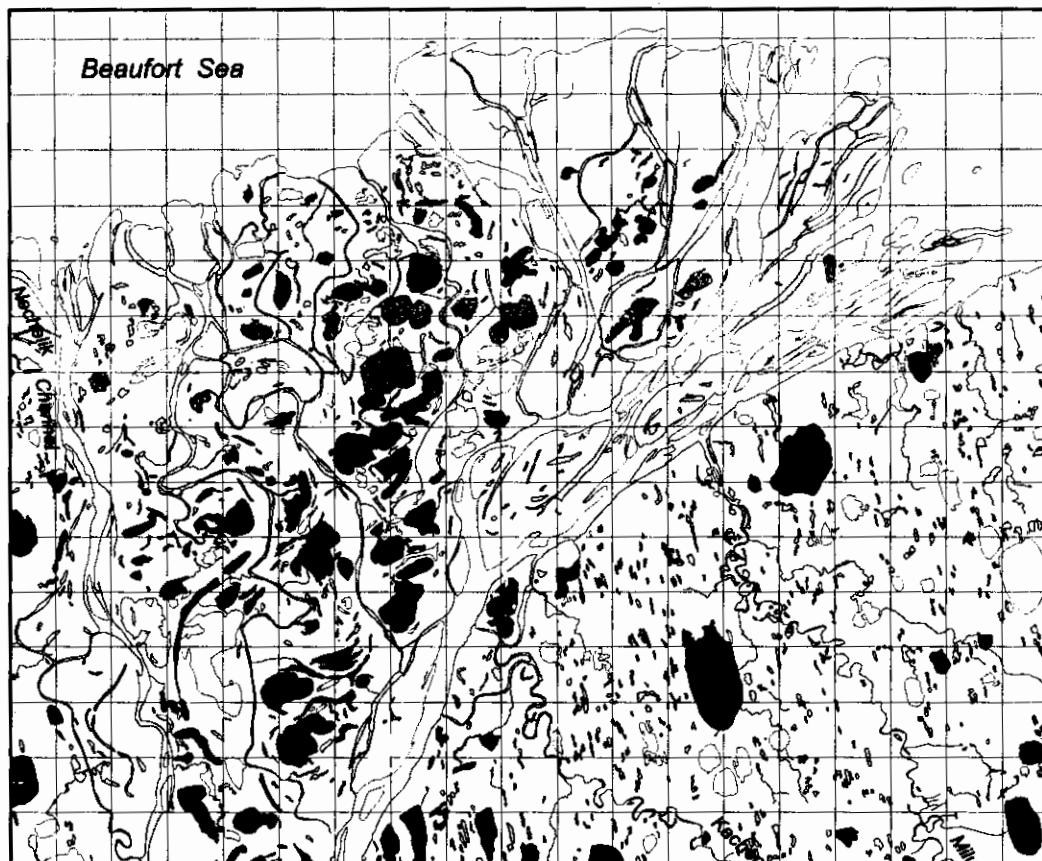


LAKES SAMPLED FOR FISH IN AND NEAR THE COLVILLE RIVER DELTA, ALASKA 1979-1998

Final Report

December 1998



Prepared by:

MJM Research
1012 Shoreland Drive
Lopez Island, WA

Prepared for:

ARCO Alaska, Inc.
700 G Street
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| T7.2 | 2-234 | W9.1 | 2-340 |
| T7.3 | 2-242 | W10.1 | 2-344 |
| T8.1 | 2-248 | X10.1 | 2-344 |
| T8.2 | 2-254 | W20.1 | 2-350 |
| T9.1 | 2-256 | W21.1 | 2-352 |
| T12.1 | 2-260 | W21.2 | 2-354 |
| T26.1 | 2-264 | W26.1 | 2-356 |
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Lakes Sampled for Fish Within and Near the Colville River Delta, Alaska 1979-1998

Introduction

This volume compiles results of sampling for fish at a variety of lakes within or near the Colville Delta from 1979 to 1998. Sampling was conducted and reported by three groups of investigators with diverse objectives. The first systematic sampling was conducted in support of the Outer Continental Shelf Environmental Assessment Program (OCSEAP) during 1979 (McElderry and Craig 1981). The objective of the survey was to assess the importance of various lakes for spawning and overwintering of ciscoes in the Colville River drainage. Sampling conducted in 1985 by Sport Fish Division of Alaska Department of Fish and Game was to determine the diversity and distribution of freshwater fish inhabiting lakes within the Colville Delta and to characterize habitats within the delta used for spawning, rearing and migration by principal fish species (Bendock and Burr 1986). Surveys for presence of fish in lakes within the Kuparuk Field from 1981 to 1983 were reported by Moulton and Dew (1983) and Moulton (1984). Sampling from 1991 to 1998 was conducted as pre-development baseline surveys for potential oilfield development within the delta. Objectives of the studies were to examine fish use of lakes and develop a habitat classification system to assist in evaluating potential development impacts to fishes within the delta. Results of the surveys were reported in Moulton (1994, 1997). Additional surveys of chemical and physical characteristics of delta lakes have been conducted by J. Lobdell from 1991 to 1997, but the results have not been released in report form.

This volume is a presentation of the data collected and contains minimal analysis or synthesis of the information. Section 2 contains information for each lake.

Information contained for each surveyed lake includes:

1. A map of the lake, with the location of bathymetric transects, if any
2. Other names utilized for the same lake

3. Lake location, in latitude/longitude, the USGS quadrangle sheet and the township and range in which the lake is situated
4. Habitat classification
5. Lake area in acres
6. Maximum depth in feet
7. Whether or not there is an active outlet
8. Specific conductance or salinity measurements
9. Calculated volume in gallons
10. The estimated volume of water that could be permitted for withdrawal for winter water use under current regulations
11. Water quality measurements available from the lake
12. Catch record, including gear used, date sampled, fish species caught and size range.
13. Where appropriate data exist, the length frequency of dominant species is plotted.
14. Where data exist, the age-length distribution of least cisco is plotted; a reference growth curve for the anadromous population is included.

15. The depth distribution, in feet, based on bathymetric transects that were recorded.

The lake number is based on the North Slope Emergency Response Grid developed for use by the spill response organizations in the oilfield region. The alphanumeric code indicates the grid that contains the greatest portion of the lake; the decimal value is to separate lakes when more than one lake lies within a grid. The consecutive numbers are assigned from the south and west borders of the grid containing two or more lakes.

Five different lake types are defined, based primarily on the potential for access by fish.

Definitions for the lake types are as follows:

Perched (Frequent Flooding) = Perched lake with an obvious high water channel, likely subject to annual flooding.

Perch (Infrequent Flooding) = Perched lake with no obvious high water channel, likely subject to flooding on an infrequent basis.

Drainage = Drainage Lake, a lake that is part of a defined drainage system, i.e. there is an active connection to a creek.

Tapped = Tapped Lake, a lake with an active connection to a river channel during the summer. The channel is normally a short, low velocity channel formed when the lake was tapped and drained.

Tundra = Tundra Lake, a thaw lake not within or connected to the Colville Delta, little potential for fish access on a regular basis.

Surface area is obtained by digitizing the area covered by water from aerial photographs taken July 23, 1983. For lakes that lie outside the region photographed, the surface area is obtained from

USGS topographical sheets, either by digitizing the area or obtaining the surface area from a GIS program based on the USGS digital map data. The maximum depth is that reported by the various researchers, sometimes based on few measurements. Greater depths may be present.

In most cases, lake volume is calculated as the volume of a cone having the surface area and maximum depth of the lake. In lakes to be used for multiple years of water withdrawal, depth contours are estimated and volume is calculated based on the surface area of the contours.

Depth transects were measured at various times from 1995 to 1998. Depths measured during summer (1995-1998) were read with an Eagle SupraPro ID depth sounder. During winter 1998, depths were measured through the ice with a Polar Vision hand-held sonar unit. Both sonar units were checked against a measuring tape in 24 ft of water and found to be highly accurate. Error was less than 0.1 ft.

Transect positions were determined by marking the beginning and end locations of the transects on base maps of the lakes. Individual depth measurements were located with a hand-held GPS receiver while traversing the lake with either a boat or float tube. The readings were converted to distance measurements and the resulting points were plotted on the known location of the transect. During winter, the transect was again determined by marking the beginning and end locations of the transects on base maps of the lakes. GPS coordinates of the end points were also recorded. The individual depth readings were a measured distance apart, with the distance between measurements varying with the size of the lake.

Depth measurements were plotted on base maps of each lake. Initial plots of transects obtained during summer appeared erratic because of error caused by U.S. Department of Defense scrambling of the civilian GPS signal. Transects were manually smoothed to better represent the course covered by the boat or float tube.

Contours were drawn around regions containing depths greater than the indicated contour line. The area encompassed by each contour was then obtained from the GIS program used to generate

the contour plot. Total estimated volume was obtained by summing the volumes represented by each contour interval. Estimated volumes were calculated as cubic feet and gallons.

Permittable volume, ie. the volume likely to be allowed for withdrawal during winter, is presently defined as 15% of the estimated water volume deeper than 7 feet in lakes that are known or expected to contain fish. Alaska Department of Fish and Game established this guideline to allow water withdrawal during winter while attempting to minimize effects to wintering fish. Additional water is often available if a lake does not provide fish habitat.

Water quality parameters were measured at lakes evaluated for potential water withdrawal. Most of these measurements were by J. Lobdell, of Lobdell and Associates. Water quality parameters for those lakes surveyed for fish are included in this report; but additional information on lakes not sampled for fish are available from Lobdell and Associates.

Fish surveys used various gear types, but most common were variable mesh gill nets. Mesh sizes were not standard across all studies, typically ranging from around 1 inch to 3.5 inches stretched mesh. From 1979 to 1995 the nets were typically set overnight. In 1996, gillnets were normally fished for 4 to 6 hours. In 1995, fyke nets were used to minimize entangling waterfowl. Setlines and minnow traps were used to identify the presence of species that may not be vulnerable to fyke nets.

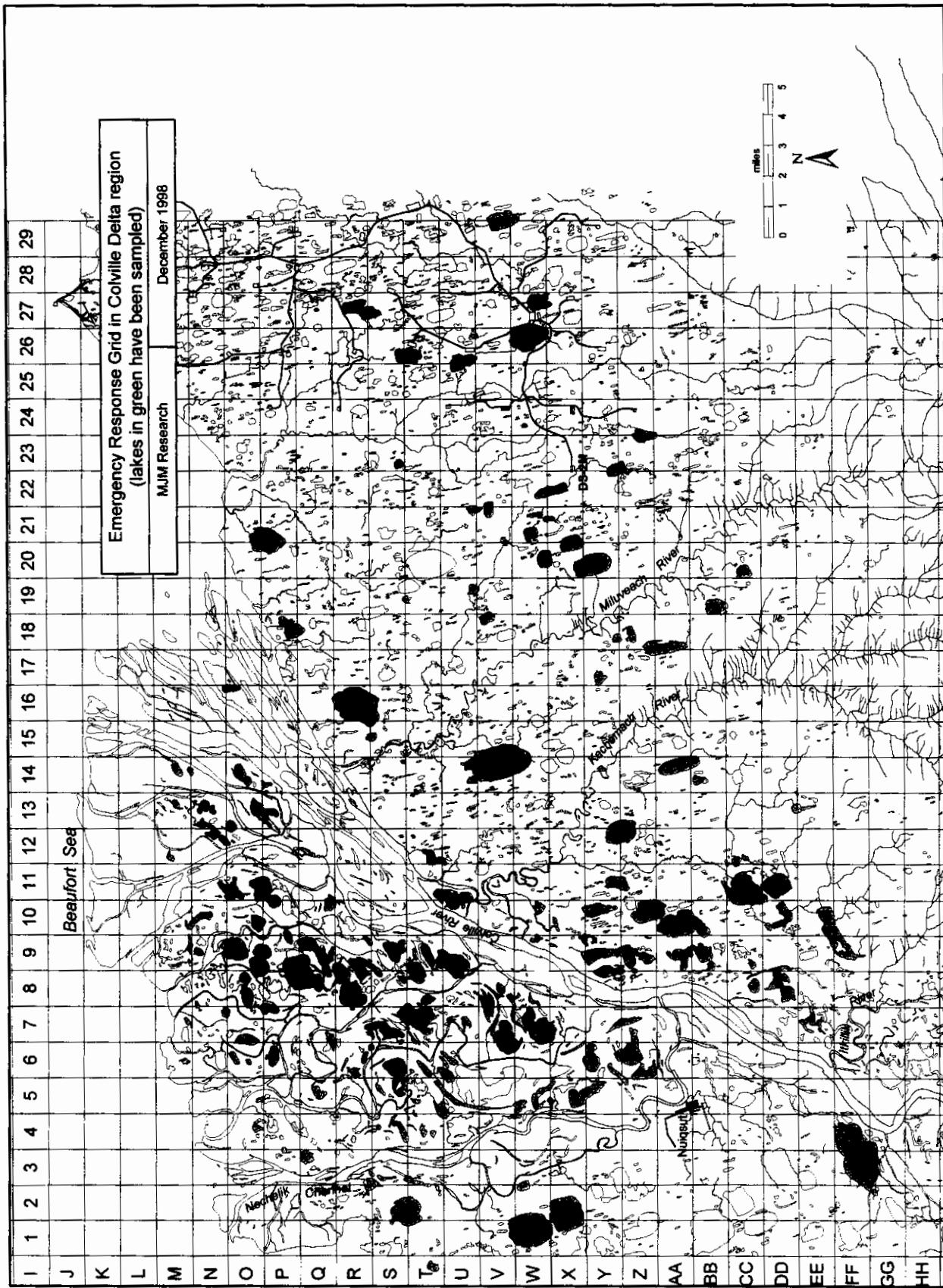
Results and Discussion

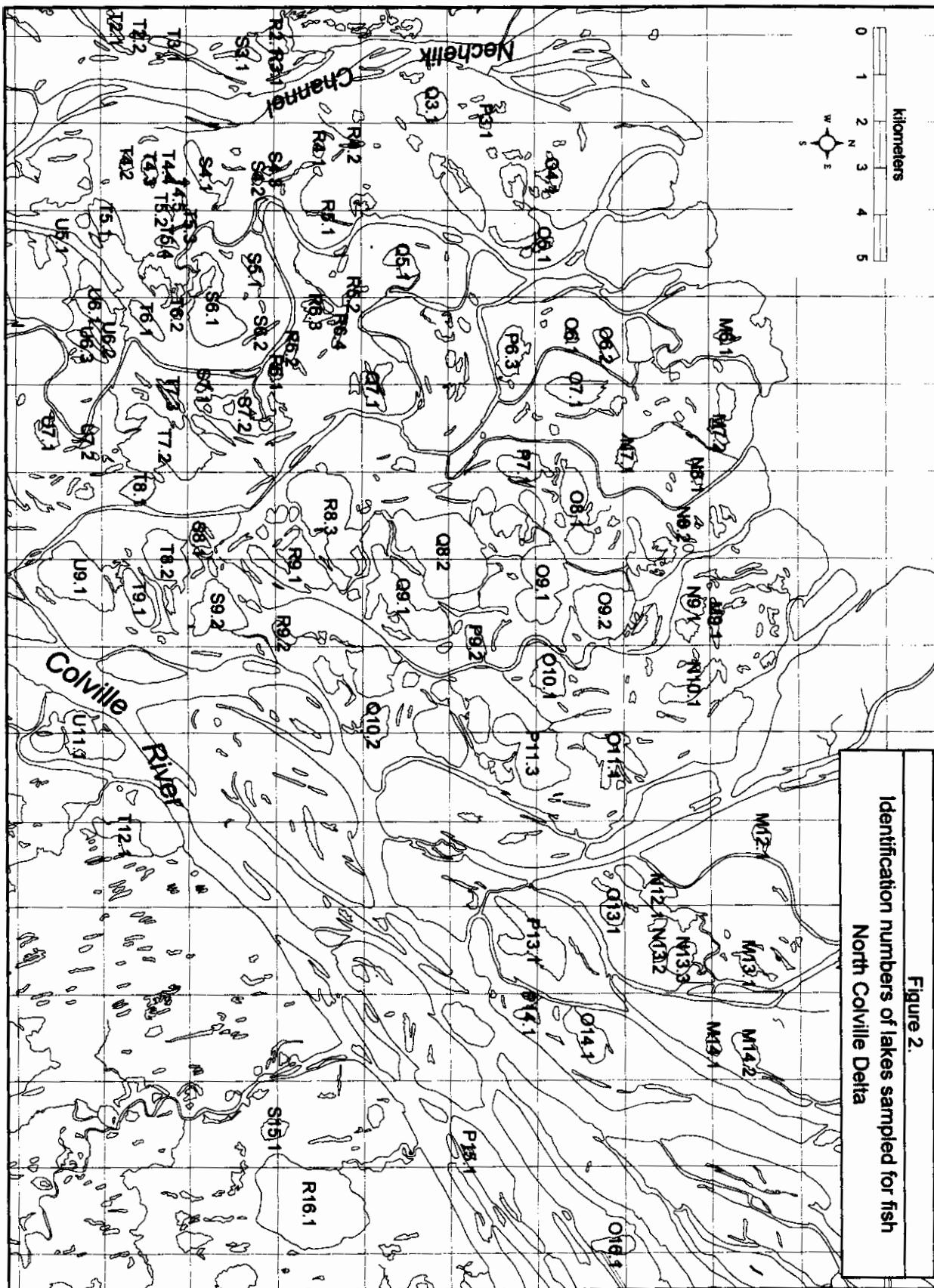
Through 1998, fish sampling has been conducted on 153 lakes in or near the Colville River delta (Figures 1 to 4). Perched lakes (both frequent and infrequent flooding) are typically greater than 8 feet deep and present the greatest opportunity for continuous fish habitation (Table 1). Drainage and tapped lakes are typically shallower, with some deep enough to provide overwintering opportunities. The active connection to the river channels during summer in these two lake types provides access and allows high use during this season. Tundra lakes tend to be too shallow to support fish year-round, and lack of access restricts seasonal use.

Eighteen species have been identified from lakes within the study region (Table 2). Aside from ninespine stickleback, least cisco are the most abundant species, both in frequency of occurrence and total numbers. Least cisco occur in over 75% of all lakes sampled, and are abundant in all lake types except tundra lakes. Least cisco dominate in perched lakes, accounting for over 80% of the non-stickleback catch (Table 3).

While ninespine stickleback dominated the catch numbers from 1991 to 1998 and are the only species found within tundra lakes, their representation is understated because they are not vulnerable to gillnets. Almost all information regarding ninespine stickleback distribution and abundance is from fyke net sampling in 1995. They are likely present in all perched, drainage and tapped lakes, and in a high percentage of the tundra lakes. Alaska blackfish are likely under-represented for the same reasons.

Tables summarizing sampling effort, keys to lake identification numbers, and species captured are included (Tables 4 to 7). The amount of water available for water use is estimated (Table 8), with an analysis of fish presence and whether fish habitat is likely to be a concern. Water quality parameters are also summarized (Table 9).





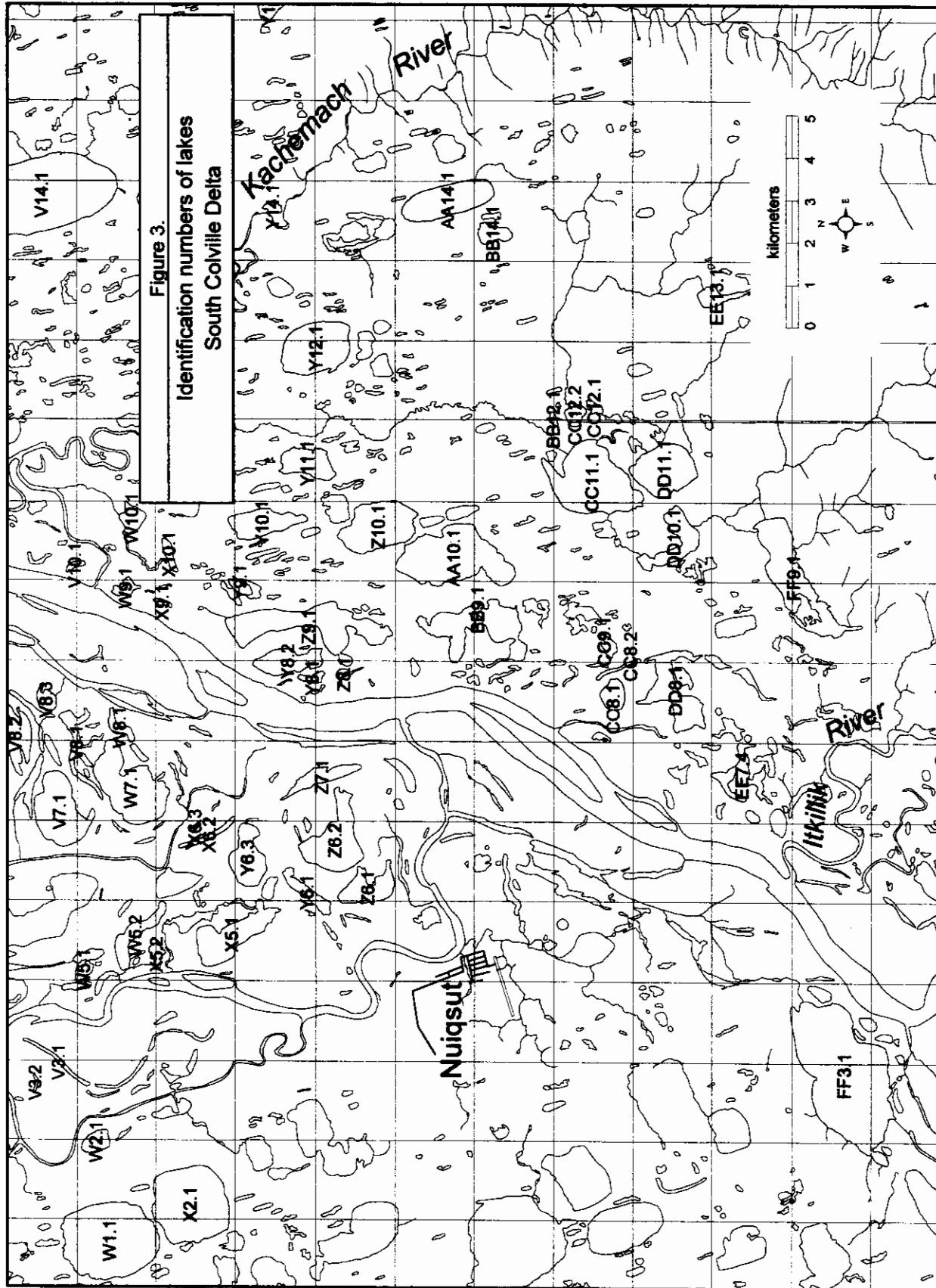


Figure 4. Identification numbers of lakes sampled for fish
Kuparuk Region

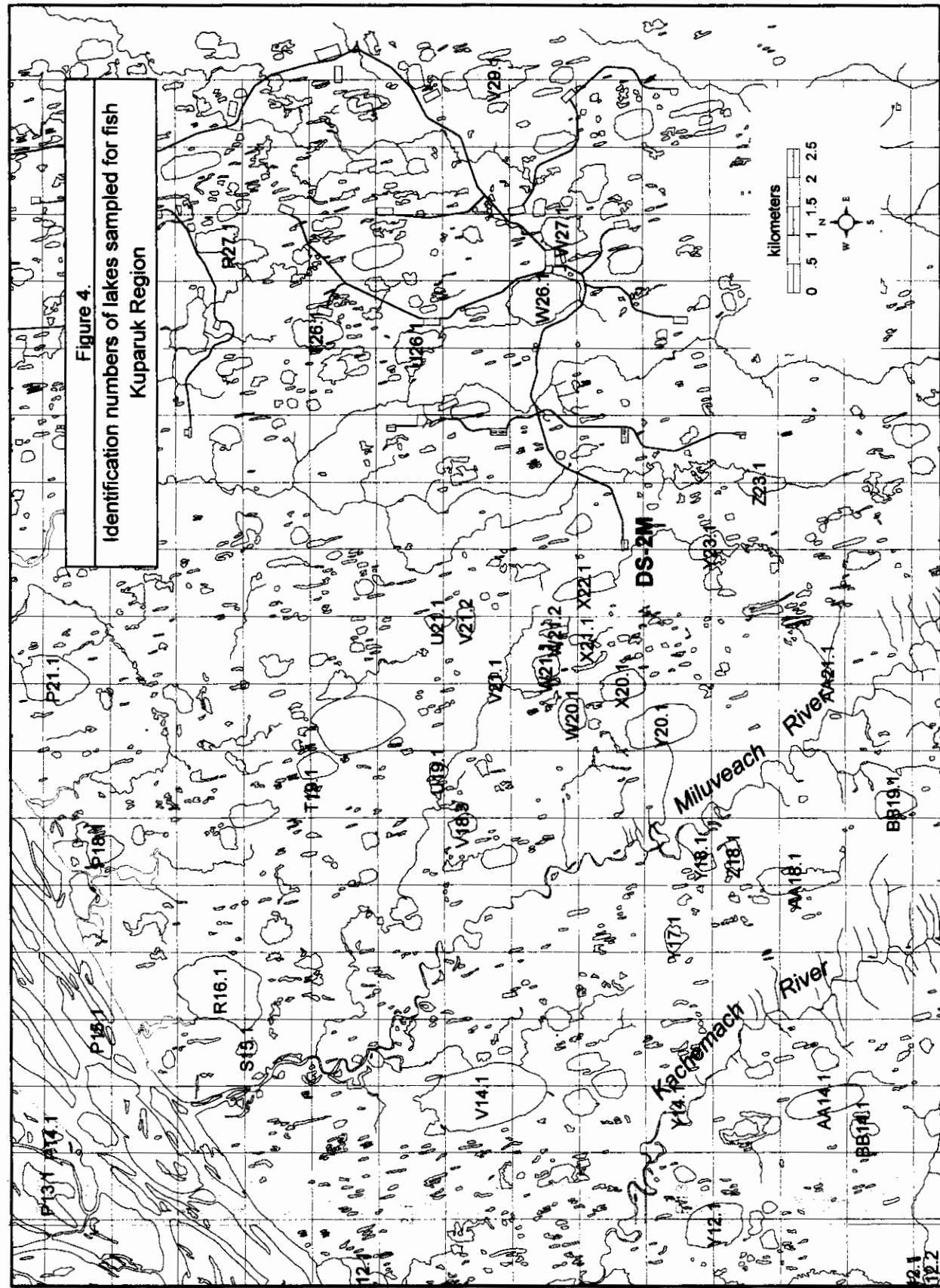


Table 1. Maximum depths by lake type for 176 lakes in or near the Colville Delta (values are the percent of lakes in each type falling within the depth category).

| Lake Type: | | | | | |
|----------------------|---------------------------|-----------------------------|----------|--------|--------|
| Maximum Depth (feet) | Perched Frequent Flooding | Perched Infrequent Flooding | Drainage | Tapped | Tundra |
| <8 feet | 0 | 9.6 | 63.6 | 40 | 93.5 |
| 8-12 feet | 48.0 | 30.1 | 27.2 | 33.3 | 6.5 |
| 12-16 feet | 32.0 | 32.5 | 0 | 20.0 | 0 |
| >16 feet | 20.0 | 27.7 | 9.1 | 6.7 | 0 |
| Total: | 25 | 83 | 22 | 15 | 31 |

Table 2. Species occurrence by lake type in 153 surveyed lakes (values indicate the percentage of lakes for a given type in which each species was caught).

| Species Caught | Lake Type | | | | |
|------------------------|-------------------|---------------------|----------|--------|--------|
| | Perched | | Drainage | Tundra | Tapped |
| | Frequent Flooding | Infrequent Flooding | | | |
| Least cisco | 64.0 | 77.3 | 47.4 | 0.0 | 78.9 |
| Arctic cisco | 28.0 | 4.5 | 0.0 | 0.0 | 42.1 |
| Broad whitefish | 52.0 | 45.5 | 36.8 | 0.0 | 84.2 |
| Humpback whitefish | 12.0 | 6.1 | 5.3 | 0.0 | 36.8 |
| Round whitefish | 12.0 | 9.1 | 31.6 | 0.0 | 31.6 |
| Arctic grayling | 0.0 | 1.5 | 57.9 | 0.0 | 15.8 |
| Dolly Varden char | 0.0 | 0.0 | 0.0 | 0.0 | 5.3 |
| Rainbow smelt | 0.0 | 0.0 | 0.0 | 0.0 | 36.8 |
| Burbot | 4.0 | 4.5 | 5.3 | 0.0 | 10.5 |
| Northern pike | 8.0 | 1.5 | 0.0 | 0.0 | 0.0 |
| Alaska blackfish | 28.0 | 22.7 | 15.8 | 4.2 | 0.0 |
| Longnose sucker | 0.0 | 3.0 | 5.3 | 0.0 | 15.8 |
| Saffron cod | 0.0 | 0.0 | 0.0 | 0.0 | 5.3 |
| Fourhorn sculpin | 4.0 | 0.0 | 0.0 | 0.0 | 47.4 |
| Slimy sculpin | 0.0 | 7.6 | 0.0 | 0.0 | 0.0 |
| Arctic flounder | 0.0 | 0.0 | 0.0 | 0.0 | 10.5 |
| Ninespine stickleback | 28.0 | 36.4 | 21.1 | 25.0 | 21.1 |
| Threespine stickleback | 0.0 | 0.0 | 0.0 | 0.0 | 5.3 |
| No. of Species: | 10 | 12 | 9 | 2 | 15 |
| Total Lakes Sampled: | 25 | 66 | 19 | 24 | 19 |

Table 3. Catch composition in percent of total catch for each lake type, 1991 to 1998 catches only
 (all gear types combined, ninespine sticklebacks excluded).

| Species Caught ¹ | Lake Type | | | |
|-----------------------------|---------------------------|-----------------------------|----------|--------|
| | Perched Frequent Flooding | Perched Infrequent Flooding | Drainage | Tapped |
| Least cisco | 91.7 | 81.7 | 32.5 | 35.7 |
| Arctic cisco | 0.8 | 1.0 | 0.0 | 0.2 |
| Broad whitefish | 3.0 | 9.0 | 8.1 | 41.6 |
| Humpback whitefish | 0.1 | 0.2 | 1.3 | 5.7 |
| Round whitefish | 0.6 | 0.8 | 5.0 | 10.3 |
| Arctic grayling | 0.0 | 0.1 | 45.6 | 0.6 |
| Rainbow smelt | 0.0 | 0.0 | 0.0 | 3.5 |
| Burbot | 0.1 | 0.3 | 0.0 | 0.1 |
| Northern pike | 0.2 | 0.1 | 0.0 | 0.0 |
| Alaska blackfish | 3.5 | 4.8 | 7.5 | 0.0 |
| Longnose sucker | 0.0 | 0.2 | 0.0 | 0.9 |
| Fourhorn sculpin | 0.1 | 0.0 | 0.0 | 1.3 |
| Slimy sculpin | 0.0 | 1.8 | 0.0 | 0.0 |
| Arctic flounder | 0.0 | 0.0 | 0.0 | 0.0 |
| Threespine stickleback | 0.0 | 0.0 | 0.0 | 0.02 |
| Total Caught: | 1,265 | 1,431 | 160 | 5,676 |

¹ ninespine sticklebacks omitted from all calculations in this table, accounted for 31,819 of 40,351 fish caught (78.9%).

Table 4. Sampling effort by gear type for lakes in or near the Colville Delta, 1979-1998
 (sampling effort in hours).

| Lake Number | Date | Multi-Mesh Gill Net | Fyke Net | Minnow Trap | Setline |
|-------------|-----------------|------------------------|----------|----------------|---------|
| M7.2 | Aug 8, 1997 | 12.0 | | 11.9 | |
| M12.1 | Nov 1, 1992 | 27.5 | | | |
| M13.1 | Nov 3, 1992 | 25.0 | | | |
| M14.1 | Oct 28, 1993 | 22.3 | | 22.3 | |
| M14.2 | Oct 30, 1992 | 46.5 | | | |
| N7.1 | Nov 4, 1992 | 26.0 | | | |
| N8.1 | Nov 4, 1992 | 30.5 | | | |
| N10.1 | Nov 2, 1992 | 23.0 | | | |
| N12.1 | Jul 16-19, 1985 | ~24 | | | |
| | Nov 3, 1991 | 23.0 | | | |
| | Nov 5, 1991 | 48.0 | | | |
| N13.2 | Oct 31, 1992 | 18.5 | | | |
| N13.3 | Jul 16-19, 1985 | ~24 | | | |
| | Oct 31, 1992 | 22.0 | | | |
| O4.1 | Jul 23, 1997 | 11.0 | | 9.5 | |
| O5.1 | Jul 22, 1997 | 10.5 | | 10.1 | |
| O6.1 | Aug 7-8, 1997 | 11.6 | | | |
| O6.2 | Aug 7-8, 1997 | 11.8 | | | |
| O7.1 | Nov 5, 1993 | 20.7 | | 20.7 | |
| O8.1 | Nov 5, 1993 | 22.0 | | 22.0 | |
| | Aug 11, 1997 | 2.9 | | 12.0 | |
| O9.1 | Jul 16-19, 1985 | ~24 | | | |
| O9.2 | Sep 8, 1979 | 23.2 | | | |
| | Sep 9, 1979 | 25.0 | | | |
| | Sep 9, 1979 | 25.0 | | | |
| | Sep 9, 1979 | 24.6 | | | |
| O10.1 | Nov 2, 1992 | 20.5 | | | |
| O11.1 | Jul 16-19, 1985 | ~24 | | | |
| | Nov 6, 1991 | 22.0 | | | |
| | Nov 7, 1991 | 24.0 | | | |
| O13.1 | Oct 28, 1993 | 19.2 | | | |
| O14.1 | Jul 16-19, 1985 | ~24 | | | |
| | Nov 7, 1992 | 23.0 | | | |
| P3.1 | Jul 22, 1997 | 10.0 | | 10.0 | |
| P6.3 | Nov 5, 1992 | 22.0 | | | |
| P7.1 | Nov 5, 1992 | 20.0 | | | |
| | Aug 11, 1997 | 4.7 | | 12.7 | |
| P9.2 | Nov 5, 1991 | 48.0 | | | |
| | Nov 6, 1991 | 22.0 | | | |
| P11.3 | Sep 9, 1979 | 19.3 | | | |
| | Nov 6, 1991 | 21.0 | | | |
| P13.1 | Jul 16-19, 1985 | ~24 | | | |
| P14.1 | Oct 28, 1993 | 21.6 | | 21.6 | |
| P15.1 | Oct 31, 1993 | 70.5 | | 70.5 | |
| P18.1 | Jul 16-19, 1985 | ~24 | | | |
| P21.1 | Sep 5, 1979 | ? | | | |
| Q3.1 | Jul 21, 1997 | 9.9 | | 21.0 | |
| | Aug 3, 1997 | 10.8 | | | |

Table 4. Sampling effort by gear type for lakes in or near the Colville Delta, 1979-1998
(sampling effort in hours).

| Lake Number | Date | Multi-Mesh Gill Net | Fyke Net | Minnow Trap | Setline |
|-------------|--------------------|---------------------|----------|-------------|---------|
| Q5.1 | Aug 15, 1996 | 8.5 | | | |
| Q7.1 | Aug 2, 1997 | 6.5 | | 12.3 | |
| Q8.2 | Sep 8, 1979 | 65.3 | | | |
| Q9.1 | Sep 9, 1979 | 15.0 | | | |
| Q10.2 | Nov 4, 1993 | 19.3 | | | |
| R4.1 | Jul 18, 1997 | 6.6 | | 12.7 | |
| R4.2 | Jul 19, 1997 | 10.8 | | 16.3 | |
| R5.1 | Aug 14, 1996 | 11.0 | | | |
| R5.2 | Aug 16, 1996 | 8.0 | | | |
| R6.1 | Aug 3, 1996 | 11.2 | | | |
| R6.2 | Jul 13-Aug 4, 1995 | | 541.2 | | |
| R6.3 | Jul 10, 1995 | | | 42.4 | |
| | Jul 11, 1995 | | 25.6 | | |
| | Jul 27, 1995 | | 21.0 | | 26.3 |
| | Jul 28, 1995 | | 21.1 | | |
| | Nov 5, 1995 | 21.0 | | | |
| R6.4 | Jul 17, 1995 | | 21.4 | 44.3 | 22.1 |
| | Nov 6, 1995 | 23.1 | | | |
| R8.3 | Sep 8, 1979 | 20.8 | | | |
| | Nov 9, 1991 | 44.0 | | | |
| R9.1 | Jul 16-19, 1985 | ~24 | | | |
| | Aug 6, 1997 | 11.0 | | 10.6 | |
| R9.2 | Nov 4, 1993 | 21.7 | | 21.7 | |
| R16.1 | Sep 5, 1979 | 20.0 | | | |
| R27.1 | Aug 21, 1983 | ~48 | | | |
| S2.1 | Aug 9, 1997 | 16.7 | | 11.8 | |
| S4.1 | Jul 16-19, 1985 | ~24 | | | |
| | Jul 17, 1995 | | 23.7 | 48.3 | 23.8 |
| | Aug 12, 1996 | 11.7 | | | |
| S4.2 | Jul 16, 1997 | 19.7 | | 12.0 | |
| S5.1 | Jul 12, 1995 | | 20.3 | 40.6 | |
| | Jul 13, 1995 | | | | 24.1 |
| | Aug 10, 1996 | 11.3 | | | |
| S6.1 | Jul 15, 1995 | | 24.3 | 48.1 | 24.7 |
| S6.2 | Jul 10, 1995 | | | 37.8 | |
| | Jul 11, 1995 | | 28.0 | | |
| | Jul 12, 1995 | | | | 21.4 |
| | Jul 27, 1995 | | 24.1 | | |
| | Jul 28, 1995 | | 17.6 | | |
| | Nov 5, 1995 | 22.0 | | | |
| S7.1 | Aug 13, 1996 | 12.6 | | | |
| S7.2 | Jul 9-Aug 4, 1995 | | 641.3 | 41.8 | 21.1 |
| S8.1 | Nov 3, 1993 | 22.5 | | 22.5 | |
| S9.2 | Nov 3, 1993 | 20.3 | | 20.3 | |
| T2.2 | Aug 12, 1997 | 6.8 | | 6.1 | |
| T3.1 | Aug 12, 1997 | 9.0 | | | 8.0 |
| T4.2 | Jul 23, 1995 | | 44.9 | 89.6 | 44.5 |
| | Aug 2, 1997 | 3.9 | | 11.7 | |

Table 4. Sampling effort by gear type for lakes in or near the Colville Delta, 1979-1998
 (sampling effort in hours).

| Lake Number | Date | Multi-Mesh Gill Net | Fyke Net | Minnow Trap | Setline |
|-------------|-----------------|---------------------|----------|-------------|---------|
| T4.3 | Jul 18, 1995 | | 22.4 | 44.8 | 22.4 |
| | Aug 11, 1996 | 11.5 | | | |
| T4.4 | Jul 16, 1995 | | 22.1 | 44.4 | 22.1 |
| T4.5 | Jul 15, 1995 | | 17.1 | 34.5 | 17.0 |
| T5.1 | Jul 18, 1995 | | 21.2 | 42.3 | 21.3 |
| T5.2 | Jul 16, 1995 | | 23.3 | 46.2 | 23.2 |
| | Jul 17, 1995 | | 23.6 | | |
| T5.3 | Jul 14, 1995 | | 24.2 | 48.0 | 24.0 |
| T5.4 | Jul 15, 1995 | | 16.7 | 16.4 | 16.7 |
| | Nov 6, 1995 | 22.3 | | | |
| T6.1 | Jul 14, 1995 | | 23.3 | | |
| | Jul 15, 1995 | | | 43.2 | 21.6 |
| | Jul 16, 1995 | | | | 24.3 |
| | Jul 26, 1995 | | 20.7 | | |
| | Nov 1, 1995 | 20.6 | | | |
| | Aug 8, 1996 | 9.1 | | | |
| | Jul 11-15, 1997 | | 117.8 | | |
| T6.2 | Jul 16, 1995 | | 21.7 | 43.2 | 21.3 |
| T7.2 | Jul 16-19, 1985 | ~24 | | | |
| | Jul 19, 1995 | | 20.5 | 40.5 | 20.1 |
| | Aug 9, 1996 | 10.1 | | | |
| | Jul 17-24, 1998 | | 552.4 | | |
| T7.3 | Jul 12, 1995 | | 19.9 | 41.2 | 19.9 |
| | Jul 13, 1995 | | 23.2 | | |
| | Jul 24, 1995 | | 18.5 | | |
| | Nov 3, 1995 | 23.7 | | | |
| T8.1 | Jul 19, 1995 | | 20.9 | 41.6 | 20.8 |
| T8.2 | Jul 16-19, 1985 | ~24 | | | |
| T9.1 | Nov 2, 1993 | 20.5 | | 20.5 | |
| T12.1 | Oct 31, 1993 | 73.5 | | 73.5 | |
| T26.1 | Aug 24, 1981 | ~24 | | | |
| U5.1 | Jul 18, 1995 | | 23.0 | 46.0 | 23.1 |
| U6.1 | Jul 14, 1995 | | 23.9 | 48.6 | 23.5 |
| | Jul 26, 1995 | | 20.0 | | |
| | Nov 2, 1995 | 21.7 | | | |
| | Jul 11-15, 1997 | | 116.6 | | |
| U6.2 | Jul 13, 1995 | | 22.6 | 38.6 | 22.7 |
| | Jul 25, 1995 | | 26.9 | | |
| | Nov 2, 1995 | 20.8 | | | |
| | Jul 12-15, 1997 | 4.7 | 92.8 | | |
| U6.3 | Jul 13, 1995 | | 18.3 | 37.4 | 18.1 |
| | Jul 26, 1995 | | 20.3 | | |
| | Nov 3, 1995 | 22.7 | | | |
| | Jul 12-15, 1997 | 4.9 | 94.6 | | |
| U7.1 | Jul 26, 1995 | | | | 20.3 |
| U7.2 | Jul 26, 1995 | | | | 20.3 |
| U9.1 | Jul 16-19, 1985 | ~24 | | | |
| U11.1 | Nov 2, 1993 | 21.8 | | 21.8 | |

Table 4. Sampling effort by gear type for lakes in or near the Colville Delta, 1979-1998
 (sampling effort in hours).

| Lake Number | Date | Multi-Mesh Gill Net | Fyke Net | Minnow Trap | Setline |
|-------------|-----------------|---------------------|----------|-------------|---------|
| U26.1 | Aug 24, 1981 | ~24 | | | |
| V7.1 | Jul 16-19, 1985 | ~24 | | | |
| | Jul 31, 1996 | 8.0 | | | |
| V8.1 | Jul 31, 1996 | 5.9 | | | |
| V8.2 | Aug 5, 1997 | 4.9 | | 13.4 | |
| V8.3 | Jul 31, 1996 | 6.1 | | | |
| V14.1 | Sep 5, 1979 | 100.0 | | | |
| | Jul 30, 1995 | | 42.2 | 84.9 | 42.0 |
| V21.1 | Aug 3, 1995 | | 52.2 | 104.3 | 52.0 |
| V21.2 | Aug 3, 1995 | | 52.2 | 103.8 | 52.0 |
| V29.1 | Aug 24, 1981 | ~24 | | | |
| W5.1 | Jul 21, 1996 | 5.6 | | | |
| W5.2 | Jul 21, 1996 | 11.5 | | | |
| W7.1 | Sep 7, 1979 | 22.5 | | | |
| W8.1 | Aug 4, 1997 | 10.0 | | 12.5 | |
| W9.1 | Jul 19, 1995 | | 22.8 | 45.2 | 22.3 |
| | Jul 16-17, 1997 | | 44.0 | | |
| W10.1 | Jul 20, 1995 | | 22.7 | 44.6 | 22.5 |
| W20.1 | Aug 1, 1995 | | 22.3 | 44.7 | 22.1 |
| W21.1 | Aug 1, 1995 | | 21.5 | 42.7 | 21.8 |
| W21.2 | Aug 4, 1995 | | 19.1 | 38.2 | 19.1 |
| W26.1 | Aug 24, 1981 | ~24 | | | |
| | Jul 30, 1982 | 66.0 | | | |
| W27.1 | Aug 24, 1981 | ~24 | | | |
| X5.1 | Jul 16-19, 1985 | ~24 | | | |
| X6.2 | Jul 20, 1996 | 9.9 | | | |
| X9.1 | Jul 20, 1995 | | 23.4 | 45.1 | 22.8 |
| X10.1 | Jul 20, 1995 | | 20.3 | 40.6 | 20.1 |
| X20.1 | Jul 31, 1995 | | 23.1 | 46.2 | 23.0 |
| X21.1 | Aug 4, 1995 | | 16.2 | 32.1 | 16.2 |
| X22.1 | Aug 3, 1995 | | 46.0 | 92.0 | 45.6 |
| Y6.1 | Jul 19, 1996 | 13.3 | | | |
| Y6.3 | Jul 20, 1996 | 11.2 | | | |
| Y8.2 | Jul 21, 1995 | | 23.2 | 46.1 | 23.0 |
| Y9.1 | Jul 25, 1995 | | 119.5 | 239.0 | 120.4 |
| Y10.1 | Aug 4, 1995 | | 18.5 | 36.5 | 18.1 |
| Y11.1 | Jul 27, 1996 | 12.8 | | | |
| Y12.1 | Jul 29, 1996 | 11.1 | | | |
| Y14.1 | Jul 30, 1996 | 12.0 | | | |
| Y20.1 | Jul 31, 1995 | | 22.4 | 44.7 | 22.1 |
| Z6.1 | Jul 25, 1996 | 2.6 | | | |
| Z6.2 | Jul 16-19, 1985 | ~24 | | | |
| | Jul 25, 1996 | 2.5 | | | |
| Z7.1 | Jul 19, 1996 | 11.8 | | | |
| Z8.1 | Jul 25, 1995 | | 94.8 | 191.7 | 95.9 |
| Z9.1 | Jul 21, 1995 | | 24.2 | 47.7 | 24.1 |
| Z9.1 | Jul 24, 1996 | 11.3 | | | |
| Z10.1 | Jul 17, 1996 | 4.1 | | | |

Table 4. Sampling effort by gear type for lakes in or near the Colville Delta, 1979-1998
 (sampling effort in hours).

| Lake Number | Date | Multi-Mesh Gill Net | Fyke Net | Minnow Trap | Setline |
|-------------|--------------|---------------------|----------|-------------|---------|
| Z18.1 | Jul 30, 1996 | 11.2 | | | |
| AA10.1 | Jul 26, 1996 | 10.7 | | | |
| AA14.1 | Jul 18, 1996 | 4.3 | | | |
| AA18.1 | Jul 18, 1996 | 4.8 | | | |
| BB9.1 | Jul 17, 1996 | 8.1 | | | |
| | Jul 27, 1996 | 10.9 | | | |
| CC8.1 | Jul 22, 1996 | 5.6 | | | |
| CC8.2 | Jul 22, 1996 | 5.5 | | | |
| CC9.1 | Jul 26, 1996 | 11.8 | | | |
| CC11.1 | Sep 5, 1979 | 66.7 | | | |
| | Jul 28, 1996 | 5.3 | | | |
| DD8.1 | Jul 22, 1996 | 9.2 | | | |
| DD10.1 | Sep 6, 1979 | ? | | | |
| | Jul 23, 1996 | 11.6 | | | |
| DD11.1 | Jul 28, 1996 | 3.8 | | | |
| EE7.4 | Jul 25, 1996 | 11.7 | | | |
| FF3.1 | Sep 6, 1979 | 65.2 | | | |
| FF9.1 | Sep 6, 1979 | ? | | | |
| | Jul 28, 1996 | 12.7 | | | |

Table 5. Key to lakes within or near the Colville Delta surveyed for fish, 1979-1998. (ERG number corresponds to the grid number of the Alaska Clean Seas Emergency Response Map).

| ERG Number | Researcher Number ¹ | Lobdell Number | Moulton Number | ERG Number | Researcher Number ¹ | Lobdell Number | Moulton Number |
|------------|--------------------------------|----------------|----------------|------------|--------------------------------|----------------|----------------|
| M7.2 | M9714 | | M9714 | R6.4 | M9321 | | M9321 |
| M12.1 | L9201 | L9201 | M9207 | R8.3 | MC7913 | | M9111 |
| M13.1 | L9101 | L9101 | M9204 | R9.1 | B8537 | L9350 | |
| M14.1 | L9102 | L9102 | M9301 | R9.2 | L9349 | L9349 | M9310 |
| M14.2 | L9103 | L9103 | M9203 | R16.1 | MC7902 | L9112 | |
| N7.1 | M9211 | | M9211 | R27.1 | M8301 | | M8301 |
| N8.1 | L9208 | L9208 | M9210 | S2.1 | L9501 | L9501 | |
| N10.1 | L9203 | L9203 | M9208 | S4.1 | B8533 | L9315 | |
| N12.1 | B8543 | L9202 | M9102 | S4.2 | M9701 | | M9701 |
| N13.2 | M9206 | | M9206 | S4.3 | M9702 | | M9702 |
| N13.3 | B8542 | L9104 | M9205 | S5.1 | L9280 | L9280 | |
| O4.1 | M9708 | | M9708 | S6.1 | L9278 | L9278 | |
| O5.1 | M9707 | | M9707 | S6.2 | L9279 | L9279 | |
| O6.1 | M9713 | | M9713 | S7.1 | M9623 | | M9623 |
| O6.2 | M9712 | | M9712 | S7.2 | M9521 | | M9521 |
| O7.1 | M9313 | | M9313 | S8.1 | L9277 | L9277 | M9309 |
| O8.1 | L9107 | L9107 | M9312 | S9.2 | L9110 | L9110 | M9308 |
| O9.1 | B8538 | L9105 | | T2.2 | M9716 | | M9716 |
| O9.2 | MC7915 | L9206 | | T4.2 | L9322 | L9322 | |
| O10.1 | L9109 | L9109 | M9209 | T4.3 | L9321 | L9321 | |
| O11.1 | B8539 | | M9106 | T4.4 | L9320 | L9320 | |
| O13.1 | M9302 | | M9302 | T4.5 | L9319 | L9319 | |
| O14.1 | B8541 | | M9201 | T5.1 | M9524 | | M9524 |
| O16.1 | B8544 | | | T5.2 | L9317 | L9317 | |
| P3.1 | M9706 | | M9706 | T5.3 | L9318 | L9318 | |
| P6.3 | L9210 | L9210 | M9213 | T5.4 | L9316 | L9316 | |
| P7.1 | L9108 | L9108 | M9212 | T6.1 | L9313 | L9313 | |
| P9.2 | M9105 | | M9105 | T6.2 | L9314 | L9314 | |
| P11.3 | MC7920 | | M9107 | T7.2 | B8534 | L9282 | |
| P13.1 | B8540 | | | T7.3 | L9342 | L9342 | |
| P14.1 | L9111 | L9111 | M9303 | T8.1 | L9283 | L9283 | |
| P15.1 | L9352 | L9352 | M9304 | T8.2 | B8536 | L9276 | |
| P18.1 | B8545 | L9114 | | T9.1 | L9330 | L9330 | M9307 |
| P21.1 | MC7901 | L9115 | | T12.1 | L9211 | L9211 | M9305 |
| Q3.1 | L9401 | L9401 | | T26.1 | M8101 | | M8101 |
| Q5.1 | M9625 | | M9625 | U5.1 | M9525 | | M9525 |
| Q7.1 | M9709 | | M9709 | U6.1 | L9312 | L9312 | |
| Q8.2 | MC7914 | L9106 | | U6.2 | L9311 | L9311 | |
| Q9.1 | MC7919 | | | U6.3 | L9310 | L9310 | |
| Q10.2 | M9311 | | M9311 | U7.1 | M9527 | | M9527 |
| R4.1 | M9703 | | M9703 | U7.2 | M9526 | | M9526 |
| R4.2 | M9704 | | M9704 | U9.1 | B8535 | L9275 | |
| R5.1 | L9502 | L9502 | | U11.1 | L9272 | L9272 | M9306 |
| R5.2 | M9626 | | M9626 | U26.1 | M8102 | | M8102 |
| R6.1 | M9522 | | M9522 | V7.1 | B8532 | L9274 | |
| R6.2 | M9523 | | M9523 | V8.1 | M9622 | | M9622 |
| R6.3 | L9281 | L9281 | | V8.2 | M9711 | | M9711 |

Table 5. Key to lakes within or near the Colville Delta surveyed for fish, 1979-1997. (ESG number corresponds to the grid number of the Alaska Clean Seas Emergency Response Map).

| ERG Number | Researcher Number ¹ | Lobdell Number | Moulton Number | ERG Number | Researcher Number ¹ | Lobdell Number | Moulton Number |
|------------|--------------------------------|----------------|----------------|------------|--------------------------------|----------------|----------------|
| V8.3 | M9621 | | M9621 | Y18.1 | M9620 | | M9620 |
| V14.1 | MC7903 | L9116 | M9510 | Y20.1 | L9123 | L9123 | |
| V21.1 | L9119 | L9119 | | Z6.1 | M9608 | | M9608 |
| V21.2 | M9512 | | M9512 | Z6.2 | B8530 | | |
| V29.1 | M8105 | | M8105 | Z7.1 | M9607 | | M9607 |
| W7.1 | MC7911 | L9273 | | Z8.1 | M9509 | | M9509 |
| W8.1 | M9710 | | M9710 | Z9.1 | L9334 | L9334 | |
| W9.1 | L9332 | L9332 | | Z10.1 | M9601 | | M9601 |
| W10.1 | M9501 | | M9501 | Z18.1 | M9619 | | M9619 |
| W20.1 | L9121 | L9121 | | AA10.1 | M9602 | | M9602 |
| W21.1 | L9120 | L9120 | | AA14.1 | M9605 | | M9605 |
| W21.2 | M9515 | | M9515 | BB9.1 | M9603 | | M9603 |
| W26.1 | M8103 | | M8103 | BB19.1 | M9616 | | M9616 |
| W27.1 | M8104 | | M8104 | CC8.1 | M9609 | | M9609 |
| X5.1 | B8531 | L9326 | | CC8.2 | M9610 | | M9610 |
| X9.1 | L9333 | L9333 | | CC9.1 | M9613 | | M9613 |
| X10.1 | M9502 | | M9502 | CC11.1 | MC7904 | L9133 | |
| X20.1 | L9122 | L9122 | | DD8.1 | M9611 | | M9611 |
| X21.1 | M9516 | | M9516 | DD10.1 | MC7906 | | |
| X22.1 | M9514 | | M9514 | DD11.1 | M9615 | | M9615 |
| Y6.1 | M9606 | | M9606 | EE7.4 | M9612 | | M9612 |
| Y8.1 | M9508 | | M9508 | FF3.1 | MC7907 | | |
| Y8.2 | L9335 | L9335 | | FF9.1 | MC7905 | | |
| Y9.1 | M9505 | | M9505 | MC7908 | MC7908 | | |
| Y10.1 | M9528 | | M9528 | MC7916 | MC7916 | | |
| Y11.1 | M9614 | | M9614 | MC7917 | MC7917 | | |
| Y12.1 | M9617 | | M9617 | MC7918 | MC7918 | | |
| Y14.1 | M9618 | | M9618 | | | | |

¹Researcher Number: This lake number contains several pieces of information, including the code of the sampler and the year of sampling.

Sampler Code:

MC = McElderry and Craig (1981); sampling in 1979

B = Bendock and Burr (1986); sampling in 1985

L = Lobdell; water quality sampling in 1991-1994

M = Moulton; fish sampling in 1991-1993 and 1995

First Two Numerals:

Year of Initial Sampling

(if Moulton sampled a lake previously sampled by Bendock, then the Bendock lake number is used)

Last Two Numerals:

Numbers from 1 to 99 used to identify the individual lake sampled within a given year.

Table 6. Key to lakes within or near the Colville Delta surveyed for fish, 1979-1998, sorted by Researcher Number.

| Researcher Number ¹ | ERG Number ² | Lobdell Number | Moulton Number | Researcher Number ¹ | ERG Number ² | Lobdell Number | Moulton Number |
|--------------------------------|-------------------------|----------------|----------------|--------------------------------|-------------------------|----------------|----------------|
| MC7901 | P21.1 | L9115 | | L9203 | N10.1 | L9203 | M9208 |
| MC7902 | R16.1 | L9112 | | L9208 | N8.1 | L9208 | M9210 |
| MC7903 | V14.1 | L9116 | M9510 | L9210 | P6.3 | L9210 | M9213 |
| MC7904 | CC11.1 | L9133 | | L9211 | T12.1 | L9211 | M9305 |
| MC7905 | FF9.1 | | | L9272 | U11.1 | L9272 | M9306 |
| MC7906 | DD10.1 | | | L9277 | S8.1 | L9277 | M9309 |
| MC7907 | FF3.1 | | | L9278 | S6.1 | L9278 | |
| MC7908 | MC7908 | | | L9279 | S6.2 | L9279 | |
| MC7911 | W7.1 | L9273 | | L9280 | S5.1 | L9280 | |
| MC7913 | R8.3 | | M9111 | L9281 | R6.3 | L9281 | |
| MC7914 | Q8.2 | L9106 | | L9283 | T8.1 | L9283 | |
| MC7915 | O9.2 | L9206 | | L9310 | U6.3 | L9310 | |
| MC7916 | MC7916 | | | L9311 | U6.2 | L9311 | |
| MC7917 | MC7917 | | | L9312 | U6.1 | L9312 | |
| MC7918 | MC7918 | | | L9313 | T6.1 | L9313 | |
| MC7919 | Q9.1 | | | L9314 | T6.2 | L9314 | |
| MC7920 | P11.3 | | M9107 | L9316 | T5.4 | L9316 | |
| B8530 | Z6.2 | | | L9317 | T5.2 | L9317 | |
| B8531 | X5.1 | L9326 | | L9318 | T5.3 | L9318 | |
| B8532 | V7.1 | L9274 | | L9319 | T4.5 | L9319 | |
| B8533 | S4.1 | L9315 | | L9320 | T4.4 | L9320 | |
| B8534 | T7.2 | L9282 | | L9321 | T4.3 | L9321 | |
| B8535 | U9.1 | L9275 | | L9322 | T4.2 | L9322 | |
| B8536 | T8.2 | L9276 | | L9330 | T9.1 | L9330 | M9307 |
| B8537 | R9.1 | L9350 | | L9332 | W9.1 | L9332 | |
| B8538 | O9.1 | L9105 | | L9333 | X9.1 | L9333 | |
| B8539 | O11.1 | | M9106 | L9334 | Z9.1 | L9334 | |
| B8540 | P13.1 | | | L9335 | Y8.2 | L9335 | |
| B8541 | O14.1 | | M9201 | L9342 | T7.3 | L9342 | |
| B8542 | N13.3 | L9104 | M9205 | L9349 | R9.2 | L9349 | M9310 |
| B8543 | N12.1 | L9202 | M9102 | L9352 | P15.1 | L9352 | M9304 |
| B8544 | O16.1 | | | L9401 | Q3.1 | L9401 | |
| B8545 | P18.1 | L9114 | | L9501 | S2.1 | L9501 | |
| L9101 | M13.1 | L9101 | M9204 | L9502 | R5.1 | L9502 | |
| L9102 | M14.1 | L9102 | M9301 | M8101 | T26.1 | | M8101 |
| L9103 | M14.2 | L9103 | M9203 | M8102 | U26.1 | | M8102 |
| L9107 | O8.1 | L9107 | M9312 | M8103 | W26.1 | | M8103 |
| L9108 | P7.1 | L9108 | M9212 | M8104 | W27.1 | | M8104 |
| L9109 | O10.1 | L9109 | M9209 | M8105 | V29.1 | | M8105 |
| L9110 | S9.2 | L9110 | M9308 | M8301 | R27.1 | | M8301 |
| L9111 | P14.1 | L9111 | M9303 | M9105 | P9.2 | | M9105 |
| L9119 | V21.1 | L9119 | | M9206 | N13.2 | | M9206 |
| L9120 | W21.1 | L9120 | | M9211 | N7.1 | | M9211 |
| L9121 | W20.1 | L9121 | | M9302 | O13.1 | | M9302 |
| L9122 | X20.1 | L9122 | | M9311 | Q10.2 | | M9311 |
| L9123 | Y20.1 | L9123 | | M9313 | O7.1 | | M9313 |
| L9201 | M12.1 | L9201 | M9207 | M9321 | R6.4 | | M9321 |

Table 6. Key to lakes within or near the Colville Delta surveyed for fish, 1979-1997, sorted by Researcher Number.

| Researcher Number ¹ | ERG Number ² | Lobdell Number | Moulton Number | Researcher Number ¹ | ERG Number ² | Lobdell Number | Moulton Number |
|--------------------------------|-------------------------|----------------|----------------|--------------------------------|-------------------------|----------------|----------------|
| M9501 | W10.1 | | M9501 | M9613 | CC9.1 | | M9613 |
| M9502 | X10.1 | | M9502 | M9614 | Y11.1 | | M9614 |
| M9505 | Y9.1 | | M9505 | M9615 | DD11.1 | | M9615 |
| M9508 | Y8.1 | | M9508 | M9616 | BB19.1 | | M9616 |
| M9509 | Z8.1 | | M9509 | M9617 | Y12.1 | | M9617 |
| M9512 | V21.2 | | M9512 | M9618 | Y14.1 | | M9618 |
| M9514 | X22.1 | | M9514 | M9619 | Z18.1 | | M9619 |
| M9515 | W21.2 | | M9515 | M9620 | Y18.1 | | M9620 |
| M9516 | X21.1 | | M9516 | M9621 | V8.3 | | M9621 |
| M9521 | S7.2 | | M9521 | M9622 | V8.1 | | M9622 |
| M9522 | R6.1 | | M9522 | M9623 | S7.1 | | M9623 |
| M9523 | R6.2 | | M9523 | M9625 | Q5.1 | | M9625 |
| M9524 | T5.1 | | M9524 | M9626 | R5.2 | | M9626 |
| M9525 | U5.1 | | M9525 | M9701 | S4.2 | | M9701 |
| M9526 | U7.2 | | M9526 | M9702 | S4.3 | | M9702 |
| M9527 | U7.1 | | M9527 | M9703 | R4.1 | | M9703 |
| M9528 | Y10.1 | | M9528 | M9704 | R4.2 | | M9704 |
| M9601 | Z10.1 | | M9601 | M9706 | P3.1 | | M9706 |
| M9602 | AA10.1 | | M9602 | M9707 | O5.1 | | M9707 |
| M9603 | BB9.1 | | M9603 | M9708 | O4.1 | | M9708 |
| M9605 | AA14.1 | | M9605 | M9709 | Q7.1 | | M9709 |
| M9606 | Y6.1 | | M9606 | M9710 | W8.1 | | M9710 |
| M9607 | Z7.1 | | M9607 | M9711 | V8.2 | | M9711 |
| M9608 | Z6.1 | | M9608 | M9712 | O6.2 | | M9712 |
| M9609 | CC8.1 | | M9609 | M9713 | O6.1 | | M9713 |
| M9610 | CC8.2 | | M9610 | M9714 | M7.2 | | M9714 |
| M9611 | DD8.1 | | M9611 | M9716 | T2.2 | | M9716 |
| M9612 | EE7.4 | | M9612 | | | | |

¹Researcher Number: This lake number contains several pieces of information, including the code of the sampler and the year of sampling.

Sampler Code:

MC = McElderry and Craig (1981); sampling in 1979

B = Bendock and Burr (1986); sampling in 1985

L = Lobdell; water quality sampling in 1991-1994

M = Moulton; fish sampling in 1991-1993 and 1995

First Two Numerals:

Year of Initial Sampling

(if Moulton sampled a lake previously sampled by Bendock, then the Bendock lake number is used)

Last Two Numerals:

Numbers from 1 to 99 used to identify the individual lake sampled within a given year.

²ERG number corresponds to the grid number of the Alaska Clean Seas Emergency Response Map.

