

***March 24, 2005  
Public Meeting***

Press Release

Elkhart County Commissioners Puterbaugh Creek - Heaton Lake  
Watershed Management Plan

Elkhart County Commissioners have received a \$60,000 Federal Fiscal Year 2002 205(j) Water Quality Planning Grant from the US Environmental Protection Agency for the development of a Watershed Management Plan for the Puterbaugh Creek - Heaton Lake Watershed. The Puterbaugh Creek - Heaton Lake Watershed encompasses an area of approximately 17 square miles. Its northern boundary extends into the State of Michigan and south to include the Heaton Lake and Puterbaugh Creek. This watershed study area encompasses nearly all of Osolo Township and the western portion of Washington Township.

A Joint Stakeholder Meeting is scheduled for 6:30 PM on Thursday, March 24, 2005 at Eastwood Elementary School located at 53215 CR 15 North, Elkhart, Indiana. The purpose of the meeting is to inform the public about the Watershed Management Plan Project and invite participation in the Watershed Planning process.

Questions concerning this meeting should be directed to Mr. Christopher J. Jeter at Lawson-Fisher Associates (574) 234-3167 or Ms. Kristine Krueger at the Elkhart County Commissioners Office (574) 535-6746.

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JOHN A. MIDDLETON, P.E.  
PIPER C. TITTLE, P.E.  
THOMAS S. SHARP, P.E.  
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JON E. RIEMKE, P.E.  
JEFFREY L. MCKEAN, P.E.  
RANDOLPH J. LINDLEY, P.E.  
SKY K. MEDORS, P.E.  
→ CHRISTOPHER J. JETER, P.E.  
DENNIS A. ZEBELL, P.E.  
BENJAMIN P. HOLDEN, P.E.  
DAN G. DELGADO, P.E.  
MARK H. FOSTER, P.E.  
CHARLES F. FARRELL, P.E.  
MICHAEL J. GUZIK, P.E.  
MICHAEL F. JOHNSTON, P.E.

March 7, 2005

Ms. Nancy Brown, Program Manager  
Elkhart County SWCD  
17746-B C.R. 34  
Goshen, IN 46528

RE: Elkhart County Commissioners  
Section 205(j) Watershed Management Plan Grant  
Puterbaugh Creek – Heaton Lake Watershed  
Watershed Steering Committee Meeting

Dear Ms. Brown:

The following letter is to inform you that a Watershed Steering Committee Meeting is scheduled for the above referenced project. The meeting is scheduled for 6:30 P.M. on Thursday, March 24, 2005, at Eastwood Elementary School located at 53215 County Road 15 North, Elkhart, Indiana. The purpose of the meeting is to inform the public about the Watershed Management Plan Project and invite participation in the Watershed Planning process.

Please do not hesitate to contact us should you have any questions or comments.

Very truly yours,

LAWSON-FISHER ASSOCIATES P.C.



Christopher J. Jeter, P.E.  
Civil Engineer

CJJ/bsa

c: Kristine Krueger  
John E. Fisher, P.E.  
Piper C. Tittle, P.E.

**Elkhart County Commissioners  
Section 205(j) Watershed Management Plan Grant  
Puterbaugh Creek – Heaton Lake  
Watershed Steering Committee Meeting  
March 24, 2005**

Ms. Kristine Krueger  
Elkhart County Government  
117 North Second Street  
Goshen, IN 46526

Mr. Robert Watkins  
Elkhart County Health Department  
4230 Elkhart Road  
Goshen, IN 46526

Mr. John Hulewicz  
Elkhart County Health Department  
4230 Elkhart Road  
Goshen, IN 46526

Mr. Denny Lyon  
Elkhart County Surveyor's Office  
4230 Elkhart Road  
Goshen, IN 46526

Mr. Blake Doriot  
Elkhart County Surveyor's Office  
4230 Elkhart Road  
Goshen, IN 46526

Mr. Steve Schweisberger  
Elkhart County Surveyor's Office  
4230 Elkhart Road  
Goshen, IN 46526

