MINNESOTA DEPARTMENT OF NATURAL RESOURCES

RIVER OR STREAM SURVEY
DATE(S) OF FIELD WORK 8/25, 8/26, 8/31/81

Initial Survey ☐
Resurvey XX

LEADER Richard Thompson
ASSISTANT(S) Steve Hirsch

NAME, LOCATION, AND FLOW CHARACTERISTICS

(1) Stream Name Wyman Creek
(2) Alternate Name(s) None
(3) Tributary Number S-2-57-3
(4) Counties St. Louis
(5) Watershed Name and Number St. Louis 1
(6) Sequence of Waterways to Basin To Partridge River to St. Louis River to Lake Superior to St. Lawrence River.
(7) Map(s) Used U.S.G.S. Quadrangle: Allen, Minn, 1962 (photo revised 1969)
(8) Length of Stream 9.4 miles (main stream plus west fork)
(9) Average Width – Upper Station .5 feet Lower Station 14.6 feet
(10) Mouth Location T. 58N R. 14W S. 4
(11) Flow at Mouth No Data cfs, Date
(12) Flow at Gaging Station – Minimum cfs Average cfs
(13) Location of Gaging Station
(14) Initial Source of Sustained Flow Springs in cedar-spruce bog, T. 59; R. 14; S. 11.
(15) Gradient 17.3 ft/mile
(16) Sinuosity 1.7

WATERSHED DESCRIPTION AND USE

(17) Description of Watershed (soil types, cover types, topography, land usage and ownership)

a) Entire watershed The area surrounding the creek varies between large flat bogs to rather flat forested terrain. Lowland cover is alder, shrubs and grasses some spruce and cedar. Upland is mainly birch, aspen and balsam. Soils are mainly sand and gravel. The creek skirts Erie Mining Company dump and #2 pit in the upper stretches.

b) Land adjacent to stream Ownerships 10% private, 35% Erie Mining, 45% federal, and 10% state. Vegetative cover is about 90% trees and shrubs, 10% open bogs.

GENERAL INFORMATION ON THE STREAM

(18) Reason for Survey Inventory purposes and to determine its suitability for improvement work.

(19) Previous Investigations and Surveys Survey September 11, 1968

(20) Special Problems or Conditions Beaver activity has caused siltation in several areas. Station #4 and below tributary #2 stream choked with filamentous algae and covered with iron precipitate.

(21) Sources of Pollution

Source	Loc. (mi. from mouth)	Substance discharged
Tributary #2	1.5 miles	Iron precipitate
Ground Water (natural)	7.5 miles	Iron precipitate

(22) Erosion

Type	Degree	Affected reach
None		

(23) Stream Alterations (dredging, channeling) — location and date None

(24) Dams and other obstructions (include beaver dams)

Type	Mi. from Mouth	Head	Length of Dam	Type of Control Structure	Use	Fish Barrier	Owner	Condition or Status
Beaver Dam	6.3	1.5'	Extensive	-	-	yes	-	Active
Beaver Dam	2.3	1'	6'	-	-	yes	-	Active
Beaver Dam	2.2	1'	8'	-	-	yes	-	Active
Beaver Dam	2.1	1'	6'	-	-	yes	-	Active
Beaver Dam	.9	2'	Extensive	-	-	yes	-	Active

(25) Use of Water: Fishing XX Recreation ____ Commercial navigation ____ Power ____ Irrigation ____
Livestock watering ____ Other (specify) Erie Mining is using stream to discharge water from old mine

(26) Access (location and ownership) The stream is accessible from Erie Mining, Forest Road #117 and County Road #110.

(27) Shoreline Developments Stream goes through Erie Mining's complex. At upper end, it skirts a mine dump and flows under a dike and road.