Table 7. Fish species caught in 153 lakes in or near the Colville Delta during sampling conducted from 1979 to 1998 (yes = caught, -- = not caught).

| Lake Name | Habitat Class ¹ | Least Cisco | Arctic Cisco | Broad Whitefish | Humpback | Round Whitefish | Arctic Grayling | Rainbow Smelt | Burbot | Pike | Blackfish | Alaska Sucker | Longnose Sculpin | Fourhorn Sculpin | Slimy Sculpin | Ninespine Sculpin | Arctic Flounder | Ninespine Stickleback |
|-----------|----------------------------|-------------|--------------|-----------------|----------|-----------------|-----------------|---------------|--------|------|-----------|---------------|------------------|------------------|---------------|-------------------|-----------------|-----------------------|
| M7.2 | Perch(F) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| M12.1 | Tapped | Yes | Yes | Yes | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| M13.1 | Perch(I) | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| M14.1 | Perch(I) | Yes | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| M14.2 | Perch(F) | Yes | Yes | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| N7.1 | Perch(I) | Yes | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| N8.1 | Perch(I) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| N10.1 | Perch(I) | -- | Yes | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| N12.1 | Tapped | Yes | Yes | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| N13.2 | Perch(F) | Yes | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| N13.3 | Perch(F) | Yes | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| O4.1 | Perch(I) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| O5.1 | Perch(F) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| O6.1 | Perch(I) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| O6.2 | Perch(I) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| O7.1 | Perch(I) | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| O8.1 | Perch(I) | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| O9.1 | Tapped | Yes | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| O9.2 | Tapped | Yes | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| O10.1 | Perch(I) | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| O11.1 | Tapped | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| O13.1 | Perch(I) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| O14.1 | Tapped | Yes | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| O16.1 | Perch(I) | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P3.1 | Perch(I) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P6.3 | Perch(I) | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P7.1 | Perch(I) | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P9.2 | Tapped | Yes | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P11.3 | Tapped | Yes | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P13.1 | Tapped | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P14.1 | Perch(F) | Yes | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P15.1 | Perch(I) | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P18.1 | Perch(I) | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| P21.1 | Drainage | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Q3.1 | Perch(F) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

1-23

Yes

Table 7. Fish species caught in 153 lakes in or near the Colville Delta during sampling conducted from 1979 to 1998 (yes = caught, -- = not caught).

| Lake Name | Habitat Class ¹ | Least Cisco | Arctic Cisco | Broad Whitefish | Humpback Whitefish | Round Whitefish | Arctic Grayling | Rainbow Smelt | Burbot | Northern Pike | Alaska Blackfish | Longnose Sucker | Fourhorn Sculpin | Slimy Sculpin | Arctic Flounder | Ninespine Stickleback |
|-----------|----------------------------|-------------|--------------|-----------------|--------------------|-----------------|-----------------|---------------|--------|---------------|------------------|-----------------|------------------|---------------|-----------------|-----------------------|
| Q5.1 | Tapped | -- | -- | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Q7.1 | Perch(I) | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Q8.2 | Tapped | Yes | Yes | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Q9.1 | Tapped | -- | -- | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Q10.2 | Perch(F) | -- | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| R4.1 | Perch(I) | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| R4.2 | Perch(I) | -- | -- | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Yes |
| R5.1 | Perch(I) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| R5.2 | Perch(I) | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| R6.1 | Perch(F) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| R6.2 | Tapped | Yes | -- | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| R6.3 | Perch(I) | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Yes |
| R6.4 | Perch(I) | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Yes |
| R8.3 | Perch(I) | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| R9.1 | Perch(I) | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Yes |
| R9.2 | Perch(F) | -- | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| R16.1 | Drainage | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| R27.1 | Drainage | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| S2.1 | Tundra | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Yes |
| S4.1 | Perch(I) | Yes | -- | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| S4.2 | Perch(I) | Yes | -- | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| S4.3 | Perch(I) | Yes | -- | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Yes |
| S5.1 | Perch(I) | Yes | -- | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Yes |
| S6.1 | Tapped | Yes | -- | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Yes |
| S6.2 | Perch(I) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| S7.1 | Perch(F) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| S7.2 | Tapped | Yes | -- | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Yes |
| S8.1 | Perch(I) | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| S9.2 | Perch(F) | Yes | -- | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Yes |
| T2.2 | Perch(I) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Yes |
| T3.1 | Perch(I) | Yes | -- | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| T4.2 | Perch(I) | Yes | -- | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Yes |
| T4.3 | Perch(I) | Yes | -- | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Yes |
| T4.4 | Perch(I) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Yes |
| T4.5 | Perch(I) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Yes |

Table 7. Fish species caught in 153 lakes in or near the Colville Delta during sampling conducted from 1979 to 1998 (yes = caught, -- = not caught).

| Lake Name | Habitat Class ¹ | Least Cisco | Arctic Cisco | Broad Whitefish | Humpback | Round Whitefish | Arctic Grayling | Rainbow Smelt | Burbot | Pike | Blackfish | Sucker | Longnose Sculpin | Fourhorn Sculpin | Slimy Sculpin | Arctic Flounder | Ninespine Stickleback |
|-----------|----------------------------|-------------|--------------|-----------------|----------|-----------------|-----------------|---------------|--------|------|-----------|--------|------------------|------------------|---------------|-----------------|-----------------------|
| T5.1 | Perch(F) | Yes | Yes | -- | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Yes |
| T5.2 | Perch(I) | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Yes |
| T5.3 | Perch(I) | Yes | -- | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Yes |
| T5.4 | Perch(F) | Yes | -- | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Yes |
| T6.1 | Perch(I) | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Yes |
| T6.2 | Perch(F) | -- | -- | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Yes |
| T7.2 | Perch(F) | Yes | -- | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Yes |
| T7.3 | Perch(I) | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Yes |
| T8.1 | Perch(F) | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| T8.2 | Perch(I) | Yes | -- | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| T9.1 | Perch(I) | Yes | -- | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| T12.1 | Perch(I) | Yes | -- | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| T26.1 | Drainage | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| U5.1 | Tapped | Yes | -- | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Yes |
| U6.1 | Perch(I) | Yes | -- | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Yes |
| U6.2 | Perch(I) | Yes | -- | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Yes |
| U6.3 | Perch(I) | Yes | -- | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Yes |
| U7.1 | Tapped | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| U7.2 | Tapped | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| U9.1 | Perch(I) | Yes | -- | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| U11.1 | Perch(I) | Yes | -- | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| U26.1 | Tundra | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V7.1 | Perch(F) | Yes | -- | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V8.1 | Perch(F) | Yes | -- | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V8.2 | Perch(I) | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V8.3 | Drainage | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V14.1 | Drainage | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V21.1 | Drainage | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V21.2 | Tundra | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| V29.1 | Tundra | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| W5.1 | Perch(I) | Yes | -- | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Yes |
| W5.2 | Perch(F) | -- | -- | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| W7.1 | Perch(F) | Yes | -- | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| W8.1 | Perch(I) | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Yes |
| W9.1 | Perch(I) | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Yes |

Table 7. Fish species caught in 153 lakes in or near the Colville Delta during sampling conducted from 1979 to 1998 (yes = caught, -- = not caught).

| Lake Name | Habitat Class ¹ | Least Cisco | Arctic Cisco | Broad Cisco | Whitefish Cisco | Humpback Whitefish | Round Whitefish | Arctic Grayling | Rainbow Smelt | Burbot Pike | Northern Blackfish | Alaska Sucker | Slimy Sculpin | Fourhorn Sculpin | Sculpin Flounder | Arctic Ninespine Stickleback |
|-----------|----------------------------|-------------|--------------|-------------|-----------------|--------------------|-----------------|-----------------|---------------|-------------|--------------------|---------------|---------------|------------------|------------------|------------------------------|
| W10.1 | Drainage | Yes | -- | -- | -- | -- | -- | Yes | -- | -- | -- | -- | -- | -- | -- | -- |
| W20.1 | Tundra | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Yes |
| W21.1 | Tundra | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Yes |
| W21.2 | Tundra | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| W26.1 | Tundra | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| W27.1 | Tundra | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| X5.1 | Drainage | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| X6.2 | Perch(I) | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| X9.1 | Perch(I) | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Yes |
| X10.1 | Drainage | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Yes |
| X20.1 | Tundra | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Yes |
| X21.1 | Tundra | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| X22.1 | Tundra | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Y6.1 | Perch(I) | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Y6.3 | Perch(I) | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Y8.2 | Perch(I) | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Y9.1 | Perch(I) | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Yes |
| Y10.1 | Tundra | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Y11.1 | Tundra | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Y12.1 | Tundra | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Y14.1 | Tundra | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Y18.1 | Tundra | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Y20.1 | Drainage | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Z6.1 | Perch(F) | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Yes |
| Z6.2 | Perch(F) | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Z7.1 | Perch(I) | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Yes |
| Z8.1 | Perch(I) | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Yes |
| Z9.1 | Drainage | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Z10.1 | Tundra | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Z18.1 | Tundra | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AA10.1 | Tundra | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AA14.1 | Tundra | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AA18.1 | Tundra | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| BB9.1 | Drainage | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Yes |
| CC8.1 | Perch(I) | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Yes |

Table 7. Fish species caught in 153 lakes in or near the Colville Delta during sampling conducted from 1979 to 1998 (yes = caught, -- = not caught).

| Lake Name | Habitat Class ¹ | Least Cisco | Arctic Cisco | Broad Whitefish | Humpback Whitefish | Round Whitefish | Arctic Grayling | Rainbow Smelt | Burbot | Northern Pike | Alaska Blackfish | Longnose Sucker | Fourhorn Sculpin | Slimy Sculpin | Arctic Flounder | Ninespine Stickleback |
|--------------------|----------------------------|-------------|--------------|-----------------|--------------------|-----------------|-----------------|---------------|--------|---------------|------------------|-----------------|------------------|---------------|-----------------|-----------------------|
| CC8.2 Perch(F) | Yes | -- | Yes | -- | Yes | -- | -- | -- | -- | Yes | -- | -- | -- | -- | -- | -- |
| CC9.1 Perch(I) | -- | -- | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| CC11.1 Drainage | Yes | -- | Yes | -- | Yes | -- | -- | -- | -- | Yes | -- | -- | -- | -- | -- | -- |
| DD8.1 Perch(F) | Yes | -- | Yes | -- | -- | -- | -- | -- | -- | Yes | -- | -- | -- | -- | -- | -- |
| DD10.1 Drainage | -- | -- | -- | -- | -- | -- | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| DD11.1 Tundra | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| EE7.4 Perch(I) | Yes | -- | Yes | -- | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| FF3.1 Drainage | Yes | -- | Yes | -- | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| FF9.1 Drainage | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MCT908 Tundra | -- | -- | -- | -- | -- | -- | -- | -- | -- | Yes | -- | -- | -- | -- | -- | -- |
| MCT916 Drainage | Yes | -- | Yes | -- | -- | -- | Yes | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MCT917 Drainage | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MCT918 Tapped | Yes | -- | Yes | -- | Yes | -- | -- | -- | -- | -- | -- | Yes | -- | -- | -- | -- |
| No. of Occurrences | 90 | 18 | 65 | 15 | 21 | 15 | 7 | 6 | 3 | 26 | 6 | 10 | 5 | 2 | 45 | |

¹ Perched(F) = Perched lake with an obvious high water channel, likely subject to annual flooding.

Perched(I) = Perched lake with no obvious high water channel, likely subject to flooding on an infrequent basis.

Tapped = Tapped lake, a lake with an active connection to the river channel during summer. The channel is normally a short, low velocity channel formed when the lake was tapped and drained.

Drainage = Drainage Lake, a lake that is part of a defined drainage system, i.e. there is an active connection to a creek.

Tundra = Tundra Lake, a thaw lake not within or connected to the Colville Delta.

In addition, the following species were encountered only in the indicated lake:

| Species | Lake |
|------------------------|------|
| Dolly Varden char | O9.2 |
| Saffron cod | Q8.2 |
| Threespine stickleback | S7.2 |

Table 8. Estimated lake volumes, permissible water removal volumes and presence of fish in lakes within or near the Colville River.

| ERG Number ¹ | Researcher Number ² | Estimated Maximum | | | Volume >7 ft (million gals.) | 15% of Volume >7 ft (million gals.) | Fish Presence Documented | Fish Habitat Concern |
|----------------------------|-----------------------------------|-------------------|-----------------|---------------------------|------------------------------------|---|--------------------------------|----------------------------|
| | | Area (acres) | Depth (feet) | Volume (million gals.) | | | | |
| M6.1 | L9209 | 20.1 | 9 | 19.4 | 4.3 | 0.6 | Not Sampled | |
| M7.2 | M9714 | 17.4 | 14.1 | 26.3 | 13.3 | 2.0 | No | NFC ⁴ |
| M9.1 | L9204 | 38.0 | 6.5 | 26.6 | 0.0 | 0.0 | Not Sampled | |
| M12.1 | L9201 | 32.6 | 17 | 59.5 | 35.0 | 5.3 | Yes | |
| M13.1 | L9101 | 33.6 | 21 | 75.8 | 50.5 | 7.6 | Yes | |
| M14.1 | L9102 | 29.7 | 9 | 28.7 | 6.4 | 1.0 | Yes | |
| M14.2 | L9103 | 60.8 | 12 | 78.5 | 32.7 | 4.9 | Yes | |
| N7.1 | M9211 | 42.9 | 19.2 | 88.6 | 56.3 | 8.4 | Yes | |
| N8.1 | L9208 | 14.9 | 11 | 17.6 | 6.4 | 1.0 | No | NFC |
| N8.2 | L9207 | 5.2 | 8 | 4.4 | 0.6 | 0.1 | Not Sampled | |
| N9.1 | L9205 | 39.2 | 12 | 50.5 | 21.1 | 3.2 | Not Sampled | |
| N10.1 | L9203 | 120.5 | 18 | 233.2 | 142.5 | 21.4 | Yes | |
| N12.1 | B8543 | 159.3 | 13 | 222.6 | 102.7 | 15.4 | Yes | |
| N13.2 | M9206 | 25.7 | 15 | 41.4 | 22.1 | 3.3 | Yes | |
| N13.3 | B8542 | 82.1 | 28 | 247.1 | 185.3 | 27.8 | Yes | |
| O4.1 | M9708 | 42.2 | 12.0 | 54.4 | 22.7 | 3.4 | No | NFC |
| O5.1 | M9707 | 16.6 | 8.4 | 15.0 | 2.5 | 0.4 | No | NFC |
| O6.1 | M9713 | 14.5 | 11.0 | 17.1 | 6.2 | 0.9 | No | NFC |
| O6.2 | M9712 | 52.5 | 8.1 | 45.7 | 6.2 | 0.9 | No | NFC |
| O7.1 | M9313 | 128.3 | 19 | 262.0 | 165.5 | 24.8 | Yes | |
| O8.1 | L9107 | 208.2 | 28.1 | 629.0 | 472.3 | 70.8 | Yes | |
| O9.1 | B8538 | 344.8 | 8 | 296.6 | 37.1 | 5.6 | Yes | |
| O9.2 | MC7915 | 320.1 | 6.5 | 223.7 | 0.0 | 0.0 | Yes | |
| O10.1 | L9109 | 113.8 | 18 | 220.2 | 134.6 | 20.2 | Yes | |
| O11.1 | B8539 | 193.7 | 13 | 270.7 | 125.0 | 18.7 | Yes | |
| O13.1 | M9302 | 59.1 | 10 | 63.6 | 19.1 | 2.9 | Yes | |
| O14.1 | B8541 | 141.3 | 10 | 151.9 | 45.6 | 6.8 | Yes | |
| O16.1 | B8544 | 66.4 | 16 | 114.3 | 64.3 | 9.6 | Yes | |
| P3.1 | M9706 | 15.9 | 6.3 | 10.8 | 0.0 | 0.0 | No | NFC |
| P6.3 | L9210 | 117.1 | 14.5 | 182.5 | 94.4 | 14.2 | Yes | |
| P7.1 | L9108 | 112.2 | 17.1 | 206.3 | 121.8 | 18.3 | Yes | |
| P9.2 | M9105 | 54.5 | 8 | 46.9 | 5.9 | 0.9 | Yes | |
| P11.3 | MC7920 | 657.5 | 8.0 | 565.5 | 70.7 | 10.6 | Yes | |
| P13.1 | B8540 | 232.2 | 10 | 249.6 | 74.9 | 11.2 | Yes | |
| P14.1 | L9111 | 32.7 | 14 | 49.2 | 24.6 | 3.7 | Yes | |
| P15.1 | L9352 | 9.9 | 14 | 14.9 | 7.5 | 1.1 | Yes | |
| P18.1 | B8545 | 207.5 | 7.5 | 167.3 | 11.2 | 1.7 | Yes | |
| P21.1 | MC7901 | 428.9 | 5.0 | 230.6 | 0.0 | 0.0 | No | |
| Q3.1 | L9401 | 86.2 | 16.3 | 151.1 | 86.2 | 12.9 | NSSB ³ | |
| Q5.1 | M9625 | 72.8 | 3.6 | 28.2 | 0.0 | 0.0 | Yes | |
| Q7.1 | M9709 | 64.6 | 18.9 | 131.2 | 82.6 | 12.4 | Yes | |
| Q8.2 | MC7914 | 685.0 | 6.5 | 478.7 | 0.0 | 0.0 | Yes | |
| Q10.2 | M9311 | 83.2 | 9 | 80.5 | 17.9 | 2.7 | Yes | |
| R2.1 | L9301 | 94.9 | 11 | 112.2 | 40.8 | 6.1 | Not Sampled | |
| R3.1 | L9303 | 19.8 | 13 | 27.7 | 12.8 | 1.9 | Not Sampled | |
| R4.1 | M9703 | 17.1 | 32.8 | 60.2 | 47.4 | 7.1 | Yes | |
| R4.2 | M9704 | 11.0 | 11.6 | 13.8 | 5.5 | 0.8 | Yes | |
| R5.1 | L9502 | 10.5 | 12 | 13.5 | 5.6 | 0.8 | No | |
| R5.2 | M9626 | 20.1 | 20.3 | 43.8 | 28.7 | 4.3 | Yes | |
| R6.1 | M9522 | 19.9 | 9 | 19.3 | 4.3 | 0.6 | No | NFC |
| R6.3 | L9281 | 43.8 | 13.5 | 63.5 | 30.6 | 4.6 | Yes | |
| R6.4 | M9321 | 20.8 | 11.7 | 26.2 | 10.5 | 1.6 | Yes | |

Table 8. Estimated lake volumes, permittable water removal volumes and presence of fish in lakes within or near the Colville River.

| ERG Number ¹ | Researcher Number ² | Estimated Area (acres) | Maximum Depth (feet) | Volume (million gals.) | Volume >7 ft (million gals.) | 15% of Volume >7 ft (million gals.) | Fish Presence Documented | Fish Habitat Concern |
|-------------------------|--------------------------------|------------------------|----------------------|------------------------|------------------------------|-------------------------------------|--------------------------|----------------------|
| R8.3 | MC7913 | 534.8 | 10.0 | 574.9 | 172.5 | 25.9 | Yes | |
| R9.1 | B8537 | 255.4 | 20.6 | 565.7 | 373.4 | 56.0 | Yes | |
| R9.2 | L9349 | 45.6 | 9 | 44.2 | 9.8 | 1.5 | Yes | |
| R16.1 | MC7902 | 790.7 | 3.0 | 255.0 | 0.0 | 0.0 | Yes | |
| R27.1 | M8301 | 297.6 | 4.5 | 144.0 | 0.0 | 0.0 | No | NFC |
| S2.1 | L9501 | 480.4 | 6 | 309.9 | 0.0 | 0.0 | No | NFC |
| S3.1 | L9302 | 33.6 | 25 | 90.3 | 65.0 | 9.8 | Not Sampled | NFC |
| S4.1 | B8533 | 114.5 | 24.1 | 296.7 | 210.5 | 31.6 | Yes | |
| S4.2 | M9701 | 11.9 | 15.6 | 20.0 | 11.0 | 1.7 | Yes | |
| S4.3 | M9702 | 11.6 | 18.1 | 22.6 | 13.9 | 2.1 | Yes | |
| S5.1 | L9280 | 31.4 | 14.8 | 50.0 | 26.4 | 4.0 | Yes | |
| S6.1 | L9278 | 329.9 | 5 | 177.3 | 0.0 | 0.0 | Yes | |
| S6.2 | L9279 | 19.1 | 12.7 | 26.1 | 11.7 | 1.8 | NSSB | |
| S7.1 | M9623 | 14.9 | 11.8 | 18.9 | 7.7 | 1.2 | No | NFC |
| S7.2 | M9521 | 221.0 | 2.2 | 52.3 | 0.0 | 0.0 | Yes | |
| S8.1 | L9277 | 30.4 | 10 | 32.7 | 9.8 | 1.5 | Yes | |
| S9.2 | L9110 | 208.8 | 14 | 314.2 | 157.1 | 23.6 | Yes | |
| S15.1 | L9113 | 48.2 | 2 | 10.4 | 0.0 | 0.0 | Not Sampled | |
| T2.1 | L9305 | 16.1 | 10 | 17.3 | 5.2 | 0.8 | Not Sampled | |
| T2.2 | M9716 | 13.3 | 17.3 | 24.7 | 14.7 | 2.2 | NSSB | |
| T3.1 | L9304 | 54.9 | 15.3 | 90.3 | 49.0 | 7.3 | Yes | |
| T4.2 | L9322 | 19.1 | 11.5 | 23.6 | 9.2 | 1.4 | Yes | |
| T4.3 | L9321 | 37.0 | 12.3 | 49.0 | 21.1 | 3.2 | Yes | |
| T4.4 | L9320 | 5.7 | 15 | 9.3 | 4.9 | 0.7 | Yes | |
| T4.5 | L9319 | 3.7 | 13.6 | 5.5 | 2.6 | 0.4 | Yes | |
| T5.1 | M9524 | 129.7 | 11.4 | 159.0 | 61.4 | 9.2 | Yes | |
| T5.2 | L9317 | 6.9 | 14.7 | 10.9 | 5.7 | 0.9 | Yes | |
| T5.3 | L9318 | 10.2 | 10.7 | 11.7 | 4.1 | 0.6 | Yes | |
| T5.4 | L9316 | 22.1 | 12.6 | 29.9 | 13.3 | 2.0 | Yes | |
| T6.1 | L9313 | 68.9 | 12.3 | 184.6 | 44.9 | 6.7 | Yes | |
| T6.2 | L9314 | 5.7 | 14 | 8.6 | 4.3 | 0.6 | NSSB | |
| T7.2 | B8534 | 480.4 | 28 | 1,673.4 | 599.7 | 90.0 | Yes | |
| T7.3 | L9342 | 25.3 | 11.8 | 32.0 | 13.0 | 2.0 | Yes | |
| T8.1 | L9283 | 74.3 | 9.5 | 75.9 | 20.0 | 3.0 | Yes | |
| T8.2 | B8536 | 289.1 | 14 | 435.2 | 217.6 | 32.6 | Yes | |
| T9.1 | L9330 | 124.4 | 9.5 | 127.1 | 33.4 | 5.0 | Yes | |
| T12.1 | L9211 | 138.7 | 16 | 238.7 | 134.3 | 20.1 | Yes | |
| T19.1 | L9353 | 23.8 | 6.5 | 16.6 | 0.0 | 0.0 | Not Sampled | |
| T26.1 | M8101 | 226.4 | 7.5 | 182.6 | 12.2 | 1.8 | No | NFC |
| U5.1 | M9525 | 103.6 | 4.2 | 46.8 | 0.0 | 0.0 | Yes | |
| U6.1 | L9312 | 99.9 | 14.1 | 151.4 | 76.2 | 11.4 | Yes | |
| U6.2 | L9311 | 21.5 | 12.5 | 28.9 | 12.7 | 1.9 | Yes | |
| U6.3 | L9310 | 60.5 | 23.5 | 153.0 | 107.4 | 16.1 | Yes | |
| U9.1 | B8535 | 375.9 | 18 | 727.5 | 444.6 | 66.7 | Yes | |
| U11.1 | L9272 | 304.9 | 17.5 | 573.7 | 344.2 | 51.6 | Yes | |
| U19.1 | L9118 | 52.6 | 7.5 | 42.4 | 2.8 | 0.4 | Not Sampled | |
| V3.1 | L9341 | 38.0 | 10.5 | 42.9 | 14.3 | 2.1 | Not Sampled | |
| V3.2 | L9309 | 6.8 | 10 | 7.3 | 2.2 | 0.3 | Not Sampled | |
| V7.1 | B8532 | 390.7 | 8.2 | 344.4 | 50.4 | 7.6 | Yes | |
| V8.1 | M9622 | 221.4 | 20.4 | 485.6 | 319.0 | 47.8 | Yes | |
| V8.2 | M9711 | 182.5 | 13.2 | 259.0 | 121.7 | 18.2 | Yes | |
| V8.3 | M9621 | 50.9 | 10.0 | 54.8 | 16.4 | 2.5 | Yes | |
| V10.1 | L9331 | 16.1 | 13 | 22.5 | 10.4 | 1.6 | Not Sampled | |

Table 8. Estimated lake volumes, permissible water removal volumes and presence of fish in lakes within or near the Colville River.

| ERG Number ¹ | Researcher Number ² | Estimated Maximum | | Volume (million gals.) | Volume >7 ft (million gals.) | 15% of Volume >7 ft (million gals.) | Fish Presence | Fish Habitat |
|----------------------------|-----------------------------------|-------------------|-----------------|---------------------------|------------------------------------|---|---------------|--------------|
| | | Area (acres) | Depth (feet) | | | | | |
| V14.1 | MC7903 | 1197.3 | 9.3 | 1,197.2 | 296.1 | 44.4 | Yes | |
| V18.3 | L9117 | 91.5 | 2 | 19.7 | 0.0 | 0.0 | Not Sampled | |
| V21.1 | L9119 | 34.5 | 4.3 | 15.9 | 0.0 | 0.0 | Yes | |
| V21.2 | M9512 | 90.0 | 3.7 | 35.8 | 0.0 | 0.0 | NSSB | NFC |
| W1.1 | L9308 | 817.0 | 3.5 | 307.4 | 0.0 | 0.0 | Not Sampled | |
| W2.1 | L9306 | 64.0 | 7 | 48.2 | 0.0 | 0.0 | Not Sampled | |
| W5.1 | L9323 | 84.1 | 11 | 99.4 | 36.2 | 5.4 | Yes | |
| W5.2 | L9324 | 126.1 | 11.2 | 151.9 | 57.0 | 8.5 | Yes | |
| W7.1 | MC7911 | 479.2 | 19.3 | 994.4 | 633.7 | 95.1 | Yes | |
| W8.1 | M9710 | 38.3 | 30.4 | 125.2 | 96.4 | 14.5 | Yes | |
| W9.1 | L9332 | 32.4 | 15.6 | 54.4 | 30.0 | 4.5 | Yes | |
| W10.1 | M9501 | 65.9 | 8.3 | 58.8 | 9.2 | 1.4 | Yes | |
| W20.1 | L9121 | 138.8 | 6.5 | 97.0 | 0.0 | 0.0 | NSSB | NFC |
| W21.1 | L9120 | 99.2 | 5.3 | 56.5 | 0.0 | 0.0 | NSSB | NFC |
| W21.2 | M9515 | 37.6 | 6.7 | 27.1 | 0.0 | 0.0 | No | NFC |
| W26.1 | M8103 | 520.0 | 5 | 279.5 | 0.0 | 0.0 | No | NFC |
| W27.1 | M8104 | 208.2 | ? | ? | ? | ? | No | NFC |
| X2.1 | L9307 | 650.0 | 5 | 349.4 | 0.0 | 0.0 | Not Sampled | |
| X5.1 | B8531 | 295.6 | 8 | 254.2 | 31.8 | 4.8 | Yes | |
| X5.2 | L9325 | 30.0 | 12 | 38.7 | 16.1 | 2.4 | Not Sampled | |
| X6.2 | L9328 | 41.6 | 13.2 | 59.1 | 27.7 | 4.2 | Yes | |
| X6.3 | L9329 | 4.7 | 10 | 5.1 | 1.5 | 0.2 | Not Sampled | |
| X9.1 | L9333 | 12.5 | 13.1 | 17.6 | 8.2 | 1.2 | Yes | |
| X10.1 | M9502 | 32.6 | 10.4 | 36.4 | 11.9 | 1.8 | Yes | |
| X20.1 | L9122 | 184.6 | 5.1 | 101.2 | 0.0 | 0.0 | NSSB | NFC |
| X21.1 | M9516 | 31.4 | 5.3 | 17.9 | 0.0 | 0.0 | No | NFC |
| X22.1 | M9514 | 175.4 | 2.4 | 45.3 | 0.0 | 0.0 | NSSB | NFC |
| Y6.1 | M9606 | 78.1 | 10.1 | 84.8 | 26.0 | 3.9 | Yes | |
| Y6.3 | L9327 | 202.3 | 13.0 | 282.8 | 130.5 | 19.6 | Yes | |
| Y8.1 | M9508 | 19.8 | 6.3 | 13.4 | 0.0 | 0.0 | Not Sampled | |
| Y8.2 | L9335 | 167.7 | 9.6 | 173.1 | 46.9 | 7.0 | Yes | |
| Y9.1 | M9505 | 67.0 | 8.3 | 59.8 | 9.4 | 1.4 | Yes | |
| Y10.1 | M9528 | 206.8 | 4 | 88.9 | 0.0 | 0.0 | NSSB | NFC |
| Y11.1 | M9614 | 162.6 | 6.4 | 111.9 | 0.0 | 0.0 | No | NFC |
| Y12.1 | M9617 | 382.8 | 6.9 | 284.0 | 0.0 | 0.0 | No | NFC |
| Y14.1 | M9618 | 21.9 | 9.7 | 22.8 | 6.4 | 1.0 | No | NFC |
| Y17.1 | L9129 | 80.5 | 4.5 | 38.9 | 0.0 | 0.0 | Not Sampled | |
| Y18.1 | M9620 | 43.9 | 7.2 | 34.0 | 0.9 | 0.1 | No | NFC |
| Y20.1 | L9123 | 414.0 | 7.2 | 320.5 | 8.9 | 1.3 | No | NFC |
| Y23.1 | L9126 | 159.3 | 5.5 | 94.2 | 0.0 | 0.0 | Not Sampled | |
| Z6.1 | M9608 | 184.7 | 11.5 | 228.3 | 89.3 | 13.4 | Yes | |
| Z6.2 | B8530 | 548.7 | 15.4 | 908.5 | 495.5 | 74.3 | Yes | |
| Z7.1 | M9607 | 97.4 | 10.9 | 114.2 | 40.9 | 6.1 | Yes | |
| Z8.1 | M9509 | 13.5 | 12.3 | 17.8 | 7.7 | 1.2 | Yes | |
| Z9.1 | L9334 | 514.8 | 22.0 | 1,217.7 | 830.2 | 124.5 | Yes | |
| Z10.1 | M9601 | 360.9 | 6.2 | 240.5 | 0.0 | 0.0 | No | NFC |
| Z18.1 | M9619 | 88.1 | 6.6 | 62.6 | 0.0 | 0.0 | No | NFC |
| Z23.1 | L9125 | 152.7 | 5 | 82.1 | 0.0 | 0.0 | Not Sampled | |
| AA10.1 | M9602 | 604.5 | 6.4 | 415.9 | 0.0 | 0.0 | No | NFC |
| AA14.1 | M9605 | 307.8 | 7.2 | 238.3 | 6.6 | 1.0 | No | NFC |
| AA18.1 | L9128 | 347.2 | 7 | 261.3 | 0.0 | 0.0 | No | NFC |
| AA21.1 | L9127 | 11.8 | 8 | 10.1 | 1.3 | 0.2 | Not Sampled | |
| BB9.1 | M9603 | 419.8 | 17.2 | 776.4 | 460.4 | 69.1 | Yes | |

Table 8. Estimated lake volumes, permittable water removal volumes and presence of fish in lakes within or near the Colville River.

| ERG Number ¹ | Researcher Number ² | Estimated Maximum | | | Volume >7 ft (million gals.) | 15% of Volume >7 ft (million gals.) | Fish Presence Documented | Fish Habitat Concern |
|-------------------------|--------------------------------|-------------------|--------------|------------------------|------------------------------|-------------------------------------|--------------------------|----------------------|
| | | Area (acres) | Depth (feet) | Volume (million gals.) | | | | |
| BB12.1 | L9134 | 10.4 | 8 | 8.9 | 1.1 | 0.2 | Not Sampled | |
| BB14.1 | L9132 | 68.0 | 3 | 21.9 | 0.0 | 0.0 | Not Sampled | |
| BB19.1 | M9616 | 176.7 | 2.0 | 38.0 | 0.0 | 0.0 | Not Sampled | NFC |
| CC8.1 | M9609 | 74.2 | 16.5 | 131.6 | 75.8 | 11.4 | Yes | |
| CC8.2 | M9610 | 37.7 | 11.1 | 45.0 | 16.6 | 2.5 | Yes | |
| CC9.1 | M9613 | 32.3 | 12.6 | 43.7 | 19.4 | 2.9 | Yes | |
| CC11.1 | MC7904 | 614.8 | 5.9 | 390.0 | 0.0 | 0.0 | Yes | |
| CC12.1 | L9136 | 20.5 | 5 | 11.0 | 0.0 | 0.0 | Not Sampled | |
| CC12.2 | L9135 | 44.4 | 5 | 23.9 | 0.0 | 0.0 | Not Sampled | |
| CC20.1 | L9130 | 100.4 | 2.5 | 27.0 | 0.0 | 0.0 | Not Sampled | |
| DD8.1 | M9611 | 336.7 | 11.6 | 420.0 | 166.5 | 25.0 | Yes | |
| DD10.1 | MC7906 | 196.9 | 7.5 | 158.8 | 10.6 | 1.6 | Yes | |
| DD11.1 | M9615 | 325.0 | 6.6 | 230.6 | 0.0 | 0.0 | No | NFC |
| DD18.1 | L9602 | 20.8 | 4.5 | 10.1 | 0.0 | 0.0 | Not Sampled | |
| EE7.4 | M9612 | 146.8 | 24.2 | 381.9 | 271.4 | 40.7 | Yes | |
| EE13.1 | L9131 | 72.8 | 6 | 47.0 | 0.0 | 0.0 | Not Sampled | |
| FF3.1 | MC7907 | 1308.3 | | | | | Yes | |
| FF9.1 | MC7905 | 526.1 | 7.6 | 429.9 | 33.9 | 5.1 | No | |
| | L9124 | 44.6 | 2.5 | 12.0 | 0.0 | 0.0 | Not Sampled | |
| | L9601 | 54.9 | 2.5 | 14.8 | 0.0 | 0.0 | Not Sampled | |
| | MC7908 | | | | | | Yes | |
| | MC7916 | 417.8 | | | | | Yes | |
| | MC7917 | 290.4 | | | | | No | |
| | MC7918 | 740.7 | | | | | Yes | |

¹ERG number corresponds to the grid number of the Alaska Clean Seas Emergency Response Map.

²Researcher Number: This lake number contains several pieces of information, including the code of the sampler and the year of sampling.

Sampler Code:

MC = McElderry and Craig (1981); sampling in 1979
 B = Bendock and Burr (1986); sampling in 1985
 L = Lobdell; water quality sampling in 1991-1994
 M = Moulton; fish sampling in 1991-1993 and 1995

First Two Numerals:

Year of Initial Sampling
 (if Moulton sampled a lake previously sampled by Bendock, then the Bendock lake number is used)

Last Two Numerals:

Numbers from 1 to 99 used to identify the individual lake sampled within a given year.

³ NSSB = ninespine stickleback only fish species captured

⁴ NFC = No Fish Concern

Table 9. Summary of water quality parameters in lakes within or near the Colville River.

| ERG ¹ Name | Researcher Name | Year of Test | | | | | Total Hardness | Total Dissolved Solids | Source |
|--------------------------|--------------------|--------------------|--------------------|------------------|---------------------|-------------------|--------------------------------|------------------------------|---------------------|
| | | | Chloride (mg/l) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | [CaCO ₃] (mg/l) | | |
| M7.2 | M9714 | None | | | | | | | |
| M12.1 | L9201 | 1992 | 300 | 150 | 27 | 30 | 186 | 710 | J. Lobdell |
| M13.1 | L9101 | 1991 | 730 | 430 | 52 | 37 | 306 | 1,510 | J. Lobdell |
| M14.1 | L9102 | 1991 | 33 | 21 | 6 | 6 | 40 | 130 | J. Lobdell |
| M14.2 | L9103 | 1991 | 970 | 540 | 71 | 51 | 420 | 1,910 | J. Lobdell |
| | | 1998 | 1,410 | 724 | 95 | 63 | 548 | 2,580 | this study |
| N7.1 | M9211 | 1998 | 2,210 | 985 | 153 | 79 | 827 | 3,740 | this study |
| N8.1 | L9208 | 1993 | 4,800 | 1,990 | 260 | 161 | 1,500 | 9,200 | J. Lobdell |
| N10.1 | L9203 | 1992 | 120 | 57 | 10 | 9 | 63 | 250 | J. Lobdell |
| | | 1998 | 265 | 134 | 20 | 17 | 125 | 520 | this study |
| N12.1 | B8543 | 1985 | | | | | 188 | | Bendock & Burr 1986 |
| | | 1993 | 2,700 | 1,400 | 160 | 75 | 846 | 5,700 | J. Lobdell |
| N13.2 | M9206 | None | | | | | 51 | | |
| N13.3 | B8542 | 1985 | | | | | | | Bendock & Burr 1986 |
| | | 1991 | 60 | 330 | 8 | 13 | 64 | 180 | J. Lobdell |
| | | 1998 | 91 | 46 | 11 | 15 | 82 | 220 | this study |
| O4.1 | M9708 | 1997 | 248 | 419 | 30 | 27 | 191 | 643 | J. Lobdell |
| O5.1 | M9707 | 1997 | 2,390 | 3,230 | 258 | 166 | 1,480 | 4,254 | J. Lobdell |
| O6.1 | M9713 | 1998 | 1,090 | 556 | 65 | 49 | 388 | 1,920 | this study |
| O6.2 | M9712 | None | | | | | | | |
| O7.1 | M9313 | 1998 | 259 | 108 | 22 | 29 | 162 | 484 | this study |
| O8.1 | L9107 | 1991 | 420 | 250 | 30 | 20 | 174 | 840 | J. Lobdell |
| | | 1998 | 572 | 313 | 38 | 24 | 215 | 1,080 | this study |
| O9.1 | B8538 | None | | | | | 137 | | |
| O9.2 | MC7915 | 1992 | 1,000 | 570 | 76 | 47 | 430 | 2,400 | J. Lobdell |
| O10.1 | L9109 | 1991 | 20 | 12 | 3 | 309 | 21 | 116 | J. Lobdell |
| O11.1 | B8539 | 1985 | | | | | 137 | | Bendock & Burr 1986 |
| O13.1 | M9302 | None | | | | | | | |
| O14.1 | B8541 | 1985 | | | | | 137 | | Bendock & Burr 1986 |
| O16.1 | B8544 | 1985 | | | | | 103 | | Bendock & Burr 1986 |
| P3.1 | M9706 | 1997 | 112 | 85 | 9 | 28 | 108 | 256 | J. Lobdell |
| P6.3 | L9210 | 1992 | 64 | 20 | 10 | 19 | 92 | 190 | J. Lobdell |
| | | 1998 | 75 | 26 | 11 | 21 | 100 | 189 | this study |
| P7.1 | L9108 | 1991 | 360 | 200 | 26 | 23 | 164 | 700 | J. Lobdell |
| | | 1998 | 427 | 218 | 31 | 29 | 201 | 800 | this study |
| P9.2 | M9105 | None | | | | | 274 | | |
| P11.3 | MC7920 | None | | | | | | | |
| P13.1 | B8540 | 1985 | | | | | | | Bendock & Burr 1986 |
| P14.1 | L9111 | 1991 | 86 | 13 | 10 | 15 | 79 | 272 | J. Lobdell |
| P15.1 | L9352 | 1993 | 15 | 8 | 3 | 7 | 30 | 55 | J. Lobdell |
| P18.1 | B8545 | 1985 | | | | | 68 | | Bendock & Burr 1986 |
| P21.1 | MC7901 | None | | | | | | | |
| Q3.1 | L9401 | 1994 | 462 | 381 | 27 | 23 | 167 | 621 | J. Lobdell |
| Q5.1 | M9625 | None | | | | | | | |
| Q7.1 | M9709 | None | | | | | | | |
| Q8.2 | MC7914 | None | | | | | | | |

Table 9. Summary of water quality parameters in lakes within or near the Colville River.

| ERG ¹ Name | Researcher Name | Year of Test | | | | | Total Hardness | Total Dissolved Solids | Source |
|--------------------------|--------------------|--------------------|--------------------|------------------|---------------------|-------------------|--------------------------------|------------------------------|---------------------|
| | | | Chloride (mg/l) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | [CaCO ₃] (mg/l) | | |
| Q9.1 | MC7919 | None | | | | | | | |
| Q10.2 | M9311 | None | | | | | | | |
| R4.1 | M9703 | 1997 | 42 | 44 | 5 | 16 | 60 | 82 | J. Lobdell |
| R4.2 | M9704 | 1997 | 58 | 52 | 5 | 22 | 76 | 118 | J. Lobdell |
| R5.1 | L9502 | 1996 | 38 | 33 | 4 | 6 | 31 | 79 | J. Lobdell |
| R5.2 | M9626 | None | | | | | | | |
| R6.1 | M9522 | None | | | | | | | |
| R6.2 | M9523 | None | | | | | | | |
| R6.3 | L9281 | 1992 | 90 | 4 | 9 | 11 | 62 | 280 | J. Lobdell |
| R6.4 | M9321 | None | | | | | | | |
| R8.3 | MC7913 | 1998 | 133 | 64 | 15 | 24 | 121 | 318 | this study |
| R9.1 | B8537 | 1985 | | | | | 86 | | Bendock & Burr 1986 |
| | | 1993 | 24 | 8 | 6 | 16 | 65 | 150 | J. Lobdell |
| R9.2 | L9349 | 1993 | 15 | 8 | 3 | 7 | 30 | 55 | J. Lobdell |
| R16.1 | MC7902 | None | | | | | | | |
| R27.1 | M8301 | None | | | | | | | |
| S2.1 | L9501 | 1997 | 106 | 106 | 8 | 30 | 108 | 286 | J. Lobdell |
| S4.1 | B8533 | 1985 | | | | | 51 | | Bendock & Burr 1986 |
| | | 1993 | 19 | 11 | 2 | 5 | 22 | 46 | J. Lobdell |
| S4.2 | M9701 | 1997 | 45 | 48 | 4 | 15 | 55 | 73 | J. Lobdell |
| S4.3 | M9702 | 1997 | 45 | 48 | 4 | 15 | 55 | 73 | J. Lobdell |
| S5.1 | L9280 | 1992 | 56 | 28 | 8 | 11 | 59 | 220 | J. Lobdell |
| S6.1 | L9278 | 1992 | 2,400 | 1,300 | 184 | 83 | 965 | 5,000 | J. Lobdell |
| S6.2 | L9279 | 1992 | 47 | 18 | 8 | 10 | 56 | 190 | J. Lobdell |
| S7.1 | M9623 | None | | | | | | | |
| S7.2 | M9521 | None | | | | | | | |
| S8.1 | L9277 | 1992 | 12 | 6 | 5 | 14 | 57 | 120 | J. Lobdell |
| S9.2 | L9110 | 1991 | 20 | 12 | 3 | 309 | 21 | 116 | J. Lobdell |
| T2.1 | L9305 | 1993 | 23 | 11 | 2 | 5 | 20 | 650 | J. Lobdell |
| T2.2 | M9716 | None | | | | | | | |
| T4.2 | L9322 | 1993 | 7 | 6 | 2 | 4 | 18 | 110 | J. Lobdell |
| T4.3 | L9321 | 1993 | 10 | 6 | 2 | 4 | 18 | 90 | J. Lobdell |
| T4.4 | L9320 | 1993 | 16 | 9 | 3 | 6 | 28 | 98 | J. Lobdell |
| T4.5 | L9319 | 1993 | 13 | 8 | 2 | 4 | 19 | 79 | J. Lobdell |
| T5.1 | M9524 | None | | | | | | | |
| T5.2 | L9317 | 1993 | 14 | 8 | 2 | 4 | 18 | 34 | J. Lobdell |
| T5.3 | L9318 | 1993 | 14 | 8 | 2 | 4 | 18 | 73 | J. Lobdell |
| T5.4 | L9316 | 1993 | 13 | 8 | 2 | 5 | 22 | 18 | J. Lobdell |
| T6.1 | L9313 | 1993 | 19 | 9 | 3 | 8 | 33 | 54 | J. Lobdell |
| T6.2 | L9314 | 1993 | 300 | 15 | 19 | 14 | 113 | 610 | J. Lobdell |
| T7.2 | B8534 | 1985 | | | | | 103 | | Bendock & Burr 1986 |
| | | 1992 | 43 | 2 | 11 | 19 | 91 | 240 | J. Lobdell |
| T7.3 | L9342 | 1993 | 14 | 5 | 3 | 7 | 32 | 87 | J. Lobdell |
| T8.1 | L9283 | 1992 | 3 | 2 | 3 | 29 | 86 | 110 | J. Lobdell |
| T8.2 | B8536 | 1985 | | | | | 86 | | Bendock & Burr 1986 |
| | | 1992 | 14 | 3 | 9 | 18 | 80 | 150 | J. Lobdell |

Table 9. Summary of water quality parameters in lakes within or near the Colville River.

| ERG ¹ Name | Researcher Name | Year of Test | | | | | Total Hardness | Total Dissolved Solids | Source |
|--------------------------|--------------------|--------------------|--------------------|------------------|---------------------|-------------------|--------------------------------|------------------------------|---------------------|
| | | | Chloride (mg/l) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | [CaCO ₃] (mg/l) | | |
| T9.1 | L9330 | 1993 | 11 | 6 | 7 | 20 | 80 | 76 | J. Lobdell |
| T12.1 | L9211 | 1992 | 10 | 4 | 22 | 14 | 130 | 140 | J. Lobdell |
| T26.1 | M8101 | None | | | | | | | |
| U5.1 | M9525 | None | | | | | | | |
| U6.1 | L9312 | 1993 | 8 | 5 | 2 | 7 | 27 | 150 | J. Lobdell |
| U6.2 | L9311 | 1993 | 10 | 5 | 5 | 14 | 54 | 100 | J. Lobdell |
| U6.3 | L9310 | 1993 | 10 | 5 | 4 | 11 | 43 | 130 | J. Lobdell |
| U7.1 | M9527 | None | | | | | | | |
| U7.2 | M9526 | None | | | | | | | |
| U9.1 | B8535 | 1985 | | | | | 103 | | Bendock & Burr 1986 |
| | | 1992 | 13 | 6 | 10 | 22 | 95 | 140 | J. Lobdell |
| U11.1 | L9272 | 1992 | 4 | 3 | 3 | 10 | 37 | <50 | J. Lobdell |
| U26.1 | M8102 | None | | | | | | | |
| V7.1 | B8532 | 1985 | | | | | 34 | | Bendock & Burr 1986 |
| V8.1 | M9622 | None | | | | | | | |
| V8.2 | M9711 | None | | | | | | | |
| V8.3 | M9621 | 1996 | 7 | 11 | 5 | 22 | 76 | 124 | J. Lobdell |
| V14.1 | MC7903 | 1991 | 10 | 4 | 2 | 25 | 70 | 144 | J. Lobdell |
| V21.1 | L9119 | None | | | | | | | |
| V21.2 | M9512 | None | | | | | | | |
| V29.1 | M8105 | None | | | | | | | |
| W5.1 | L9323 | 1993 | 4 | 3 | 2 | 4 | 17 | 53 | J. Lobdell |
| W5.2 | L9324 | 1993 | 2 | 2 | 2 | 5 | 19 | 95 | J. Lobdell |
| W7.1 | MC7911 | 1992 | 4 | 3 | 4 | 10 | 40 | 73 | J. Lobdell |
| W8.1 | M9710 | None | | | | | | | |
| W9.1 | L9332 | 1993 | 3 | 2 | 2 | 10 | 33 | 40 | J. Lobdell |
| W10.1 | M9501 | None | | | | | | | |
| W20.1 | L9121 | None | | | | | | | |
| W21.1 | L9120 | None | | | | | | | |
| W21.2 | M9515 | None | | | | | | | |
| W26.1 | M8103 | None | | | | | | | |
| W27.1 | M8104 | None | | | | | | | |
| X5.1 | B8531 | 1985 | | | | | 51 | | Bendock & Burr 1986 |
| | | 1993 | 4 | 3 | 2 | 6 | 23 | 50 | J. Lobdell |
| X6.2 | L9328 | 1993 | 3 | 2 | 2 | 6 | 25 | 46 | J. Lobdell |
| X9.1 | L9333 | 1993 | 2 | 2 | 2 | 9 | 30 | 49 | J. Lobdell |
| X10.1 | M9502 | None | | | | | | | |
| X20.1 | L9122 | None | | | | | | | |
| X21.1 | M9516 | None | | | | | | | |
| X22.1 | M9514 | None | | | | | | | |
| Y6.1 | M9606 | 1996 | 5 | 8 | 3 | 11 | 42 | 49 | J. Lobdell |
| Y6.3 | L9327 | 1993 | 2 | 2 | 2 | 5 | 19 | 78 | J. Lobdell |
| Y8.2 | L9335 | 1993 | 2 | 4 | 2 | 8 | 26 | <10 | J. Lobdell |
| Y9.1 | M9505 | None | | | | | | | |
| Y10.1 | M9528 | None | | | | | | | |
| Y11.1 | M9614 | 1996 | 11 | 10 | 3 | 24 | 69 | 115 | J. Lobdell |

Table 9. Summary of water quality parameters in lakes within or near the Colville River.

| ERG ¹ Name | Researcher Name | Year of Test | | | | | Total Hardness | Total Dissolved Solids | Source |
|--------------------------|--------------------|--------------------|--------------------|------------------|---------------------|-------------------|--------------------------------|------------------------------|---------------------|
| | | | Chloride (mg/l) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | [CaCO ₃] (mg/l) | | |
| Y12.1 | M9617 | 1996 | 6 | 7 | 2 | 24 | 68 | 104 | J. Lobdell |
| Y14.1 | M9618 | 1996 | 3 | 3 | 1 | 11 | 29 | 38 | J. Lobdell |
| Y18.1 | M9620 | 1996 | 18 | 10 | 3 | 25 | 72 | 114 | J. Lobdell |
| Y20.1 | L9123 | 1991 | 6 | 2 | 1 | 19 | 53 | 88 | J. Lobdell |
| Z6.1 | M9608 | None | | | | | | | |
| Z6.2 | B8530 | 1985 | | | | | 34 | | Bendock & Burr 1986 |
| | | 1996 | 18 | 6 | 3 | 12 | 42 | 41 | J. Lobdell |
| Z7.1 | M9607 | 1996 | 8 | 10 | 5 | 15 | 59 | 79 | J. Lobdell |
| Z8.1 | M9509 | None | | | | | | | |
| Z9.1 | L9334 | 1993 | 2 | 2 | 2 | 9 | 29 | 27 | J. Lobdell |
| Z10.1 | M9601 | 1996 | 11 | 10 | 3 | 38 | 105 | 132 | J. Lobdell |
| Z18.1 | M9619 | 1996 | 43 | 22 | 6 | 39 | 121 | 208 | J. Lobdell |
| AA10.1 | M9602 | 1996 | 16 | 14 | 3 | 32 | 90 | 150 | J. Lobdell |
| AA14.1 | M9605 | 1996 | 10 | 10 | 3 | 31 | 90 | 121 | J. Lobdell |
| AA18.1 | L9128 | 1991 | 5 | 2 | 1 | 22 | 61 | 72 | J. Lobdell |
| BB9.1 | M9603 | 1996 | 11 | 8 | 3 | 25 | 77 | 105 | J. Lobdell |
| CC8.1 | M9609 | 1996 | 4 | 5 | 3 | 16 | 52 | 46 | J. Lobdell |
| CC8.2 | M9610 | 1996 | 3 | 3 | 2 | 19 | 56 | 46 | J. Lobdell |
| CC9.1 | M9613 | 1996 | 6 | 5 | 2 | 29 | 80 | 84 | J. Lobdell |
| CC11.1 | MC7904 | 1991 | 5 | 2 | 1 | 13 | 37 | 52 | J. Lobdell |
| DD8.1 | M9611 | 1996 | 3 | 3 | 2 | 18 | 53 | 48 | J. Lobdell |
| DD10.1 | MC7906 | 1996 | 5 | 5 | 1 | 19 | 54 | 65 | J. Lobdell |
| DD11.1 | M9615 | 1996 | 11 | 16 | 3 | 36 | 104 | 130 | J. Lobdell |
| EE7.4 | M9612 | 1996 | 3 | 3 | 3 | 20 | 61 | 48 | J. Lobdell |
| FF3.1 | MC7907 | None | | | | | | | |
| FF9.1 | MC7905 | 1996 | 8 | 6 | 2 | 24 | 68 | 84 | J. Lobdell |
| | MC7908 | None | | | | | | | |
| | MC7916 | None | | | | | | | |
| | MC7917 | None | | | | | | | |
| | MC7918 | None | | | | | | | |

¹ ERG = Alaska Clean Seas Emergency Response Grid

Literature Cited

Bendock, T.N. and J.M. Burr. 1986. Arctic Area Trout Studies. Federal Aid in Fish Restoration and Anadromous Fish Studies, 1985-1986, Volume 27, Study T-7-1, Alaska Department of Fish and Game, Sport Fish Division, Juneau, AK. 75p.

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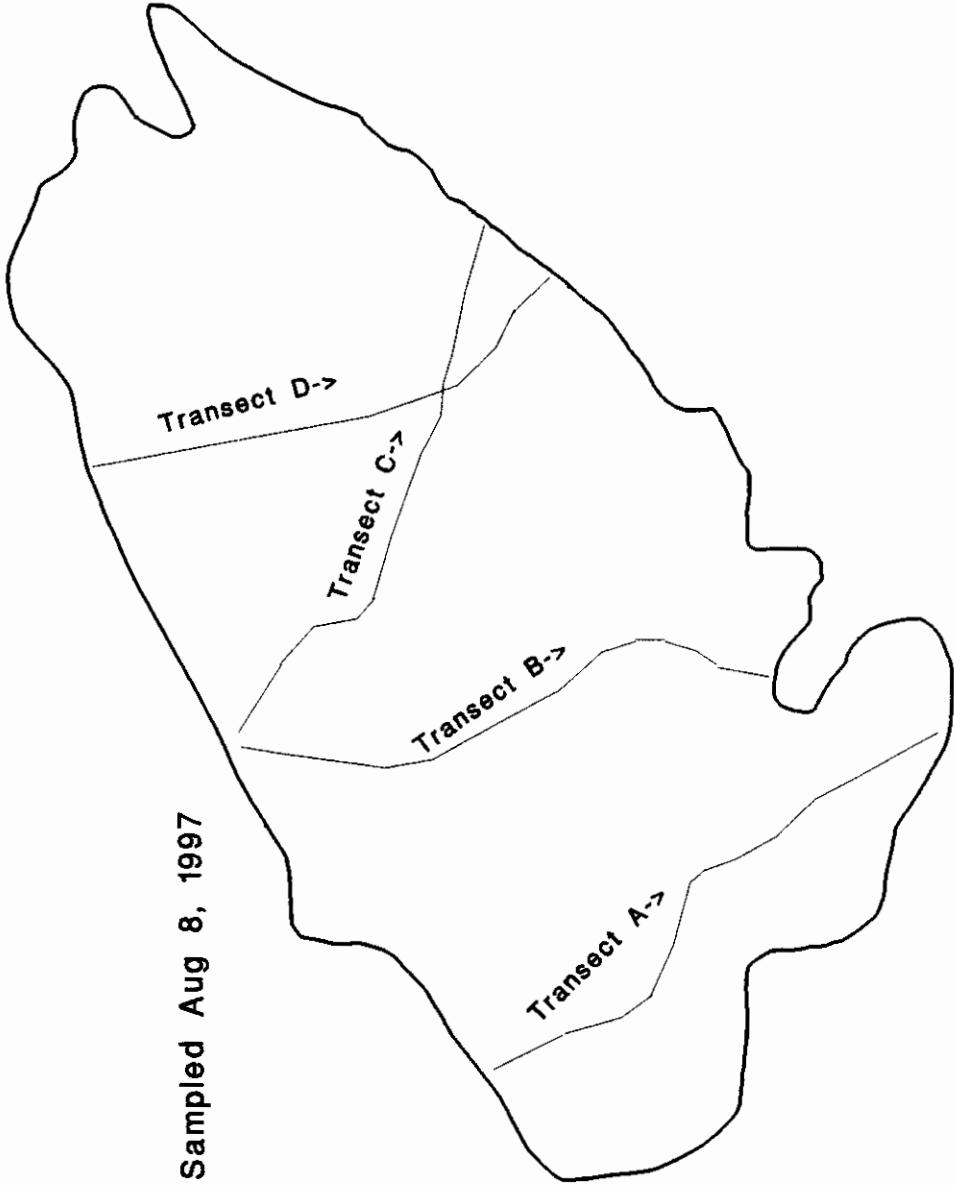
Moulton, L.L. 1997. Colville Delta fish habitat study, 1995-1996. Prepared by MJM Research for ARCO Alaska Inc. Bainbridge Island, WA.

Moulton, L.L. and C.B. Dew. 1983. Fish utilization of tundra streams between the Colville and Kuparuk rivers. Prepared by Woodward-Clyde Consultants for ARCO Alaska, Inc. Anchorage, AK 39p.

