

## Wisconsin Department of Natural Resources SWIMS Project Summary

### General Project Information

**Project ID:** ARRA\_Project8 WTDH  
**Name:** ARRA 8 Upper Fox River Pool Monitoring Project Grant 2P-00E73201  
**Type:** Grant Project  
**Subtype:** ARRA In-House Project  
**Status:** COMPLETE  
**Start Date:** 02/01/2009  
**End Date:** 12/31/2010  
**Purpose:** Monitoring activities related to the Upper Fox River TMDL.  
**Objective:** The development of a TMDL to address the phosphorus and sediment loading to Lake Winnebago is necessary because 50% of the nutrient and sediment load to the Lower Fox River is directly from Lake Winnebago. In order for the Lower Fox TMDL (currently in development) to meet its goals, reducing the pollutant load from Lake Winnebago is critical.

The Objective of this project is to address phosphorus and sediment loading from the Upper Fox River Basin to Lake Winnebago, and therefore support the work of the Lower Fox River Basin TMDL. This will be the second of three years of data needed to accurately model the sediment and phosphorus loading to Lake Winnebago.

**Comments:** DUNS #: \_\_\_\_\_  
 CCR#: \_\_\_\_\_  
 Total Amount; \$35,000

**Outcome:** There are 11 sample sites total between the 9 waterbodies that will be sampled at varying sampling schedules:

On the Fond du Lac River, Montello River, and Waukau Creek, bi-weekly surface water samples will be collected from March to November, and monthly from December to February and analyzed for total suspended solids, total phosphorus, and total dissolved phosphorus..

On the Fox and Puchyan Rivers, weekly samples will be collected from March 1 to June30, and bi-weekly July 1 to February 28.

On lakes Poygan, Butte des Morts, and Winneconne, samples will be collected at one site on each lake bi-weekly from May 1 to Sept. 30, and 1 time beneath the ice in February. Lake Winnebago will have three sites sampled on it during the same sampling schedule as the other lakes. Lake surface water samples will be analyzed for ammonia, total phosphorus, total dissolved phosphorus, total kjeldahl nitrogen, and chlorophyll-a.

Event samples will be collected by automated samplers installed on the Montello River, and Fond du Lac River. This project estimates that 20 event samples will be collected this year at each site.

USGS will maintain the flow gauges installed on the Montello River, Puchyan River, Fox River, Waukau Creek, and Fond du Lac River. At the end of the year USGS will use the sample data and flow data to estimate phosphorus and sediment loads for each waterbody.

The deliverable from this project is the second of three years of monitoring data needed to accurately model the sediment and phosphorus loading from the Upper Fox Basin into Lake Winnebago.

Flow gauging is contracted through USGS.

**Study Design:**

**QA Measures:**

### People

Name	Role	Status	Start Date	End Date	Organization	Comments
CLAYTON, NICOLE L	PROJECT_OFFI	COMPLETE	10/03/2009	10/31/2014	Wisconsin DNR	
GILBERTSON, MICHAEL A	COORDINATOR	ACTIVE	10/03/2009	12/31/2099	Wisconsin DNR	
McLennan, Robin	PROJECT_OFFI	COMPLETE	10/03/2009		Wisconsin DNR	
USGS,	GRANT_RECII	ACTIVE	10/03/2009		U.S. Geological Survey	

### Project Statuses

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Date	Reported By	Status	Comments
04/01/2010	MICHAEL GILBERTSON	Active	Funding for stream flow gauging in the Upper Fox River Basin for 1 year. USGS flow gauges are installed and operating with continuous USGS personnel support.
07/30/2010	MICHAEL GILBERTSON	Active	USGS Flow gauges are installed and operating with continuous USGS personnel support.
10/13/2010	MICHAEL GILBERTSON	Active	USGS Flow gauges are installed and operating with continuous USGS personnel support.
01/14/2011	MICHAEL GILBERTSON	Complete	

