

# Wisconsin Department of Natural Resources SWIMS Project Summary

## General Project Information

<b>Project ID:</b>	North_TWA_7A_2013
<b>Name:</b>	Tyler Forks TWA 2013 (A) Kleist (Project 1)
<b>Type:</b>	Targeted Watershed Approach
<b>Subtype:</b>	Planning (WQ, Nine Key Element)
<b>Status:</b>	REPORT
<b>Start Date:</b>	7/1/2012
<b>End Date:</b>	7/1/2013
<b>Purpose:</b>	This project involves collection of biological information (fish and macroinvertebrates) and quantitative habitat and temperature in the Tyler Forks River Watershed and part of the Upper Bad River Watershed. Water chemistry samples will be collected on the Tyler Forks River and on single sites on Bull Gus Creek, Javorsky Creek, Devils Creek. This project involves cotinuing USGS gaging station on Tyler Forks River at Stricker Road. This work is conducted to provide background ambient condition data and to evaluate watershed and waterbody condition prior to possible land use change associated with permitted activities.
<b>Objective:</b>	This monitoring project of waters is designed to update waterbody assessment status information (i.e. future monitoring for 303(d) or ERW/ORW status), for identifying appropriate management recommendations and for updating waterbody and watershed narratives in WATERS, and finally for use in watershed planning. The project involves collecting background water quality information within the watershed and the adjacent watershed with a known iron ore deposits. The monitoring stations were determined after field reconnaissance.
<b>Comments:</b>	Jon Kleist
<b>Outcome:</b>	One outcome would be possible future monitoring for impaired waters 303(d) or protection work through ERW/ORW designations. The information can be used to make management recommendations, to update waterbody and watershed narratives in WATERS, and for use in watershed planning. A Watershed Plan was developed in 2013 based on data from this study. <a href="http://dnr.wi.gov/water/wsSWIMSDocument.ashx?documentSeqNo=127017557">DRAFT Tyler Forks (LS13) Watershed Plan</a>
<b>Study Design:</b>	This project involves collection of biological information (fish and macroinvertebrates) and quantitative habitat and temperature on fourteen (14) sites (to be identified) in the Tyler Forks River Watershed and part of the Upper Bad River Watershed. Up to six (6) more sites (for a total of 20 sites) may be added to the project depending on field conditions and site access. Temperature data was collected on an additional nine (9) sites. Additional temperature sites may be added depending on field conditions for a total of approximatley 30 sites. Four (4) water chemistry samples will be collected at 6 locations, three sites on the Tyler Forks River, and single sites on Bull Gus Creek, Javorsky Creek, Devils Creek. This project involves cotinuing USGS gaging station on Tyler Forks River at Stricker Road.
<b>QA Measures:</b>	Standard DNR and SLOH protocols will be followed.

## People

Name	Role	Status	Start Date	End Date	Organization	Comments
AARTILA, THOMAS P	PARTICIPANT	COMPLETE	6/1/2012	12/31/2013	Wisconsin DNR	
GRAHAM, JOSEPH R	PARTICIPANT	ACTIVE	6/1/2012	12/31/2013	Wisconsin DNR	
HAYES, JASON M	COORDINATOR	ACTIVE	11/28/2012	12/31/2013	Wisconsin DNR	
Helmuth, Lisa D	COORDINATOR	INACTIVE	11/23/2019	12/28/2022	Wisconsin DNR	
KLEIST, JON J	COORDINATOR	ACTIVE	6/1/2012	12/31/2013	Wisconsin DNR	
KLOSIEWSKI, James M	PARTICIPANT	ACTIVE	6/1/2012	12/31/2013	Wisconsin DNR	
LAVIGNE, CLIFFORD R	COORDINATOR	ACTIVE	11/28/2012	12/31/2013	Wisconsin DNR	
LEANNA, CHAD G	PARTICIPANT	ACTIVE	11/27/2012	12/31/2013	Wisconsin DNR	
NELSON, AARON M	PARTICIPANT	ACTIVE	6/1/2012	1/1/2099	Wisconsin DNR	

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Roesler, Craig P	PARTICIPANT	COMPLETE	6/1/2012	12/31/2013	Wisconsin DNR	
WENDLER, JEANETTE C	COORDINATOR	ACTIVE	7/1/2012	12/31/2014	Wisconsin DNR	
YANG, HNUE	PARTICIPANT	COMPLETE	6/1/2012	12/31/2013	Wisconsin DNR	

### Project Statuses

Date	Reported By	Status	Comments
3/15/2012	MOLLI MACDONALD	Proposed	
12/6/2012	CLIFFORD LAVIGNE	Progress: 50-75% Complete	All data has been collected. Jason and I care about to start entering data.
12/20/2012	JON KLEIST	Progress: 50-75% Complete	The planned biological field work for project was completed. The planned fish surveys have been completed, 20 bug samples were collected as proposed. 10 quantitative habitat surveys were completed. Temp sensors were deployed and retrieved as proposed. So far we have completed 2 runs of trace metals sampling (at 6 sites) as well as the other nutrients/chems. The plan was to do 4 runs, which was budgeted. It did not make sense to try to do 4 sample runs in half a year. Trace Hg was also funded, which I did not catch until after we did the first trace metal sample collection. As a result we only will have completed 1 trace Hg sample run for 6 sites this year. We can pick up an extra trace Hg sample run 2013. A couple of temp sensors failed to collect data, these can be re-deployed in 2013. There are a couple of streams that were identified that could/should be sampled in 2013 if possible.
9/20/2013	JON KLEIST	Progress: 75-100% Complete	The field work portion of this project has been completed and or carried over into Tyler Forks Watershed Project -continued. The final water chemistry samples associated with this project were collected in May and June of 2013. A preliminary report summarizing this project and the continuation of this project should be completed by early 2014, with the data that is available.
5/14/2014	JON KLEIST	Progress: 75-100% Complete	The field work portion of this project was continued into Tyler Forks watershed project- continued and now continued into Tyler Forks and surrounding area watershed project for 2014. Additional water chemistry, bug and fish surveys will be completed in 2014. The bug samples for this project have been reported. The data generated from this project was used to review a pre-application for iron mining in the area. A final report will be completed as well updates for watershed planning after the field season of 2014.
12/11/2014	JON KLEIST	Progress: 75-100% Complete	Additional field work continued into 2014 with a new watershed project (Tyler Forks and surrounding area watershed project). That project included sites in adjacent HUC 10s (Upper Bad and Potato River watersheds) The four macroinvertebrate samples for this project have been analysed and entered into SWIMS. The final report for this project will likely be completed with the field data from 2014 in a larger report. (note this is the same summary as NOR_20_CMP13B) This project will be completed with the report prepared for 2014 Tyler Forks and surrounding area watershed project.

