

# Wisconsin Department of Natural Resources SWIMS Project Summary

## General Project Information

**Project ID:** WCR\_04\_CMP10

**Name:** Springville Branch (WBIC 1642200) and Viroqua WWTP Study - WCR\_04\_10

**Type:** Targeted Monitoring

**Subtype:** Watershed Project

**Status:** ACTIVE

**Start Date:** 7/1/2009

**End Date:** 6/30/2010

**Purpose:** This study involves evaluating various alternatives for wastewater effluent from the city of Viroqua. The city operates a 0.600 million gallons per day (MGD) wastewater treatment facility that discharges to the Springville Branch of the Bad Axe River. The wastewater effluent flows over karstic rock (An area of irregular limestone in which erosion has produced fissures, sinkholes, underground streams, and caverns) for approximately 2.75 miles above the Springville spring. Above the Springville spring, the Springville Branch of the Bad Axe is a dry run channel classified as limited aquatic life in ch. NR 104. Below the spring, the Springville Branch of the Bad Axe River is managed as a Class I trout stream. Investigations by the WDNR and the City have determined that the vast majority of the wastewater is lost to groundwater either through swallets or flow directly over exposed fractured bedrock prior to reaching the spring. Discharge of treated wastewater into fractured bedrock is an unacceptable practice. Alternatives include:

1. Treating effluent to groundwater standards.
2. Piping the effluent to surface water.
3. Constructing a catchment structure upstream of exposed bedrock and piping normal stream flow past the area of exposed bedrock to surface water.
4. Modify the streambed to reduce infiltration

**Objective:** The objective of this project is to finish collecting data to allow for the use of the Wisconsin DNR Small Stream Model (or equivalent) for determination of effluent limitations for the City of Viroqua WWTP.

Discharge of treated wastewater into fractured bedrock is an unacceptable practice and during the next permit cycle actions will need to be taken to remedy the situation. Alternatives include:

1. Treating effluent to groundwater standards. This would include a Total Nitrogen limit of 10 mg/l and a disinfection limit to be defined but somewhere in the 0 total coliform to 0 fecal coliform range.
2. Piping the effluent to surface water.
3. Constructing a catchment structure upstream of exposed bedrock and piping normal stream flow past the area of exposed bedrock to surface water. This alternative would bypass the major sources of leakage during normal stream flows. During high stream flows, part of the flow would follow the existing stream bed and some infiltration would occur.
4. Modify the streambed to reduce infiltration.

Except for option 1, these options would require a determination of surface water effluent limitations. Currently, the facility has BOD limitations of 20 mg/L monthly average and 30 mg/L weekly average. Using the 26 lb method results in calculated effluent limitations of <10 mg/L weekly average for direct discharge to the trout stream reach, which the current treatment facility could not meet. We have concerns about using this method for small streams, given that it was developed for large rivers. In addition, the method is incapable of accounting for any in-stream BOD decay that may take place in the stream if option 3 or 4 were pursued. Incorrect calculations of water quality based limitations would either result in unnecessary capital and operation and maintenance costs by the City, or unacceptable impacts to this high quality fishery resource

This is a continuation of an existing project. The study was intended to have three sampling events, however due to an oversight, lab costs were only requested for two sampling events.

**Comments:** Note any additional comments you'd like to add. It is likely that the City will pursue either option 2 or 3.

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**Outcome:** Water chemistry will be collected (in 24 hr time composites) from the Springville Branch of the Bad Axe River above the spring (i.e. WWTP effluent) at three sites and analyzed for BOD5, CBOD5, ultimate CBOD, nitrogen series and chlorides during three sampling events. These data will be used to determine BOD/Ultimate CBOD ratios and decay coefficients for NBOD and CBOD. Background water chemistry from the Springville Branch of the Bad Axe River at three sites below the spring will be collected for CBOD5, ultimate CBOD, nitrogen series and alkalinity. In addition, continuous dissolved oxygen, pH, temperature, and light intensity will be measured at three sites. Finally, time of travel, stream flow, and additional habitat data will be collected. These data will provide information on the background CBOD and nitrogen levels, dissolved oxygen and temperature and estimates of reaeration, photosynthesis, and respiration rates.

**Study Design:**

**QA Measures:**

### People

Name	Role	Status	Start Date	End Date	Organization	Comments
HAZUGA, MARK J	TEAM_MEMBER	COMPLETE	7/1/2009	6/30/2010	Wisconsin DNR	
KOPERSKI, CYNTHIA A	TEAM_MEMBER	ACTIVE	7/1/2009	6/30/2010	Wisconsin DNR	
OLDENBURG, PATRICK S	COORDINATOR	COMPLETE	7/1/2009	6/30/2010	Wisconsin DNR	

### Project Statuses

Date	Reported By	Status	Comments
6/12/2012	PATRICK OLDENBURG	Progress: 75-100% Complete	All field data has been collected. Final reports and full data analysis will be developed during the anticipated facility planning process for the City of Viroqua (i.e. WQBEL development).

