

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID:	NOR_06_CMP14-Year2
Name:	Crex Meadows Assessment TWA, Burnett County
Type:	Targeted Watershed Approach
Subtype:	Evaluation (TP SSC, Stressor, Bioassess)
Status:	COMPLETE
Start Date:	1/1/2014
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

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Name	Role	Status	Start Date	End Date	Organization	Comments
CUNNINGHAM, JOSEPH L	COORDINATOR	ACTIVE	1/1/2014	12/31/2014	Wisconsin DNR	
HAGEN, CHERIE L	SUPERVISOR	COMPLETE	12/23/2013	12/31/2014	Wisconsin DNR	
Helmuth, Lisa D	COORDINATOR	INACTIVE	11/23/2019	12/28/2022	Wisconsin DNR	
PEACHER, RACHEL D	COORDINATOR	ACTIVE	1/1/2014	12/31/2014	Wisconsin DNR	
Roesler, Craig P	PROJECT_LEAD	COMPLETE	1/1/2014	12/31/2014	Wisconsin DNR	
Udenby, FLORENCE A	COORDINATOR	COMPLETE	1/1/2014	12/31/2014	Wisconsin DNR	

Project Statuses

Date	Reported By	Status	Comments
12/16/2013	Craig Roesler	Proposed	
5/13/2014	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.
3/2/2016	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

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Action	Detailed Description	Start Date	End Date	Status
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.	1/1/2014	12/31/2014	IN_PROGRESS
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.	1/1/2014	12/31/2014	COMPLETE

Details: Parameter	Value/Amount	Units	Comments
Temperature			
Total Nitrogen			
Total Phosphorus			
Total Suspended Solids			

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	

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10042731	Lower L Dike along CTH F	
10042728	North Fork Flowage	
10042682	North Fork Flowage near outlet	
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	
10042683	Upper North Fork Flowage	
10042727	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

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1880600	1	Shallow Lake	Shallow Lake
1970400	1	Un Lake	Unnamed
1970500	1	Beaver 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
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

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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	1	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
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

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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 (Nicaheyne)	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

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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
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

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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
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

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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
2546700	1	Un Lake	Unnamed
2546800	1	Un Lake	Unnamed
2546900	1	Un Lake	Unnamed

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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

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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
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

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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
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

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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
2637600	1	Unnamed	Unnamed
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

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2644700	1	Upper Phantom Flowage	Upper Phantom Flowage
2644900	1	Dike 2 Flowage	Dike 2 Flowage
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 (Bloomberg)	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

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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
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	Black Brook Flowage	Unnamed
2655100	1	Ditch to Clam River	Unnamed
2655300	1	Clam Lake, Lower	Lower Clam Lake

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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
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

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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
2670300	4	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
2670400	6	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

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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
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

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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
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

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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
5003984	1	Unnamed Stream	Unnamed
5004007	1	Unnamed Stream	Unnamed

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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
5004457	1	Unnamed	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

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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
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

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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
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

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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

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5513118	1	Local Water	Unnamed
5513224	1	Local Water	Unnamed
5513243	1	Local Water	Unnamed
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

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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
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

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5583123	1	Local Water	Unnamed
5583185	1	Local Water	Unnamed
5583200	1	Kylingstad Flowage	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	5/10/2012	12/31/2014

Forms

Form Code	Form Name
CONTINUOUS	Continuous Data Upload
INORGANIC	Inorganic Lab - Field Data
SECCHI_TEMPDO_PLUS	Lake Monitoring - Secchi, Temp., D.O., pH, Conductivity
CBSM-TEST	Macroinvertebrate Field Data
NONWADEABLE_MACRO_FIELD	Non-wadeable Macroinvertebrate Field Data
WT-001-2010	Stream Baseflow Data
STREAM_MON	Stream Monitoring (Temp, DO, Trans, Flow)
WADEABLE_MACRO_FIELD	Wadeable Macroinvertebrate Field & Habitat Data

Methods

Method Code	Method 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

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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 500 SOIL SAMPLING	Soil Sampling
DNR-FPM-501.1	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
4/11/2014 13:00	COMPLETE	HD-3	10041942	Hay Creek 10m west of CTH F
4/11/2014 14:00	COMPLETE	NF-1	10041943	Unnamed stream 10m DS of Lundquist Rd.
4/11/2014 15:00	COMPLETE	WC-2	10037789	Whiskey Creek 110m DS CTH D
5/7/2014 13:00	COMPLETE	SPE-1	10042116	East spring at iron deposition area
5/7/2014 13:15	COMPLETE	SPW-2	10042117	West spring at iron deposition area
5/14/2014 9:00	COMPLETE	NF-1	10041943	Unnamed stream 10m DS of Lundquist Rd.
5/14/2014 10:00	COMPLETE	WH-2	10037789	Whiskey Creek 110m DS CTH D
5/14/2014 11:00	COMPLETE	HA-3	10041942	Hay Creek 10m west of CTH F