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### Project Status Detail

**Answer Set: DEFAULT**

Question	Answer
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- |  |  |
|--|--|
| 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 Date	End Date	Status
Water Quality Planning	We propose to collect biological information (fish/bugs) and quantitative habitat and temperature on 14 TBD sites in the Tyler Forks River Watershed and part of the Upper Bad River Watershed. Up to 6 more TBD (for a total of approximately 20) sites may be added to the project depending on field conditions and site access .	7/1/2012	12/31/2012	COMPLETE
Monitor Targeted Watershed Area (TWA)	We propose to collect biological information (fish/bugs) and quantitative habitat and temperature on 14 TBD sites in the Tyler Forks River Watershed and part of the Upper Bad River Watershed. Up to 6 more TBD (for a total of approximately 20) sites may be added to the project depending on field conditions and site access	7/1/2012	12/31/2012	COMPLETE

### Monitoring Stations

Station ID	Name	Comments
10032647	Alder Creek below Cemetery Creek mouth	
10041384	Apple Creek US confluence with Potato River	
10041625	Apple Creek US of O'Brien Lake Rd	
10029119	Augustine Creek - 20m upstream Augustine Creek Rd.	
10000557	Bad River - 05 Mouth	
023015	Bad River - Copper Falls State Park Stp-	
023129	Bad River - East Taylor Ave. Bridge On Ne Side Of Mellen	
023022	Bad River - Louisiana Pac Seaway Mellen 001	
023023	Bad River - Louisiana Pac Seaway Mellen 007	
023018	Bad River - Mellen Stp	

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023041	Bad River - Mellen Well #1 Grdwater Intake	
10029062	Bad River - Upstream of Cayuga Rd	
10040676	Bad River 15m US of Devils Creek	
10041635	Bad River At Elm Hoist Rd BR	
10037307	Bad River at Caroline Lake outflow	
10033485	Bad River at Gilman Park	
10033484	Bad River at Morse	
023032	Bad River at Sth 13	
023033	Bad River at Sth 169	
023001	Bad River at USH 2	
10022079	Bad River- Hwy 169 Mellen	
10022078	Bad River--Hwy 13 Ashland Co.	
10009783	Ballou Creek - Station1	
10041580	Ballou Creek 10 M upstream of confluence of unnamed tributary	
10041587	Ballou Creek 160 meters downstream of confluence with unnamed tributary	
10034374	Ballou Creek at Red House Rd	
10034373	Ballou Creek upstream Devils Confluence	
10041479	Barr Creek	
10016894	Brush Creek - Downstream Of Fr 354 Culvert.Bc2	
10010679	Brush Creek 1	
10037096	Bull Gus Creek 100m DS of FR 703	
10020879	Bull Gus Creek-16 Yd. Downstream Of Unnamed Gravel Road	
10041616	CITY CREEK - South LAKE DRIVE CROSSING	
10012884	Camp Four Creek at Fisher Rd	
10039075	Chase Creek - DS of snowmobile bridge - T46NR1WSec23	
10032786	Chase Creek at Trail south of Freburg Road	
10039073	City Creek - North Lake Drive Crossing - Upstream	
10031997	City Creek - west of Lake Dr	
10031998	City Creek above Jolkenen Rd	
10040694	Devils Creek 185m DS STH 77	
10041632	Devils Creek Headwaters - Station 1	
10008059	Devils Creek Station #1	
10008060	Devils Creek Station #2	
10037097	Devils Creek at Hwy 77	

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10037308	Devils Creek at Oppergard Rd	
10034375	Devils Creek at Upstream Ballou Confluence	
10034565	Dunn Creek	
10034563	Erickson Creek - Posvic property	
10034370	Erickson Creek at Casey Sag Rd	
10034566	Feldcher Creek - Burns Rd	
10039076	Frieberg Creek - Downstream of Frieberg Rd.	
10032785	Frieberg Creek at Trail south of Clement Road	
10029311	GEHRMAN CREEK 10M UPSTREAM OF HWY 169	
10039136	Gehrman Creek at Popko Rd	
10041422	Javorsky Creek	
10034559	Javorsky Creek - Hwy 77	
10034371	Javorsky Creek at Hwy 77	
10041588	Javorsky Creek upstream of ATV trail culvert	
10022051	Krause Creek - Ashland County - 100 Yds DS Gulf Course Rd	
10041403	Lawrence Creek at Ruks Rd Crossing	
10030051	Laymans Creek - Upstream of Camp 7 Road	
10029349	MOOSE EAR CREEK 10 M UPSTREAM OF CTH W CULVERT	
10031000	Magee Creek - Along Camp E. Rd	
10031001	Magee Creek - Bunte Shack Rd	
10029360	Magee Creek - Downstream side of Shirley Lake Rd.	
10011200	Magee Creek 1-Mackenberg Rd	
10043140	Magee Creek SE 1/4 of Sec. 15 T43N R1W	
10017292	Magee Creek-3 Yds. Downstream Of Private Atv Bridge (Along Camp E Rd.)	
10043150	Mineral Creek near Minnie Creek Confluence	
10022072	Minnie Creek - Camp K Road #2	
10022073	Minnie Creek at Morse Line Rd	
10022071	Minnie Creek-Camp K Road	
10021805	Minnow Creek - Downstream Of Long Lake Rd	
10034567	Montreal Creek - confluence with Devil's Creek	
10022081	Montreal Creek- 3 Rivers Ball Park -Devil'S Creek	
10022080	Montreal Creek-County Line Road	
10030463	Mud Creek (Appr. 38m upstream from Caroline Lake Rd)	
10041391	Mud Creek (T46 R1E Sec 7)	
10029359	Mud Creek - downstream side of Caroline Lake Rd	

