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MANUSCRIPT REPORT



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No. 73-3



RESULTS OF LAKE SURVEYS CONDUCTED IN SOUTHWESTERN NOVA SCOTIA IN 1972

by

G. H. PENNEY

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F. M. HILTZ

**Fisheries Service
Halifax, N.S.**

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DEPARTMENT OF THE ENVIRONMENT
FISHERIES SERVICE
RESOURCE DEVELOPMENT BRANCH
HALIFAX, NOVA SCOTIA
MARCH, 1973

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INTRODUCTION

In the spring of 1972, a biologist and technician were assigned to carry out fishery resource inventory studies in inland waters in the southwestern Nova Scotia district area. Office, laboratory and storage facilities were obtained and made operational as temporary field headquarters in the Federal Building at Liverpool, Nova Scotia.

Southwestern Nova Scotia has an abundance of freshwater lakes and streams, and it has been estimated that an average of 7.4% of the total area of the seven southwestern counties is made up of lakes, rivers and their estuaries. There is very limited biological data on the fishery resource or potential in these waters which is necessary for fisheries management and development programs.

Inventory studies carried out in 1972 were primarily on lakes and were in the form of basic preliminary surveys to obtain data and local information on fish population structures, limnological features and physical characteristics. During the 1972 field season, 18 lakes were examined and all but two of these lakes were located in Queens County. This report incorporates the results of these lake surveys under one cover.

METHODS

Before selecting waters to investigate in Southwestern Nova Scotia in 1972, available information on previous lake surveys in the area was obtained. Hatchery distribution records for the past ten years for individual lakes were compiled. This information was used to partially determine which waters to investigate in 1972. In general, lakes that were previously surveyed were excluded and waters were chosen that were accessible to anglers and could easily be reached by the general public. Most waters surveyed in 1972 had received considerable hatchery stocking in past years.

Since investigations were basic and preliminary with the objective of a resource inventory concept, methods used were those found in standard limnological practices. In lakes, depth contours were determined and from these one or more water quality stations were set up, depending on the size of the lake. Temperature, dissolved oxygen and pH profiles were made at the water quality stations and Secchi disc readings were taken. In accordance with the time available, gill nets were set and inlet and outlet streams were briefly examined for reproduction potential. Observations such as accessibility, shoreline and watershed characteristics were made and recorded.

RESULTS

The results obtained for each individual lake survey are presented alphabetically; first for the two lakes surveyed in Lunenburg County and second, for the 16 lakes surveyed in Queens County.

The name, map reference, physical characteristics, hydrographic record; including temperature, pH and dissolved oxygen profiles, gill net records, brief remarks on inlets and outlets, and very general remarks are shown for each lake. In addition, an outline of each lake is included. Depth contours, location of gill net sets, water quality stations, and other lake features are shown on these outlines.

AWALT LAKE

Lunenburg Co., N.S.

1972

MAP NO: 21A/9 East Half 1:50,000 series

LONGITUDE: 64°02'15"

LATITUDE: 44°31'30"

AREA: 23.7 A.

MAX. DEPTH: 45'

AVERAGE DEPTH: 10'

ACCESSIBILITY: This lake has a main road running over a causeway across the south end of the lake.

SHORELINE: The shoreline of the lake is almost entirely rocky. There are several swampy areas in the lake which are marked on the map. Below the causeway the lake has become a swamp.

WATERSHED: The watershed of this lake is made up of a spruce-fir forest type with small areas of barren and post-fire hardwoods.

HYDROGRAPHIC RECORD: Date: Sept. 12/72 Air Temp. 22.2°C
Time: 16:30 Location: Δ - See Map
Color: Brown Secchi Disc 3'

TEMPERATURE PROFILE:

Depth (ft) Surface, 4', 7', 9', 14', 15', 16', 17', 18',
19', 23', 40'.

Temperature (°C) 17.8°, 17.8°, 17.2°, 16.7°, 16.1°, 15.6°,
13.3°, 9.4°, 8.9°, 7.8°, 7.2°, 6.7°.

pH & DO Profile

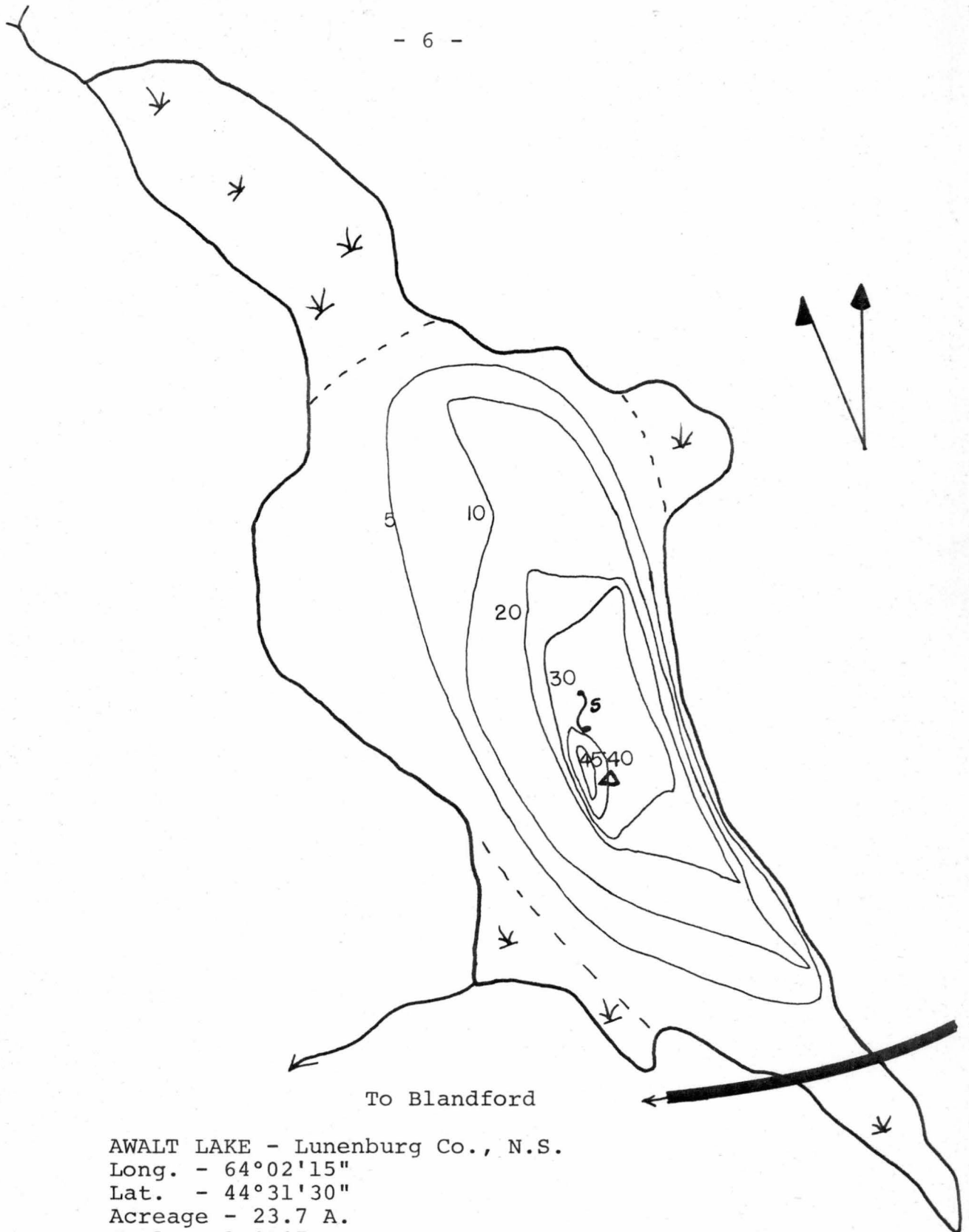
	Surface	15'	Bottom
pH	5.0	5.0	5.0
DO (ppm)	10.0	9.0	5.0

GILL NET RECORD: Depth Set - 13'. Survey Type Net.
Time Set: Sept. 12/72 19:30 hours.
Time Hauled: Sept. 13/72 8:30 hours.
No Fish Caught.

INLET: Unnamed. Flows from black spruce bogs. At the time of the Survey, the brook was dry.

OUTLET: Unnamed. Flows from lake directly to ocean at Vogler's Cove. This brook was also dry at the time of the survey.

REMARKS: This lake was stocked in 1937 with 30,000 trout fry with little or no success. The lake was surveyed in 1952 and the only fish seen were three minnows. It was reported to have been stocked with smallmouth Black bass, but there are no records of this. There isn't any angling in this lake.



AWALT LAKE - Lunenburg Co., N.S.
Long. - 64°02'15"
Lat. - 44°31'30"
Acreage - 23.7 A.
Scale - 1:3125
1" = 260.5'

Legend:



Gillnet



Water Quality Station



Swamp



Road

STEVERMAN LAKE

Lunenburg Co., N.S.

1972

LOCAL NAMES: Lilydale Lake.

MAP NO: 21A/8 West Half. 1:50,000 Series

LONGITUDE: 64°20'40" LATITUDE: 44°23'15"

ACREAGE: 69 A. MAX. DEPTH: 25' AVERAGE DEPTH: 7'

ACCESSIBILITY: Steverman Lake is accessible by crossing fields between the road to Rhodes corner and the lake.

SHORELINE: The shoreline of this lake is approximately 20% rock and the remainder peat bog.

WATERSHED: The watershed of this lake is entirely agricultural land.

HYDROGRAPHIC RECORD: Date: Sept.7/72. Time 14:45
Air Temp: 26.1°C Location: Δ - See Map
Color: Light Brown Secchi Disc 9'

TEMPERATURE PROFILE:

Depth (ft)	Surface	3'	4'	5'	12'	13'	Bottom	25'
Temp. (°C)	21.1°		20.6°	20.0°	19.4°	18.9°	18.9°	

DO & pH Profile

	Surface (3')	12'	Bottom 25'
DO (ppm)	9.0	8.0	8.0
pH	7.0	6.5	6.5

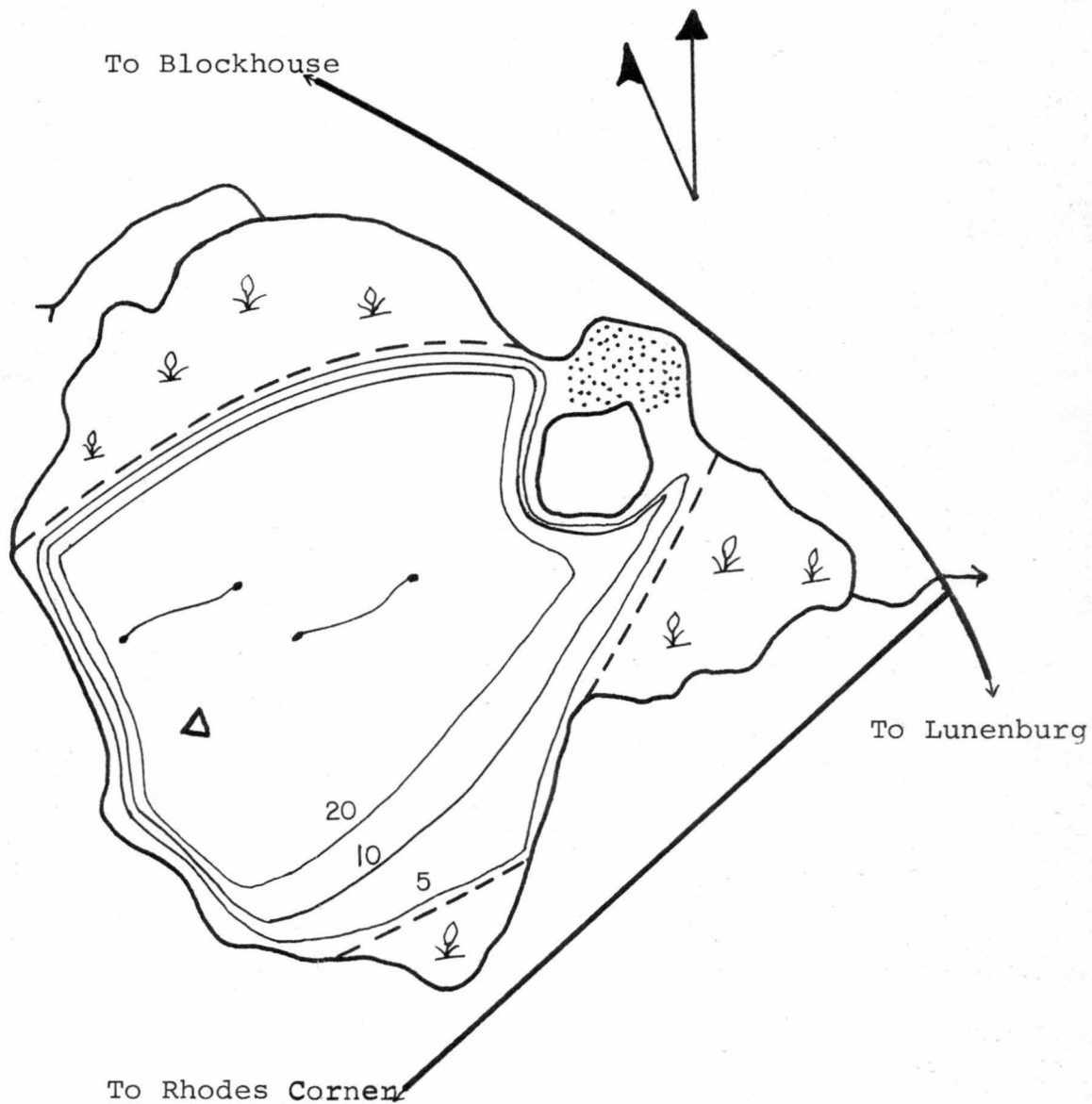
GILL NET RECORD: 1 1/2" Square Mesh Gill Net Surface Set
 Time Set: Sept.7/72 15:00 hours
 Time Hauled: Sept.8/72 10:30 hours
 Results: White Perch 112
 Small Mouth Bass 2
 Brown Bullhead 6

1" Square Mesh Gill Net Bottom Set
 Time Set: Sept.7/72 15:00 hours
 Time Hauled: Sept. 8/72 10:30 hours.
 Results: Green Eel 1
 Yellow Perch 3
 White Perch 89
 Brown Bullhead 1
 White Sucker 2

INLET: Unnamed. The inlet to Steverman Lake is a brook flowing from Cantalope Lake. This stream was dry at the time of the survey but in time of high water it would allow the migration of fish between the two lakes.

