



Lake Water Quality Program 2006 Annual Report



**Lana Haslam
Lake Water Quality Program Co-ordinator
Environmental Planning Initiatives**

Partners



Lake Stewardship Groups

Lake Improvement Advisory Panel 2004-2006



City Councillors

Janet Gasparini

Eldon Gainer

Community Volunteers

- Austin Davey, Chair
- André Ferron
- Elin Maki-Flora
- Bernard Gervais
- Perry Kirkbride
- Graeme Spiers

Technical Experts

- John Gunn – LU/Coop Unit
- Bill Keller – MOE/Coop Unit
- David Pearson – LU/Coop Unit
- Paul Sajatovic - NDCA
- Ed Gardner – SDHU

Program Summary

- Spring Phosphorus Sampling
- Lake Stewardship Assistance Program
- Shoreline Home Visit Program
- Lake Report Card
- Living With Lakes Forum



Spring Phosphorus Sampling

- Six years of results
- Assessment of lake health
- Ministry of Environment database
- 44 lakes sampled



Lake Stewardship Assistance Program

Water Sampling

- ❖ McFarlane Lake
- ❖ Frenchman & Hanmer Lakes
- ❖ Kukagami Lake
- ❖ Trailsman Rod & Gun
- ❖ Windy Lake

Shoreline Clean Ups

- ❖ Richard Lake
- ❖ Whitewater Lake

Education & Information

- ❖ Minnow Lake Pamphlet
- ❖ McFarlane Lake Newsletters
- ❖ Trailsman Rod & Gun

Shoreline Planting

- ❖ Bennett Lake
- ❖ Fairbank Lake
- ❖ Skill Lake

Shoreline Home Visit Program



Lake Report Card

LAKE WATER QUALITY REPORT CARD										
LAKE NAME	BETHEL	FAIRBANK	HANNAH	LITTLE PANACHE	LONG	McCHARLES	McFARLANE	MIDDLE	MINNOW	NEPAHWIN
WATER	Phosphorus 10 year average. Increase in phosphorus will increase algae blooms. Algae detracts from recreational enjoyment and impacts drinking water sources.	64.8 µg/L	6.1 µg/L	6.8 µg/L	14.1 µg/L	8.1 µg/L	23.7 µg/L	12.4 µg/L	6.7 µg/L	39.4 µg/L
	Value µg/L (micrograms per litre)									
	Clarity Secchi disk depth is a measure of water clarity. Higher Secchi readings indicate clearer water while lower readings indicate turbid or coloured water. Clarity is affected by algae, soil particles and other suspended materials.	1.7m	8.1m	4.5m	3.5m	5.9m	4.2m	3.1m	3.8m	0.9m
	Value (meters)									
LAND	Public Access Public parks, beaches and boat launches are important to the quality of life of the community and for the enjoyment of our lakes.	No public access	Parks & Beaches: Fairbank Provincial Park Boat Launches: Fairbank Provincial Park and Fairbank Lake Resort	No public access	Parks & Beaches: No public beach Boat Launches: Public boat launch	Parks & Beaches: Unsupervised public beach by Kantola Road. Boat Launches: Public boat launch at Kantola Road and off Moxiem Landing Road	Parks & Beaches: Centennial Park Boat Launch: Off Graham Road on the Vermilion River next to Centennial Park	Parks & Beaches: No public beach Boat Launches: Public boat launch accessed from Southlane Road	No public access	Parks & Beaches: Minnow Lake Waterfront Park Boat Launches: No public boat launch
	Natural Shoreline Development Shoreline vegetation filters runoff, reduces erosion, absorbs nutrients, provides flood control, shade and habitat. It also has aesthetic appeal and protects property values.	95%	95%	95%	95%	75%	95%	75%	80%	55%
	Percentage of naturally vegetated shorelines									
FISH	Fish Species Definition: The percentage of fish species is the expected number of fish divided by the actual number of fish species caught.	Brown bullhead, golden shiner, Iowa darter, Yellow Perch, Northern Pike and White sucker	Burntose minnow, Cisco (lake herring), Iowa darter, Lake trout, Lake whitefish, Logperch, Ninespine stickleback, Northern pike, Pumpkinseed, Rock bass, Smallmouth bass, Spoonhead sculpin, Spottail shiner, Walleye, Whitesucker and Yellow perch	Brown bullhead, Iowa darter, Northern pike, Pumpkinseed, Smallmouth bass and Yellow perch	Burntose minnow, Brown bullhead, Cisco (lake herring), Northern pike, Pumpkinseed, Rainbow smelt, Rock bass, Slimy sculpin, Smallmouth bass, White sucker and Yellow perch	Brown bullhead, Cisco (lake herring), Common shiner, Creek chub, Golden shiner, Iowa darter, Largemouth bass, Logperch, Northern pike, Pumpkinseed, Smallmouth bass, Spottail shiner, Walleye, White sucker and Yellow perch	No data available	Brown bullhead, Cisco (lake herring), Common shiner, Emerald shiner, Largemouth bass, Northern pike, Pumpkinseed, Smallmouth bass, Spottail shiner, Walleye, Whitesucker and Yellow perch	Brown bullhead, Iowa darter, Northern pike, Pumpkinseed, Smallmouth bass, Walleye and Yellow perch	Brown bullhead, Iowa darter, Northern pike, Pumpkinseed, Smallmouth bass, Walleye and Yellow perch
	Value: Percentage of fish species									

Living With Lakes Forum



Looking Ahead

- Spring Phosphorus Sampling
- Natural shoreline demonstration site
- Lake Report Card
- Shoreline Home Visit Program