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10039681	Mud Creek 5m US of Confluence unnamed tributary	
10031003	Norman Creek - County Forest 701 Rd.	
10032778	North Branch Lawrence Creek at State Highway 122	
10032780	North Branch Lawrence River Creek at Trail west of State Highway 122	
10034376	Opergard Creek at Off Revai Rd	
10029292	Potato River 10 M upstream of Potato River Rd	
10039997	Potato River 10m US of Apple Cr (FR 700) Rd	
10039996	Potato River 200m US of STH 77	
10032782	Potato River Unnamed Trib at Island Lake Road	
263032	Potato River at Hwy 169 Nr Gurney	
10041397	Potato River at Snake Track Rd Crossing (T45N R1E S22)	
10032784	Potato River at State Highway 77	
10032781	Potato River at Trail Crossing	
263031	Potato River at Upson	
10034378	Potato River at Upson Park	
10043143	Potato River near Vaughn Creek Confluence	
10041398	Potato River off Island Lake Rd Crossing	
10041394	Potato River off Upson Lake Rd	
10041400	Potato River off of Nick Kangas Rd	
10041399	Potato River off of Ricca Rd (T45N R1E S12)	
10020725	Potato River-1\4 Mile North Of Highway 77	
10012914	Rouse Creek	
10015490	Rouse Creek A1	
10015491	Rouse Creek A2	
10038722	Scott Taylor Creek 10 m US of Confluence with Unnamed Stream	
10013020	Scott Taylor S of STH 169	
10012992	Scott-Taylor Fork Creek	
10013019	Scott-Taylor N. of Sth 169	
10012912	Shine Creek	
10043139	Shine Creek - Marathon Rd south to Shine Lake	
10043138	Shine Creek DS from dirt road (NW 1/4 of NE 1/4 of Sec. 33 T44N R1E)	
10029740	Shine creek-old bridge	
10039971	Sixteen Creek 5m US STH 77	
10012883	Spring Creek - (Camp N Rd)	

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10029738	Sullivan creek-sullivan grade crossing	
10030999	Trib. to Maggee Creek - County Forest 709 Rd.	
10015529	Tributary To Unnamed Creek A1	
10022075	Trout Brook-Spring Brook Road	
10041615	Turntable Creek Downstream of Gravel Pit Road	
10041395	Turntable Creek off of Snake Track Rd (T45N R1E S34)	
10036597	Tyler Fks - Area of Open Water	
10034350	Tyler Forks - Caroline Lake Road	
10034351	Tyler Forks - Moore Park Rd	
10034352	Tyler Forks - Vogues Road	
10038723	Tyler Forks 2m US Shirley Lake Road	
10012906	Tyler Forks at Hwy 77	
10034446	Tyler Forks at Stricker Rd	
10030684	Tyler Forks at footbridge above Brownstone Falls in Copper Falls S.P.	
10012907	Tyler Forks at2 (Downstream Of O'Brien Lake)	
10032004	Tyler Forks below State Hwy 169	
10032005	Tyler Forks below Will Rd	
10043146	UNNAMED SINGLE-LINE STREAM T45N-R2W-S34 - PDX: GULLY CREEK	
10041393	UNNAMED TRIB OF POTATO RIVER OFF ISLAND LAKE RD (T45N R1E S 23-34)	
10041392	UNNAMED TRIB TO VAUGHN CREEK - CURRY RD (T46N R1W S10 NW1/4)	
10038719	Unnamed (Gold Mine) Creek 3m US gravel road	
10035469	Unnamed - Area of Open Water	
10013012	Unnamed Creek	
10012943	Unnamed Creek (at Caroline Lk Rd)	
10015532	Unnamed Creek A1	
10015539	Unnamed Creek A2	
10012882	Unnamed Stream - (Shirley Lake Rd)	
10041564	Unnamed Trib (2930800) to Ballou Creek	
10041579	Unnamed Trib (5002672) to Devils Creek	
10041530	Unnamed Trib to City Creek	
10039074	Unnamed Trib to City Creek - at North Lake Drive Crossing	
10039071	Unnamed Trib to Mud Creek 105 M DS logging road	
10039970	Unnamed Trib to Mud Creek 10m US Caroline Lake Road	

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10041396	Unnamed Trib to Potato River off Upson Lake Rd (T45N R1E S7)	
10041401	Unnamed Trib to Potato River off of Bridge Crossing on Co Forest Rd (T46N R1W S21 NE1/4 of NE1/4)	
10041408	Unnamed Tributary (2926600) to Tyler Forks 340 m DS of old beaver dam/meadow	
10038724	Unnamed Tributary (2926600) to Tyler Forks 50 m DS of old beaver dam/meadow	
10041522	Unnamed Tributary (2930900) to Ballou Cr 10m upstream of confluence with Ballou Creek	
10041523	Unnamed Tributary (2930900) to Ballou Cr 115m downstream of private bridge	
10041409	Unnamed Tributary (2930900) to Ballou Cr 200m DS bridge	
10038721	Unnamed Tributary to Scott Taylor Cr 10 m US of confluence	
10038720	Unnamed Tributary to Scott Taylor Creek 160m DS STH 169	
10037309	Unnamed Tyler Forks Trib at FR 703	
10037786	Unnamed stream 120m DS of Bunte Shack Rd.	
10034372	Unnamed trib to Rouse Cr at Casey Sag Rd	
10041591	Unnamed tributary 50m upstream of confluence with Unnamed tributary to Ballou Creek.	
10041589	Unnamed tributary to Devils Creek	
10041592	Unnamed tributary to Unnamed tributary to Ballou Creek 100m downstream of road culvert.	
10029521	VAUGHN CREEK CLEMENT RD - UP and DOWNSTREAM	
10029522	VAUGHN CREEK IMMEDIATELY DOWNSTREAM OF WYLAND RD	
10029520	VAUGHN CREEK at CURRY RD - UPSTREAM	
10032648	Vaughn Creek at Hwy. 122 Saxon	
10033483	Vaughn Creek at Lower Rd	
10038718	Vogue Creek 20m US Vogue Creek Road	
10020738	Vogue Creek-30 Yd. Downstream Of Sullivan Fire Lane	
10012879	Voque Creek (Vogues Rd)	
10012981	Voque Creek - (Upstream Of Little Lake)	
10029741	shine creek--culvert	
10029742	shine creek-downstream of road crossing	