OUTLET: Unnamed. The outlet to Steverman Lake is a brook flowing to the ocean at Martin Cove. This stream also was dry at the time of the survey and it is not known if passage of fish is possible or not, but it is suspected there is not any chance of fish migration.





REMARKS: There are no stocking records for this lake, but it was stocked with Small mouth Bass approximately 15-20 years ago and the Bass still remaining are results of natural reproduction. The ages of these fish were 5 and 6 years.



STEVERMAN LAKE - Lunenburg Co., N.S.

Long. - 64°20'40"
Lat. - 44°23'15"
Acreage - 69 A.
Scale - 1:6250
1" = 520.8'

Legend:

-  - Aquatic Vegetation
-  - Water Quality Station
-  - Gillnet
-  - Foreshore Flats

BAR POND

Queens Co., N.S.

1972.

MAP NO: 21A/2 East Half 1:50,000 Series

LONGITUDE: 64°43'15"

LATITUDE: 44°00'30"

ACREAGE: 16.0 A.

MAX. DEPTH: 30'

AVERAGE DEPTH: 7'

ACCESSIBILITY: This lake is readily accessible by means of a dirt road to a gravel pit which borders the lake.

SHORELINE: The shoreline of Bar Pond is mainly gravel with some larger rock. It is approximately 60% 2"-3" gravel, 20% rock and boulder and 20% peat and mud.

WATERSHED: The watershed for the pond is a 20 year post fire succession of laurel and oak. A large part, approximately 30% of the area has been stripped and used for gravel pits.

HYDROGRAPHIC RECORD: Date: Sept.5/72 Time: 14:45
Air Temp: 27.8°C Location: Δ - See Map
Color: Light Brown Secchi Disc 7'

TEMPERATURE PROFILE:

Depth	3'	5'	7'	8'	12'	13'	14'	15'	16'	17'	18'
Temp.	20.6°	20.0°	19.4°	18.9°	18.3°	16.1°	15.0°	13.3°	12.2°	11.1°	10.1°

Depth	19'	20'	21'	23'	27'	29'
Temp.	9.4°	8.9°	8.3°	7.8°	7.2°	7.2°

pH & DO Profile

	Surface (3)	13'	Bottom (29)
pH	60	60	5.5
DO (ppm)	9	8	0

GILL NET RECORD: Bottom Set. Survey Type Net.
Time Set: Sept.6/72 14:45 hours.
Time Hauled: Sept. 7/72 18:45 hours.

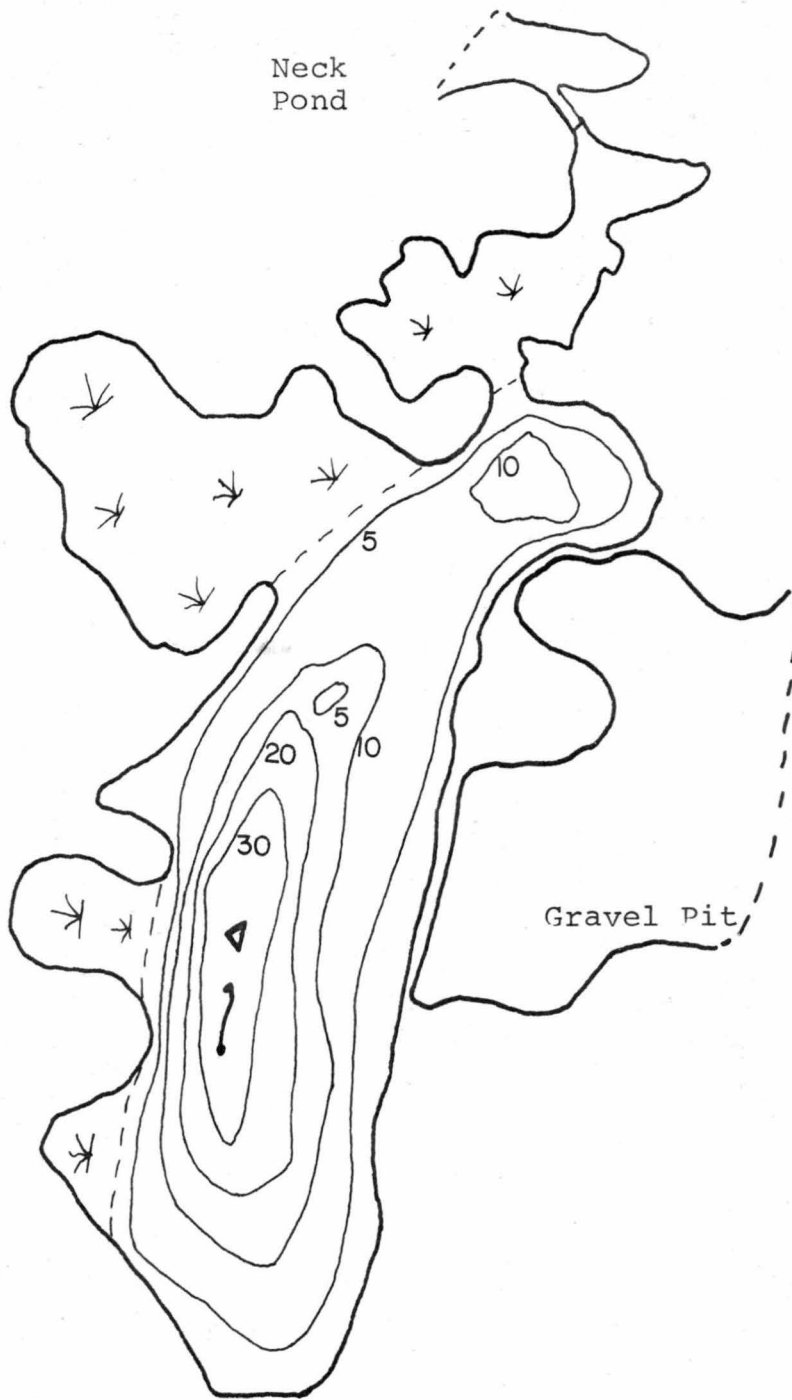
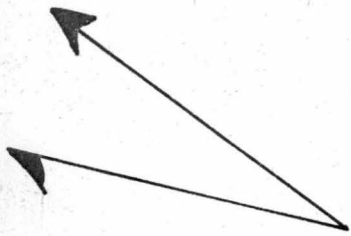
Results:

Yellow Perch	2
White Sucker	19
Speckled Trout	1 - large size, but half eaten by eels.

INLET: There is no inlet stream to this lake.

OUTLET: There is no outlet except through the adjoining Neck Pond. There is an outlet stream from this pond called Hemeon Brook. This would only have a flow of water during extremely high water. There is no spawning potential in this stream.

REMARKS: These ponds are used as a put and take fishery for the children of the Liverpool area. These ponds have been stocked every year since 1964 with the exception of 1969 when there was no stocking reported. Since the largest fish reported stocked were one-year olds, the trout netted indicates that fish overwinter in these ponds.



BAR POND - Queens Co., N.S.

Long. - 64°43'15"
Lat. - 44°00'30"
Acreage - 16.1 A.
Scale - 1:3,168
1" = 264'

Legend:

- △ - Water Quality Station
- - Gillnet
- ✱ - Vegetation

BARNIE LAKE

Queens Co., N.S.

1972

MAP NO: 21A/6 1:50,000 Series

LONGITUDE: 65°08'30"

LATITUDE: 44°22'30"

ACREAGE: 50.6 A. MAX. DEPTH: 15' AVERAGE DEPTH: 10'

ACCESSIBILITY: Accessibility to the lake is poor. It is accessible in two ways: one is across Turtle Lake and a one-quarter mile portage; the other is by a one-half mile, 4-wheel drive road at the end of a dirt road.

SHORELINE: The shoreline is approximately 80% small rock and 20% peat and mud bog.

WATERSHED: Watershed for this lake is completely forested in a mature mixed wood condition.

HYDROGRAPHIC RECORD: Date: Aug. 23/72 Time: 16:30
Air Temp: 24.4°C Location: Δ - See Map
Color: Light Brown Secchi Disc 11'

TEMPERATURE PROFILE:

Depth (ft) Surface, 2', 4', 7', Bottom 13'.

Temp (°C) 22.2°, 21.7°, 21.1°, 20.6°.

pH & DO Profile

	Surface (2)	Bottom (13)
pH	6.5	6.5
DO (ppm)	10.0	9.0

GILL NET RECORD: Bottom Set. Survey Net Type.
Time Set: Aug. 23/72 16:00 hours.
Time Hauled: Aug. 24/72 10:00 hours.

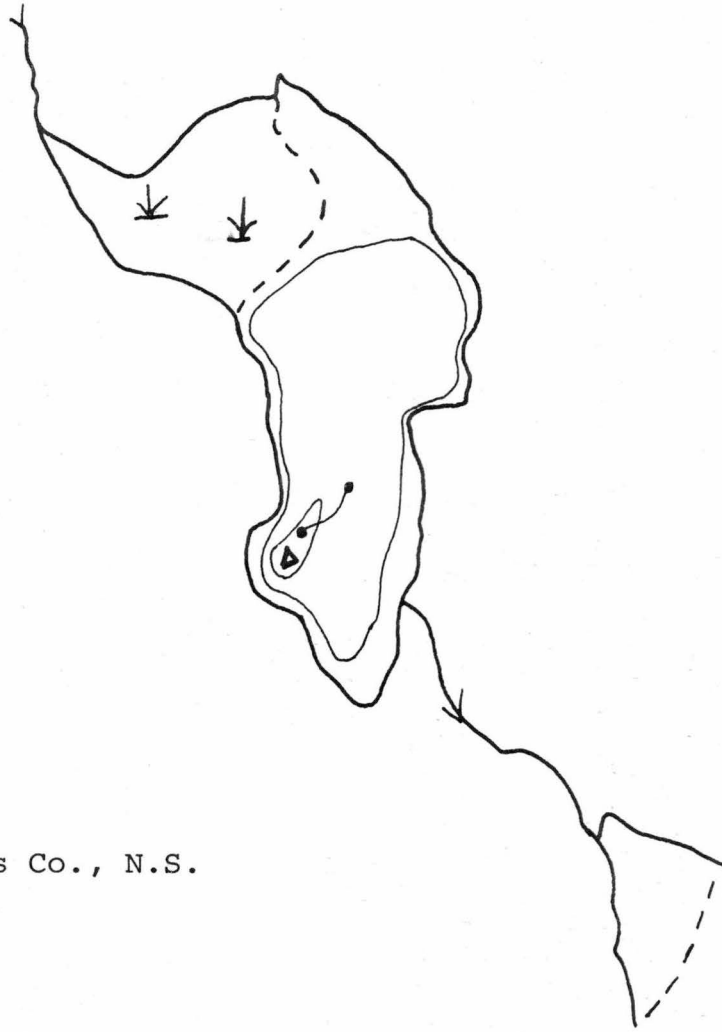
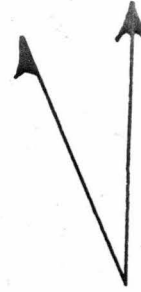
Results:

	Trout	Fork Length	Weight	Age
Speckled Trout	3			
Yellow Perch	4			
White Perch	57	11.9 in.	9.25 oz.	
Brown Bullhead	48	10.1 in.	5.25 oz.	

INLET: Unnamed. The inlet flows from swampy land but was very low at the time of the survey. In critical times of spawning, incubation, and nursery, the stream appears it would be able to provide good habitat during these critical seasons. There are potentially good spawning areas.

OUTLET: Unnamed. The outlet flows from Barnie Lake to Turtle Lake and is approximately 1/4 mile long. It was dry at the time of the survey. There is no spawning potential in the stream.

REMARKS: There is a large amount of vegetation in the northern end of the lake. This lake was stocked only once in 1964, but Turtle Lake was stocked in 1968, 1969, 1970 and 1971 with trout. The trout caught in Barnie Lake may be a result of the Turtle Lake stocking as the trout may have come up the brook during high water or they may be wild stock from the inlet stream above the lake.






BARNIE LAKE - Queens Co., N.S.

Long. - 65°08'30"
Lat. - 44°22'30"
Acreage - 50.6 A.
Scale - 1:10,000
1" = 833.3'

- Turtle Lake

Legend:

-  - Gillnet
-  - Water Quality Station
-  - Vegetation

BLUEBERRY POND (WAGNERS LAKE)

Queens Co., N. S.

1972.

MAP NO.: 21A/2 East Half 1:50000 Series.

LONGITUDE: 64°35'00"

LATITUDE: 44°05'05"

ACREAGE: 53.1 A.

MAX. DEPTH: 8'

AVERAGE DEPTH: 7'

ACCESSIBILITY: This lake is readily accessible from a main road running up along the east side of the lake approximately 200 yards from the shoreline. There are several roads to the shoreline across pasture land.

SHORELINE: The shoreline of the lake is approximately 60% rock ledge and large boulders and 40% peat and mud bog.