Ms. Nancy Brown  
Elkhart County SWCD  
17746-B C.R. 34  
Goshen, IN 46528

Ms. Bev Stevenson  
Elkhart County SWCD  
17746-B C.R. 34  
Goshen, IN 46528

Mr. Donald Parker  
2101 Grant Street  
Elkhart, IN 46514

Mr. Everett Lienhart  
22541 Lakeshore Drive  
Elkhart, IN 46514

Mr. Scott Robinia  
22880 Lakeshore Drive  
Elkhart, IN 46514

Mr. Bill West  
23170 Heaton Vista  
Elkhart, IN 46514

Ms. Bonnie Shanholt  
23197 Heaton Vista  
Elkhart, IN 46514

Mr. Don West  
52352 C.R. 13  
Elkhart, IN

Mary Sproull  
23173 Heaton Vista  
Elkhart, IN 46514

Mr. James Riley  
22886 Lake Shore Drive  
Elkhart, IN 46514

Mr. and Mrs. Ty Miller  
29893 Olin Court  
Elkhart, IN 46514

Mr. Ben Russo  
25600 County Road 4  
Elkhart, IN 46514

Mr. Kyle Hannon  
5 Kim Court  
Elkhart, IN 46514

Mr. Bob Stone  
23019 Lakeshore Drive  
Elkhart, IN 46514

**Elkhart County Commissioners  
Section 205(j) Watershed Management Plan Grant  
Puterbaugh Creek – Heaton Lake  
Watershed Steering Committee Meeting  
March 24, 2005**

Mr. Dave Simmons  
22892 Lakeshore Drive  
Elkhart, IN 46514-9571

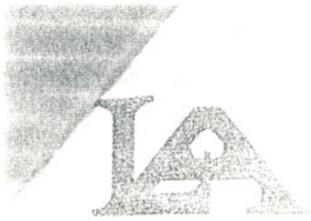
Mr. John Hardy  
54507 David Drive  
Elkhart, IN 46514

Mr. and Ms. Tom Davis  
52860 County Road 15  
Elkhart, IN 46514

Mr. Nathan Rice, Grant Project Manager  
Indiana Dept. of Environ. Mgmt.  
Watershed Management Section  
100 North Senate Avenue  
Indianapolis, IN 46204

Mr. Maynard Good  
23257 County Road 18  
Goshen, IN 46528

Mr. and Mrs. Shawn Nicodemus  
2600 Broadmoor Drive  
Elkhart, IN 46514



## MEMORANDUM

March 24, 2005

TO: LFA Project File 200406.00

FROM: Christopher J. Jeter, P.E. 

RE: Elkhart County Commissioners  
Section 205(j) Watershed Planning Grant  
Puterbaugh Creek – Heaton Lake Watershed Management Plan  
Stakeholder Meeting No. 4  
Public Meeting No. 5

The fourth stakeholder meeting for the above referenced project was conducted at Eastwood Elementary School on March 24, 2005. This meeting was the fifth in a series of eight (8) public meetings being conducted for the project. Copies of the agenda, sign-in sheet and handouts are included with this memorandum.

The meeting began with an introduction and a brief overview of the watershed planning project by Mr. Chris Jeter. Mr. Jeter provided an overview of the following three (3) items:

- Project Status
- Water Quality Results
- Future Tasks

After completing the overview and project updates, the stakeholders were given an opportunity to ask questions and/or comments on the items listed above and the 205(j) project. The following items were discussed:

- A few of the attendees were not present at the December 15, 2004 Stakeholder Meeting. Therefore, a brief overview of the water quality sampling procedures and results was presented by Mr. Jeter at this meeting as well.
- There was discussion about the dates on which the water quality sampling occurred. Some of the attendees felt that the sampling should have occurred over a greater time period instead of having three (3) of the four (4) sampling events take place in September 2004. Mr. Jeter explained that the timing of the sampling activities was strongly dependent upon the weather conditions and the water quality sampling was scheduled to occur between May 1, 2004 and October 31, 2004. In addition, Mr. Jeter explained that a wet-weather event was defined as a day of rain with expected precipitation amounts of greater than 0.5 inches and a dry-weather event was defined as at least five (5) consecutive days without rain.
- Mr. Jeter indicated that a database was obtained that contained a list of the National Pollutant Discharge Elimination System (NPDES) permits throughout the State of Michigan. Any Concentrated Animal Feeding Operation (CAFO) in the state is required to obtain an NPDES permit. The database did not contain any CAFO's in Cass County, Michigan. In addition, a GIS shapefile containing the locations of Confined Feeding Operations throughout the State of Indiana was downloaded from the Indiana Geological Survey website. This spatial data did not show any Confined Feeding Operations to be present in the Indiana portion of the watershed. A few of the attendees from the Purdue Extension and the Elkhart County Soil and Water Conservation District echoed these results by indicating that there is a limited amount of livestock present in the watershed.



- A map of the location of septic permits that were issued in Elkhart County between 1990 and 2001 was distributed to each of the attendees. Mr. Jeter indicated that the database containing the permits from 2001 to December 2004 is still in the process of being cleaned up for use in the GIS. In addition, Mr. Jeter stated that he had contacted the Cass County Health Department in Michigan and they indicated that they did not have a septic permit database.
- Some of the attendees expressed an interest in ways that they can contribute to the cleanup of the watershed. Representatives from the Elkhart County Soil and Water Conservation District suggested that these people may want to consider participating in the Hoosier Riverwatch program. Brochures outlining this program were available for the meeting attendees.
- Representatives from Lawson-Fisher and the meeting attendees had a brief discussion regarding the project brochure. Mr. Jeter summarized where the brochure had been distributed to date and he also indicated that the "Stormwater & the Construction Industry" outreach materials had been sent to the Elkhart County Homebuilders Association.
- Representatives from the Elkhart County Soil and Water Conservation District gave Mr. Jeter a copy of a memo summarizing their comments regarding the project brochure. These issues will be addressed prior to the next quarterly meeting.
- Mr. Jeter gave the attendees a brief overview of the project goals and tasks for the Heaton Lake – Puterbaugh Creek Watershed Management Plan. Mr. Jeter indicated that the portion of the Watershed Management Plan containing the Goals and Decisions is due in July 2005.
- The next Stakeholder meeting will be conducted in late June 2005. Lawson-Fisher Associates will be bringing a draft of the project Goals and Decisions for the attendees to provide comments prior to the next submittal to IDEM.



**Elkhart County Commissioners  
205(j) Watershed Planning Grant  
Puterbaugh Creek – Heaton Lake Watershed Management Plan**