### Assessment Units

WBIC	Segment	Local Name	Official Name
2089600	4	Moose Ear Creek	Moose Ear Creek



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2408700	1	Magee Creek	Magee Creek
2408700	2	Magee Creek	Magee Creek
2409000	1	Local Water	Unnamed
2409200	1	Unnamed Stream	Unnamed
2410600	2	Augustine Creek	Augustine Creek
2891900	2	Bad River	Bad River
2891900	3	Bad River	Bad River
2891900	4	Bad River	Bad River
2891900	5	Bad River	Bad River
2891900	6	Bad River	Bad River
2906200	1	Potato River	Potato River
2906200	3	Potato River	Potato River
2906300	3	Vaughn Creek	Vaughn Creek
2906500	1	Unnamed Stream	Unnamed
2907200	1	Barr Creek	Barr Creek
2907600	1	Freiberg Creek	Frieberg Creek
2907700	1	Mud Creek	Mud Creek
2907900	1	Chase Creek	Chases Creek
2908200	1	Sullivan Creek	Sullivan Creek
2908600	1	Unnamed (Tributary to Potato River)	Unnamed
2908700	2	Alder Creek	Alder Creek
2908850	1	Sixteen Creek	Sixteen Creek
2910000	1	Apple Creek	Apple Creek
2910400	1	Norman Creek	Norman Creek
2911300	1	Turntable Creek	Turntable Creek
2911300	2	Turntable Creek	Turntable Creek
2911600	1	Unnamed Stream	Unnamed
2913900	2	Trout Brook	Trout Brook
2923100	1	Tyler Forks	Tyler Fks
2923100	3	Tyler Forks	Tyler Fks
2923100	4	Tyler Forks	Tyler Fks
2923100	5	Tyler Forks	Tyler Fks
2923300	1	Scott-Taylor Creek	Scott-Taylor Creek
2923400	1	Unnamed Trib to Scott Taylor Cr	Unnamed
2923400	2	Unnamed Stream	Unnamed

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2923500	1	Gehrman Creek	Gehrman Creek
2923600	1	Camp Four Creek	Camp Four Creek
2923800	1	Feldcher Creek	Feldcher Creek
2924100	1	Vogue Creek	Vogue Creek
2924300	1	Unnamed Stream	Unnamed
2924600	1	Javorsky Creek	Javorsky Creek
2924700	1	Dunn Creek	Dunn Creek
2924800	1	Erickson Creek	Erickson Creek
2925000	1	Rouse Creek	Rouse Creek
2925100	1	Unnamed Stream	Unnamed
2925800	1	Unnamed Stream	Unnamed
2926000	1	Mud Creek	Mud Creek
2926200	1	Unnamed Stream	Unnamed
2926600	1	Unnamed Stream	Unnamed
2926700	1	Bull Gus Creek	Bull Gus Creek
2927300	1	Spring Creek	Spring Creek
2927400	1	Unnamed Stream	Unnamed
2927600	1	Shine Creek	Shine Creek
2927600	2	Shine Creek	Shine Creek
2929000	1	Krause Creek	Krause Creek
2929300	1	Devils Creek	Devils Creek
2929400	1	Montreal Creek	Montreal Creek
2929400	2	Montreal Creek	Montreal Creek
2929600	1	Unnamed Stream	Unnamed
2929700	1	Opergard Creek (Gully Creek)	Opergard Creek
2930100	1	City Creek	City Creek
2930200	1	Unnamed (Tributary to City Creek)	Unnamed
2930700	1	Ballou Creek	Ballou Creek
2930700	2	Ballou Creek	Ballou Creek
2930800	1	Unnamed Trib to Ballou Cr.	Unnamed
2930900	1	Unnamed Tributary to Ballou Creek	Unnamed
2933600	1	Brush Creek	Brush Creek
2934600	1	Minnow Creek	Minnow Creek
2936700	1	Unnamed Trib (Dry Creek) to the Bad River	Unnamed
2937100	1	Minnie Creek	Minnie Creek

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2937400	1	Mineral Creek	Mineral Creek
2948000	1	Laymans Creek	Laymans Creek
2948000	2	Laymans Creek	Laymans Creek
3000151	1	Coil Creek	Unnamed
3000519	1	Unnamed Trib to Chase Creek	Unnamed
3000520	1	Unnamed Trib. to Unnamed Creek	Unnamed
4000019	1	Wolf Creek (T44-R1W-S16-9a)	Unnamed
5002492	1	Unnamed Stream	Unnamed
5002557	1	Unnamed Stream	Unnamed
5002672	1	Unnamed tributery to Devils Creek	Unnamed
5002727	1	Unnamed Stream	Unnamed
5002767	1	Unnamed (Tributary to City Creek)	Unnamed
5503497	1	Local Water	Unnamed
5503999	1	Local Water	Unnamed