Lake Summaries

M7.2
(M9714)
70°27.12'N 150°52.25'W

Sampled Aug 8, 1997



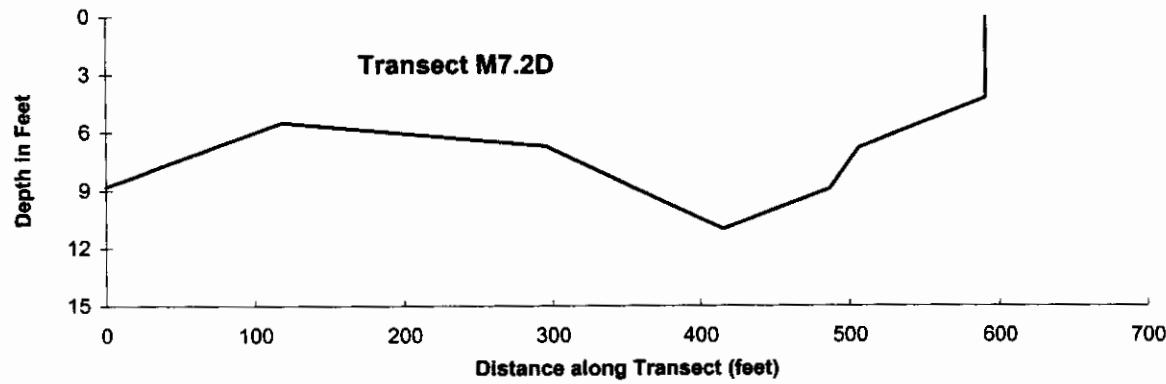
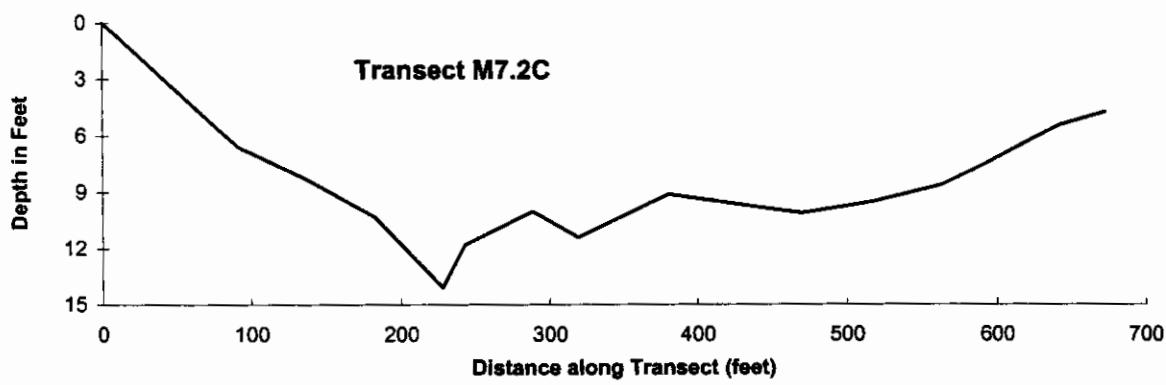
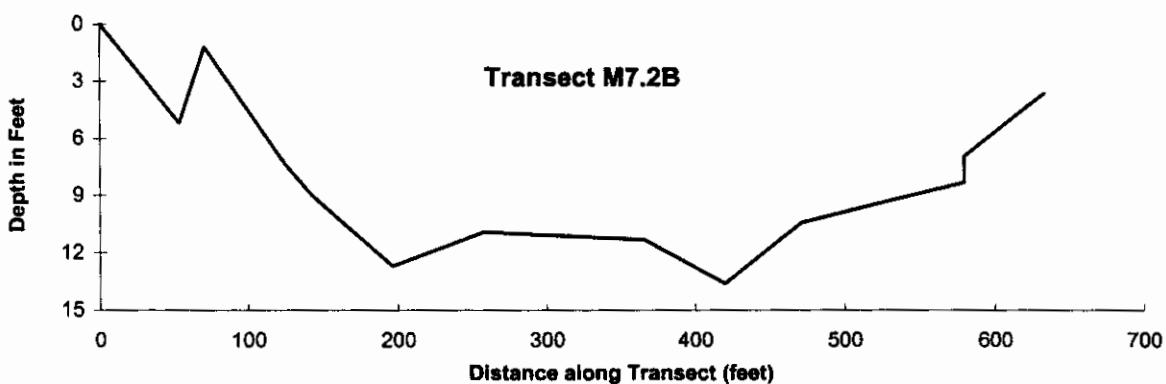
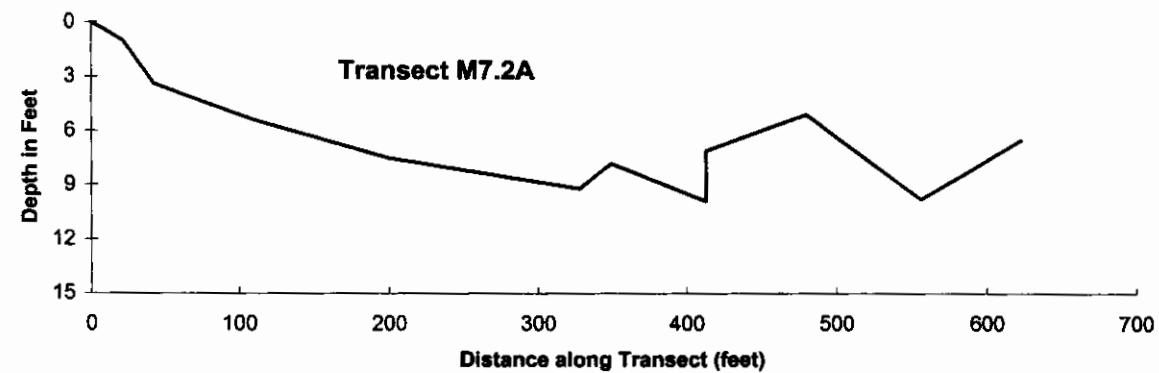
1500 ft
1200
900
600
300
0

Lake M7.2

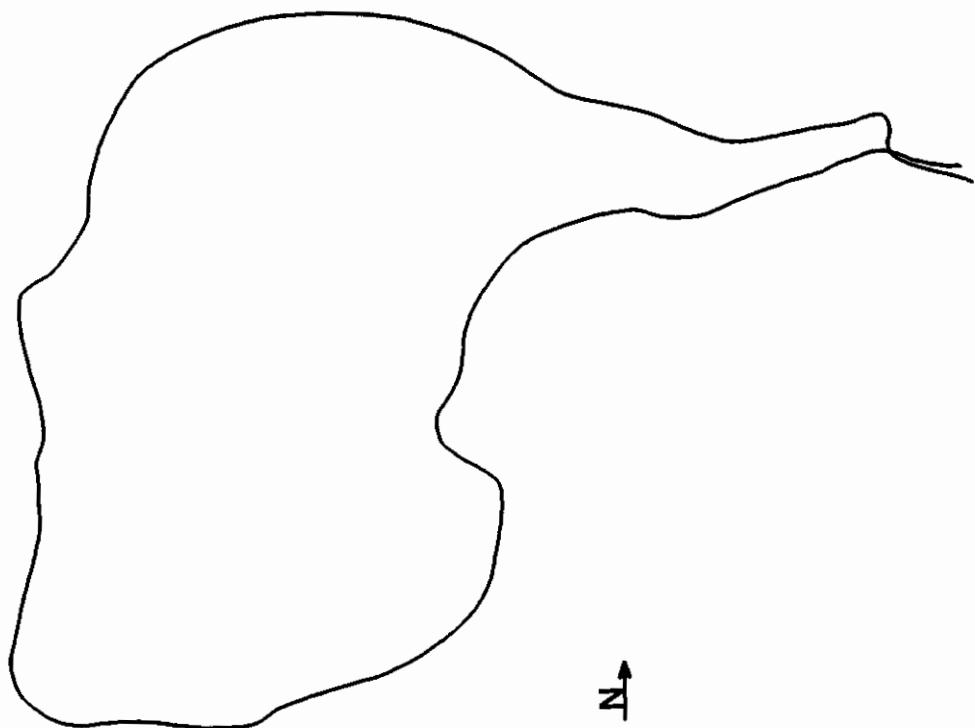
Other Names: M9714
Location: 70°27.12'N 150°52.25'W
USGS Quad Sheet: Harrison Bay B-2: T13N R5E, Sect 28
Habitat: Perched Lake (Frequent Flooding)
Area: 17 acres
Maximum Depth: 14.1 feet
Active Outlet: No
Salinity: 7.6 ppt
pH: 8.3
Calculated Volume: 26.3 million gallons
Permittable Volume: No fish concern

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|-------------|----------|-------------------|---------|------------------|
| Gillnet | Aug 8 97 | 12.0 | None | 0 |
| Minnow Trap | Aug 8 97 | 11.9 | None | 0 |



M12.1
(L9201)
70°27.52'N 150°38.79'W



0 300 600 900 1200 1500 ft

Lake M12.1

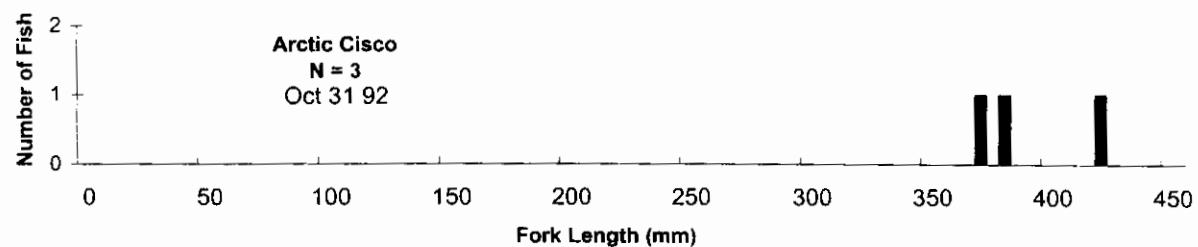
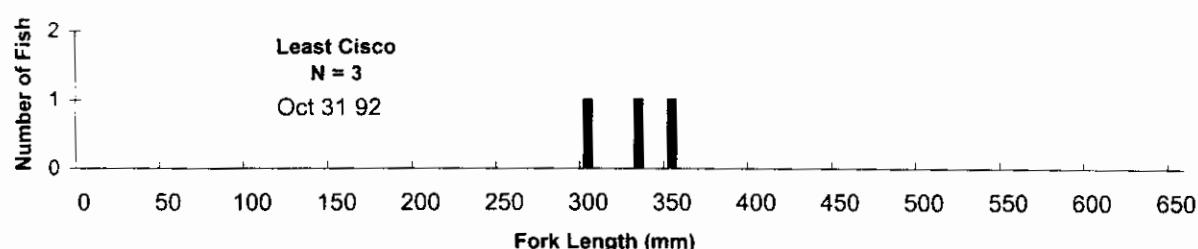
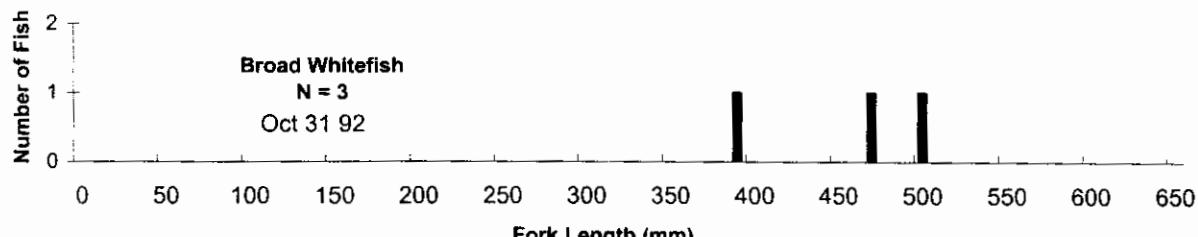
Other Names: L9201; M9207
Location: 70°27.52'N 150°38.79'W
USGS Quad Sheet: Harrison Bay B-2: T13N R6E, Sect 20, 29
Habitat: Tapped Lake
Area: 33 acres
Maximum Depth: 17 feet
Active Outlet: Yes
Calculated Volume: 59.5 million gallons
Permittable Volume: 5.3 million gallons

Water Quality:

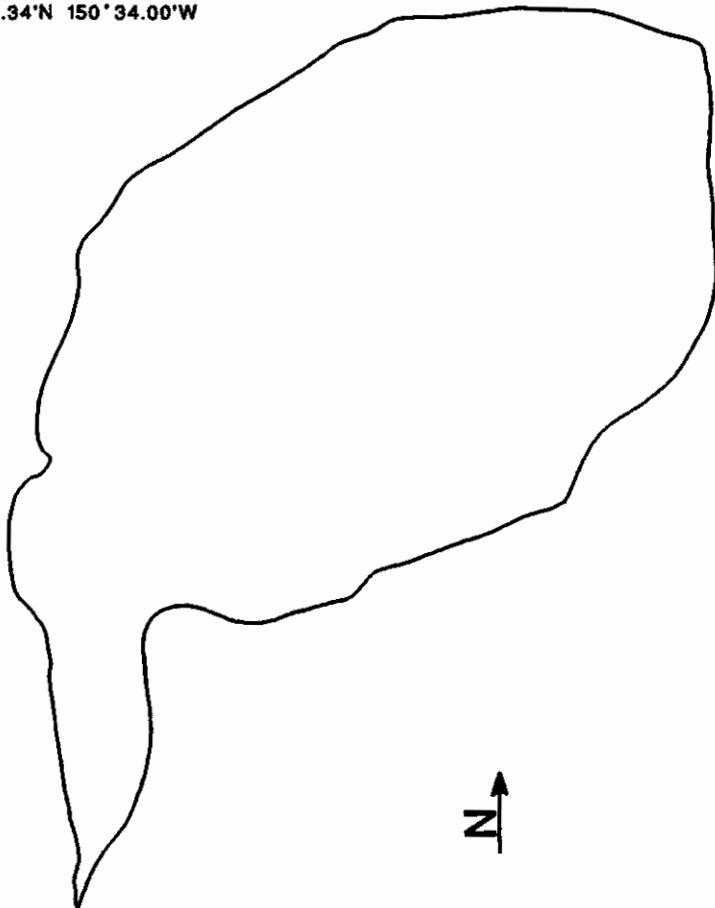
| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------|----------------|---------------|------------------|----------------|--|-------------------------------|------------|
| 1992 | 300 | 150.0 | 27 | 30 | 186 | 710 | J. Lobdell |

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|----------|-----------|----------------|--------------------|---------------|------------------|
| Gill Net | Oct 31 92 | 27.5 | Broad whitefish | 3 | 392-505 |
| | | | Humpback whitefish | 1 | 168 |
| | | | Least cisco | 3 | 303-353 |
| | | | Arctic cisco | 3 | 372-429 |



M13.1
(L9101)
70°27.34'N 150°34.00'W



N
↑

0 300 600 900 1200 1500 ft

Lake M13.1

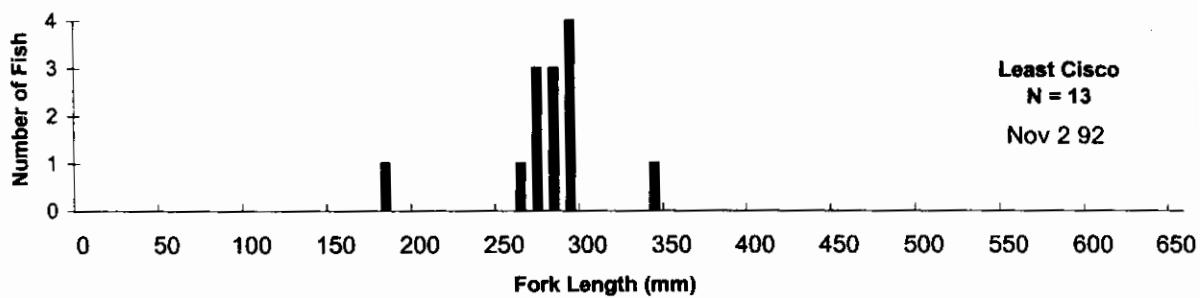
Other Names: L9101; M9204
Location: 70°27.34'N 150°34.00'W
USGS Quad Sheet: Harrison Bay B-1: T13N R6E, Sect 27
Habitat: Perched Lake (Infrequent Flooding)
Area: 34 acres
Maximum Depth: 21 feet
Active Outlet: No
Spec. Conductance: 212 $\mu\text{S}/\text{cm}$
Calculated Volume: 75.8 million gallons
Permittable Volume: 7.6 million gallons

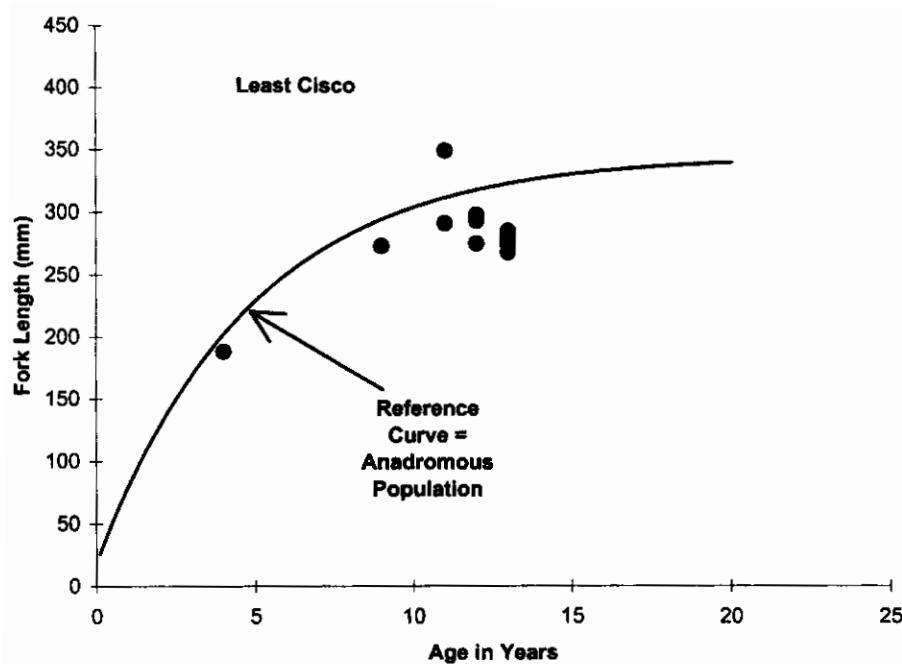
Water Quality:

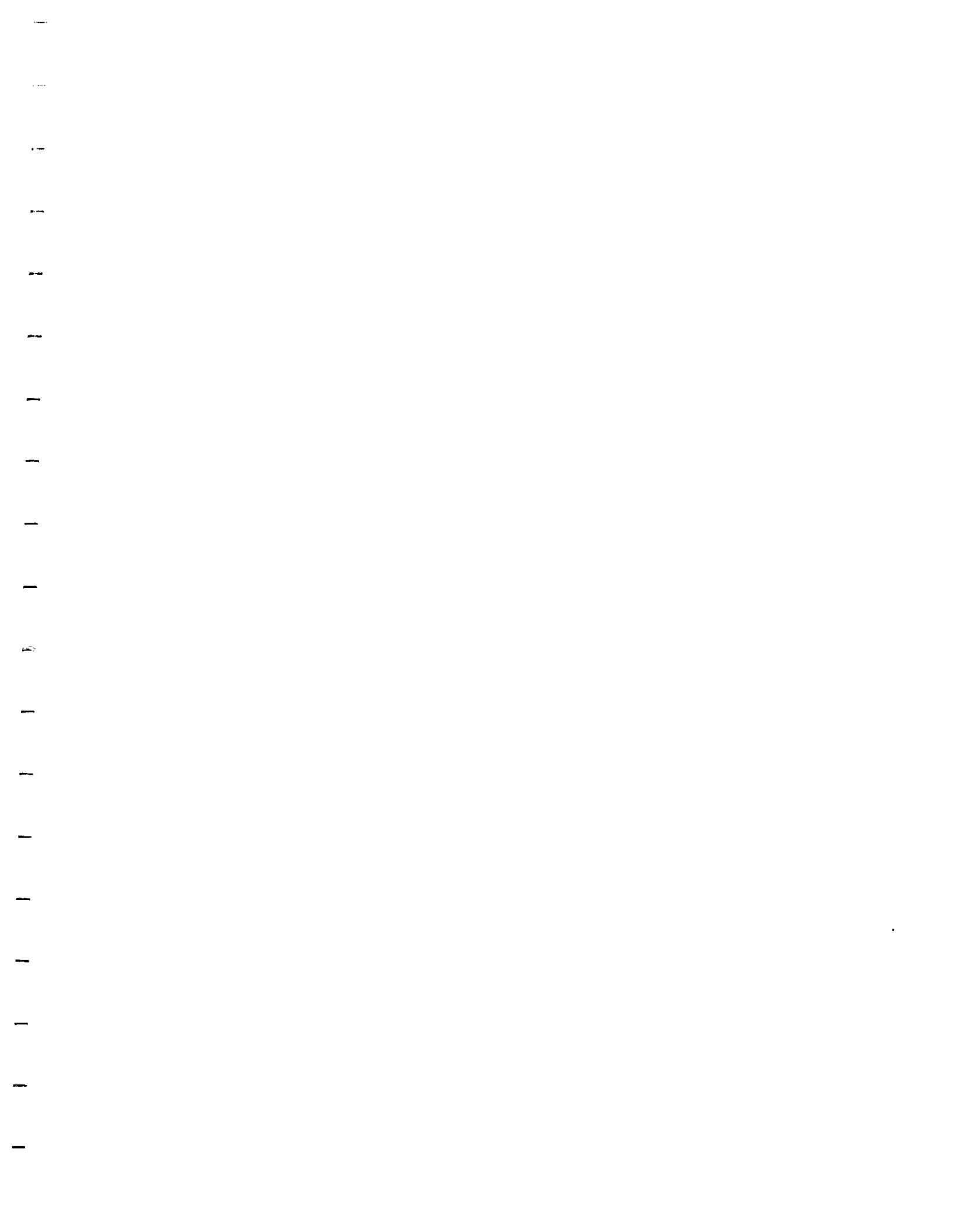
| Year of Test | Chloride (mg/l) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------------|--------------------|------------------|---------------------|-------------------|---|--|------------|
| 1991 | 730 | 430.0 | 52 | 37 | 306 | 1510 | J. Lobdell |

Catch Record:

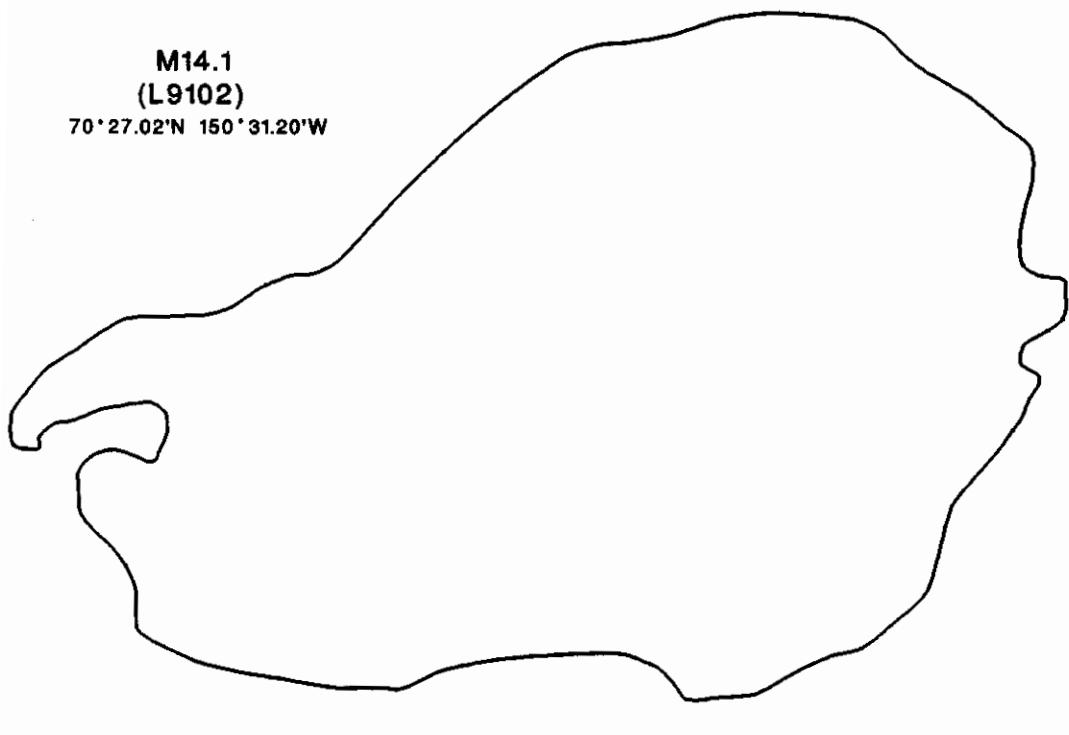
| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|----------|----------|-------------------|-------------|------------------|---------------------|
| Gill Net | Nov 2 92 | 25.0 | Least cisco | 13 | 188-349 |







M14.1
(L9102)
70°27.02'N 150°31.20'W



0 300 600 900 1200 1500 ft

Lake M14.1

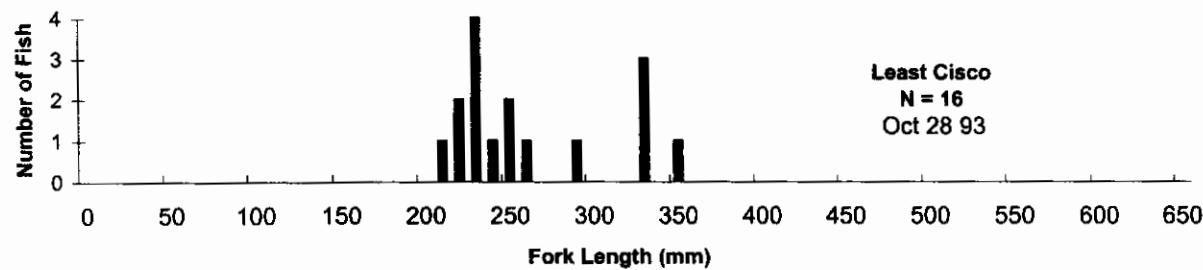
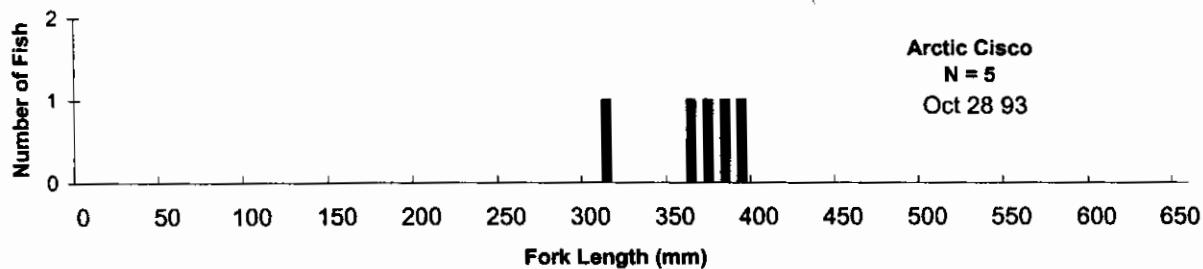
Other Names: L9102; M9301
Location: 70°27.02'N 150°31.20'W
USGS Quad Sheet: Harrison Bay B-1: T13N R6E, Sect 26
Habitat: Perched Lake (Infrequent Flooding)
Area: 30 acres
Maximum Depth: 9 feet
Active Outlet: No
Calculated Volume: 28.7 million gallons
Permittable Volume: 1.0 million gallons

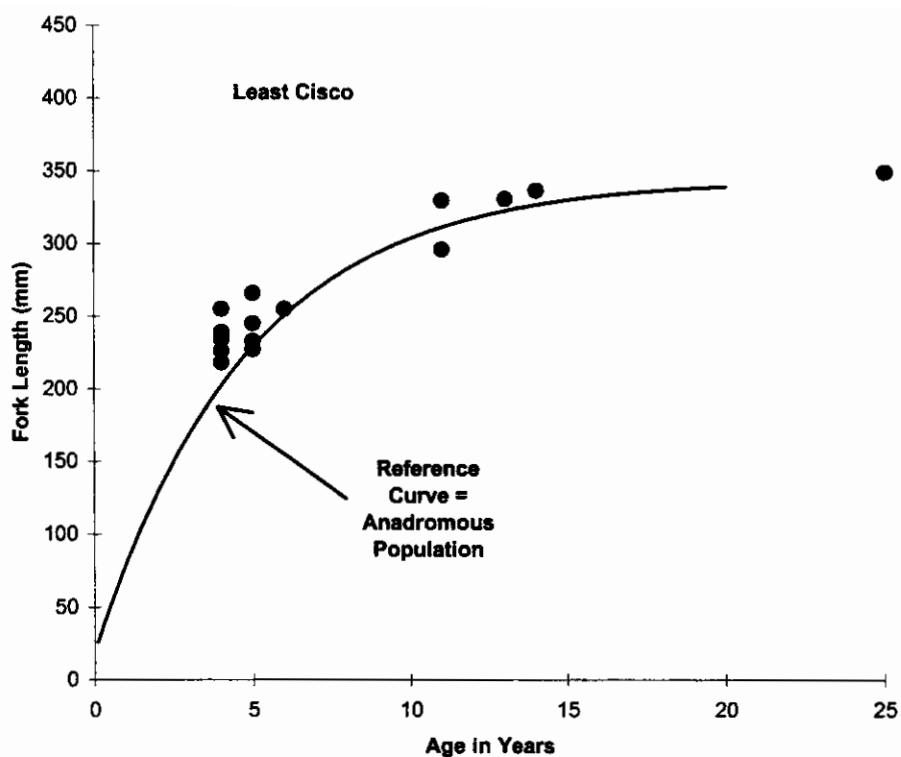
Water Quality:

| Year of Test | Chloride (mg/l) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------|-----------------|---------------|------------------|----------------|--|-------------------------------|------------|
| 1991 | 33 | 21.0 | 5.8 | 6.4 | 40 | 130 | J. Lobdell |

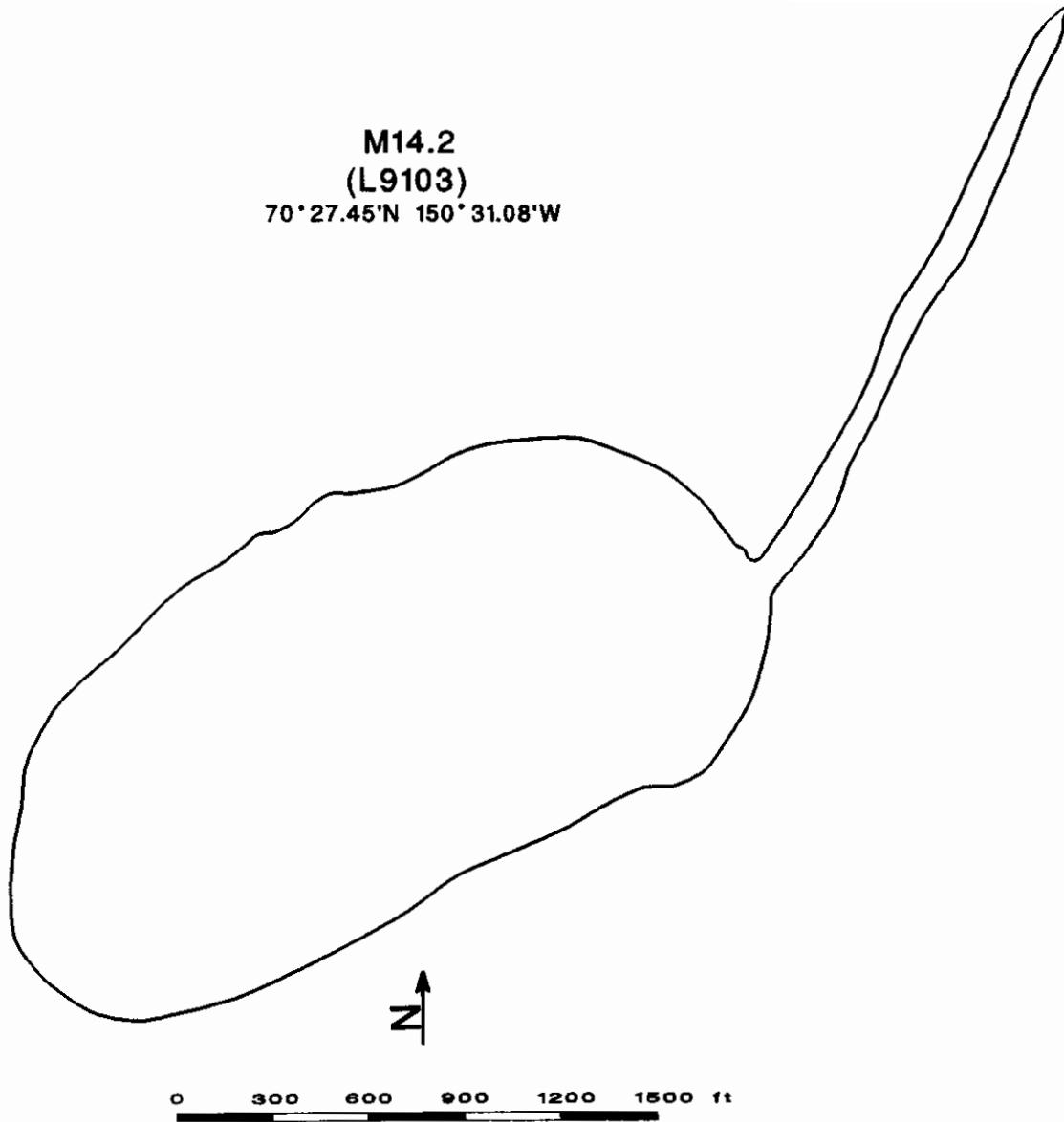
Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|-------------|-----------|----------------|--------------|---------------|------------------|
| Gill Net | Oct 28 93 | 22.3 | Least cisco | 16 | 218-350 |
| | | | Arctic cisco | 5 | 318-394 |
| Minnow Trap | Oct 28 93 | 22.3 | None | 0 | |





M14.2
(L9103)
70° 27.45'N 150° 31.08'W



Lake M14.2

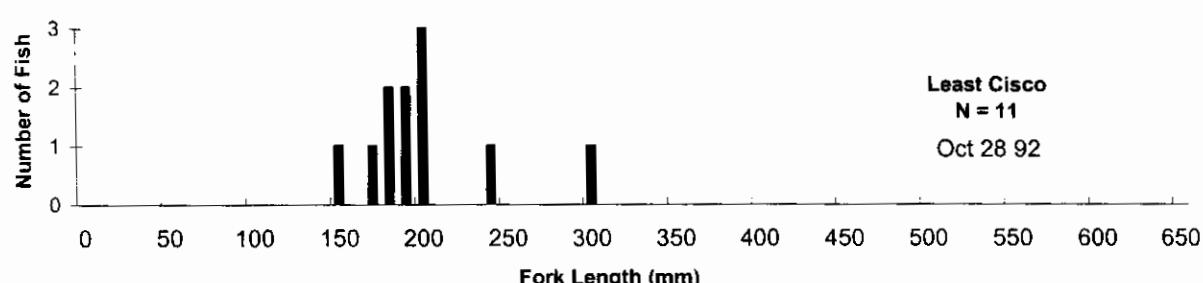
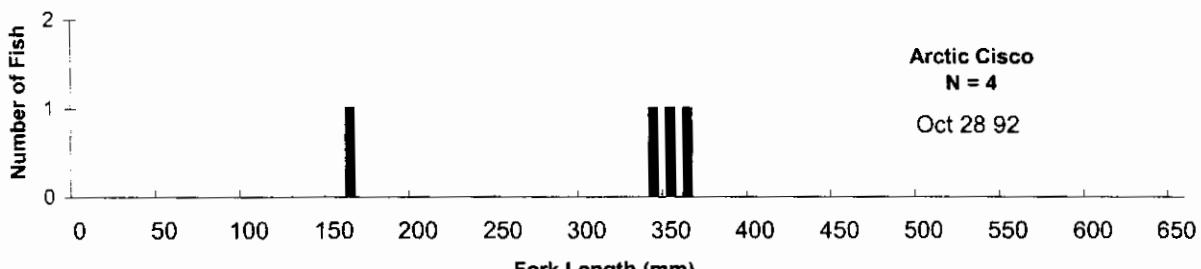
Other Names: L9103; M9203
Location: 70°27.45'N 150°31.08'W
USGS Quad Sheet: Harrison Bay B-1: T13N R6E, Sect 26
Habitat: Perched Lake (Frequent Flooding)
Area: 61 acres
Maximum Depth: 12 feet
Active Outlet: No
Calculated Volume: 78.5 million gallons
Permittable Volume: 4.9 million gallons

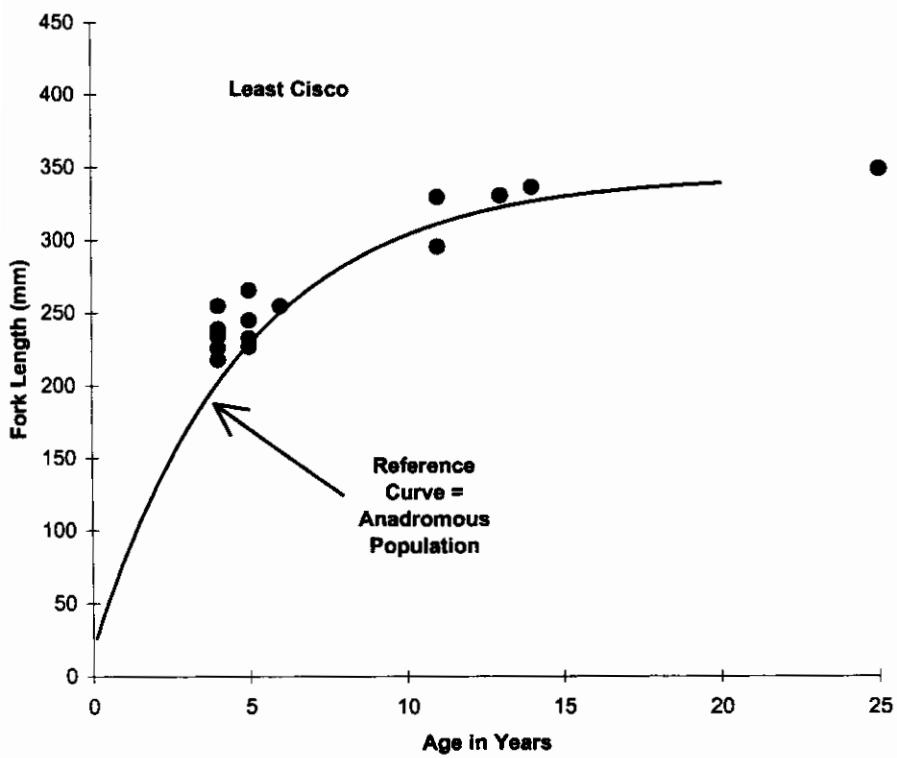
Water Quality:

| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------------|-------------------|------------------|---------------------|-------------------|---|--|------------|
| 1991 | 970 | 540.0 | 71 | 51 | 420 | 1910 | J. Lobdell |

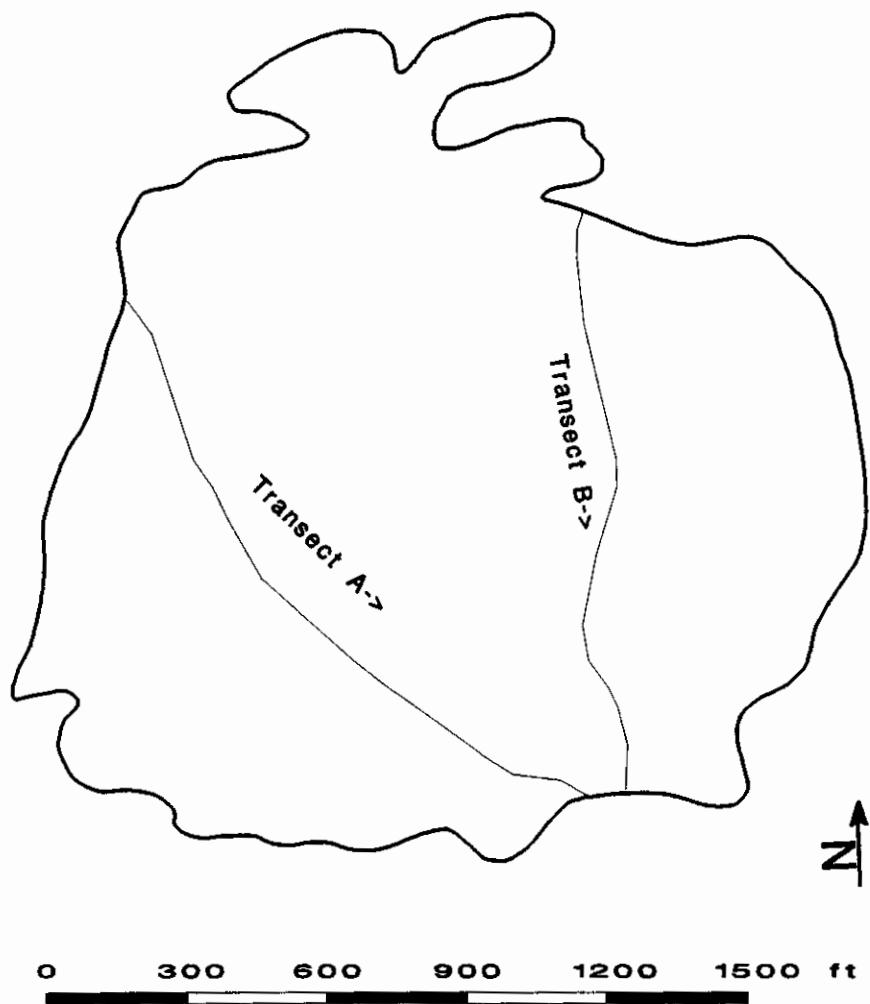
Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|----------|-----------|-------------------|-----------------|------------------|---------------------|
| Gill Net | Oct 28 92 | 46.5 | Broad whitefish | 1 | 183 |
| | | | Least cisco | 11 | 150-303 |
| | | | Arctic cisco | 4 | 160-363 |





N7.1
(M9211)
70°26.11'N 150°51.70'W

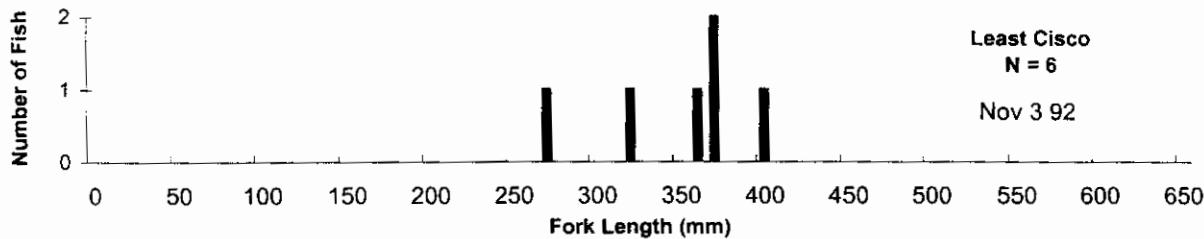
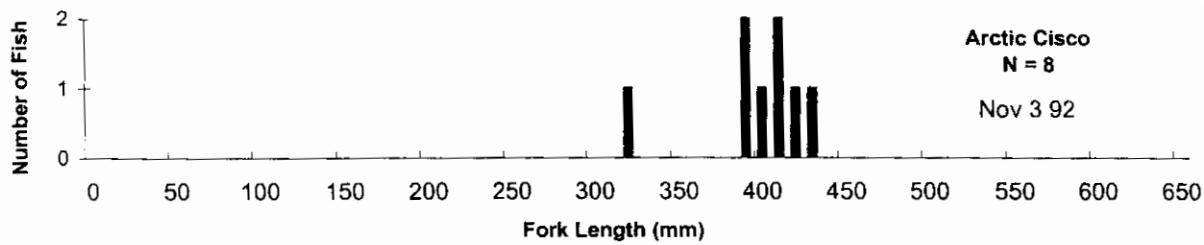


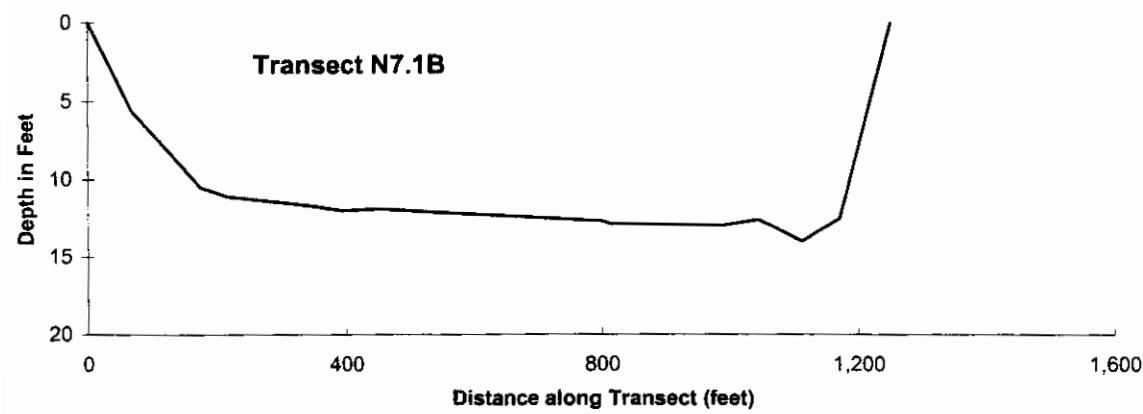
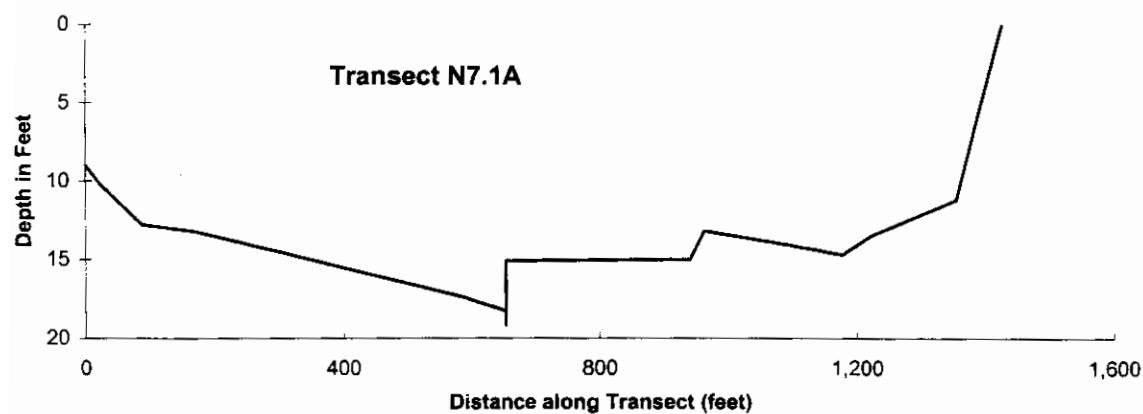
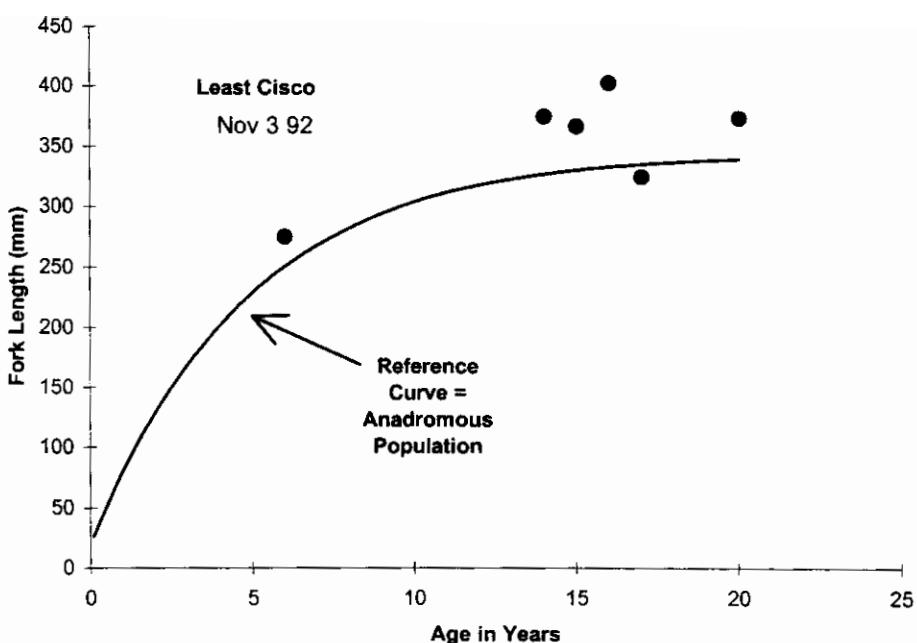
Lake N7.1

Other Names: M9211
Location: 70°26.11'N 150°51.70'W
USGS Quad Sheet: Harrison Bay B-2: T13N R5E, Sect 33
Habitat: Perched Lake (Infrequent Flooding)
Area: 43 acres
Maximum Depth: 19.2 feet
Active Outlet: No
Spec. Conductance: 6,545 $\mu\text{S}/\text{cm}$
pH: 8.0
Calculated Volume: 88.6 million gallons
Permittable Volume: 8.4 million gallons

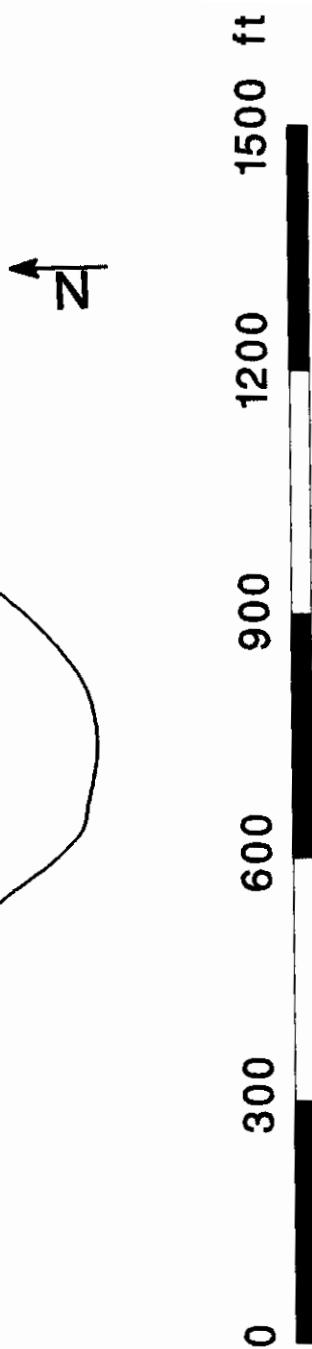
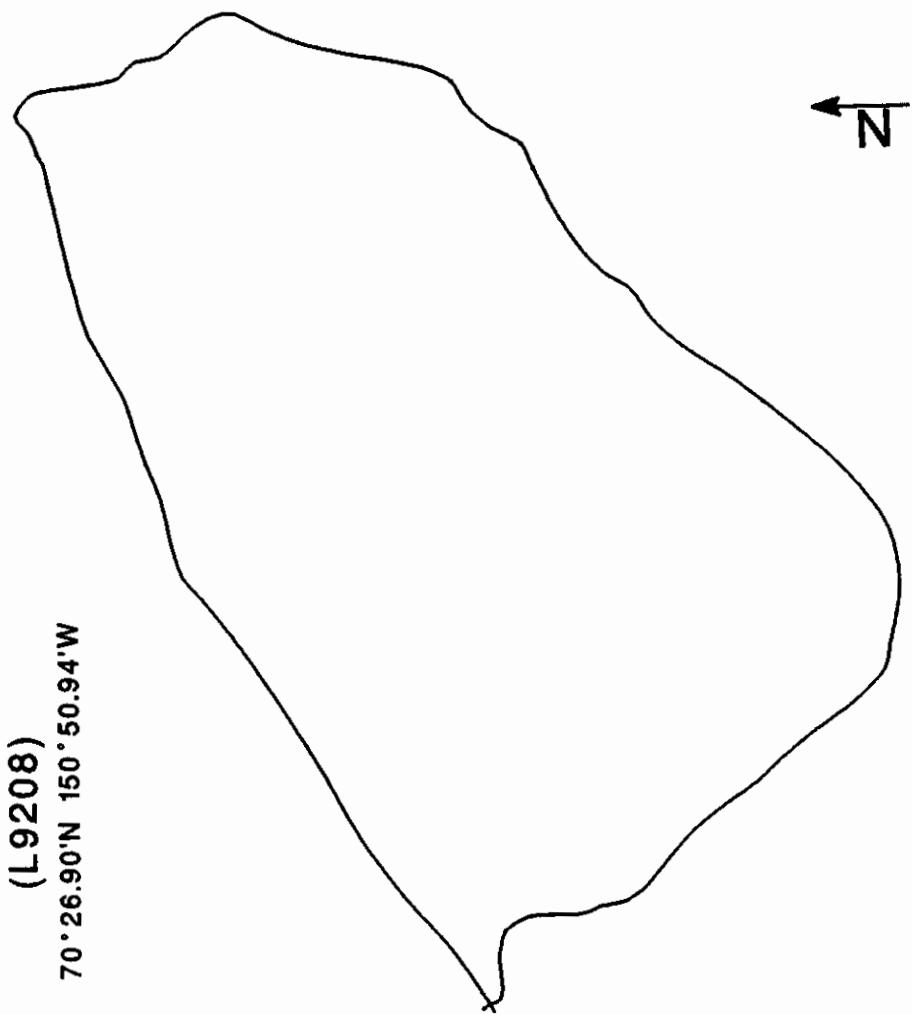
Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|----------|----------|-------------------|--------------|---------------|---------------------|
| Gill Net | Nov 3 92 | 26.0 | Least cisco | 6 | 275-403 |
| | | | Arctic cisco | 8 | 320-430 |





N8.1
(L9208)
70°26.90'N 150°50.94'W



Lake N8.1

Other Names: L9208; M9210
Location: 70°26.90'N 150°50.94'W
USGS Quad Sheet: Harrison Bay B-2: T13N R5E, Sect 28
Habitat: Perched Lake (Infrequent Flooding)
Area: 15 acres
Maximum Depth: 11 feet
Active Outlet: No
Calculated Volume: 17.6 million gallons
Permittable Volume: No fish concern

Water Quality:

| Year of Test | Chloride (mg/l) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] | Total Dissolved Solids (mg/l) | Source |
|--------------------|--------------------|------------------|---------------------|-------------------|---|--|------------|
| | | | | | (mg/l) | (mg/l) | |
| 1993 | 4800 | 1990.0 | 260 | 161 | 1500 | 9200 | J. Lobdell |

Catch Record:

| Gear | Date | Effort (hours) | Species | Number |
|----------|----------|-------------------|---------|--------|
| | | | | Caught |
| Gill Net | Nov 3 92 | 30.5 | None | 0 |

Salinity Profile:

| Date | Depth (m) | Salinity (ppt) |
|----------|--------------|-------------------|
| Nov 3 92 | 0.5 | 3.9 |
| | 1.0 | 3.9 |
| | 1.5 | 3.9 |
| | 2.0 | 4.0 |
| | 2.5 | 4.0 |
| | 3.0 | 4.0 |
| | 3.5 | 5.5 |

N10.1
(L9203)

70° 26.53'N 150° 43.38'W



Lake N10.1

Other Names: L9203; M9208
Location: 70°26.53'N 150°43.38'W
USGS Quad Sheet: Harrison Bay B-2: T13N R5E, Sect 25
Habitat: Perched Lake (Infrequent Flooding)
Area: 121 acres
Maximum Depth: 18 feet
Active Outlet: No
Calculated Volume: 233.2 million gallons
Permittable Volume: 21.4 million gallons

Water Quality:

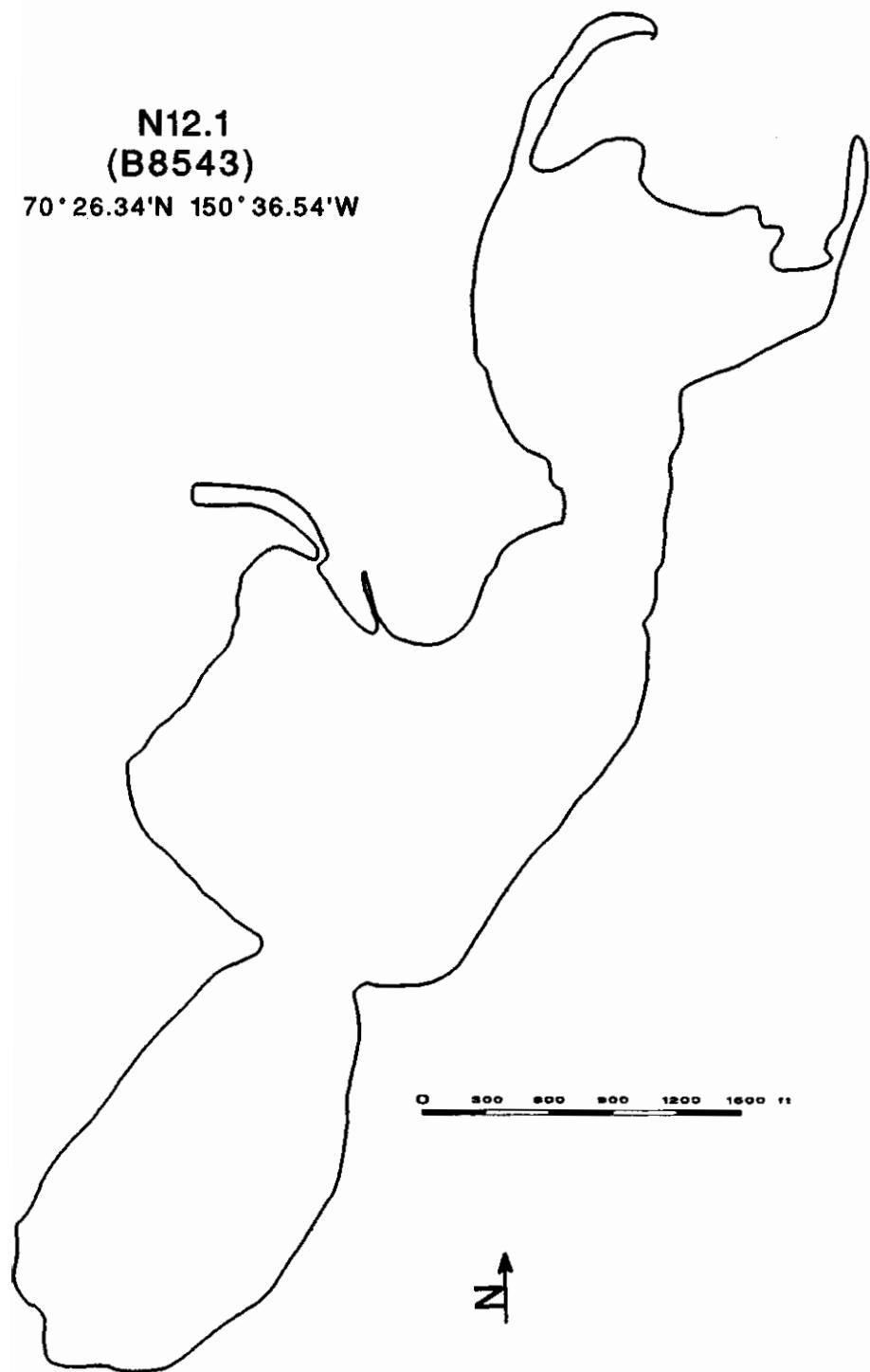
| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------------|-------------------|------------------|---------------------|-------------------|---|--|------------|
| 1992 | 120 | 57.0 | 9.8 | 9.2 | 63 | 250 | J. Lobdell |

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|----------|----------|-------------------|--------------------|------------------|---------------------|
| Gill Net | Nov 1 92 | 23.0 | Broad whitefish | 1 | 354 |
| | | | Humpback whitefish | 1 | 420 |
| | | | Arctic cisco | 1 | 157 |

N12.1
(B8543)

70° 26.34'N 150° 36.54'W



Lake N12.1

Other Names: B8543; L9202; M9102
Location: 70°26'N 150°37'W
USGS Quad Sheet: Harrison Bay B-2: T13N R6E, Sect 33
Habitat: Tapped Lake
Area: 159 acres
Maximum Depth: 13 feet
Active Outlet: Yes
Spec. Conductance: 1,261 $\mu\text{S}/\text{cm}$ (1985)
pH: 8.5 (1985)
Calculated Volume: 222.6 million gallons
Permittable Volume: 15.4 million gallons

Water Quality:

| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------|----------------|---------------|------------------|----------------|--|-------------------------------|---------------------|
| 1985 | | | | | 188 | | Bendock & Burr 1986 |
| 1993 | 2700 | 1400.0 | 160 | 75 | 846 | 5700 | J. Lobdell |

Catch Record:

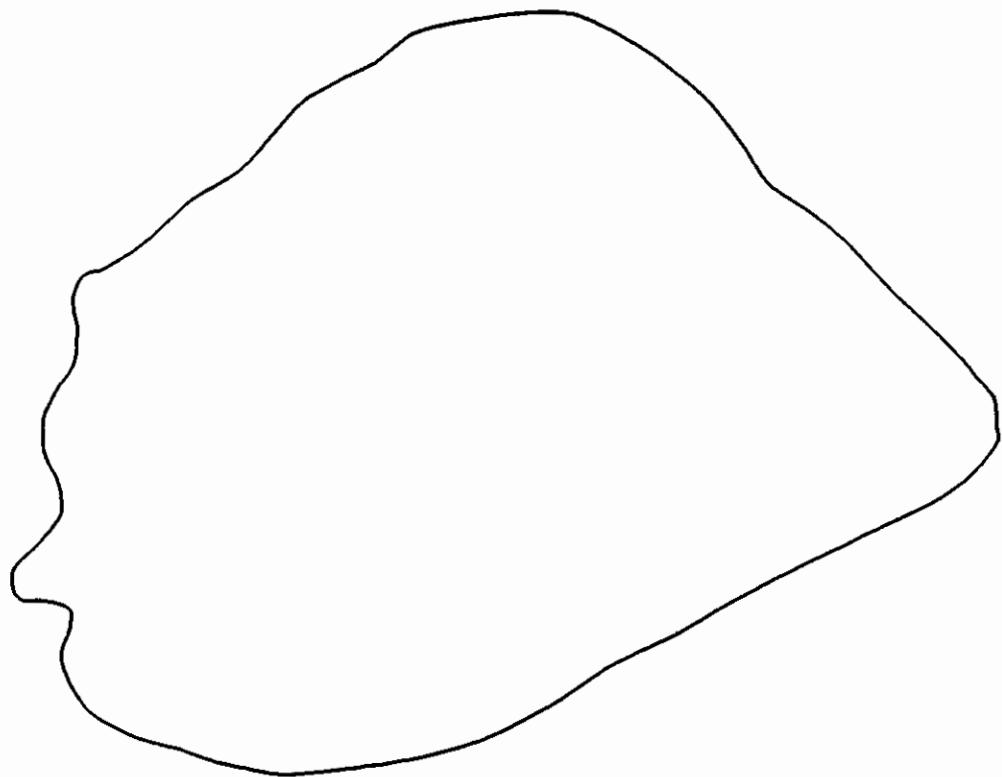
| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|----------|-----------------|----------------|------------------|---------------|------------------|
| Gill Net | Jul 16-19, 1985 | ~24 | Broad whitefish | ? | |
| | | | Least cisco | ? | |
| | | | Arctic cisco | ? | |
| | | | Round whitefish | ? | |
| | | | Arctic flounder | ? | |
| | | | Fourhorn sculpin | ? | |
| Gill Net | Nov 3 91 | 23.0 | Rainbow smelt | 3 | 265-272 |
| Gill Net | Nov 5 91 | 48.0 | Arctic cisco | 2 | 241, 252 |
| | | | Rainbow smelt | 10 | 137-278 |

Source of 1985 data: Bendock & Burr 1986

Salinity Profile:

| Date | Depth (m) | Salinity (ppt) |
|----------|-----------|----------------|
| Nov 2 91 | 0.0 | 7.5 |
| | 0.5 | 7.5 |
| | 1.0 | 9.5 |
| | 1.5 | 11.9 |
| | 2.0 | 13.0 |
| | 2.5 | 14.5 |
| | 3.0 | 15.6 |
| | 3.5 | 16.1 |
| | 4.0 | 17.7 |
| Nov 5 91 | 0.0 | 10.0 |
| | 0.5 | 10.0 |
| | 1.0 | 12.0 |
| | 1.5 | 16.3 |
| | 2.0 | 18.5 |
| | 2.5 | 19.4 |
| | 3.0 | 19.8 |

N13.2
(M9206)
70°26.38'N 150°34.66'W



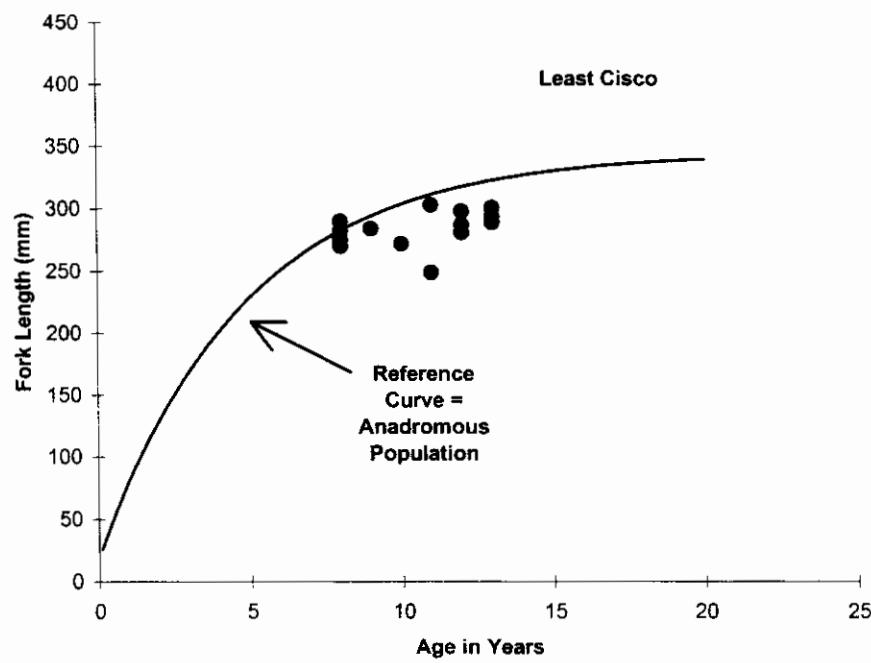
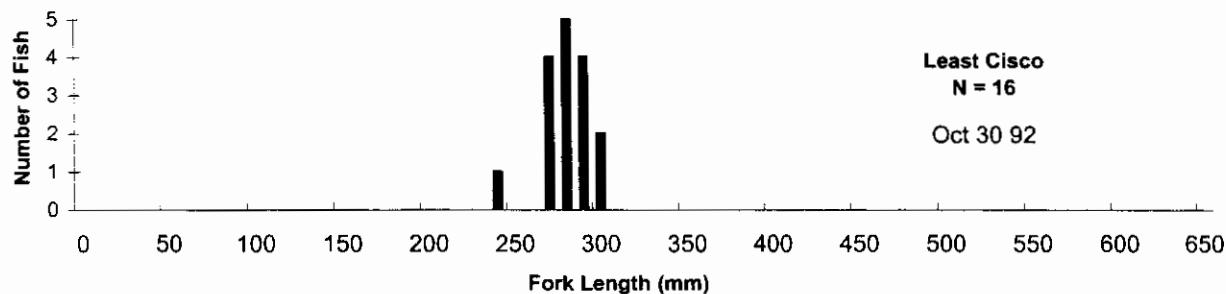
0 300 600 900 1200 1500 ft

Lake N13.2

Other Names: M9206
Location: 70°26.38'N 150°34.66'W
USGS Quad Sheet: Harrison Bay B-1: T13N R6E, Sect 34
Habitat: Perched Lake (Frequent Flooding)
Area: 26 acres
Maximum Depth: 15 feet
Active Outlet: No
Calculated Volume: 41.4 million gallons
Permittable Volume: 3.3 million gallons

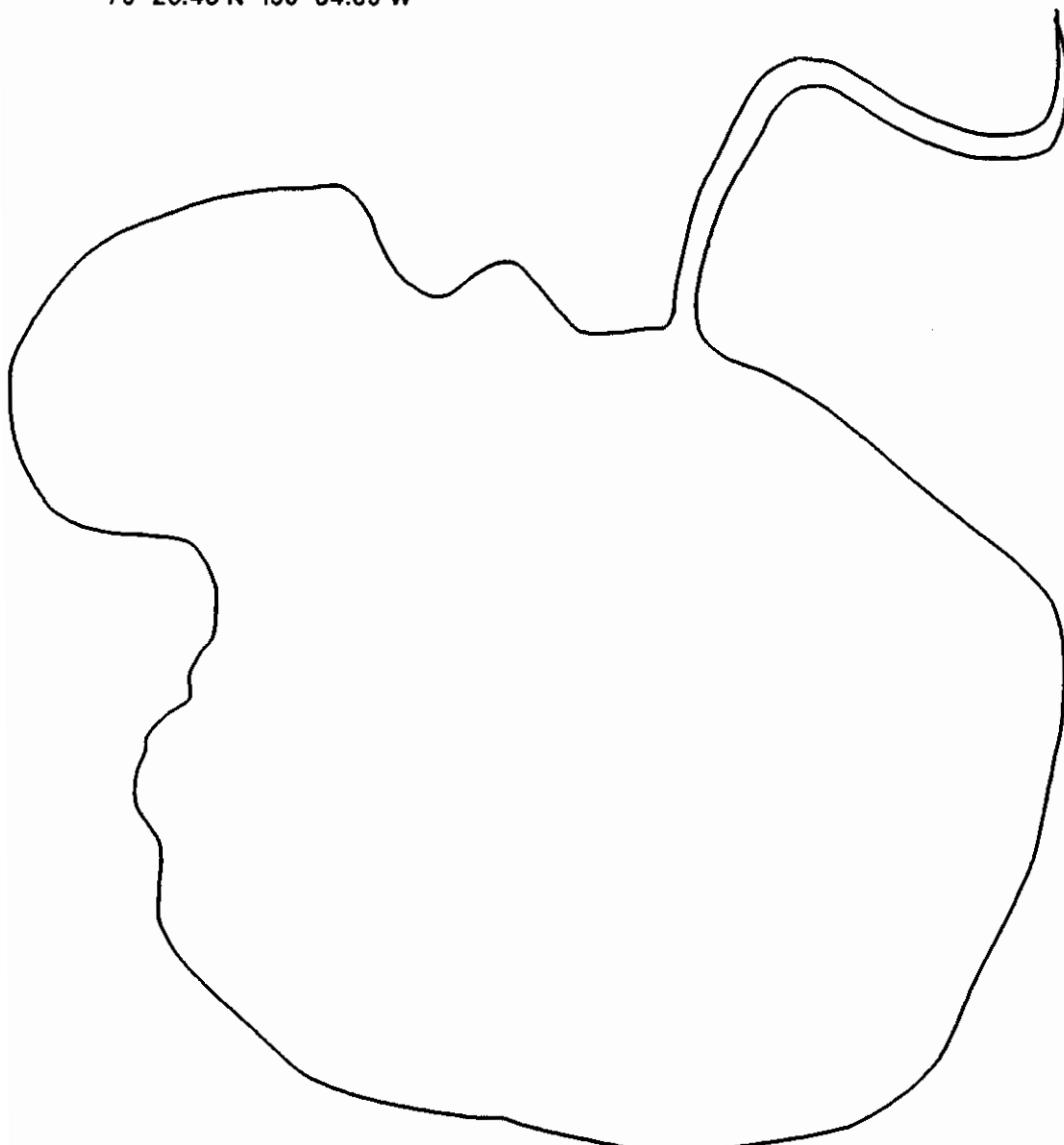
Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|----------|-----------|-------------------|--------------|---------------|---------------------|
| Gill Net | Oct 30 92 | 18.5 | Least cisco | 16 | 249-303 |
| | | | Arctic cisco | 1 | 380 |



N13.3
(B8542)

70° 26.48'N 150° 34.39'W



0 300 600 900 1200 1500 ft

Lake N13.3

Other Names: B8542; L9104; M9205
Location: 70°26'N 150°37'W
USGS Quad Sheet: Harrison Bay B-1: T13N R6E, Sect 34
Habitat: Perched Lake (Frequent Flooding)
Area: 82 acres
Maximum Depth: 28 feet
Active Outlet: No
Spec. Conductance: 238 $\mu\text{S}/\text{cm}$ (1985)
pH: 7.5 (1985)
Calculated Volume: 247.1 million gallons
Permittable Volume: 27.8 million gallons

Water Quality:

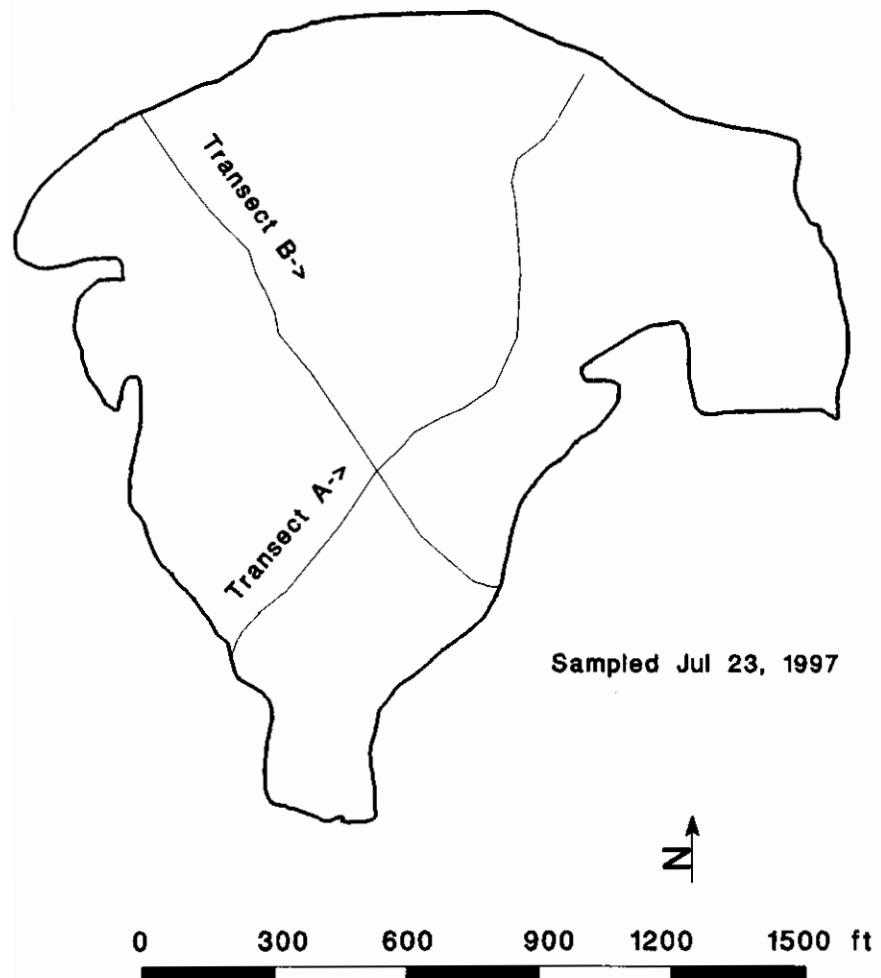
| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total | Total | Source |
|--------------------|-------------------|------------------|---------------------|-------------------|--|-------------------------------|---------------------|
| | | | | | Hardness [CaCO ₃] (mg/l) | Dissolved Solids (mg/l) | |
| 1985 | | | | | 51 | | Bendock & Burr 1986 |
| 1991 | 60 | 330.0 | 7.6 | 13 | 64 | 180 | J. Lobdell |

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|----------|-----------------|-------------------|--|------------------|---------------------|
| Gill Net | Jul 16-19, 1985 | ~24 | Broad whitefish Least cisco Arctic cisco | ? | ? |
| Gill Net | Oct 30 92 | 22.0 | Least cisco | 2 | 280,290 |

Source of 1985 data: Bendock & Burr 1986

O4.1
(M9708)
70°25.20'N 151°01.15'W



Lake O4.1

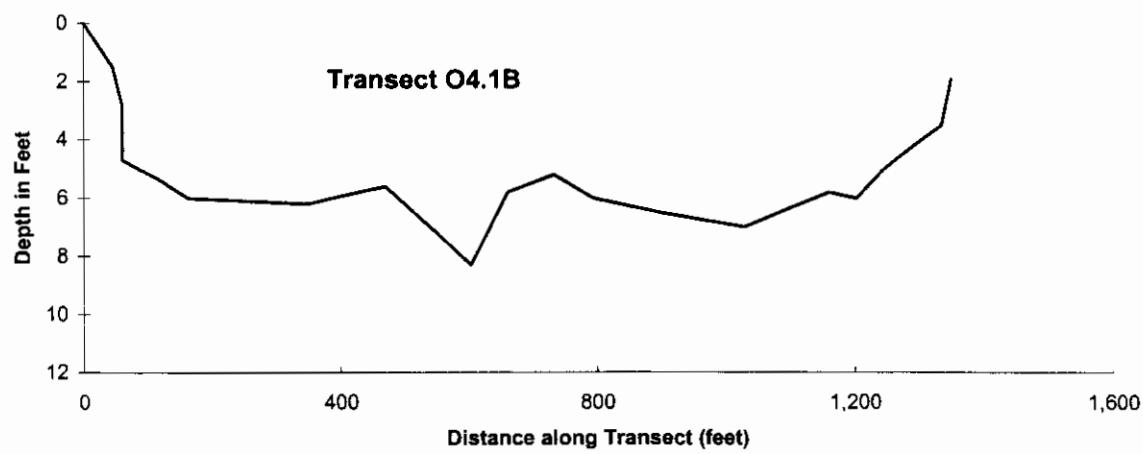
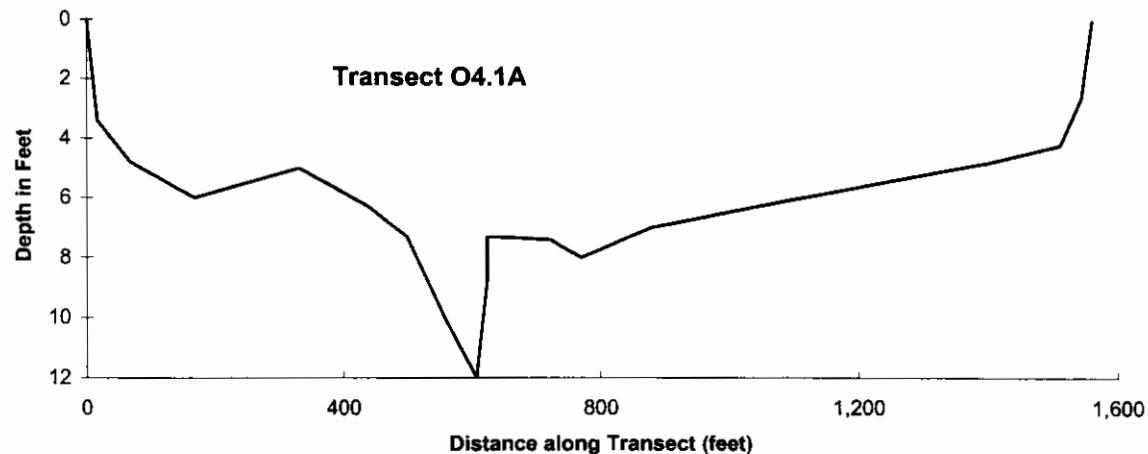
Other Names: M9708
Location: 70°25.20'N 151° 1.15'W
USGS Quad Sheet: Harrison Bay B-2: T12N R4E, Sect 1
Habitat: Perched Lake (Infrequent Flooding)
Area: 42 acres
Maximum Depth: 12.0 feet
Active Outlet: No
Spec. Conductance: 1,313 $\mu\text{S}/\text{cm}$
Calculated Volume: 54.4 million gallons
Permittable Volume: No fish concern

Water Quality:

| Year of Test | Chloride (mg/l) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------------|--------------------|------------------|---------------------|-------------------|---|--|------------|
| 1997 | 248 | 419.0 | 29.9 | 27 | 191 | 643 | J. Lobdell |

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|-------------|-----------|-------------------|---------|------------------|
| Gillnet | Jul 23 97 | 11.0 | None | 0 |
| Minnow Trap | Jul 23 97 | 9.5 | None | 0 |



O5.1
(M9707)
70°25.10'N 150°58.80'W

Transect A->

Sampled Jul 22, 1997

Transect B->



0 300 600 900 1200 1500 ft

Lake O5.1

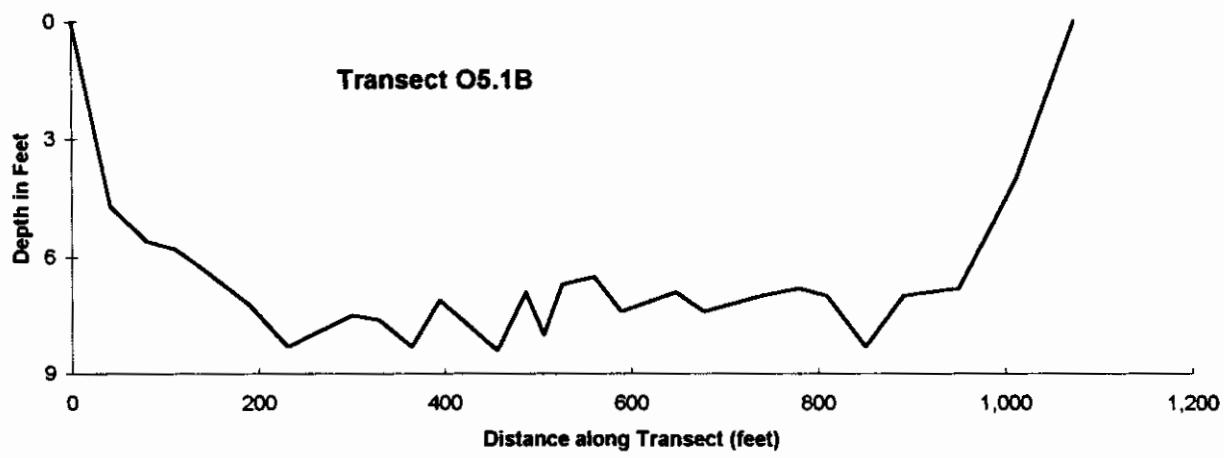
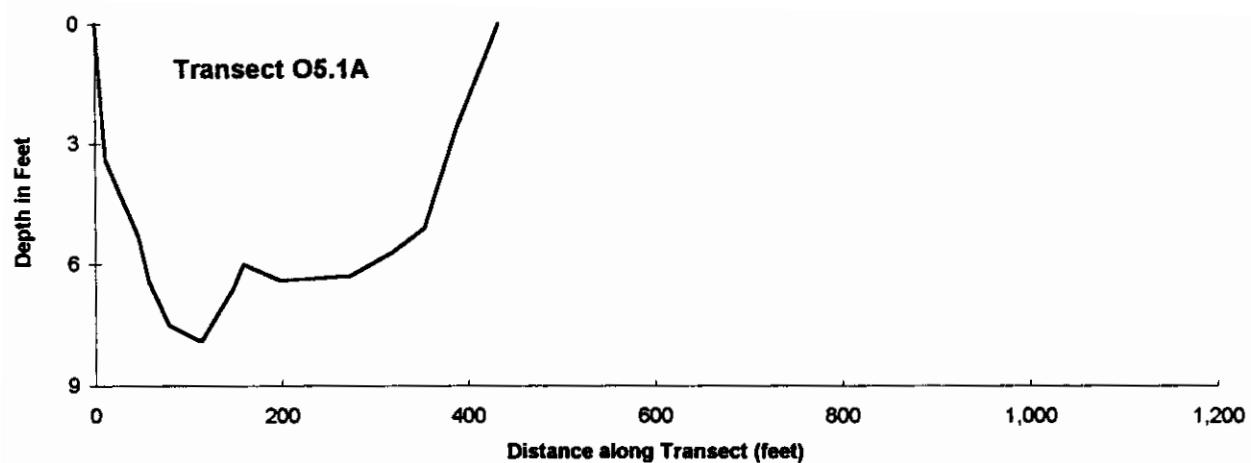
Other Names: M9707
Location: 70°25.10'N 150°58.80'W
USGS Quad Sheet: Harrison Bay B-2: T12N R5E, Sect 6
Habitat: Perched Lake (Frequent Flooding)
Area: 17 acres
Maximum Depth: 8.4 feet
Active Outlet: No
Spec. Conductance: 7,209 $\mu\text{S}/\text{cm}$
Calculated Volume: 15.0 million gallons
Permittable Volume: No fish concern

Water Quality:

| Year of Test | Chloride (mg/l) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------------|--------------------|------------------|---------------------|-------------------|---|--|------------|
| 1997 | 2390 | 3230.0 | 258 | 166 | 1480 | 4254 | J. Lobdell |

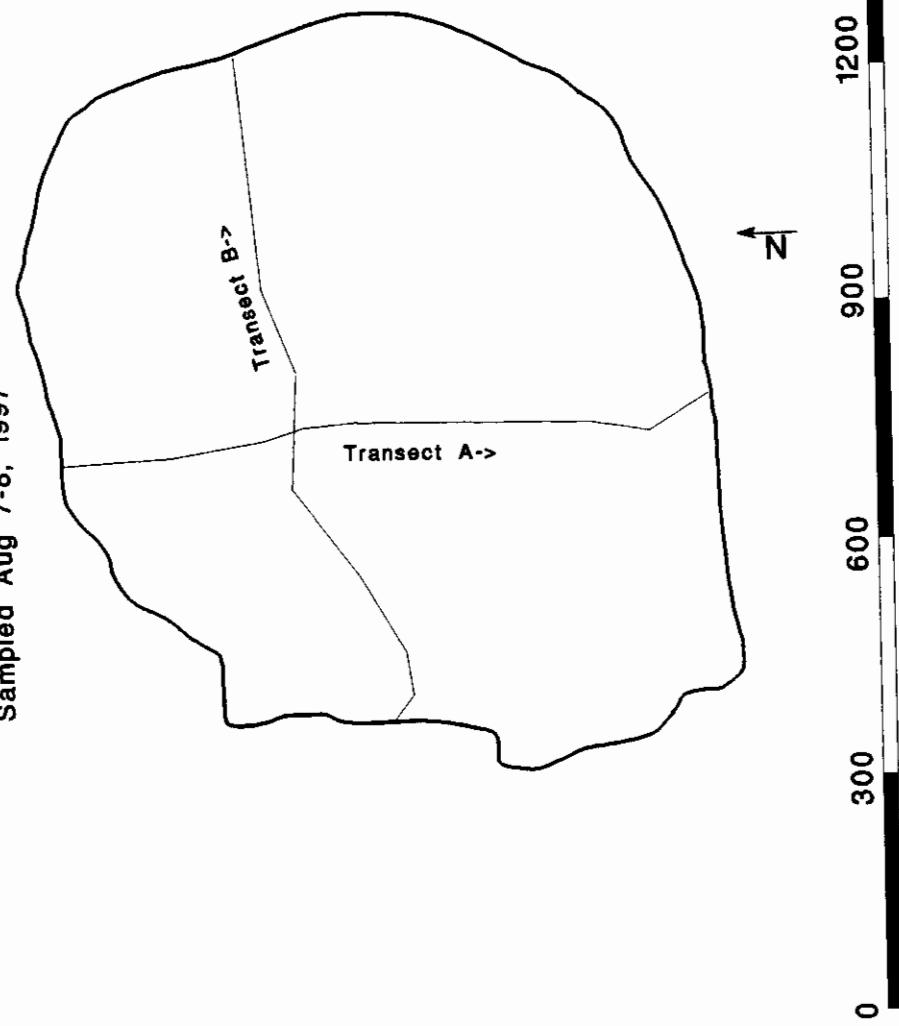
Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|-------------|-----------|-------------------|---------|------------------|
| Gillnet | Jul 22 97 | 10.5 | None | 0 |
| Minnow Trap | Jul 22 97 | 10.1 | None | 0 |



O6.1
(M9713)
70°25.82'N 150°55.63'W

Sampled Aug 7-8, 1997



Lake O6.1

Other Names: M9713
Location: 70°25.42'N 150°55.63'W
USGS Quad Sheet: Harrison Bay B-2; T12N R5E, Sect 5
Habitat: Perched Lake (Infrequent Flooding)
Area: 14 acres
Maximum Depth: 11.0 feet
Active Outlet: No
Spec. Conductance: 3,302 $\mu\text{S}/\text{cm}$
pH: 7.9
Calculated Volume: 17.1 million gallons
Permittable Volume: No fish concern

Water Quality:

| Year of Test | Chloride (mg/l) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) |
|--------------------|--------------------|------------------|---------------------|-------------------|---|--|
| 1998 | 1090 | 556.0 | 64.6 | 49 | 388 | 1920 |

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|----------|----------|-------------------|---------|------------------|
| Gill Net | Aug 7 97 | 5.0 | None | 0 |
| | Aug 8 97 | 6.7 | None | 0 |

O6.2
(M9712)
70°25.82'N 150°55.30'W

Sampled Aug 7-8, 1998

Transect A->

Transect B->

Transect C->



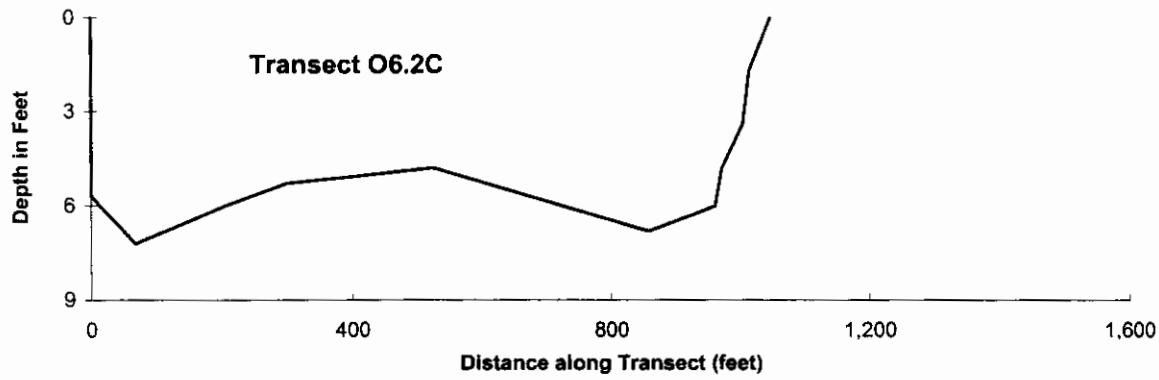
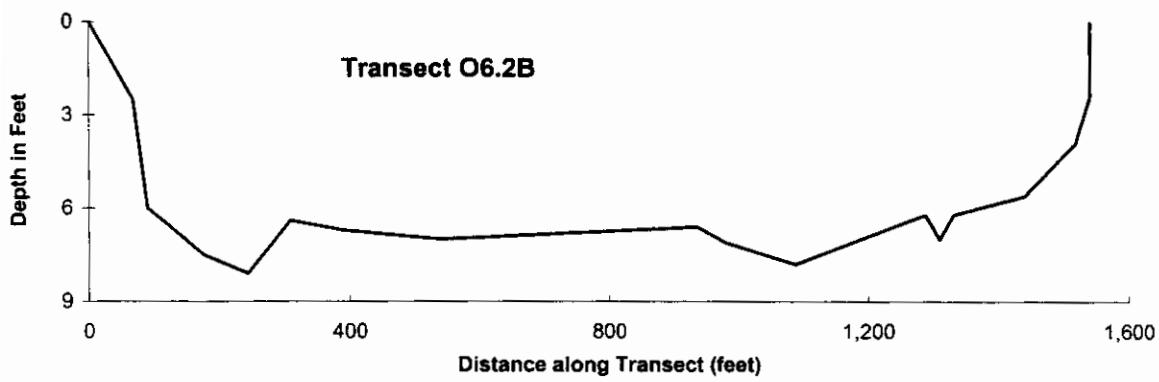
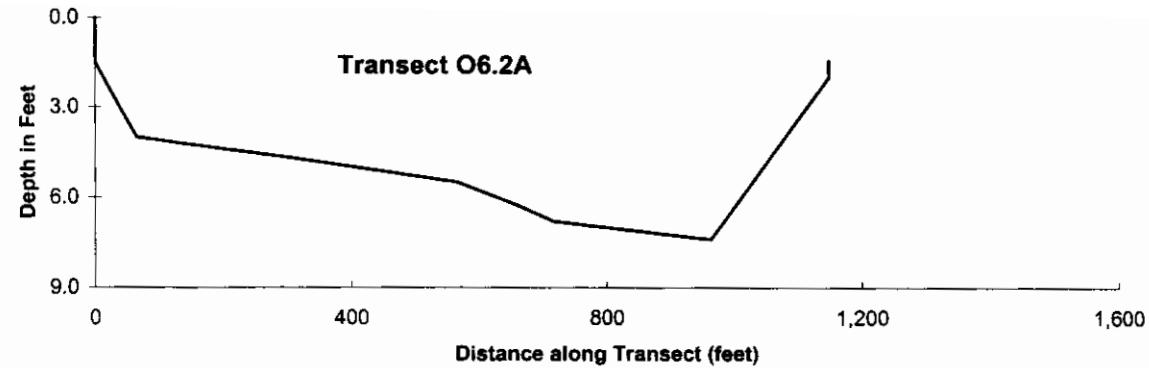
0 300 600 900 1200 1500 ft

Lake O6.2

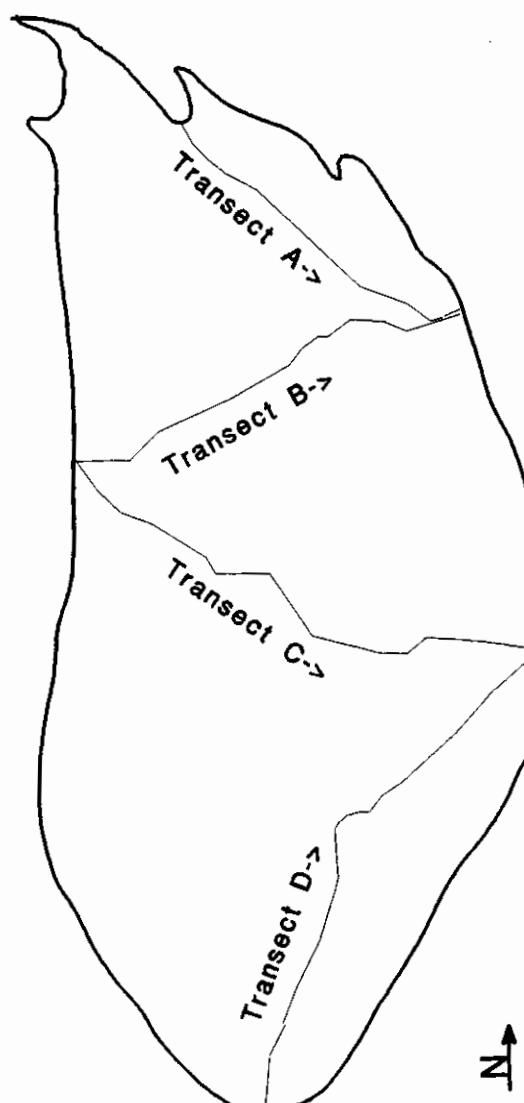
Other Names: M9712
Location: 70°25.82'N 150°55.30'W
USGS Quad Sheet: Harrison Bay B-2: T12N R5E, Sect 5
Habitat: Perched Lake (Infrequent Flooding)
Area: 53 acres
Maximum Depth: 8.1 feet
Active Outlet: No
Spec. Conductance: 3,767 µS/cm
pH: 7.9
Calculated Volume: 45.7 million gallons
Permittable Volume: No fish concern

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|----------|----------|-------------------|---------|---------------|
| Gill Net | Aug 7 97 | 6.0 | None | 0 |
| | Aug 8 97 | 5.8 | None | 0 |



O7.1
(M9313)
70°25.41'N 150°53.69'W



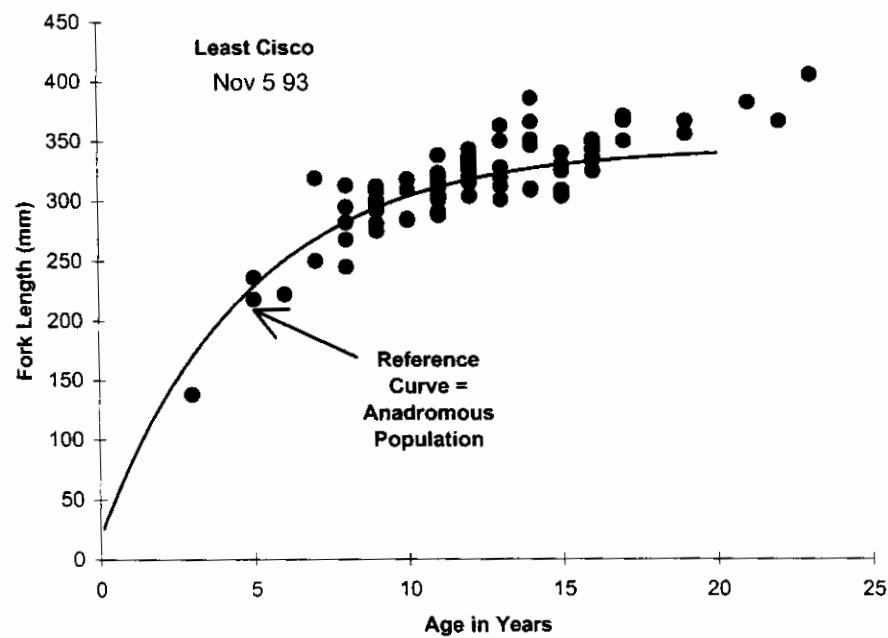
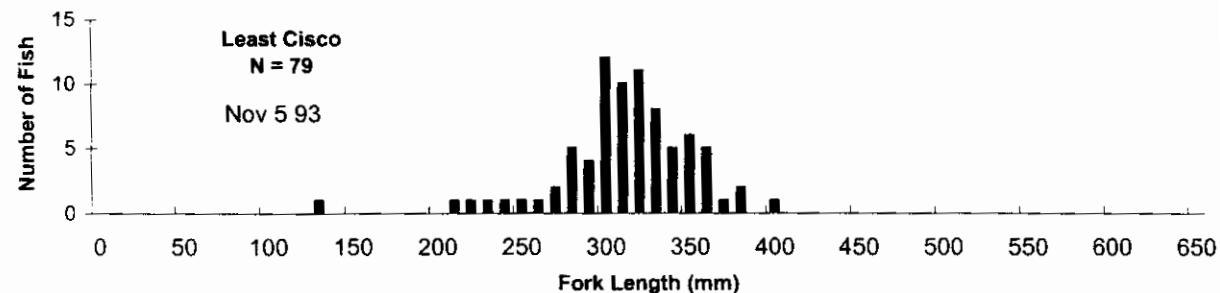
0 300 600 900 1200 1500 ft

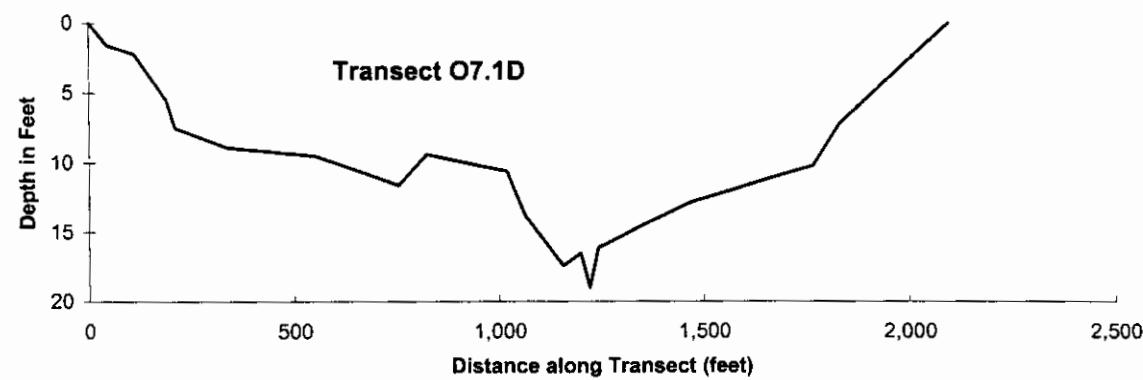
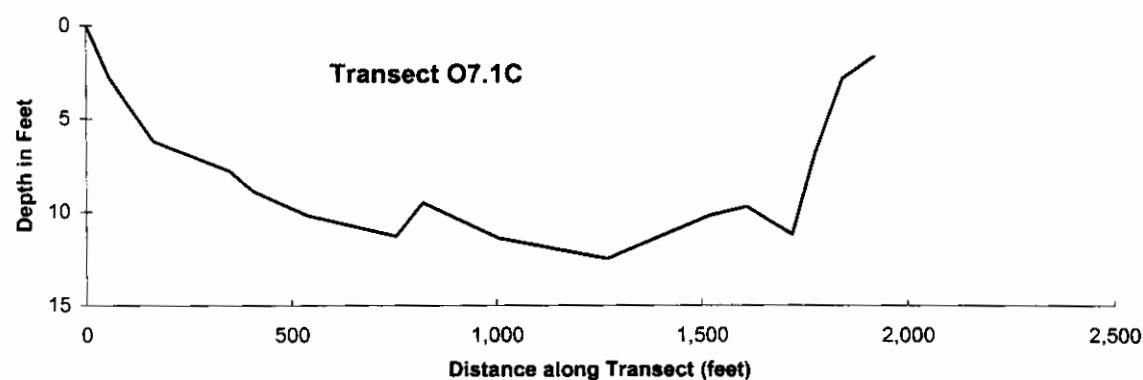
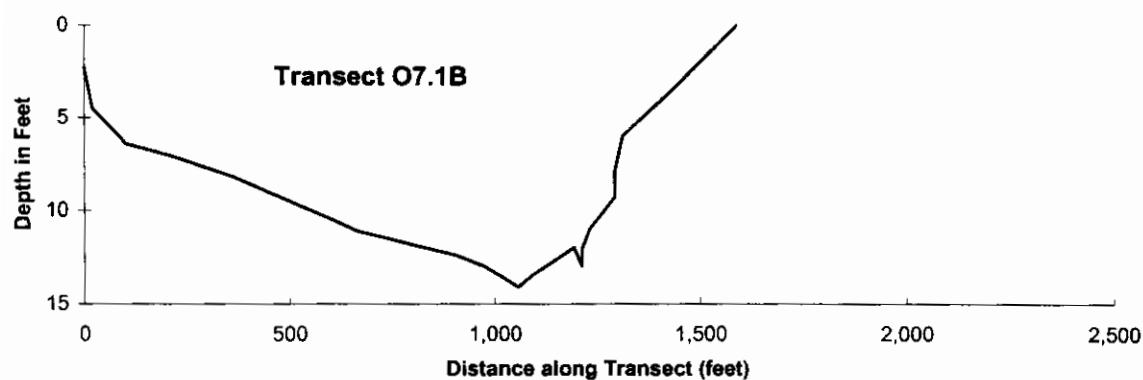
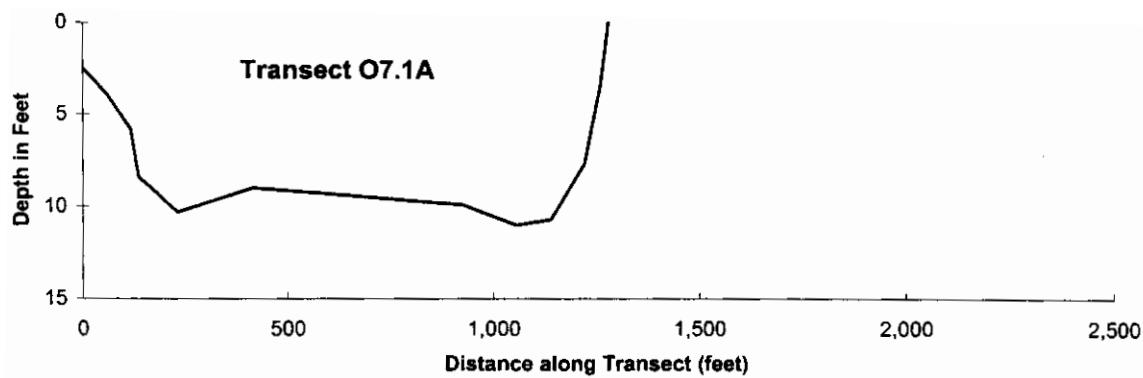
Lake O7.1

Other Names: M9313
Location: 70°25.41'N 150°53.69'W
USGS Quad Sheet: Harrison Bay B-2: T12N R5E, Sect 4
Habitat: Perched Lake (Infrequent Flooding)
Area: 128 acres
Maximum Depth: 19.0 feet
Active Outlet: No
Spec. Conductance: 839 $\mu\text{S}/\text{cm}$
pH: 8.3
Calculated Volume: 262.0 million gallons
Permittable Volume: 24.8 million gallons

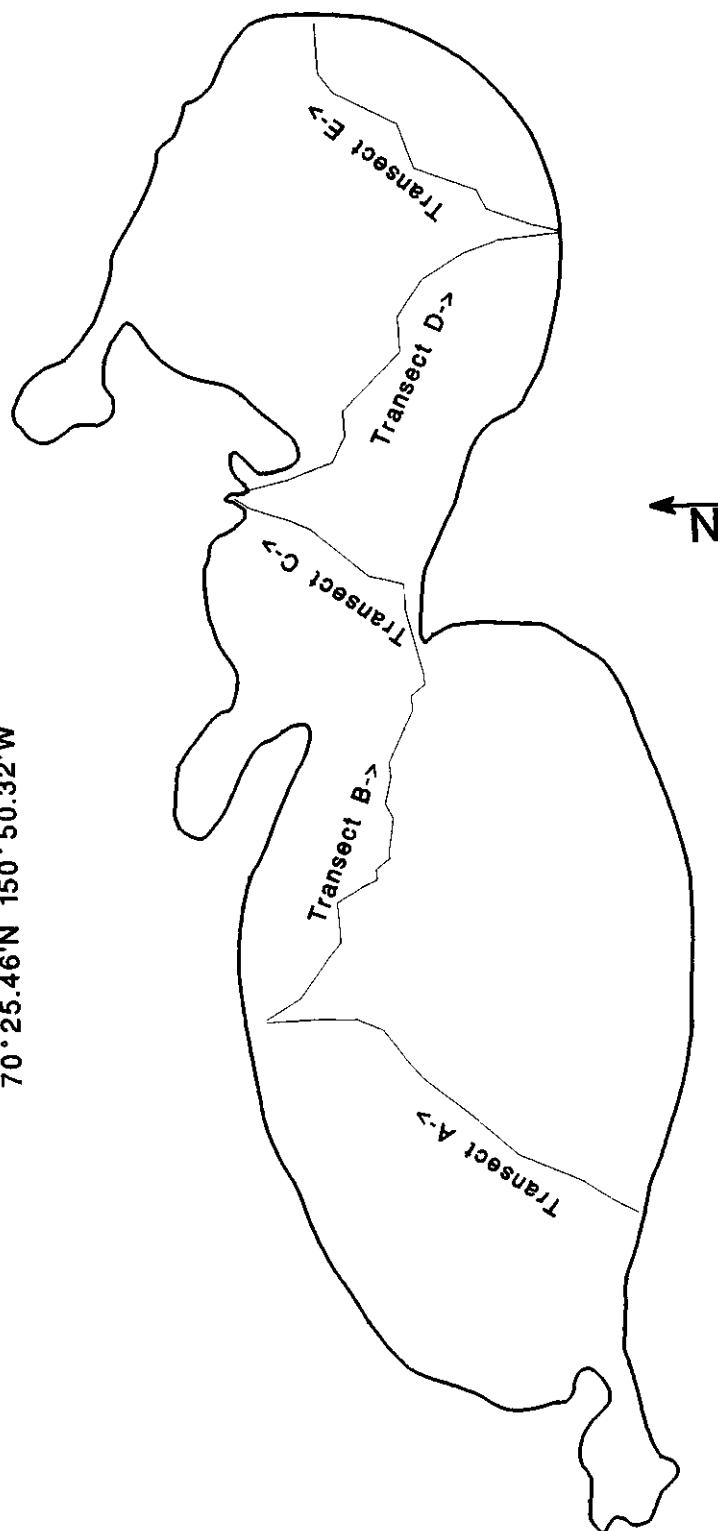
Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|-------------|----------|-------------------|-------------|---------------|---------------------|
| Gill Net | Nov 5 93 | 20.7 | Least cisco | 79 | 138-406 |
| Minnow Trap | Nov 5 93 | 20.7 | None | 0 | |





O8.1
(L9107)
70°25.46'N 150°50.32'W



Lake O8.1

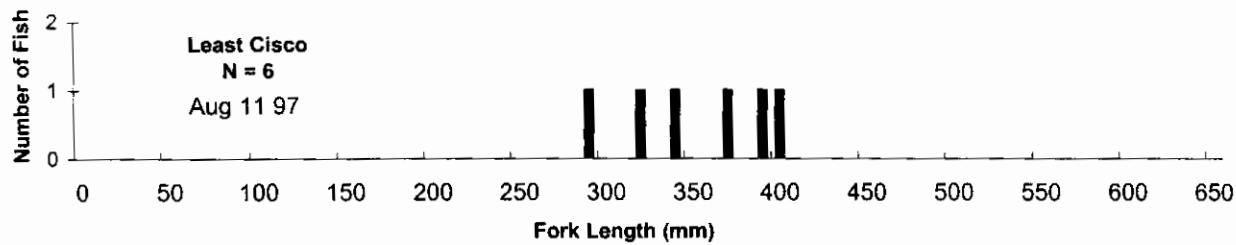
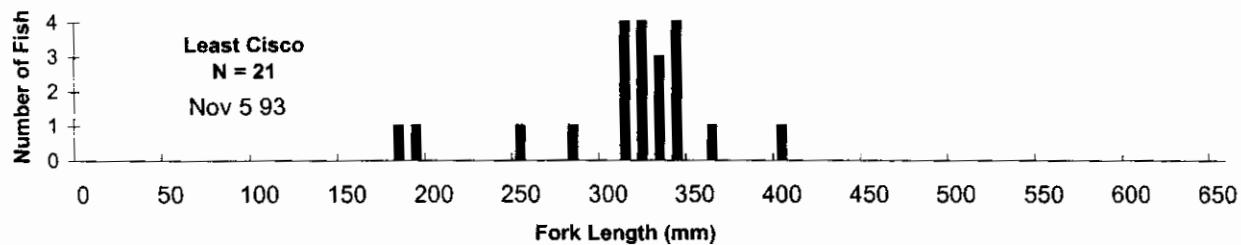
Other Names: L9107; M9312
Location: 70°25.46'N 150°50.32'W
USGS Quad Sheet: Harrison Bay B-2: T12N R5E, Sect 3
Habitat: Perched Lake (Infrequent Flooding)
Area: 208 acres
Maximum Depth: 28.1 feet
Active Outlet: No
Spec. Conductance: 1,405 $\mu\text{S}/\text{cm}$
pH: 8.1
Calculated Volume: 629.0 million gallons
Permittable Volume: 70.8 million gallons

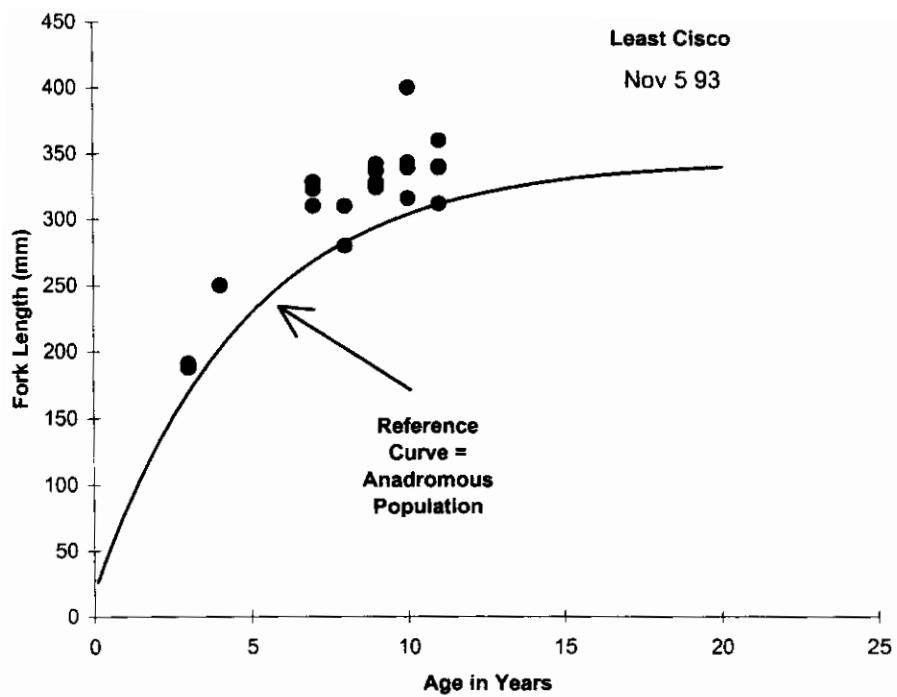
Water Quality:

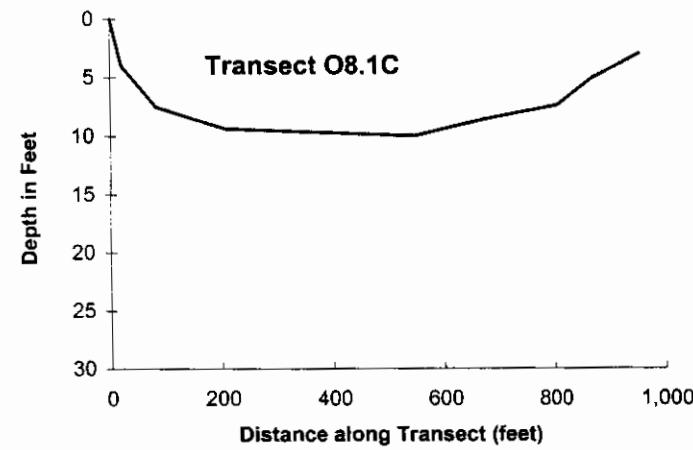
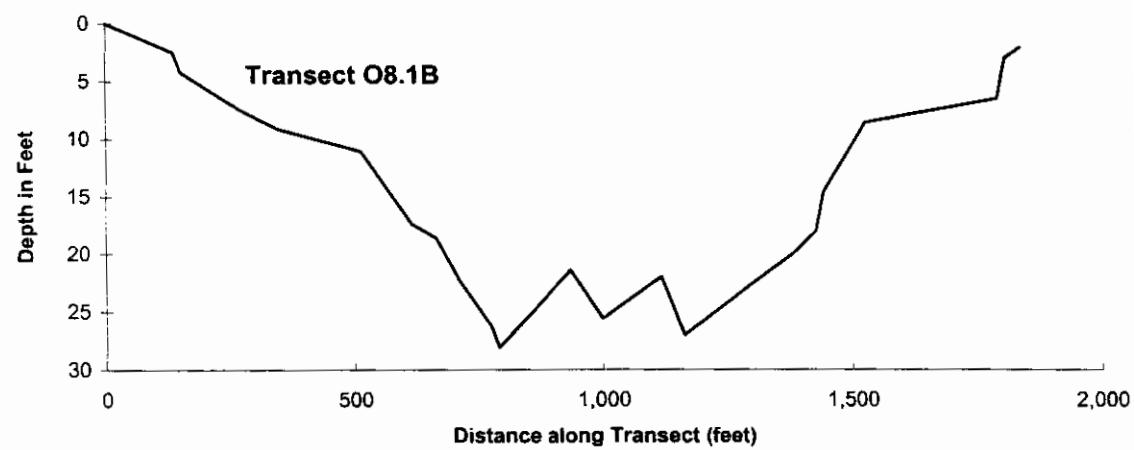
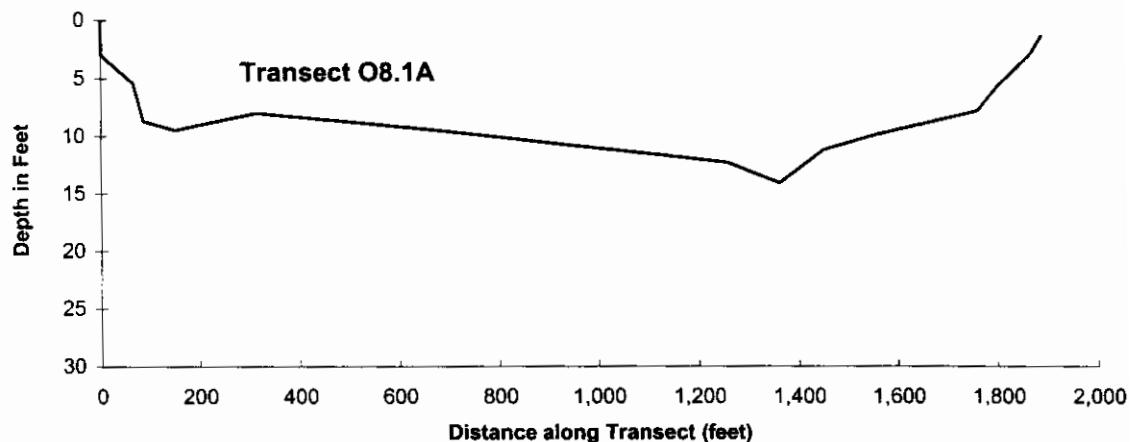
| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------|----------------|---------------|------------------|----------------|--|-------------------------------|------------|
| 1991 | 420 | 250.0 | 30 | 20 | 174 | 840 | J. Lobdell |

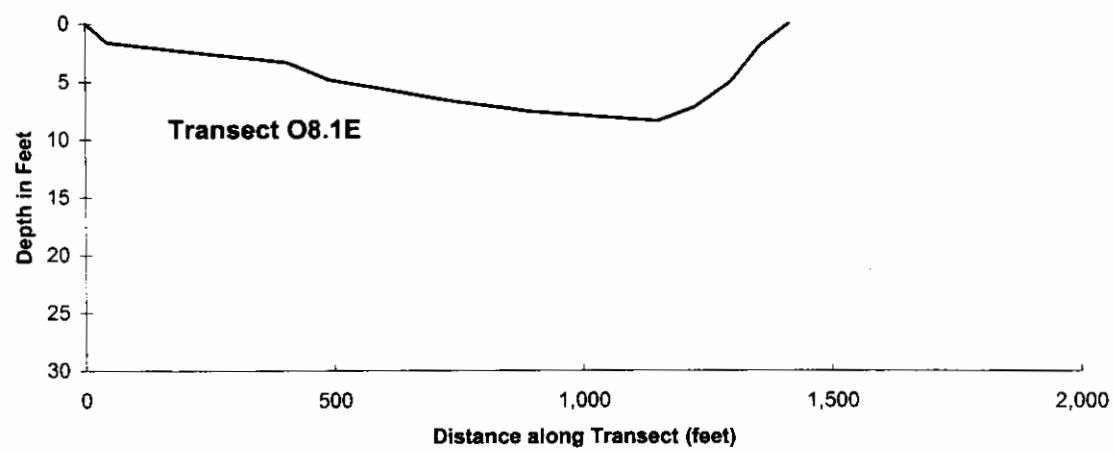
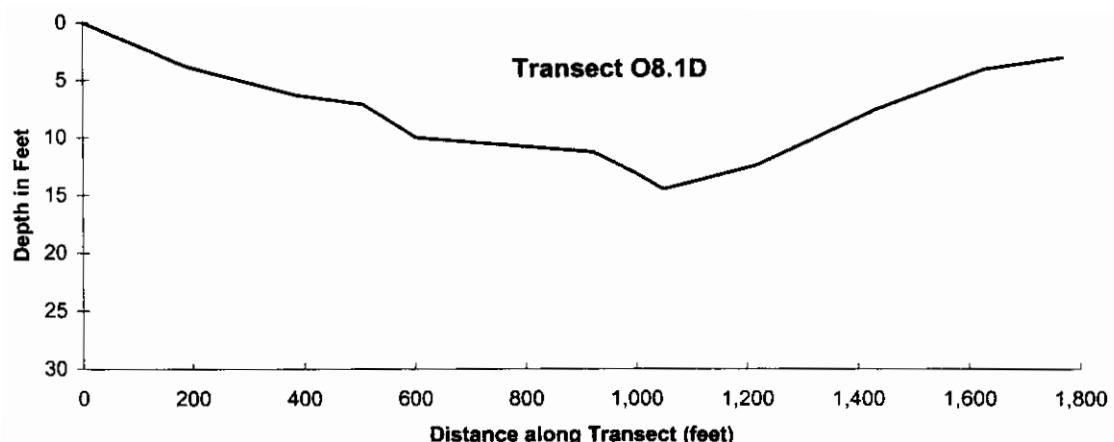
Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|-------------|-----------|----------------|-------------|---------------|------------------|
| Gill Net | Nov 5 93 | 22.0 | Least cisco | 21 | 188-400 |
| Minnow Trap | Nov 5 93 | 22.0 | None | 0 | |
| Gill Net | Aug 11 97 | 2.9 | Least cisco | 6 | 298-400 |
| Minnow Trap | Aug 11 97 | 12.0 | None | 0 | |

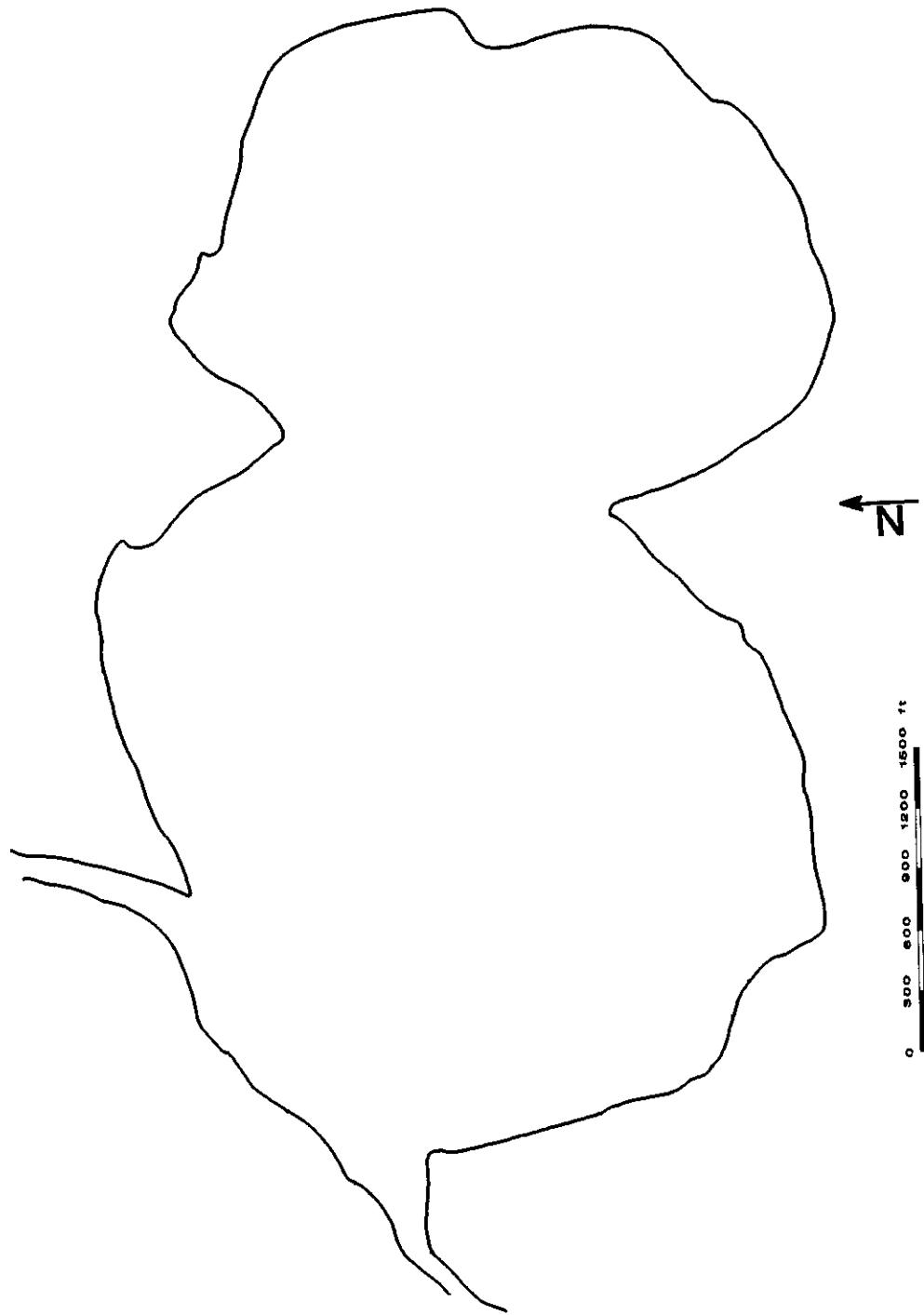








O9.1
(B8538)
70° 25.10' N 150° 47.23' W



Lake O9.1

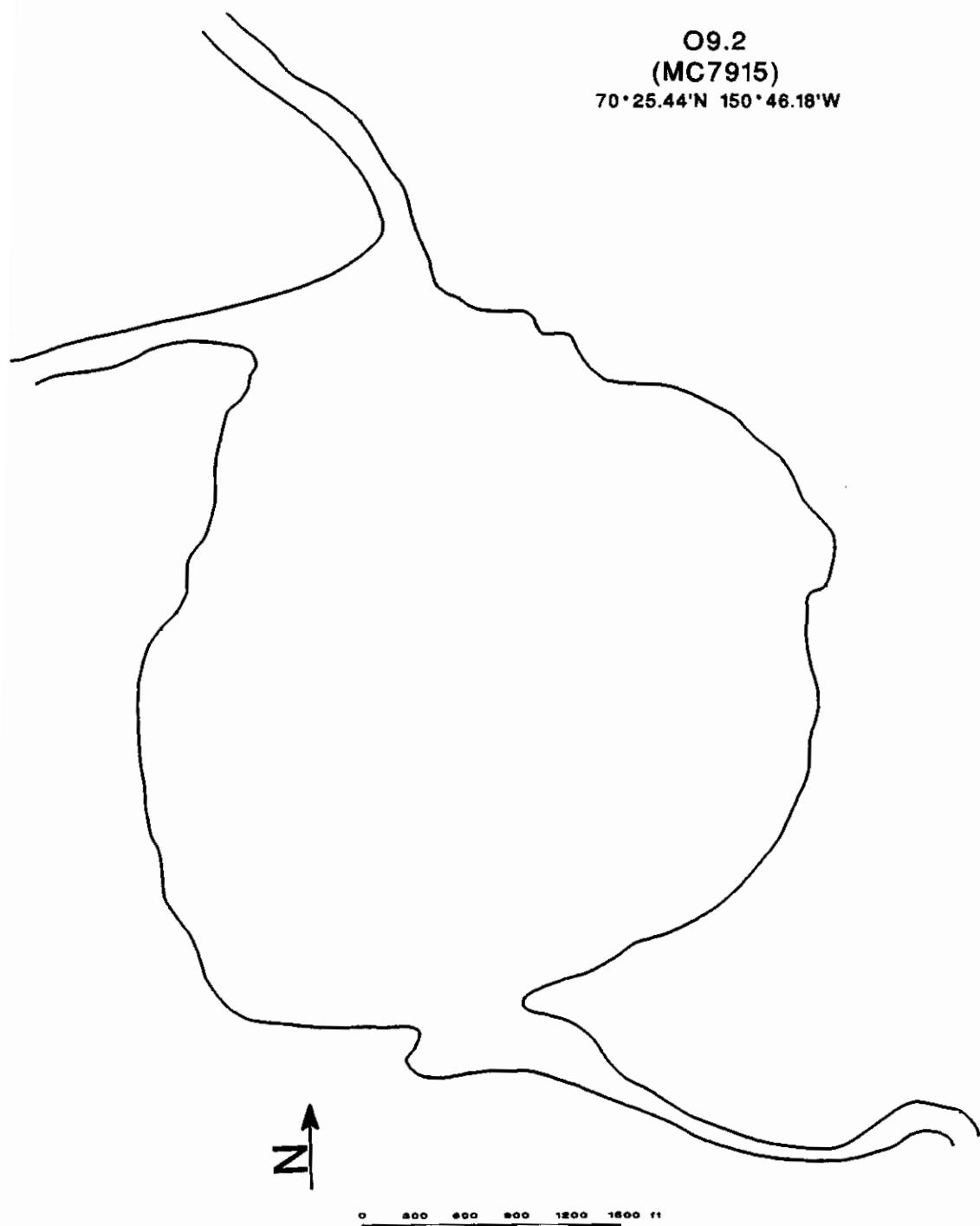
Other Names: B8538; L9105
Location: 70°25.10'N 150°47.23'W
USGS Quad Sheet: Harrison Bay B-2: T12N R5E, Sect 2
Habitat: Tapped Lake
Area: 345 acres
Maximum Depth: 8 feet
Active Outlet: Yes
Spec. Conductance: 9,389 $\mu\text{S}/\text{cm}$ (1985)
pH: 9.0 (1985)
Calculated Volume: 296.6 million gallons
Permittable Volume: 5.6 million gallons

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|----------|-----------------|-------------------|--------------------|------------------|
| Gill Net | Jul 16-19, 1985 | -24 | Broad whitefish | ? |
| | | | Humpback whitefish | ? |
| | | | Least cisco | ? |
| | | | Arctic cisco | ? |

Source of 1985 data: Bendock & Burr 1986

O9.2
(MC7915)
70°25.44'N 150°46.18'W



Lake O9.2

Other Names: MC7915; L9206
Location: 70°25.44'N 150°46.18'W
USGS Quad Sheet: Harrison Bay B-2: T12N R5E, Sect 1
Habitat: Tapped Lake
Area: 320 acres
Maximum Depth: 6.5 feet
Active Outlet: Yes
Calculated Volume: 223.7 million gallons
Permittable Volume 0.0 million gallons

Water Quality:

| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------------|-------------------|------------------|---------------------|-------------------|---|--|------------|
| 1992 | 1000 | 570.0 | 76 | 47 | 430 | 2400 | J. Lobdell |

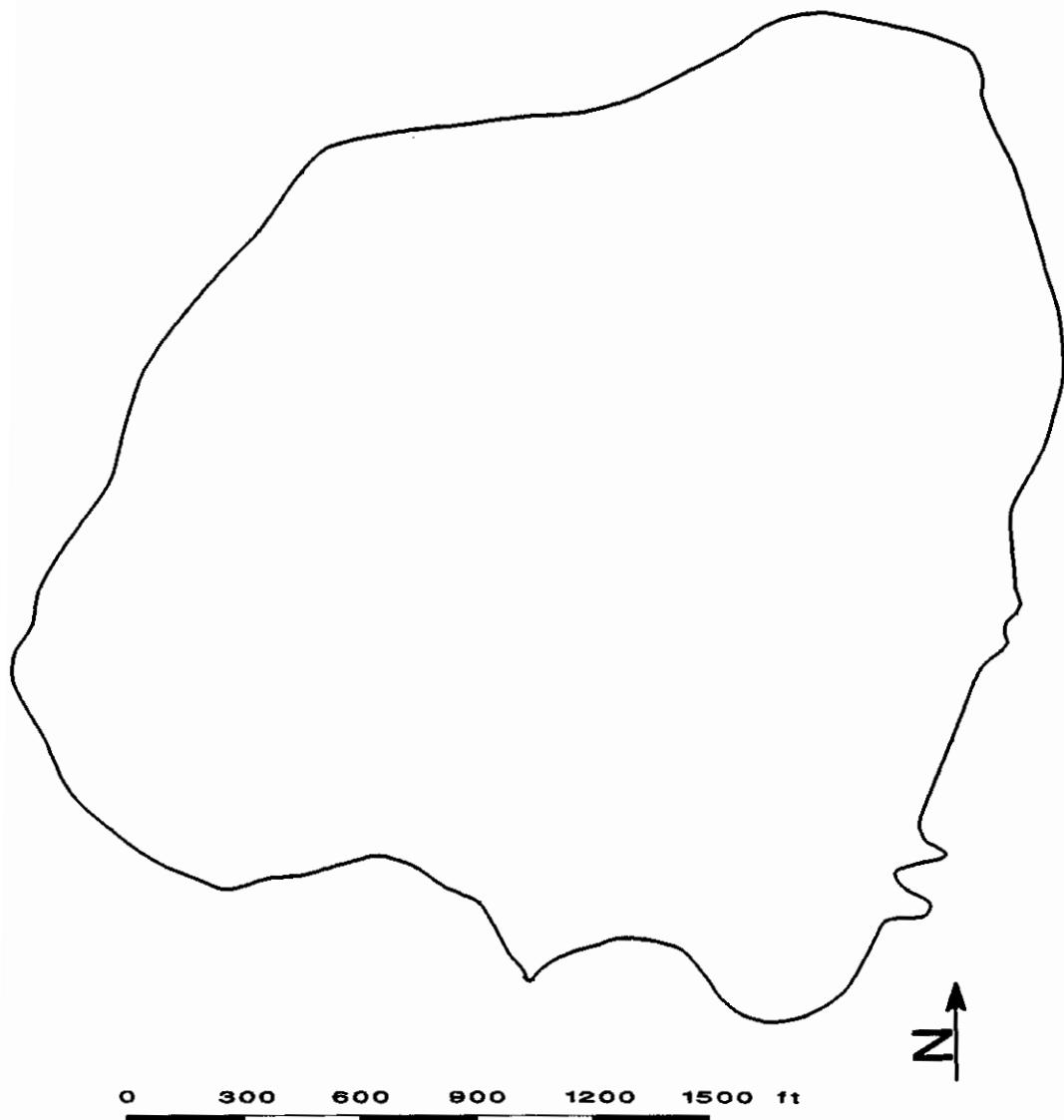
Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|----------|----------|-------------------|-------------------|------------------|---------------------|
| Gill Net | Sep 8 79 | 23.2 | Broad whitefish | 15 | 202-442 |
| | | | Least cisco | 19 | 207-404 |
| | | | Arctic cisco | 2 | 269-307 |
| | | | Dolly Varden char | 1 | 287 |
| | | | Rainbow smelt | 4 | 223-315 |
| | | | Fourhorn sculpin | 82 | |

Source of 1979 data: McElderry & Craig 1981

O10.1
(L9109)

70°24.95'N 150°44.16'W



Lake O10.1

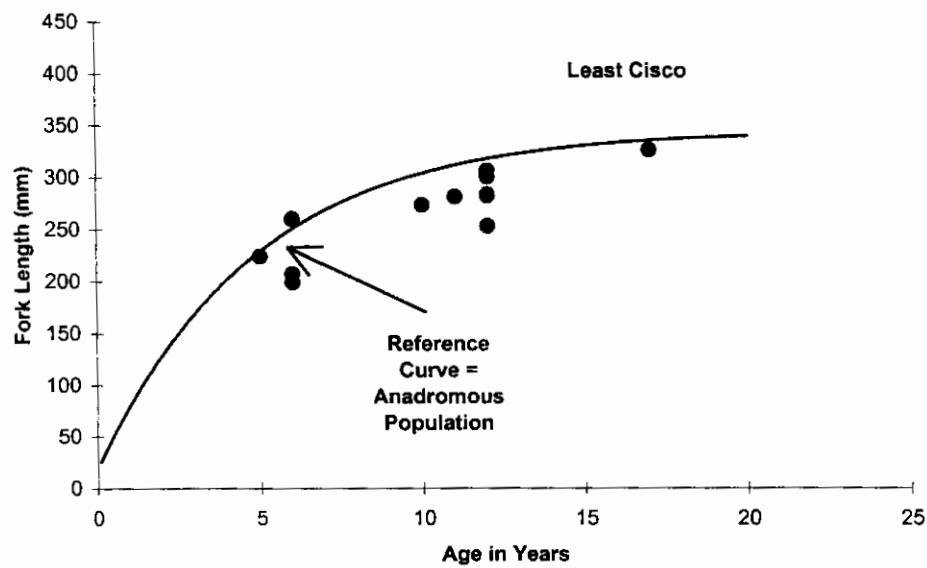
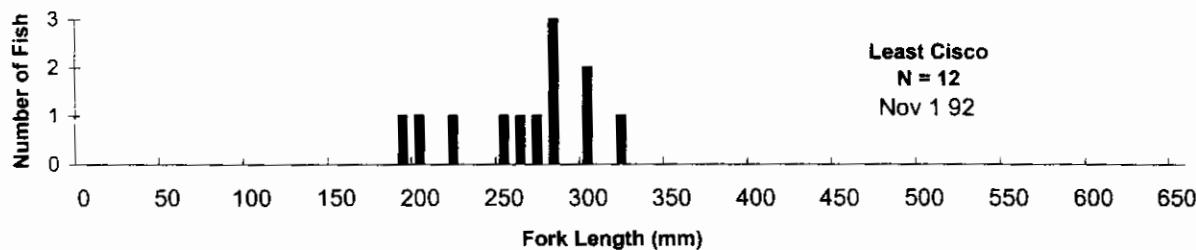
Other Names: L9109; M9209
Location: 70°24.95'N 150°44.16'W
USGS Quad Sheet: Harrison Bay B-2: T12N R5E, Sect 1
Habitat: Perched Lake (Infrequent Flooding)
Area: 114 acres
Maximum Depth: 18 feet
Active Outlet: No
Calculated Volume: 220.2 million gallons
Permittable Volume: 20.2 million gallons

Water Quality:

| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------------|-------------------|------------------|---------------------|-------------------|---|--|------------|
| 1991 | 20 | 12.0 | 2.8 | 309 | 21 | 116 | J. Lobdell |