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### Project Status Detail

**Answer Set: DEFAULT**

Question	Answer
1. Project Category (SP 12 (Measure W); 303(d) Waters; Continuation (TMDL, Use Designation); New Projects; Wetlands, CBSM	Continuation (Tier III)
2. Regional Priority by Category (ex: SP12-1, SP12-2, etc.)	
3. Number of Sample Sites (Enter the station IDs if you know them).	6
4. Number of Sample Events (Indicate how many trips into the field you anticipate for this project).	4- 8 field days; only 1 set of water chemistry samples for lab
5. Proposed Dates for Sample Collection	July 2009
6. List applicable databases and who will enter data?	SWIMS - Lab and regional staff
7. FTE Hours (Funds) Needed	80
8. LTE Hours (Funds) Needed	0
9. Supplies - Describe in Detail	\$100 shipping, misc supplies
10. Describe Travel Needed	6 trips for fieldwork. \$600
11. UWSP Macroinvertebrate Samples (How Many?)	0
12. Additional Contractual dollars - Who? What? and How much?	0
13. Equipment - What is needed and Why? (New Equipment, Cost?)	\$50 for new composite bottle for ISCO
14. Capital Equipment >\$5,000 - Describe needed equipment [Note: Federal funds cannot be used to purchase capital equipment].	0
15. State Lab of Hygiene Analyses: Describe the number, type of parameters - See Worksheet	\$2,343.03 for BOD, N-series, Cl , see worksheet
16. Partner Contributions: Describe any funding provided by other DNR programs or non-DNR contributions.	0
17. Total Year 1 (Please itemize: \$LTE + \$SLOH + \$Equipment + \$Travel + \$UWSP Lab + \$Other) = _____	\$3,093.03
18. Total Year 2 (Please itemize: \$LTE + \$SLOH + \$Equipment + \$Travel + \$UWSP Lab + \$Other) = _____	0
19. Project Total (Please itemize: \$LTE + \$SLOH + \$Equipment + \$Travel + \$UWSP Lab + \$Other) = _____	0
20. Additional Comments	
21. Did you receive special projects funding during FY 2009?	Yes
22. If yes to question 17, did you complete the projects including data entry and reports? If not, why not?	Samples that were funded were collected. Physical habitat data collected. Time of travel studies need completion.
23. Reviewer Notes: Identify questions or issues with project (use during review period)	
24. Reviewer Decision: Is this project recommended for funding?	

### Actions

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Action	Detailed Description	Start Date	End Date	Status
Water Quality Modeling	The objective of this project is to finish collecting data to allow for the use of the Wisconsin DNR Small Stream Model (or equivalent) for determination of effluent limitations for the City of Viroqua WWTP. Discharge of treated wastewater into fractured bedrock is an unacceptable practice and during the next permit cycle actions will need to be taken to remedy the situation.	7/1/2009	6/30/2010	COMPLETE

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

### Monitoring Stations

Station ID	Name	Comments
10016658	Springville Branch - Barber Driveway Bridge Dwnstrm Ofwwtp	
10029066	Springville Branch - Upstream of excavator parking lot/crossing	
10008977	Springville Branch Station #1 826' D/S From Fence	
10008980	Springville Branch Station #2 Vikemyr Rd.	
10008982	Springville Branch Station #3 76' U/S From Bridge On Cth B	
10029065	Viroqua WWTP	

### Assessment Units

WBIC	Segment	Local Name	Official Name
721000	4	Mississippi (Reach 4) Coon-Yellow - Pool 8 portion - LD 8 to Root R.)	Mississippi River
721000	5	Mississippi (Reach 4) Coon-Yellow - Pool 9 portion - LD 9 to LD 8)	Mississippi River
726000	1	North Waller Lake	Waller Lakes
726800	1	Beyers Lake	Beyers Lake
1027400	1	Un Lake	Unnamed
1028000	1	Un Lake	Unnamed
1028100	1	Un Lake	Unnamed
1028200	1	Un Lake	Unnamed
1028300	1	Un Lake	Unnamed
1028400	1	Un Lake	Unnamed
1028500	1	Un Lake	Unnamed
1028600	1	Un Lake	Unnamed