Lab Account Codes

Account Code	Description	Start Date	End Date
WT159	TYLER FORKS ASSESSMENT	5/10/2012	6/30/2013

Forms

Form Code	Form Name
CONTINUOUS	Continuous Data Upload
INORGANIC	Inorganic Lab - Field Data

Methods

Method Code	Method Description
FISH SURVEY BASELINE PROTOCOLS	Fish Survey Baseline Protocols 2004
DNR-FPM-SONDES2006	Multi-Parameter Continuous Meter (Sondes) Guidelines 2006
MULTIPLE METHODS	Multiple Methods 1960
DNR-FPM-2501	Temperature Thermometric Meter Data 1995
GRAB SAMPLE	Water Grab Sample Guidelines and Procedures 2005

Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
5/29/2012	COMPLETE	TIDBIT-10029119	10029119	Augustine Creek - 20m upstream Augustine Creek Rd.
5/29/2012	COMPLETE	TIDBIT-10037096	10037096	Bull Gus Creek 100m DS of FR 703
5/29/2012	COMPLETE	TIDBIT-10038723	10038723	Tyler Forks 2m US Shirley Lake Road

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5/29/2012	COMPLETE	TIDBIT-10039681	10039681	Mud Creek 5m US of Confluence unnamed tributary
5/30/2012	COMPLETE	TIDBIT-10012884	10012884	Camp Four Creek at Fisher Rd
5/30/2012	COMPLETE	TIDBIT-10012906	10012906	Tyler Forks at Hwy 77
5/30/2012	COMPLETE	TIDBIT-10022080	10022080	Montreal Creek-County Line Road
5/30/2012	COMPLETE	TIDBIT-10029311	10029311	GEHRMAN CREEK 10M UPSTREAM OF HWY 169
5/30/2012	COMPLETE	TIDBIT-10034566	10034566	Feldcher Creek - Burns Rd
5/30/2012	COMPLETE	TIDBIT-10038718	10038718	Vogue Creek 20m US Vogue Creek Road
5/30/2012	COMPLETE	TIDBIT-10038719	10038719	Unnamed (Gold Mine) Creek 3m US gravel road
5/31/2012	COMPLETE	TIDBIT-10029349	10029349	MOOSE EAR CREEK 10 M UPSTREAM OF CTH W CULVERT
6/1/2012	COMPLETE	TIDBIT-10038720	10038720	Unnamed Tributary to Scott Taylor Creek 160m DS STH 169
6/1/2012	COMPLETE	TIDBIT-10038722	10038722	Scott Taylor Creek 10 m US of Confluence with Unnamed Stream
6/1/2012	COMPLETE	TIDBIT-10038724	10038724	Unnamed Tributary (2926600) to Tyler Forks 50 m DS of old beaver dam/meadow
8/23/2012 11:45	COMPLETE	319	10034373	Ballou Creek upstream Devils Confluence
8/23/2012 11:45	COMPLETE	BU1	10034373	Ballou Creek upstream Devils Confluence
8/23/2012 11:54	COMPLETE	387	10034375	Devils Creek at Upstream Ballou Confluence
8/23/2012 11:54	COMPLETE	DV1	10034375	Devils Creek at Upstream Ballou Confluence
8/23/2012 13:32	COMPLETE	288	10037096	Bull Gus Creek 100m DS of FR 703
8/23/2012 13:32	COMPLETE	BG1	10037096	Bull Gus Creek 100m DS of FR 703
8/23/2012 14:00	COMPLETE	307	10034350	Tyler Forks - Caroline Lake Road
8/23/2012 14:00	COMPLETE	TF1	10034350	Tyler Forks - Caroline Lake Road
8/23/2012 14:35	COMPLETE	MI-038	10012906	Tyler Forks at Hwy 77
8/23/2012 14:35	COMPLETE	TF2	10012906	Tyler Forks at Hwy 77
8/23/2012 15:00	COMPLETE	JU1	10034371	Javorsky Creek at Hwy 77
8/23/2012 15:00	COMPLETE	TM-044	10034371	Javorsky Creek at Hwy 77
9/10/2012 10:00	COMPLETE	LA-1	10030051	Laymans Creek - Upstream of Camp 7 Road
10/17/2012	COMPLETE	20121017-02-41	10034375	Devils Creek at Upstream Ballou Confluence
10/17/2012	COMPLETE	20121017-02-45	10034373	Ballou Creek upstream Devils Confluence
10/17/2012	COMPLETE		10038722	Scott Taylor Creek 10 m US of Confluence with Unnamed Stream
10/17/2012	COMPLETE		10038724	Unnamed Tributary (2926600) to Tyler Forks 50 m DS of old beaver dam/meadow
10/18/2012	COMPLETE	20121018-02-40	10022080	Montreal Creek-County Line Road
10/18/2012	COMPLETE	20121018-02-42	10034446	Tyler Forks at Stricker Rd
10/18/2012	COMPLETE	20121018-02-43	10012884	Camp Four Creek at Fisher Rd
10/18/2012	COMPLETE	20121018-26-44	10034371	Javorsky Creek at Hwy 77
10/23/2012 13:30	COMPLETE	TF-1	10034350	Tyler Forks - Caroline Lake Road