### Project Status Detail

Answer Set: DEFAULT

Question	Answer
1. Reporting Timeframe (Q1 (Oct-Dec), Q2 (Jan-Mar), Q3 (Apr-June), Q4 (July-Sept):	Q5(Oct-Dec)
2. Amount expended this time period:	
3. Subcontracts or subgrants awarded this period:	None
4. Number work hours created or maintained to date:	
5. Work accomplished this reporting period:	Yes, all work associated with running and maintaining the flow gauges has been accomplished
6. Work goals for coming reporting period:	Operation of the supported flow gauges is complete.
7. Overall project status:	Complete
8. WDNR Question: Job equivalent Created	

### Actions

Action	Detailed Description	Start	End Date	Status
TMDL Monitoring	Monitoring activities related to the Upper Fox River TMDL.	02/01/2009	12/31/2010	COMPLETE
<b>Details:</b>	<b>Parameter</b>	<b>Value/Amount</b>	<b>Units</b>	<b>Comments</b>
	Degraded Biological Community			
	PCBs			
	Total Nitrogen			
	Total Phosphorus			
	Total Suspended Solids			

### Monitoring Stations

Station ID	Name	Comments
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### Assessment Units

WBIC	Segment	Local Name	Official Name
117900	2	Lower Fox River (Depere Dam To Middle Appleton Dam)	Fox River
117900	3	Lower Fox River (Appleton Dam To L. Winnebago Outlet)	Fox River
121600	2	Dutchman Creek	Dutchman Creek
121600	3	Dutchman Creek	Dutchman Creek
122100	1	Unnamed Trib to Dutchman Creek	Unnamed
122600	1	Hemlock Creek	Hemlock Creek
123200	1	North Branch Ashwaubenon Creek	North Branch Ashwaubenon Creek
123400	1	South Branch Ashwaubenon Creek	South Branch Ashwaubenon Creek

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<b>WBIC</b>	<b>Segment</b>	<b>Local Name</b>	<b>Official Name</b>
124100	2	Apple Creek	Apple Creek
124200	1	Local Water	Unnamed
124600	1	Local Water	Unnamed
124700	1	Unnamed Trib to Apple Creek	Unnamed
124800	1	Local Water	Unnamed
124900	1	Unnamed Stream	Unnamed
125000	1	Local Water	Unnamed
125200	1	Local Water	Unnamed
125300	1	Local Water	Unnamed
125700	1	Unamed	Fox River Lock Channel-Rap.Cro.
126800	1	Kankapot Creek	Kankapot Creek
126800	2	Kankapot Creek	Kankapot Creek
126900	1	Local Water	Unnamed
127700	1	Garners Creek	Garners Creek
128000	1	Unnamed Tributary to Fox River	Unnamed
128100	1	Fox River Lock Channel-Cedars	Fox River Lock Channel-Cedars
128400	1	Fox River Lock Channel-Appleton	Fox River Lock Channel-Appleton
128600	1	Unnamed Stream	Unnamed
128800	1	Fox River Lock Channel	Fox River Lock Channel-Appleton
129500	1	Mud Creek	Mud Creek
129500	2	Mud Creek	Mud Creek
129600	1	Unnamed Stream	Unnamed
182500	1	Blueberry Lake	Blueberry Lake
203100	1	Un Lake	Unnamed
203200	1	Un Lake	Unnamed
203300	1	Un Lake	Unnamed
205000	1	Un Lake	Unnamed
205100	1	Un Lake	Unnamed
205300	1	Un Lake	Unnamed
205400	1	Un Lake	Unnamed
205500	1	Un Lake	Unnamed
205600	1	Un Lake	Unnamed
205700	1	Un Lake	Unnamed
205800	1	Un Lake	Unnamed
205900	1	Un Lake	Unnamed
207800	1	Un Lake	Unnamed
209100	1	Un Lake	Unnamed
209200	1	Un Lake	Unnamed
209300	1	Un Lake	Unnamed
241300	3	Wolf River-Main Stem	Wolf River
241300	4	Wolf River-Main Stem	Wolf River
251800	2	Rat River	Rat River
252200	1	Un Creek (T20n-R15e-S02)	Unnamed
252200	2	Un Creek (T20n-R15e-S02)	Unnamed
252300	1	Squaw Lake	Squaw Lake
252400	1	Unnamed Trib (WBIC=252400) to Rat River at Pioneer Rd	Unnamed
271200	1	Potters Creek	Potters Creek