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1028700	1	Un Lake	Unnamed
1029400	1	Un Lake	Unnamed
1029500	1	Un Lake	Unnamed
1029600	1	Un Lake	Unnamed
1029700	1	Un Lake	Unnamed
1029800	1	Un Lake	Unnamed
1029900	1	Un Lake	Unnamed
1030000	1	Un Lake	Unnamed
1030100	1	Un Lake	Unnamed
1030200	1	Un Lake	Unnamed
1174700	1	Un Spring	Un Spring
1182400	2	Kickapoo River	Kickapoo River
1182400	6	Kickapoo River	Kickapoo River
1182400	12	Kickapoo River	Kickapoo River
1185500	2	Tainter Creek	Tainter Creek
1186200	1	Local Water	Unnamed
1186400	1	Mcgraw Cr (18-3)(T11nr4w18-13)	Unnamed
1186500	1	Hincks Creek	Unnamed
1186800	1	Hinck'S Creek (Creek 5-11)	Unnamed
1187400	1	Reads Creek (Black Bottom Cr)	Reads Creek
1187500	1	Sherry Creek	Sherry Creek
1187600	1	Creek 6-11 T11n R3w	Unnamed
1187700	1	Unnamed Stream	Unnamed
1187800	1	Day Creek	Day Creek
1187810	1	Tributary to the Kickapoo River	Unnamed
1187900	1	W. Fork Kickapoo River	West Fork Kickapoo River
1187900	2	W. Fork Kickapoo River	West Fork Kickapoo River
1187900	4	West Fork Kickapoo River	West Fork Kickapoo River
1188000	1	Harrison Creek	Harrison Creek
1188100	1	Unnamed Stream	Unnamed
1188300	1	Un Lake	Unnamed
1188400	1	Unnamed Trib to W Fk Kickapoo River	Unnamed
1188500	1	Bishop Branch	Bishop Br
1188500	2	Bishop Branch	Bishop Br
1188700	1	Local Water	Unnamed

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1188800	1	Maple Dale Creek (Creek 2-3)	Maple Dale Creek
1188900	1	Creek 35-10 (Pine Hollow Creek)	Unnamed
1189000	1	Cooks Creek	Cook Creek
1189100	1	Birds Creek	Birds Creek
1189200	1	Elk Run	Elk Run
1189300	1	Rocky Run	Rocky Run
1189600	1	Unnamed Stream	Unnamed
1189700	1	Creek 19-3	Unnamed
1189800	1	Seas Branch	Seas Branch
1189800	2	Seas Branch	Seas Branch
1189900	1	Un Trib. to Seas Branch	Unnamed
1190300	1	Seas Branch Pond	Seas Branch Pond
1190400	1	Unnamed Trib to Seas Branch	Unnamed
1190500	1	Creek 7-8	Unnamed
1190600	1	Unnamed Stream	Unnamed
1190700	1	Hall Creek	Hall Creek
1190800	1	Unnamed	Unnamed
1190900	1	Un. trib. to W. Fork Kickapoo River(14N,3W, sec. 29)	Unnamed
1191200	1	Un. trib. to W. Fork Kickapoo (14N4W, Sec. 25)	Unnamed
1191300	1	Dickson Branch (Trib. to W. Fork Kickapoo River)	Dickson Br
1191400	1	Knapp Creek	Knapp Creek
1191600	1	Jersey Valley Lake	Jersey Valley Lake
1191700	1	Elk Creek	Elk Creek
1191700	2	Elk Creek	Elk Creek
1191800	1	Creek 1-5	Unnamed
1191900	1	South Jug Creek	Tenny Spring Creek
1192500	1	Un Lake	Unnamed
1193300	2	Chadwick Hollow Creek	Chadwick Hollow Creek
1193500	1	Bear Creek (Lower)	Bear Creek
1193600	1	South Bear Creek	South Bear Creek
1193600	2	South Bear Creek	South Bear Creek
1193700	1	Bear Creek (Middle)	Middle Bear Creek
1193700	2	Middle Bear Creek	Middle Bear Creek
1194100	1	North Bear Creek	North Bear Creek
1194200	1	Otter Creek	Otter Creek