(28) Recreational Boating — a) Navigable reach None
b) Type of boating None

(29) Tributaries and Springs

Names and/or Tributary Numbers	Water Source	Bank (R or L)	Length Miles	Width at Mouth (feet)	Miles from Mouth	Flow (c.f.s.)	Stage (high, normal, low)	Temp. °F					Date
								Mouth		Source			
								Air	Water	Air	Water	Time	
S-2-57-3-1	Bog	R	1.6	-	.8	-	-	No Data					
S-2-57-3-2	Bog	R	.9	6'	1.5	2	Normal	77°	67°	77°	61°	M -2:20 S -3:00	8/26/81

Remarks

(30) Stream Physical Characteristics

a)	Station no.	1	1-a	*2	3
b)	Date	8/31/81	8/31/81	8/31/81	8/31/81
c)	Loc. (mi. from mouth)	.5	1.1	1.4	2
d)	Length of station	661 feet	100 feet	326 feet	775 feet
e)	% of station in:				
	Pools	7%	No	-	-
	Riffles and rapids	82%	Data	-	-
	Runs	11%		100%	100%
	Other (list)				
f)	Average width (ft.)	14.6'		3'	9.5'
g)	Average depth (ft.)	.7'		.6'	1'
h)	Flow (cfs)	Not Measurable		.4 cfs	9 cfs
i)	High water mark	1'above present		-	1'above present
j)	Present stream stage (high, normal, low)	Normal		Normal	Normal
k)	Banks:				
	Average height	1.5'		1.5'	1.5'
	Height range	1.5' - 3'		1' - 2'	1' - 3'
	Erosion (lt., mod., severe)	Light		Light	Light
	% grazed				
	% ditched or channeled				
l)	Shade[1]	Light		Heavy	Light
m)	Pools[2]				
	Average width	12.5'		N.A.	
	Width range				
	Average depth	1.4'			
	Maximum depth	1.8'			
	Type – No. of each				
	A				
	B				
	C				
	D	1			
	Bottom type – %[3]				
	Boulder	20%			
	Rubble	60%			
	Gravel	10%			
	Muck	10%			
n)	Riffles and rapids			N.A.	
	Average width	15.2'			
	Width range	6.1'- 22'			
	Average depth	.6'			
	Maximum depth	1.3'			
	Max. velocity range (fps)	No Information			
	Bottom type – %				
	Boulder	80%			
	Rubble	20%			

(30) Stream Physical Characteristics

a)	Station no.	4	5		
b)	Date	8/31/81	8/31/81		
c)	Loc. (mi. from mouth)	6.6	7.5		
d)	Length of station	275 feet	200 feet		
e)	% of station in:				
	Pools				
	Riffles and rapids	36%			
	Runs	64%			
	Other (list)		100%		
f)	Average width (ft.)	9.4	.5		
g)	Average depth (ft.)	.8	.1		
h)	Flow (cfs)	20.4	Not Measurable		
i)	High water mark	1' above present	Present Level		
j)	Present stream stage (high, normal, low)	Normal	Normal		
k)	Banks:				
	Average height	1.3'	.5'		
	Height range	1' - 1.5'	-		
	Erosion (lt., mod., severe)	Light	-		
	% grazed				
	% ditched or channeled				
l)	Shade[1]	Moderate	Heavy		
m)	Pools[2]				
	Average width				
	Width range				
	Average depth				
	Maximum depth				
	Type – No. of each				
	A				
	B				
	C				
	D				
	Bottom type – %[3]				
n)	Riffles and rapids				
	Average width	9.5'			
	Width range	-			
	Average depth	.5'			
	Maximum depth	.6'			
	Max. velocity range (fps)	No Data			
	Bottom type – %				
	Boulder	70%			
	Rubble	30%			

(30) Stream Physical Characteristics (continued)	1	1-a	*2	3
o) Runs:				
Average width	9.5'		3.2'	9.5'
Width range	6' - 14'		1.8' - 5.5'	6' - 14'
Average depth	1'		.6'	1'
Maximum depth	1.5'		1'	1.5'
Max. velocity range (fps)	No Data		No Data	No Data
Bottom type – %				
Boulder	70%		5%	15%
Rubble	30%		15%	15%
Gravel			30%	10%
Sand			25%	10%
Muck			25%	50%
Other (describe)				
Average width				
Width range				
Average depth				
Maximum depth				
Max. velocity range (fps)				
Bottom type – %				
DATA PERTAINING TO SIMILAR REACH				
q) Location (mi. to mi.)	0 - 1	1 - 1.9	.6 - 2.3	1.9 - 5.1
r) Gradient (ft./mi.)	36 ft/mi	24 ft/mi	17 ft/mi	13 ft/mi
s) Sinuosity	1.3	1.2	1	1.3
t) Channel changes (slight, mod., exten.)	None	None	None	None

Remarks * Station #2 is located on the west channel of Wyman Creek. Location is measured from mouth.