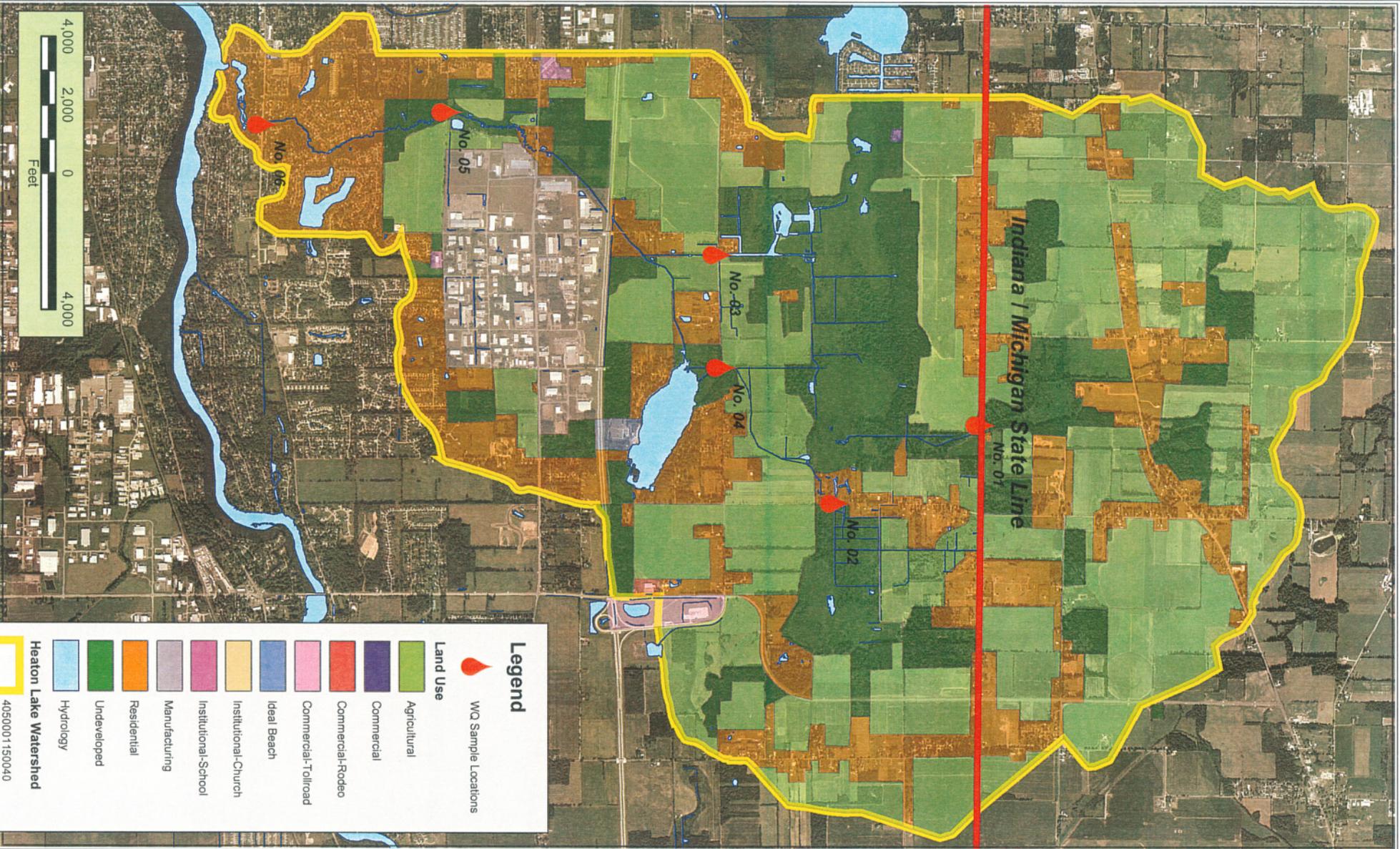
**Joint Stakeholder Committee Meeting**

**March 24, 2005 at 6:30 P.M.**

**Agenda**

1. Welcome and Introduction
2. Previous Stakeholder Meeting Issues
  - *Water Quality Testing*
  - *Watershed and Sampling Location Maps*
  - *Septic Permit Locations*
  - *Project Brochure and Outreach Materials*
3. Puterbaugh Creek – Heaton Lake Watershed Management Plan Project
  - *Planning Tasks*
  - *Schedule*
4. Conclusion
5. Discussion
6. Future Meetings





**Legend**

- WQ Sample Locations
- Land Use**
  - Agricultural
  - Commercial
  - Commercial-Road
  - Commercial-Tollroad
  - Ideal Beach
  - Institutional-Church
  - Institutional-School
  - Manufacturing
  - Residential
  - Undeveloped
  - Hydrology
- Heaton Lake Watershed  
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Elkhart County 205(j) Grant  
 Puterbaugh Creek - Heaton Lake  
 Watershed Management Plan