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1194800	1	Plum Run	Plum Run
1194900	1	Weister Creek	Weister Creek
1195000	1	Twenty-Four Valley Creek	Twentyfour Valley Creek
1195200	1	Clark Creek	Clark Creek
1195300	1	Creek 23-1	Unnamed
1195400	1	Indian Creek	Indian Creek
1195500	1	Jug Creek	Jug Creek
1195600	1	South Jug Creek	South Jug Creek
1195700	1	Warner Creek	Warner Creek
1195800	1	Winchell Valley Creek	Winchell Valley Creek
1196000	1	Local Water	Unnamed
1196200	1	Warner Branch	Warner Br
1196300	1	Creek 4-12	Unnamed
1196900	1	Billings Creek	Billings Creek
1197000	1	Cheyenne Valley Creek	Cheyenne Valley Creek
1197100	1	Barton Hollow Creek	Barton Hollow Creek
1197200	1	Newman Valley Creek	Newman Valley Creek
1197300	1	Johnnycake Hollow Creek	Johnnycake Hollow Creek
1197700	1	Crouch Valley Creek	Crouch Valley Creek
1197700	2	Crouch Valley Creek	Crouch Valley Creek
1197800	1	Winchell Valley Creek	Winchell Valley Creek
1198200	1	Creek 22-8 (Hay Valley Creek)	Hay Valley Creek
1198300	1	Brush Creek	Brush Creek
1198600	1	Lower Brush Creek	Lower Brush Creek
1199400	1	Brey Valley Creek	Brey Valley Creek
1220600	3	Pine River	Pine River
1231000	2	Basswood Creek	Basswood Creek
1232200	2	Melancthon Creek	Melancthon Creek
1232200	3	Melancthon Creek	Melancthon Creek
1232200	4	Melancthon Creek	Melancthon Creek
1232630	1	Unnamed Trib To Melancthon Creek (T12nr1e, 3-4d)	Unnamed
1233600	2	Champion Valley Creek	Champion Valley Creek
1233700	1	Greenwood Valley Creek	Greenwood Valley Creek
1233700	2	Greenwood Valley Creek	Greenwood Valley Creek
1233900	1	Creek 31-3	Unnamed

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1234100	1	Unnamed	Unnamed
1234300	1	Unnamed	Unnamed
1282500	3	Little Baraboo River	Little Baraboo River
1288400	1	West Br Baraboo River	West Branch Baraboo River
1288400	2	West Br Baraboo River	West Branch Baraboo River
1288400	4	West Br Baraboo River	West Branch Baraboo River
1288800	1	Hills Creek	Hills Creek
1289000	1	Local Water	Unnamed
1289500	1	Dutch Valley Creek	Unnamed
1289700	1	Field Veterans Memorial Lake	Field Veterans Memorial Lake
1289800	1	South Br Creek (S Br Baraboo)	South Branch Creek
1289800	2	South Br Creek (S Br Baraboo)	South Branch Creek
1289900	1	Local Water	Unnamed
1290000	1	Local Water	Unnamed
1290100	1	Beaver Creek	Beaver Creek
1290200	1	Local Water	Unnamed
1290400	1	Local Water	Unnamed
1290500	1	Local Water	Unnamed
1290600	1	Local Water	Unnamed
1290700	1	Local Water	Unnamed
1290800	1	Local Water	Unnamed
1290900	1	Dilly Creek	Unnamed
1290900	2	Local Water	Unnamed
1291000	1	Local Water	Unnamed
1291100	1	Local Water	Unnamed
1291200	1	Local Water	Unnamed
1291300	1	Local Water	Unnamed
1291400	2	Seymour Creek	Seymour Creek
1291400	3	Seymour Creek	Seymour Creek
1633500	1	Un Lake	Unnamed
1633600	1	Local Water	Unnamed
1633700	1	Un Lake	Unnamed
1633800	1	Un Lake	Unnamed
1633900	1	Un Lake	Unnamed
1634000	1	Local Water	Unnamed



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1634100	1	Un Lake	Unnamed
1634200	1	Local Water	Unnamed
1634300	1	Un Lake	Unnamed
1634400	1	Un Lake	Unnamed
1634500	1	Un Lake	Unnamed
1637000	2	Rush Creek	Rush Creek
1637000	3	Rush Creek	Rush Creek
1637800	1	Unnamed Stream	Unnamed
1638100	1	Cooley Creek	Cooley Creek
1638200	1	Unnamed Stream	Unnamed
1638300	1	Unnamed Stream	Unnamed
1638500	1	Unnamed Stream	Unnamed
1638600	1	Creek 17-7	Unnamed
1638800	1	Creek 19-7 (Trib To Rush Creek)	Unnamed
1639000	1	Unnamed Stream	Unnamed
1639100	1	Unnamed Stream	Unnamed
1639200	1	Battle Hollow Creek (T11nr7s9)	Unnamed
1639300	1	Bad Axe River	Bad Axe River
1639400	1	Riley Creek (Creek 16-1)	Riley Creek
1639700	1	Un Lake	Unnamed
1639800	1	Un Lake	Unnamed
1639900	1	South Fork Bad Axe River	South Fork Bad Axe
1640200	1	Unnamed Stream	Unnamed
1640400	1	Frohock Creek (Creek 15-14)	Unnamed
1640400	2	Local Water	Unnamed
1640500	1	Frohock Creek	Unnamed
1640600	1	Norwegian Hollow Cr.	Norwegian Hollow Creek
1640700	1	Hornby Creek	Hornby Creek
1640900	1	Bull Run Creek	Bull Run
1641000	1	Local Water	Unnamed
1641100	1	Unnamed Trib to Hornby Creek	Unnamed
1641200	1	Coe Hollow Creek	Coe Hollow Creek
1641200	2	Coe Hollow Creek	Coe Hollow Creek
1641400	1	Sidie Hollow Lake	Sidie Hollow Lake
1641500	1	Sidie Hollow Creek	Sidie Hollow Creek