[1]Shade:

light	0-25 percent shaded
moderate	26-75 percent shaded
heavy	over 75 percent shaded

[2]Pool types:

Type A – Good cover, 3 ft. or deeper
B – Good cover, less than 3 ft.
C – Poor cover, 3 ft. or deeper
D – Poor cover, less than 3 ft.

[3]Bottom types:

Ledge rock	– large mass of solid rock
Boulder	– over 10" in diameter
Rubble	– 3" to 10" in diameter
Gravel	– 1/8" to 3" in diameter
Sand	– less than 1/8" in diameter
Silt	– fine material with little grittiness
Clay	– compact, sticky material
Muck	– decomposed organic material, usually black
Detritus	– organic material composed of sticks, leaves, decaying plants, etc.
Marl	– calcareous material

(30) Stream Physical Characteristics (continued)		4	*5		
o)	Runs:				
	Average width	9.4'			
	Width range	8.5'-10'			
	Average depth	.9'			
	Maximum depth	1.3'			
	Max. velocity range (fps)	No Data			
	Bottom type – %				
	Boulder	60%			
	Rubble	40%			
	Other (describe)				
	Average width				
	Width range				
	Average depth				
	Maximum depth				
	Max. velocity range (fps)				
	Bottom type – %				
DATA PERTAINING TO SIMILAR REACH					
q)	Location (mi. to mi.)	5.1 - 6.7	6.7 - 7.7		
r)	Gradient (ft./mi.)	34 ft/mi	20 ft/mi		
s)	Sinuosity	1.3	1.1		
t)	Channel changes (slight, mod., exten.)	None	None		

Remarks * Station #5 stream is very small and disappears underground frequently.

[1]Shade:

light	0-25 percent shaded
moderate	26-75 percent shaded
heavy	over 75 percent shaded

[2]Pool types:

Type A – Good cover, 3 ft. or deeper
B – Good cover, less than 3 ft.
C – Poor cover, 3 ft. or deeper
D – Poor cover, less than 3 ft.

[3]Bottom types:

Ledge rock	– large mass of solid rock
Boulder	– over 10" in diameter
Rubble	– 3" to 10" in diameter
Gravel	– 1/8" to 3" in diameter
Sand	– less than 1/8" in diameter
Silt	– fine material with little grittiness
Clay	– compact, sticky material
Muck	– decomposed organic material, usually black
Detritus	– organic material composed of sticks, leaves, decaying plants, etc.
Marl	– calcareous material

(31) Characteristics of Water

a)	Station no.	1	1-a	2	3
b)	Date	8/25/81	8/25/81	8/25/81	8/25/81
c)	Loc. (mi. from mouth)	.5	1.1	1.4	2
d)	Length of station	661 feet	100 feet	325 feet	775 feet
e)	Time	11:30	2:00	12:30	10:00
f)	Air temp. °F.	71°	71°	71°	71°
g)	Water temp. °F.	66°	66°	63°	64°
h)	Color	Brown	Brown	Brown	Clear
i)	Cause of color	Iron Precipitate	Iron Precipitate	Iron Precipitate	
j)	Secchi disc. (ft.)				
FIELD DETERMINATIONS:					
	Diss. oxygen (ppm)	5 ppm	5 ppm	3 ppm	9 ppm
	Free carbon dioxide (ppm)	15 ppm	10 ppm	15 ppm	15 ppm
FIELD DETERMINATION OR LABORATORY ANALYSIS (Indicate by F or L)					
	Total alkalinity (ppm)	103 ppm	103 ppm	137 ppm	103 ppm
	Conductivity (micromhos/cm) Chart	125 mic/cm	125 mic/cm	185 mic/cm	125 mic/cm
	pH	7	7	6.9	7.3
LABORATORY ANALYSIS					
	Total nitrogen (ppm)				
	NH_3 (ppm)				
	NO_2 (ppm)				
	NO_3 (ppm)				
	Total phosphorus (ppm)				
	Orthophosphates (ppm)				
	Sulfate ion (ppm)				
	Chloride ion (ppm)				
	B.O.D. (ppm)				
	or C.O.D. (ppm)				
	Turbidity (JTU)				
	Tot. diss. solids (ppm)				

Remarks Iron precipitate in suspension causing brownish colored water in Station #1 and 4. Some precipitate in 1-a and 2.