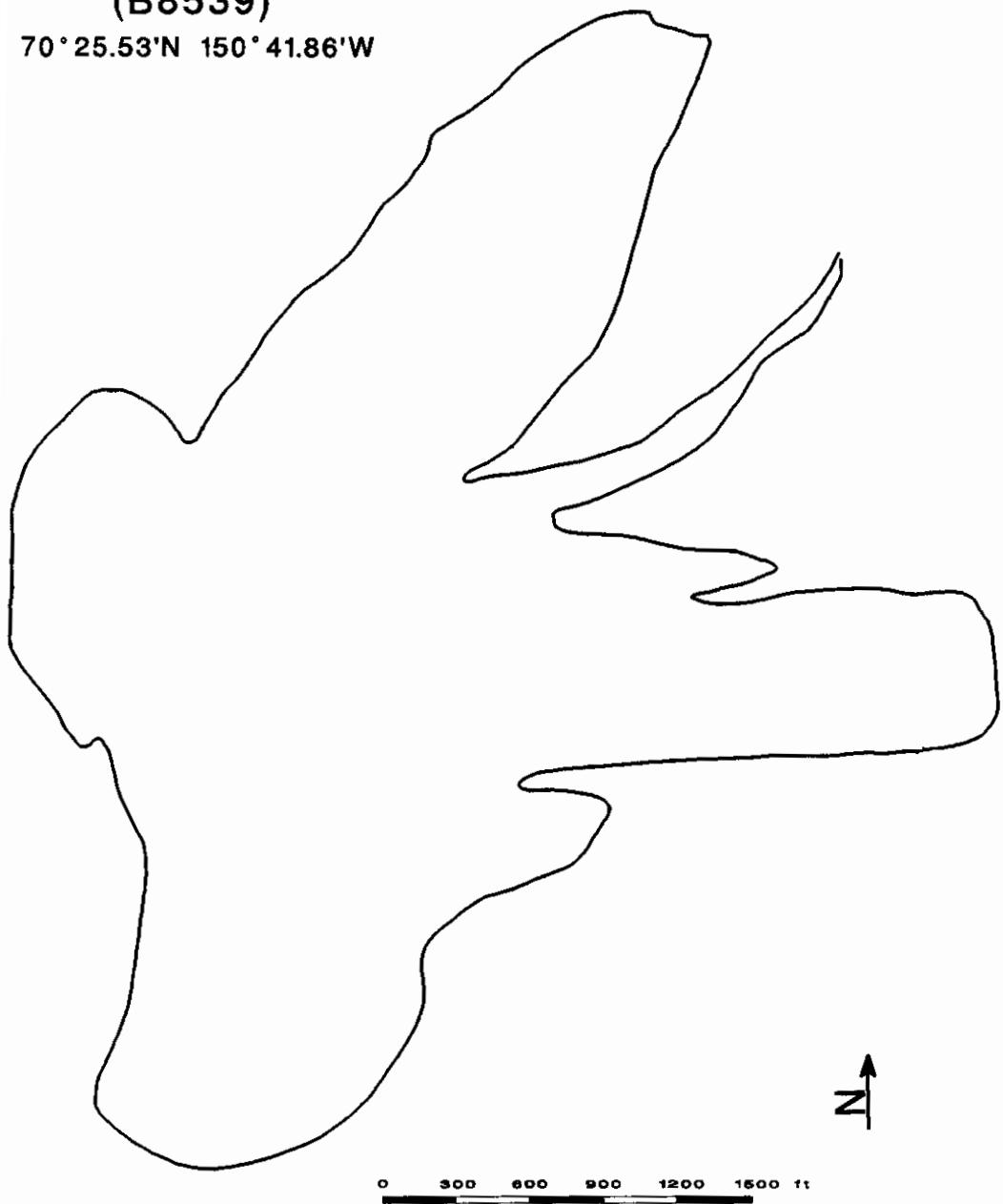
Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|----------|----------|-------------------|-----------------|------------------|---------------------|
| Gill Net | Nov 1 92 | 20.5 | Broad whitefish | 2 | 415, 497 |
| | | | Least cisco | 12 | 199-326 |



O11.1
(B8539)

70° 25.53'N 150° 41.86'W



Lake O11.1

Other Names: B8539; M9106
Location: 70°25.53'N 150°41.86'W
USGS Quad Sheet: Harrison Bay B-2: T13N R6E, Sect 31
Habitat: Tapped Lake
Area: 194 acres
Maximum Depth: 13 feet
Active Outlet: Yes
Spec. Conductance: 953 $\mu\text{S}/\text{cm}$ (1985)
pH: 7.5 (1985)
Calculated Volume: 270.7 million gallons
Permittable Volume: 18.7 million gallons

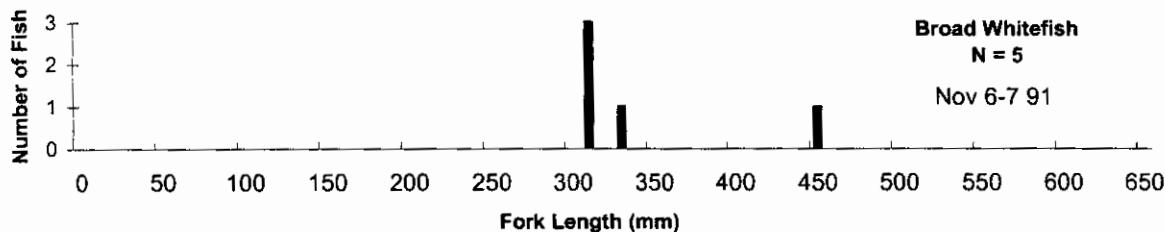
Water Quality:

| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total | Total | Source |
|--------------------|-------------------|------------------|---------------------|-------------------|--|-------------------------------|---------------------|
| | | | | | Hardness [CaCO ₃] (mg/l) | Dissolved Solids (mg/l) | |
| 1985 | | | | | 137 | | Bendock & Burr 1986 |

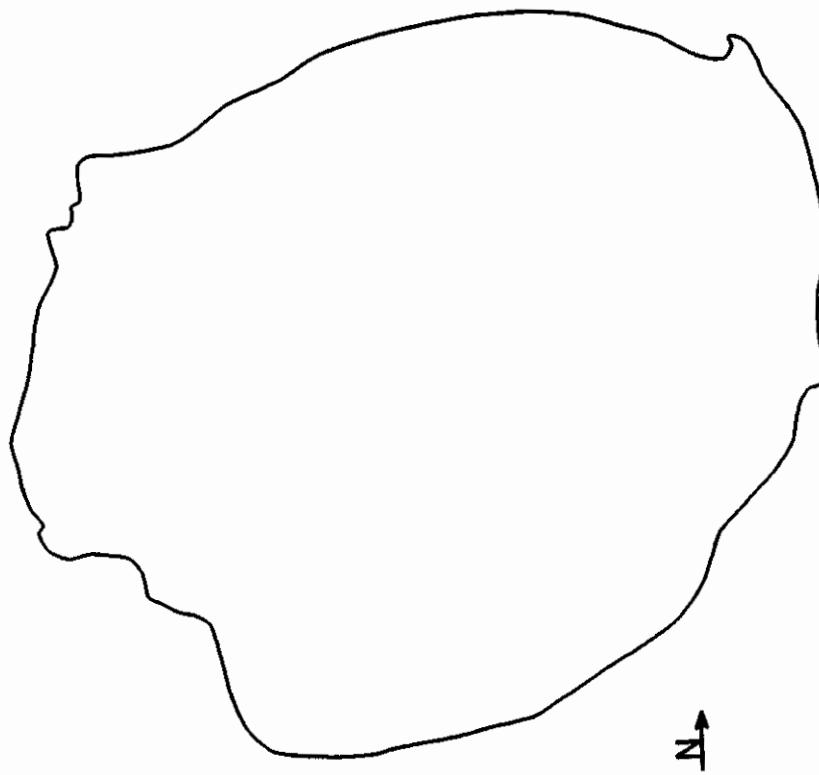
Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|----------|-----------------|-------------------|--------------------------------|------------------|---------------------|
| Gill Net | Jul 16-19, 1985 | -24 | Broad whitefish Least cisco | ? | ? |
| Gill Net | Nov 6 91 | 22.0 | Broad whitefish Least cisco | 4 5 | 312-453 106-327 |
| Gill Net | Nov 7 91 | 24.0 | Broad whitefish Least cisco | 1 2 | 310 328, 328 |

Source of 1985 data: Bendock & Burr 1986



O13.1
(M9302)
70°25.87'N 150°35.58'W



0 300 600 900 1200 1500 ft

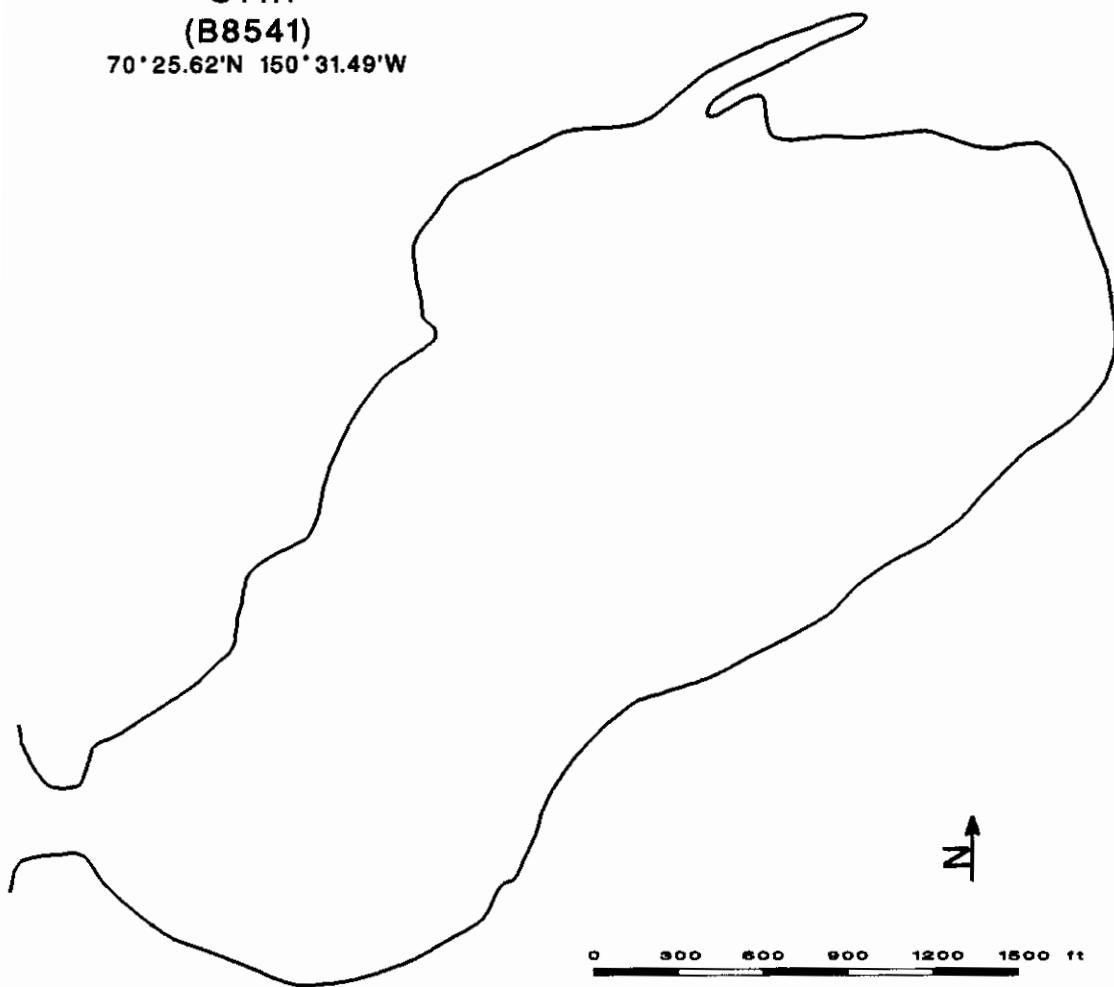
Lake O13.1

Other Names: M9302
Location: 70°25.87'N 150°35.58'W
USGS Quad Sheet: Harrison Bay B-1: T13N R6E, Sect 33
Habitat: Perched Lake (Frequent Flooding)
Area: 59 acres
Maximum Depth: 10 feet
Active Outlet: No
Calculated Volume: 63.6 million gallons
Permittable Volume: 2.9 million gallons

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|----------|-----------|-------------------|------------------|------------------|
| Gill Net | Oct 28 93 | 19.2 | Alaska blackfish | 1 |

O14.1
(B8541)
70° 25.62'N 150° 31.49'W



Lake O14.1

Other Names: B8541; M9201
Location: 70°25'N 150°32'W
USGS Quad Sheet: Harrison Bay B-1: T12N R6E, Sect 2
Habitat: Tapped Lake
Area: 141 acres
Maximum Depth: 10 feet
Active Outlet: Yes
Spec. Conductance: 673 $\mu\text{S}/\text{cm}$ (1985)
pH: 8.5 (1985)
Calculated Volume: 151.9 million gallons
Permittable Volume: 6.8 million gallons

Water Quality:

| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------------|-------------------|------------------|---------------------|-------------------|---|--|---------------------|
| 1985 | | | | | 137 | | Bendock & Burr 1986 |

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|----------|-----------------|-------------------|------------------|------------------|---------------------|
| Gill Net | Jul 16-19, 1985 | ~24 | Broad whitefish | ? | |
| | | | Least cisco | ? | |
| | | | Longnose sucker | ? | |
| | | | Fourhorn sculpin | ? | |
| Gill Net | Nov 6 92 | 23.0 | Arctic cisco | 2 | 161, 343 |

Source of 1985 data: Bendock & Burr 1986

Salinity Profile:

| Date | Depth (m) | Salinity (ppt) |
|----------|--------------|-------------------|
| Nov 6 92 | 0.5 | 2.0 |
| | 1.0 | 2.0 |
| | 1.5 | 2.2 |
| | 2.0 | 2.8 |
| | 2.5 | 3.2 |
| | 3.0 | 3.6 |

O16.1
(B8544)
70°25.87'N 150°24.25'W

N

0 300 600 900 1200 1500 ft

Lake O16.1

Other Names: B8544
Location: 70°25.87'N 150°24.25'W
USGS Quad Sheet: Harrison Bay B-1: T13N R7E, Sect 32
Habitat: Perched Lake (Infrequent Flooding)
Area: 66 acres
Maximum Depth: 16 feet
Active Outlet: No
Spec. Conductance: 490 $\mu\text{S}/\text{cm}$ (1985)
pH: 8.0 (1985)
Calculated Volume: 114.3 million gallons
Permittable Volume: 9.6 million gallons

Water Quality:

| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------------|-------------------|------------------|---------------------|-------------------|---|--|---------------------|
| 1985 | | | | | 103 | | Bendock & Burr 1986 |

Catch Record:

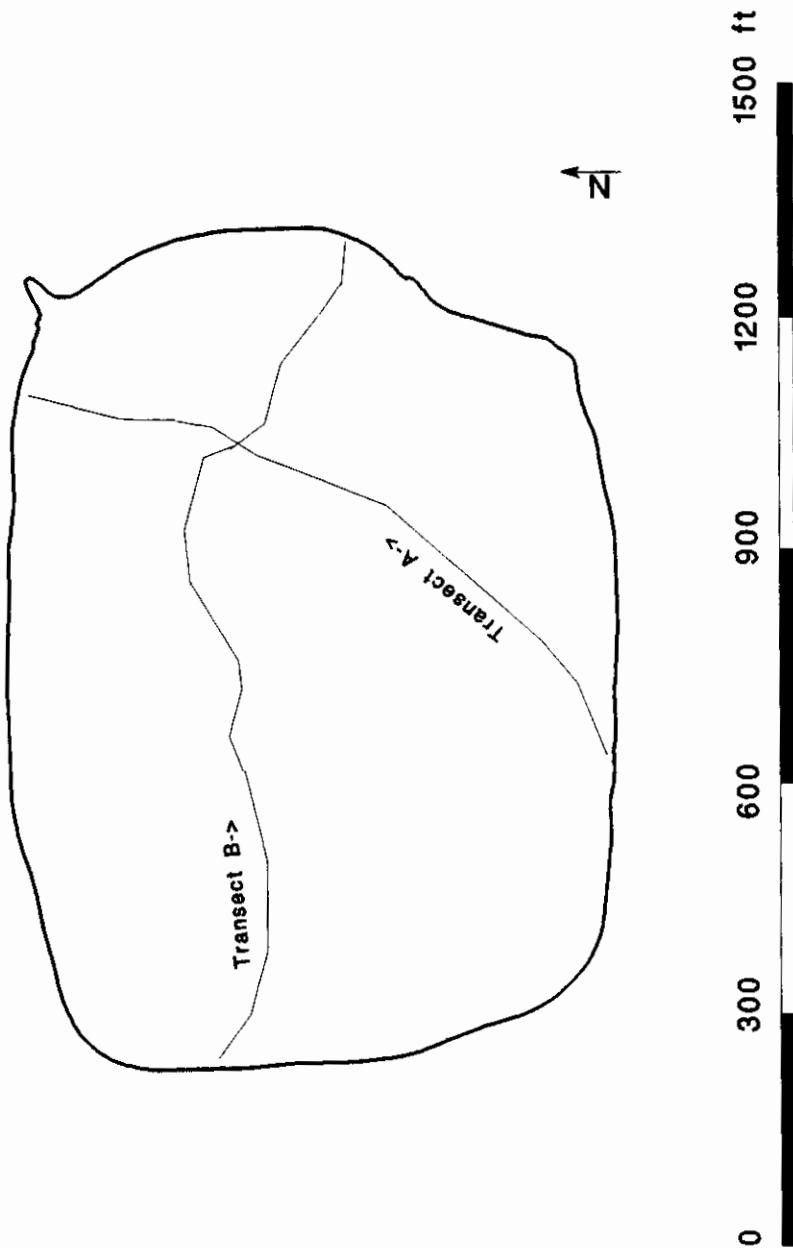
| Gear | Date | Effort (hours) | Species | Number Caught |
|----------|-----------------|-------------------|---------------------|------------------|
| Gill Net | Jul 16-19, 1985 | 0 | no catch, net lost. | |

J. Helmericks reports least cisco and Alaska blackfish

Source of 1985 data: Bendock & Burr 1986

P3.1
(M9706)
70°24.43'N 151°03.00'W

Sampled Jul 22, 1997



Lake P3.1

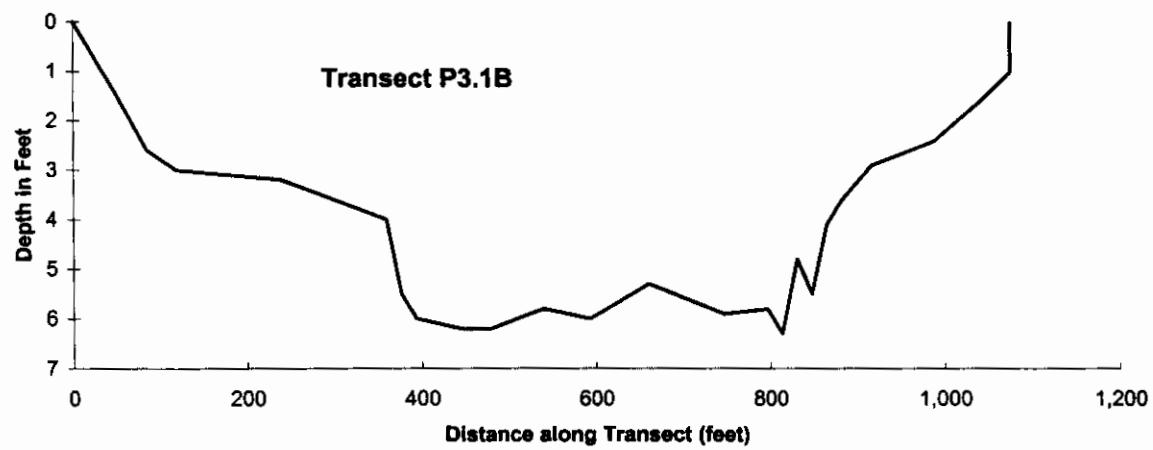
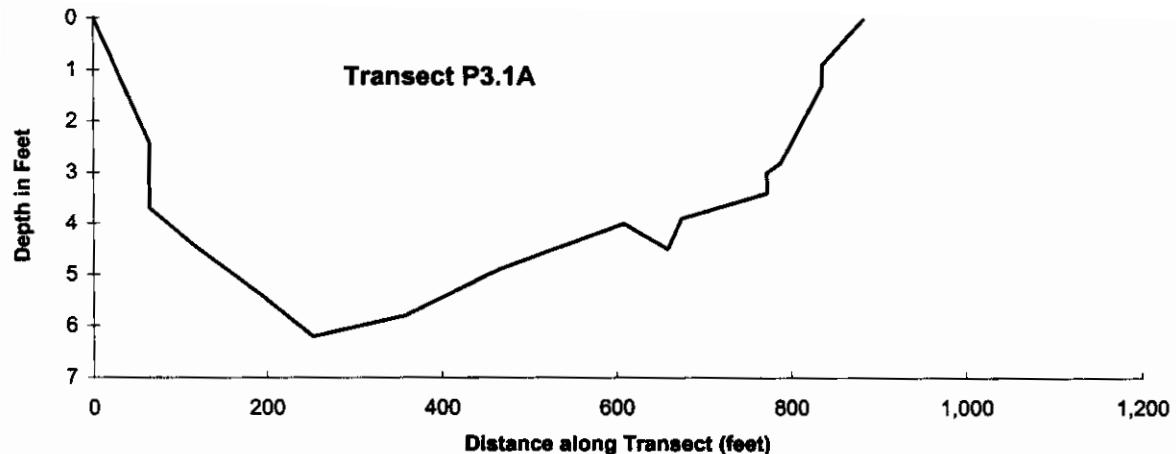
Other Names: M9706
Location: 70°24.43'N 151° 3.00'W
USGS Quad Sheet: Harrison Bay B-2: T12N R4E, Sect 11
Habitat: Perched Lake (Infrequent Flooding)
Area: 16 acres
Maximum Depth: 6.3 feet
Active Outlet: No
Spec. Conductance: 434 µS/cm
Calculated Volume: 10.8 million gallons
Permittable Volume: No fish concern

Water Quality:

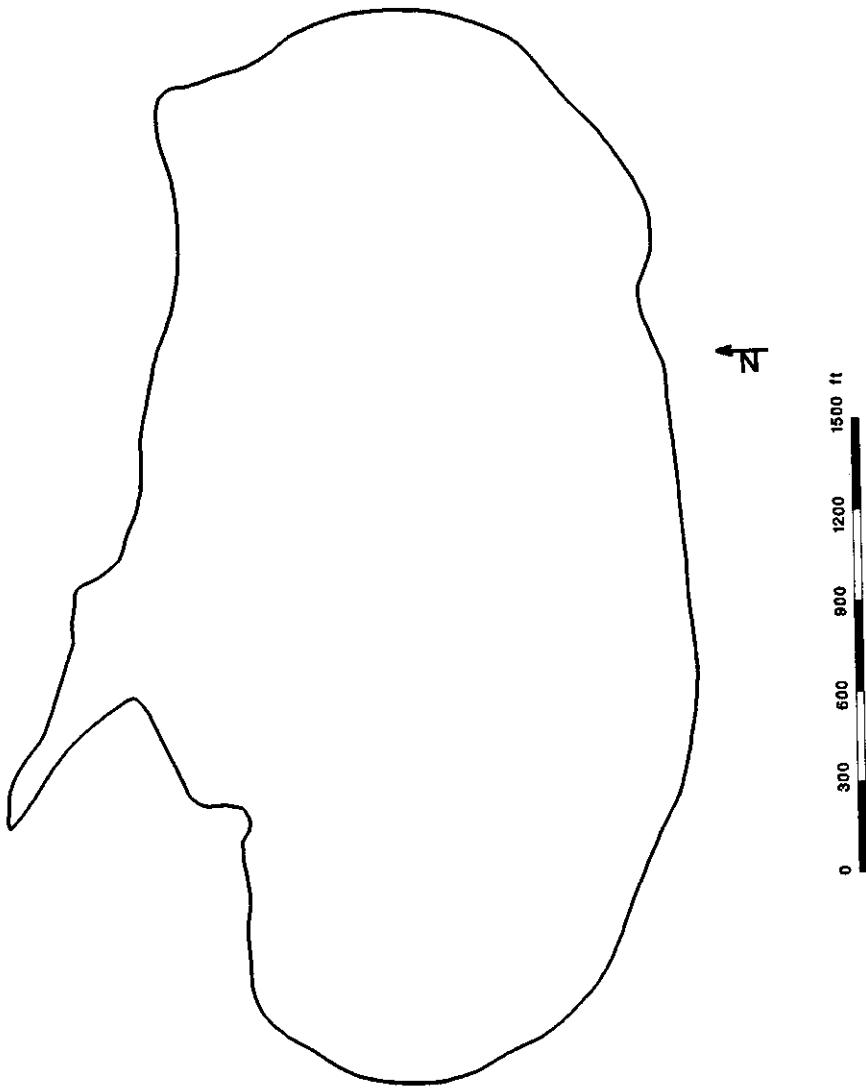
| Year of Test | Chloride (mg/l) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------------|--------------------|------------------|---------------------|-------------------|---|--|------------|
| 1997 | 112 | 84.7 | 9.4 | 27.8 | 108 | 256 | J. Lobdell |

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|-------------|-----------|-------------------|---------|------------------|
| Gillnet | Jul 22 97 | 10.0 | None | 0 |
| Minnow Trap | Jul 22 97 | 10.0 | None | 0 |



P6.3
(L9210)
70°24.6'N 150°55.14'W



Lake P6.3

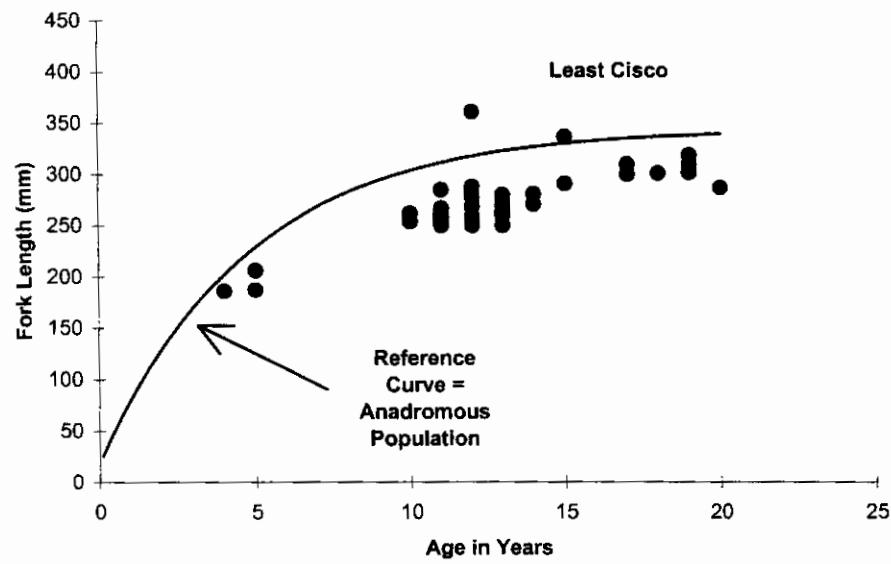
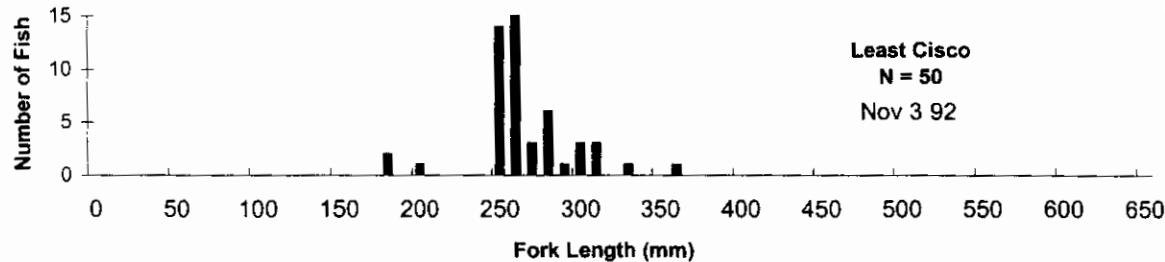
Other Names: L9210; M9213
Location: 70°24.61'N 150°55.14'W
USGS Quad Sheet: Harrison Bay B-2: T12N R5E, Sect 8
Habitat: Perched Lake (Infrequent Flooding)
Area: 117 acres
Maximum Depth: 14.5 feet
Active Outlet: No
Calculated Volume: 182.5 million gallons
Permittable Volume: 14.2 million gallons

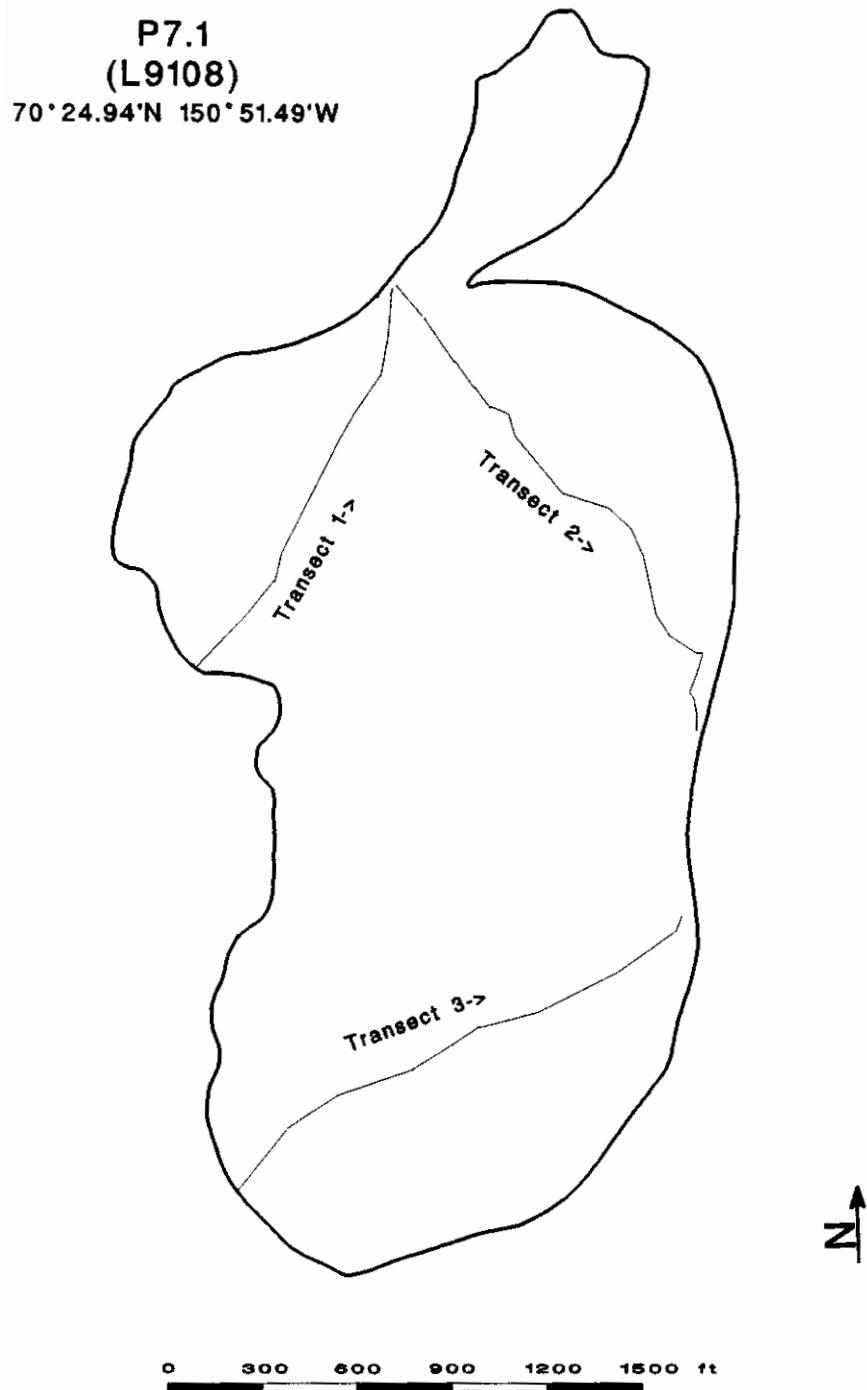
Water Quality:

| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------------|-------------------|------------------|---------------------|-------------------|---|--|------------|
| 1992 | 64 | 20.0 | 10 | 19 | 92 | 190 | J. Lobdell |

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|----------|----------|-------------------|-------------|------------------|---------------------|
| Gill Net | Nov 3 92 | 22.0 | Least cisco | 50 | 186-361 |





Lake P7.1

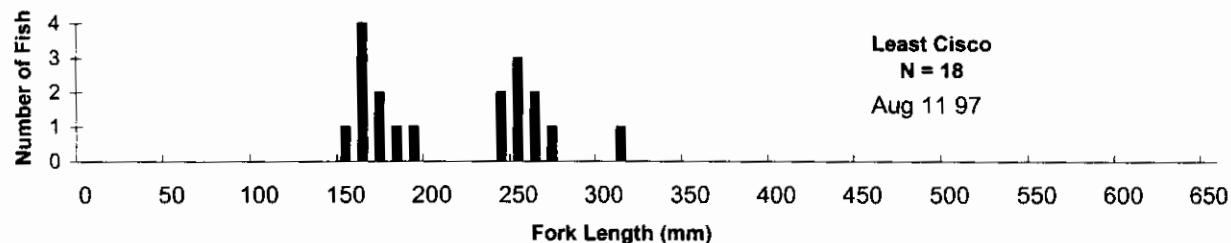
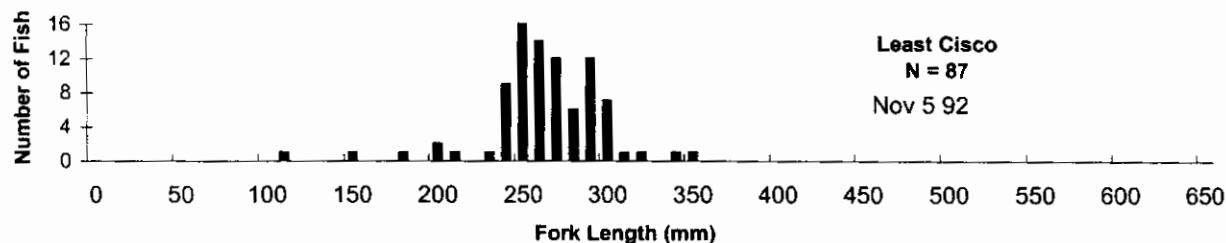
Other Names: L9108; M9212
Location: 70°24.94'N 150°51.49'W
USGS Quad Sheet: Harrison Bay B-2: T12N R5E, Sect 10
Habitat: Perched Lake (Infrequent Flooding)
Area: 112 acres
Maximum Depth: 17.1 feet
Active Outlet: No
Spec. Conductance: 1,867 $\mu\text{S}/\text{cm}$
pH: 8.1
Calculated Volume: 206.3 million gallons
Permittable Volume: 18.3 million gallons

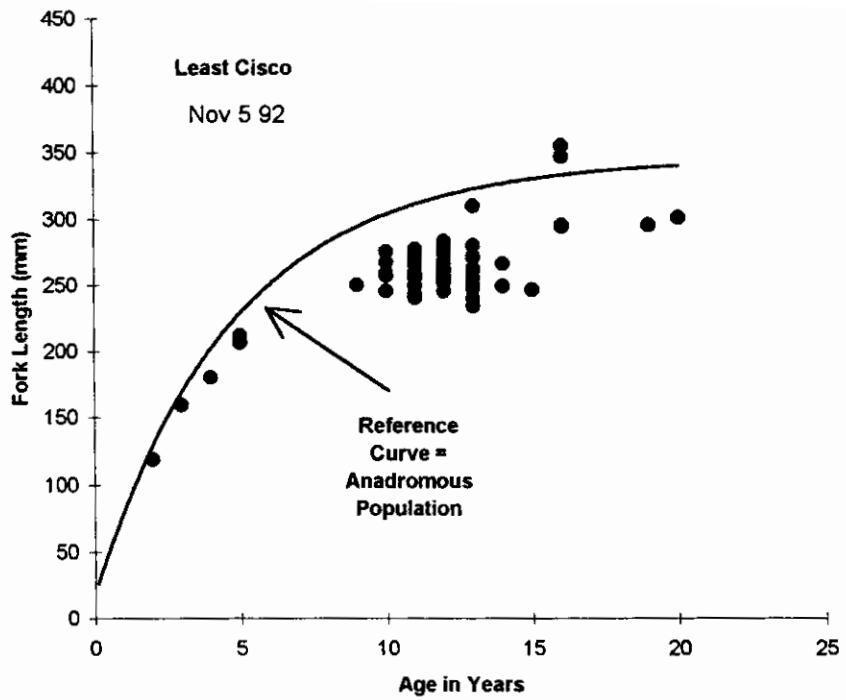
Water Quality:

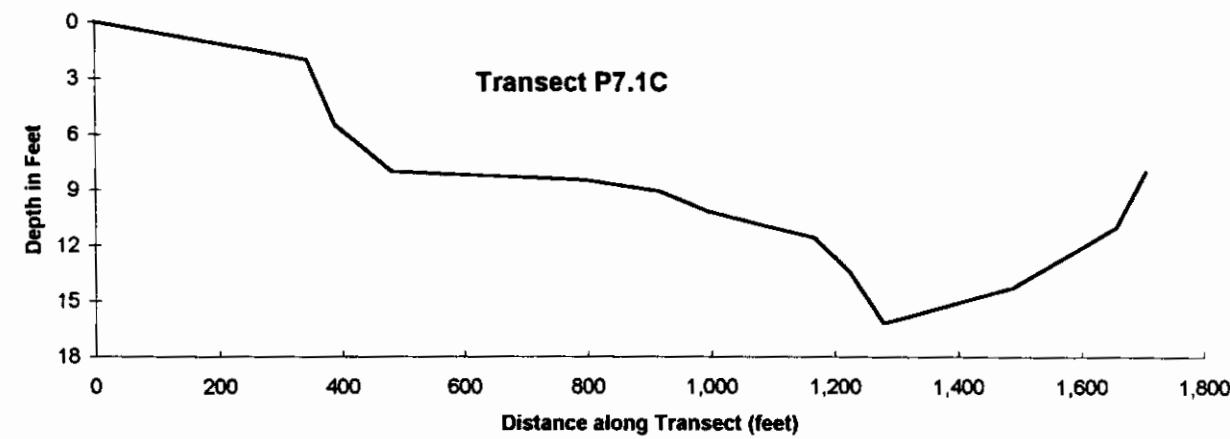
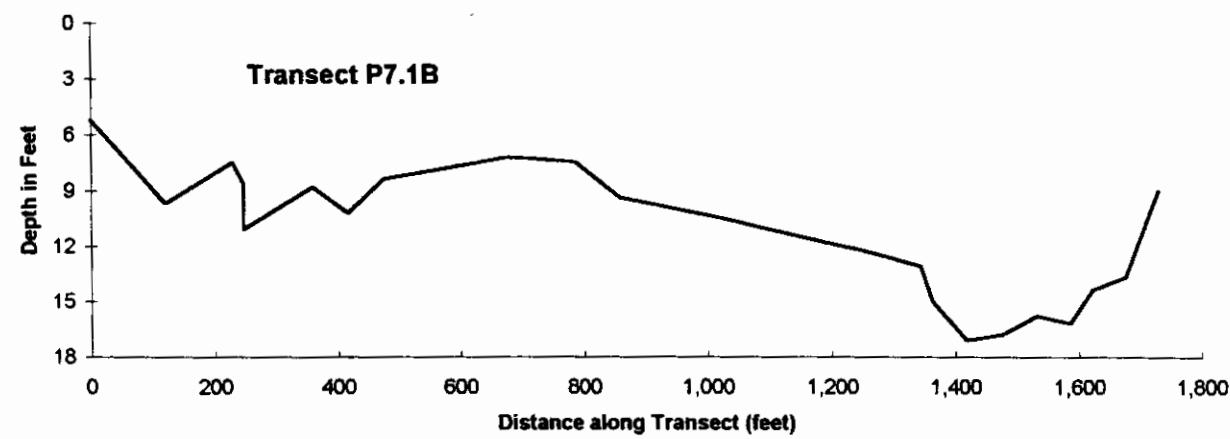
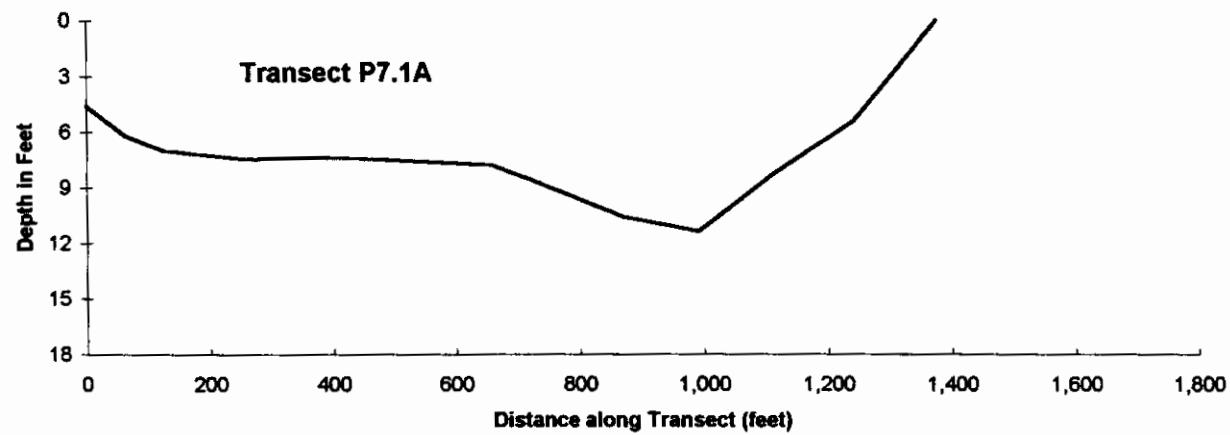
| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------|----------------|---------------|------------------|----------------|--|-------------------------------|------------|
| 1991 | 360 | 200.0 | 26 | 23 | 164 | 700 | J. Lobdell |

Catch Record:

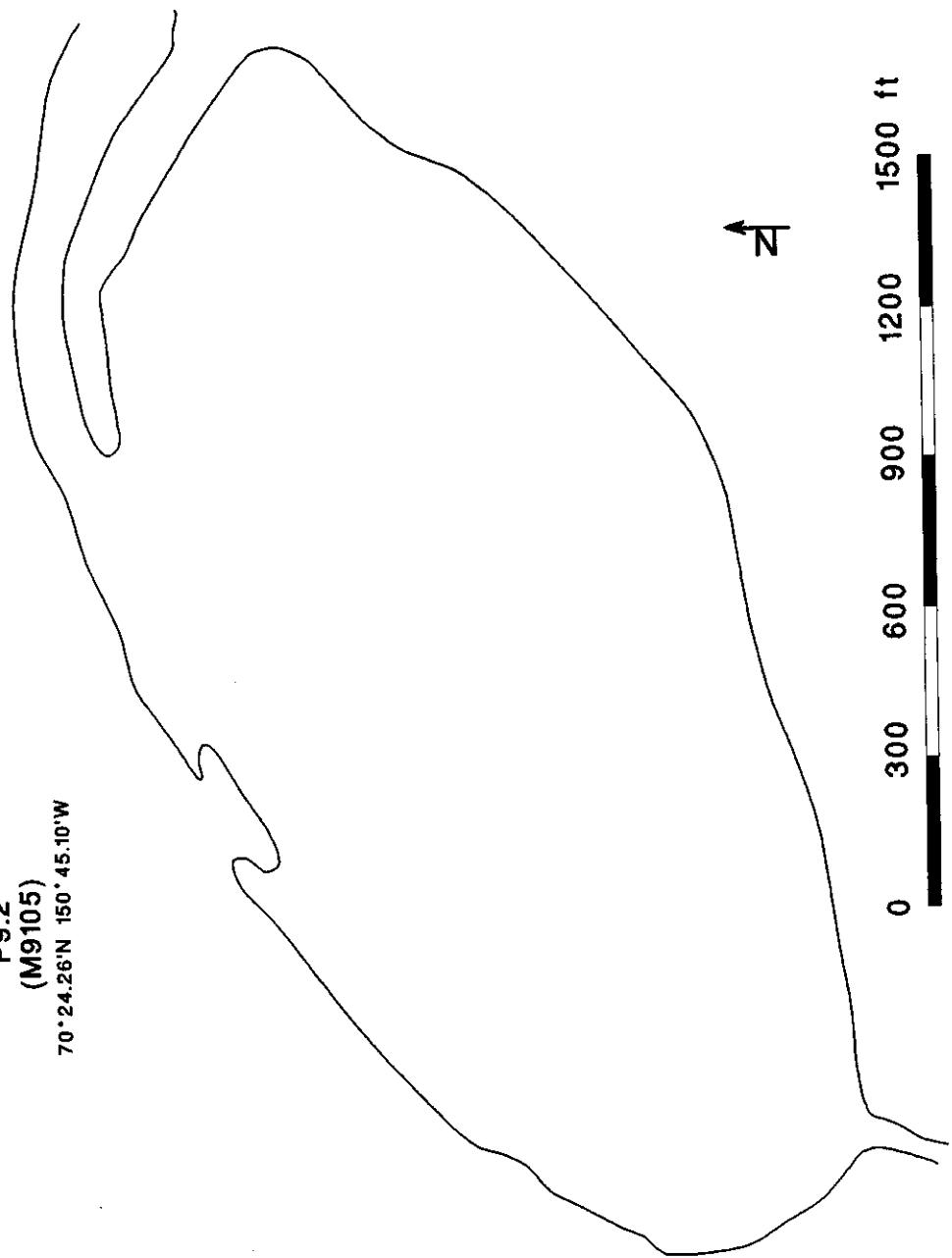
| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|-------------|-----------|----------------|-------------|---------------|------------------|
| Gill Net | Nov 5 92 | 20.0 | Least cisco | 87 | 119-355 |
| Gill Net | Aug 11 97 | 4.7 | Least cisco | 18 | 158-316 |
| Minnow Trap | Aug 11 97 | 12.7 | None | 0 | |







P9.2
(M9105)
70°24.26'N 150°45.10'W

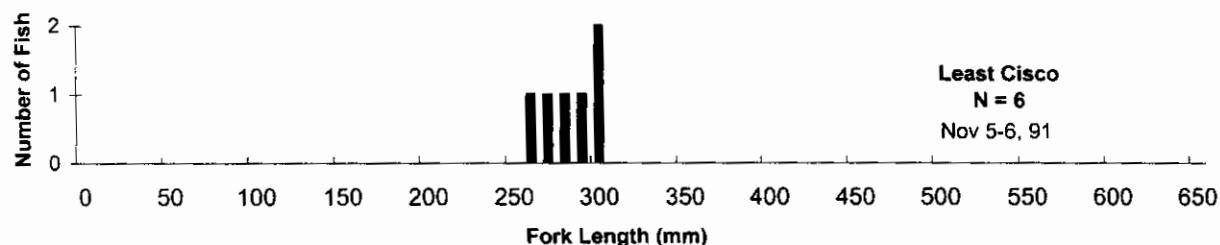
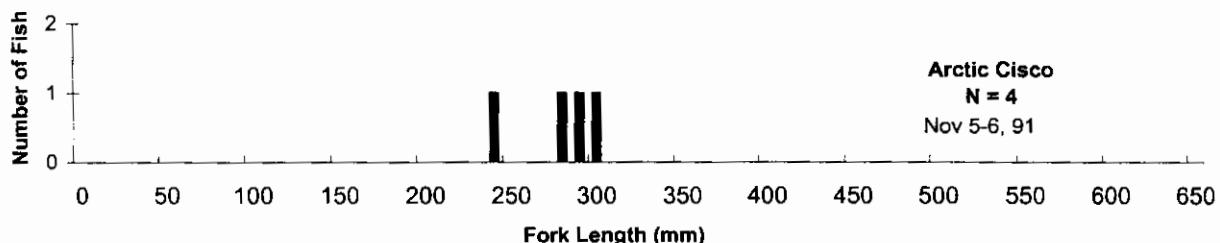


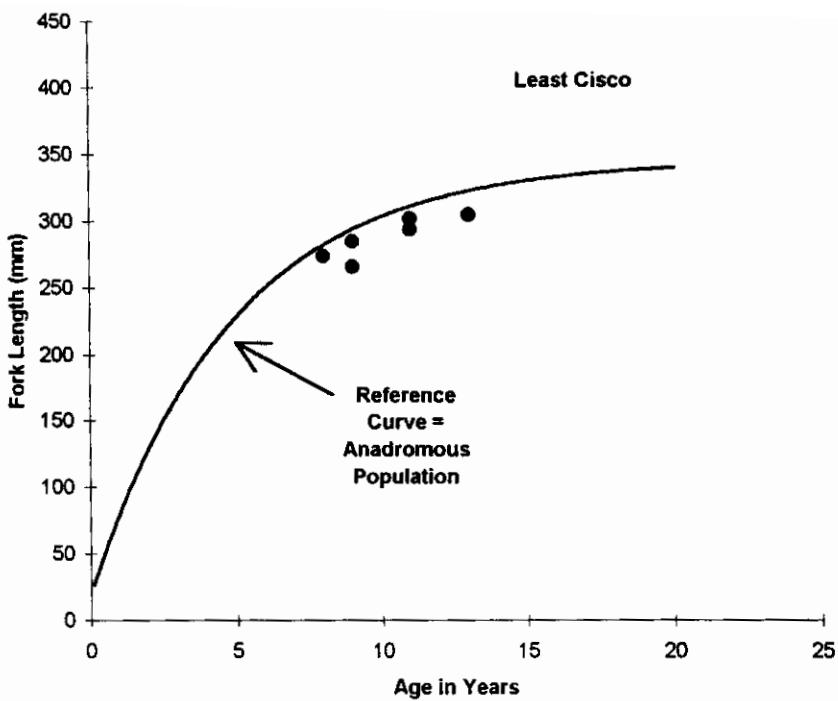
Lake P9.2

Other Names: M9105
Location: 70°24.46'N 150°35.00'W
USGS Quad Sheet: Harrison Bay B-2: T12N R5E, Sect 12
Habitat: Tapped Lake
Area: 55 acres
Maximum Depth: 8 feet
Active Outlet: Yes
Calculated Volume: 46.9 million gallons
Permittable Volume: 0.9 million gallons

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|----------|----------|-------------------|---------------|---------------|---------------------|
| Gill Net | Nov 5 91 | 48.0 | Least cisco | 3 | 266-305 |
| | | | Arctic cisco | 2 | 282, 305 |
| Gill Net | Nov 6 91 | 22.0 | Least cisco | 3 | 274-294 |
| | | | Arctic cisco | 2 | 244, 297 |
| | | | Rainbow smelt | 2 | 264, 265 |

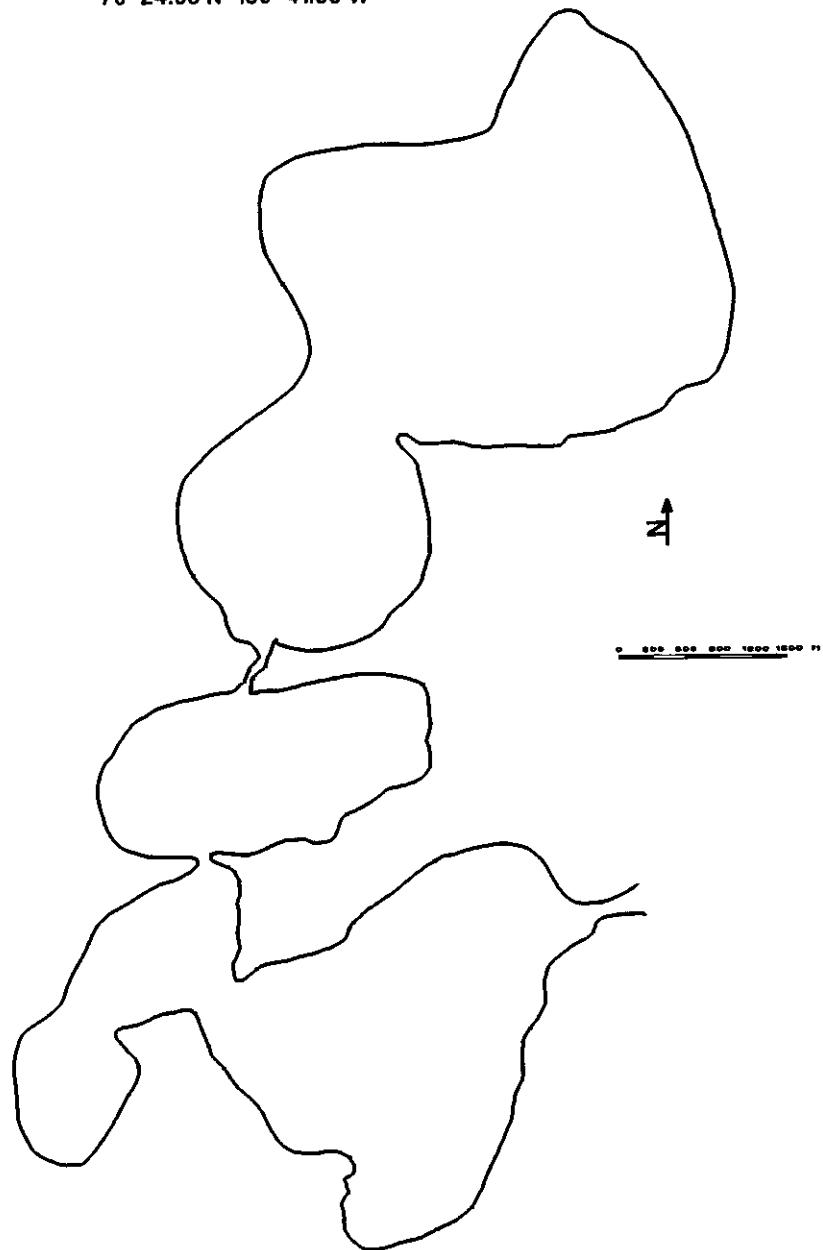




Salinity Profile:

| Date | Depth (m) | Salinity (ppt) |
|----------|--------------|-------------------|
| Nov 3 91 | 0.0 | 5.6 |
| | 0.5 | 5.6 |
| | 1.0 | 6.3 |
| | 1.5 | 8.0 |
| | 2.0 | 9.2 |
| | 2.5 | 10.3 |
| Nov 6 91 | 0.0 | 6.7 |
| | 0.5 | 6.8 |
| | 1.0 | 7.8 |
| | 1.5 | 10.4 |
| | 2.0 | 12.0 |
| | 2.5 | 13.2 |

P11.3
(MC7920)
70° 24.93'N 150° 41.88'W



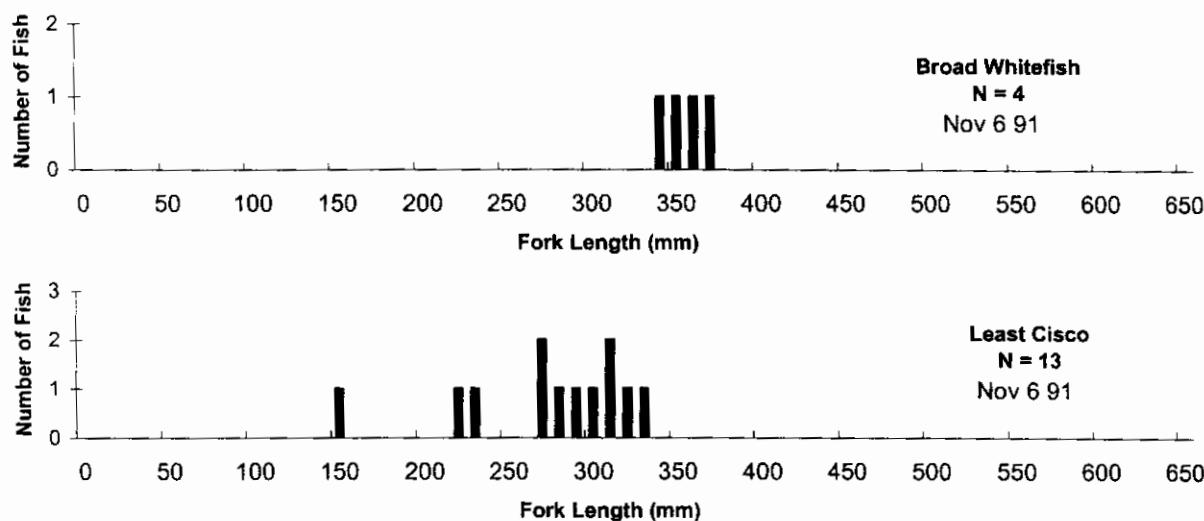
Lake P11.3

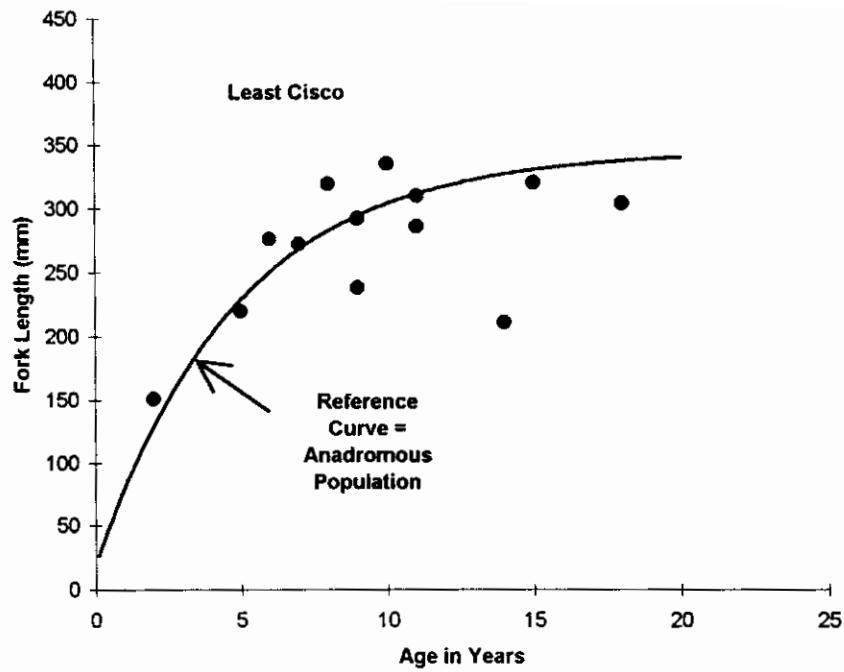
Other Names: MC7920; M9107
Location: 70°25'N 150°41'W
USGS Quad Sheet: Harrison Bay B-2; T12N R6E, Sect 5
Habitat: Tapped Lake
Area: 658 acres
Maximum Depth: 8 feet
Active Outlet: Yes
Calculated Volume: 565.5 million gallons
Permittable Volume: 10.6 million gallons

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|----------|----------|-------------------|--------------------|---------------|---------------------|
| Gill Net | Sep 9 79 | 19.3 | Broad whitefish | 26 | 120-445 |
| | | | Humpback whitefish | 2 | 332-372 |
| | | | Least cisco | 50 | 130-332 |
| | | | Arctic cisco | 5 | 247-352 |
| | | | Rainbow smelt | 1 | 244 |
| | | | Arctic flounder | 1 | 169 |
| | | | Fourhorn sculpin | 4 | |
| Gill Net | Nov 6 91 | 21.0 | Broad whitefish | 4 | 343-370 |
| | | | Humpback whitefish | 1 | 164 |
| | | | Least cisco | 13 | 151-335 |
| | | | Arctic cisco | 3 | 114, 124, 245 |
| | | | Fourhorn sculpin | 1 | |

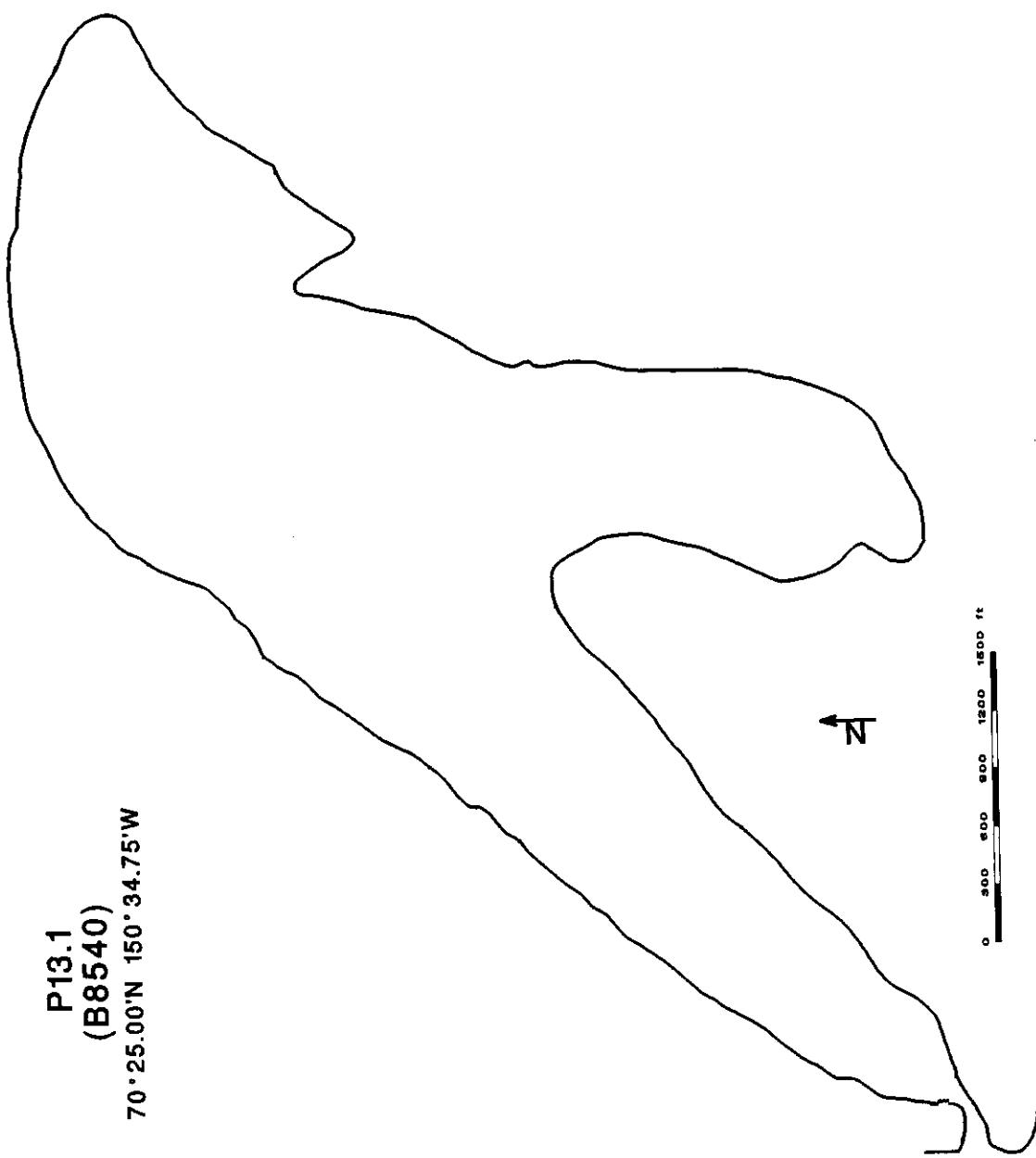
Source of 1979 data: McElderry & Craig 1981





Salinity Profile:

| Date | Depth (m) | Salinity (ppt) |
|----------|-----------|----------------|
| Nov 6 91 | 0.0 | 2.5 |
| | 0.5 | 2.5 |
| | 1.0 | 2.7 |
| | 1.5 | 3.3 |
| | 2.0 | 4.8 |
| | 2.5 | 7.9 |



Lake P13.1

Other Names: B8540
Location: 70°25.00'N 150°34.75'W
USGS Quad Sheet: Harrison Bay B-1: T12N R6E, Sect 3
Habitat: Tapped Lake
Area: 232 acres
Maximum Depth: 10 feet
Active Outlet: Yes
Spec. Conductance: 1,682 $\mu\text{S}/\text{cm}$ (1985)
pH: 8.5 (1985)
Calculated Volume: 249.6 million gallons
Permittable Volume: 11.2 million gallons

Water Quality:

| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------------|-------------------|------------------|---------------------|-------------------|---|--|---------------------|
| 1985 | | | | 274 | | | Bendock & Burr 1986 |