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1641700	1	Esofea Branch	North Fork Bad Axe River
1641700	2	Esofea Branch	North Fork Bad Axe River
1641700	3	North Fork Bad Axe River	North Fork Bad Axe River
1641800	1	Cox Creek	Cox Creek
1641800	2	Cox Creek	Cox Creek
1641900	1	Un. Trib. to N. Fork Bad Axe (13N6W, Sec. 19)	Unnamed
1642000	1	Un. trib. to N. fork Bad Axe (13N6W, Sec. 20)	Unnamed
1642100	1	Un. trib. to N. Fork Bad Axe (13N6W, Sec. 23)	Unnamed
1642200	1	Bad Axe River, Springville Branch	Springville Br Bad Axe River
1642400	1	Runge Hollow Lake	Runge Hollow Lake
1642700	1	Esofea Pond	Esofea Pond
1643200	1	Un. Trib. to N. Fork Bad Axe ((13N5W, Sec. 3)	Unnamed
1643220	1	Trib to N. Fk Bad Axe River	Unnamed
1643250	1	Unnamed Stream	Unnamed
1643300	1	Unnamed Stream (29-1)	Unnamed
1643400	1	Spring Coulee Cr (16-5)	Unnamed
1643450	1	Unnamed Stream	Unnamed
1643500	1	Coon Creek	Coon Creek
1643500	2	Coon Creek	Coon Creek
1643600	1	Un. Trib. to Coon Creek @ Stoddard	Unnamed
1643700	1	Unnamed Stream	Unnamed
1643900	1	Local Water	Unnamed
1644000	1	Local Water	Unnamed
1644100	1	Un Lake	Unnamed
1644200	1	Un Trib. to Coon Creek (14N7W, Sec. 36)	Unnamed
1644300	1	Unnamed Stream	Unnamed
1644400	1	Unnamed Stream	Unnamed
1644500	1	Unnamed Stream	Unnamed
1644600	1	Wing Hollow Creek	Wing Hollow Creek
1644700	1	Un. Trib. to Coon Creek (14N6W, Sec. 19)	Unnamed
1644800	1	Un. Trib. to Coon Creek (N147W, Sec. 30)	Unnamed
1645000	1	Local Water	Unnamed
1645100	1	Hohlfeld Coulee Creek (20-16)	Hohlfeld Coulee Creek
1645200	1	Hasley Creek	Hasley Creek
1645300	1	Un. Trib. to Coon Creek (14N6W, Sec. 27)	Unnamed

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1645400	1	Lindahl Creek	Lindahl Creek
1645500	1	Un. Trib. to Coon Creek (14N6W, Sec. 24)	Unnamed
1645600	1	Un. Trib. to Coon Creek (14N6W, Sec. 12)	Unnamed
1645700	1	Un. Trib. to Coon Creek (14N6W, Sec. 12)	Unnamed
1645800	1	Un. Trib. to Coon Creek (mouth @ Coon Valley)	Unnamed
1645900	1	Creek 7-3	Unnamed
1646000	1	Rundahl Creek	Unnamed
1646100	1	Spring Coulee Creek	Spring Coulee Creek
1646200	1	Poplar Creek	Unnamed
1646300	1	Timber Coulee Creek	Timber Coulee Creek
1646300	2	Timber Coulee Creek	Timber Coulee Creek
1646300	3	Timber Coulee Creek	Timber Coulee Creek
1646500	1	Rullands Coulee Creek	Rullands Coulee Creek
1647300	1	Timber Coulee Pond	Timber Coulee Pond
1648100	1	Chipmunk Creek (3-6)	Unnamed
1648200	1	Creek 2-4	Unnamed
1648200	2	Creek 2-4	Unnamed
3000025	1	Creek 6-1c	Unnamed
3000026	1	Creek 25-11	Unnamed
3000027	1	Creek 5-10	Unnamed
3000040	1	Unnamed Pierce Hill Tributary	Unnamed
3000060	1	Local Water	Unnamed
3000106	1	Un. trib. to Springville Br. Bad Axe (13N5W, Sec. 29)	Unnamed
3000228	1	Creek 2-3 (Pine Hollow Creek)	Unnamed
3000300	1	Trib to the Springville Br. of the Bad Axe River	Unnamed
3000414	1	Jersey Valley Creek	Unnamed
5027748	1	Unnamed Stream	Unnamed
5027757	1	Unnamed Stream	Unnamed
5027772	1	Unnamed Stream	Unnamed
5027772	2	Unnamed Stream	Unnamed
5027795	1	Unnamed Stream	Unnamed
5027943	1	Unnamed Stream	Unnamed
5027972	1	Unnamed Creek	Unnamed
5027983	1	Unnamed Stream	Unnamed