(31) Characteristics of Water

a)	Station no.	4	5		
b)	Date	8/25/81	8/25/81		
c)	Loc. (mi. from mouth)	6.6	7.6		
d)	Length of station	275 feet	200 feet		
e)	Time	12:30	11:00		
f)	Air temp. °F.	73°	69°		
g)	Water temp. °F.	63°	58°		
h)	Color	Orange	Clear		
i)	Cause of color	Iron Precipitate	-		
j)	Secchi disc. (ft.)				
FIELD DETERMINATIONS:					
	Diss. oxygen (ppm)	3 ppm	5 ppm		
	Free carbon dioxide (ppm)	No Test Taken	15 ppm		
FIELD DETERMINATION OR LABORATORY ANALYSIS (Indicate by F or L)					
	Total alkalinity (ppm)	137 ppm	120 ppm		
	Conductivity (micromhos/cm)	185 mic/cm	160 mic/cm		
	pH	7.1	6.8		
LABORATORY ANALYSIS					
	Total nitrogen (ppm)				
	NH_3 (ppm)				
	NO_2 (ppm)				
	NO_3 (ppm)				
	Total phosphorus (ppm)				
	Orthophosphates (ppm)				
	Sulfate ion (ppm)				
	Chloride ion (ppm)				
	B.O.D. (ppm)				
	or C.O.D. (ppm)				
	Turbidity (JTU)				
	Tot. diss. solids (ppm)				

Remarks _____

(32) Temperature Profile

Date	Location (miles from mouth)	Water Temp.	Air Temp.	Water Stage	Time	Cloud Cover
8/26/81	Station #1	67°	77°	Normal	13:30	P. Cloudy-Haze
8/26/81	Station #2	66°	77°	Below Normal	13:45	P. Cloudy-Haze
8/26/81	Tributary #2	67°	77°	Normal	14:20	P. Cloudy
8/26/81	Station #3	67°	77°	Normal	14:10	P. Cloudy
8/26/81	Station #4	63°	73°	Normal	12:30	P. Cloudy-Haze
8/26/81	Station #5	58°	69°	Normal	11:30	P. Cloudy-Haze

Remarks

(33) Biological Characteristics

a)	Station no.	1	1-a	2	3
b)	Date	8/25/81	8/25/81	8/25/81	8/25/81
c)	Loc. (miles from mouth)	.5	1.1	1.4	2
d)	Length of station	661 feet	100 feet	325 feet	775 feet

e) Aquatic plants or filamentous algae:[1]

Species	Abundance	Abundance	Abundance	Abundance
Water Moss	A			
Green Fruited Burreed	C			0
Floatingleaf Burreed	0			0
Cattail	P			
Filamentous Algae	C			
Water Smartweed		0		
Arrowhead		0		0
Large Yellow Waterlily		0		
Little Yellow Waterlily		R		
Water Starwort			0	0
Marsh Marigold				0

f) Distribution of aquatic plants **Filamentous algae throughout station #1. Most other vegetation scattered throughout quieter water close to banks.**

g) Common invertebrates: order or family (check blank if present)

No Data				

Remarks **Invertebrates were not sampled as it was too late in summer.**

[1]Plant or algae abundance:
- A – abundant
- C – common
- O – occasional
- R – rare
- P – present

(33) Biological Characteristics

a)	Station no.	4	5		
b)	Date	8/25/81	8/25/81		
c)	Loc. (miles from mouth)	6.6	7.5		
d)	Length of station	275 feet	200 feet		
e)	Aquatic plants or filamentous algae:[1]				
	Species	Abundance	Abundance	Abundance	Abundance
	Marsh Marigold	O			
	Green Fruited Burreed	C			
	Sedge spp	O			
	Filamentous algae	A			

f) Distribution of aquatic plants Filamentous algae distributed throughout Station #4. Other plants scattered.

g) Common invertebrates: order or family (check blank if present)

No Data				

Remarks Invertebrates not sampled as was too late in summer.