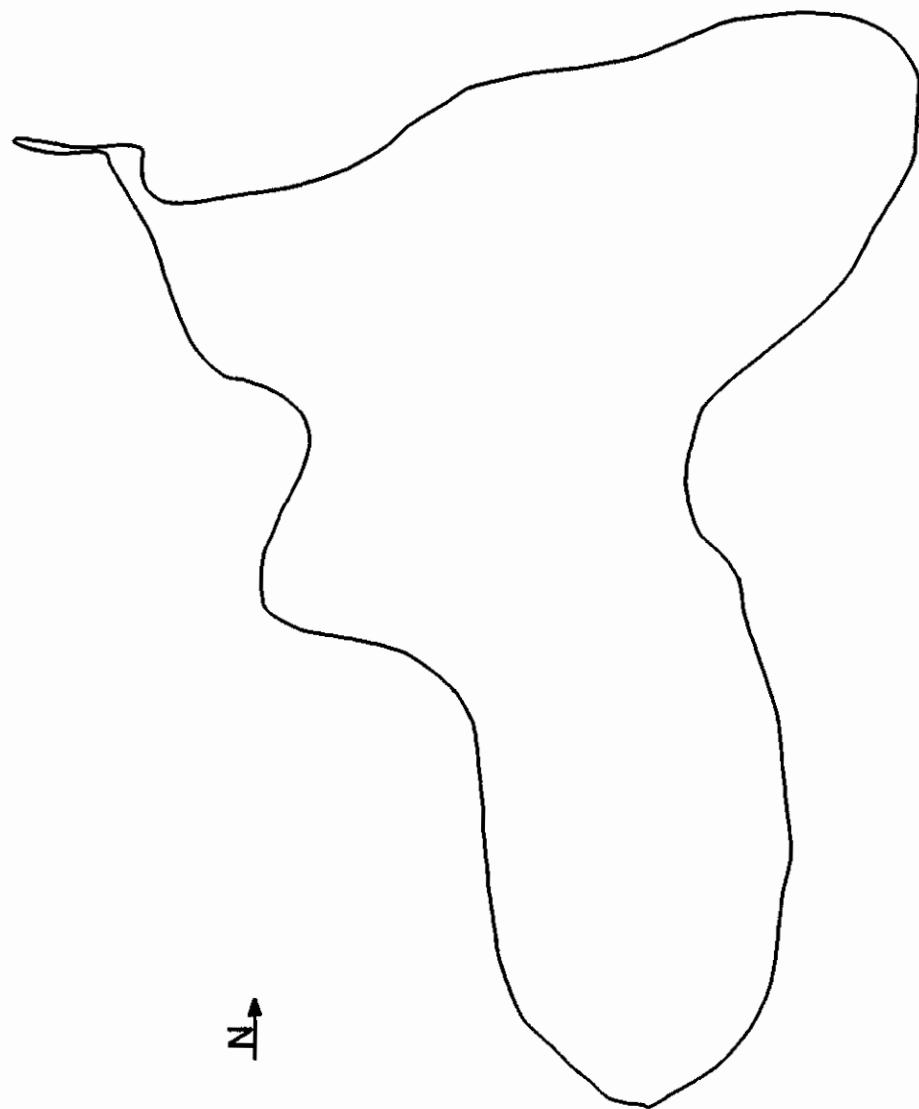
Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|----------|-----------------|-------------------|-----------------|------------------|
| Gill Net | Jul 16-19, 1985 | ~24 | Broad whitefish | ? |
| | | | Least cisco | ? |

Source of 1985 data: Bendock & Burr 1986

P14.1
(L9111)

70° 24.84'N 150° 32.31'W



0 300 600 900 1200 1500 ft

Lake P14.1

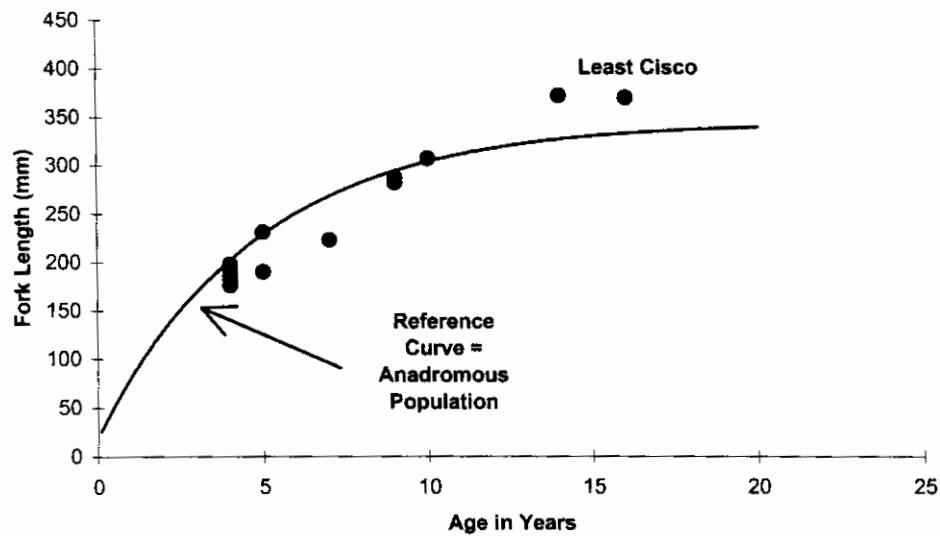
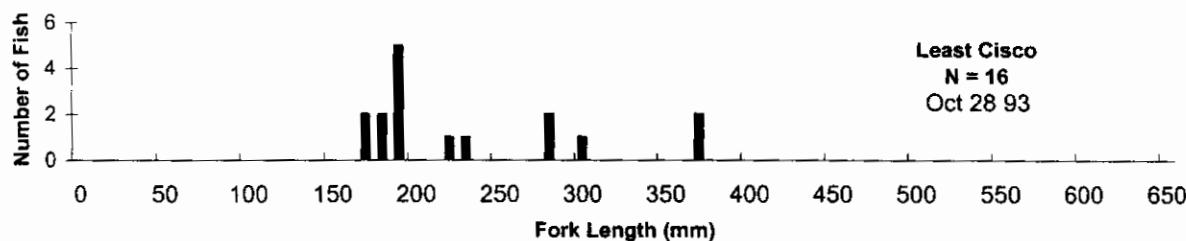
Other Names: L9111; M9303
Location: 70°24.84'N 150°32.31'W
USGS Quad Sheet: Harrison Bay B-1: T12N R6E, Sect 11
Habitat: Perched Lake (Frequent Flooding)
Area: 33 acres
Maximum Depth: 14 feet
Active Outlet: Yes
Calculated Volume: 49.2 million gallons
Permittable Volume: 3.7 million gallons

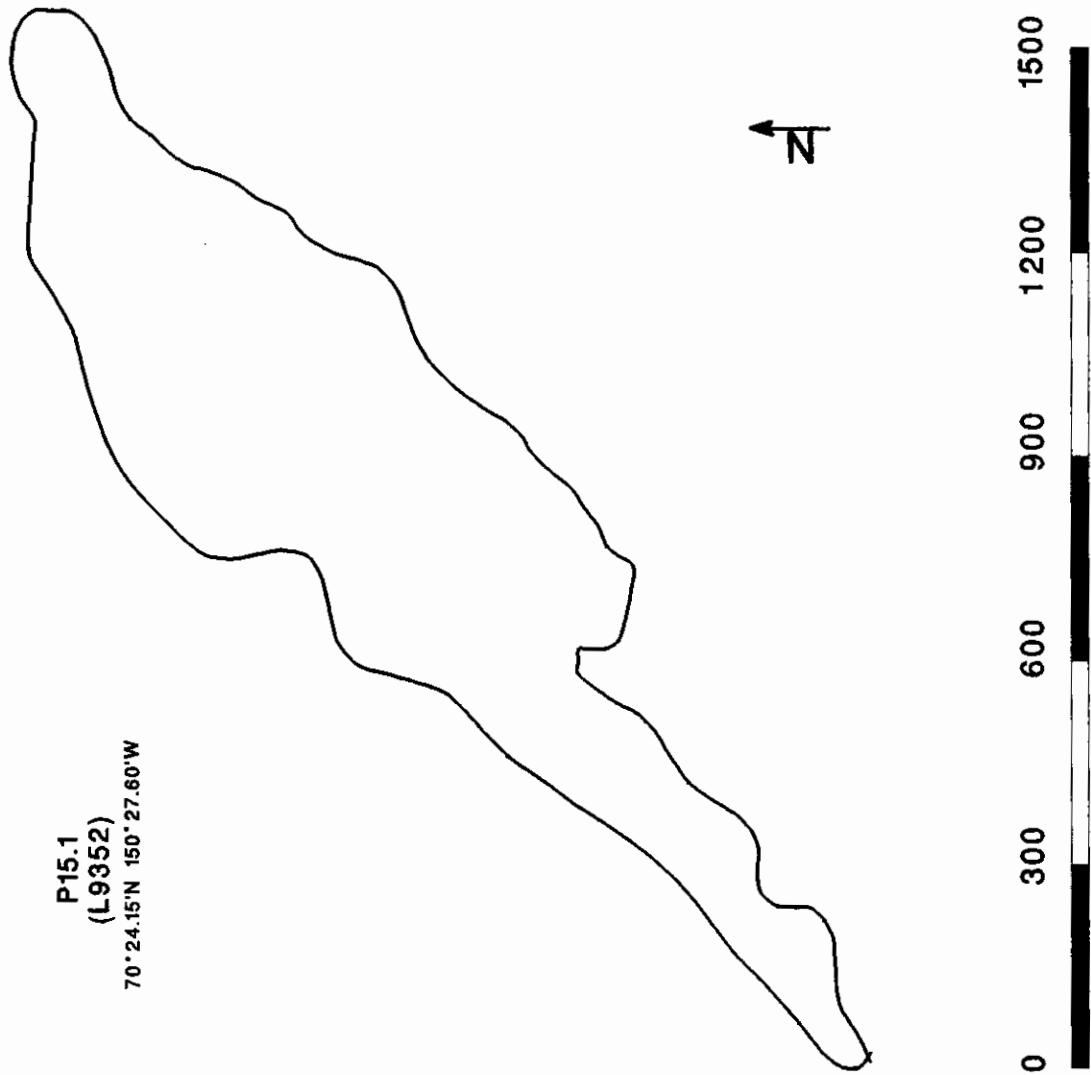
Water Quality:

| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------|----------------|---------------|------------------|----------------|--|-------------------------------|------------|
| 1991 | 86 | 13.0 | 10 | 15 | 79 | 272 | J. Lobdell |

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|-------------|-----------|----------------|--------------|---------------|------------------|
| Gill Net | Oct 28 93 | 21.6 | Least cisco | 16 | 176-372 |
| | | | Arctic cisco | 1 | 390 |
| Minnow Trap | Oct 28 93 | 21.6 | None | 0 | |





Lake P15.1

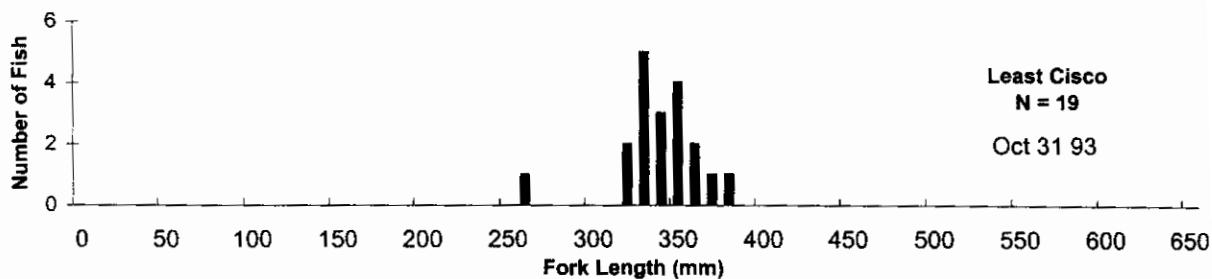
Other Names: L9352; M9304
Location: 70°24.15'N 150°27.60'W
USGS Quad Sheet: Harrison Bay B-2: T12N R7E, Sect 7
Habitat: Perched Lake (Infrequent Flooding)
Area: 10 acres
Maximum Depth: 14 feet
Active Outlet: No
Calculated Volume: 14.9 million gallons
Permittable Volume: 1.1 million gallons

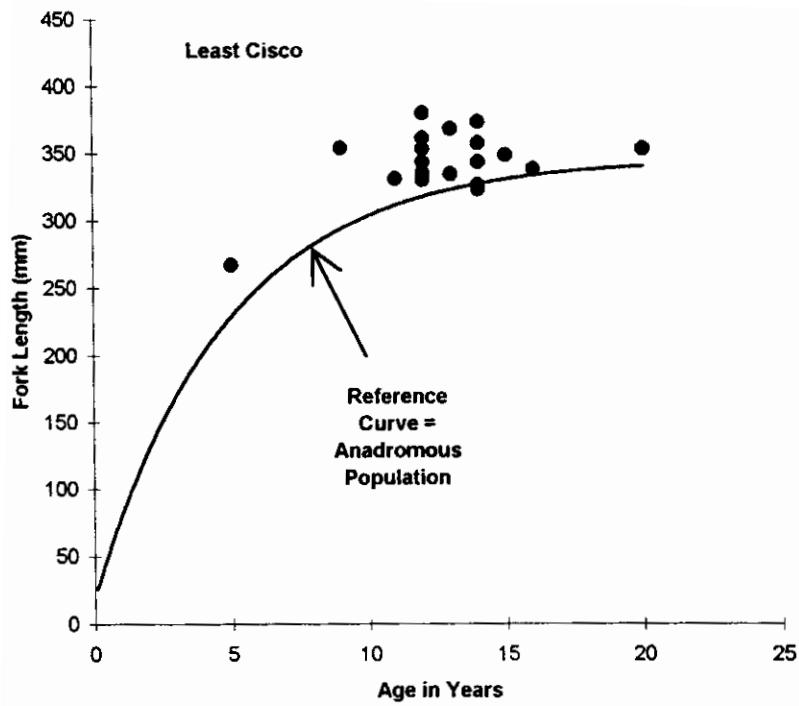
Water Quality:

| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------------|-------------------|------------------|---------------------|-------------------|---|--|------------|
| 1993 | 15 | 7.8 | 2.8 | 7.4 | 30 | 55 | J. Lobdell |

Catch Record:

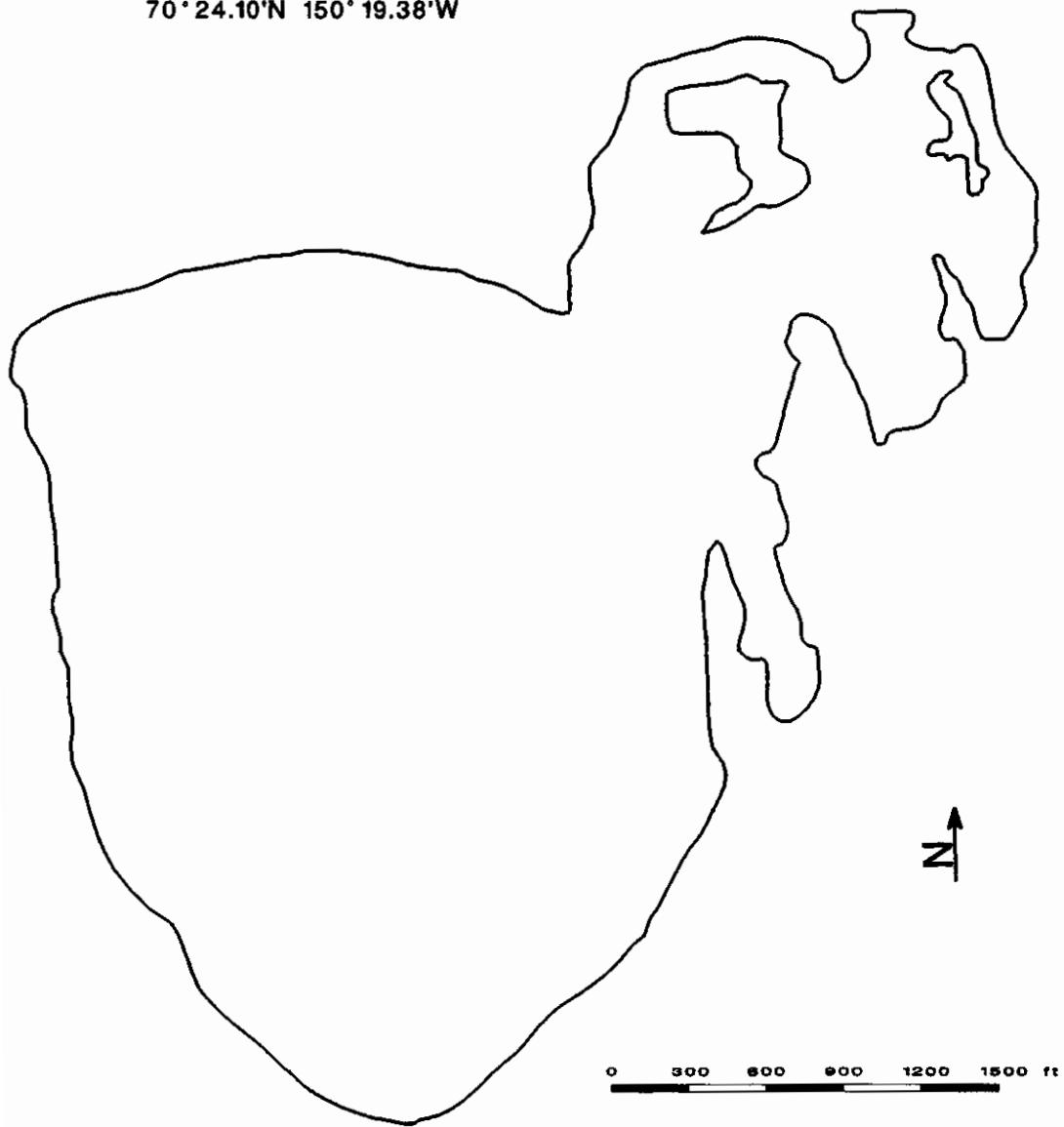
| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|-------------|-----------|-------------------|-----------------|------------------|---------------------|
| Gill Net | Oct 31 93 | 70.5 | Broad Whitefish | 2 | 343, 377 |
| | | | Least cisco | 20 | 267-380 |
| | | | Round whitefish | 2 | 344, 346 |
| | | | Burbot | 2 | 400, 500 |
| Minnow Trap | Oct 31 93 | 70.5 | None | 0 | |





P18.1
(B8545)

70° 24.10'N 150° 19.38'W



Lake P18.1

Other Names: B8545; L9114
Location: 70°24.10'N 15°19.38'W
USGS Quad Sheet: Harrison Bay B-1: T12N R7E, Sect 10, 15
Habitat: Perched Lake (Infrequent Flooding)
Area: 208 acres
Maximum Depth: 7.5 feet
Active Outlet: No
Spec. Conductance: 238 $\mu\text{S}/\text{cm}$ (1985)
pH: 8.0 (1985)
Calculated Volume: 167.3 million gallons
Permittable Volume: 1.7 million gallons

Water Quality:

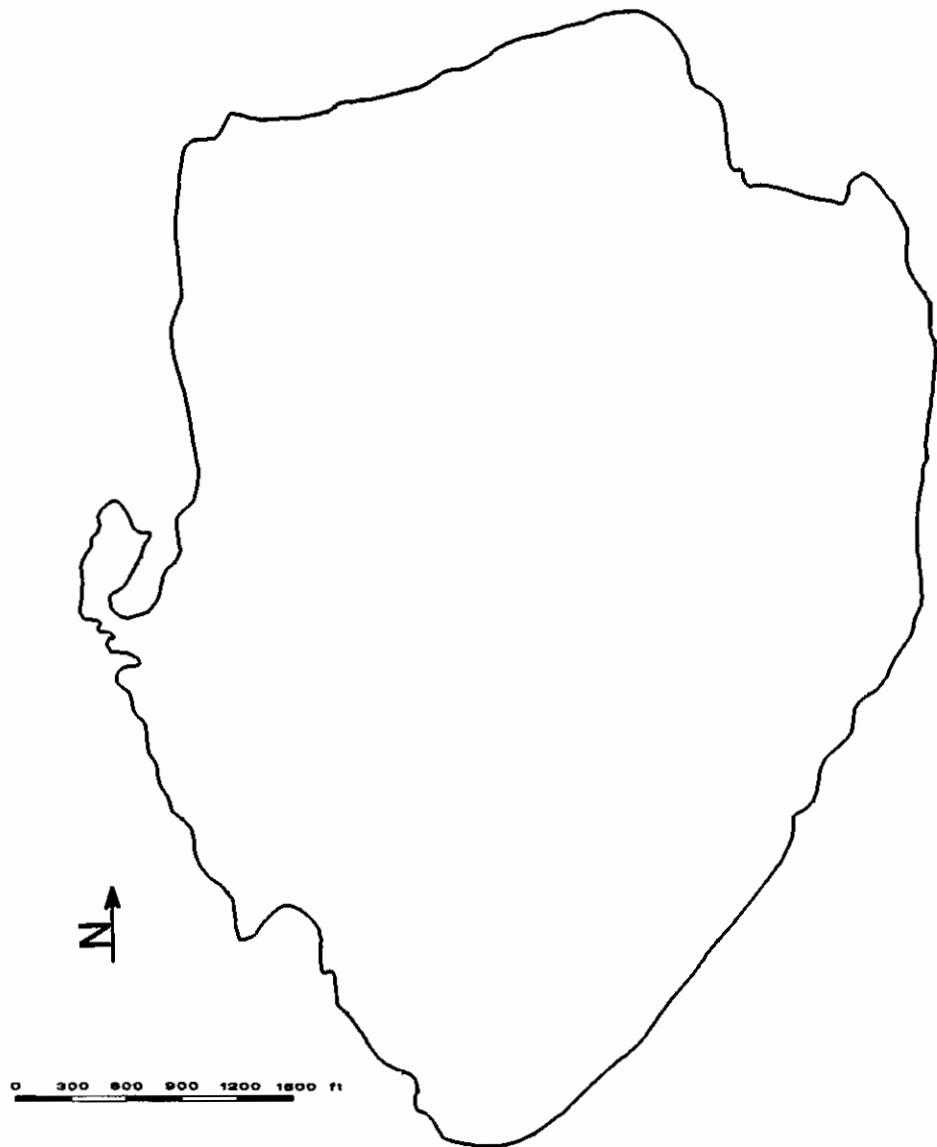
| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness | Total Dissolved [CaCO ₃] (mg/l) | Source |
|--------------------|-------------------|------------------|---------------------|-------------------|--------------------------------|--|---------------------|
| | | | | | [CaCO ₃] (mg/l) | Solids (mg/l) | |
| 1985 | | | | | 68 | | Bendock & Burr 1986 |

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|----------|-----------------|-------------------|-----------------|------------------|
| Gill Net | Jul 16-19, 1985 | ~24 | Broad whitefish | ? |
| | | | Least cisco | ? |

Source of 1985 data: Bendock & Burr 1986

P21.1
(MC7901)
70°24.83'N 150°11.85'W



Lake P21.1

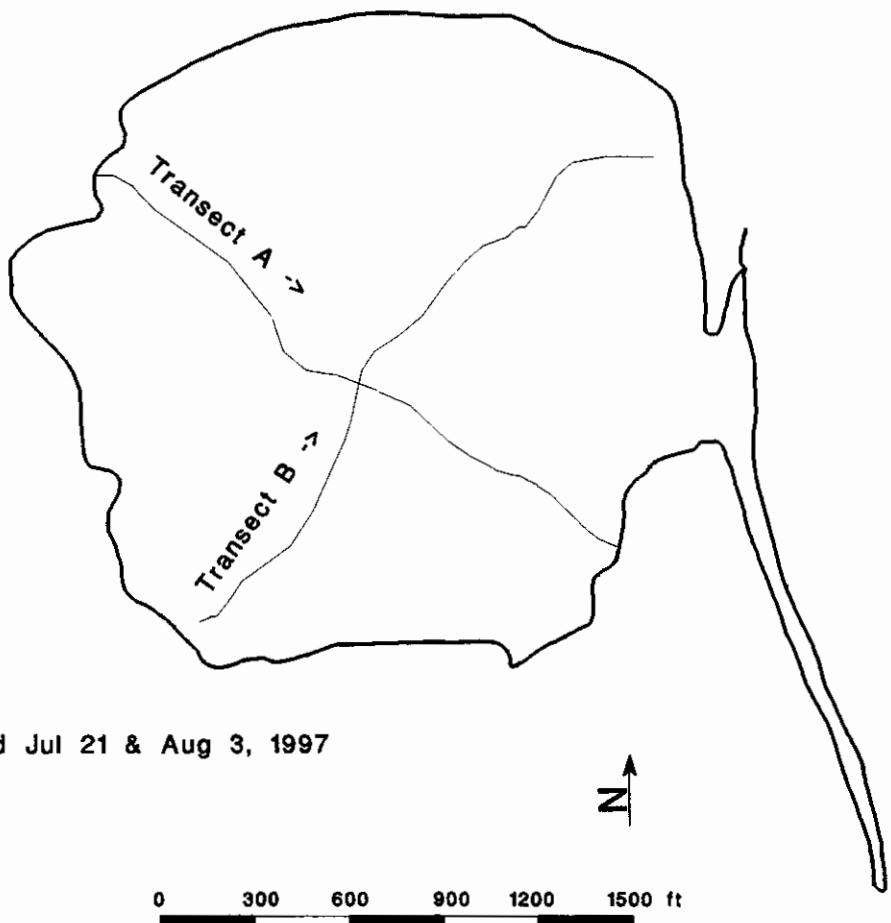
Other Names: MC7901; L9115
Location: 70°24.83'N 150°11.85'W
USGS Quad Sheet: Harrison Bay B-1: T12N R8E, Sect 7
Habitat: Drainage Lake
Area: 429 acres
Maximum Depth: 5.0 feet
Active Outlet: No
Calculated Volume: 230.6 million gallons
Permittable Volume: 0.0 million gallons

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|----------|----------|-------------------|---------|------------------|
| Gill Net | Sep 5 79 | ? | None | 0 |

Source of 1979 data: McElderry & Craig 1981

Q3.1
(L9401)
70°23.82'N 151°03.58'W



Lake Q3.1

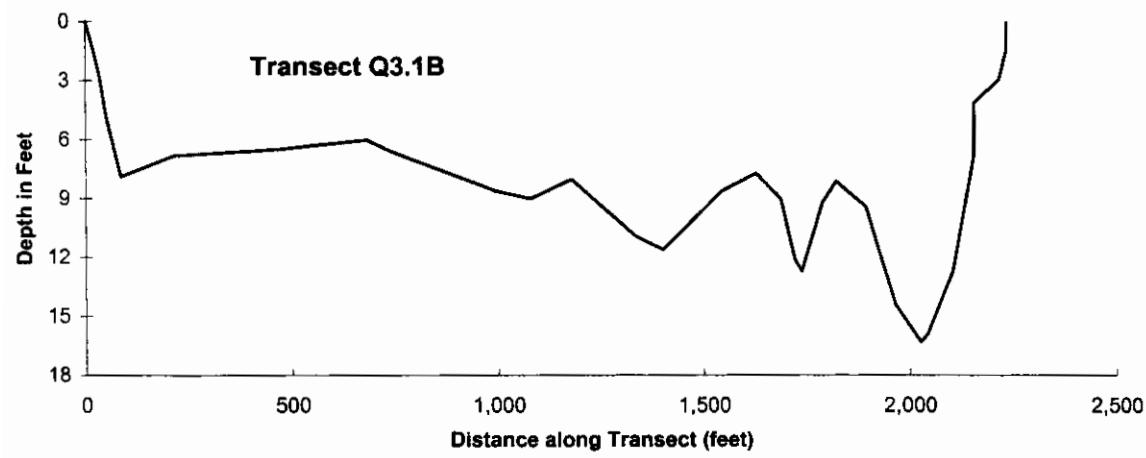
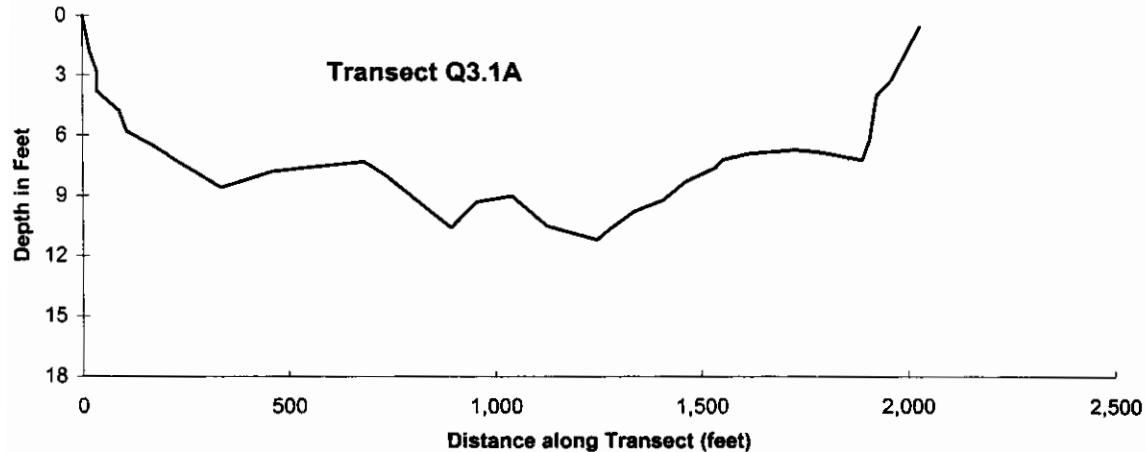
Other Names: L9401
Location: 70°23.82'N 151° 3.58'W
USGS Quad Sheet: Harrison Bay B-2: T12N R4E, Sect 14
Habitat: Perched Lake (Frequent Flooding)
Area: 86 acres
Maximum Depth: 16.3 feet
Active Outlet: No
Spec. Conductance: 1,257 $\mu\text{S}/\text{cm}$
Calculated Volume: 151.1 million gallons
Permittable Volume: 12.9 million gallons

Water Quality:

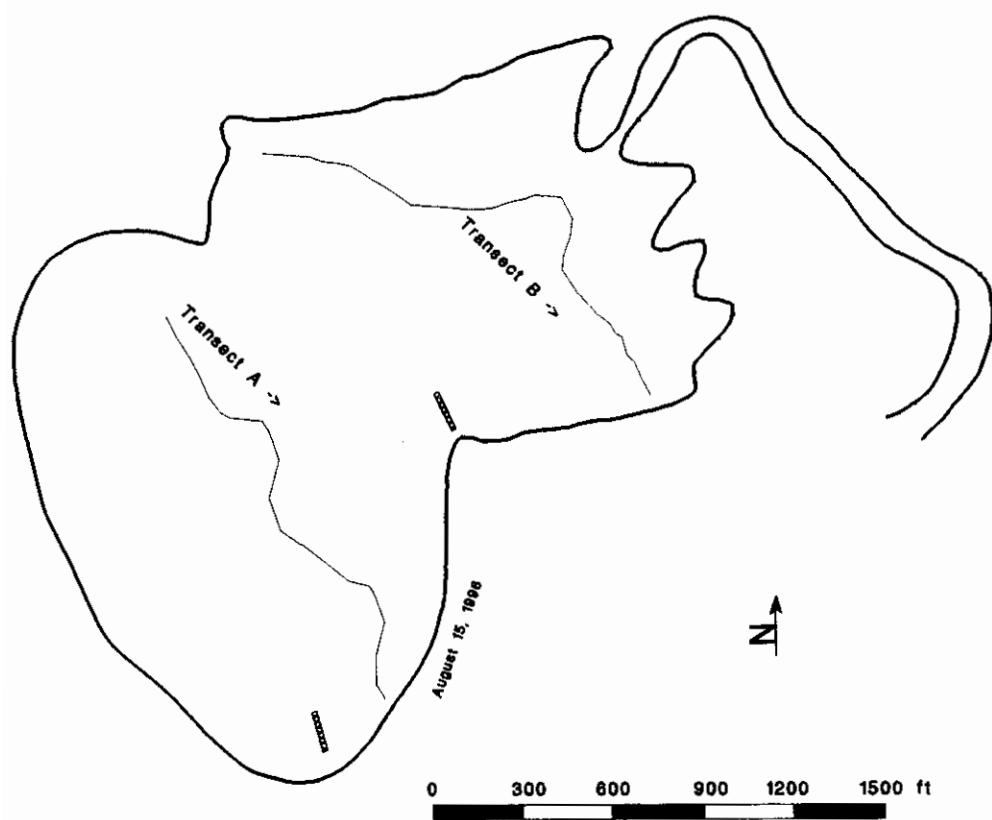
| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------------|-------------------|------------------|---------------------|-------------------|---|--|------------|
| 1994 | 462 | 381.0 | 26.9 | 22.7 | 167 | 621 | J. Lobdell |

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|-------------|-----------|-------------------|--------------------|------------------|
| Gillnet | Jul 21 97 | 9.9 | None | 0 |
| | Aug 3 97 | 10.8 | None | 0 |
| Minnow Trap | Jul 21 97 | 21.0 | 9spine stickleback | 308 |



Q5.1
(M9625)
70°23.49'N 150°58.18'W

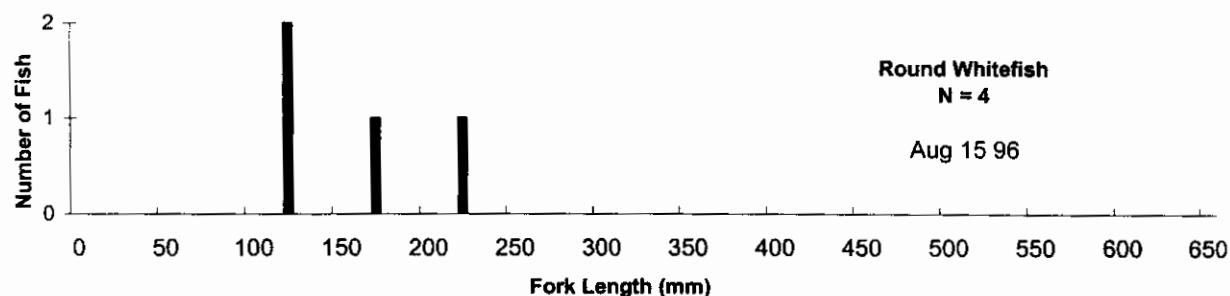
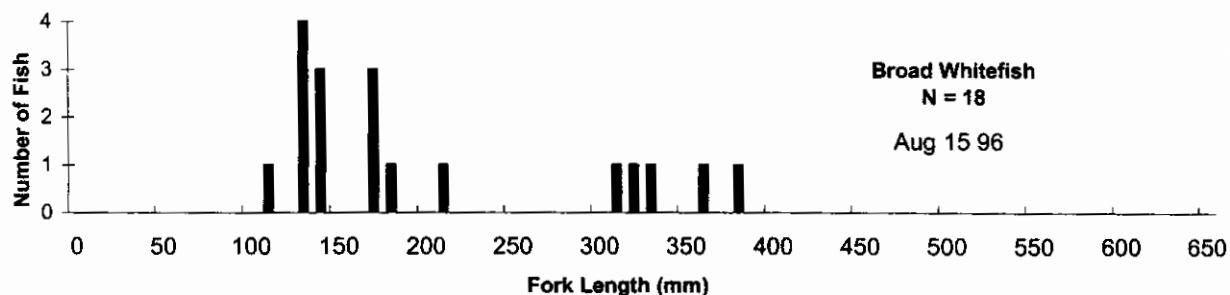


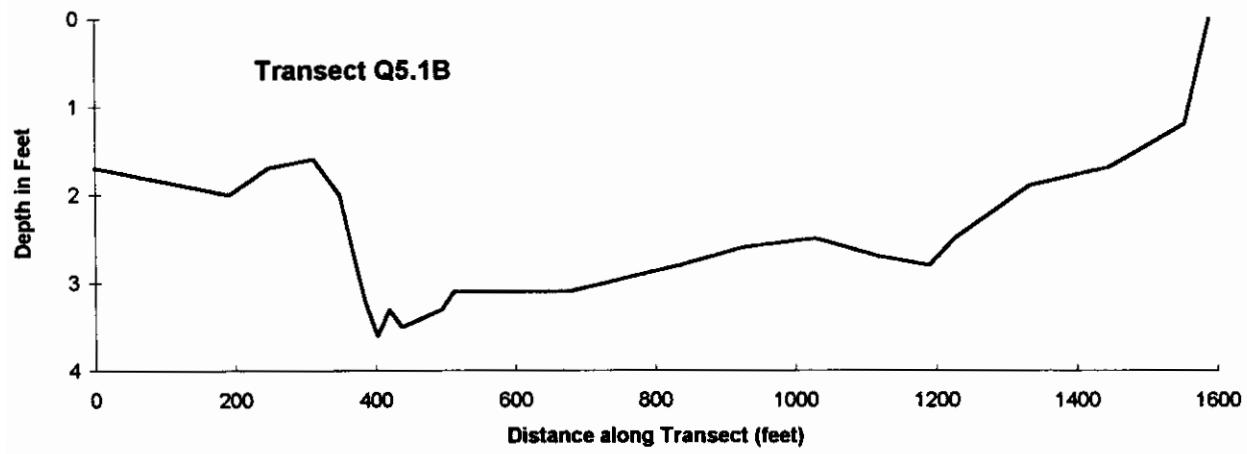
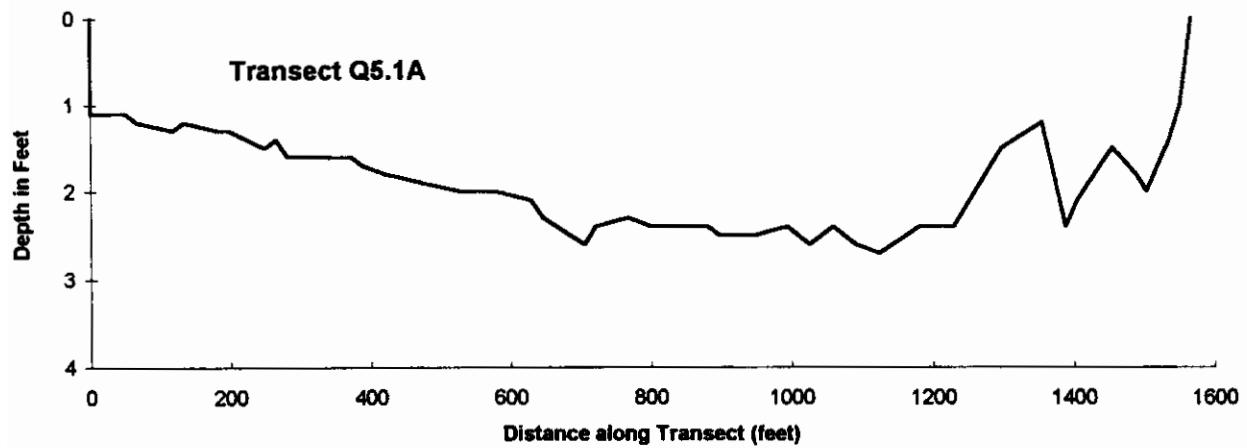
Lake Q5.1

Other Names: M9625
Location: 70°23.49'N 150°58.18'W
USGS Quad Sheet: Harrison Bay B-2: T12N R4E, Sect 24
Habitat: Tapped Lake
Area: 73 acres
Maximum Depth: 3.6 feet
Active Outlet: Yes
Spec. Conductance: 1,051 $\mu\text{S}/\text{cm}$
Calculated Volume: 28.2 million gallons
Permittable Volume: 0.0 million gallons

Catch Record:

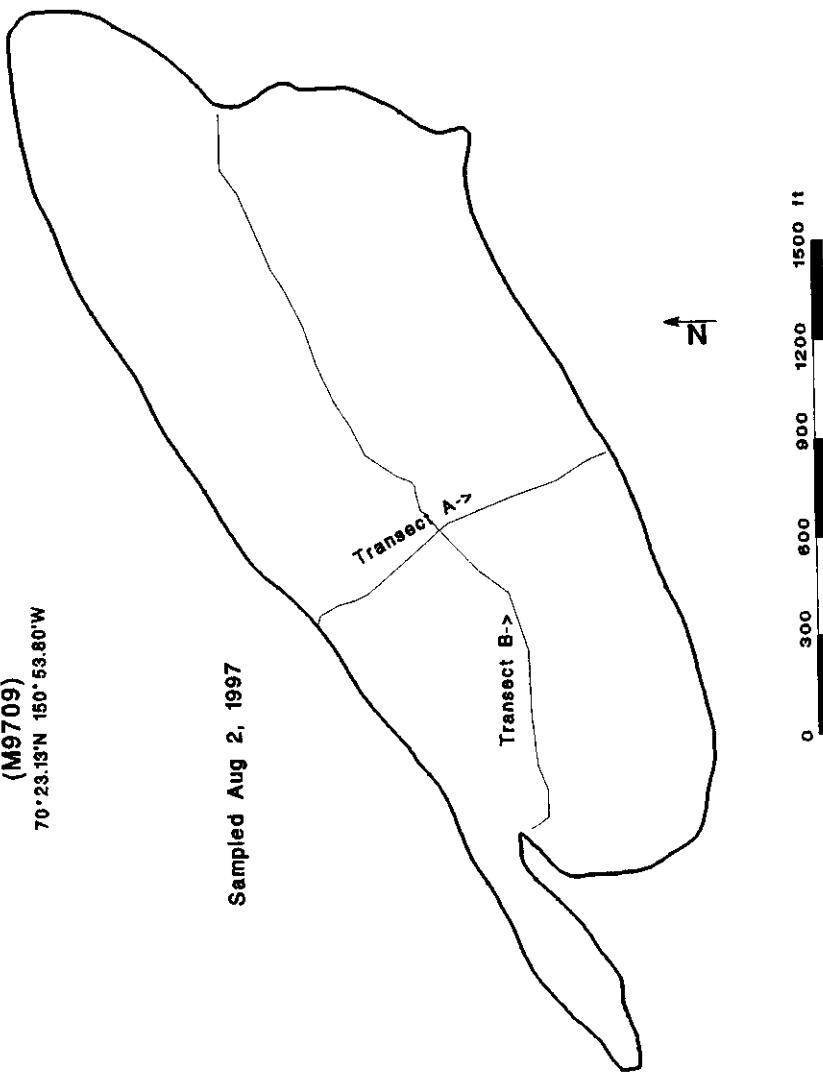
| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|----------|-----------|-------------------|--------------------|---------------|---------------------|
| Gill Net | Aug 15 96 | 8.5 | Broad whitefish | 21 | 119-386 |
| | | | Humpback whitefish | 1 | 377 |
| | | | Round whitefish | 4 | 121-223 |
| | | | Arctic grayling | 1 | 226 |
| | | | Fourhorn sculpin | 1 | 160 |





Q7.1
(M9709)
70°23.13'N 150°53.80'W

Sampled Aug 2, 1997

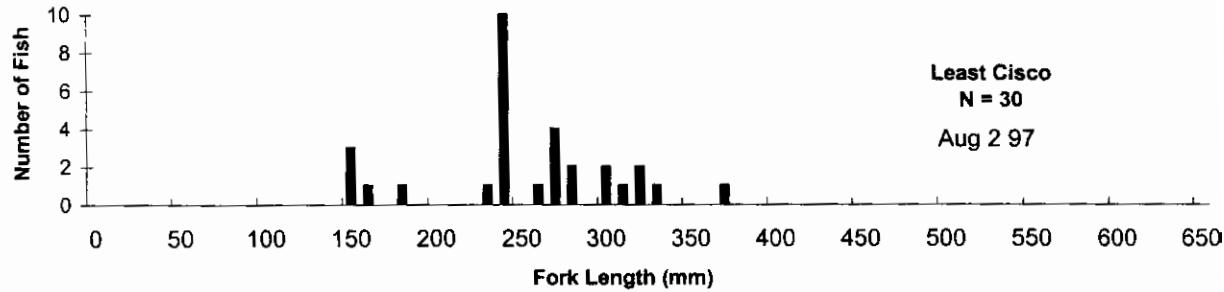


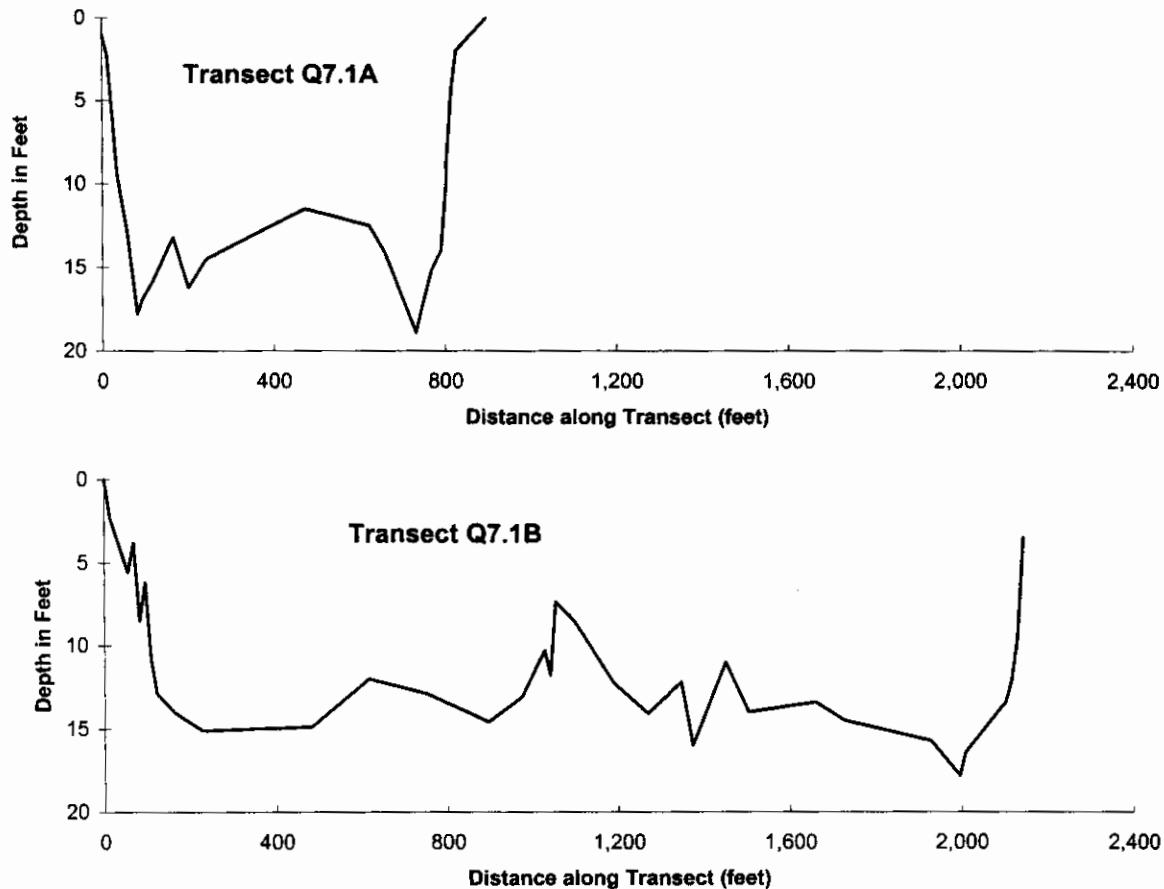
Lake Q7.1

Other Names: M9709
Location: 70°23.13'N 150°53.80'W
USGS Quad Sheet: Harrison Bay B-2: T12N R5E, Sect 21
Habitat: Perched Lake (Infrequent Flooding)
Area: 65 acres
Maximum Depth: 18.9 feet
Active Outlet: No
Spec. Conductance: 302 $\mu\text{S}/\text{cm}$
pH: 7.8
Calculated Volume: 131.2 million gallons
Permittable Volume: 12.4 million gallons

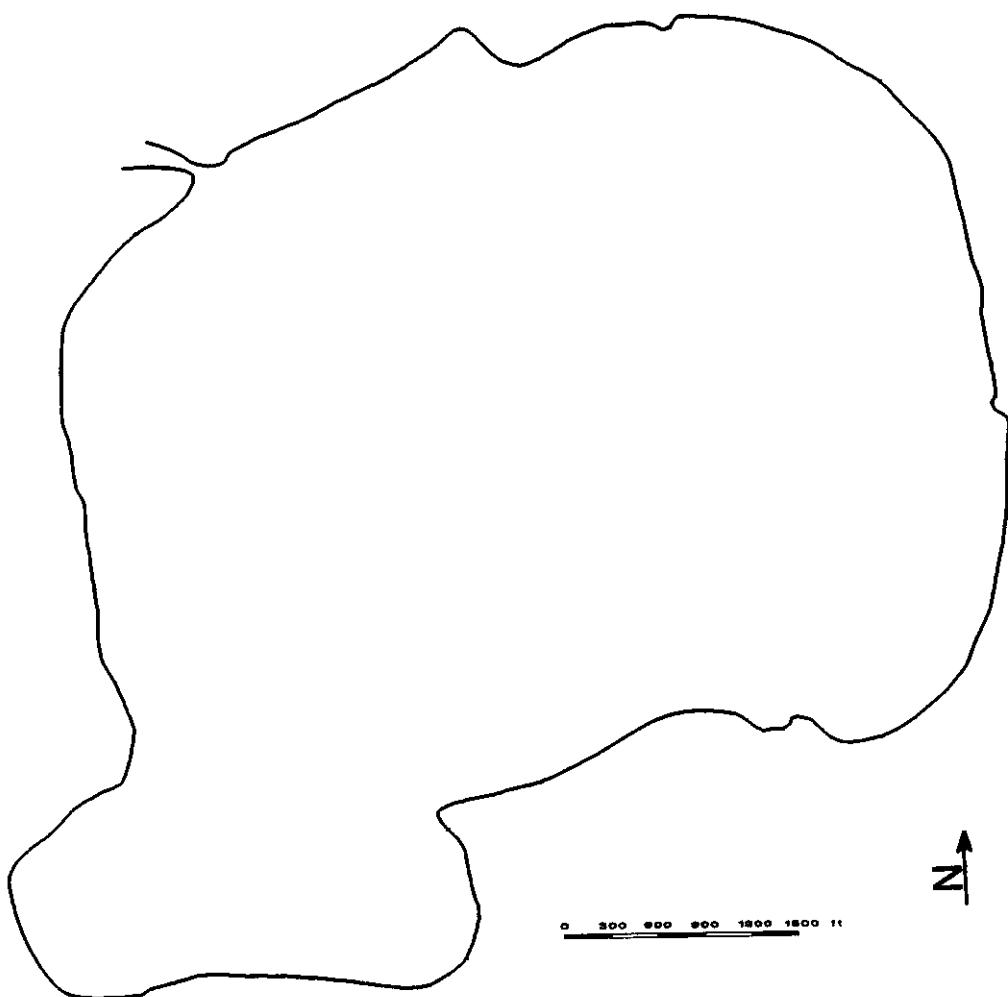
Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|-------------|----------|-------------------|-------------|---------------|---------------------|
| Gillnet | Aug 2 97 | 6.5 | Least cisco | 30 | 153-371 |
| Minnow Trap | Aug 2 97 | 12.3 | None | 0 | |





Q8.2
(MC7914)
70°23.97'N 150°48.27'W



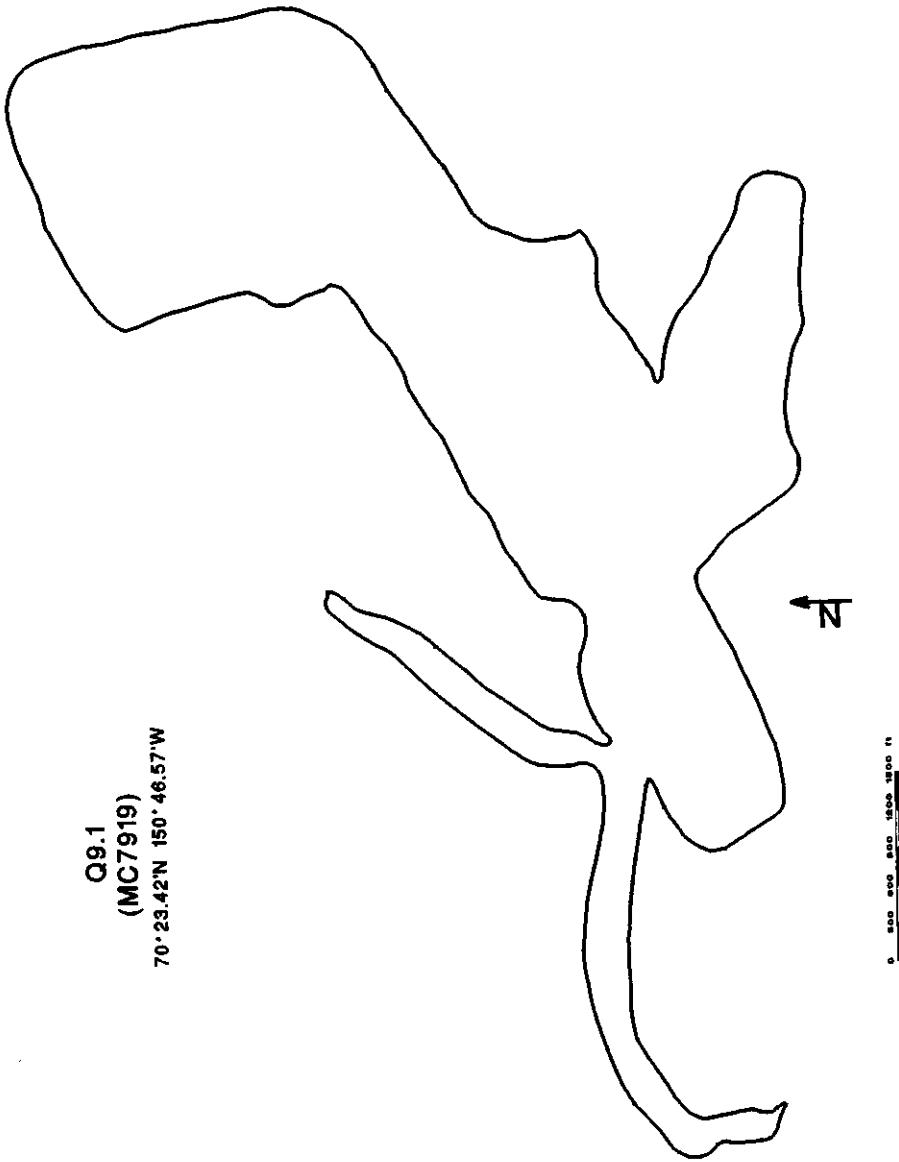
Lake Q8.2

Other Names: MC7914; L9106
Location: 70°23.97'N 150°48.27'W
USGS Quad Sheet: Harrison Bay B-2: T12N R5E, Sect 14
Habitat: Tapped Lake
Area: 685 acres
Maximum Depth: 6.5 feet
Active Outlet: Yes
Calculated Volume: 478.7 million gallons
Permittable Volume: 0.0 million gallons

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|----------|----------|-------------------|------------------|------------------|---------------------|
| Gill Net | Sep 8 79 | 65.3 | Broad whitefish | 41 | 85-300 |
| | | | Least cisco | 59 | 87-372 |
| | | | Arctic cisco | 1 | 195 |
| | | | Rainbow smelt | 8 | 103-280 |
| | | | Saffron cod | 1 | |
| | | | Fourhorn sculpin | 1 | |

Source of 1979 data: McElderry & Craig 1981



Q9.1
(IMC7919)
70°23.42'N 150°46.57'W

Lake Q9.1

Other Names: MC7919
Location: 70°23.42'N 150°46.57'W
USGS Quad Sheet: Harrison Bay B-2: T12N R5E, Sect 13
Habitat: Tapped Lake
Area: 348 acres
Maximum Depth: ? feet
Active Outlet: Yes
Calculated Volume: million gallons
Permittable Volume: million gallons

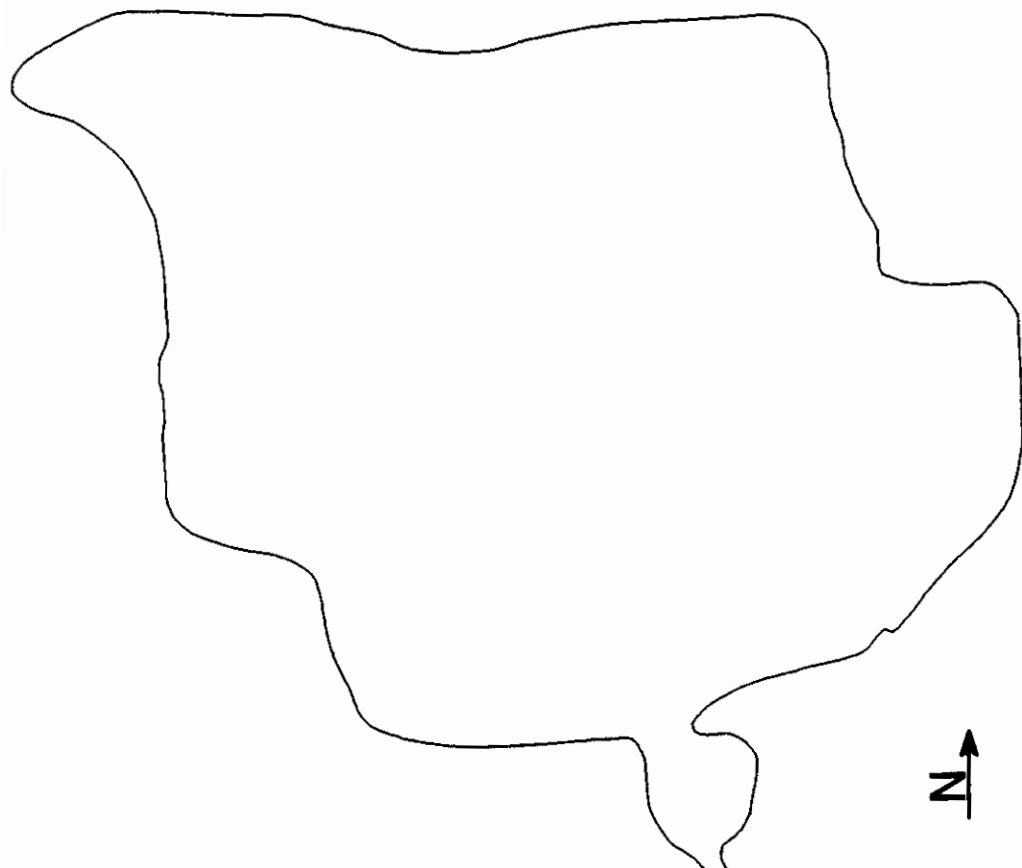
Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|----------|----------|-------------------|-----------------|------------------|---------------------|
| Gill Net | Sep 9 79 | 15.0 | Broad whitefish | 1 | 157 |
| | | | Unidentified | 2 | |

Source of 1979 data: McElderry & Craig 1981

Q10.2
(M9311)

70°23.13'N 150°42.67'W



0 300 600 900 1200 1500 ft

Lake Q10.2

Other Names: M9311
Location: 70°23.13'N 150°42.67'W
USGS Quad Sheet: Harrison Bay B-2: T12N R6E, Sect 19
Habitat: Perched Lake (Frequent Flooding)
Area: 83 acres
Maximum Depth: 9 feet
Active Outlet: No
Calculated Volume: 80.5 million gallons
Permittable Volume: 2.7 million gallons

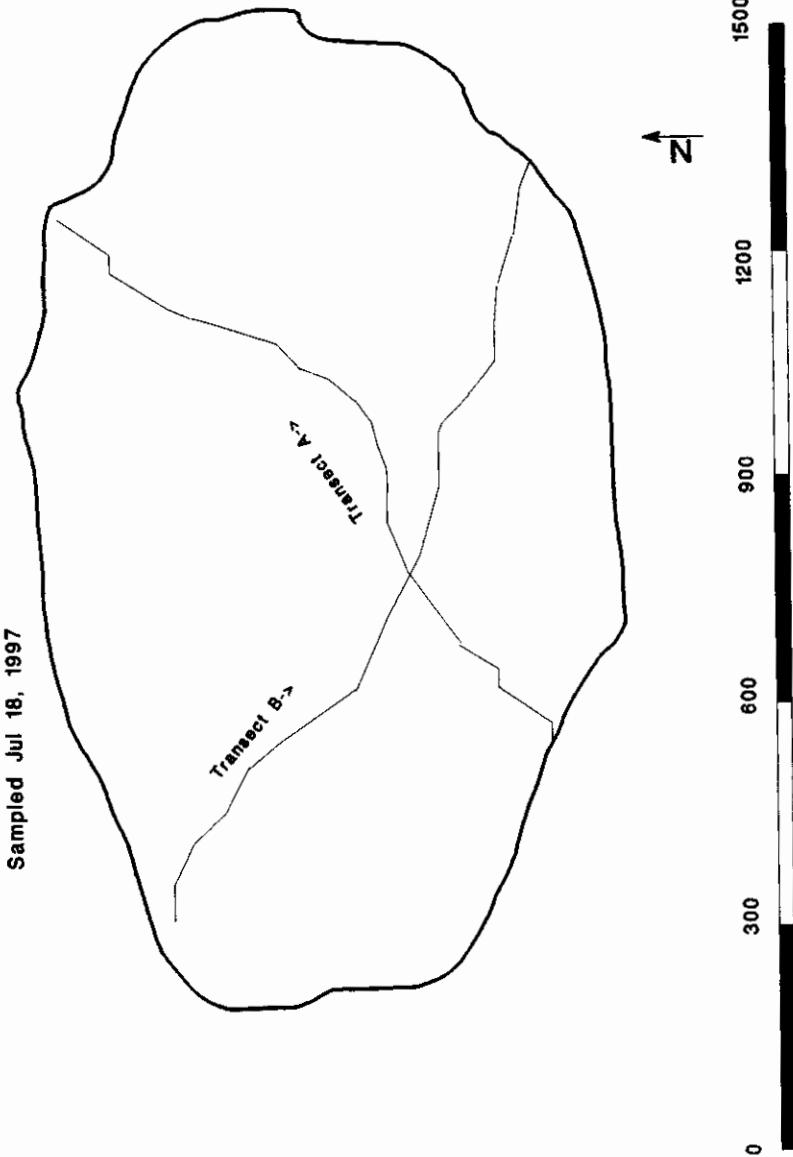
Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|----------|----------|-------------------|------------------|---------------|---------------------|
| Gill Net | Nov 4 93 | 19.3 | Arctic cisco | 1 | 154 |
| | | | Alaska blackfish | 1 | 92 |

| Salinity Profile: | | |
|-------------------|--------------|-------------------|
| | Depth (m) | Salinity (ppt) |
| Nov 3 93 | 0.0 | 2.1 |
| | 0.5 | 2.1 |
| | 1.0 | 2.2 |
| | 1.5 | 2.2 |
| | 2.0 | 2.2 |
| | 2.5 | 2.2 |
| | 3.0 | 2.2 |

R4.1
(M9703)
70°22'50"N 151°02'10"W

Sampled Jul 18, 1997



Lake R4.1

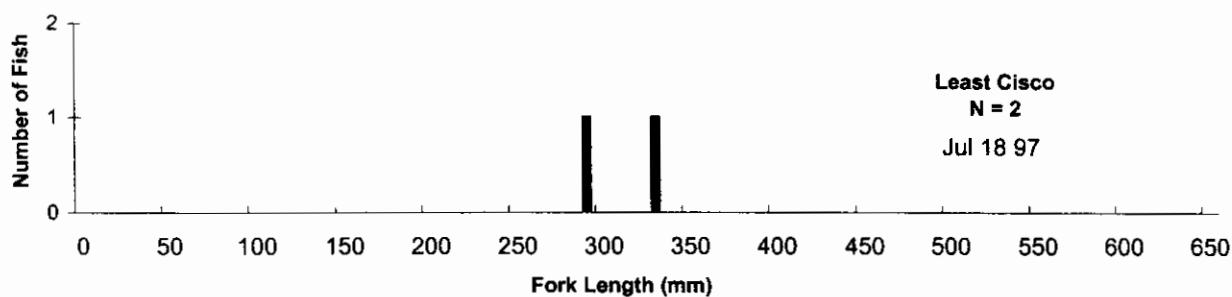
Other Names: M9703
Location: 70°22.50'N 151° 2.10'W
USGS Quad Sheet: Harrison Bay B-2: T12N R4E, Sect 23
Habitat: Perched Lake (Infrequent Flooding)
Area: 17 acres
Maximum Depth: 32.8 feet
Active Outlet: No
Spec. Conductance: 177 $\mu\text{S}/\text{cm}$
Calculated Volume: 60.2 million gallons
Permittable Volume: 7.1 million gallons

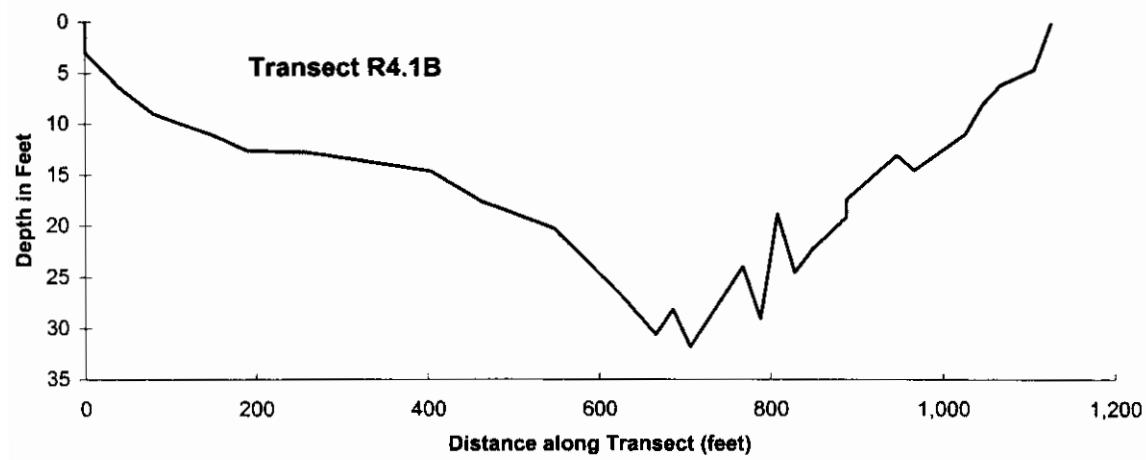
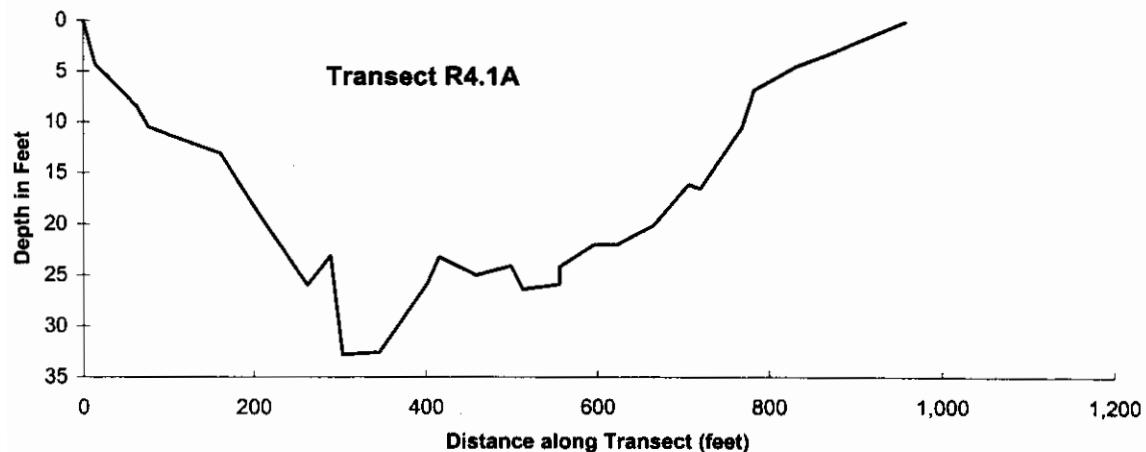
Water Quality:

| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------|----------------|---------------|------------------|----------------|--|-------------------------------|------------|
| 1997 | 42 | 43.9 | 5.04 | 15.6 | 59.7 | 82 | J. Lobdell |

Catch Record:

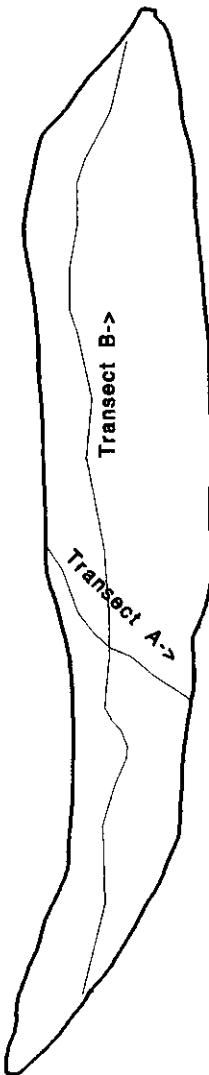
| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|-------------|-----------|----------------|-------------|---------------|------------------|
| Gillnet | Jul 18 97 | 6.6 | Least cisco | 2 | 298-330 |
| Minnow Trap | Jul 18 97 | 12.7 | None | 0 | |





R4.2
(M9704)
70°22.92'N 151°02.25'W

Sampled Jul 19, 1997



0 300 600 900 1200 1500 ft



A scale bar at the bottom of the map, consisting of a horizontal line with tick marks at 0, 300, 600, 900, 1200, and 1500 feet.