WATERSHED: The watershed for Blueberry Pond is a mixture of pastureland, swamp and bog and post fire succession. It is approximately 50% pastureland; 20% swamp and bog and 30% 15 year post fire succession, which is made up of pincherry, small hardwood, laurel and small softwood.

HYDROGRAPHIC RECORD: Date: July 24/72 Time: 14:50
Air Temp: 24.4°C Location: Δ - See Map
Color: Light Brown Secchi Disc. 11'

TEMPERATURE PROFILE:

Depth (ft)	Surface 3'	Bottom 8'
Temp. (°C)	22.8°	22.3°

DO & pH Profile

	Surface (3)	Bottom (8)
DO (ppm)	6.5	6.5
pH	10	9

GILL NET RECORD: Surface Sets
Nets Used:

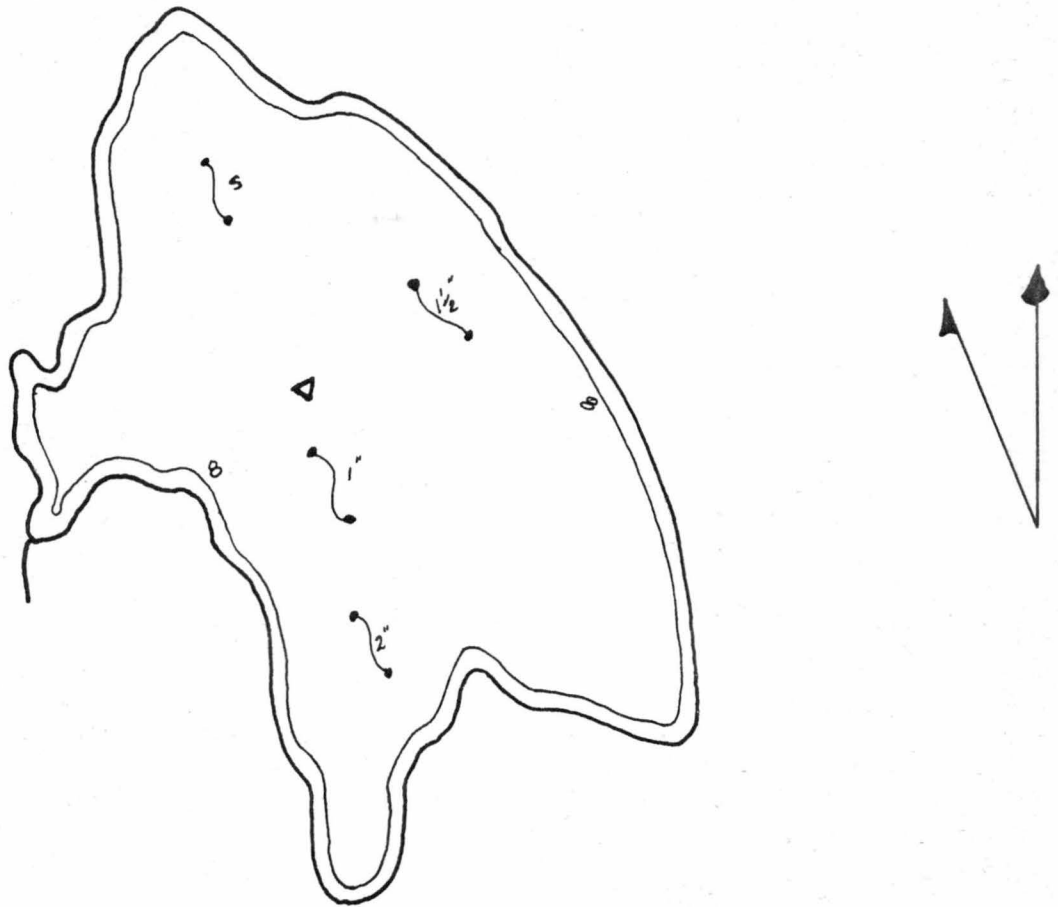
Survey Net
1" Square Mesh Net
1 1/2" " " "
2" " " "

Results: 1 W.Sucker in the 1 1/2" Net.

INLET: There is no inlet to this lake.

OUTLET: There is a swampy brook running through two small ponds to the ocean. This brook was almost dry at the time of the survey. There is no spawning potential in this stream.

REMARKS: Stocking was reported in this lake in 1964, 1971 and 1972. Even though no fish were caught in this lake, fisheries officers and public report good spring fishing in the lake. It appears to be a put and take fishery.



BLUEBERRY POND (WAGNERS LAKE) - Queens Co., N.S.

Long. - 64°35'00"
Lat. - 44°05'05"
Acreage - 53.1 A.
Scale - 1:6,250
1" = 520.8'

Legend:

- △ -Water Quality Station
- -Gillnet

CANNON LAKE

Queens Co., N.S.

1972

MAP NO.: 21A/6 1:50,000 Series

LONGITUDE: 65° 08' 30"

LATITUDE: 44° 21' 00"

ACREAGE: 83.1 A. MAX. DEPTH: 6' AVERAGE DEPTH: 4'

ACCESSIBILITY: Cannon Lake is approximately 200 yards from the end of a good second class road. There is an old wagon road down through a field and woods from the end of the gravel road to the lake shore.

SHORELINE: The shoreline of Cannon Lake is approximately 50% peat and mud bog, 30% rock ledge and boulders and the remaining 20% fine gravel beach.

WATERSHED: Cannon Lake has a watershed which is made up of 30% swamp and 60% mixed wood forest. The remaining 10% is unworked, abandoned farm land.

HYDROGRAPHIC RECORD: Date: Aug. 15/72 Time: 13:45
Air Temp: 19.4°C Location: Δ - See Map
Color: Brown Secchi Disc 3'

TEMPERATURE PROFILE:

Depth (ft)	Surface, 3'	Bottom 7'
Temp. (°C)	20.0°	19.4°

pH & DO Profile

	Surface (3)	Bottom (7)
pH	9.0	8.2
DO (ppm)	5.5	6.5

GILL NET RECORD: Bottom Set. Survey Type Net
Time Set: Aug. 15/72 13:30 hours.
Time Hauled: Aug. 16/72 10:00 hours.

Results:

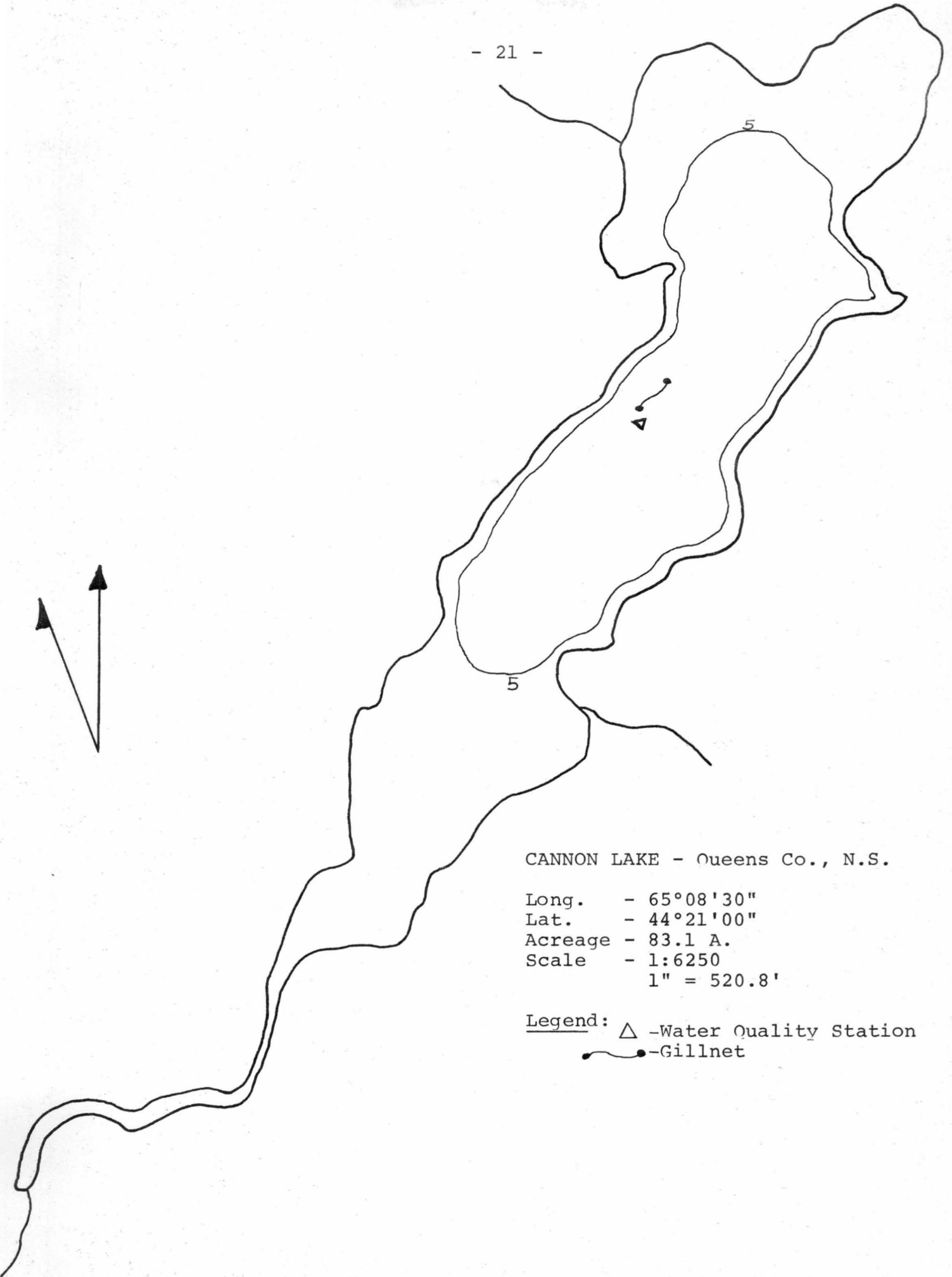
White Perch	39
White Sucker	14
Brown Bullhead	14
Yellow Perch	3

INLET: There are two unnamed inlet streams to this lake. One is a swampy stream, i.e. stillwater originating in a swamp. The other originates in Menchan Lake, but was dry at the time of the survey. There may be spawning potential in this stream, but there is no potential in the first stream.

OUTLET: There is an outlet to the lake called Cannon Brook. This flows to Loon Lake which forms a part of the Mersey River. During the critical seasons of spawning to nursery there

may be enough water for spawning potential in this stream. At the time of the survey this stream was dry. There is an old dam at the foot of the lake, but it would have enough holes in it to allow fish to move through it. Fishing is reported to be good in the stream in the spring.

REMARKS: Cannon Lake has stocking reported for 1965 - 1968, 1970 and 1972 and Cannon Brook reports stocking for 1964 and 1967. Fishing is reported to be good in Cannon Lake and Brook in the spring of the year.



CANNON LAKE - Queens Co., N.S.

Long. - 65°08'30"
Lat. - 44°21'00"
Acreage - 83.1 A.
Scale - 1:6250
1" = 520.8'

Legend: Δ -Water Quality Station
●-Gillnet

FREEMAN LAKE

Queens Co., N.S.

1972

MAP NO: 21A/6 1:50,000 Series

LONGITUDE: 65°06'45" LATITUDE: 44°25'45"

ACREAGE: 37.6A. MAX. DEPTH: 12' AVERAGE DEPTH: 7'

ACCESSIBILITY: This lake is readily accessible by a dirt road which runs along the south-east side of the lake. A gravel beach runs almost to the road and an access road has been built to the beach.

SHORELINE: The shoreline of this lake is made up of large boulders and ledge rock with small areas of peat bog.

WATERSHED: The watershed of this lake is approximately 50% farm and pastureland and 50% mixed wood forest.

HYDROGRAPHIC RECORD: Date: Aug.23/72 Time: 11:30
Air Temp: 24.4°C
Color: Green Secchi Disc 7'+ on bottom

TEMPERATURE PROFILE:

Depth (ft)	Surface (3')	Bottom (7')
Temp (°C)	21.7°	21.7°

DO & pH Profile

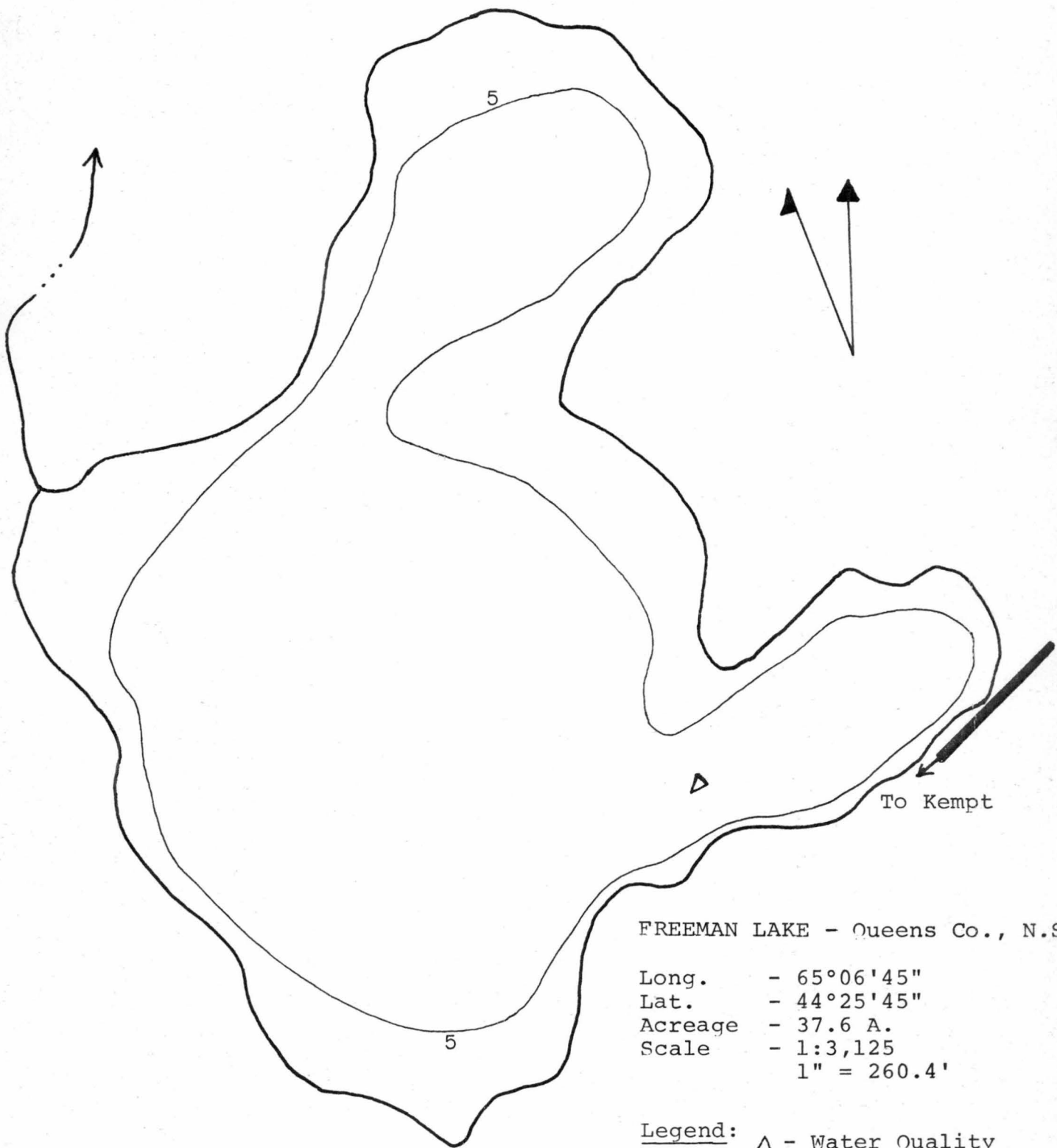
	Surface (3')	Bottom (7')
DO (ppm)	10.0	10.0
pH	6.5	6.5

GILL NET RECORD: There was no netting done in this lake.

INLET: There is no inlet stream running into this lake.

OUTLET: The outlet from Freeman Lake is a small unnamed brook which flows into Mount Merit Brook, which flows into the Medway River through Eel Lake. There are spawning grounds below this brook and fish could migrate to these grounds during high water. The brook was dry at the time of this survey.

REMARKS: Freeman Lake has been stocked every year since 1963, with the exception of 1969. Mount Merit Brook also has been stocked every year since 1963, with the exception of 1969 and 1972. Fishing is reported by the local people as being fair.



FREEMAN LAKE - Queens Co., N.S.

Long. - 65°06'45"
Lat. - 44°25'45"
Acreage - 37.6 A.
Scale - 1:3,125
1" = 260.4'

Legend: Δ - Water Quality Station

HARMONY LAKE

Queens Co., N.S.

1972

MAP NO: 21A/6 1:50,000 Series

LONGITUDE: 65°06'45" LATITUDE: 44°23'30"

ACREAGE: 875.05 A. MAX. DEPTH: 35' AVERAGE DEPTH: 15'

ACCESSIBILITY: Harmony Lake is accessible from four points, two on main roads and two on private roads as well as a large number of cabin roads.

SHORELINE: Before flooding the lake, the shoreline appears to have been mostly rocky, with softwood swamps. Presently much of the shoreline is flowage and the remainder is large boulders and ledge rock.

WATERSHED: The majority of the watershed of Harmony Lake appears to be softwood forest, much of which has been cut over. There are large choppings and several small farms in the area. A small percentage of the watershed is hardwood forest of oak, beech and maple. On one end of the lake there is a large sawmill and lumber yard.

HYDROGRAPHIC RECORD: Date: Aug. 21/72 Time: 11:00
Air Temp: 24.4°C Location: Δ1 - See Map
Color: Light Brown Secchi Disc 13'

TEMPERATURE PROFILE:

Depth (ft)	3'	5'	10'	19'	23'	24'	25'
Temp (°C)	21.1°	20.6°	20.0°	19.4°	18.9°	17.8°	16.1°
		26'	27'	29'			
		13.9°	13.3°	12.8°			

pH & DO Profile

Depth (ft)	Surface (3')	15'	Bottom 29'
pH	6.5	6.5	6.5
DO (ppm)	9	9	8

Date: Aug. 21/72 Time: 14:30
Air Temp: 28.3°C Location: Δ2 - See Map
Color: Light Brown Secchi Disc 11'

TEMPERATURE PROFILE:

Depth (ft)	3'	5'	6'	9'	15'	16'	17'	18'	19'
Temp (°C)	21.1°	20.6°	20.0°	19.4°	18.9°	18.9°	17.8°	16.1°	14.4°
	20'	21'	22'	23'	24'	25'	29'		
	12.8°	11.1°	10.6°	10.0°	9.4°	8.9°	8.9°		

pH & DO Profile

Depth (ft)	Surface (3)	19'	Bottom 29'
pH	6.5	6.5	6.5
DO (ppm)	9	9	0

GILL NET RECORD: Survey Net. Bottom Set 20'
Time Set: Aug.21/72 20:30 hours
Time Hauled: Aug. 22/72 8:30 hours

Results:

Brown Bullhead 4
White Perch 51
White Sucker 21

1" Square Mesh Net Bottom Set
Time Set: Aug. 22/72 21:00 hours
Time Hauled: Aug. 23/72 8:30 hours

Results:

White Perch 2
White Sucker 2

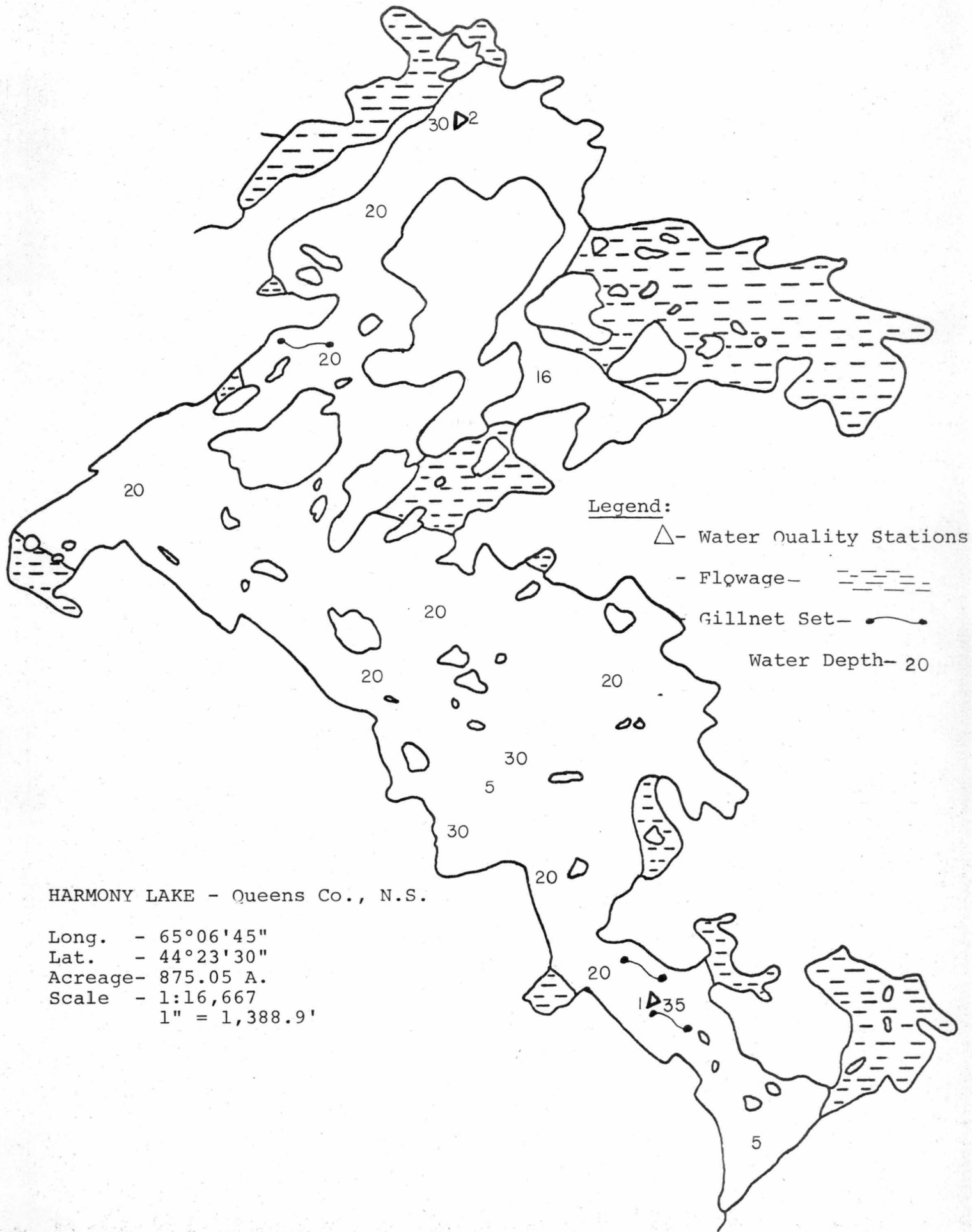
1 1/2" Square Mesh Net Bottom Set
Time Set: Aug. 23/72 20:00 hours.
Time Hauled: Aug. 24/72 8:30 hours.

No Fish caught.

INLET: There is one small unnamed inlet stream to Harmony Lake from Donnellan Lake. This stream is partly flowage of Harmony Lake and the remainder is a very shallow still-water. There would be no spawning potential in this stream.

OUTLET: The outlet from Harmony Lake is a small unnamed brook. This brook has a dam at the foot of the lake which would allow fish passage downstream but no fish can migrate upstream.

REMARKS: Stocking of Harmony Lake has been reported every year since 1963 with the exception of 1969. The smallest number of fish ever reported stocked is 210,000. Fishing in the lake is reported as being poor to nil by camp owners. Only two trout were known to be caught in the spring of 1972. Local people feel the fish migrate out of the lake.



HARMONY LAKE - Queens Co., N.S.

Long. - 65°06'45"
Lat. - 44°23'30"
Acreage- 875.05 A.
Scale - 1:16,667
1" = 1,388.9'

HERRING COVE LAKE

Queens Co., N.S.

1972

MAP NO: 21A/2 East half 1:50,000 Series

LONGITUDE: 64°43'30" LATITUDE: 44°07'30"

ACREAGE: 942.0 A. MAX DEPTH: 22' AVERAGE DEPTH: 15'

ACCESSIBILITY: Herring Cove Lake is readily accessible by means of a dirt road which begins at the end of a paved road on Moose Hill above Milton.

SHORELINE: The shoreline of Herring Cove Lake is mainly rock ledges and large boulders with areas of flowage.

WATERSHED: The watershed of this lake is mainly mixed wood forest with some large stands of softwood and cut over areas.

HYDROGRAPHIC RECORD: Date: July 18/72 Time: 14:30
Air Temp: 34.4°C Location: Δ - See Map
Color: Brown Secchi Disc 6'

TEMPERATURE PROFILE:

Depth (ft)	Surface	3'	5'	10'	15'	22'
Temp. (°C)		23.9°	23.9°	22.8°	22.2°	20.0°

pH & DO Profile

Depth (ft)	Surface	10	Bottom	20'
DO (ppm)	8	8	7	
pH	6.0	6.0	6.0	

GILL NET RECORD: Bottom Set.
Time Set: July 17/72 15:00 hours.
Time Hauled: July 18/72 10:00 hours.

Results: 2" Square Mesh
 White Sucker 1
 1" Square Mesh
 Yellow Perch 23
 White Sucker 5
 Green Eels 1

Survey
 Yellow Perch 96
 White Sucker 40
 Green Eels 1

1 1/2" Square Mesh
 No fish caught

INLET: The inlet to Herring Cove Lake is called West Brook. This flows from a pipeline from Eight Mile Lake. Below the pipeline there is spawning potential but the pipeline will not allow the migration of fish.