[1]Plant or algae abundance:
- A — abundant
- C — common
- O — occasional
- R — rare
- P — present

(34) Fishery Characteristics

a)	Station no.	1		1-a		2		3	
b)	Date	8/26/81		8/26/81		8/26/81		8/26/81	
c)	Loc. (miles from mouth)								
d)	Length of station	275 feet		50 feet		125 feet		300 feet	
e)	Gear	Battery powered low voltage Michigan Backpack Shocker. 12 volt D.C. input with 100 volt D.C. 100Hz output.							
f)	Amt. of sampling effort	15 minutes		*3 minutes		5 minutes		20 minutes	
g)	Species Present	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.
	White Sucker	11						14	
	Yellow Perch	1							
	Brook Trout	2						4	
	Northern Pike	1							
	Burbot	4							
	Northern Redbelly Dace			7 yy		19		70yy	
	Brook Stickleback					19			
	Central Mudminnow					6			
	Fathead					3			
	Mottled Sculpin							3	
	Johnny Darter							2	

h) Gamefish young-of-year

Species:								
Largemouth Bass	1							

Remarks *Water too deep for effective shocking.

(34) Fishery Characteristics

a)	Station no.	4		5					
b)	Date	8/26/81		8/26/81					
c)	Loc. (miles from mouth)								
d)	Length of station	100 feet							
e)	Gear	Michigan Back Pack 100 vlt.		No Electro-fishing Done					
f)	Amt. of sampling effort	5 minutes		-					
g)	Species Present	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.
	Brook Stickleback	8							
	Northern Redbelly Dace	14							
	Fathead	4							

h) Gamefish young-of-year

Species:

Remarks

Species / Total Length in Inches	Brook Trout	White Sucker	Yellow Perch	Northern Pike	Burbot				
3.0 – 3.4									
3.5 – 3.9									
4.0 – 4.4			1		1				
4.5 – 4.9									
5.0 – 5.4		1							
5.5 – 5.9									
6.0 – 6.4		3			1				
6.5 – 6.9		2			1				
7.0 – 7.4		2							
7.5 – 7.9		1							
8.0 – 8.4		7							
8.5 – 8.9	1	1							
9.0 – 9.4	3	6		1	1				
9.5 – 9.9	1	2							
10.0 – 10.4	1								
10.5 – 10.9									
11.0 – 11.4									
11.5 – 11.9									
12.0 – 12.4									
12.5 – 12.9									
13.0 – 13.4									
13.5 – 13.9									
14.0 – 14.9									
15.0 – 15.9									
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25.0 – 25.9									
26.0 – 26.9									
27.0 – 27.9									
28.0 – 28.9									
29.0 – 29.9									
30.0 – 30.9									
31.0 – 31.9									
32.0 – 32.9									
33.0 – 33.9									
34.0 – 34.9									
35.0 – 35.9									
Totals	6	25	1	1	4				

(37) Escape Cover for Gamefish

Similar reach No. Miles	Type[1] and Amount[2] of Cover
1 (0-1)	B-0; IV-0; LJ-S
1a(1-1.9)	IV-F
2 (.6-2.3)	OV-0
3 (1.9-5.1)	B-F; VB-F: LJ-0
4 (5.1-6.7)	VB-0
5 (6.7-7.7)	VB-0

[1]Cover types:
- LJ — log jam
- B — boulders
- OV — overhanging vegetation
- UB — undercut bank
- IV — instream vegetation

[2]Amount of cover:
- S — scarce
- O — occasional
- F — frequent

(38) Portion of Stream Suitable for Gamefish

Species	Suitable Reach (mi. to mi.) No. Miles
Brook Trout	1 (0-1) - Good
	1a(1-1.9) - Good
	2 (.6-2.3) West CHANNEL - Poor - low oxygen
	3 (1.9-5.1) - Very Good
	4 (5.1-6.7) - Poor - Low oxygen
	5 (6.7-7.7) - Poor

(39) History of Stream and Fishing Conditions

a) Comparisons with past investigations and surveys: The 1968 survey compares favorably to the data accumulated in this survey. Stream temperature runs 10-15 higher in this survey but could be due to lower evening temperatures common later in September when the 1968 survey was run. 1968 survey 1 trout for 350' sampled. 1981 survey 6 trout for 850' sampled. There is no note of iron precipitate in 1968 survey as was found in this survey.

b) History of fishing conditions: According to an individual that has fished the stream for many years mile (1.9-5.1) has been very good for brook trout with some success down stream. He said beaver activity has caused a decline in success.