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5027989	1	Un. Trib. to Hohlfield Coulee Creek (14N6W, Sec. 15)	Unnamed
5028025	1	Unnamed Stream	Unnamed
5028030	1	Unnamed Stream	Unnamed
5028033	1	Unnamed Stream	Unnamed
5028040	1	Un. Trib. to Timber Coulee Creek (14N 4 W, sec. 10)	Unnamed
5028049	1	Unnamed Stream	Unnamed
5028081	1	Unnamed Stream	Unnamed
5028081	2	Unnamed Stream	Unnamed
5028085	1	Unnamed Stream	Unnamed
5028105	1	Unnamed Stream	Unnamed
5028126	1	Un. Trib. to Hohlfield Coulee Creek (14N6W, Sec. 16)	Unnamed
5028163	1	Unnamed Stream	Unnamed
5028173	1	Unnamed Stream	Unnamed
5028229	1	Unnamed Stream	Unnamed
5028240	1	Unnamed Stream	Unnamed
5028254	1	Un. Trib. to Spring Coulee Creek (14N5W, Sec. 13)	Unnamed
5028259	1	Unnamed Stream	Unnamed
5028288	1	Un. Trib. to Chipmunk Creek	Unnamed
5028316	1	Unnamed Stream	Unnamed
5028320	1	Unnamed Stream	Unnamed
5028332	1	Local Water	Unnamed
5028350	1	Unnamed Stream	Unnamed
5028368	1	Unnamed Stream	Unnamed
5028376	1	Local Water	Unnamed
5028392	1	Local Water	Unnamed
5028412	1	Un. Trib. to Coon Creek (14N6W, Sec. 20)	Unnamed
5028434	1	Un. trib. to Timber Coulee Creek (14N4W, Sec. 9)	Unnamed
5028439	1	Unnamed Stream	Unnamed
5028458	1	Local Water	Unnamed
5028467	1	Local Water	Unnamed
5028470	1	Un. Trib. to Coon Creek (14N7W, Sec. 24)	Unnamed
5028494	1	Local Water	Unnamed
5028496	1	Local Water	Unnamed
5028505	1	Unnamed Stream	Unnamed

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5028515	1	Local Water	Unnamed
5028521	1	Local Water	Unnamed
5028525	1	Local Water	Unnamed
5028527	1	Un. Trib. to Spring Coulee Creek (14N5W, Sec. 10)	Unnamed
5028556	1	Local Water	Unnamed
5028557	1	Local Water	Unnamed
5028589	1	Unnamed Trib to Hohlfeld Coulee Cr	Unnamed
5028591	1	Unnamed Stream	Unnamed
5028599	1	Un. Trib. to Spring Coulee Creek (14N4W, Sec. 19)	Unnamed
5028605	1	Unnamed Stream	Unnamed
5028610	1	Local Water	Unnamed
5028615	1	Local Water	Unnamed
5028622	1	Unnamed Stream	Unnamed
5028623	1	Un. Trib. to Spring Coulee Creek trib.	Unnamed
5028624	1	Unnamed Stream	Unnamed
5028629	1	Un. Trib. to Timber Coulee Creek ( 14N4W, Sec. 16)	Unnamed
5028644	1	Unnamed Stream	Unnamed
5028650	1	Local Water	Unnamed
5028664	1	Local Water	Unnamed
5028671	1	Un. Trib. to Spring Coulee Creek (14N5W, Sec. 23)	Unnamed
5028711	1	Unnamed Stream	Unnamed
5028729	1	Un. Trib. to Seas Branch Trib.	Unnamed
5028733	1	Un. trib. to Spring Coulee Creek (14N4W, Sec. 30)	Unnamed
5028739	1	Local Water	Unnamed
5028747	1	N. Fork Bad Axe trib. (14N5W, Sec. 34)	Unnamed
5028759	1	Local Water	Unnamed
5028766	1	Local Water	Unnamed
5028813	1	Un. Trib. to Coon Creek (mouth @ Lietke Ln.)	Unnamed
5028833	1	Local Water	Unnamed
5028847	1	Unnamed Stream	Unnamed
5028850	1	Local Water	Unnamed
5028863	1	Unnamed Stream	Unnamed
5028866	1	Unnamed Stream	Unnamed
5028870	1	Un. Trib. to Lindhahl Creek	Unnamed
5028881	1	Local Water	Unnamed

