMPLETE | P1-8     | 10042734   | Phantom Flowage near east 1 tube outlet  |
| 09/23/2014 10:00 | COMPLETE | P3-7     | 10042733   | Phantom Flowage near 3 tube outlet       |
| 09/23/2014 10:00 | COMPLETE | RI-4     | 10042730   | Rice Lake                                |
| 09/23/2014 10:00 | COMPLETE | SR-3     | 10042729   | South Refuge Flowage near Main Dyke Rd   |
| 09/23/2014 10:00 | COMPLETE | UN-1     | 10042727   | Upper North Fork Flowage                 |
| 09/24/2014 10:00 | COMPLETE | HA-1     | 10041942   | Hay Creek 10m west of CTH F              |
| 09/24/2014 11:00 | COMPLETE | WH-2     | 10037789   | Whiskey Creek 110m DS CTH D              |
| 09/24/2014 11:30 | COMPLETE | NF-3     | 10041943   | Unnamed stream 10m DS of Lundquist Rd.   |
| 10/09/2014 10:00 | COMPLETE | WO-1     | 073029     | Wood River at Hwy 70, East Crossing      |
| 10/20/2014 11:00 | COMPLETE | NF-2     | 073115     | Wood River North Fork - Upper Cth D Xing |
| 10/20/2014 12:30 | COMPLETE | HA-1     | 10041942   | Hay Creek 10m west of CTH F              |
| 10/20/2014 13:00 | COMPLETE | WH-2     | 10037789   | Whiskey Creek 110m DS CTH D              |
| 10/20/2014 13:30 | COMPLETE | NF-3     | 10041943   | Unnamed stream 10m DS of Lundquist Rd.   |
| 12/05/2014 09:00 | COMPLETE | NC-1     | 10042428   | Unnamed Tributary 155 m DS North Rd      |
| 12/05/2014 09:30 | COMPLETE | NF-2     | 10041943   | Unnamed stream 10m DS of Lundquist Rd.   |
| 12/05/2014 10:00 | COMPLETE | WH-3     | 10037789   | Whiskey Creek 110m DS CTH D              |
| 12/05/2014 10:30 | COMPLETE | HA-4     | 10041942   | Hay Creek 10m west of CTH F              |
| 12/05/2014 11:00 | COMPLETE | IR-5     | 10042377   | Iron Creek 124 m DS Sadlers Rd           |
| 12/05/2014 12:05 | COMPLETE | NO-6     | 10042443   | Unnamed stream near Nordstrum Rd         |
| 12/05/2014 12:30 | COMPLETE | EK-7     | 10042427   | Ekdall Creek 5 m above mouth             |
| 03/02/2015 10:00 | COMPLETE | UNF-1    | 10042683   | Upper North Fork Flowage                 |
| 03/02/2015 11:00 | COMPLETE | NF-2     | 10042682   | North Fork Flowage near outlet           |
| 03/02/2015 12:10 | COMPLETE | PF1T-4   | 10042679   | Phantom Flowage near SE corner           |
| 03/02/2015 13:00 | COMPLETE | PF3T-5   | 10042678   | Phantom Flowage                          |
| 03/02/2015 14:00 | COMPLETE | RI-6     | 10042680   | Rice Lake near center                    |

### Documents

| Title  | Description  | Author                                   | Published  | Comments |
|--|--|--|------------|----------|
| Crex Meadows Fish Data, appendix 4                           |  | Craig Roesler                            | 02/26/2016 |          |
| Crex Meadows Flowage Sediment Data, appendix 3               |  | Craig Roesler                            | 02/26/2016 |          |
| Crex Meadows Soils Data, appendix 1                          |  | Craig Roesler                            | 02/26/2016 |          |
| Crex Meadows Water Quality Data, appendix 2                  |  | Craig Roesler                            | 02/26/2016 |          |
| Crex Meadows Wildlife Area Water Quality Assessment, 2016    |  | Craig Roesler, Rachel Peacher, Tim Parks | 02/26/2016 |          |
| Crex Meadows Wildlife Area Water Quality Concerns            |  | Craig Roesler                            | 03/24/2014 |          |
| Ekdall Cr 5m above mouth, 2014, Natural Community Validation | Ekdall Cr 5m above mouth, 2014, Natural Community Validation | Madeline Roberts                         | 05/30/2017 |          |
| Hay Creek 170m DS STH 70, 2014, Natural                      | Hay Creek 170m DS STH 70, 2014, Natural Community Validation | Madeline Robert                          | 05/30/2017 |          |