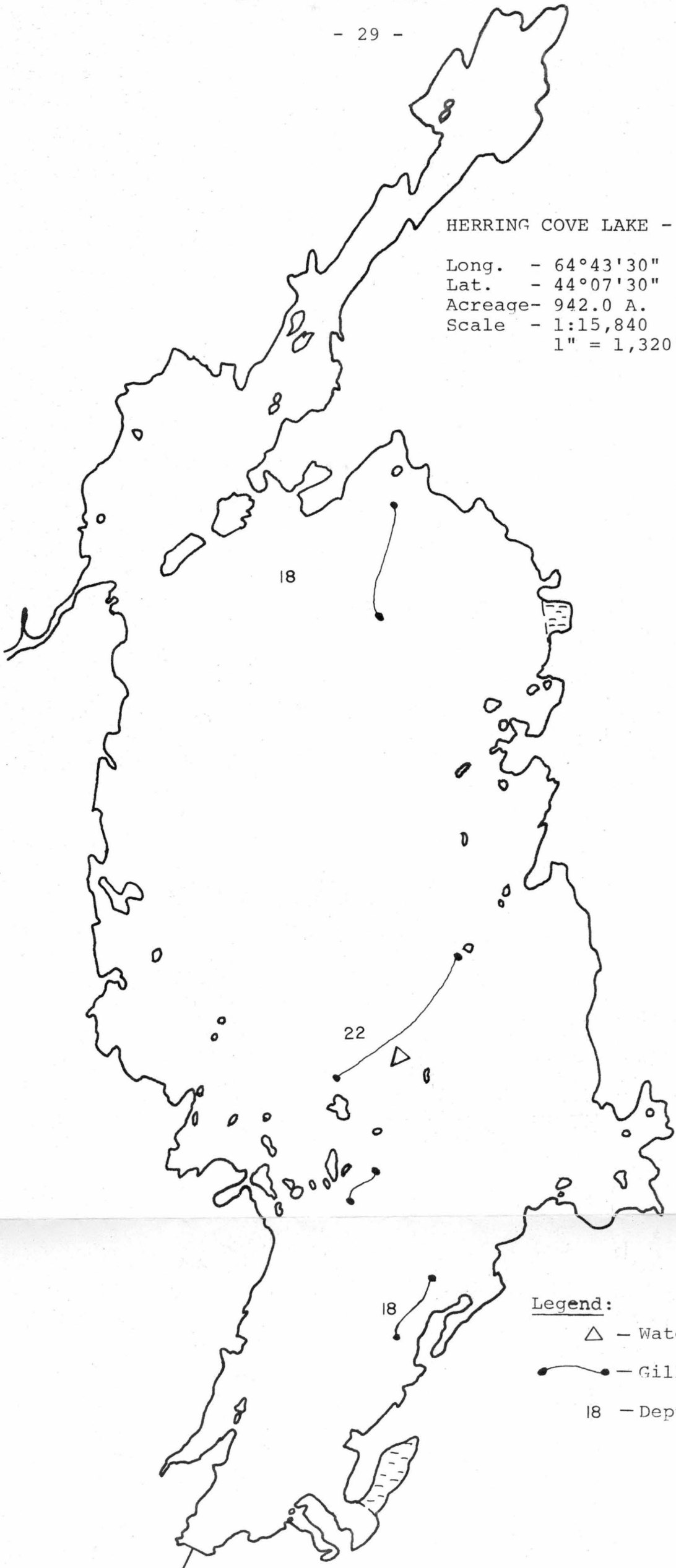
OUTLET: The outlet of Herring Cove Lake is called Herring Cove Brook. This brook has a dam at Herring Cove Lake and another at the foot of Nickerson's Pond. The brook then flows to the ocean into Herring Cove. Both these dams control water flow and will not allow the migration of fish. Below Herring Cove lake dam there are good spawning beds.

Physical qualities of this brook are pH 6.0; DO 8 ppm
Temperature 17.8°C.

REMARKS: Fish stocking in the lake is reported for the years 1964, 1965, 1966 and 1972. Fishing in the lake is reported as nil but the Herring Cove Brook is reported as fair.

HERRING COVE LAKE - Queens Co.,
N.S.

Long. - 64°43'30"
Lat. - 44°07'30"
Acreage- 942.0 A.
Scale - 1:15,840
1" = 1,320'



- Legend:
- △ - Water Quality Station
 - - Gillnet
 - 18 - Depth

HUNT LAKE

Queens Co., N.S.

1972

MAP NO: 21A/6 1:50,000 Series

LONGITUDE: 65°09'50" LATITUDE: 44°24'30"

ACREAGE: 8.07 A. MAX DEPTH: 23' AVERAGE DEPTH: 15'

ACCESSIBILITY: Hunt Lake is situated approximately 100 feet from a dirt road beginning in New Grafton. There is an old truck road to the lake from the dirt road.

SHORELINE: Approximately 50% of the shoreline is three inch gravel, 30% is sand and 20% is peat bog.

WATERSHED: The watershed of Hunt Lake is almost entirely large softwood forest with one small farm.

HYDROGRAPHIC RECORD: Date: Aug. 30/72 Time: 14:00
Air Temp: 27.8°C Location: Δ - See Map
Color: Light Green Secchi Disc 19'

TEMPERATURE PROFILE:

Depth (ft)	Surface	3'	6'	12'	14'	15'	16'	17'
Temp (°C)	23.3°	22.8°	22.2°	21.7°	20.6°	19.4°	18.3°	
		18'	19'	20'	21'	22'	23'	
		16.7°	16.1°	15.6°	14.4°	13.9°	13.9°	

pH & DO Profile

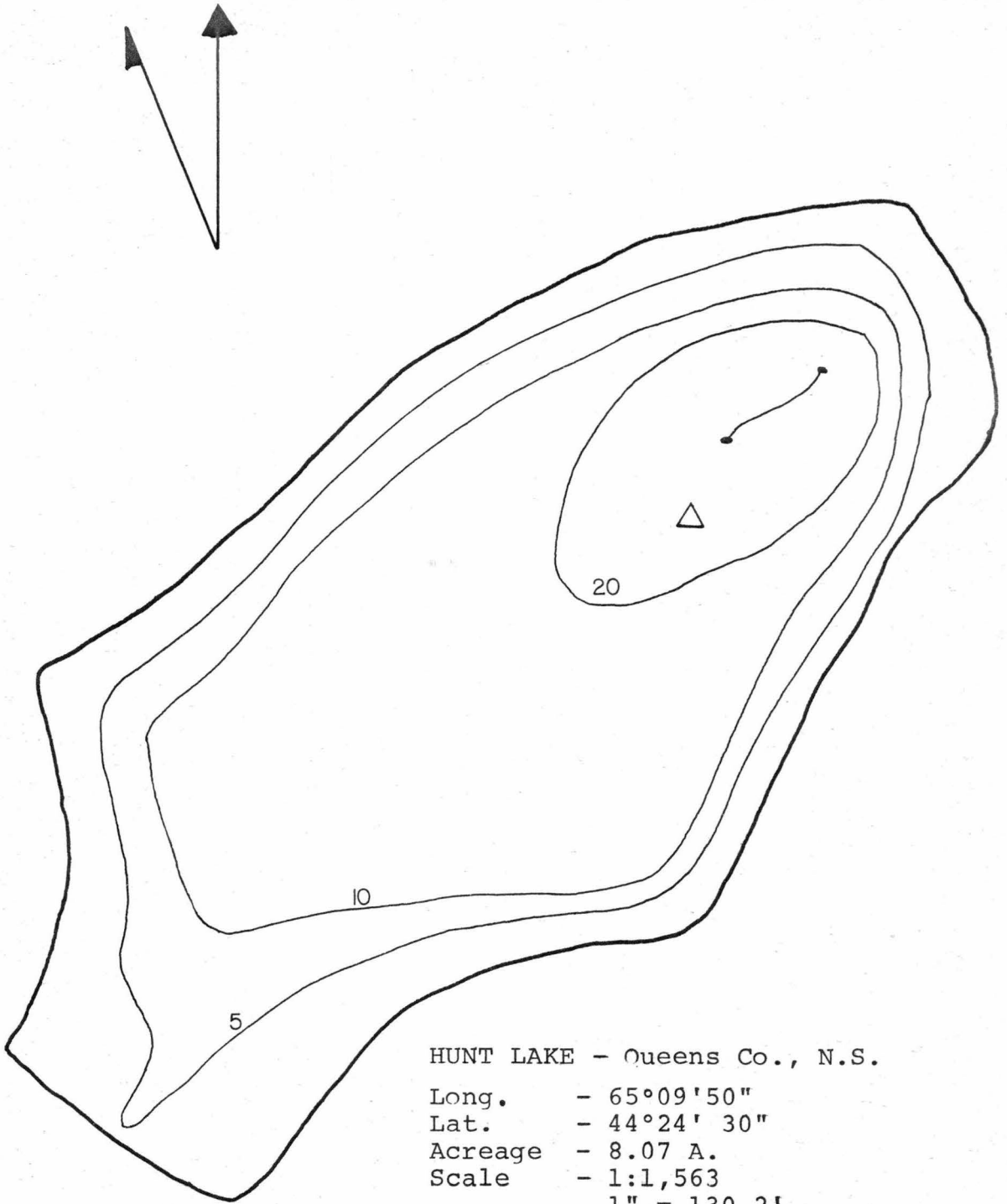
Depth (ft)	Surface	3'	17'	Bottom	22'
DO (ppm)	10	10	10		
pH	6.5	6.5	6.0		

GILL NET RECORD: Only a large number of suckers and white perch and brown bullhead were caught.

INLET: There is no inlet stream to this lake.

OUTLET: There is a small unnamed outlet brook to the lake but was dry at the time of the survey. This outlet brook was reported to have large numbers of fry in the spring but since a road was bulldozed across it, there haven't been any seen.

REMARKS: There isn't any stocking of Hunt Lake reported but a forest ranger in the area reports good fishing in the spring.



HUNT LAKE - Queens Co., N.S.

Long. - 65°09'50"
Lat. - 44°24'30"
Acreage - 8.07 A.
Scale - 1:1,563
1" = 130.2'

Legend:

- △ - Water Quality Station
- - Gillnet

LOUIS LAKE

Queens Co., N.S.

1972

MAP NO: 20P/15 West Half 1:50,000 Series

LONGITUDE: 64°55'30" LATITUDE: 43°53'50"

ACREAGE: 65.0 A. MAX. DEPTH: 10' AVERAGE DEPTH: 4'

ACCESSIBILITY: There is an access road for gravel pits, which is approximately one and one-half miles long, which begins one mile west of Port Joli. These gravel pits border the lakeshore.

SHORELINE: Theshoreline of Louis Lake is approximately 90% peat and mud bog and the remaining 10% gravel.

WATERSHED: The watershed of Louis Lake is approximately 50% gravel pits and 50% 20 year post fire succession which is mainly barren and small hardwoods in the area.

HYDROGRAPHIC RECORD: Date: Aug. 2/72 Time: 13:10
Air Temp: 24.4°C Location: Δ - See Map
Color: Brown Secchi Disc 3'

TEMPERATURE PROFILE: Water temperature was 24.4°C from top to bottom.

DO & pH Profile

DO - 7.0 - Profile was uniform
pH - 5.0 - " " "

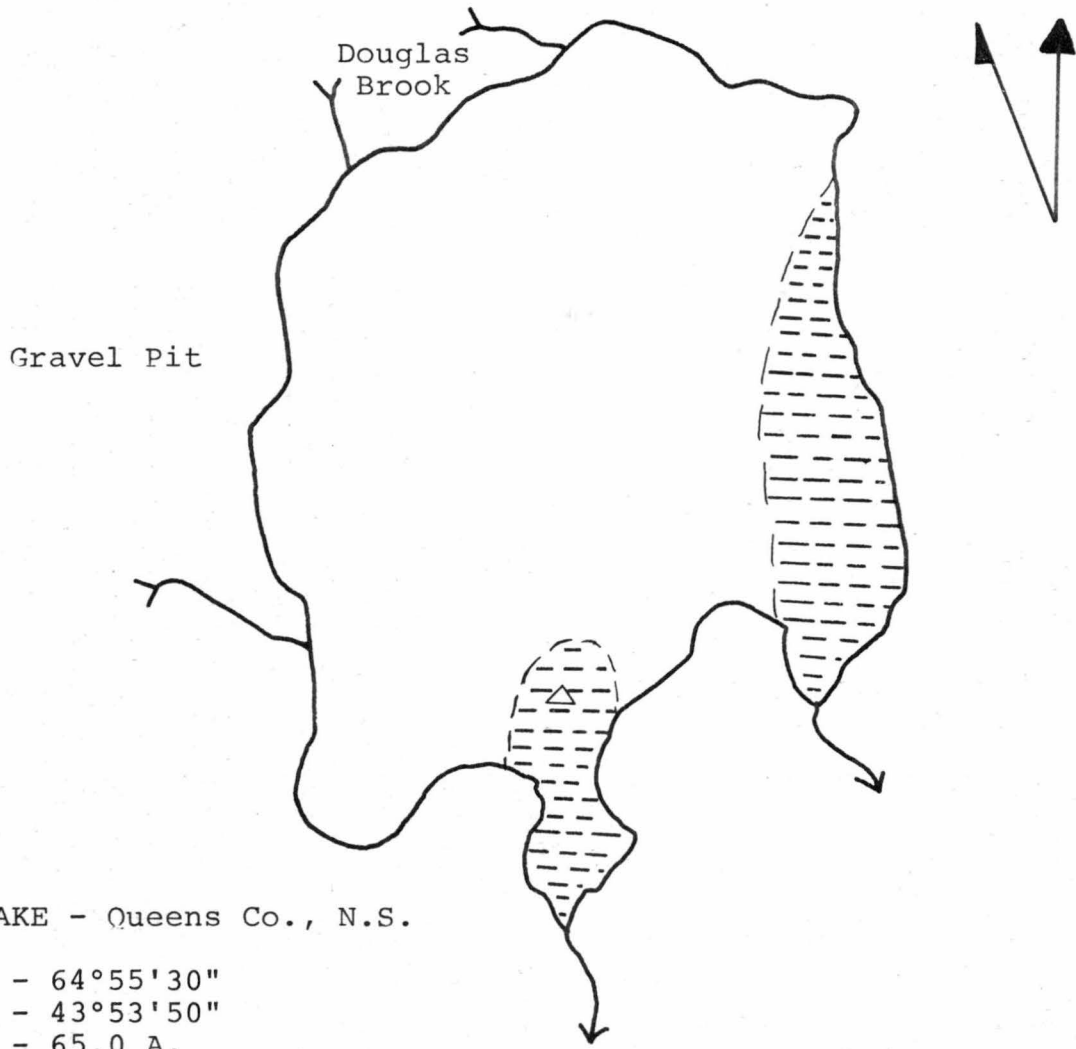
GILL NET RECORD: There was no gill netting done in this lake.

INLET: Douglas Brook. Douglas Brook begins in swampy areas north of Louis Lake. This brook was very yellow at the time of the survey but has a good gravel bottom and the spawning potential would be good if water high. Two trout were caught in a pool upstream and one yellow perch was caught at the mouth of the brook. Water Quality of Douglas Brook - Aug. 2/72 13:00 Color - Tea Colored.
pH 5.0 DO 7.0

OUTLET: Douglas Brook flows from Louis Lake to Atlantic Ocean. This part of Douglas Book was very low at that time of the survey also. Spawning potential would be good at the time of high water.

