

Al Gore 9/25/96

- Environmental report card
 - Coordinate monitoring efforts
 - Guide decision-making
 - Account to the public



Report Card Goals

Environmental Baseline	Status
Decision-making Guide	ID problems Prioritize problems Geo-target problems ID threats ID remedial action groups
Public Accounting	Trends
Coordinate Monitoring	Information Inventory ID information gaps

Report Card Information

- Entire basin
 - Segments
 - Water uses
 - Causes
 - Sources
 - Metadata

WATER QUALITY REPORT CARD

[illegible]

2000 Assessment

[illegible]

Millers River

WATER QUALITY REPORT CARD

2000 Assessment

[illegible]

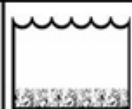
Millers River

WATER QUALITY REPORT CARD

2000 Assessment

SEGMENT	AQUATIC LIFE							RECREATION		FISH EDIBILITY
	BIOLOGY	CHEMISTRY	NUTRIENTS	TOXICS	SEDIMENTS	FLOW	HABITAT	BACTERIA	AESTHETICS	FISH TISSUE
MILLERS RIVER										
to Whitney pond	3					1				2
to Winchendon WWTF		4		4		4		1	1	2
to Otter River	3	3	3	1		4		1	2	2
to South Royalston	3	3	3	2	4	4	3		2	2
to Orange Center	4	2	2	4	2	2			2	2
to Erving WWTF	4	2	2	4	1	2			2	2
to Connecticut River	3	3	3	4	1	4	3		2	2
OTTER RIVER										
to Gardner WWTF	4	2	2				3	1	2	1
to Seaman Paper Co.	4	3	3	1	2	4	3		2	2
to Millers River	4	2	2	4	4	2	3		2	2
TULLY RIVER										
East Branch	4	1					3		2	1
Boyce Brook	3	1							2	1
West Branch	4	1					3		2	1
Lawrence Brook	4	1					3		2	1
Main Stem	3								2	1

COLOR KEY:
 GOOD
 CONCERN
 FAIR
 POOR
 N/A



BACTERIA

AESTHETICS

FISH TISSUE

SOURCES OF POLLUTION

[illegible]

Millers River

WATER QUALITY REPORT CARD

2000

[illegible]

Nashua River Watershed Water Quality 1973	Above Clinton WWTP	Below Clinton WWTP	Above Leominster WWTP	Below Leominster WWTP	Above Pepperell Pond	Below Pepperell Pond	Pepperell Pond	Nissitissit and Squannacook
I. Ecological Health	35	35	20	35	30	35	35	90
A. Biology	NS	NS	NS	NS	NS	NS	NS	S
B. Chemistry	NS	NS	NS	NS	NS	NS	NS	S
Baseline	NS	NS	NS	NS	NS	NS	NS	S
Nutrients	NS	NS	NS	NS	NS	NS	NS	S
Toxics	NS	NS	NS	NS	NS	NS	NS	S
C. Sediments	NA	NA	NA	NA	NA	NA	NS	NA
D. Hydrology	S	S	S	S	S	S	S	S
E. Habitat	NS	NS	NS	NS	NS	NS	NS	S
II. Public Health	65	65	30	30	30	50	40	80
A. Bacteria	NS	NS	NS	NS	NS	NS	NS	P
Swimming	NS	NS	NS	NS	NS	NS	NS	P
Boating	NS	NS	NS	NS	NS	NS	NS	S
B. Aesthetics	S	S	NS	NS	NS	P	NS	S
C. Toxics in Fish	NA	NA	NA	NA	NA	NA	NA	NA

Water Quality 1993

	Above Clinton WWTP	Below Clinton WWTP	Above Leominster WWTP	Below Leominster WWTP	Above Pepperell Pond	Below Pepperell Pond	Pepperell Pond	Nissitissit and Squannacook
I. Ecological Health	90	75	65	70	70	90	90	85
A. Biology	S	P	NS	NA	NS	S	NA	S
B. Chemistry	S	P	NS	NA	NS	S	S	S
Baseline	S	S	S	S	S	S	S	T(pH)
Nutrients	S	P	S	S	S	S	S	S
Toxics	?	P	NS	NA	NS	S	S	S
C. Sediments	NA	NA	NA	NA	NA	NA	NA	NA
D. Hydrology	S	S	S	S	S	S	?	S
E. Habitat	S	S	P	S	S	S	?	S
II. Public Health	95	70	50	95	80	95	75	95
A. Bacteria	S	NS	NS	S	P	S	S	S
Swimming	S	NS	NS	S	P	S	S	S
Boating	S	S	NS	S	S	S	S	S
B. Aesthetics	S	S	P	S	S	S	S	S
C. Toxics in Fish	S	S	NA	NA	S	S	NS	S

Millers River Sampling Plan

	Millers River Mainstem					Otter River			Beaver Brook	Priest Brook	West Branch Tully Brook	East Branch Tully Brook	Lawrence Brook	Tully River
	MA 35-01	MA 35-02	MA 35-03	MA 35-04	MA 35-05	MA 35-06	MA 35-07	MA 35-08	MA 35-09	MA 35-10	MA 35-11	MA 35-12	MA 35-13	MA 35-14
I. Ecological Health	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
A. Biology	NA	NA	NA	NA	NA	T	NS	NS	NA	NA	S	NS	NS	NA
B. Chemistry	S	NS	NA	NA	NA	S	NS	NS	NA	NS	NA	NA	NA	NA
Baseline	T (pH)	NA	NA	NA	NA	T (DO)	NS	NS (DO)	NA	NA	NA	NA	NA	NA
Nutrients	S	NA	NA	NA	NA	S	NS	NS	NA	NA	NA	NA	NA	NA
Toxics	T	NS	NA	T	S	S	NA	NS	NA	NS	NA	NA	NA	NA
C. Sediments	NA	NA	NS	NS	NS	NA	NA	NS	NA	NA	NS	NS	NS	NA
D. Hydrology	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
E. Habitat	NA	NA	NA	NA	NA	S	S	S	NA	NA	S	S	S	NA
II. Public Health	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
A. Bacteria	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Swimming	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boating	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B. Aesthetics	NA	NA	NA	NA	NA	S	NA	NS	NA	NA	NA	NA	NA	NA
C. Toxics in Fish	NS	NS	NS	NS	NS	S	S	NS	NS	NS	NS	NS	NS	NS

	305b Report Recommendations
	Additional SMART Recommendations

Report Card Summary

Status	Color codes / Response indicators for water uses
ID problems	Colors/ Causes card
Prioritize problems	View Columns
Geo-target problems	View Rows
ID threats	Color coded in yellow
ID remedial action groups	Indicators / Sources card
Trends	Multiple years / indicators better than uses
Information Inventory	Metadata card
ID Data gaps	

Report Card Uses

- Four page 305b report
- Water quality managers
- Group discussions (planning)
- Priorities for grant funding
- Coordinating with other monitoring groups
- Outreach (general public)

SMART MONITORING