## Wisconsin Department of Natural Resources SWIMS Project Summary

| Title  | Description  | Author           | Published  | Comments |
|--|--|------------------|------------|----------|
| Community Validation   |  |                  |            |          |
| Hay Creek 177m DS Benson Rd., 2014, Natural Community Validation                                 | Hay Creek 177m DS Benson Rd., 2014, Natural Community Validation                                 | Madeline Roberts | 05/31/2017 |          |
| Hay Creek 20m US Borg Rd., 2014, Natural Community Validation                                    | Hay Creek 20m US Borg Rd., 2014, Natural Community Validation                                    | Madeline Roberts | 05/30/2017 |          |
| Iron Creek 124m DS sadlers Rd., 2014, Natural Community Validation                               | Iron Creek 124m DS sadlers Rd., 2014, Natural Community Validation                               | Madeline Roberts | 05/30/2017 |          |
| N Fork Wood River 20m US Shearman Rd., 2014, Natural Community Validation                        | N Fork Wood River 20m US Shearman Rd., 2014, Natural Community Validation                        | Madeline Roberts | 05/24/2017 |          |
| NC.Ver_Stn_10042530_SSN_515076555_Report   | NC.Ver_Stn_10042530_SSN_515076555_Report.pdf   |                  | 09/19/2019 |          |
| NOR_06_CMP14 status 10132016   | NOR_06_CMP14 status 10 13 2016   | SWIMS Reports    | 10/13/2016 |          |
| North For Wood River 30m US Fossum Rd., 2014, Natural Community Validation                       | North For Wood River 30m US Fossum Rd., 2014, Natural Community Validation                       | Madeline Roberts | 05/31/2017 |          |
| North Fork Wood River at CTH D Lower Crossing, 2014, Natural Community Validation                | North Fork Wood River at CTH D Lower Crossing, 2014, Natural Community Validation                | Madeline Roberts | 07/10/2017 |          |
| Unnamed (North Fork Cr) stream 160m DS of North Fork Flowage, 2014, Natural Community Validation | Unnamed (North Fork Cr) stream 160m DS of North Fork Flowage, 2014, Natural Community Validation | Madeline Roberts | 05/30/2017 |          |
| Unnamed Stream 10m DS of Lundquist Rd., 2014, Natural Community Validation                       | Unnamed Stream 10m DS of Lundquist Rd., 2014, Natural Community Validation                       | Madeline Roberts | 07/10/2017 |          |
| Unnamed Stream 155 m ds North Rd., 2014, Natural Community Validation                            | Unnamed Stream 155 m ds North Rd., 2014, Natural Community Validation                            |                  |            |          |
| Unnamed Stream 3m US Fossum Rd, 2014, Natural Community Validation                               | Unnamed Stream 3m US Fossum Rd, 2014, Natural Community Validation                               | Madeline Roberts | 07/10/2017 |          |
| Unnamed Stream Near Nordstrum Rd, 2014, Natural Community Validation                             | Unnamed Stream Near Nordstrum Rd, 2014, Natural Community Validation                             | Madeline Roberts | 05/24/2017 |          |
| Unnamed Stream near Bang Rd., 2014, Natural Community Validation                                 | Unnamed Stream near Bang Rd., 2014, Natural Community Validation                                 | Madeline Roberts | 05/30/2017 |          |
| Whiskey Creek 110m DS CTH D, 2014, Natural Community Verification                                | Whiskey Creek 110m DS CTH D, 2014, Natural Community Verification                                | Madeline Roberts | 07/10/2017 |          |
| Whiskey Creek 192m DS Whiskey Creek Flowage, 2014, Natural Community Validation                  | Whiskey Creek 192m DS Whiskey Creek Flowage, 2014, Natural Community Validation                  | Madeline Roberts | 05/30/2017 |          |
| Wood River 427m DS STH 70 (first crossing), 2014, Natural Community Validation                   | Wood River 427m DS STH 70 (first crossing), 2014, Natural Community Validation                   | Madeline Roberts | 05/31/2017 |          |
| Wood River 460m DS STH 70 Second Crossing, 2014, Natural Community Validation                    | Wood River 460m DS STH 70 Second Crossing, 2014, Natural Community Validation                    | Madeline Roberts | 05/30/2017 |          |
| Wood River North Fork N Fork Rd., 2014, Natural Community Validation                             | Wood River North Fork N Fork Rd., 2014, Natural Community Validation                             | Madeline Roberts | 05/30/2017 |          |

## Wisconsin Department of Natural Resources SWIMS Project Summary

| Title  | Description  | Author           | Published  | Comments |
|--|--|------------------|------------|----------|
| Wood River North Fork Upper CTH D crossing, 2014, Natural Community Validation       | Wood River North Fork Upper CTH D crossing, 2014, Natural Community Validation       | Madeline Roberts | 05/30/2017 |          |
| Wood River at HWY 70 US of Granatsburg, 2014, Natural Community Validation           | Wood River at HWY 70 US of Granatsburg, 2014, Natural Community Validation           | Madeline Roberts | 05/31/2017 |          |
| Wood River at W River Rd. 1 mi above St. Croix R, 2014, Natural Community Validation | Wood River at W River Rd. 1 mi above St. Croix R, 2014, Natural Community Validation | Madeline Roberts | 05/30/2017 |          |
| Wood River at Williams Rd near Grantsburg WI, 2014, Natural Community Validation     | Wood River 60m US Williams Rd., 2014, Natural Community Validation                   | Madeline Roberts | 05/30/2017 |          |