REMARKS: This lake is approximately 90% covered by dense aquatic vegetation. There was no oxygen content determination taken late at night, but it is probably very low.

Louis Lake was reported stocked from 1964 to 1968 inclusive. Trout were observed taking fly from the water along the western shore. These trout were 5" - 6" long and judging from their size, it could be assumed there is natural reproduction in the lake or brook.



LOUIS LAKE - Queens Co., N.S.

Long. - 64°55'30"
Lat. - 43°53'50"
Acreage - 65.0 A.
Scale - 1:6250
1" = 520.0'

Legend:

- △ - Water Quality Station
- - Free of Aquatic Vegetation

MENCHAN LAKE

Queens Co., N.S.

1972

MAP NO: 21A/6 1:50,000 Series

LONGITUDE: 65°06'30" LATITUDE: 44°20'15"

ACREAGE: 130.2 A. MAX. DEPTH: 39' AVERAGE DEPTH: 15'

ACCESSIBILITY: The accessibility to Menchan Lake is relatively poor. There is a very steep tractor or 4-wheel drive road behind the fire tower in West Caledonia. This is approximately one-half mile long.

SHORELINE: The shoreline of Menchan Lake is approximately 50% fine gravel beach; 40% large gravel and rock and 10% peat and mud bog.

WATERSHED: The watershed is mainly softwood forest, but there is a small acreage of farmland in it as well.

HYDROGRAPHIC RECORD: Date: Aug.29/72 Time: 9:00
Air Temp: 22.2°C Location: Δ - See Map
Color: Green Secchi Disc 21'

TEMPERATURE PROFILE:

Depth (ft)	Surface	3'	23'	25'	27'	29'	30'	Bottom	36'
Temp. (°C)		21.7°	21.7°	21.1°	20.6°	20.0°	19.4°		18.9°

pH & DO Profile

	Surface (3)	27'	Bottom (36)
pH	6.5	6.5	6.0
DO (ppm)	9.0	8.0	6.0

GILL NET RECORD: Aug.29/72. Net Set 24' Survey Net.
Time Set: Aug.29/72 10:00 hours
Time Hauled: Aug.29/72 10:45 hours
Hours Fished: 0:45 min.

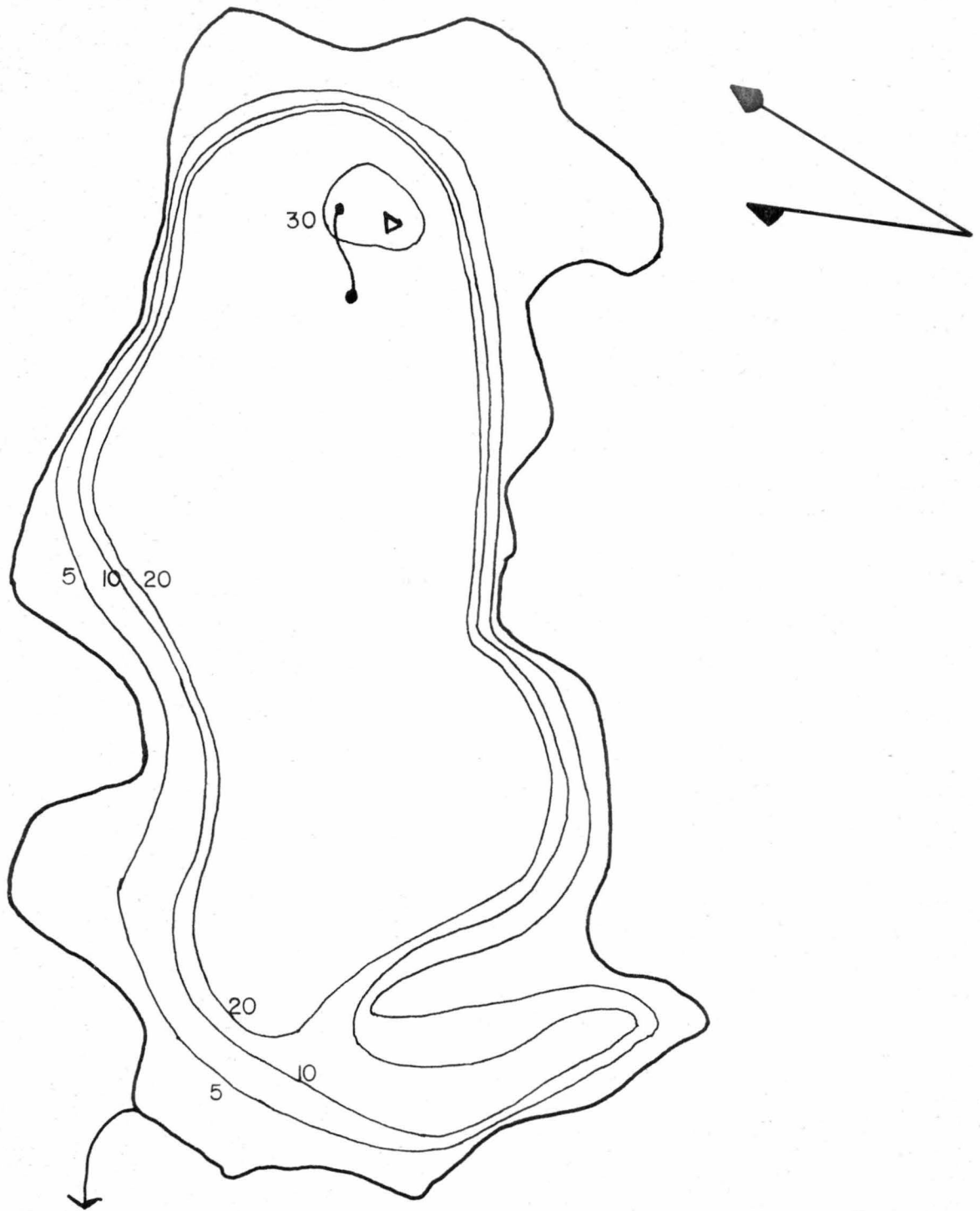
Results: Speckled Trout 4
White Perch 26
White Sucker 13

Speckled Trout	Sex	Weight(oz)	Length(fk)
	♀	9.0	11.2"
	♀	11.3	11.4"
	♀	9.0	11.6"
	♀	7.8	10.6"
	♀	7.0	10.2"
	♀	13.3	12.3"

INLET: There are no inlet streams to this lake.

OUTLET: Unnamed. There is one outlet stream from this lake which flows to Cannon Lake. The system from Cannon flows eventually to the Mersey River. This brook was dry at the time of the survey but would possibly offer spawning potential at the time of the survey.

REMARKS: There has not been any stocking of trout in Menchan Lake reported so it would appear all the trout in the lake are a result of natural propagation. The fish caught were very shiny and in extremely good condition. This lake would lend itself very well to a management program.



MENCHAN LAKE - Queens Co., N.S.

Long. - 65°06'30"
Lat, - 44°20'15"
Acreage: - 130.21 A.
Scale - 1:6250
1" = 520.8'

Legend:
△-Water Quality Station
●-Gillnet

NICKERSON'S POND

Lunenburg Co., N.S.

1972

MAP NO: 21A/2 East Half 1:50,000 Series

LONGITUDE: 64°42'20" LATITUDE: 44°04'30"

ACREAGE: 83.1A MAX. DEPTH: 20' AVERAGE DEPTH: 6'

ACCESSIBILITY: Nickerson's Pond has a road maintained by the Mersey Paper Co., running in along the southwestern corner of the lake to the dam. This road begins at Great Hill which is approximately 2 miles east of Liverpool.

SHORELINE: The shoreline of Nickerson's Pond is mainly large rock and boulders, with small areas of peat and mud bog.

WATERSHED: The watershed of Nickerson's Pond is 100% mature softwood forest.

HYDROGRAPHIC RECORD: Date: July 12/72 Time 14:45
Air Temp: 28.9°C
Color Brown Secchi Disc. 4'

TEMPERATURE PROFILE:

Depth (ft)	Surface	3'	5'	10'	12'	13'	14'	15'	16'
Temp. (°C)	22.2°	22.2°	19.4°	18.9°	18.3°	16.1°	13.9°	12.8°	
				17'	Bottom	20'			
				11.7°	11.1°				

pH & DO Profile

Depth (ft)	Surface	3	10'	Bottom	20'
pH	6.0		6.0	5.5	
DO	8		8	2	

GILL NET RECORD: Bottom Set (6') Survey Net.
Time Set: July 12/72 15:30 hours
Time Hauled: July 13/72 8:30 hours.

Results: W. Suckers 40
Y. Perch 10
S.Trout 9

The trout were all 7.5" - 9.5" long and they were all yearling fish. These fish appear to be the result of spring stocking.

INLET: Herring Cove Brook. This brook begins at Herring Cove Lake and maintains a constant flow of water all year because of a water control dam at Herring Cove Lake. The water quality of the brook at 10:45 on July 13/72 was:-

Water Temp: 17.8°C
pH 6.0
DO (ppm) 8.0

The water in the stream was very light brown and quite clear.

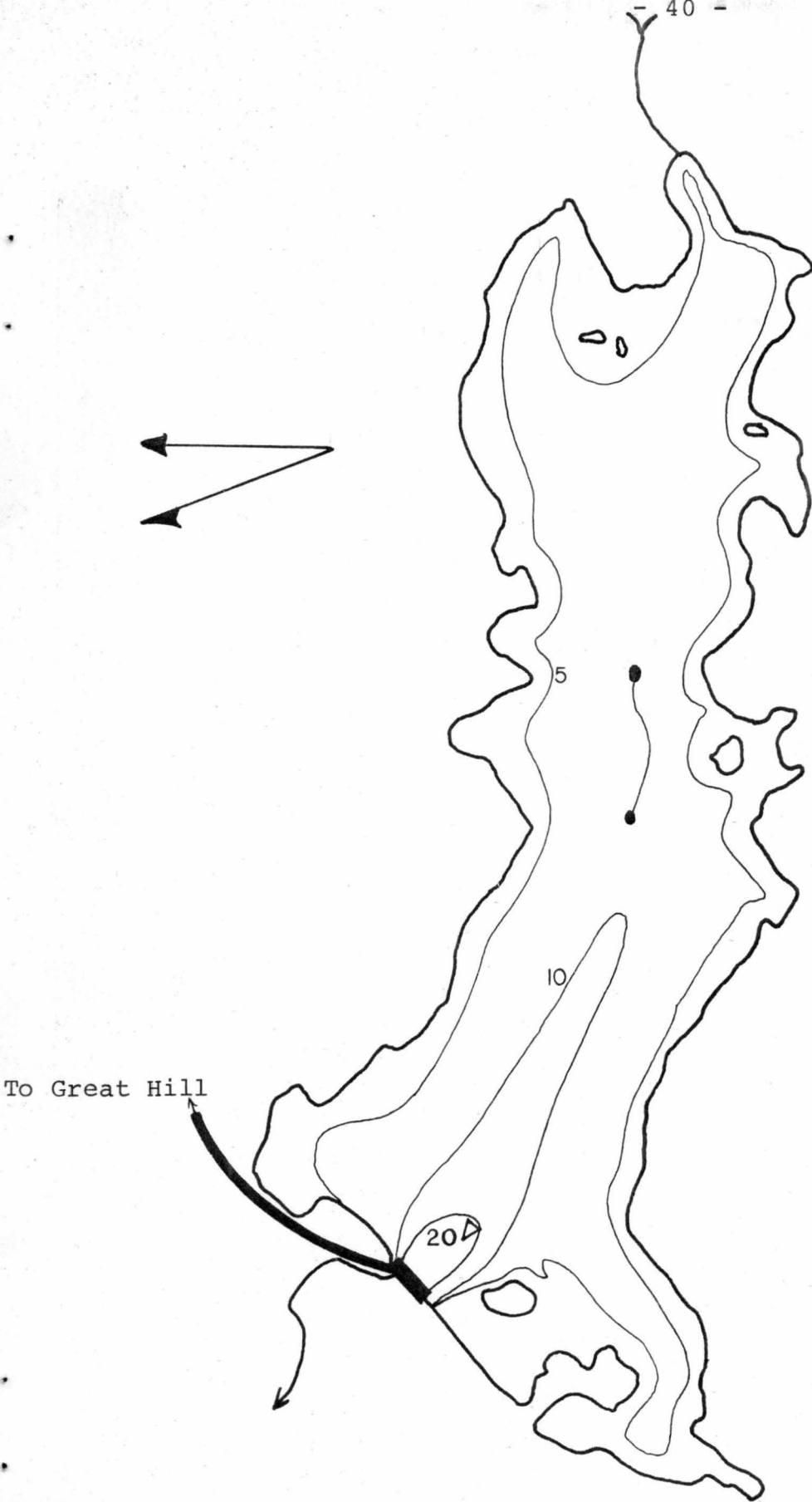
Migration of fish is not possible from the brook into Herring Cove Lake and vice versa, except for eels, because of the water control dam.

There is good spawning potential in the stream because of gravel areas and the constant flow of water.

OUTLET: Herring Cove Brook. There is a water control dam at the foot of Nickerson's Pond. This dam has a pipeline from it to the Mersey Paper Company so the brook is virtually dry at all times of the year. All the water that does pass to the brook is screened so passage of fish is impossible.

REMARKS: Nickerson's Pond has stocking reported for every year from 1964 to 1972, with the exception of 1970 and 1971. Since all the fish caught were yearlings it appears there is no material reproduction or very little.




This pond is a water reservoir for the Mersey Paper Company and is stocked for a put and take fishery for the children of the area.



NICKERSON'S POND - Queens Co
N.S.