Water Quality Sampling Locations



**LAWSON-FISHER  
 ASSOCIATES P.C.  
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**Figure 8**

200406.00

Jan. 2005

### **Acronyms and Abbreviations**

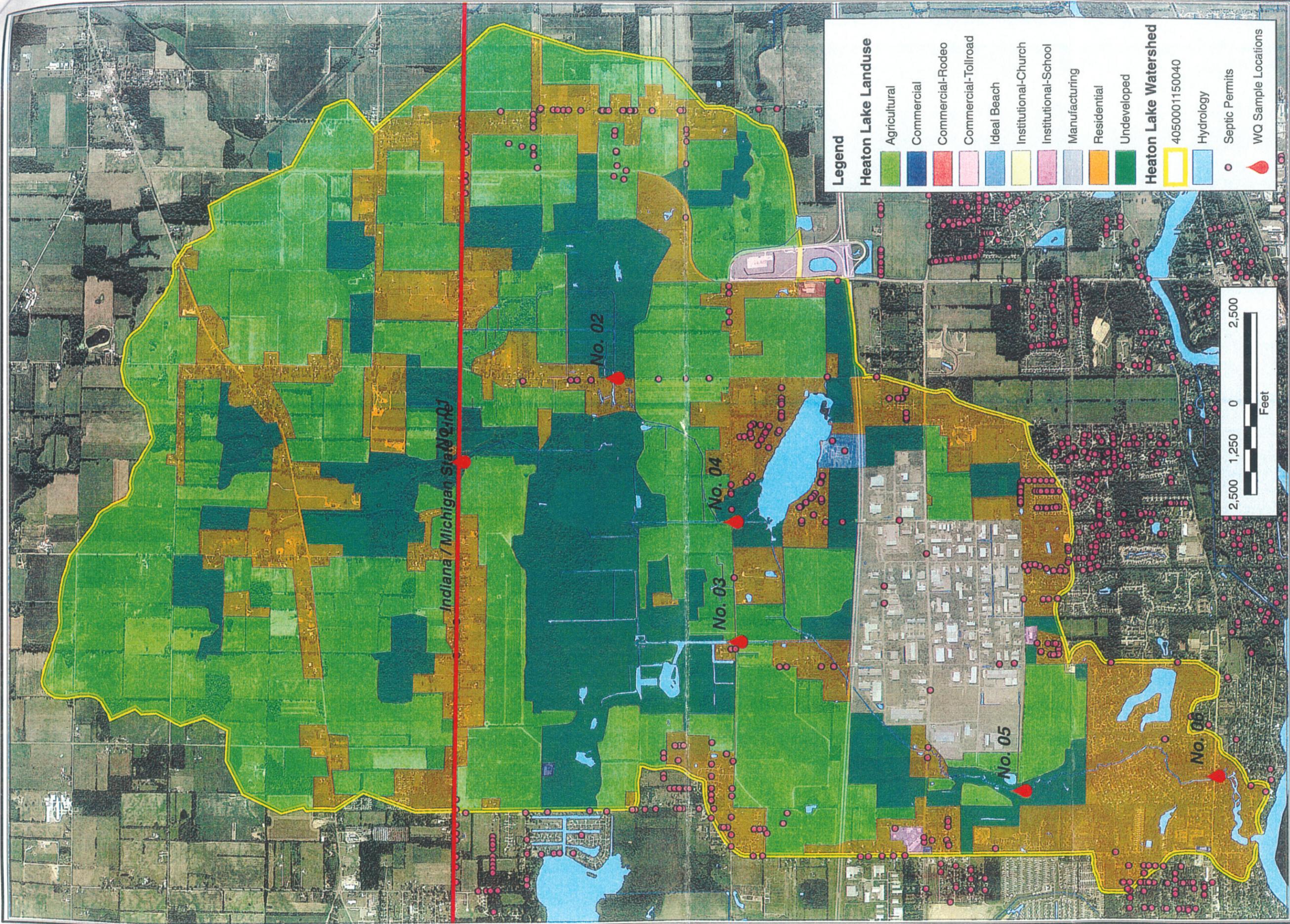
BMP – Best Management Practice  
CFU – Colony Forming Units  
Cond. – Conductivity  
DO – Dissolved Oxygen  
*E. Coli* – Escherchia coli  
MBAS – Surfactants  
Mg/L – milligrams per liter  
mL – milliliters  
TDS – Total Dissolved Solids  
TKN – Total Kjeldahl Nitrogen  
TSS – Total Suspended Solids  
 $\mu\text{S/cm}$  – microsiemens per centimeter

### **Puterbaugh Creek – Heaton Lake Water Quality Sampling Locations**

<i>Site #</i>	<i>Location</i>	<i>Stream Name</i>
1	State Line Road	Rhineheart Lateral
2	County Road 15	Kindig/Kellog
3	County Road 4	Mather Ditch
4	County Road 4	Bishop Ditch
5	County Road 106	Puterbaugh Creek
6	Bristol Street	Puterbaugh Creek