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5028892	1	Local Water	Unnamed
5028904	1	Local Water	Unnamed
5028912	1	Un. Trib. to Coon Creek (14N6W, Sec. 32)	Unnamed
5028926	1	Unnamed Stream	Unnamed
5028953	1	Local Water	Unnamed
5028973	1	Local Water	Unnamed
5028995	1	Local Water	Unnamed
5029009	1	Un. Trib. to N. Fork Bad Axe trib. (13N5W, Sec. 7)	Unnamed
5029015	1	Un. Trib. to Coon Creek (14N7W, Sec. 35)	Unnamed
5029017	1	Un. Trib. to Mississippi (14N7W, Sec. 33)	Unnamed
5029019	1	Local Water	Unnamed
5029028	1	Unnamed Stream	Unnamed
5029035	1	Local Water	Unnamed
5029037	1	Unnamed Stream	Unnamed
5029041	1	Unnamed Stream	Unnamed
5029044	1	Un. trib. to N. fork. Bad Axe (13N5W, Sec. 7)	Unnamed
5029047	1	Local Water	Unnamed
5029086	1	Local Water	Unnamed
5029092	1	Local Water	Unnamed
5029102	1	Unnamed Stream	Unnamed
5029107	1	Unnamed Stream	Unnamed
5029117	1	Local Water	Unnamed
5029124	1	Local Water	Unnamed
5029143	1	Unnamed Stream	Unnamed
5029170	1	Local Water	Unnamed
5029175	1	Un. Trib. to N. Fork Bad Axe (13N4W, Sec. 6)	Unnamed
5029183	1	Local Water	Unnamed
5029186	1	Unnamed Trib to Weister Cr	Unnamed
5029189	1	Local Water	Unnamed
5029192	1	Unnamed Stream	Unnamed
5029194	1	Un. trib. to N. Fork Bad Axe (13N6W, Sec. 17)	Unnamed
5029198	1	Un. trib. to N. fork Bad Axe (13N6W,Sec. 22)	Unnamed
5029209	1	Un. trib. to N. Fork Bad Axe (14N6W, Sec. 23)	Unnamed
5029214	1	Local Water	Unnamed
5029215	1	Local Water	Unnamed

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5029230	1	Local Water	Unnamed
5029245	1	Un. Trib. to N. Fork Bad Axe (14N5W, Sec. 1)	Unnamed
5029258	1	Local Water	Unnamed
5029259	1	Local Water	Unnamed
5029262	1	Un. Trib. to N. Fork Bad Axe (14N5W, Sec. 8)	Unnamed
5029264	1	Local Water	Unnamed
5029274	1	Local Water	Unnamed
5029301	1	Un. Trib. to N. Fork Bad Axe (14N5W, Sec. 11)	Unnamed
5029349	1	Local Water	Unnamed
5029398	1	Local Water	Unnamed
5029399	1	Local Water	Unnamed
5029414	1	Unnamed Stream	Unnamed
5029423	1	Local Water	Unnamed
5029430	1	Unnamed Stream	Unnamed
5029430	2	Unnamed Stream	Unnamed
5029431	1	Local Water	Unnamed
5029432	1	Unnamed	Unnamed
5029448	1	Local Water	Unnamed
5029474	1	Local Water	Unnamed
5029496	1	Unnamed	Unnamed
5029513	1	Local Water	Unnamed
5029519	1	Local Water	Unnamed
5029534	1	Local Water	Unnamed
5029538	1	Unnamed Stream	Unnamed
5029598	1	Local Water	Unnamed
5029679	1	Unnamed Stream	Unnamed
5029749	1	Melancthon Creek Headwaters	Unnamed
5029758	1	Unnamed Stream	Unnamed
5029763	1	Local Water	Unnamed
5029791	1	Unnamed	Unnamed
5029795	1	Unnamed Stream	Unnamed
5029799	1	Unnamed Stream	Unnamed
5029850	1	Un. trib. to Springville Br. Bad Axe (13N6W, Sec. 24)	Unnamed
5029869	1	Local Water	Unnamed
5029898	1	Unnamed Stream	Unnamed