(39) History of Stream and Fishing Conditions (continued)

c) Records of past management

Fish stocking

Year	Species	Size	Number or Pounds
1981	Brook Trout	Fingerling	38 lbs-19.7/lb; 749 fish
1981	Brook Trout	Yearling	242 lbs-3.3/lb; 799 fish
1980	Brook Trout	Yearling	190 lbs-4.2/lb; 800 fish
1979	Brook Trout	Fingerling	26 lbs-28.8/lb; 749 fish
1979	Brook Trout	Yearling	137 lbs-5.9/lb; 808 fish
1978	Brook Trout	Fingerling	16 lbs-46/lb; 736 fish
1978	Brook Trout	Yearling	110 lbs-7/lb; 770 fish
1977	Brook Trout	Fingerling	22 lbs-35/lb; 770 fish
1977	Brook Trout	Yearling	130 lbs-6/lb; 780 fish
1976	Brook Trout	Yearling	80 lbs-7/lb; 560 fish
1975	Brook Trout	Yearling	97 lbs-5.8/lb; 562 fish
1974	Brook Trout	Fingerling	22 lbs-45/lb; 990 fish

Rough fish removal

Year	Species	Size	Number or Pounds
None			

Special regulations

Habitat improvement:

Year Installed	Type and Amount	Location (mile to mile)	Cost	Present Condition
None				

(40) Discussion of Fishery

a) General characteristics Brook trout is the most commonly sought after fish in this stream. According to local reports fishing intensity is light and the quality of fishing has decreased in the past.

(40) Discussion of Fishery (continued)

b) Fish management problems Beaver activity has caused excessive siltation in similar reach #3. Stream bed is blocked with boulders in reach #1 and 1a blocking fish movement. Thick alder growth has limited access in reach #1a and upper section of #3. The lower section of reach #3 has been brushed providing good access.

(41) Ecological Classification of Waterway Similar reach #1, 1a, 3, 4 - Class I-C; similar reach #2, 5 Class I-D

(42) Summary Wyman Creek is a spring fed trout stream originating in a low cedar-spruce bog flowing 9.4 miles south into the Partridge River. The stream flows through the Erie Mining complex then into a low bog area surrounded by rolling upland forest. Bottom types are hard(gravel, rubble, boulders) but in some areas covered with muck. Water temperatures vary from 58° at the source to 67° down stream. Brook trout were found in the lower reaches of the stream.

Beaver control could improve the stream by reducing siltation and impounding of water. Some stream improvement would be beneficial to improve cover and the number of pools. In several areas, boulders and rubble block the stream for some distance-improvement in this area would allow fish movement and provide additional room for trout to inhabit.

(43) Credits and Signatures

a) Funding U. S. Forest Service - National Forest Fish Management Program

b) Field work by

Name of crew leader Richard Thompson

Name of aide(s) Steve Hirsch

c) Completed report by

Name Richard Thompson

Title N. R. Specialist II

Approved by _____ Date _____

Regional Fisheries Manager

Typist's Initials:

Na-01558-01
(GF-21) 4/78

MINNESOTA DEPARTMENT OF NATURAL RESOURCES

FISHERIES RECOMMENDATIONS FOR STREAM MANAGEMENT

Stream name Wyman Creek

Alternate name None

Tributary no. S-2-57-3 Date

Reach (mi. to mi.)

Counties St. Louis

Management recommendations:

Stocking Continue present annual stocking of brook trout. Stock 800 yearlings annually and 750 fingerlings annually. With stream banks brushed out, stocking should be done at more locations.

Habitat Improvement Should funds become available, stream improvement should be done. Beaver dams removed, construction done to allow for more cover and pools, and remove large boulders that restrict the stream flow.