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5/14/2014 12:15	COMPLETE	SSP-4	10042154	Sandstone Spring at Norway Point
5/14/2014 13:00	COMPLETE	ISP-5	10042155	Iron Spring at Norway Point
5/14/2014 13:30	COMPLETE	BU-7	10042158	Buggert Creek at Buggert Lake Rd.
5/14/2014 14:30	COMPLETE	KY-6	10042157	Unnamed (Kylingstad) Creek at North Fork Dike Rd
5/31/2014 10:00	COMPLETE	NF-1	10041943	Unnamed stream 10m DS of Lundquist Rd.
5/31/2014 11:00	COMPLETE	WH-2	10037789	Whiskey Creek 110m DS CTH D
5/31/2014 11:45	COMPLETE	HA-3	10041942	Hay Creek 10m west of CTH F
6/1/2014 0:45	COMPLETE		10041942	Hay Creek 10m west of CTH F
6/1/2014 0:46	COMPLETE		10041943	Unnamed stream 10m DS of Lundquist Rd.
6/16/2014	COMPLETE	HA-4	10041942	Hay Creek 10m west of CTH F
6/16/2014 9:00	COMPLETE	KY-1	10042157	Unnamed (Kylingstad) Creek at North Fork Dike Rd
6/16/2014 10:00	COMPLETE	NF-2	10041943	Unnamed stream 10m DS of Lundquist Rd.
6/16/2014 11:00	COMPLETE	WH-3	10037789	Whiskey Creek 110m DS CTH D
6/26/2014 10:00	COMPLETE	HA-1	10041942	Hay Creek 10m west of CTH F
6/26/2014 10:30	COMPLETE	KY-6	10042157	Unnamed (Kylingstad) Creek at North Fork Dike Rd
6/26/2014 10:30	COMPLETE	WH-2	10037789	Whiskey Creek 110m DS CTH D
6/26/2014 11:00	COMPLETE	NF-3	10041943	Unnamed stream 10m DS of Lundquist Rd.
6/26/2014 13:45	COMPLETE	NFWD-4	10042343	West ditch to N. Fk. Creek at Lundquist Rd
6/26/2014 14:00	COMPLETE	NFED-5	10042342	East ditch to N. Fk. Creek at Lundquist Rd
7/11/2014 9:00	COMPLETE	WO-10	073029	Wood River at Hwy 70, East Crossing
7/11/2014 9:30	COMPLETE	NFW-11	073115	Wood River North Fork - Upper Cth D Xing
7/11/2014 10:00	COMPLETE	KY-12	10042157	Unnamed (Kylingstad) Creek at North Fork Dike Rd
7/11/2014 10:30	COMPLETE	NF-13	10041943	Unnamed stream 10m DS of Lundquist Rd.
7/11/2014 11:00	COMPLETE	HA-15	10041942	Hay Creek 10m west of CTH F
7/11/2014 11:00	COMPLETE	WH-14	10037789	Whiskey Creek 110m DS CTH D
7/11/2014 11:30	COMPLETE	EK-16	10042427	Ekdall Creek 5 m above mouth
7/15/2014 10:00	COMPLETE	UNN-1	10042443	Unnamed stream near Nordstrum Rd
7/15/2014 13:00	COMPLETE	UNB-2	10042444	Unnamed stream near Bang Rd
7/17/2014 12:10	COMPLETE	UND-6	10042446	Unnamed stream 37 m DS North Fork Dike Rd
7/25/2014	COMPLETE	NF-5	10041943	Unnamed stream 10m DS of Lundquist Rd.
7/25/2014	COMPLETE	WH-3	10037789	Whiskey Creek 110m DS CTH D
7/25/2014 10:00	COMPLETE	HAF-2	10041942	Hay Creek 10m west of CTH F
7/25/2014 13:00	COMPLETE	KY-6	10042157	Unnamed (Kylingstad) Creek at North Fork Dike Rd
7/25/2014 14:30	COMPLETE	SA-7	10042446	Unnamed stream 37 m DS North Fork Dike Rd
8/20/2014 10:00	COMPLETE	WO-1	073029	Wood River at Hwy 70, East Crossing