Long. - 64°42'20"
 Lat. - 44°04'30"
 Acreage - 83.1A.
 Scale - 1:6250
 1"=520.8"

Legend:

-  - Dam
-  - Water Quality Station
-  - Gillnet

To Great Hill

PATH LAKE

Queens Co., N.S.

1972

MAP NO: 20P/15 West Half 1:50,000 Series

LONGITUDE: 64°56'00" LATITUDE: 43°53'45"

ACREAGE: 54.1 A. MAX. DEPTH: 40' AVERAGE DEPTH: 10'

ACCESSIBILITY: A road running from Port Joli to East Port Hebert passes within 100 feet of the eastern shore of the lake.

SHORELINE: The shoreline is approximately 70% rock ledge and large boulders, 15% fine gravel beach and 15% peat and mud bog.

WATERSHED: The majority of the watershed of this lake is a 20 year post-fire succession. There are small areas of large softwood left by the fire.

HYDROGRAPHIC RECORD: Date: July 10/72 Time: 14:50
Air Temp: 23.9°C
Color: Tea Color Secchi Disc 7'

TEMPERATURE PROFILE:

Depth (ft)	Surface	3'	5'	10'	12'	13'	15'	20'	25'
Temp. (°C)	22.2°	21.1°	19.4°	18.9°	17.8°	16.1°	14.4°	12.8°	
		30'				Bottom 37'			
		12.2°				12.2			

DO & pH Profile

	Surface 3'	20'	Bottom 36'
DO (ppm)	9.0	7.0	4.0
pH	6.2	5.5	5.0

GILL NET RECORD: (1) Bottom Set 10' Survey Net.
Time Set: June 27/72 16:00 hours
Time Hauled: June 28/72 8:00 hours

W. Perch 131

(2) Bottom Set 10' Survey Net.
Time Set: June 28/72 10:00 hours
Time Hauled: June 29/72 9:00 hours.

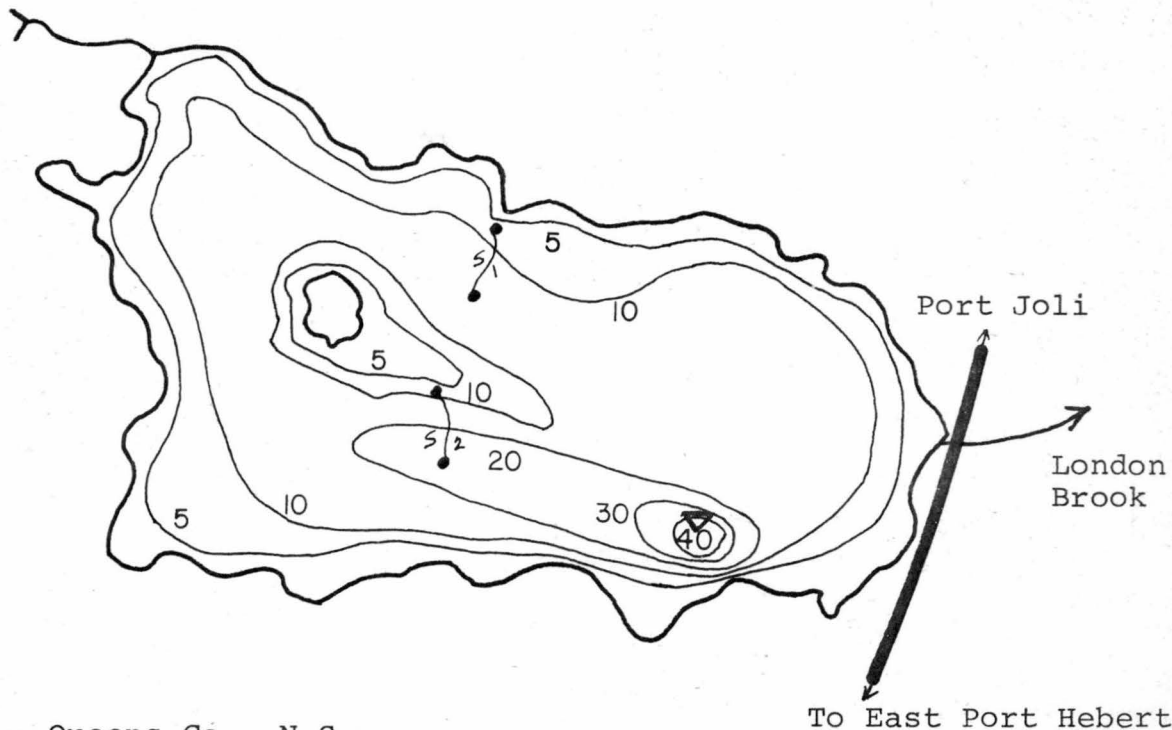
No fish were caught.

INLET: Unnamed. The inlet to Path Lake is a spruce swamp stillwater. There is little movement of water and it offers no spawning potential.

OUTLET: London Brook. This brook was dry at the time of the survey but just below the lake for a distance of approximately 300 yards, there is a spawning potential during high water. The brook is mainly slow moving water or still water with a short riffle below the the lake and just above the mouth at the ocean.

REMARKS: Path Lake has been reported stocked every year since 1963 to 1972 inclusive, with the exception of 1970 and 1971. It has been stocked mainly with brown trout and it is believed by the fishery officers that most of these go to sea by London Brook during high water. This is backed up by the report of brown trout appearing in Big Robertson Lake before they were ever stocked there.



There are no reports by local people who fish the lake of any trout other than an odd speckled trout being caught.



PATH LAKE - Queens Co., N.S.

Long. - 64°56'00"
Lat. - 43°53'45"
Acreage - 54.1 A.
Scale: - 1:6250
1" = 520.8'

Legend:

-  - Water Quality Station
-  - Gillnet Set

LITTLE ROBERTSON LAKE

Queens Co., N.S.

1972

MAP NO: 20P/15 West Half 1:50,000 Series

LONGITUDE: 64°54'15" LATITUDE: 43°53'15"

ACREAGE: 22.9 A. MAX. DEPTH: 21' AVERAGE DEPTH: 10'

ACCESSIBILITY: The main highway from Liverpool to Shelburne passes within 100 yards of the shore of this lake and there is a wagon road from the highway to the lake shore.

SHORELINE: The shoreline is approximately 90% rock ledge and large boulders, 5% sand beach and 5% peat and mud bog.

WATERSHED: The watershed of Little Robertson Lake is approximately 50% spruce and fir forest, 30% cutover area and 20% post fire succession, which is made up of barren and small hardwood.

HYDROGRAPHIC RECORD: Date: June 29/72 Time: 10:00
Air Temp: 16.1°C Location: Δ - See Map
Color: Dark Brown Secchi Disc 3'

TEMPERATURE PROFILE:

Depth (ft)	Surface	3'	4'	5'	10'	14'
Temp (°C)		20.6°	19.4°	18.3°	16.1°	15.6°

DO & pH Profile	Surface 3'	Bottom 21'
DO (ppm)	8.0	4.2
pH	5.0	5.0

GILL NET RECORD: 2" Square Mesh Bottom Set
Time Set: June 28/72 19:00 hours
Time Hauled: June 29/72 8:30 hours

Results: Brown Trout - 1 Male 5 lb. 2.25 oz. 24.3"

1 1/2" Square Mesh - Surface Set
Time Set: June 28/72 19:00 hours
Time Hauled: June 29/72 8:30 hours

No fish caught.

Survey Net - Bottom Set
Time Set: June 28 19:00 hours
Time Hauled: June 29 8:30 hours.

No fish caught.

INLET: There is no inlet to this lake as such but there are two springs which percolate from the ground about 10 feet from the lake shore. These trickle over a sand beach to the lake. The water quality on these is as follows:

The more northerly spring:

Temp. 11.1°C pH 5.0 DO 10.2 ppm

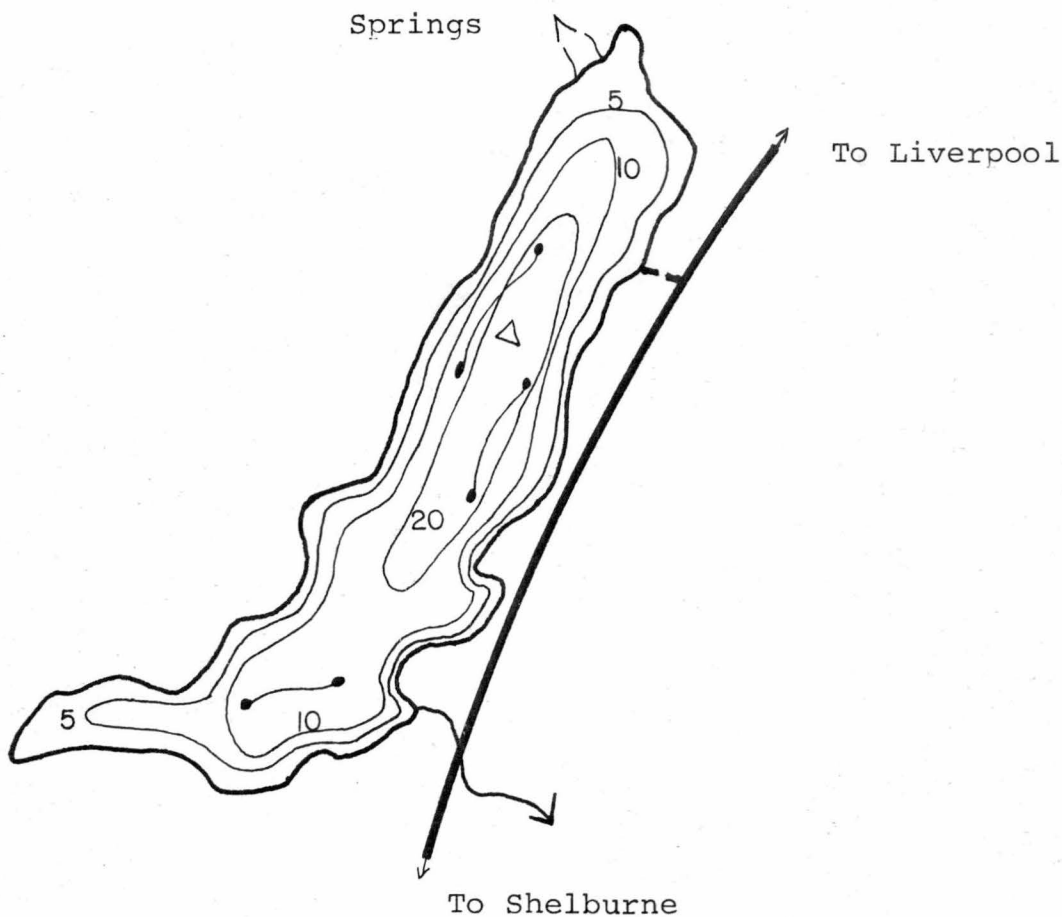
The more southerly spring:

Temp. 12.2°C pH 4.5 DO 10.2 ppm

There is some spawning potential on the lake shore just off from these springs.




OUTLET: Unnamed. This brook flows to Big Robertson Lake which empties to the Atlantic Ocean through a small brook. The brook between the two lakes is approximately 35 - 40 feet in elevation. Fish could migrate downstream all year but only during high water could they migrate upstream. There is some spawning potential at the mouth of the brook in Big Robertson Lake.

REMARKS: There are no actual stocking reports for either lake but stocking was done on Robertson Lake, presumably the Big Robertson Lake in 1963, 1966 and 1968. If fish were stocked in the little lake, it is felt they would have migrated out to the large lake and on to sea. It is felt all the remaining brown trout in the system are sea run.



LITTLE ROBERTSON LAKE - Queens Co., N.S.

Long. - 64°54'15"
Lat. - 43°53'15"
Acreage - 22.9 A.
Scale - 1:6250
1" = 520.8'

- Legend:
-  - Gillnet Set
 -  - Wagon Road
 -  - Water Quality Station

BIG ROBERTSON LAKE

Queens Co., N.S.

1972

MAP NO: 20P/15 West Half 1:50,000 Series

LONGITUDE: 64°54'00"

LATITUDE: 43°52'00"

ACREAGE: 163.8A. MAX. DEPTH: 50' AVERAGE DEPTH: 20'

ACCESSIBILITY: Robertson Lake is very accessible by two roads; the main highway from Liverpool to Shelburne and the road from Port Joli to St. Catherines River.

SHORELINE: The shoreline of Robertson Lake is approximately 60% rock and boulder, 35% sand and gravel beach and 5% peat and mud bog.

WATERSHED: The entire watershed of Robertson Lake is softwood forest of various size composition due to fire and cutting practices.