Lake R4.2

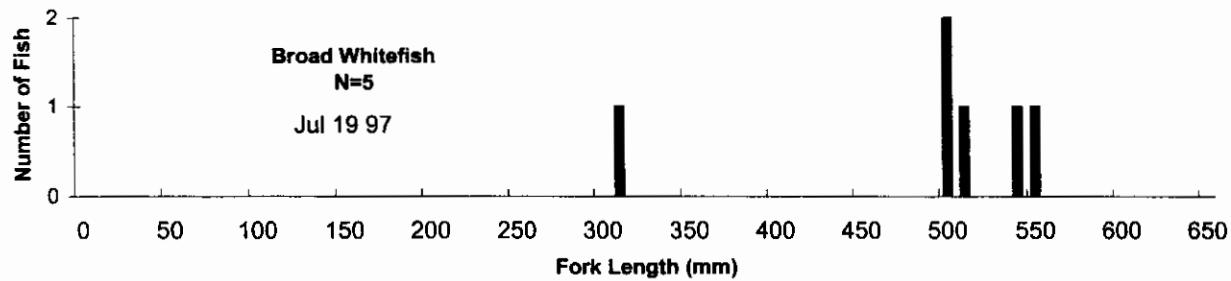
Other Names: M9704
Location: 70°22.92'N 151° 2.25'W
USGS Quad Sheet: Harrison Bay B-2: T12N R4E, Sect 23
Habitat: Perched Lake (Infrequent Flooding)
Area: 11 acres
Maximum Depth: 11.6 feet
Active Outlet: No
Spec. Conductance: 177 $\mu\text{S}/\text{cm}$
Calculated Volume: 13.8 million gallons
Permittable Volume: 0.8 million gallons

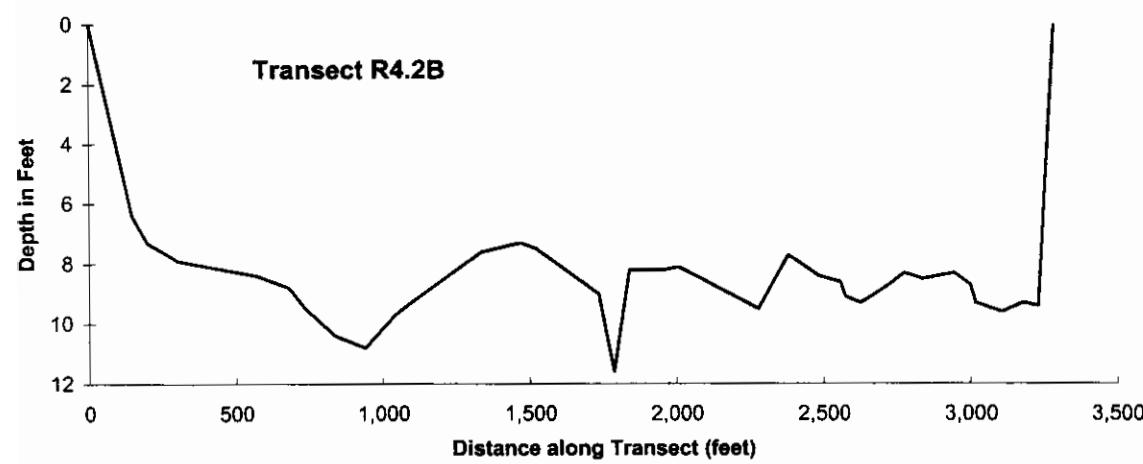
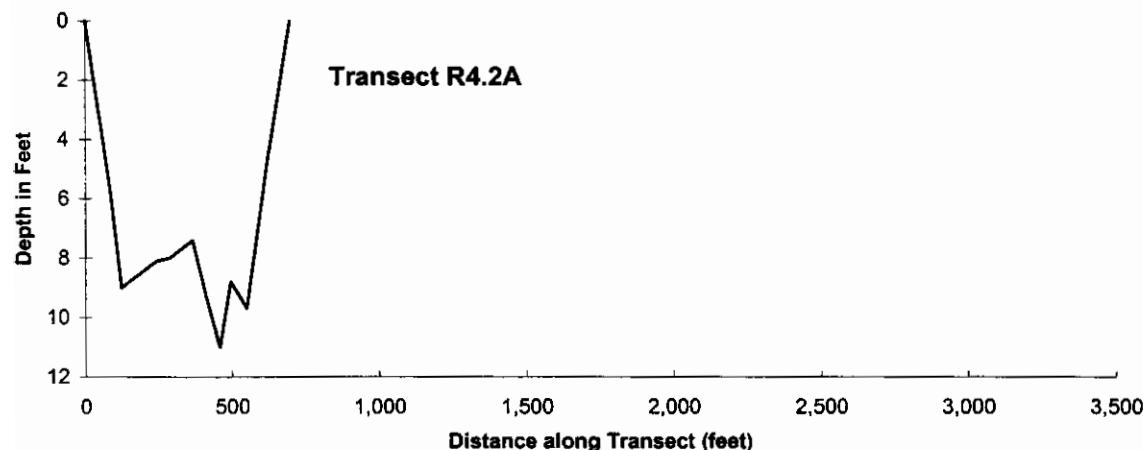
Water Quality:

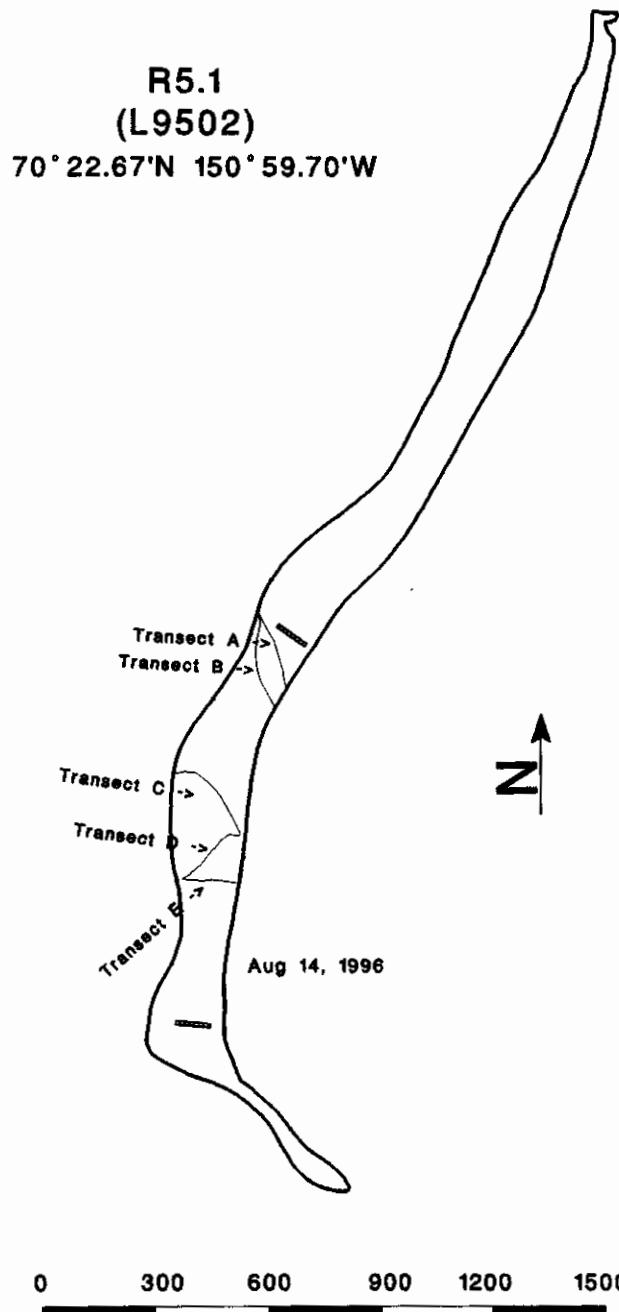
| Year of Test | Chloride (mg/l) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------|-----------------|---------------|------------------|----------------|--|-------------------------------|------------|
| 1997 | 42 | 43.9 | 5.04 | 15.6 | 59.7 | 82 | J. Lobdell |

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|-------------|-----------|----------------|--------------------|---------------|------------------|
| Gillnet | Jul 19 97 | 10.8 | Broad whitefish | 5 | 535-573 |
| Minnow Trap | Jul 19 97 | 16.3 | 9spine stickleback | 173 | |







Lake R5.1

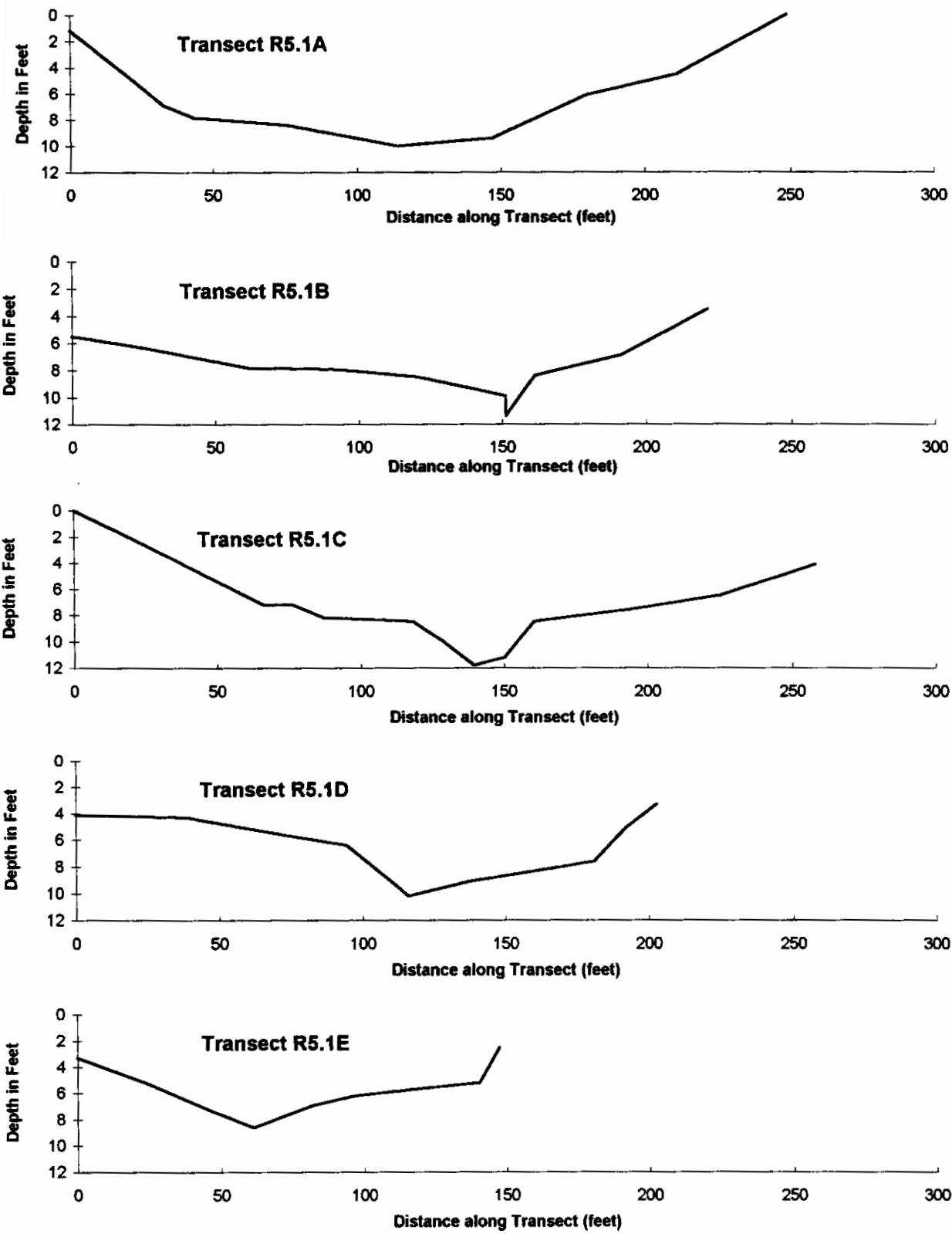
Other Names: L9502
Location: 70°22.67'N 150°59.70'W
USGS Quad Sheet: Harrison Bay B-2: T12N R4E, Sect 24
Habitat: Perched Lake (Infrequent Flooding)
Area: 10 acres
Maximum Depth: 12.0 feet
Active Outlet: No
Spec. Conductance: 216 $\mu\text{S}/\text{cm}$
Calculated Volume: 13.5 million gallons
Permittable Volume: 0.8 million gallons

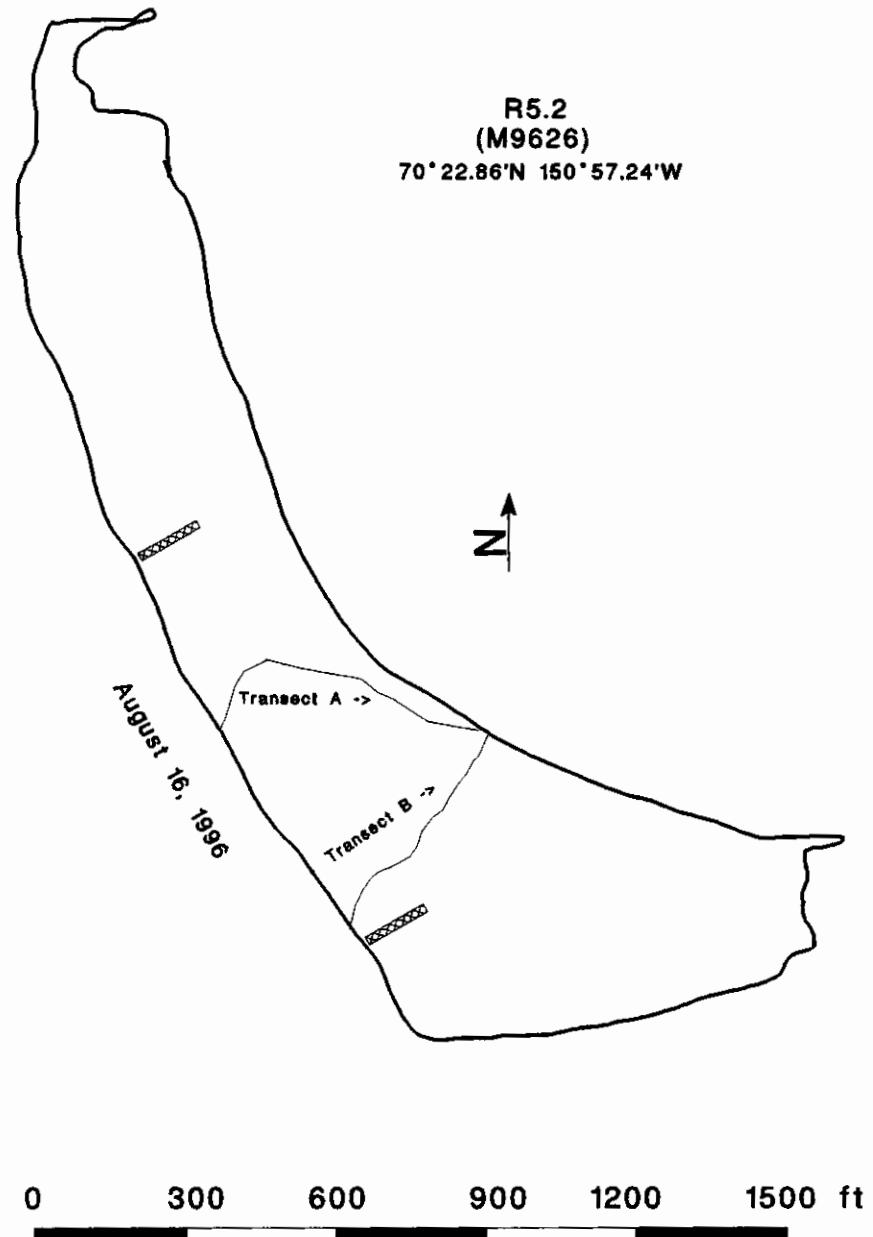
Water Quality:

| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------------|-------------------|------------------|---------------------|-------------------|---|--|------------|
| 1996 | 38 | 33.0 | 3.9 | 6 | 31 | 79 | J. Lobdell |

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|----------|-----------|-------------------|---------|------------------|
| Fyke Net | Aug 14 96 | 11.0 | None | 0 |



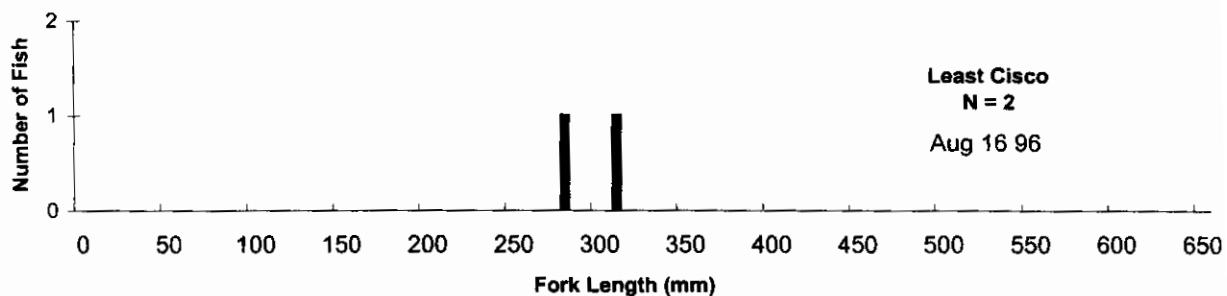


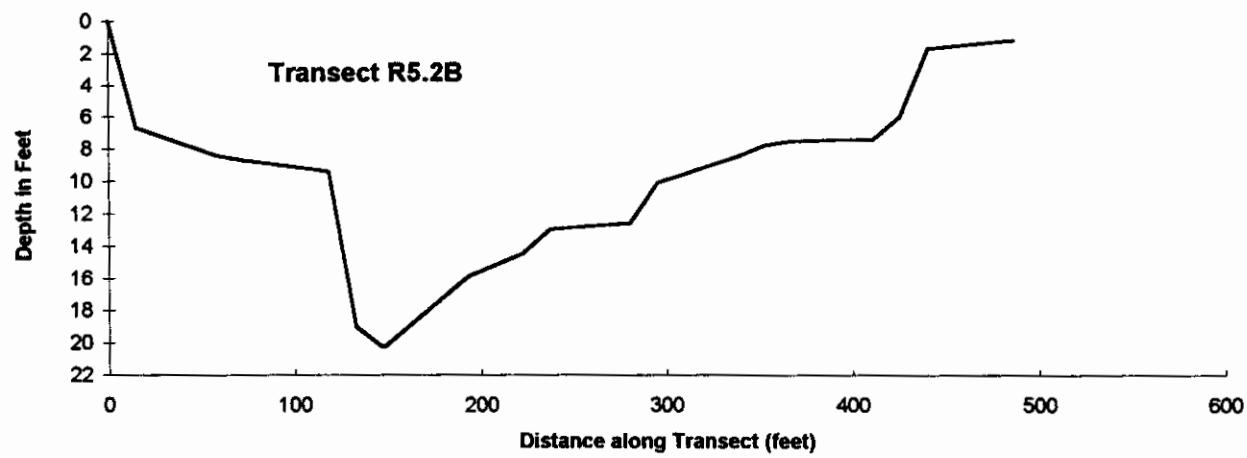
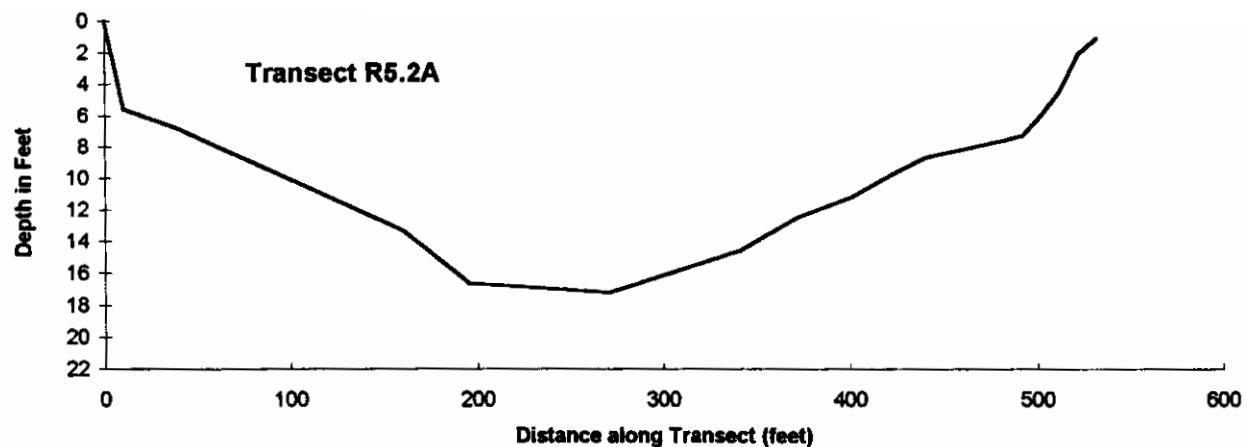
Lake R5.2

Other Names: M9626
Location: 70°22.86'N 150°57.24'W
USGS Quad Sheet: Harrison Bay B-2: T12N R5E, Sect 19
Habitat: Perched Lake (Infrequent Flooding)
Area: 20 acres
Maximum Depth: 20.3 feet
Active Outlet: No
Spec. Conductance: 246 $\mu\text{S}/\text{cm}$
Calculated Volume: 43.8 million gallons
Permittable Volume: 4.3 million gallons

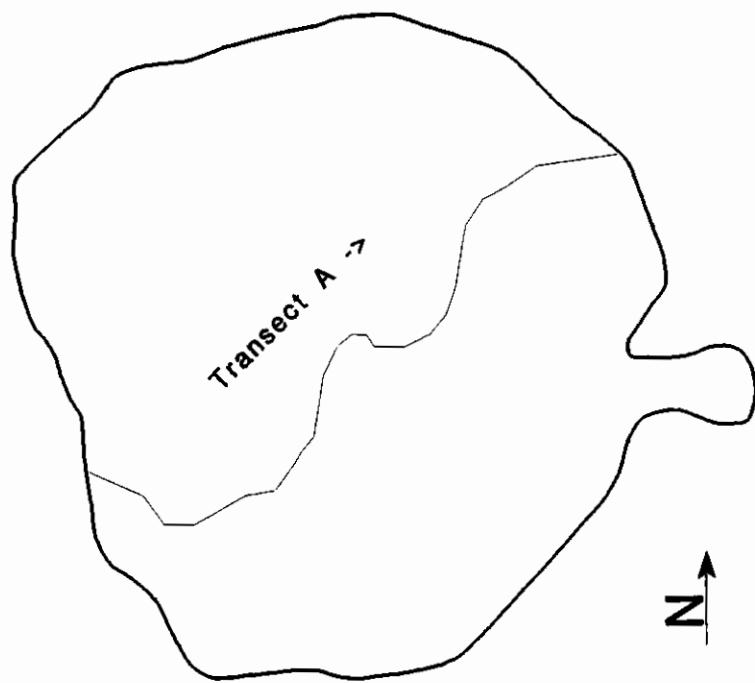
Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|----------|-----------|-------------------|-------------|------------------|---------------------|
| Gill Net | Aug 16 96 | 8.0 | Least cisco | 2 | 280, 312 |





R6.1
(M9522)
70° 22.19'N 150° 55.21'W



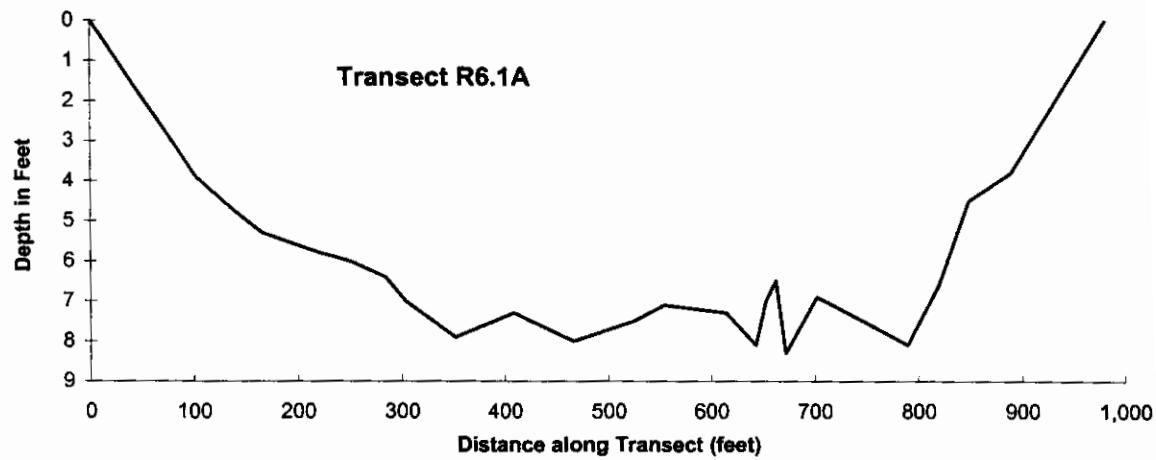
0 300 600 900 1200 1500 ft

Lake R6.1

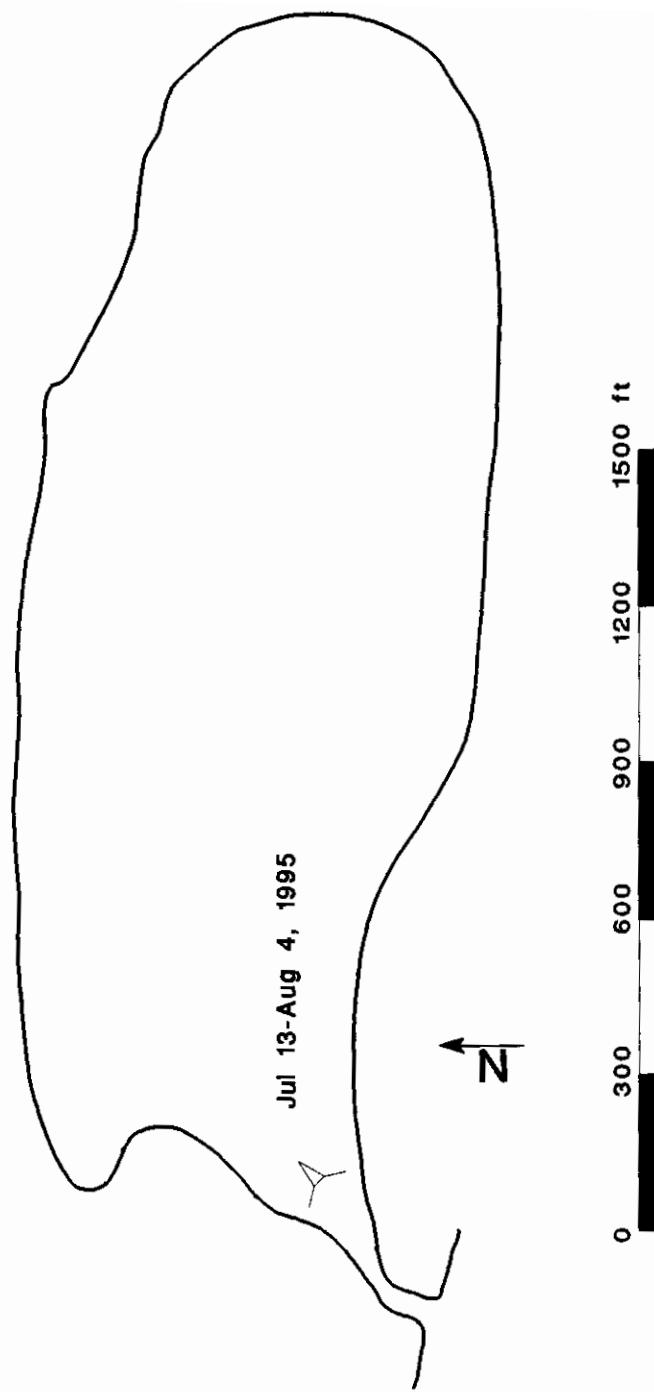
Other Names: M9522
Location: 70°22.19'N 150°55.21'W
USGS Quad Sheet: Harrison Bay B-2: T12N R5E, Sect 29
Habitat: Perched Lake (Frequent Flooding)
Area: 20 acres
Maximum Depth: 9.0 feet
Active Outlet: No
Spec. Conductance: 4,290 $\mu\text{S}/\text{cm}$
Calculated Volume: 19.3 million gallons
Permittable Volume: No fish concern

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|----------|----------|-------------------|---------|------------------|
| Gill Net | Aug 3 96 | 11.2 | None | 0 |



R6.2
(M9523)
70°22.43'N 150°56.56'W

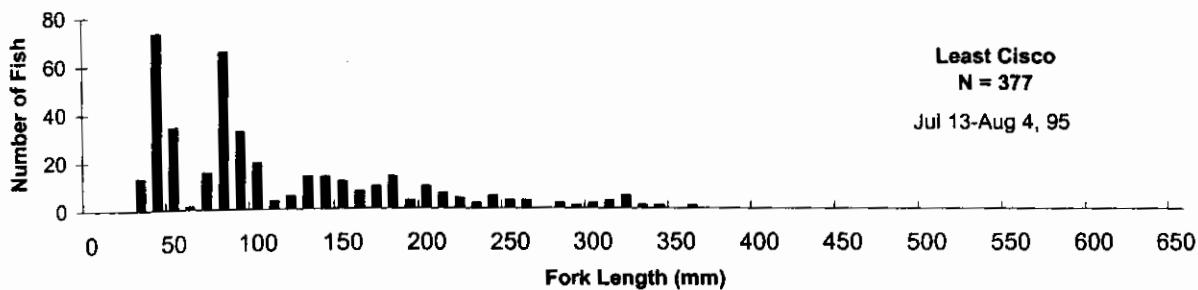
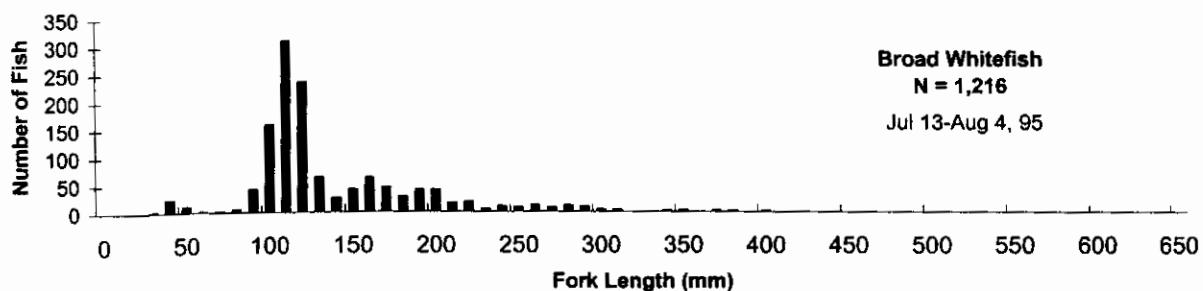


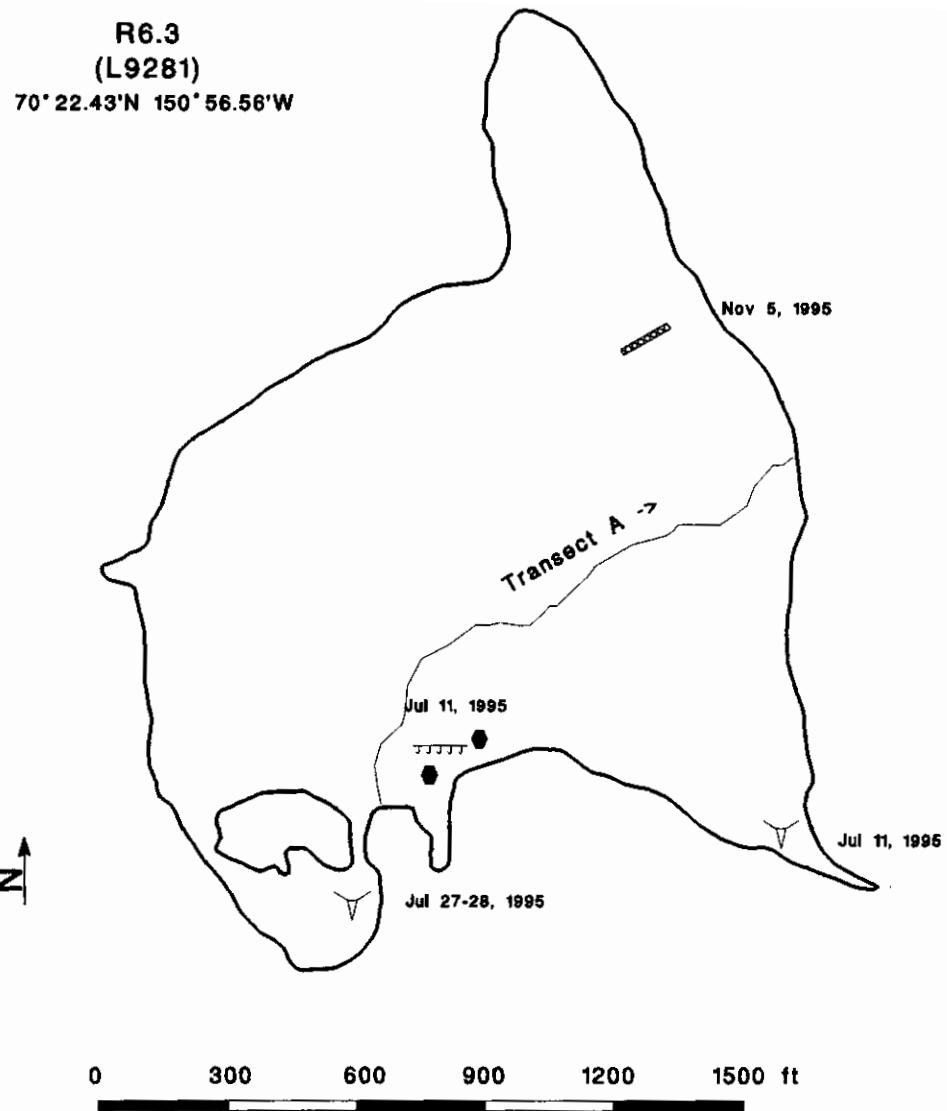
Lake R6.2

Other Names: M9523
Location: 70°22.43'N 150°56.56'W
USGS Quad Sheet: Harrison Bay B-2: T12N R5E, Sect 29
Habitat: Tapped Lake
Area: 26 acres
Maximum Depth: ? feet
Active Outlet: Yes
Calculated Volume: ? million gallons
Permittable Volume: ? million gallons

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|----------|------------------|-------------------|--------------------|---------------|---------------------|
| Fyke Net | Jul 13-Aug 4, 95 | 541.2 | Broad whitefish | 1,218 | 35-403 |
| | | | Humpback whitefish | 166 | 79-359 |
| | | | Round whitefish | 367 | 54-275 |
| | | | Least cisco | 478 | 35-365 |
| | | | Arctic grayling | 22 | 80-155 |
| | | | Rainbow smelt | 53 | 30-77 |
| | | | Burbot | 6 | 103-261 |
| | | | Longnose sucker | 22 | 59-215 |
| | | | Fourhorn sculpin | 20 | |
| | | | 9spine stickleback | 176 | |





Lake R6.3

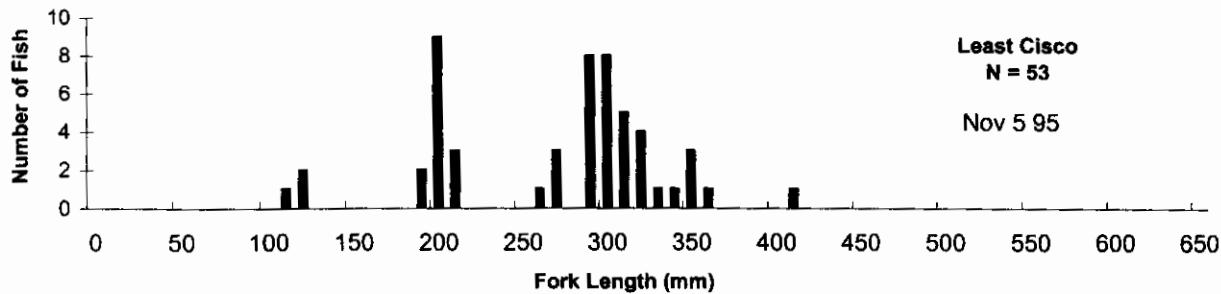
Other Names: L9281
Location: 70°22.43'N 150°56.56'W
USGS Quad Sheet: Harrison Bay B-2: T12N R5E, Sect 20
Habitat: Perched Lake (Infrequent Flooding)
Area: 44 acres
Maximum Depth: 13.5 feet
Active Outlet: No
Spec. Conductance: 346 $\mu\text{S}/\text{cm}$
Calculated Volume: 63.5 million gallons
Permittable Volume: 4.6 million gallons

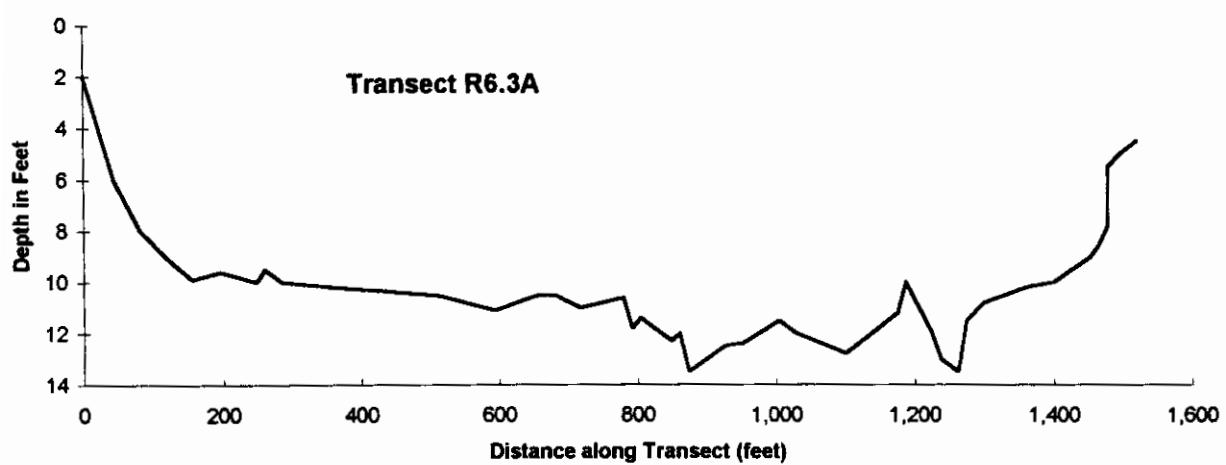
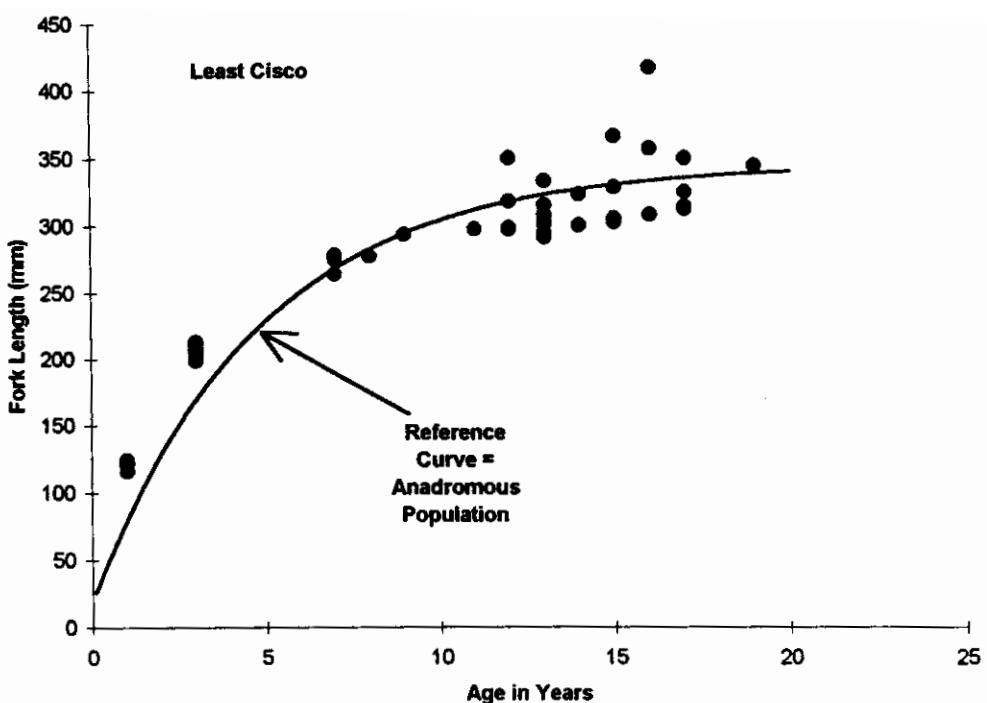
Water Quality:

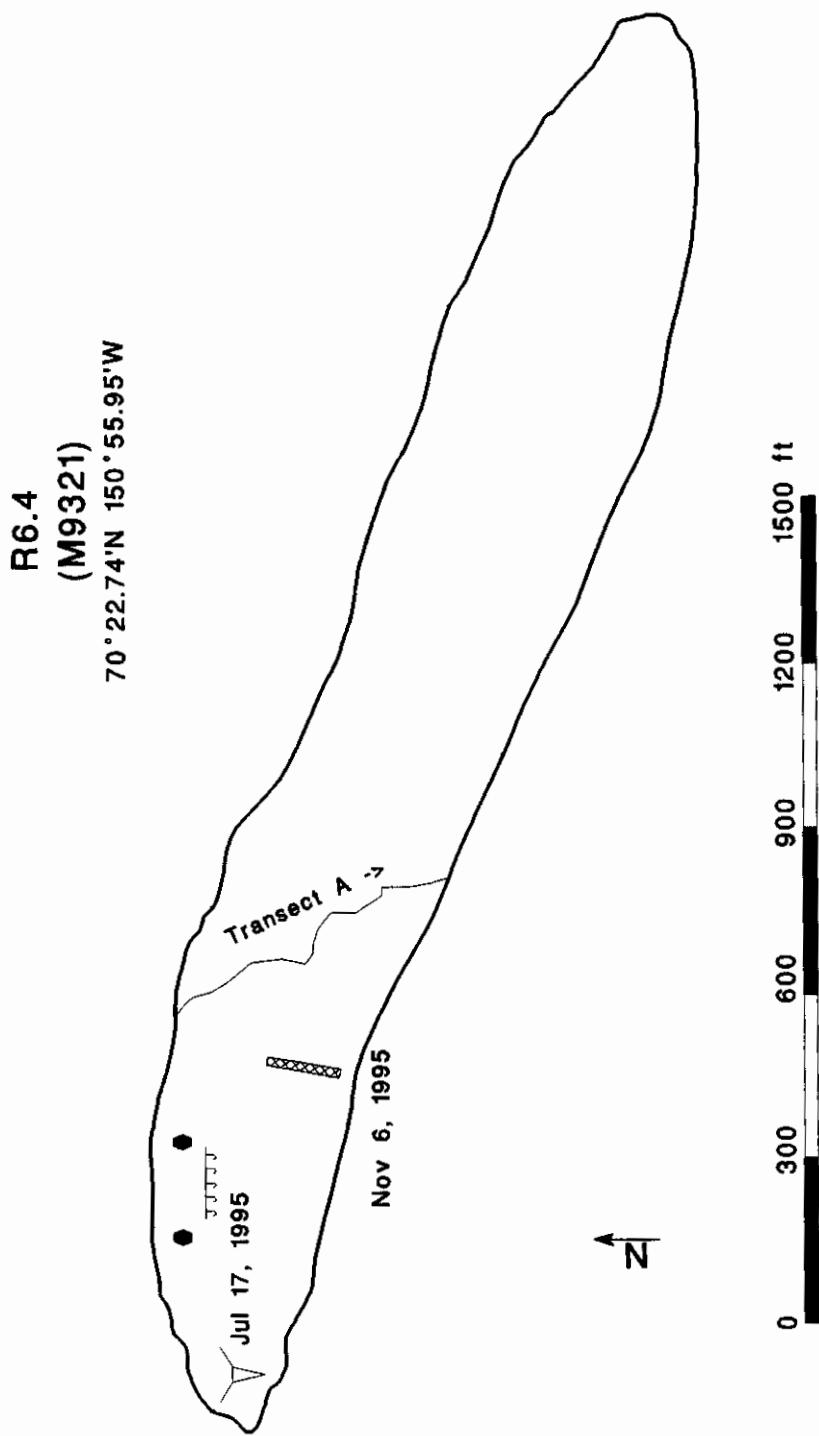
| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------|----------------|---------------|------------------|----------------|--|-------------------------------|------------|
| 1992 | 90 | 3.6 | 8.5 | 11 | 62 | 280 | J. Labdell |

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|-------------|-----------|----------------|--|---------------|---------------------|
| Fyke Net | Jul 11 95 | 25.6 | 9spine stickleback | 560 | |
| Fyke Net | Jul 27 95 | 21.0 | 9spine stickleback | 4 | |
| Fyke Net | Jul 28 95 | 21.1 | 9spine stickleback | 5 | |
| Minnow Trap | Jul 11 95 | 42.4 | Alaska blackfish 9spine stickleback | 1 1 | |
| Set Line | Jul 11 95 | 26.3 | None | 0 | |
| Gill Net | Nov 5 95 | 21.0 | Least cisco Alaska blackfish | 53 2 | 116-417 100, 100 |





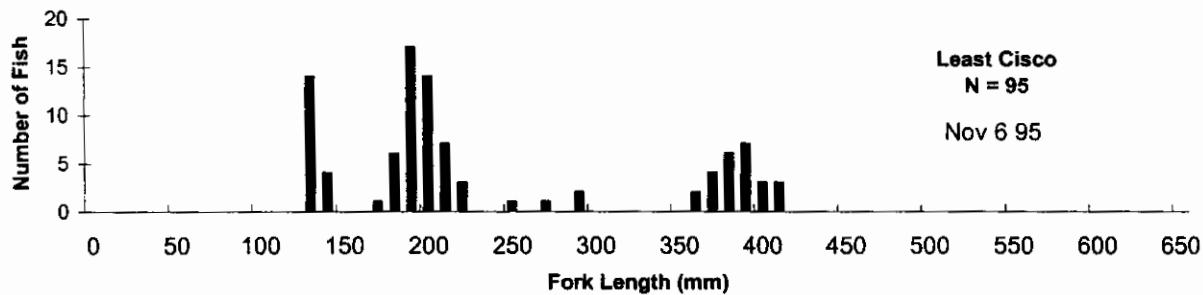


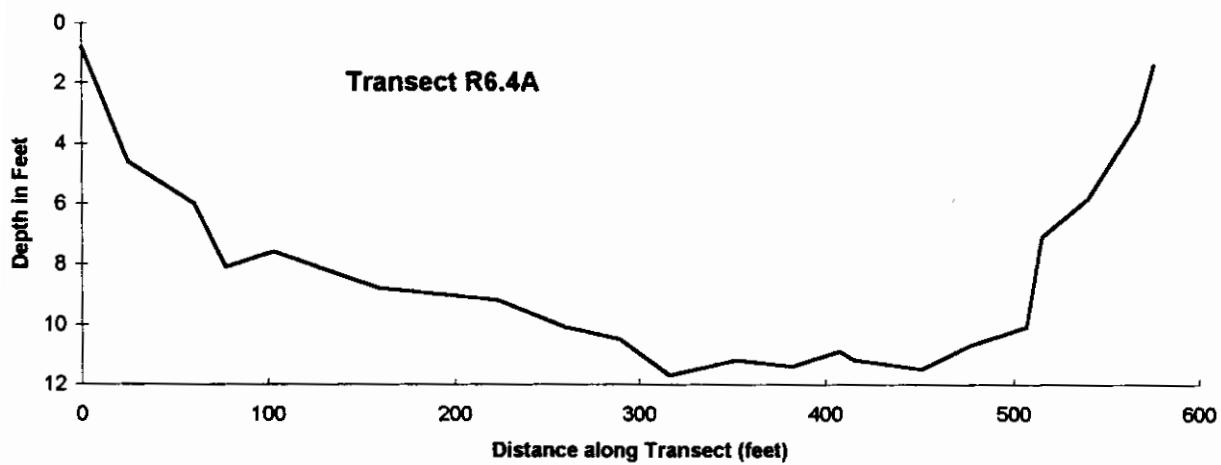
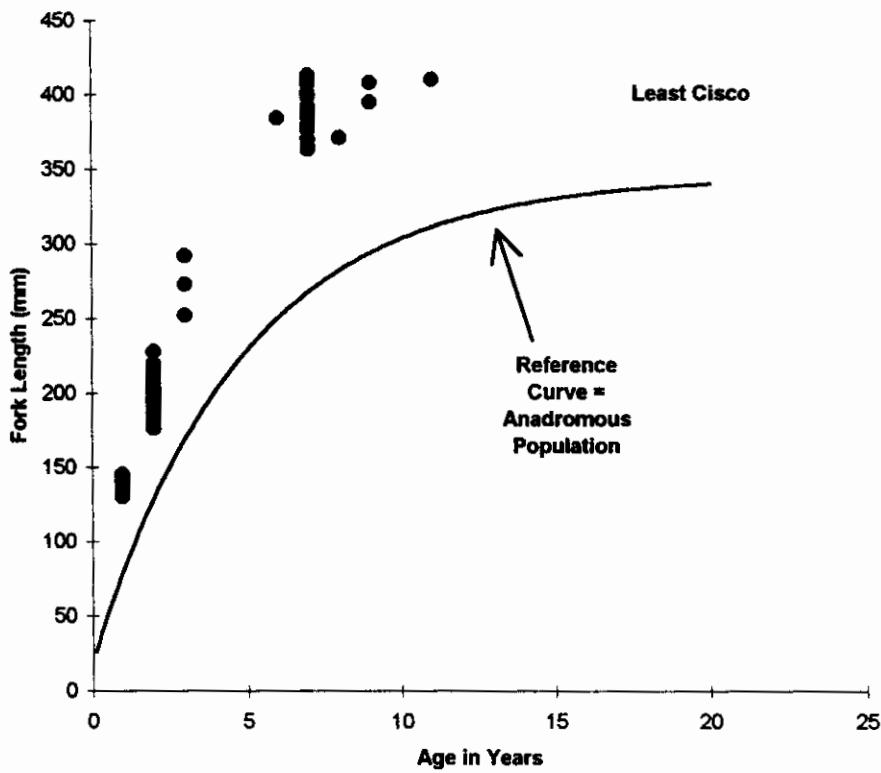
Lake R6.4

Other Names: M9321
Location: 70°22.74'N 150°55.95'W
USGS Quad Sheet: Harrison Bay B-2: T12N R5E, Sect 20
Habitat: Perched Lake (Infrequent Flooding)
Area: 21 acres
Maximum Depth: 11.7 feet
Active Outlet: No
Spec. Conductance: 146 $\mu\text{S}/\text{cm}$
Calculated Volume: 26.2 million gallons
Permittable Volume: 1.6 million gallons

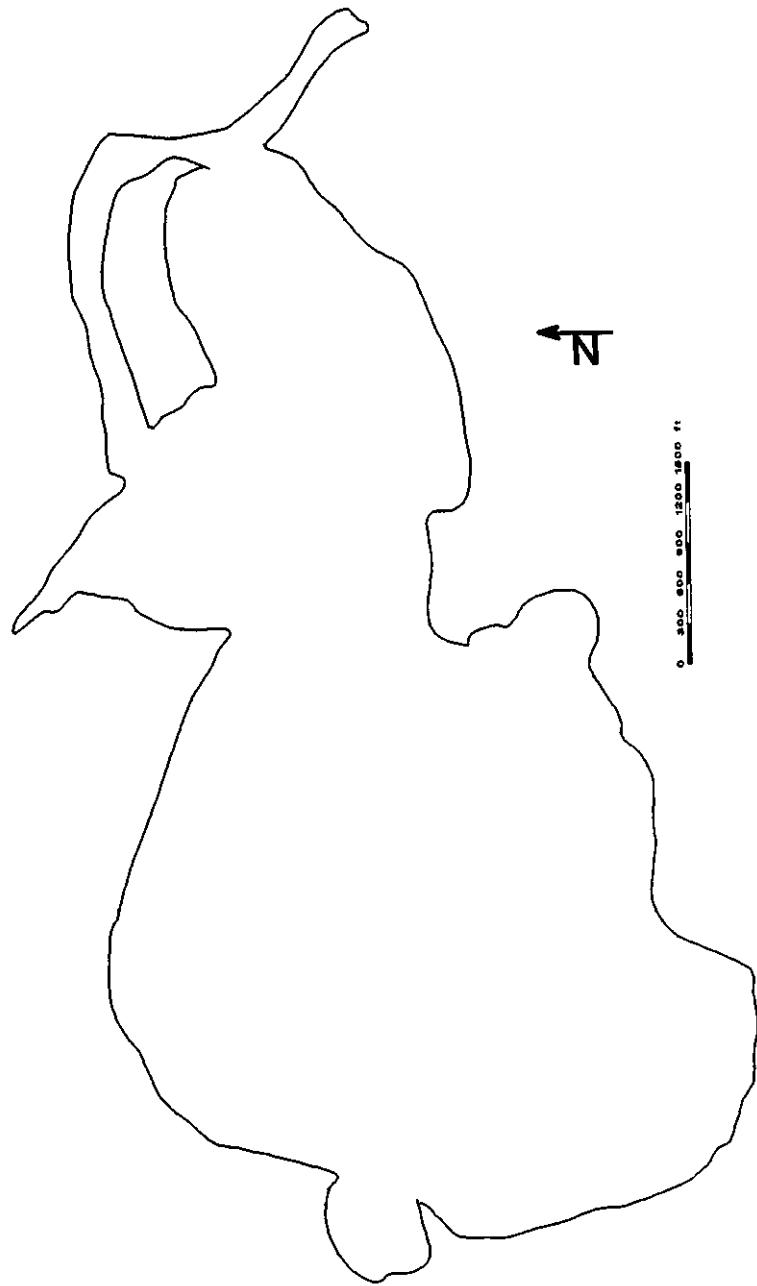
Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|-------------|-----------|-------------------|--------------------|---------------|---------------------|
| Fyke Net | Jul 17 95 | 21.4 | 9spine stickleback | 220 | |
| Minnow Trap | Jul 17 95 | 44.3 | None | 0 | |
| Set Line | Jul 17 95 | 22.1 | None | 0 | |
| Gill Net | Nov 6 95 | 23.1 | Least cisco | 96 | 130-413 |





R8.3
(MC7913)
70°22.59'N 150°50.98'W



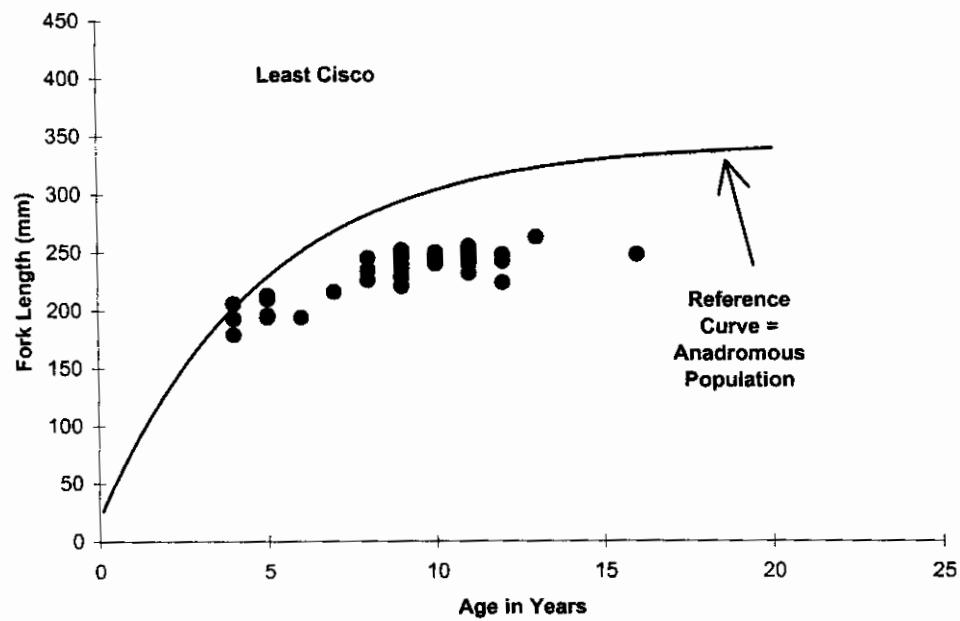
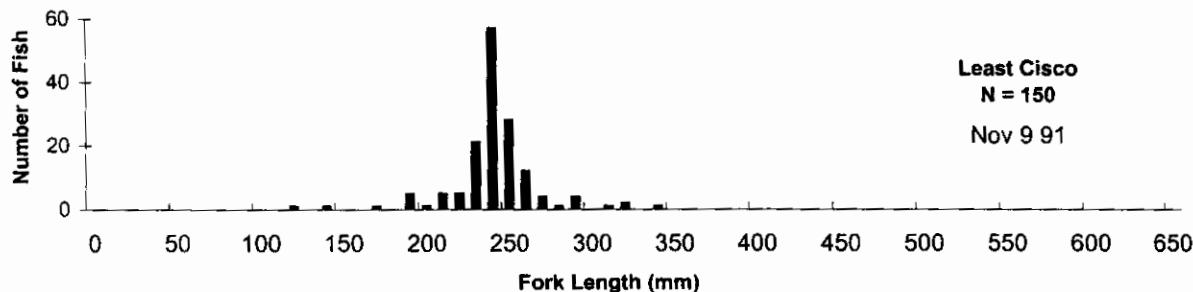
Lake R8.3

Other Names: MC7913; M9111
Location: 70°23'N 150°51'W
USGS Quad Sheet: Harrison Bay B-2; T12N R5E, Sect 22
Habitat: Perched Lake (Infrequent Flooding)
Area: 535 acres
Maximum Depth: 10 feet
Active Outlet: Yes
Calculated Volume: 574.9 million gallons
Permittable Volume: 25.9 million gallons

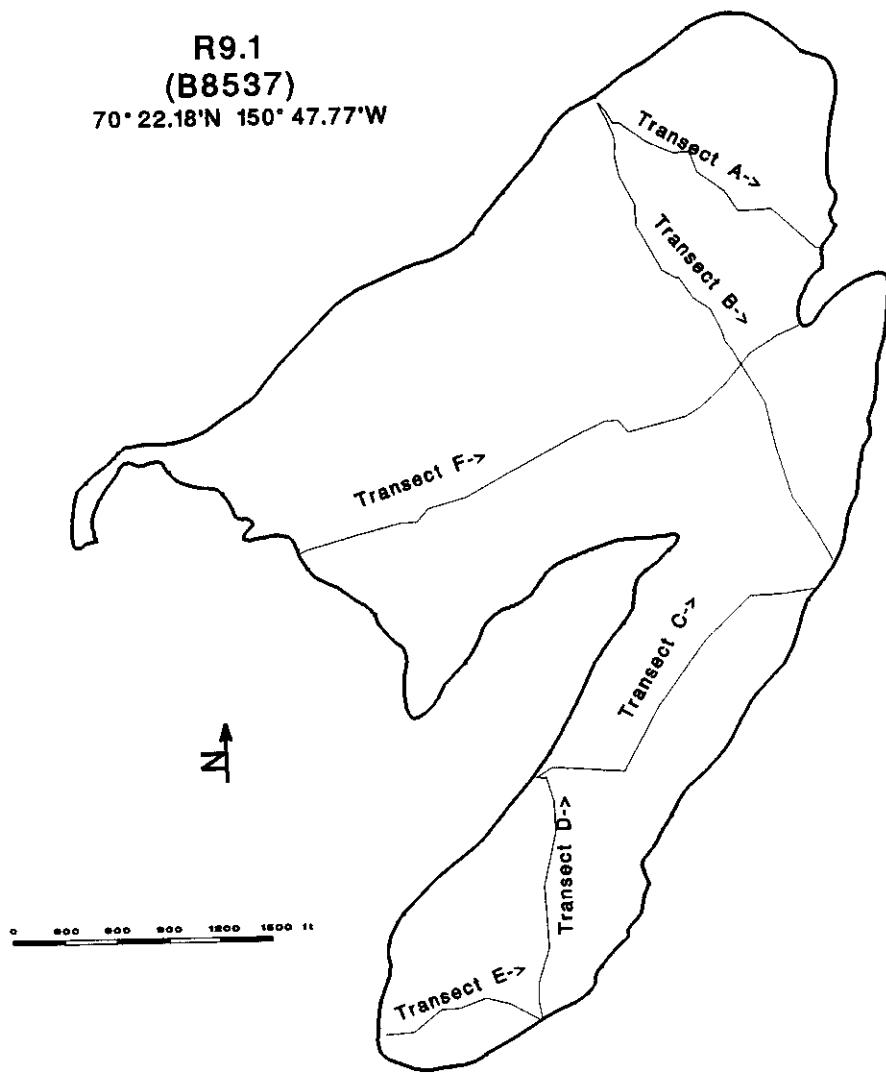
Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|----------|----------|-------------------|-------------|---------------|---------------------|
| Gill Net | Sep 8 79 | 20.8 | Least cisco | 83 | 130-367 |
| | Nov 9 91 | 44.0 | Least cisco | 150 | 125-340 |