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8/20/2014 10:30	COMPLETE	NFW-2	073115	Wood River North Fork - Upper Cth D Xing
8/20/2014 11:00	COMPLETE	NFC-3	10041943	Unnamed stream 10m DS of Lundquist Rd.
8/20/2014 11:30	COMPLETE	SA-4	10042446	Unnamed stream 37 m DS North Fork Dike Rd
8/20/2014 13:00	COMPLETE	WH-5	10037789	Whiskey Creek 110m DS CTH D
8/20/2014 14:00	COMPLETE	HA-6	10041942	Hay Creek 10m west of CTH F
9/2/2014 10:00	COMPLETE	SA-1	10042446	Unnamed stream 37 m DS North Fork Dike Rd
9/2/2014 10:30	COMPLETE	NF-2	10041943	Unnamed stream 10m DS of Lundquist Rd.
9/2/2014 11:00	COMPLETE	WH-3	10037789	Whiskey Creek 110m DS CTH D
9/2/2014 13:00	COMPLETE	HA-4	10041942	Hay Creek 10m west of CTH F
9/15/2014 10:00	COMPLETE	NF-1	10041943	Unnamed stream 10m DS of Lundquist Rd.
9/15/2014 11:00	COMPLETE	WH-2	10037789	Whiskey Creek 110m DS CTH D
9/15/2014 11:45	COMPLETE	HA-3	10041942	Hay Creek 10m west of CTH F
9/18/2014 10:00	COMPLETE	HC-1	10042676	Hay Creek Flowage at outlet
9/18/2014 10:30	COMPLETE	LD-2	10042677	Lower L Dike
9/18/2014 11:00	COMPLETE	P3-3	10042678	Phantom Flowage
9/18/2014 11:30	COMPLETE	P1-4	10042679	Phantom Flowage near SE corner
9/18/2014 12:10	COMPLETE	RI-5	10042680	Rice Lake near center
9/18/2014 13:00	COMPLETE	SR-6	10042681	South Refuge Flowage near outlet
9/18/2014 13:30	COMPLETE	NF-7	10042682	North Fork Flowage near outlet
9/18/2014 14:00	COMPLETE	UN-8	10042683	Upper North Fork Flowage
9/23/2014 10:00	COMPLETE	HA-6	10042732	Hay Creek Flowage (outlet end)
9/23/2014 10:00	COMPLETE	LL-5	10042731	Lower L Dike along CTH F
9/23/2014 10:00	COMPLETE	NF-2	10042728	North Fork Flowage
9/23/2014 10:00	COMPLETE	P1-8	10042734	Phantom Flowage near east 1 tube outlet
9/23/2014 10:00	COMPLETE	P3-7	10042733	Phantom Flowage near 3 tube outlet
9/23/2014 10:00	COMPLETE	RI-4	10042730	Rice Lake
9/23/2014 10:00	COMPLETE	SR-3	10042729	South Refuge Flowage near Main Dyke Rd
9/23/2014 10:00	COMPLETE	UN-1	10042727	Upper North Fork Flowage
9/24/2014 10:00	COMPLETE	HA-1	10041942	Hay Creek 10m west of CTH F
9/24/2014 11:00	COMPLETE	WH-2	10037789	Whiskey Creek 110m DS CTH D
9/24/2014 11:30	COMPLETE	NF-3	10041943	Unnamed stream 10m DS of Lundquist Rd.
10/9/2014 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

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Wisconsin Department of Natural Resources SWIMS Project Summary

10/20/2014 13:30	COMPLETE	NF-3	10041943	Unnamed stream 10m DS of Lundquist Rd.
12/5/2014 9:00	COMPLETE	NC-1	10042428	Unnamed Tributary 155 m DS North Rd
12/5/2014 9:30	COMPLETE	NF-2	10041943	Unnamed stream 10m DS of Lundquist Rd.
12/5/2014 10:00	COMPLETE	WH-3	10037789	Whiskey Creek 110m DS CTH D
12/5/2014 10:30	COMPLETE	HA-4	10041942	Hay Creek 10m west of CTH F
12/5/2014 11:00	COMPLETE	IR-5	10042377	Iron Creek 124 m DS Sadlers Rd
12/5/2014 12:05	COMPLETE	NO-6	10042443	Unnamed stream near Nordstrum Rd
12/5/2014 12:30	COMPLETE	EK-7	10042427	Ekdall Creek 5 m above mouth
3/2/2015 10:00	COMPLETE	UNF-1	10042683	Upper North Fork Flowage
3/2/2015 11:00	COMPLETE	NF-2	10042682	North Fork Flowage near outlet
3/2/2015 12:10	COMPLETE	PF1T-4	10042679	Phantom Flowage near SE corner
3/2/2015 13:00	COMPLETE	PF3T-5	10042678	Phantom Flowage
3/2/2015 14:00	COMPLETE	RI-6	10042680	Rice Lake near center