HYDROGRAPHIC RECORD: Date: July 11/72 Time 11:30
Air Temp: 20.0°C
Color: Dark Brown Secchi Disc 4'

TEMPERATURE PROFILE:

Depth (ft)	Surface	3'	5'	12'	13'	14'	15'	16'	17'
Temp (°C)	20.6°	20.6°	20.0°	18.9°	18.3°	17.8°	16.7°	16.1°	
		18'	20'	22'	26'	28'	29'	30'	
		14.4°	13.9°	13.3°	12.8°	12.8°	10.6°	8.9°	
		35'	50'						
		8.3'	8.3'						

DO & pH Profile

	Surface	3'	25'	Bottom	50'
DO (ppm)	8		7	2	
pH	5.5		5.0	5.0	

GILL NET RECORD: Depth Set - 25'
Time Set: July 10/72 19:00 hours
Time Hauled: July 11/72 9:00 hours

Survey Net Results:

Gaspereau - 1

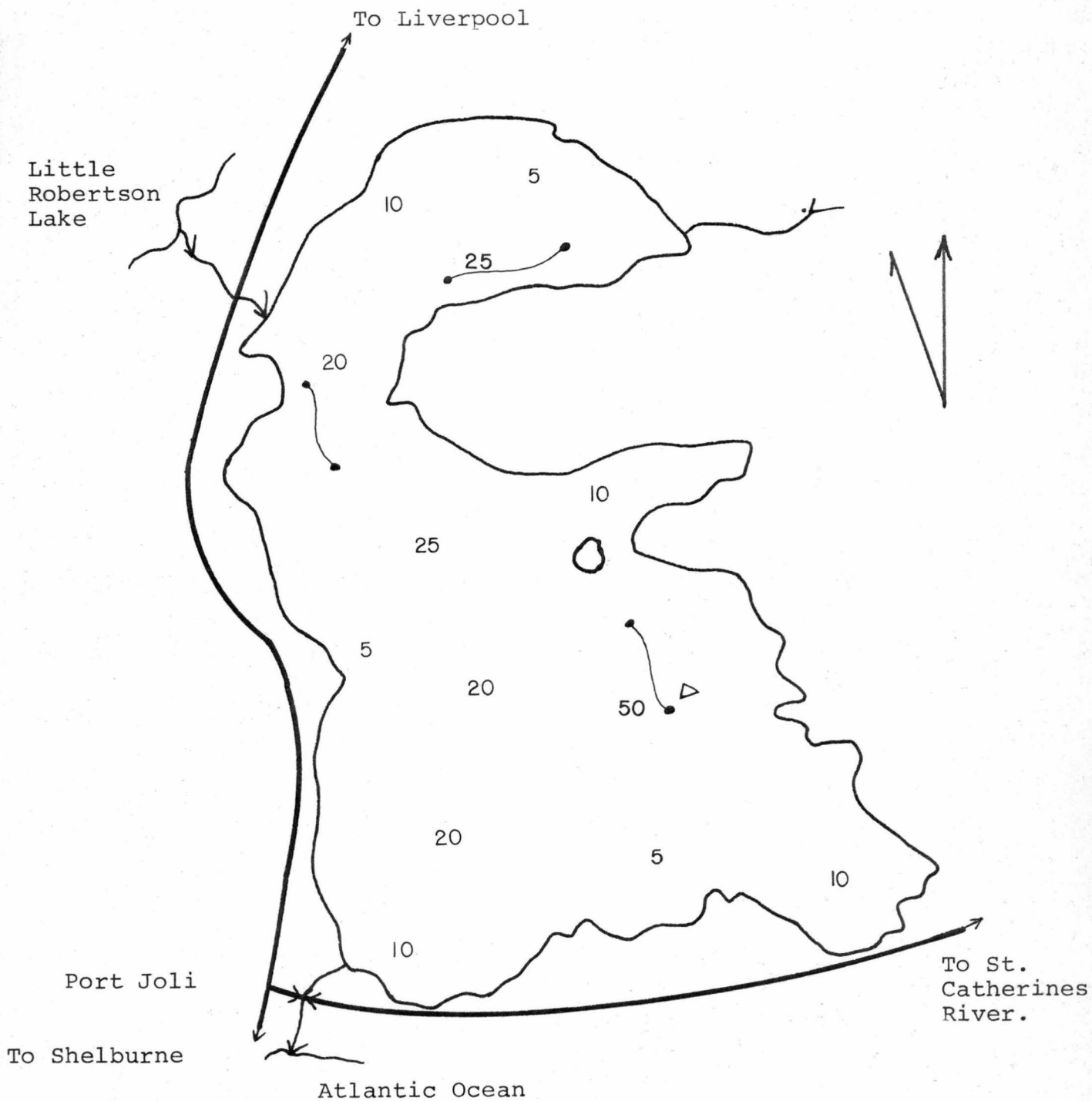
2" Square Mesh Gill Net

Brown Trout - 1 Male 17.75" 924 grams.

2" Square Mesh Gill Net

No fish caught.




- INLET: There are two unnamed inlets to this lake. The first is a small stream from swamps. It is very slow-moving and has no spawning potential. The second is from Little Robertson Lake. This is a very short stream which falls very steeply. At the mouth of the stream there is very good spawning potential. This stream would allow passage of fish in either direction during high water.
- OUTLET: Unnamed. This stream is approximately 200 yards long and flows into the Atlantic Ocean. It offers passage for fish migration but it offers no spawning potential.
- REMARKS: Robertson Lake was reported stocked in 1963, 1966 and 1968, but it is unknown whether this was Big Robertson Lake or Little Robertson Lake. It is felt the remaining brown trout in the lakes are mainly sea-run and any trout stocked in Little Robertson Lake migrate to the Big Robertson Lake.



BIG ROBERTSON LAKE - Queens Co., N.S.

Long. - 64°54'00"
 Lat, - 43°52'40"
 Acreage - 163.8'
 Scale - 1:8333.3
 1" = 694.4'

Legend:

-  - Gillnet
-  - Water Quality Station
- 5 - Water Depth
-  - Bridge

TURTLE LAKE

Queens Co., N.S.

1972

MAP NO. 21A/6 1:50,000 series

LONGITUDE: 65°07'45" LATITUDE: 44°21'45"

ACREAGE: 223.3A MAX. DEPTH: 25' AVERAGE DEPTH: 15'

ACCESSIBILITY: Accessibility to this lake is excellent. A main dirt road passes within 50 feet of the south eastern corner of the lake and there is a gravel beach there.

SHORELINE: Approximately 80% of the shoreline is large boulders or ledge rock with about 5% of it gravel beach and the remaining 15% of it peat and mud bog.

WATERSHED: The majority of the watershed of this lake is forested in a mixed wood condition. There are two small farms in the immediate area but there is a substantial green belt between these and the lake.

HYDROGRAPHICAL RECORD: August 17, 1972, Time 17:50
Air Temp. 22.2°C, Color blue green
Seechi Disc 16'.

TEMPERATURE PROFILE: Depth (feet) Surface 3' Bottom 24'
Temp. (°C) 20° 19.4°

pH AND D.O. PROFILE: Depth (feet) Surface (3) 12' Bottom (24)
pH 6.5 6.5 6.5
DO (ppm) 9 9 9

GILL NET RECORD: Bottom Set
Time Set - Aug 16/72 18:00
Time Hauled - Aug 17/72 9:00

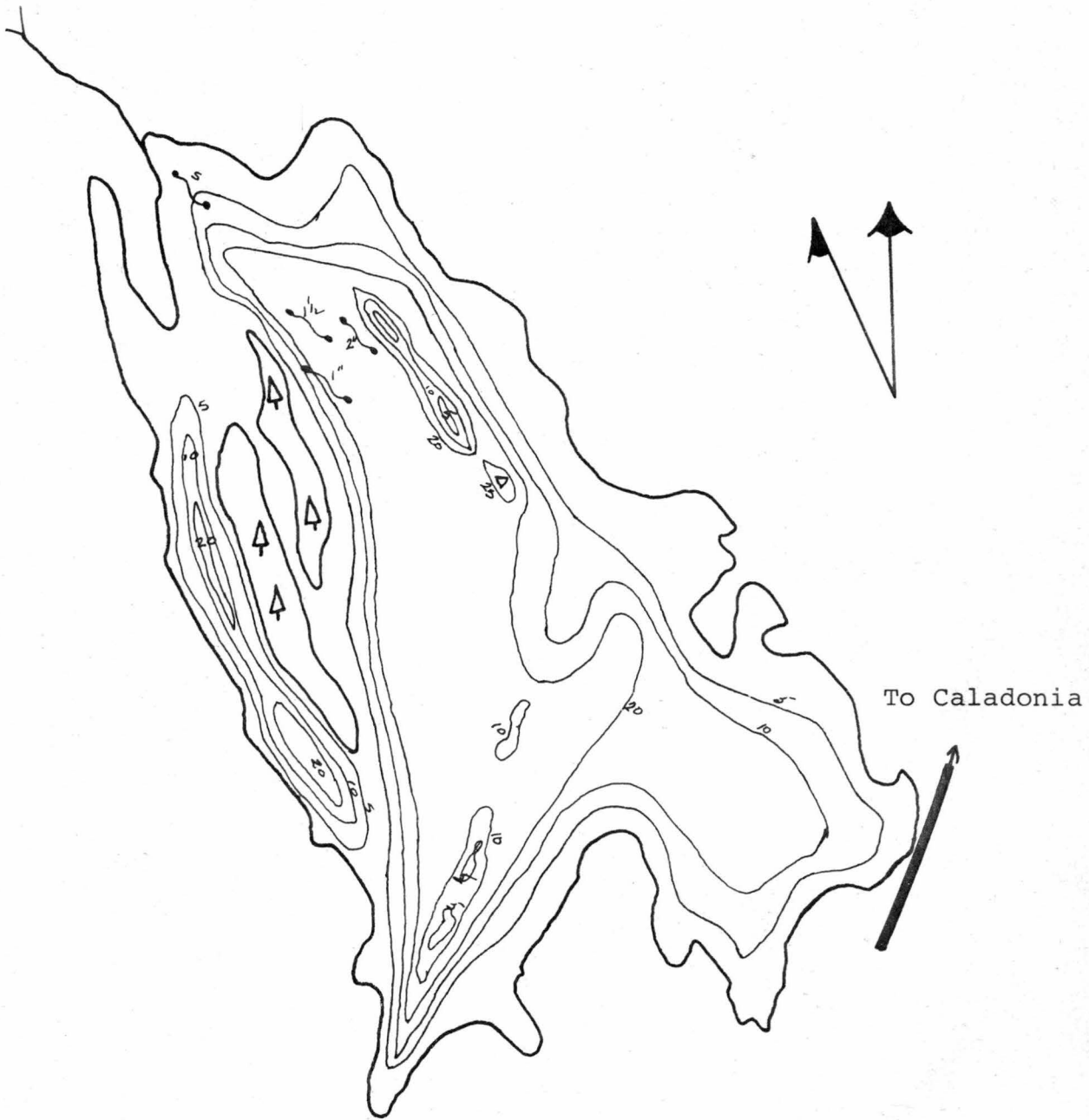
RESULTS: Survey Net - Speckled Trout 1
W. Perch 56
B. Bullhead 58
W. Sucker 23
1 1/2" sq. - Speckled Trout 1
Mesh Net W. Perch 28
W. Sucker 9
1" square - W. Perch 27
Mesh Net W. Sucker 11
2" square - W. Sucker 2
Mesh Net

Speckled Trout - Sex	Fork length	Weight	Age
	11.6"	11.25 oz	2+
	13.5"	11 lb.1.25 oz	3+
	8.6"	2.4 oz	3+

INLET: Unnamed. The inlet flows from Bernie Lake and is approximately 1/4 mile long. At the time of the survey the brook was dry. There is no spawning potential in this stream.





OUTLET: There is not any outlet streams from this lake.

REMARKS: Even though there is not any spawning potential in the inlet stream to the lake, fish could, during a high water, migrate up to Bernie Lake and spawn in the inlet stream to this lake. (see report on Bernie Lake). Turtle Lake has been stocked with trout in 1967, 1968, 1970 and 1971. There is evidence of natural reproduction shown by a 3+ fish and there was no stocking reported in 1969. This lake would lend itself to management because of the quality of the water, the bottom type and the accessibility and its proven productivity.



Turtle Lake, Queens Co., N.S.
Longitude 65°07'45"
Latitude 44°21'45"
Acreage 223.3A
Scale 1:10,000
1"=833.3'

Legend

-  -Gillnet
-  -Water quality station
-  -Wooded Island
-  -Road

VICTORIA LAKE

Queens Co., N.S.

1972

MAP NO: 21A/2 East Half 1:50,000 series
20P/15 East Half 1:50,000 series

LONGITUDE: 64°41'15" LATITUDE: 43°59'45"

ACREAGE: 70.1 A. MAX. DEPTH: 25' AVERAGE DEPTH: 10'

ACCESSIBILITY: Victoria Lake has a road built across a rock bar separating it from the Atlantic Ocean. At one end there is a public boat landing which is approximately 100 feet from the road.

SHORELINE: The shoreline of Victoria Lake is 100% rock ledge and large boulders.

WATERSHED: The watershed of this lake is almost entirely burnt over forest which has become a barren. The western side is pasture land and the southern side is mainly beach rock between it and the ocean.

HYDROGRAPHIC RECORD: Date: June 22/72. Time: 10:00
Air Temp: 14.0°C Location: \triangle - See Map
Color: Dark Brown Secchi Disc 2'

TEMPERATURE PROFILE:

Depth (ft) Surface
Temp. (°C) 14°

1 DO & pH
DO 10.0 ppm
pH 6.1
Temp. 17.0°C

2 DO & pH
DO 10.0 ppm
pH 6.0
Temp. 17.0°C

GILL NET RECORD: Survey Net Set 3' under surface
Time Set: June 22/72 16; hours
Time Hauled: June 23/72 9:00 hours
Results: Brown Trout 3
Speckled Trout 4

Brown Trout	Sex	Length(Fk)	Weight	Age
	♀	13.9 in	18.5 oz	6+
	♂	14.0 in	19.5 oz	9+
Speckled Trout	♂	8.5 in	5.0 oz	1+
	♀	8.8 in	5.25oz	1+

INLET: The inlet to Victoria Lake flows in from Horse Pond. At the time of the survey it was completely dry and because the stream bed is only large boulders there is no spawning potential.

OUTLET: There is not any outlet stream to this lake.

REMARKS: Victoria Lake has stocking reported every year since 1964 with the exception of 1969. It was stocked with brown trout until 1968 and then with speckled trout. The fisheries office in the area says that it was also stocked with rainbow trout and small-mouth bass. This lake is mainly a put and take fishery for people of the Liverpool area.



VICTORIA LAKE - Queens Co., N.S.

To Western Head

Long. - 64°41'15"
Lat. - 43°59'45"
Acreage - 70.1 A.
Scale - 1:8333
1" = 694.4'

Legend:

△ - Water Quality Station

—•— - Gillnet Set