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<b>WBIC</b>	<b>Segment</b>	<b>Local Name</b>	<b>Official Name</b>
271300	1	TRIBUTARY TO THE WOLF RIVER	Unnamed
271400	1	Local Water	Unnamed
271700	1	Shaky Lake	Shaky Lake
291900	1	Embarrass River	Embarrass River
292000	1	Un Channel (T23n-R15e-S33)	Embarrass River -Un Channel
292100	1	Bear Creek	Bear Creek
292100	2	Bear Creek	Bear Creek
292200	1	Maple Creek	Maple Creek
292500	1	Local Water	Unnamed
292900	1	Local Water	Unnamed
315100	1	Ox-Bow Lake	Unnamed
315300	1	Black Otter Creek	Black Otter Creek
315300	2	Black Otter Creek	Black Otter Creek
315600	1	Black Otter Lake (Hortonville)	Black Otter Lake (Hortonville)
315900	1	Un Lake	Unnamed
316000	1	Bear Creek	Bear Creek
316000	2	Bear Creek	Bear Creek
316000	3	Bear Creek	Bear Creek
316000	4	Bear Creek	Bear Creek
316100	1	Un Creek (T22n-R16e-S22)	Unnamed
316300	1	Allerton Lake	Allerton Lake
316400	1	Unnamed Ditch (T22n-R17e-S19)	Unnamed
316500	1	Unnamed Trib to Bear Creek	Unnamed
316800	1	Shioc River	Shioc River
317000	1	Black Creek	Unnamed
317100	1	Black Creek	Black Creek
317100	2	Black Creek	Black Creek
317200	1	Local Water	Unnamed
317600	1	Toad Creek	Toad Creek
318000	1	Herman Creek	Herman Creek
319700	1	Un Lake	Unnamed
319900	1	Un Lake	Unnamed
320000	1	Gooseville Creek	Unnamed
408400	1	Un Lake	Unnamed
408800	1	Un Lake	Unnamed
409700	2	Duck Creek	Duck Creek
409700	3	Duck Creek	Duck Creek
409700	4	Duck Creek	Duck Creek
410200	1	Trout Creek	Trout Creek
410450	1	Tributaries to Duck Creek	Unnamed
410450	2	Trib. to Duck Creek	Unnamed
411600	1	West Branch Suamico River	West Branch Suamico River
411700	2	South Branch Suamico River	South Branch Suamico River
3000112	1	Local Water	Unnamed
3000112	2	Local Water	Unnamed
3000557	1	Unnamed Stream	Unnamed
3000596	1	Unnamed Stream	Unnamed
3000618	1	Unnamed Stream	Unnamed

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<b>WBIC</b>	<b>Segment</b>	<b>Local Name</b>	<b>Official Name</b>
3000619	1	Unnamed Stream	Unnamed
4000023	1	Oneida Lake	Oneida Lake
5016244	1	Unnamed Stream	Unnamed
5016351	1	Unnamed Stream	Unnamed
5016419	1	Unnamed Stream	Unnamed
5016508	1	Unnamed Stream	Unnamed
5016596	1	Unnamed Stream	Unnamed
5016635	1	Unnamed Stream	Unnamed
5016645	1	Unnamed Stream	Unnamed
5016808	1	Unnamed Stream	Unnamed
5016870	1	Unnamed Stream	Unnamed
5016918	1	Unnamed Stream	Unnamed
5016928	1	Unnamed Stream	Unnamed
5017134	1	Unnamed Stream	Unnamed
5017444	1	Unnamed	Unnamed
5018352	1	Unnamed Trib to Duck Creek	Unnamed
5018448	1	Unnamed Trib to Duck Creek	Unnamed
5018448	2	Unnamed Trib to Duck Creek	Unnamed
5018670	1	Local Water	Unnamed
5018779	1	Unnamed Stream	Unnamed
5018836	1	Unnamed Stream	Unnamed
5018887	1	Unnamed Stream	Unnamed
5019260	1	Unnamed Stream	Unnamed
5019302	1	Unnamed Stream	Unnamed
5019458	1	Unnamed Stream	Unnamed
5019472	1	Unnamed Stream	Unnamed
5019563	1	Unnamed Stream	Unnamed
5019568	1	Unnamed Stream	Unnamed
5019614	1	Unnamed Stream	Unnamed
5019734	1	North Branch Ashwaubenon Creek	North Branch Ashwaubenon Creek
5019748	1	Unnamed Stream	Unnamed
5019790	1	Unnamed Stream	Unnamed
5019802	1	Unnamed Stream	Unnamed
5019918	1	Unnamed Stream	Unnamed
5019938	1	Unnamed Stream	Unnamed
5020006	1	Unnamed Stream	Unnamed
5020043	1	Unnamed Stream	Unnamed
5020059	1	Unnamed Stream	Unnamed
5020098	1	Unnamed Stream	Unnamed
5020118	1	TRIBUTARY TO THE WOLF RIVER	Unnamed
5020125	1	Unnamed Stream	Unnamed
5020147	1	Unnamed Stream	Unnamed
5020150	1	Unnamed Stream	Unnamed
5020199	1	Unnamed Stream	Unnamed
5020212	1	Unnamed Creek	Unnamed
5020224	1	Unnamed Stream	Unnamed
5020318	1	Unnamed Stream	Unnamed
5020381	1	Unnamed Stream	Unnamed