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10/23/2012 13:30	COMPLETE	TF-1	10034350	Tyler Forks - Caroline Lake Road
10/23/2012 13:30	COMPLETE		10034350	Tyler Forks - Caroline Lake Road
10/23/2012 14:00	COMPLETE	BG1	10037096	Bull Gus Creek 100m DS of FR 703
10/23/2012 14:00	COMPLETE	TM-016	10037096	Bull Gus Creek 100m DS of FR 703
10/23/2012 14:30	COMPLETE	BA1	10034373	Ballou Creek upstream Devils Confluence
10/23/2012 14:30	COMPLETE	MI162	10034373	Ballou Creek upstream Devils Confluence
10/23/2012 14:45	COMPLETE	DV1	10034375	Devils Creek at Upstream Ballou Confluence
10/23/2012 14:45	COMPLETE	TM029	10034375	Devils Creek at Upstream Ballou Confluence
10/23/2012 15:00	COMPLETE	272	10034371	Javorsky Creek at Hwy 77
10/23/2012 15:00	COMPLETE	JV-2	10034371	Javorsky Creek at Hwy 77
10/23/2012 15:15	COMPLETE	TF-2	10012906	Tyler Forks at Hwy 77
10/23/2012 15:15	COMPLETE	TF2	10012906	Tyler Forks at Hwy 77
10/23/2012 15:15	COMPLETE		10012906	Tyler Forks at Hwy 77
10/24/2012	COMPLETE	20121024-26-01	10038723	Tyler Forks 2m US Shirley Lake Road
10/24/2012	COMPLETE	20121024-26-02	10034350	Tyler Forks - Caroline Lake Road
10/24/2012	COMPLETE	20121024-26-03	10037096	Bull Gus Creek 100m DS of FR 703
10/29/2012	COMPLETE	20121029-02-56	10038720	Unnamed Tributary to Scott Taylor Creek 160m DS STH 169
10/29/2012	COMPLETE	20121029-26-54	10038718	Vogue Creek 20m US Vogue Creek Road
10/29/2012	COMPLETE	20121029-26-57	10037309	Unnamed Tyler Forks Trib at FR 703
10/29/2012	COMPLETE	20121108-26-53	10034566	Feldcher Creek - Burns Rd
10/29/2012	COMPLETE		10029311	GEHRMAN CREEK 10M UPSTREAM OF HWY 169
11/7/2012 13:10	COMPLETE	JV-2	10034371	Javorsky Creek at Hwy 77
11/7/2012 13:10	COMPLETE	RAG-307	10034371	Javorsky Creek at Hwy 77
11/7/2012 14:10	COMPLETE	BG1	10037096	Bull Gus Creek 100m DS of FR 703
11/7/2012 14:10	COMPLETE	HG-023	10037096	Bull Gus Creek 100m DS of FR 703
11/7/2012 14:40	COMPLETE	BA1	10034373	Ballou Creek upstream Devils Confluence
11/7/2012 14:40	COMPLETE	CC-127	10034373	Ballou Creek upstream Devils Confluence
11/7/2012 14:50	COMPLETE	DV1	10034375	Devils Creek at Upstream Ballou Confluence
11/7/2012 14:50	COMPLETE	FLAM-008	10034375	Devils Creek at Upstream Ballou Confluence
11/8/2012	COMPLETE	20121108-26-50	10038719	Unnamed (Gold Mine) Creek 3m US gravel road
11/8/2012	COMPLETE	20121108-26-51	10034370	Erickson Creek at Casey Sag Rd
11/8/2012	COMPLETE	20121108-26-52	10039071	Unnamed Trib to Mud Creek 105 M DS logging road
11/29/2012	COMPLETE	20121129-26-46	10034351	Tyler Forks - Moore Park Rd
5/13/2013 12:30	COMPLETE	BA-1	10034373	Ballou Creek upstream Devils Confluence
5/13/2013 12:30	COMPLETE	BA-1	10034373	Ballou Creek upstream Devils Confluence

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5/13/2013 12:40	COMPLETE	DV-2	10034375	Devils Creek at Upstream Ballou Confluence
5/13/2013 12:40	COMPLETE	DV-2	10034375	Devils Creek at Upstream Ballou Confluence
5/13/2013 13:30	COMPLETE	BG-3	10037096	Bull Gus Creek 100m DS of FR 703
5/13/2013 13:40	COMPLETE	BG-3	10037096	Bull Gus Creek 100m DS of FR 703
5/13/2013 16:15	COMPLETE	JV-7	10034371	Javorsky Creek at Hwy 77
5/13/2013 16:15	COMPLETE	JV-7	10034371	Javorsky Creek at Hwy 77
5/14/2013 12:00	COMPLETE	TF-8	10034350	Tyler Forks - Caroline Lake Road
5/14/2013 12:00	COMPLETE	TF-8	10034350	Tyler Forks - Caroline Lake Road
5/14/2013 13:00	COMPLETE	TF-11	10012906	Tyler Forks at Hwy 77
5/14/2013 15:00	COMPLETE	TF-11	10012906	Tyler Forks at Hwy 77
5/29/2013	COMPLETE		10041408	Unnamed Tributary (2926600) to Tyler Forks 340 m DS of old beaver dam/meadow
5/29/2013	COMPLETE		10031003	Norman Creek - County Forest 701 Rd.
5/29/2013	COMPLETE		10039971	Sixteen Creek 5m US STH 77
5/29/2013	COMPLETE		10039996	Potato River 200m US of STH 77
5/29/2013	COMPLETE		10039970	Unnamed Trib to Mud Creek 10m US Caroilne Lake Road
5/31/2013	COMPLETE		10034350	Tyler Forks - Caroline Lake Road
5/31/2013	COMPLETE		10041409	Unnamed Tributary (2930900) to Ballou Cr 200m DS bridge
6/24/2013 11:22	COMPLETE	BA-1	10034373	Ballou Creek upstream Devils Confluence
6/24/2013 11:40	COMPLETE	DV-2	10034375	Devils Creek at Upstream Ballou Confluence
6/24/2013 12:33	COMPLETE	BG-3	10037096	Bull Gus Creek 100m DS of FR 703
6/24/2013 15:00	COMPLETE	JV-7	10034371	Javorsky Creek at Hwy 77
6/25/2013 12:00	COMPLETE	TF-10	10034350	Tyler Forks - Caroline Lake Road
6/25/2013 12:42	COMPLETE	TF-11	10012906	Tyler Forks at Hwy 77
6/26/2013 12:21	COMPLETE	BA-1	10034373	Ballou Creek upstream Devils Confluence
6/26/2013 12:40	COMPLETE	BG-3	10037096	Bull Gus Creek 100m DS of FR 703
6/26/2013 12:40	COMPLETE	DV-2	10034375	Devils Creek at Upstream Ballou Confluence
6/26/2013 12:40	COMPLETE	JV-7	10034371	Javorsky Creek at Hwy 77
6/26/2013 12:40	COMPLETE	TF-10	10034350	Tyler Forks - Caroline Lake Road
6/26/2013 12:40	COMPLETE	TF-11	10012906	Tyler Forks at Hwy 77