Documents

Title	Description	Author	Published	Comments
Crex Meadows Fish Data, appendix 4		Craig Roesler	2/26/2016	
Crex Meadows Flowage Sediment Data, appendix 3		Craig Roesler	2/26/2016	
Crex Meadows Soils Data, appendix 1		Craig Roesler	2/26/2016	
Crex Meadows Water Quality Data, appendix 2		Craig Roesler	2/26/2016	
Crex Meadows Wildlife Area Water Quality Assessment, 2016		Craig Roesler, Rachel Peachler, Tim Parks	2/26/2016	
Crex Meadows Wildlife Area Water Quality Concerns		Craig Roesler	3/24/2014	
Ekdall Cr 5m above mouth, 2014, Natural Community Validation	Ekdall Cr 5m above mouth, 2014, Natural Community Validation	Madeline Roberts	5/30/2017	
Hay Creek 170m DS STH 70, 2014, Natural Community Validation	Hay Creek 170m DS STH 70, 2014, Natural Community Validation	Madeline Robert	5/30/2017	
Hay Creek 177m DS Benson Rd., 2014, Natural Community Validation	Hay Creek 177m DS Benson Rd., 2014, Natural Community Validation	Madeline Roberts	5/31/2017	
Hay Creek 20m US Borg Rd., 2014, Natural Community Validation	Hay Creek 20m US Borg Rd., 2014, Natural Community Validation	Madeline Roberts	5/30/2017	

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Iron Creek 124m DS sadlers Rd., 2014, Natural Community Validation	Iron Creek 124m DS sadlers Rd., 2014, Natural Community Validation	Madeline Roberts	5/30/2017	
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	5/24/2017	
NC.Ver_Stn_10042530_SSN_515076555_Report	NC.Ver_Stn_10042530_SSN_515076555_Report.pdf	helmuth	9/19/2019	
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	5/31/2017	
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	7/10/2017	
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	5/30/2017	
Unnamed Stream 10m DS of Lundquist Rd., 2014, Natural Community Validation	Unnamed Stream 10m DS of Lundquist Rd., 2014, Natural Community Validation	Madeline Roberts	7/10/2017	
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	7/10/2017	
Unnamed Stream Near Nordstrum Rd, 2014, Natural Community Validation	Unnamed Stream Near Nordstrum Rd, 2014, Natural Community Validation	Madeline Roberts	5/24/2017	
Unnamed Stream near Bang Rd., 2014, Natural Community Validation	Unnamed Stream near Bang Rd., 2014, Natural Community Validation	Madeline Roberts	5/30/2017	
Whiskey Creek 110m DS CTH D, 2014, Natural Community Verification	Whiskey Creek 110m DS CTH D, 2014, Natural Community Verification	Madeline Roberts	7/10/2017	
Whiskey Creek 192m DS Whiskey Creek Flowage, 2014, Natural Community Validation	Whiskey Creek 192m DS Whiskey Creek Flowage, 2014, Natural Community Validation	Madeline Roberts	5/30/2017	

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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	5/31/2017	
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	5/30/2017	
Wood River North Fork N Fork Rd., 2014, Natural Community Validation	Wood River North Fork N Fork Rd., 2014, Natural Community Validation	Madeline Roberts	5/30/2017	
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	5/30/2017	
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	5/31/2017	
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	5/30/2017	
Wood River at Williams Rd near Grantsburg WI, 2014, Natural Community Validation	Wood River 60m US Williams Rd., 2014, Natural Community Validation	Madeline Roberts	5/30/2017	

Budget

Wisconsin Department of Natural Resources
SWIMS Project Summary

Budget Description: Jan 2014 - June 2014			Start Date:	End Date:
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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	
TOTAL	Total Cost (excludes SLOH)				\$4,315.33	

Total WSLH Lab Costs: \$0.00
Total Budget: \$4,315.33

Wisconsin Department of Natural Resources
SWIMS Project Summary

Budget Description: JUL 2014 - Dec 2014			Start Date:	End Date:
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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				\$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	
TOTAL	Total Cost (excludes SLOH)				\$4,105.33	

Total WSLH Lab Costs: \$0.00
Total Budget: \$4,105.33

Combined Budgets: \$8,420.65
Combined WSLH: \$0.00
Combined Total: \$8,420.65

Funding					
Organization	Source	Type	Amount	Start Date	End Date