**Table 9**  
**Elkhart County 205(j) Grant Project**  
**Water Quality Monitoring Results**

	Water Quality Guidelines				Ambient Temp. (°C)	Weather Condition	6 - 9	Varies by month	750 mg/L	5 mg/L	235 CFU/100 mL	Varies with pH and Temperature		Orthophosphorus (mg/L)	Total Phosphorus (mg/L)	TSS (mg/L)	MBAS (Surfactants) (mg/L)				
	No.	Sampling Location	Date	Time			pH	Water Temp. (°C)				Cond. (µS/cm)	TDS					Color	DO (mg/L)	DO (%)	E. Coli
Wet Weather Sample  0.98 inches	1	Rhineheart Lateral	6/10/2004			7.72	19.2	373	190	Light Brown	6.97	75.1	11000	1.8	0.3	2.5	<0.05	0.37	35	<0.1	
	2	Kindig/Kellog	6/10/2004	2:45 PM	21.7	Light Rain	7.22	21.3	210	107	Rust/Brown	1.35	15.1	1360	1.6	0.2	<0.1	<0.05	0.27	6	0.21
	3	Mather Ditch	6/10/2004	3:00 PM	21.7	Overcast	8.07	23.2	388	197	Clear	6.85	74.6	280	0.49	<0.05	<0.1	<0.05	<0.05	18	20
	4	Bishop Ditch	6/10/2004		21.7	Light Rain	7.57	20.5	361	184	Light Brown	3.88	43.8	1640	1.3	0.3	<0.1	<0.05	0.41	5	0.14
	5	Puterbaugh Creek	6/10/2004		21.7	Overcast	7.97	21.5	385	196	Clear	7.01	79.6	360	0.99	<0.05	<0.1	<0.05	0.24	8	<0.1
	6	Puterbaugh Creek	6/10/2004	3:00 PM	21.7	Overcast	8.08	21.2	396	201	Clear	7.95	89.2	900	1.1	0.4	0.12	<0.05	0.34	2	0.12
	Duplicate	Rhineheart Lateral	6/10/2004	2:25 PM		Light Rain	7.72	19.2	373	190	Light Brown	6.97	75.1	11000	1.8	0.4	2.5	<0.05	0.26	32	0.12
Trip Blank		6/10/2004											<1	0.72	0.2	0.23	<0.05	<0.1	<1	<0.1	
Wet Weather Sample  0.64 inches	1	Rhineheart Lateral	9/16/2004	7:30 AM	21.1	Sunny	8.4	18.6	430	300	Light Brown	4.7	50.6	21400	2.4	<0.05	0.39	0.12	0.46	24	0.13
	2	Kindig/Kellog	9/16/2004	8:00 AM	21.1	Sunny	7.6	19.2	420	320	Light Brown	0.26	2.8	1540	4.4	<0.05	<0.1	0.067	0.45	29	0.27
	3	Mather Ditch	9/16/2004	8:35 AM	21.1	Sunny	8.4	23.4	420	280	Clear	8.3	97.2	68	0.34	<0.05	<0.1	0.054	0.16	1	<0.1
	4	Bishop Ditch	9/16/2004	8:15 AM	21.1	Sunny	7.8	18.1	500	330	Light Green	1.92	16.6	450	0.71	<0.05	<0.1	0.13	0.24	4	<0.1
	5	Puterbaugh Creek	9/16/2004	8:55 AM	21.1	Sunny	8	17.6	500	310	Clear - Light Green	6.48	67.5	1100	<0.1	<0.05	0.13	0.055	0.2	<1	<0.1
	6	Puterbaugh Creek	9/16/2004	9:10 AM	21.1	Sunny	8.1	17.1	510	300	Clear - Light Green	6.98	72.8	3600	0.52	<0.05	0.18	0.054	0.22	3	<0.1
	Duplicate	Bishop Ditch	9/16/2004	8:15 AM	21.1	Sunny	7.8	18.1	480	300	Light Green	1.92	16.6	500	0.76	<0.05	<0.1	0.13	0.23	2	<0.1