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5029917	1	Unnamed Stream	Unnamed
5029941	1	Unnamed Stream	Unnamed
5029957	1	Unnamed Stream	Unnamed
5029971	1	Unnamed Stream	Unnamed
5029992	1	Unnamed Stream	Unnamed
5030038	1	Unnamed Stream	Unnamed
5030047	1	Unnamed Stream	Unnamed
5030065	1	Unnamed Stream	Unnamed
5030087	1	Unnamed Stream	Unnamed
5030107	1	Unnamed Stream	Unnamed
5030165	1	Unnamed Stream	Unnamed
5030169	1	Unnamed Stream	Unnamed
5030332	1	Unnamed Trib to S Fk Bad Axe River	Unnamed
5030353	1	Unnamed Stream	Unnamed
5030435	1	Unnamed Stream	Unnamed
5030597	1	Unnamed Stream	Unnamed
5030654	1	Unnamed Stream	Unnamed
5030661	1	Tributary to Reads Creek	Unnamed
5030851	1	Unnamed Stream	Unnamed
5030862	1	Unnamed Stream	Unnamed
5030908	1	Unnamed Stream	Unnamed
5030941	1	Unnamed Stream	Unnamed
5030946	1	Unnamed Stream	Unnamed
5031025	1	Unnamed Stream	Unnamed
5031074	1	Unnamed Stream	Unnamed
5031111	1	Unnamed Stream	Unnamed
5031125	1	Unnamed Stream	Unnamed
5031129	1	Unnamed Stream	Unnamed
5031239	1	Unnamed Stream	Unnamed
5031240	1	Unnamed Stream	Unnamed
5031278	1	Unnamed Stream	Unnamed
5031407	1	Unnamed Stream	Unnamed
5031484	1	Local Water	Unnamed
5031488	1	Unnamed Stream	Unnamed
5564043	1	Unnamed adjacent to Mississippi River Reach 4	Unnamed



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5564972	1	Local Water	Unnamed
5565006	1	Local Water	Unnamed
5565099	1	Local Water	Unnamed
5565520	1	Local Water	Unnamed
5565831	1	Local Water	Unnamed
5565973	1	Local Water	Unnamed
5566093	1	Local Water	Unnamed
5566289	1	Local Water	Unnamed
5567795	1	Local Water	Unnamed
5567911	1	Local Water	Unnamed
5568026	1	Local Water	Unnamed
5568592	1	Local Water	Unnamed
5568599	1	Local Water	Unnamed
5568753	1	Local Water	Unnamed
5568828	1	Local Water	Unnamed
5569125	1	Local Water	Unnamed
5569189	1	Local Water	Unnamed
5569272	1	Local Water	Unnamed
5569390	1	Local Water	Unnamed
5569418	1	Local Water	Unnamed
5569442	1	Local Water	Unnamed
5569477	1	Local Water	Unnamed
5569769	1	Local Water	Unnamed
5588266	1	Unnamed	Unnamed
5588427	1	Local Water	Unnamed
5591094	1	Local Water	Unnamed

### Lab Account Codes

Account Code	Description	Start Date	End Date
WT107	Watershed Special Projects	5/27/2009	6/30/2010

### Forms

Form Code	Form Name
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### Methods

Method Code	Method Description
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### Fieldwork Events

## Wisconsin Department of Natural Resources SWIMS Project Summary

Start Date	Status	Field ID	Station ID	Station Name
9/16/2008 12:15	COMPLETE	SB3	10008977	Springville Branch Station #1 826' D/S From Fence
8/11/2009 11:15	COMPLETE	SB1	10016658	Springville Branch - Barber Driveway Bridge Dwnstrm Ofwwtp
8/11/2009 14:30	COMPLETE	SB2	10029066	Springville Branch - Upstream of excavator parking lot/crossing
8/12/2009 10:35	COMPLETE	BA3	10008977	Springville Branch Station #1 826' D/S From Fence
8/12/2009 11:20	COMPLETE	BA2	10008980	Springville Branch Station #2 Vikemyr Rd.
8/12/2009 11:45	COMPLETE	BA1	10008982	Springville Branch Station #3 76' U/S From Bridge On Cth B

### Documents

Title	Description	Author	Published	Comments
SPRINGVILLE BRANCH AND VIROQUA BUDGET		Oldenburg	2/25/2009	

### Budget

#### Combined Budgets:

#### Combined WSLH:

Combined Total: \$0.00

### Funding

Organization	Source	Type	Amount	Start Date	End Date
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