### Budget

**Budget Description:** Jan 2014 - June 2014 **Start Date:** **End Date:**

| Code         | Description                       | Quantity | Units | Unit Cost  | Total Cost        | Comments                     |
|--------------|-----------------------------------|----------|-------|------------|-------------------|------------------------------|
| FTE          | FTE Hours                         | 90       | Hours | \$0.00     | \$0.00            |                              |
| LTE SAL      | LTE Salary                        | 72       | Hours | \$13.00    | \$936.00          |                              |
| LTE FR       | LTE Fringe                        |          |       |            | \$231.19          |                              |
| LTE IND      | LTE Indirect                      |          |       |            | \$188.73          |                              |
| LTE TOT      | LTE Total Cost                    |          |       |            | \$1,355.93        |                              |
| SUPPLY       | Supplies                          | 8        |       | \$25.00    | \$200.00          | shipping                     |
| EQUIP        | Equipment                         | 1        |       | \$210.00   | \$210.00          | transparency tubes and misc. |
| MILEAGE      | Mileage                           | 2280     | Miles | \$0.53     | \$1,208.40        |                              |
| MEAL         | Meals                             | 14       | Meals | \$9.00     | \$126.00          |                              |
| LODGE        | Lodging                           |          |       |            | \$0.00            |                              |
| TRAVEL       | Travel Total                      |          |       |            | \$1,334.40        |                              |
| BUG          | Bug Contracts                     |          |       |            | \$0.00            |                              |
| OTHER        | Other Contracts                   | 1        |       | \$1,215.00 | \$1,215.00        | soil lab testing             |
| USGS         | USGS Costs                        |          |       |            | \$0.00            |                              |
| <b>TOTAL</b> | <b>Total Cost (excludes SLOH)</b> |          |       |            | <b>\$4,315.33</b> |                              |

| Test Code                    | Description | Test Group | # Planned | Unit Cost  | Total Cost |
|------------------------------|-------------|------------|-----------|------------|------------|
| <b>Total SLOH Lab Costs:</b> |             |            |           | \$0.00     |            |
| <b>Total Budget:</b>         |             |            |           | \$4,315.33 |            |

**Budget Description:** JUL 2014 - Dec 2014 **Start Date:** **End Date:**

| Code    | Description    | Quantity | Units | Unit Cost | Total Cost | Comments |
|---------|----------------|----------|-------|-----------|------------|----------|
| FTE     | FTE Hours      | 90       | Hours | \$0.00    | \$0.00     |          |
| LTE SAL | LTE Salary     | 72       | Hours | \$13.00   | \$936.00   |          |
| LTE FR  | LTE Fringe     |          |       |           | \$231.19   |          |
| LTE IND | LTE Indirect   |          |       |           | \$188.73   |          |
| LTE TOT | LTE Total Cost |          |       |           | \$1,355.93 |          |
| SUPPLY  | Supplies       | 8        |       | \$25.00   | \$200.00   | shipping |

## Wisconsin Department of Natural Resources SWIMS Project Summary

| Code         | Description                       | Quantity | Units | Unit Cost  | Total Cost        | Comments       |
|--------------|-----------------------------------|----------|-------|------------|-------------------|----------------|
| EQUIP        | Equipment                         |          |       |            | \$0.00            |                |
| MILEAGE      | Mileage                           | 2280     | Miles | \$0.53     | \$1,208.40        |                |
| MEAL         | Meals                             | 14       | Meals | \$9.00     | \$126.00          |                |
| LODGE        | Lodging                           |          |       |            | \$0.00            |                |
| TRAVEL       | Travel Total                      |          |       |            | \$1,334.40        |                |
| BUG          | Bug Contracts                     |          |       |            | \$0.00            |                |
| OTHER        | Other Contracts                   | 1        |       | \$1,215.00 | \$1,215.00        | soil lab tests |
| USGS         | USGS Costs                        |          |       |            | \$0.00            |                |
| <b>TOTAL</b> | <b>Total Cost (excludes SLOH)</b> |          |       |            | <b>\$4,105.33</b> |                |

| Test Code | Description | Test Group | # Planned | Unit Cost | Total Cost |
|-----------|-------------|------------|-----------|-----------|------------|
|-----------|-------------|------------|-----------|-----------|------------|

**Total SLOH Lab Costs:** \$0.00  
**Total Budget:** \$4,105.33

**Combined Budgets:** \$8,420.65  
**Combined SLOH:** \$0.00  
**Combined Total:** \$8,420.65

### Funding

| Organization | Source | Type | Amount | Start Date | End Date |
|--------------|--------|------|--------|------------|----------|
|--------------|--------|------|--------|------------|----------|