Trip Blank		9/16/2004						7.9	<2				<1	<0.1	<0.05	<0.1	<0.05	<0.05	<1	<0.1	
Dry Weather Sample	1	Rhineheart Lateral	9/13/2004	9:00 AM	24.5	Sunny	8.1	14.9	580	370	Light Brown	7.27	72	700	3.2	<0.05	0.68	0.09	0.29	140	0.27
	2	Kindig/Kellog	9/13/2004	9:10 AM	24.5	Sunny	7.4	16.3	410	330	Light Brown	0.26	2.6	84	1.8	<0.05	<0.1	<0.05	0.24	8	0.27
	3	Mather Ditch	9/13/2004	9:40 AM	24.5	Sunny	8.2	22.1	410	280	Clear	9.9	113.5	11	0.23	<0.05	<0.1	<0.05	0.23	<1	0.2
	4	Bishop Ditch	9/13/2004	9:30 AM	24.5	Sunny	7.7	14.8	520	340	Yellowish - Green	1.12	10.9	230	0.62	<0.05	<0.1	0.15	0.23	2	0.1
	5	Puterbaugh Creek	9/13/2004	9:55 AM	24.5	Sunny	8	18.3	490	310	Clear	7.04	74.8	110	0.64	<0.05	<0.1	0.07	0.28	2	<0.1
	6	Puterbaugh Creek	9/13/2004	10:10 AM	24.5	Sunny	8	16.9	500	300	Clear	7.59	78.3	280	0.43	<0.05	0.15	0.074	0.21	12	<0.1
	Duplicate	Kindig/Kellog	9/13/2004	9:10 AM	24.5	Sunny	7.4	16.3	410	330	Light Brown	0.26	2.6	56	2.8	<0.05	<0.1	<0.05	0.24	5	0.2
Trip Blank		9/13/2004						<1	10				<1	<0.1	<0.05	<0.1	<0.05	0.13	<1	<0.1	
Dry Weather Sample	1	Rhineheart Lateral	9/21/2004	7:00 AM	15.6	Sunny	8.2	10.6	590	390	Light Brown	6.86	66.5	3400	0.86	<0.05	0.46	0.07	0.16	27	0.13
	2	Kindig/Kellog	9/21/2004	7:10 AM	15.6	Sunny	8.1	12.6	430	340	Brown	1.01	9.6	126	1.7	<0.05	<0.1	0.073	0.4	12	0.38
	3	Mather Ditch	9/21/2004	7:40 AM	15.6	Sunny	8.4	18.5	420	300	Clear	8.98	95.6	32	<0.1	<0.05	<0.1	0.077	0.12	<1	0.21
	4	Bishop Ditch	9/21/2004	7:30 AM	15.6	Sunny	8	12.4	450	330	Light Brown	2.46	21.5	118	1.1	<0.05	<0.1	0.1	0.19	2	0.21
	5	Puterbaugh Creek	9/21/2004	8:00 AM	15.6	Sunny	8.2	12.3	520	330	Light Green	7.84	73.2	580	0.22	<0.05	<0.1	0.087	0.24	1	0.16
	6	Puterbaugh Creek	9/21/2004	8:15 AM	15.6	Sunny	8.2	12.7	490	360	Clear - Light Green	8.47	79.7	420	0.34	<0.05	0.22	0.092	0.21	5	<0.1
	Duplicate	Rhineheart Lateral	9/21/2004	7:00 AM	15.6	Sunny	8.2	10.6	590	400	Light Brown	6.86	66.5	3800	0.78	<0.05	0.43	0.12	0.32	23	0.14
Trip Blank		9/21/2004						13.7	12				<1	<0.1	<0.05	<0.1	<0.07	<0.05	<1	<0.1	



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Figure 5

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March  
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Elkhart County 205(j) Grant  
 Puterbaugh Creek - Heaton Lake  
 Watershed Management Plan

Land Use Map