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<b>WBIC</b>	<b>Segment</b>	<b>Local Name</b>	<b>Official Name</b>
5020390	1	Unnamed Stream	Unnamed
5020419	1	Unnamed Stream	Unnamed
5020491	1	Unnamed Stream	Unnamed
5020499	1	Unnamed Stream	Unnamed
5020514	1	Unnamed Stream	Unnamed
5020522	1	Unnamed Stream	Unnamed
5020549	1	Unnamed Trib to Apple Creek	Unnamed
5020594	1	Unnamed Stream	Unnamed
5020615	1	Local Water	Unnamed
5020635	1	Unnamed Stream	Unnamed
5020673	1	Unnamed Stream	Unnamed
5020703	1	Unnamed Stream	Unnamed
5020704	1	Unnamed Stream	Unnamed
5020744	1	Unnamed Stream	Unnamed
5020807	1	Apple Creek	Apple Creek
5020835	1	Unnamed Stream	Unnamed
5020845	1	Unnamed Stream	Unnamed
5020859	1	Unnamed Stream	Unnamed
5020875	1	Unnamed Stream	Unnamed
5020887	1	Unnamed Stream	Unnamed
5020891	1	Unnamed Stream	Unnamed
5020897	1	Unnamed Stream	Unnamed
5020911	1	Unnamed Stream	Unnamed
5020922	1	Unnamed Stream	Unnamed
5020944	1	Unnamed Stream	Unnamed
5020948	1	Unnamed Stream	Unnamed
5020995	1	Unnamed Stream	Unnamed
5021001	1	Unnamed Stream	Unnamed
5021031	1	Unnamed Stream	Unnamed
5021046	1	Unnamed Stream	Unnamed
5021052	1	Unnamed Stream	Unnamed
5021060	1	Unnamed Stream	Unnamed
5021120	1	Unnamed Stream	Unnamed
5021149	1	Unnamed Stream	Unnamed
5021156	1	Unnamed Stream	Unnamed
5021184	1	Unnamed Stream	Unnamed
5021265	1	Unnamed Stream	Unnamed
5021285	1	Unnamed Stream	Unnamed
5021293	1	Unnamed Stream	Unnamed
5021372	1	Unnamed Stream	Unnamed
5021479	1	Unnamed Stream	Unnamed
5021600	1	Unnamed Trib to Fox River	Unnamed
5021676	1	Garners Creek	Unnamed
5021735	1	Unnamed Stream	Unnamed
5021854	1	Ditch To Tributary To Mud Creek	Unnamed
5022136	1	Unnamed Tributary to Garners Creek	Unnamed
5022162	1	Unnamed Trib to Garners Creek	Unnamed
5022198	1	Unnamed Trib to Garners Creek	Unnamed