### Documents

Title	Description	Author	Published	Comments
Augustine Creek - 20m upstream Augustine Creek Rd.		Kleist, Jon	11/21/2013	

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Average Transparency (Instantaneous) at Bull Gus Creek 100m DS of FR 703, 10037096		Kleist, Jon	11/21/2013	
Ballou Creek upstream Devils Confluence, 10034373		Kleist, Jon	11/21/2013	
Bull Gus Creek 100m DS of FR 703		Kleist, Jon	11/21/2013	
Camp Four Creek at Fisher Rd		Kleist, Jon	11/21/2013	
Chlorophyll a Lakes Assessment Report - Data 2003 to 2012	Chlorophyll a Lakes Assessment Report - Data 2003 to 2012	Kleist, Jon	11/21/2013	
Devils Creek at Upstream Ballou Confluence, 10034375		Kleist, Jon	11/21/2013	
Dissolved Oxygen, Percent Saturation (Instantaneous) at Bull Gus Creek 100m DS of FR 703, 10037096		Kleist, Jon	11/21/2013	
Feldcher Creek - Burns Rd		Kleist, Jon	11/21/2013	
GEHRMAN CREEK 10M UPSTREAM OF HWY 169		Kleist, Jon	11/21/2013	
Javorsky Creek at Hwy 77, 10034371		Kleist, Jon	11/21/2013	
LS14 WATERSHED MAP		Kleist, Jon	11/21/2013	
MOOSE EAR CREEK 10 M UPSTREAM OF CTH W CULVERT		Kleist, Jon	11/21/2013	
Montreal Creek-County Line Road		Kleist, Jon	11/21/2013	
Mud Creek 5m US of Confluence unnamed tributary		Kleist, Jon	11/21/2013	
Norman Creek - County Forest 701 Rd.		Kleist, Jon	11/21/2013	
Potato River 200m US of STH 77		Kleist, Jon	11/21/2013	
Scott Taylor Creek 10 m US of Confluence with Unnamed Stream		Kleist, Jon	11/21/2013	
Sixteen Creek 5m US STH 77		Kleist, Jon	11/21/2013	
Status Report for Tyler Forks 2013-14	Status Report for Tyler Forks 2013-14	Biologist	10/5/2016	

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## Wisconsin Department of Natural Resources SWIMS Project Summary

Total Phosphorus Lakes Assessment Report [Galilee Lake and Meder Lake, Ashland County]	Watershed: LS14. Total phosphorus assessment report for Galilee Lake and Meder Lake.	Kleist, Jon	11/21/2013	
Total Phosphorus Package_Is14	Total phosphorus package L superior	Kleist, Jon	11/21/2013	
Tyler Forks (atSth 77)		Kleist, Jon	11/21/2013	
Tyler Forks (atSth 77), 10012906		Kleist, Jon	11/21/2013	
Tyler Forks - Caroline Lake Road, 10034350		Kleist, Jon	11/21/2013	
Tyler Forks 2m US Shirley Lake Road		Kleist, Jon	11/21/2013	
Tyler Forks Area Map		Kleist, Jon	11/21/2013	
Tyler Forks Watershed Plan 2015 (LS13)	Assessments and recommendations for the Watershed. Tyler Forks (LS13) Watershed Plan	Kleist, Jon	3/5/2016	
Unnamed (Gold Mine) Creek 3m US gravel road		Kleist, Jon	11/21/2013	
Unnamed Trib to Mud Creek 10m US Caroiline Lake Road		Kleist, Jon	11/21/2013	
Unnamed Tributary (2926600) to Tyler Forks 340 m DS of old beaver dam-meadow		Kleist, Jon	11/21/2013	
Unnamed Tributary (2926600) to Tyler Forks 50 m DS of old beaver dammeadow		Kleist, Jon	11/21/2013	
Unnamed Tributary (2930900) to Ballou Cr 200m DS bridge		Kleist, Jon	11/21/2013	
Unnamed Tributary to Scott Taylor Creek 160m DS STH 169		Kleist, Jon	11/21/2013	
Vogue Creek 20m US Vogue Creek Road		Kleist, Jon	11/21/2013	
Water Temperature (Instantaneous) at Bull Gus Creek 100m DS of FR 703, 10037096		Kleist, Jon	11/21/2013	
bullguscreek 100mds dissolved oxygen instantaneous		Kleist, Jon	11/21/2013	
mibi_package_11_13_LS14		Kleist, Jon	11/21/2013	
mibi_package_charts_11_2013_LS14		Kleist, Jon	11/21/2013	



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pH (Instantaneous) at Bull Gus Creek 100m DS of FR 703, 10037096		Kleist, Jon	11/21/2013	
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Budget			
Budget Description: Tyler Forks Watershed Assessment		Start Date: 7/2/2012	End Date: 12/31/2012

Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours	260	Hours	\$0.00	\$0.00	
LTE SAL	LTE Salary	400	Hours	\$13.00	\$5,200.00	LTE monitoring, Data entry QA of planning tables for watershed plan
LTE FR	LTE Fringe				\$1,284.40	
LTE IND	LTE Indirect				\$1,048.53	
LTE TOT	LTE Total Cost				\$7,532.93	
SUPPLY	Supplies	1		\$550.00	\$550.00	alcohol, shipping, etc,
EQUIP	Equipment				\$0.00	
MILEAGE	Mileage	4000	Miles	\$0.72	\$2,880.00	
MEAL	Meals	46	Meals	\$9.00	\$414.00	LTE Dinners
LODGE	Lodging	12		\$70.00	\$840.00	2 rooms 6 nights
TRAVEL	Travel Total				\$4,134.00	
BUG	Bug Contracts	20		\$165.00	\$3,300.00	Fall 2012
OTHER	Other Contracts				\$0.00	
USGS	USGS Costs	1		\$3,000.00	\$3,000.00	Gage at Stricker Rd, This is approx 1/2 the cost very likely can get cost sharing by GLFWC or Local Township
TOTAL	Total Cost (excludes SLOH)				\$18,516.93	low level metals could incr project by approx \$2000