Land Acquisition

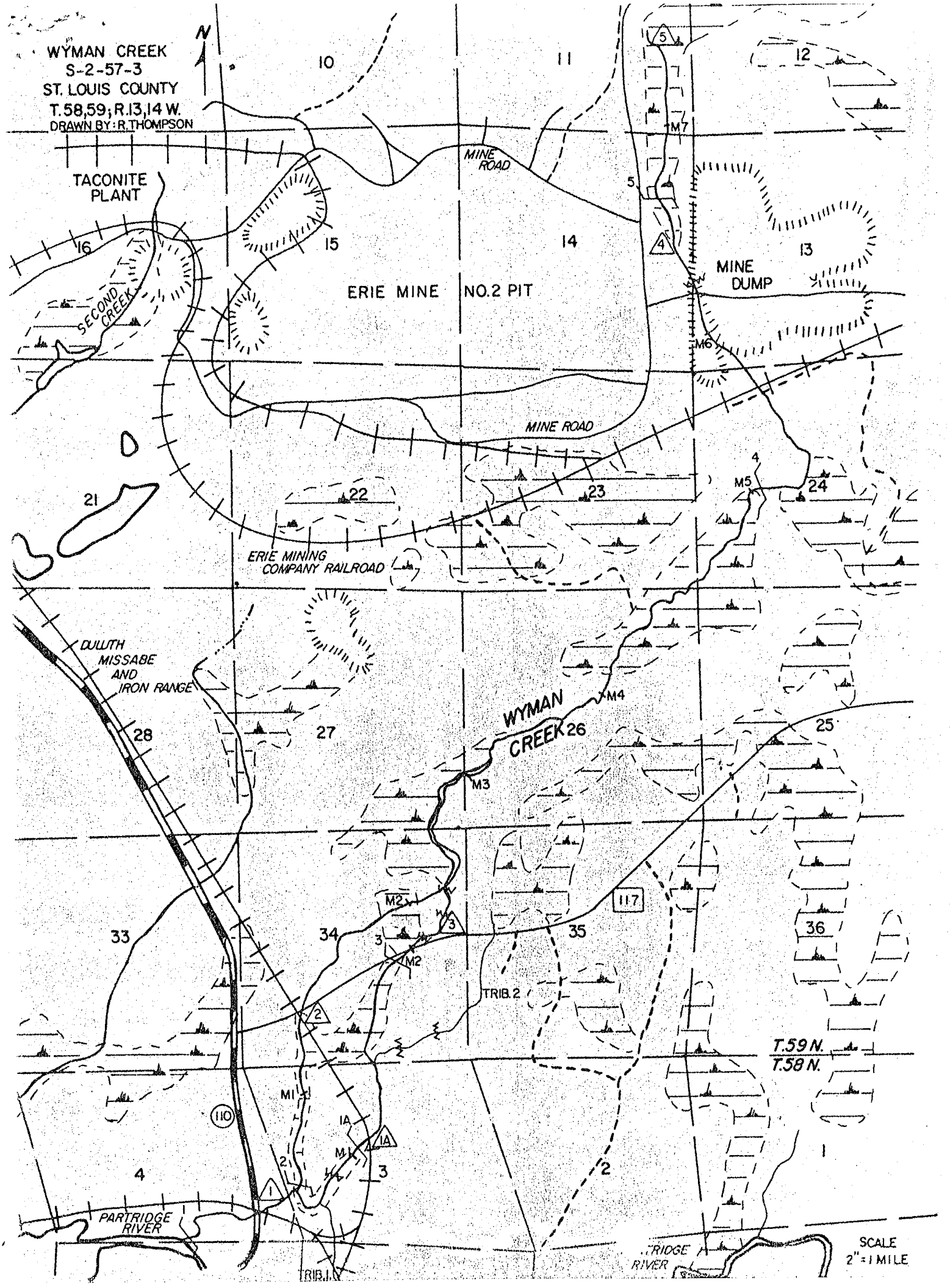
Additional Survey Work Stream should be re-assessed again in the summer of 1984.

Submitted by John Blakesley Date 4/9/82

Area Fisheries Manager

Approved by [signature] Date 4-27-82

Regional Fisheries Manager


WYMAN CREEK
S-2-57-3
ST. LOUIS COUNTY
T.58,59; R.13,14 W.
DRAWN BY: R.THOMPSON
N
TACONITE PLANT
MINE ROAD
ERIE MINE NO.2 PIT
MINE DUMP
SECOND CREEK
MINE ROAD
ERIE MINING COMPANY RAILROAD
DULUTH MISSABE AND IRON RANGE
WYMAN CREEK
TRIB.2
PARTRIDGE RIVER
T.59 N.
T.58 N.
SCALE 2" = 1 MILE
10
11
12
13
14
15
16
21
22
23
24
25
26
27
28
33
34
35
36
1
2
3
4
5
M1
M2
M3
M4
M5
M6
M7
IA
110
117