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<b>WBIC</b>	<b>Segment</b>	<b>Local Name</b>	<b>Official Name</b>
5022198	2	Unnamed Trib to Garners Creek	Unnamed
5545142	1	Local Water	Unnamed
5545207	1	Local Water	Unnamed
5545239	1	Local Water	Unnamed
5545459	1	Local Water	Unnamed
5545569	1	Local Water	Unnamed
5545667	1	Local Water	Unnamed
5545689	1	Local Water	Unnamed
5545782	1	Local Water	Unnamed
5545841	1	Local Water	Unnamed
5545944	1	Local Water	Unnamed
5545952	1	Local Water	Unnamed
5545979	1	Local Water	Unnamed
5545994	1	Local Water	Unnamed
5546005	1	Local Water	Unnamed
5546029	1	Local Water	Unnamed
5546031	1	Local Water	Unnamed
5546097	1	Local Water	Unnamed
5546163	1	Local Water	Unnamed
5546192	1	Local Water	Unnamed
5546205	1	Local Water	Unnamed
5546224	1	Local Water	Unnamed
5546342	1	Local Water	Unnamed
5546597	1	Local Water	Unnamed
5546675	1	Local Water	Unnamed
5546713	1	Local Water	Unnamed
5546842	1	Local Water	Unnamed
5546939	1	Local Water	Unnamed
5546955	1	Local Water	Unnamed
5546999	1	Local Water	Unnamed
5547098	1	Local Water	Unnamed
5547110	1	Local Water	Unnamed
5547155	1	Local Water	Unnamed
5547182	1	Local Water	Unnamed
5547191	1	Local Water	Unnamed
5547228	1	Local Water	Unnamed
5547246	1	Local Water	Unnamed
5547281	1	Local Water	Unnamed
5547301	1	Local Water	Unnamed
5547359	1	Local Water	Unnamed
5547418	1	Local Water	Unnamed
5547471	1	Local Water	Unnamed
5547500	1	Local Water	Unnamed
5547528	1	Local Water	Unnamed
5547583	1	Local Water	Unnamed
5547590	1	Local Water	Unnamed
5547593	1	Local Water	Unnamed
5547628	1	Local Water	Unnamed

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<b>WBIC</b>	<b>Segment</b>	<b>Local Name</b>	<b>Official Name</b>
5547682	1	Local Water	Unnamed
5547702	1	Local Water	Unnamed
5547720	1	Local Water	Unnamed
5547725	1	Local Water	Unnamed
5547740	1	Local Water	Unnamed
5547753	1	Local Water	Unnamed
5547765	1	Local Water	Unnamed
5547786	1	Local Water	Unnamed
5547837	1	Local Water	Unnamed
5547901	1	Local Water	Unnamed
5547906	1	Local Water	Unnamed
5547911	1	Local Water	Unnamed
5547937	1	Local Water	Unnamed
5547972	1	Local Water	Unnamed
5547983	1	Local Water	Unnamed
5547985	1	Local Water	Unnamed
5548035	1	Local Water	Unnamed
5548037	1	Local Water	Unnamed
5548184	1	Local Water	Unnamed
5548239	1	Local Water	Unnamed
5548252	1	Local Water	Unnamed
5548284	1	Local Water	Unnamed
5548389	1	Local Water	Unnamed
5548565	1	Local Water	Unnamed
5548639	1	Local Water	Unnamed
5548652	1	Local Water	Unnamed
5548663	1	Local Water	Unnamed
5548670	1	Local Water	Unnamed
5548772	1	Local Water	Unnamed
5548774	1	Local Water	Unnamed
5548787	1	Local Water	Unnamed
5548862	1	Local Water	Unnamed
5548875	1	Local Water	Unnamed
5548950	1	Local Water	Unnamed
5549088	1	Local Water	Unnamed
5549131	1	Local Water	Unnamed
5549427	1	Local Water	Unnamed
5549440	1	Local Water	Unnamed
5549509	1	Local Water	Unnamed
5549542	1	Local Water	Unnamed
5549642	1	Local Water	Unnamed
5549647	1	Local Water	Unnamed
5549670	1	Local Water	Unnamed
5549671	1	Local Water	Unnamed
5549694	1	Local Water	Unnamed
5549710	1	Local Water	Unnamed
5549746	1	Local Water	Unnamed
5549755	1	Local Water	Unnamed