Test Code	Description	Test Group	# Planned	Unit Cost	Total Cost
I150ZR1	ARSENIC, TOTAL REC, ICP-MS (EPA 1638)	INORGANIC CHEMISTRY	24	\$7.15	\$171.60
I220ZR1	CADMIUM, TOTAL REC, ICP-MS (EPA 1638)	INORGANIC CHEMISTRY	24	\$7.15	\$171.60
I230IR1	CALCIUM, TOTAL REC, ICP (SW846 6010B)	INORGANIC CHEMISTRY	24	\$14.00	\$336.00
I240FLT	CHLORIDE (EPA 325.2)	INORGANIC CHEMISTRY	24	\$20.00	\$480.00
I260IR1	CHROMIUM, TOTAL REC, ICP (SW846 6010B)	INORGANIC CHEMISTRY	24	\$14.00	\$336.00
I260ZR1	CHROMIUM, TOTAL REC, ICP-MS (EPA 1638)	INORGANIC CHEMISTRY	24	\$7.15	\$171.60
I290ALT	COLOR, TRUE, PT-CO (SM 2120B)	INORGANIC CHEMISTRY	24	\$25.00	\$600.00
I305ALT	CONDUCTIVITY PH & ALK (SM2510B/EPA 150.1/SM2320B)	INORGANIC CHEMISTRY	24	\$22.00	\$528.00
I310ZR1	COPPER, TOTAL REC, ICP-MS (EPA 1638)	INORGANIC CHEMISTRY	24	\$7.15	\$171.60

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Test Code	Description	Test Group	# Planned	Unit Cost	Total Cost
I322IR1	DIG, TOTAL REC, ICP, LIQUIDS (SW846 3005A)	INORGANIC CHEMISTRY	24	\$21.45	\$514.80
I323ZDR	DIG, TOTAL REC, ICP-MS, IN BOTTLE (EPA 1638)	INORGANIC CHEMISTRY	24	\$17.88	\$429.12
I340IR1	HARDNESS (AS CaCO3), TOTAL REC, CALC (SM 2340B)	INORGANIC CHEMISTRY	24	\$5.37	\$128.88
I370IR1	IRON, TOTAL REC, ICP (SW846 6010B)	INORGANIC CHEMISTRY	24	\$14.00	\$336.00
I380ZR1	LEAD, TOTAL REC, ICP-MS (EPA 1638)	INORGANIC CHEMISTRY	24	\$7.15	\$171.60
I390IR1	MAGNESIUM, TOTAL REC, ICP (SW846 6010B)	INORGANIC CHEMISTRY	24	\$14.00	\$336.00
I400ZR1	MANGANESE, TOTAL REC, ICP-MS (EPA 1638)	INORGANIC CHEMISTRY	24	\$7.15	\$171.60
I430ZDT	MERCURY, ATOMIC FLUORESCENCE (EPA 1631)	INORGANIC CHEMISTRY	24	\$80.00	\$1,920.00
I440NLD	AMMONIA (AS N), DISS (EPA 350.1)	INORGANIC CHEMISTRY	24	\$25.89	\$621.36
I460MLD	NITRATE+NITRITE (AS N), DISS (EPA 353.2)	INORGANIC CHEMISTRY	24	\$27.00	\$648.00
I470DLT	TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2)	INORGANIC CHEMISTRY	24	\$32.99	\$791.76
I480ZR1	NICKEL, TOTAL REC, ICP-MS (EPA 1638)	INORGANIC CHEMISTRY	24	\$7.15	\$171.60
I495ZBC	CLEAN BOTTLE PREP - MERCURY	INORGANIC CHEMISTRY	24	\$25.03	\$600.72
I520PLT	TOTAL PHOSPHORUS (AS P) (EPA 365.1)	INORGANIC CHEMISTRY	24	\$23.60	\$566.40
I550ZR1	SELENIUM, TOTAL REC, ICP-MS (EPA 1638)	INORGANIC CHEMISTRY	24	\$7.15	\$171.60
I600ELT	SULFATE (EPA 375.2)	INORGANIC CHEMISTRY	24	\$26.00	\$624.00
I650JLT	SUSPENDED SOLIDS (EPA METHOD 160.2)	INORGANIC CHEMISTRY	24	\$18.80	\$451.20
I660NLT	TURBIDITY, NON-SDWA COMPLIANCE (SM 2130B)	INORGANIC CHEMISTRY	24	\$10.00	\$240.00
I670ZR1	ZINC, TOTAL REC, ICP-MS (EPA 1638)	INORGANIC CHEMISTRY	24	\$7.15	\$171.60
I720BLT	FIELD TESTS	INORGANIC CHEMISTRY	24	\$6.36	\$152.64
O1662A2	DISSOLVED ORGANIC CARBON (DOC) IN WATER - SM5310C	ORGANIC CHEMISTRY	24	\$49.01	\$1,176.24
O1662P2	DISSOLVED ORGANIC CARBON (DOC)-WATER-PREP-SM5310C	ORGANIC CHEMISTRY	24	\$19.36	\$464.64

**Total WSLH Lab Costs:** \$13,826.16

**Total Budget:** \$32,343.09

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Combined Budgets: \$18,516.93  
Combined WSLH: \$13,826.16  
Combined Total: \$32,343.09

Funding					
Organization	Source	Type	Amount	Start Date	End Date