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<b>WBIC</b>	<b>Segment</b>	<b>Local Name</b>	<b>Official Name</b>
5549824	1	Local Water	Unnamed
5549859	1	Local Water	Unnamed
5549955	1	Local Water	Unnamed
5550039	1	Local Water	Unnamed
5550065	1	Local Water	Unnamed
5550126	1	Local Water	Unnamed
5550144	1	Local Water	Unnamed
5550164	1	Local Water	Unnamed
5550372	1	Local Water	Unnamed
5550478	1	Local Water	Unnamed
5550581	1	Local Water	Unnamed
5550598	1	Local Water	Unnamed
5550627	1	Local Water	Unnamed
5551120	1	Local Water	Unnamed
5551357	1	Local Water	Unnamed
5551731	1	Local Water	Unnamed
5551819	1	Local Water	Unnamed
5552535	1	Local Water	Unnamed
5552888	1	Local Water	Unnamed
5553161	1	Local Water	Unnamed
5553162	1	Local Water	Unnamed
5553231	1	Local Water	Unnamed
5553232	1	Local Water	Unnamed
5553233	1	Local Water	Unnamed
5582117	1	Local Water	Unnamed
5582119	1	Local Water	Unnamed
5582122	1	Local Water	Unnamed
5582123	1	Local Water	Unnamed
5582125	1	Local Water	Unnamed
5582126	1	Local Water	Unnamed
5582128	1	Local Water	Unnamed
5582129	1	Local Water	Unnamed
5582135	1	Local Water	Unnamed
5582141	1	Local Water	Unnamed
5582145	1	Local Water	Unnamed
5582146	1	Local Water	Unnamed
5582147	1	Local Water	Unnamed
5582154	1	Local Water	Unnamed
5582161	1	Local Water	Unnamed
5582163	1	Local Water	Unnamed
5582164	1	Local Water	Unnamed
5582165	1	Local Water	Unnamed
5582166	1	Local Water	Unnamed
5582172	1	Local Water	Unnamed
5582173	1	Local Water	Unnamed
5582174	1	Local Water	Unnamed
5584660	1	Local Water	Unnamed
5584665	1	Local Water	Unnamed

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WBIC	Segment	Local Name	Official Name
5584688	1	Local Water	Unnamed
5584700	1	Local Water	Unnamed
5584701	1	Local Water	Unnamed
5584702	1	Local Water	Unnamed
5584749	1	Local Water	Unnamed
5584783	1	Local Water	Unnamed
5584821	1	Local Water	Unnamed
5584831	1	Local Water	Unnamed
5591417	1	Unnamed Lake	Unnamed
5591420	1	Unnamed Lake	Unnamed
7215138	1	Local Water	Unnamed

### Lab Account Codes

Account Code	Description	Start Date	End Date
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### Forms

Form Code	Form Name
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### Methods

Method Code	Description
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### Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
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### Documents

Title	Description	Author	Published	Comments
ARRA 8 2009 Contract with USGS	USGS Contract	Wdnr	02/06/2010	
ARRA Project 8 Upper Fox River Pool Monitoring 2009 Project Description	Project Description	Wdnr	06/01/2009	
ARRA_8_FinalQuarterlyReport	Grant Report		12/01/2011	
ARRA_8_Q1FFY11_Report	Grant Report		01/31/2011	
ARRA_8_Q2FFY10_Report		Wdnr	04/28/2010	
ARRA_8_Q2FFY11_Report	Grant Report		04/29/2011	
ARRA_8_Q3FFY10_Report	Grant Report		07/30/2010	
ARRA_8_Q4FFY10_Report	Grant Report		01/03/2011	
Final Report Upper Fox River Basin Monitoring Data 2008-2009		Michael Gilbertson	02/13/2012	
Final Report Upper Fox River Basin Monitoring Data 2009-2010		Michael Gilbertson	02/13/2012	
Final Report Upper Fox TMDL Flow Data 2009-2010		Michael Gilbertson	02/13/2012	

### Budget

## Wisconsin Department of Natural Resources SWIMS Project Summary

**Combined Budgets:**

**Combined SLOH:**

**Combined Total:**

### Funding

Organization	Source	Type	Amount	Start Date	End Date
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