Source of 1979 data: McElderry & Craig 1981



R9.1
(B8537)
70° 22.18'N 150° 47.77'W



Lake R9.1

Other Names: B8537; L9350
Location: 70°22.18'N 150°47.77'W
USGS Quad Sheet: Harrison Bay B-2: T12N R5E, Sect 26
Habitat: Perched Lake (Infrequent Flooding)
Area: 255 acres
Maximum Depth: 20.6 feet
Active Outlet: No
Spec. Conductance: 181 µS/cm (1985)
 217 µS/cm (1997)
pH: 8.5 (1985)
 8.1 (1997)
Calculated Volume: 565.7 million gallons
Permittable Volume: 56.0 million gallons

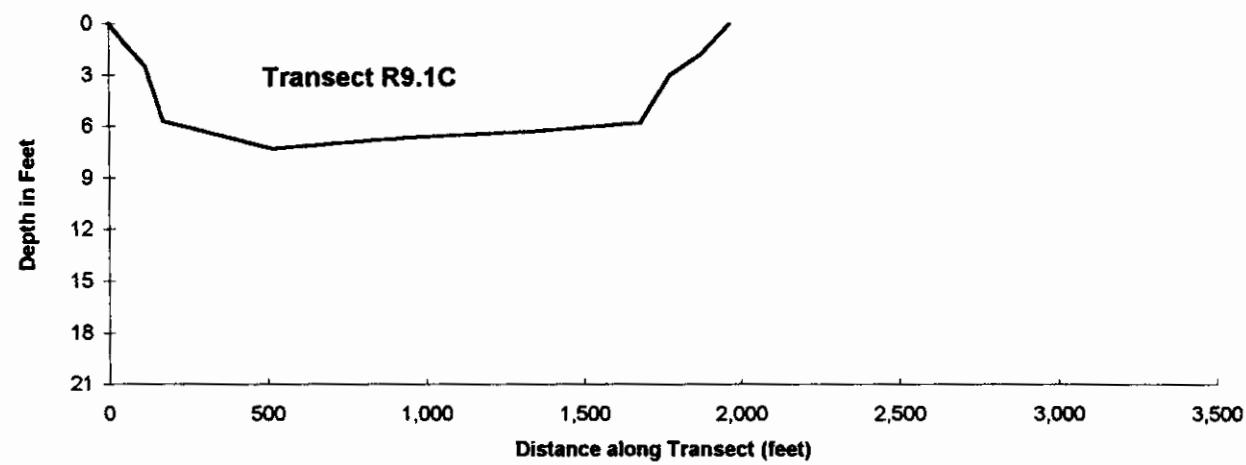
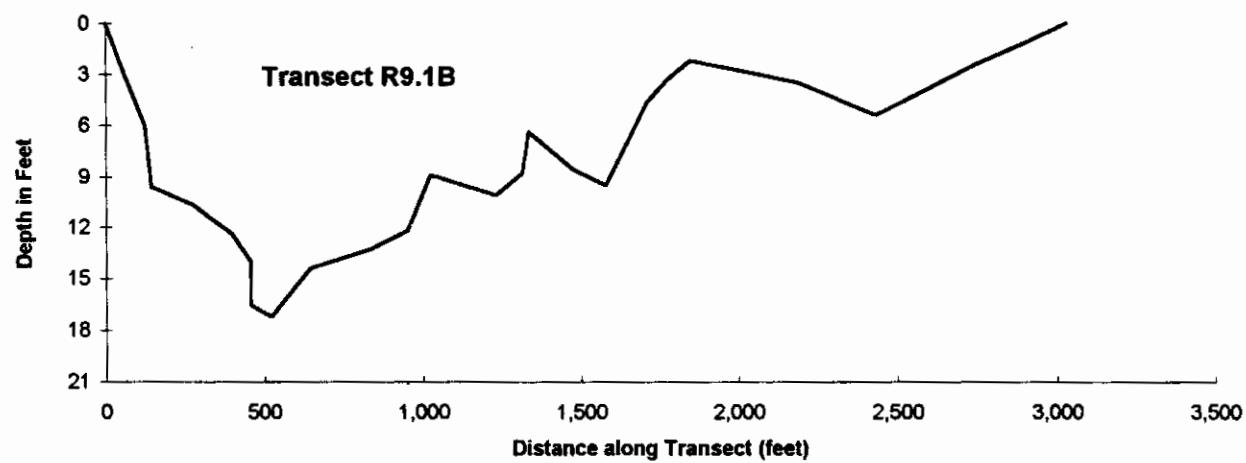
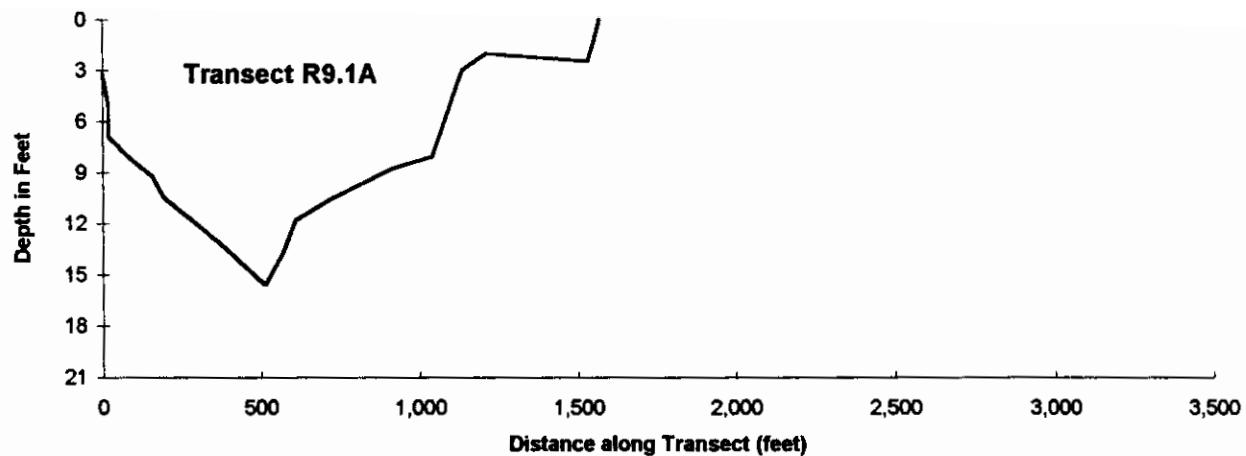
Water Quality:

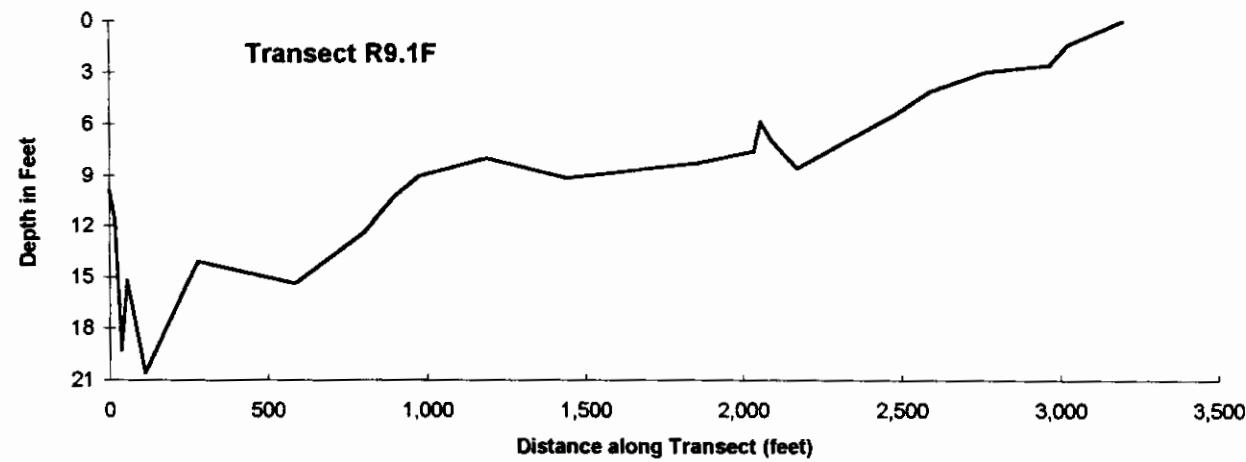
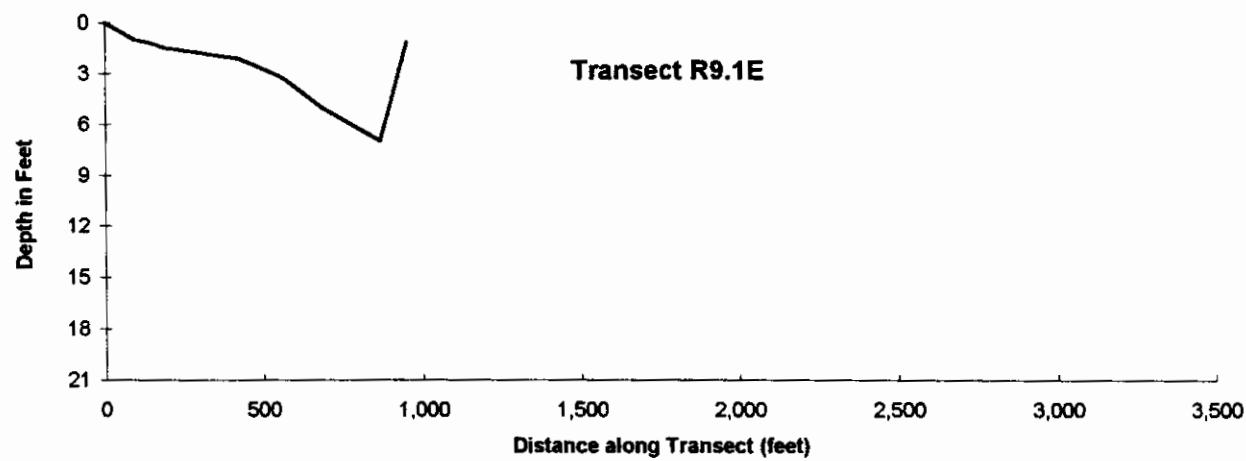
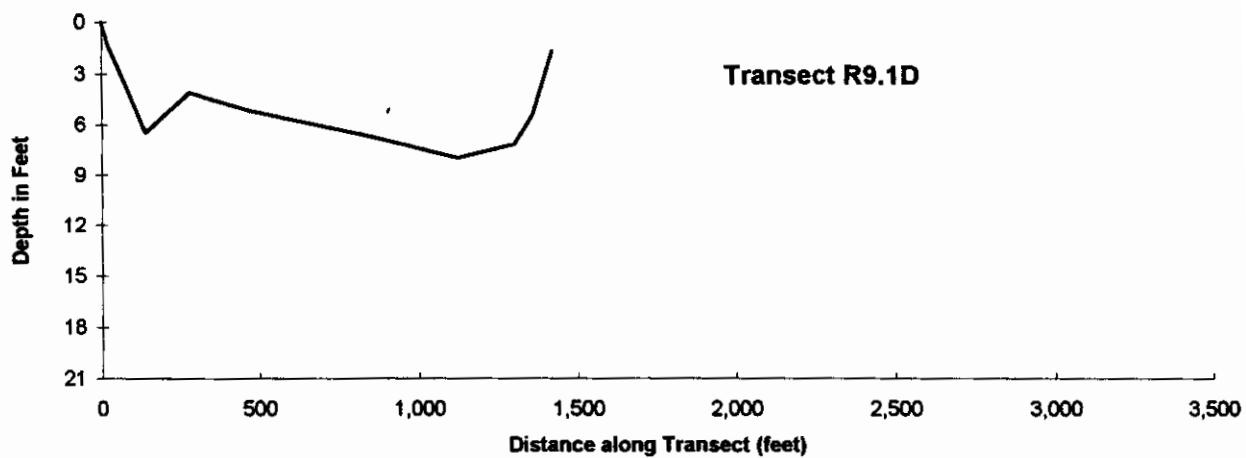
| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------------|-------------------|------------------|---------------------|-------------------|---|--|---------------------|
| 1985 | | | | | 86 | | Bendock & Burr 1986 |
| 1993 | 24 | 8.3 | 6.2 | 16 | 65 | 150 | J. Lobdell |

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|-------------|-----------------|-------------------|--------------------|------------------|
| Gill Net | Jul 16-19, 1985 | ~24 | Least cisco | 0.34/hr |
| Gill Net | Aug 6 97 | 11.0 | None | 0 |
| Minnow Trap | Aug 6 97 | 10.6 | 9spine stickleback | 3 |

Source of 1985 data: Bendock and Burr 1986





R9.2
(L9349)
70°22.03'N 150°45.60'W



0 300 600 900 1200 1500 ft

Lake R9.2

Other Names: L9349; M9310
Location: 70°22.03'N 150°45.60'W
USGS Quad Sheet: Harrison Bay B-2: T12N R5E, Sect 25
Habitat: Perched Lake (Frequent Flooding)
Area: 46 acres
Maximum Depth: 9 feet
Active Outlet: Yes
Spec. Conductance: 175 $\mu\text{S}/\text{cm}$
Calculated Volume: 44.2 million gallons
Permittable Volume: 1.5 million gallons

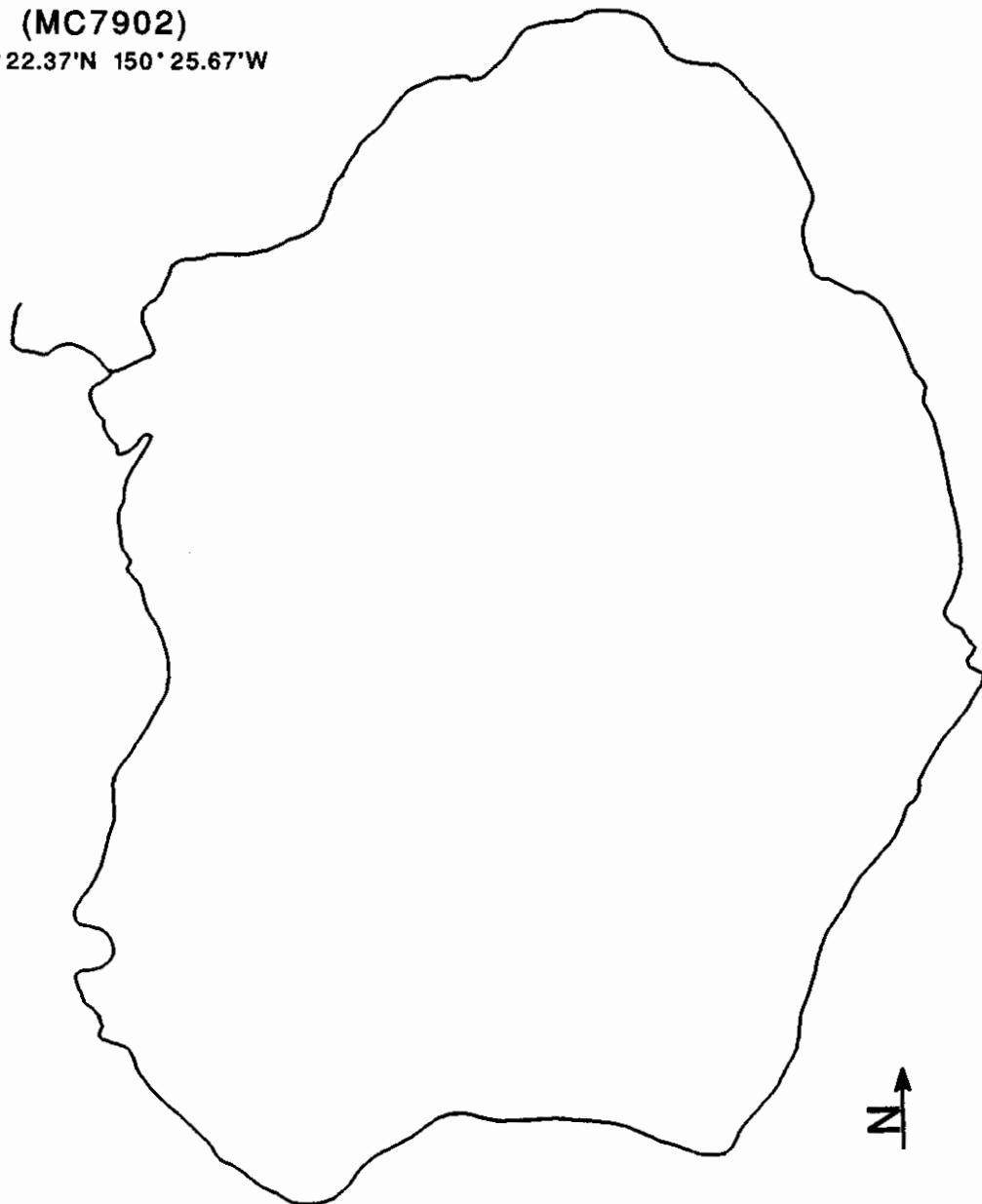
Water Quality:

| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------------|-------------------|------------------|---------------------|-------------------|---|--|------------|
| 1993 | 15 | 7.8 | 2.8 | 7.4 | 30 | 55 | J. Lobdell |

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|-------------|----------|-------------------|------------------|------------------|---------------------|
| Gill Net | Nov 4 93 | 21.7 | Arctic cisco | 1 | 122 |
| | | | Alaska blackfish | 11 | 91-122 |
| Minnow Trap | Nov 4 93 | 21.7 | Alaska blackfish | 1 | 93 |

R16.1
(MC7902)
70°22.37'N 150°25.67'W



0 300 600 900 1200 1500 11

Lake R16.1

Other Names: MC7902; L9112
Location: 70°22.37'N 150°25.67'W
USGS Quad Sheet: Harrison Bay B-1: T12N R7E, Sect 20, 29
Habitat: Drainage Lake
Area: 791 acres
Maximum Depth: 3.0 feet
Active Outlet: No
Calculated Volume: 255.0 million gallons
Permittable Volume: 0.0 million gallons

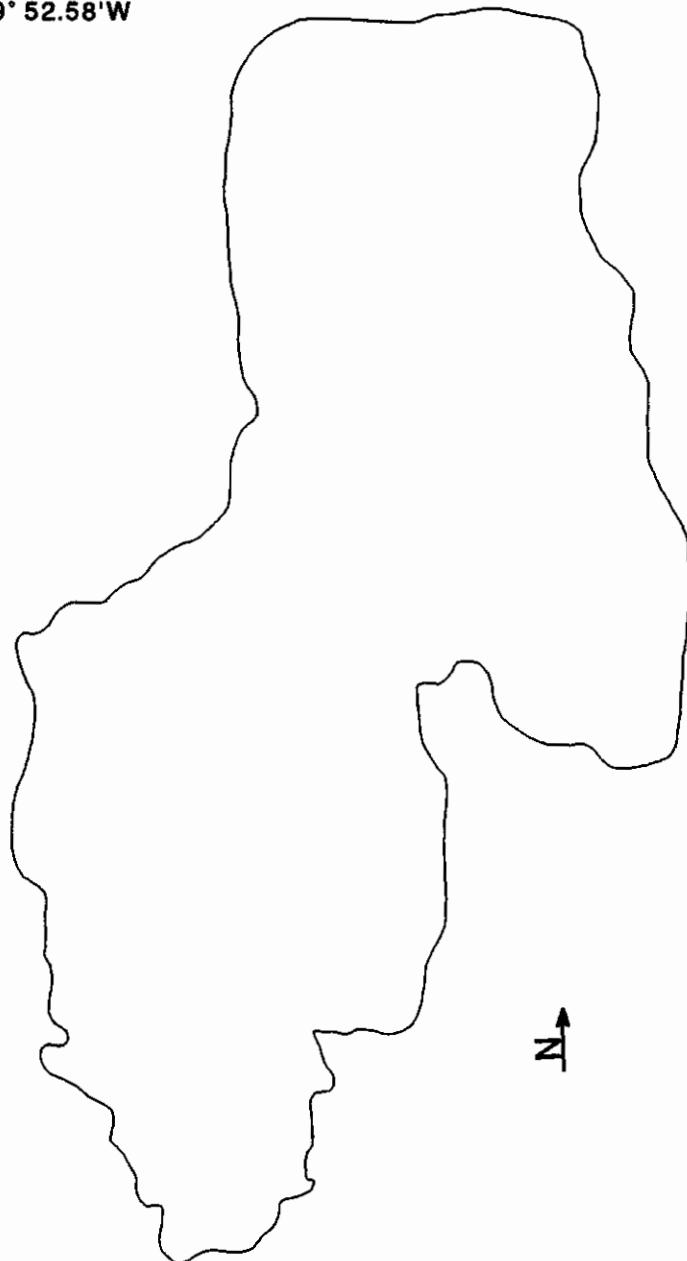
Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|----------|----------|-------------------|-----------------|---------------|---------------------|
| Gill Net | Sep 5 79 | 20.0 | Arctic grayling | 2 | <150 |

Source of 1979 data: McElderry & Craig 1981

R27.1
(M8301)

70°22.17'N 149°52.58'W



0 300 600 900 1200 1500 ft

Lake R27.1

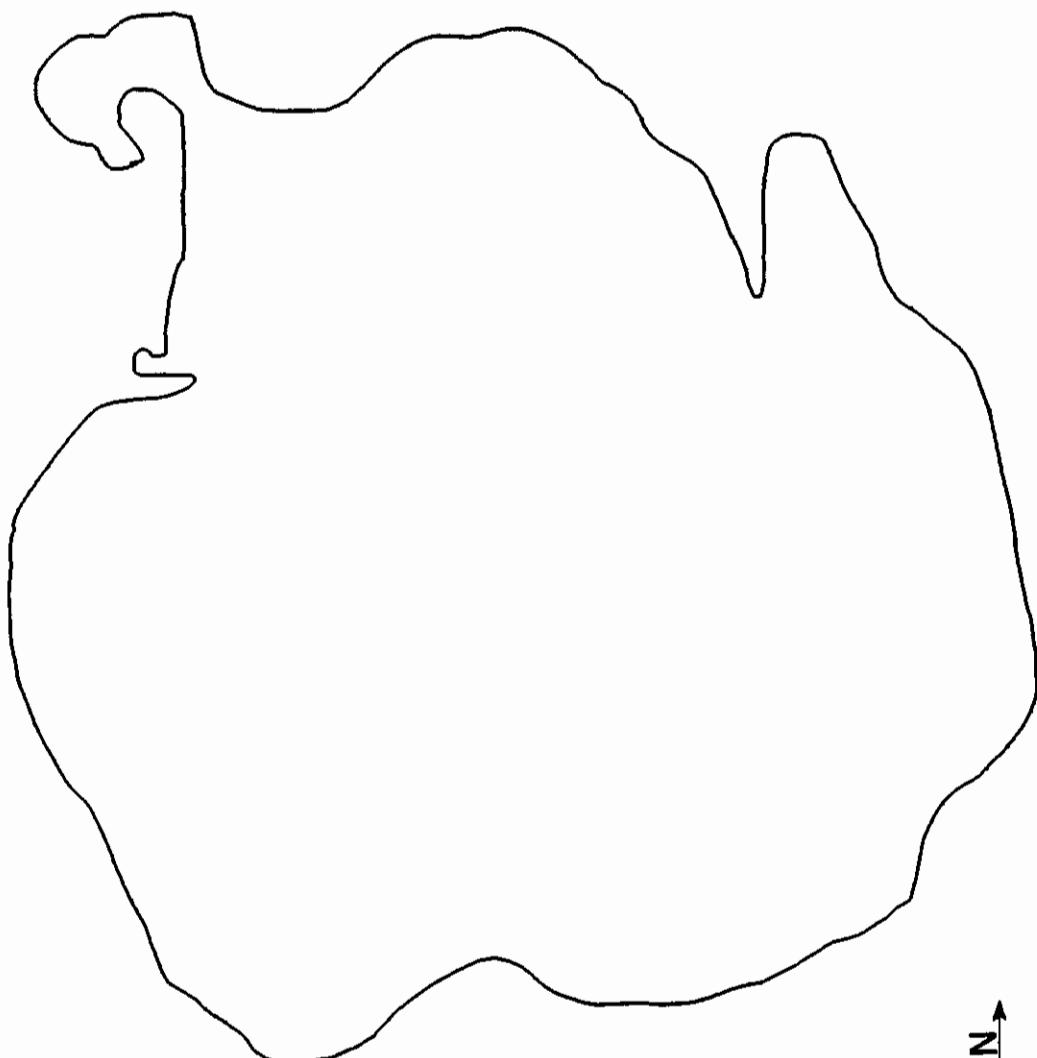
Other Names: M8301
Location: 70°22.17'N 149°52.58'W
USGS Quad Sheet: Beechey Point B-5: T12N R9E, Sect 28
Habitat: Drainage
Area: 298 acres
Maximum Depth: 4.5 feet
Active Outlet: Yes
Calculated Volume: 144.0 million gallons
Permittable Volume: No fish concern

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|----------|-----------|-------------------|---------|------------------|
| Gill Net | Aug 21 83 | ~48 | None | 0 |

S2.1
(L9501)

70°21.02'N 151°08.25'W



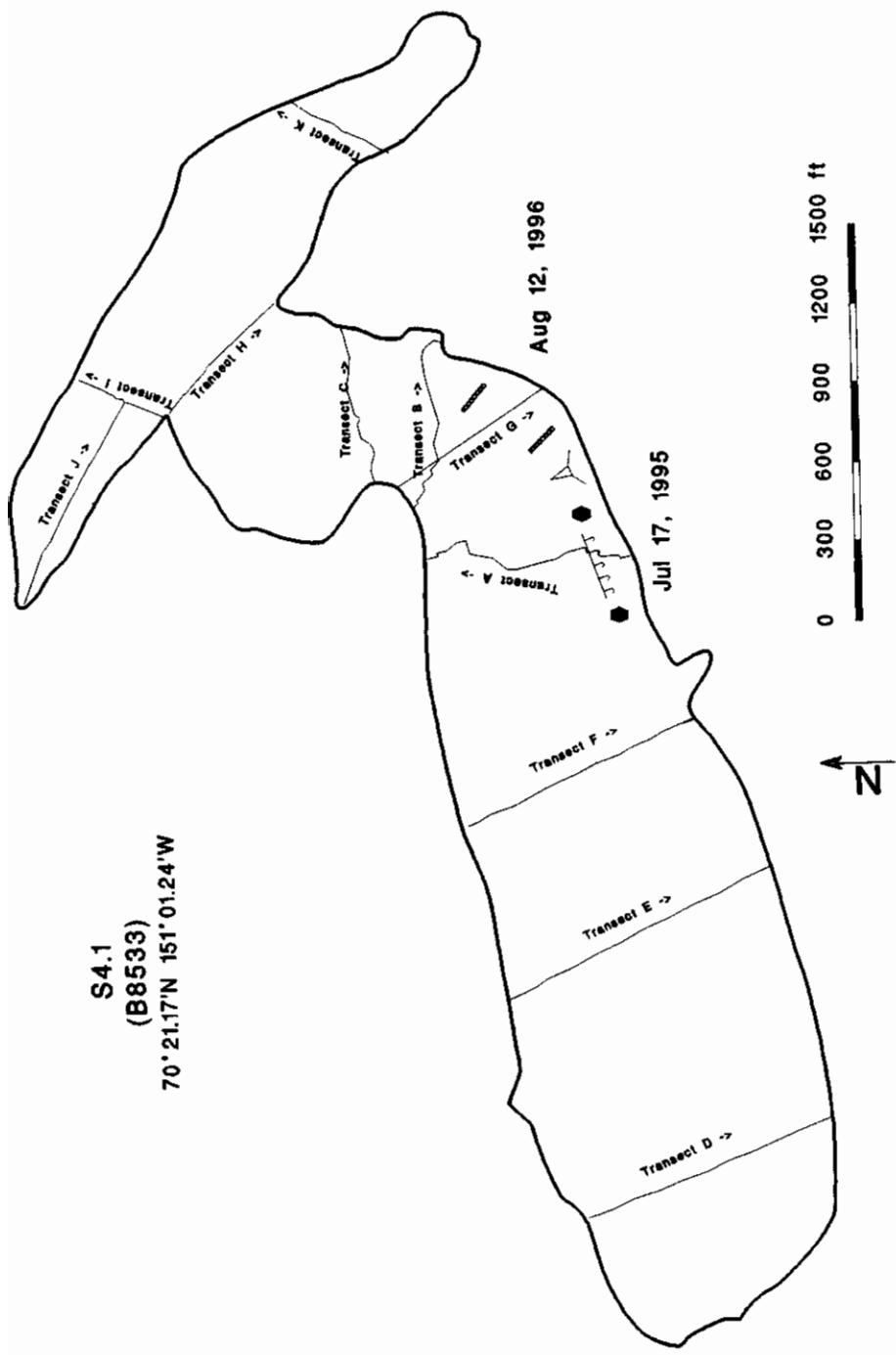
0 300 600 900 1200 1500 ft

Lake S2.1

Other Names: L9501
Location: 70°21.02'N 151° 8.25'W
USGS Quad Sheet: Harrison Bay B-2: T12N R4E, Sect 33
Habitat: Tundra
Area: 480 acres
Maximum Depth: 6.0 feet
Active Outlet: No
Spec. Conductance: 465 µS/cm
pH: 7.8
Calculated Volume: 309.9 million gallons
Permittable Volume: No fish concern

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|-------------|----------|-------------------|---------|------------------|
| Gillnet | Aug 9 97 | 16.7 | None | 0 |
| Minnow Trap | Aug 9 97 | 11.8 | None | 0 |



Lake S4.1

Other Names: B8533; L9315
Location: 70°21.17'N 151°01.24'W
USGS Quad Sheet: Harrison Bay B-2: T12N R4E, Sect 36
Habitat: Perched Lake (Infrequent Flooding)
Area: 114 acres
Maximum Depth: 24.1 feet
Active Outlet: No
Spec. Conductance: 230 $\mu\text{S}/\text{cm}$ (1985)
 166 $\mu\text{S}/\text{cm}$ (1995)
pH: 7.5 (1985)
Calculated Volume: 296.7 million gallons
Permittable Volume: 31.6 million gallons

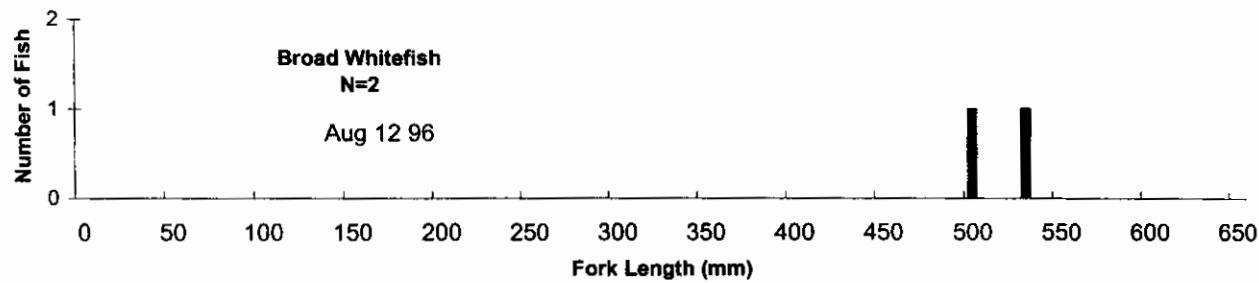
Water Quality:

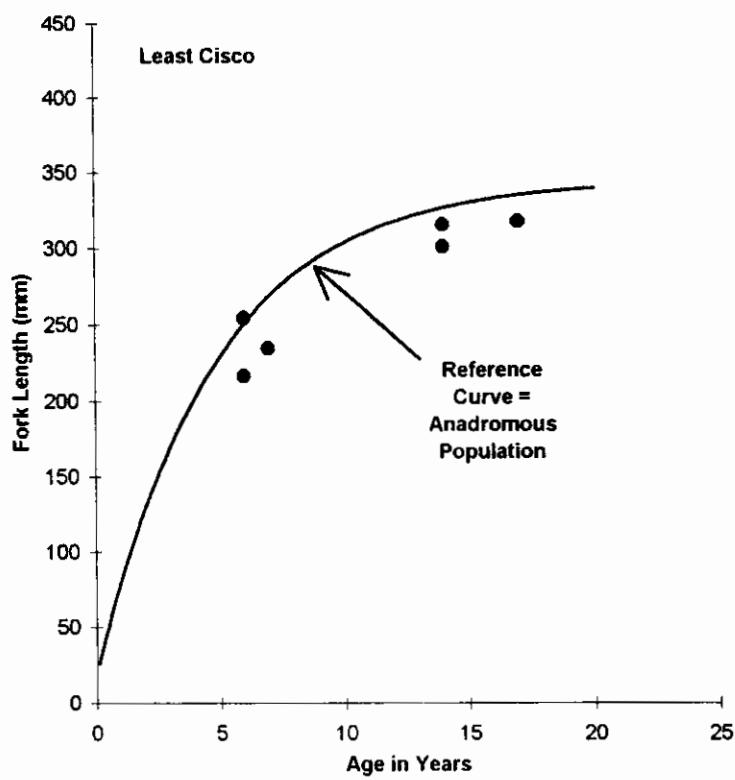
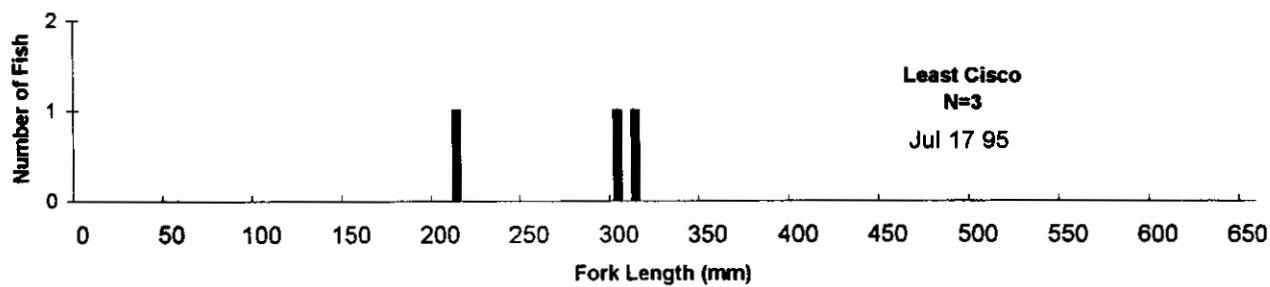
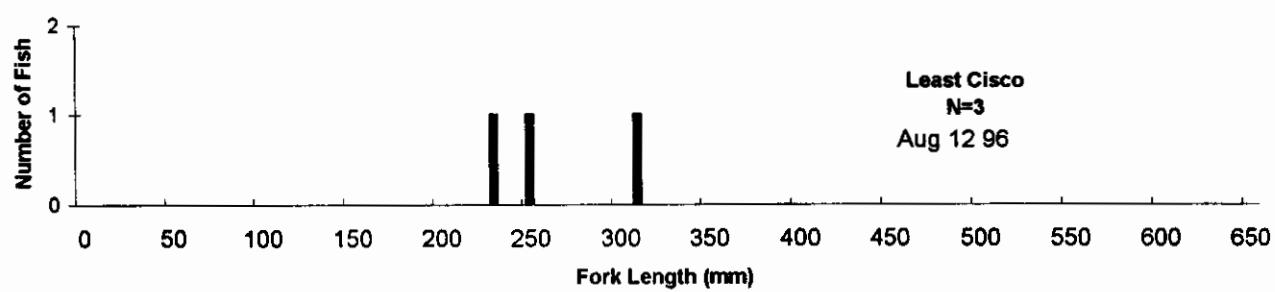
| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------|----------------|---------------|------------------|----------------|--|-------------------------------|---------------------|
| 1985 | | | | | 51 | | Bendock & Burr 1986 |
| 1993 | 19 | 11.0 | 2.4 | 4.7 | 22 | 46 | J. Lobdell |

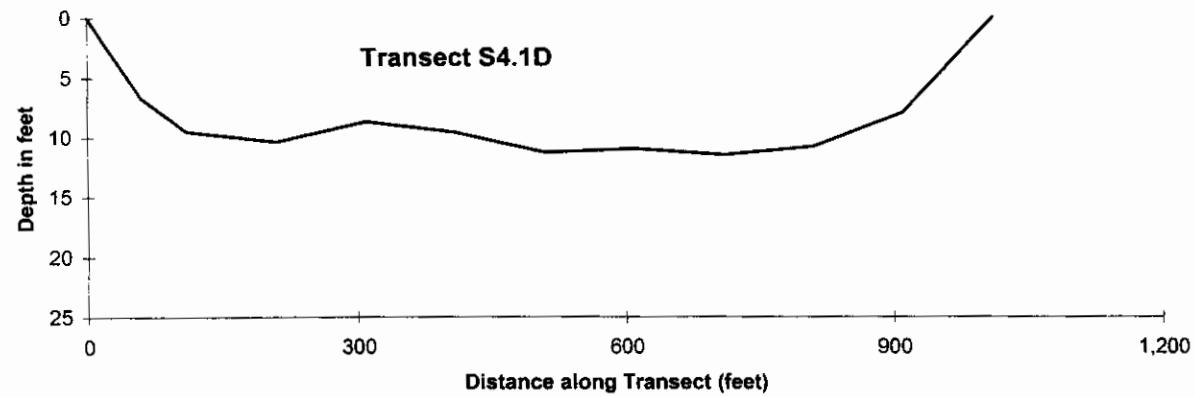
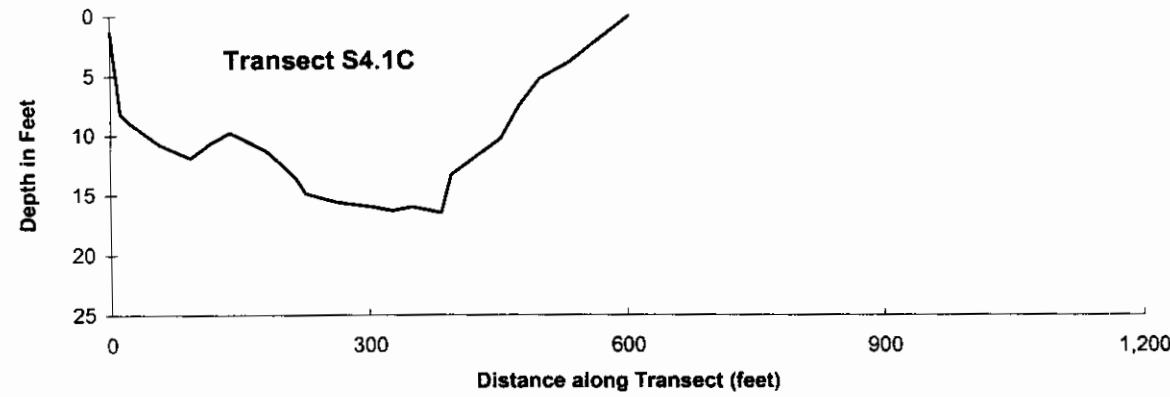
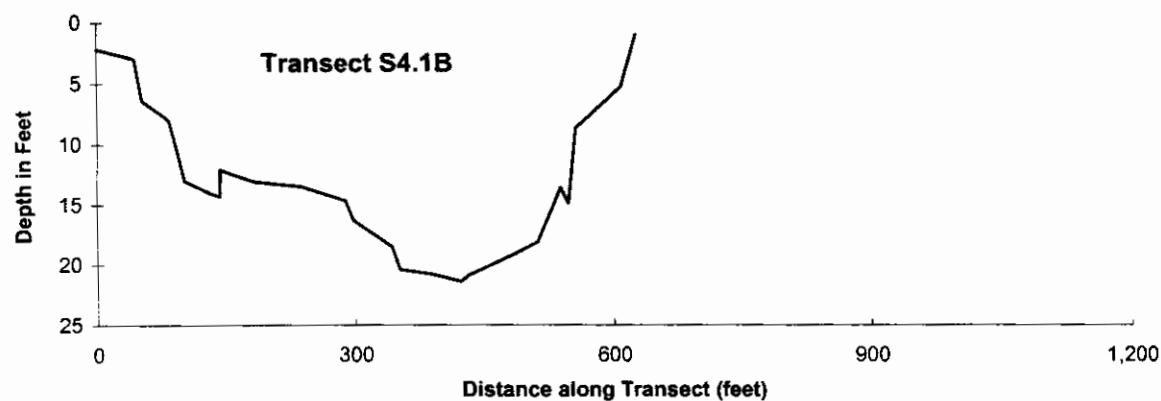
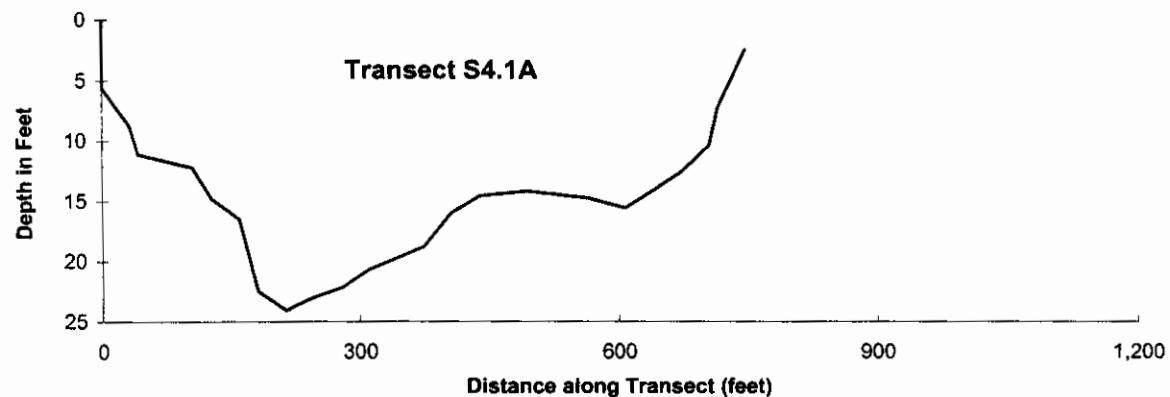
Catch Record:

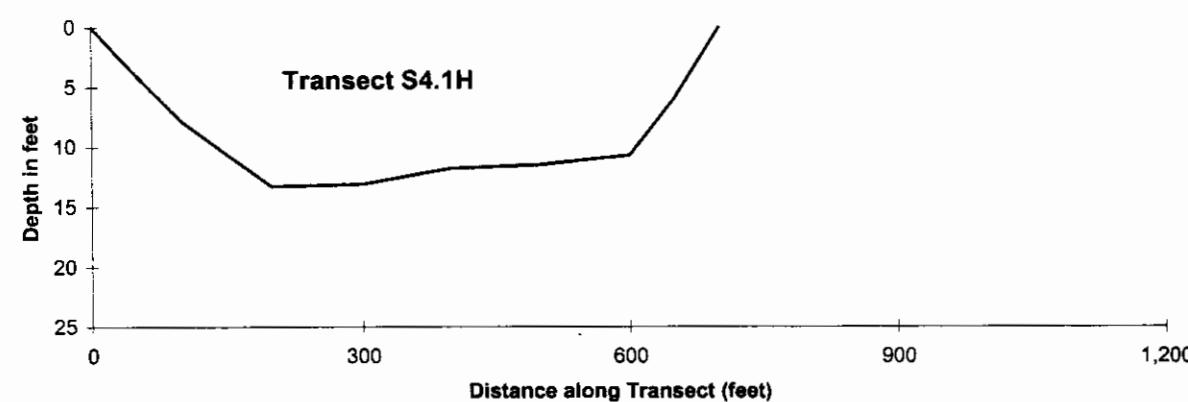
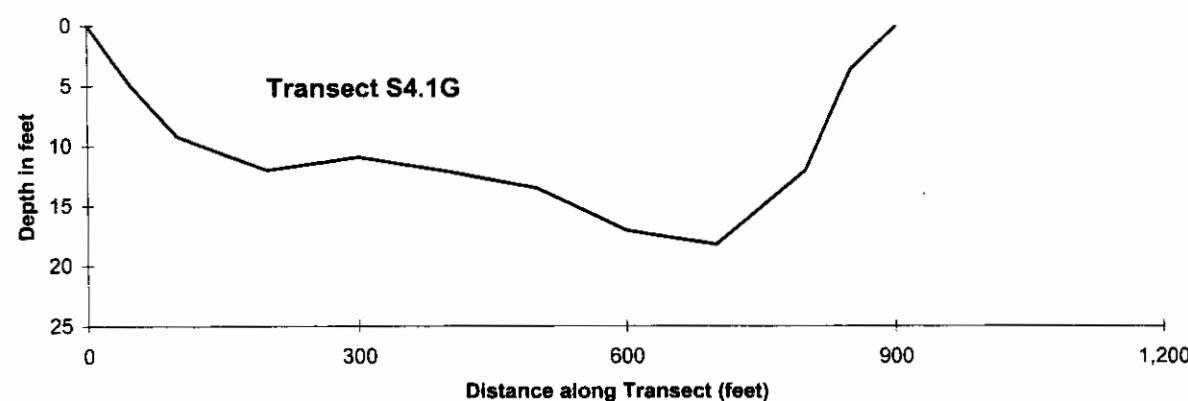
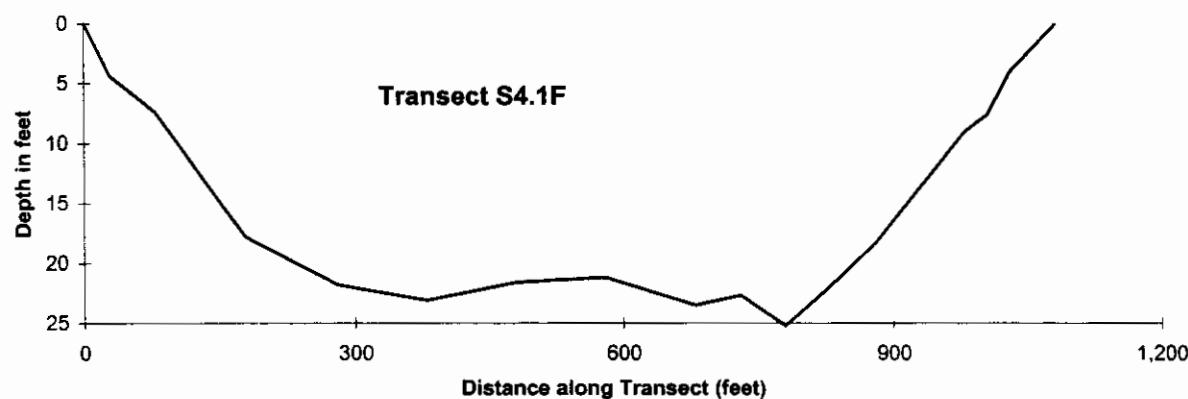
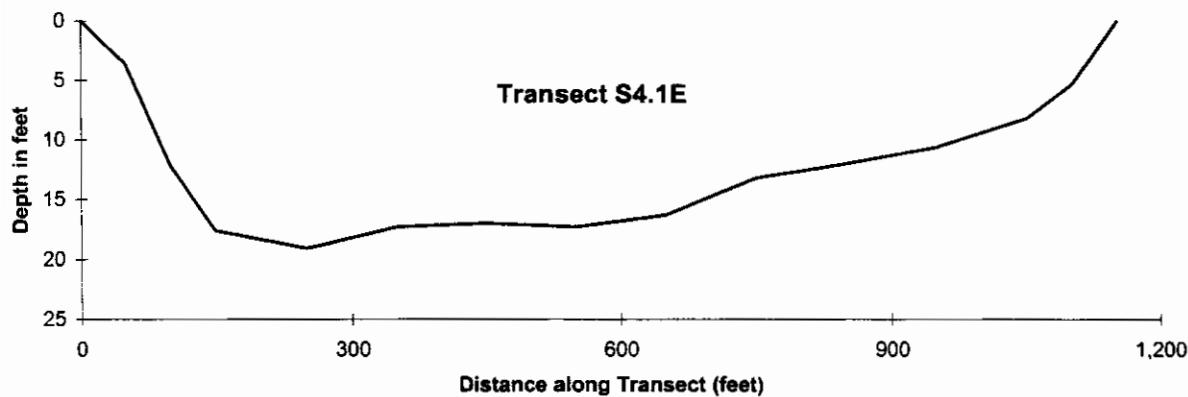
| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|-------------|-----------------|----------------|--------------------|---------------|------------------|
| Gill Net | Jul 16-19, 1985 | ~24 | Broad whitefish | ? | |
| | | | Least cisco | ? | |
| Fyke Net | Jul 17 95 | 23.7 | Least cisco | 3 | 217-318 |
| | | | 9spine stickleback | 1,680 | |
| Minnow Trap | Jul 17 95 | 48.3 | 9spine stickleback | 1 | |
| Set Line | Jul 17 95 | 23.8 | None | 0 | |
| Gill Net | Aug 12 96 | 11.7 | Broad whitefish | 2 | 507-534 |
| | | | Least cisco | 3 | 235-316 |
| | | | Round whitefish | 4 | 304-421 |

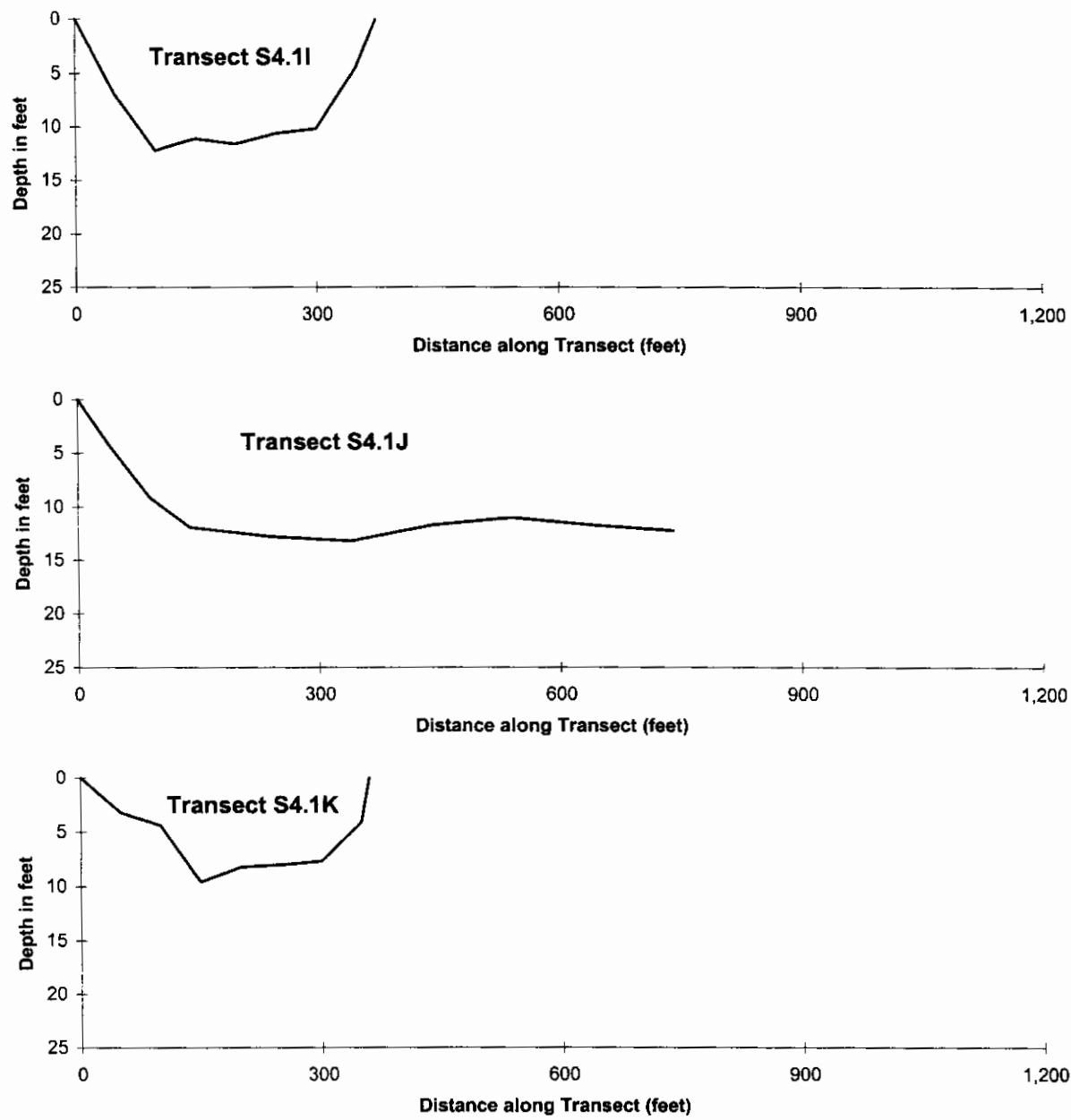
Source of 1985 data: Bendock and Burr 1986





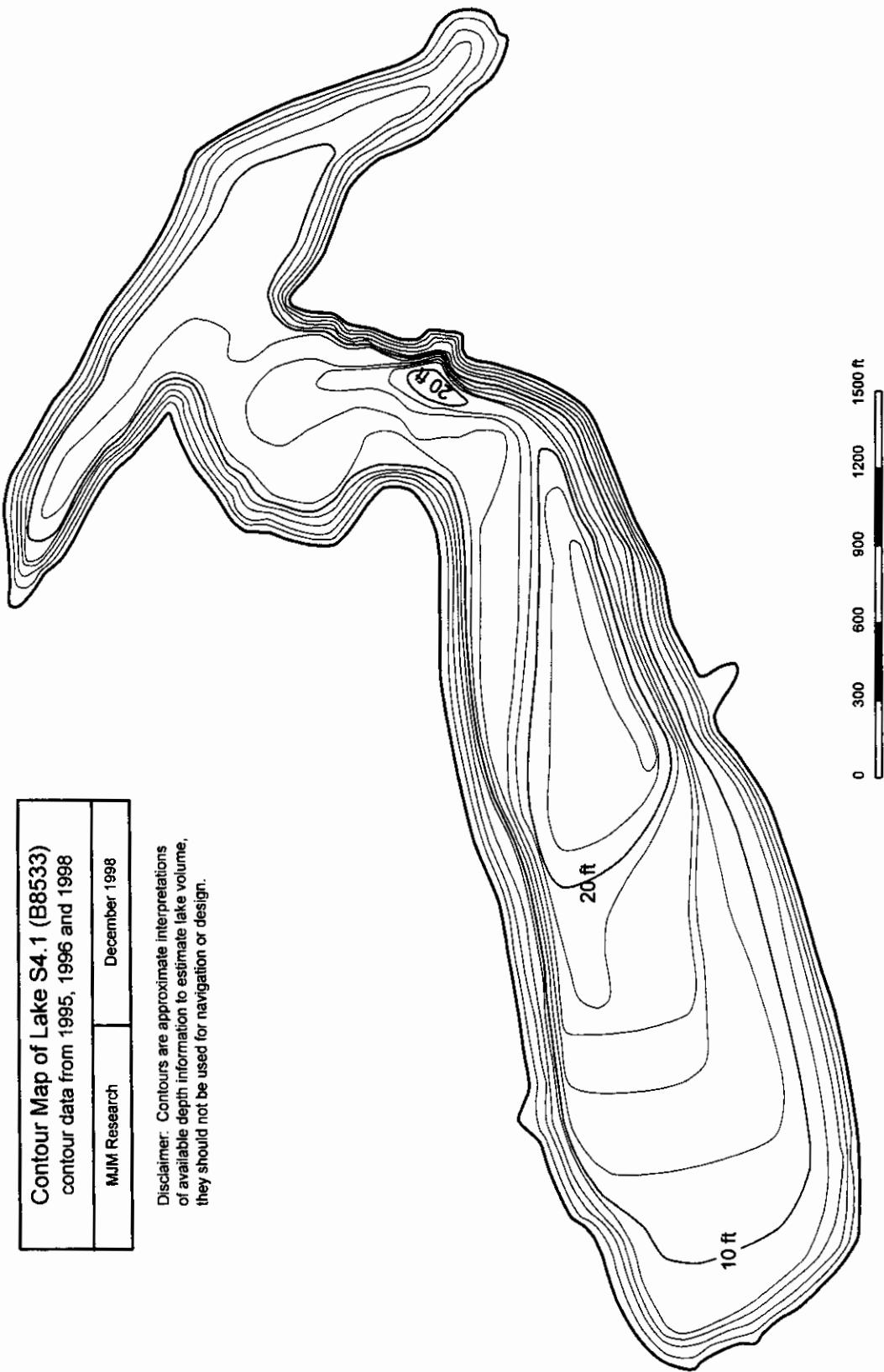


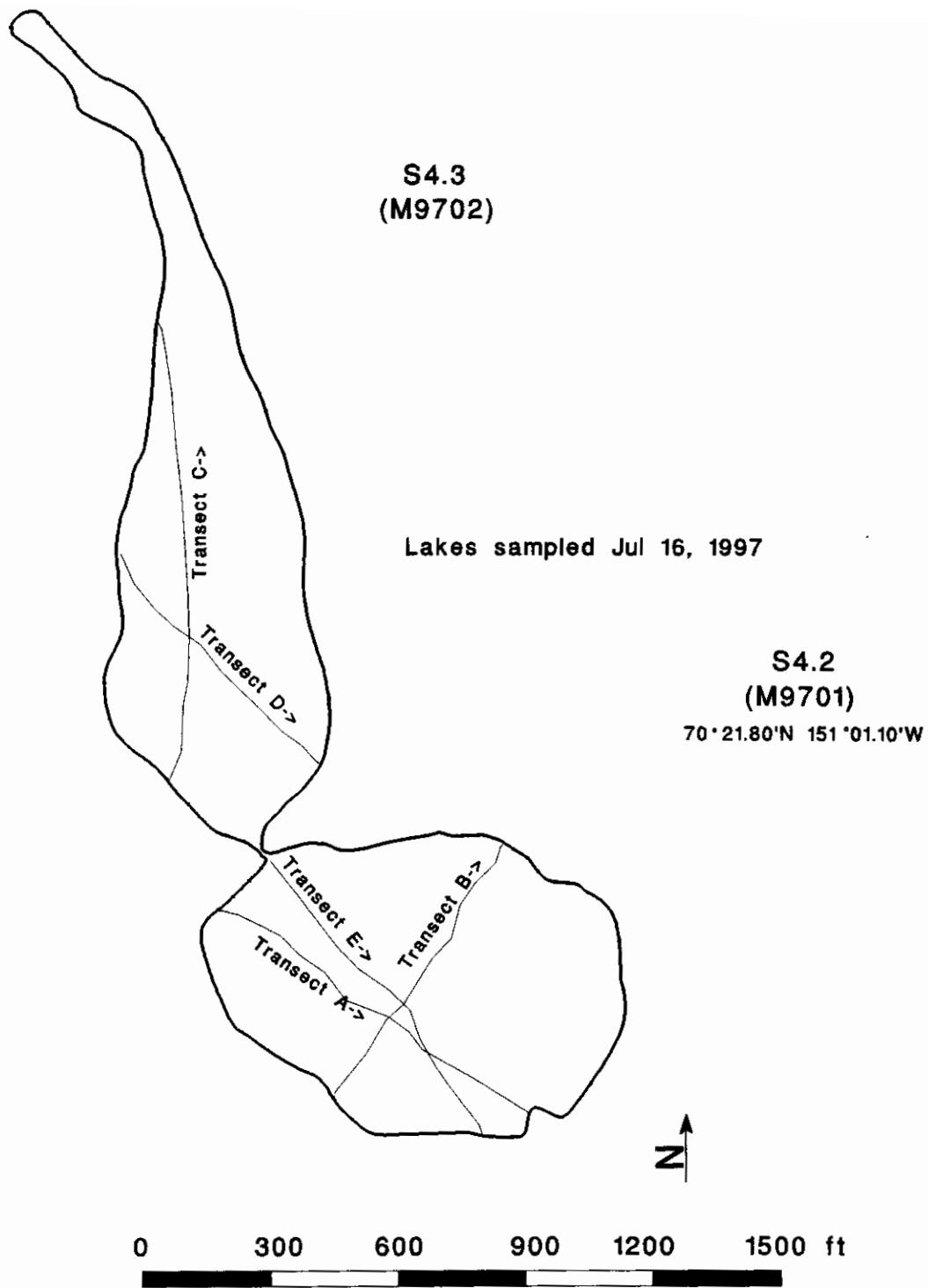




Contour Map of Lake S4.1 (B8533)
contour data from 1995, 1996 and 1998
MJM Research December 1998

Disclaimer: Contours are approximate interpretations
of available depth information to estimate lake volume,
they should not be used for navigation or design.





Lake S4.2 and S4.3 (lakes are connected)

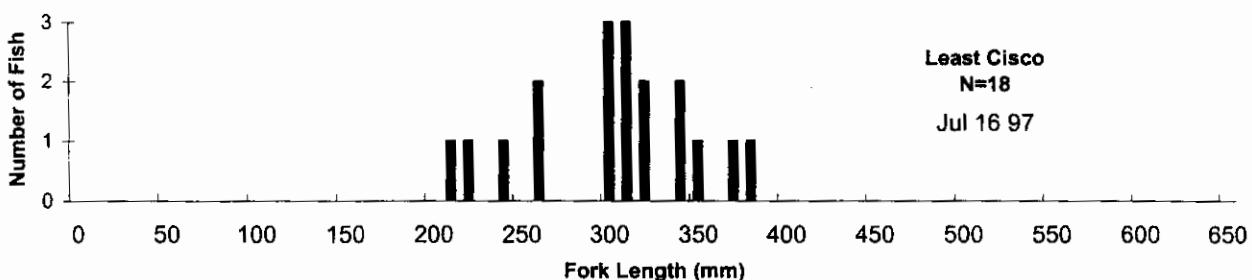
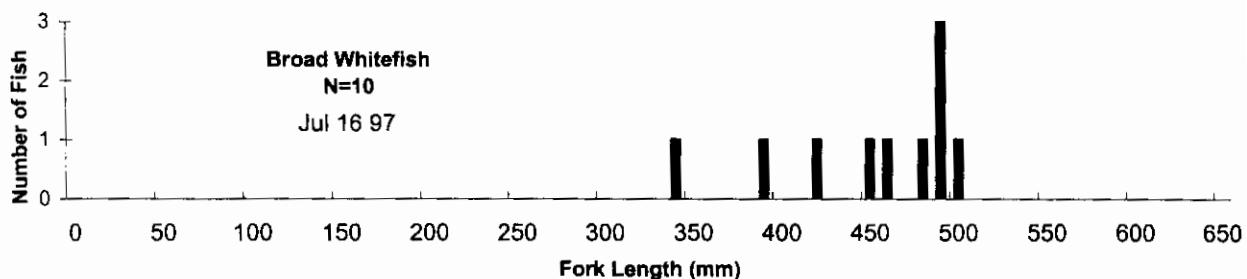
Other Names: M9701
Location: 70°21.80'N 151° 1.10'W
USGS Quad Sheet: Harrison Bay B-2: T12N R4E, Sect 25
Habitat: Perched Lake (Infrequent Flooding)
M9701 Area: 12 acres
M9701 Maximum Depth: 15.6 feet
M9702 Area: 12 acres
M9702 Maximum Depth: 18.1 feet
Active Outlet: No
Spec. Conductance: 165 $\mu\text{S}/\text{cm}$
Calculated Volume: 42.6 million gallons
Permittable Volume: 3.7 million gallons

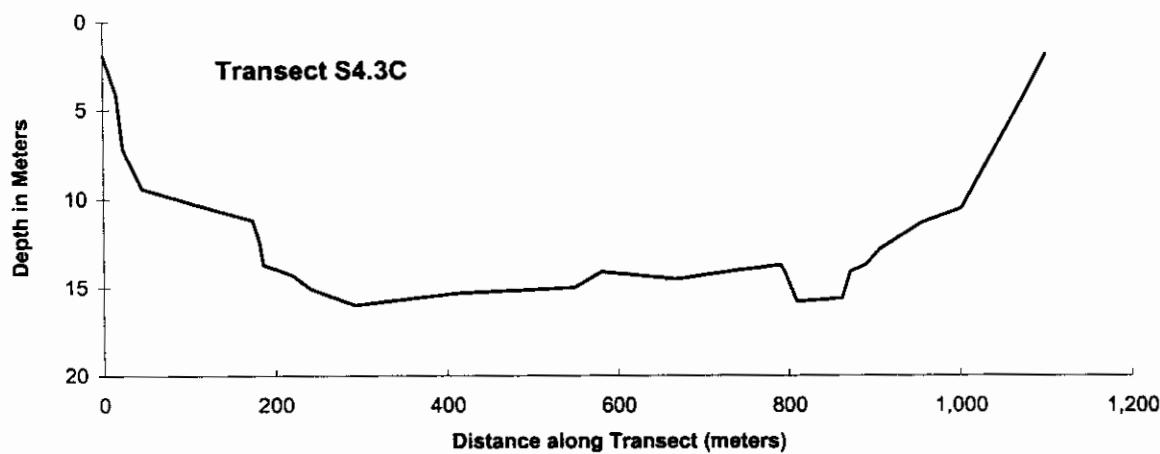
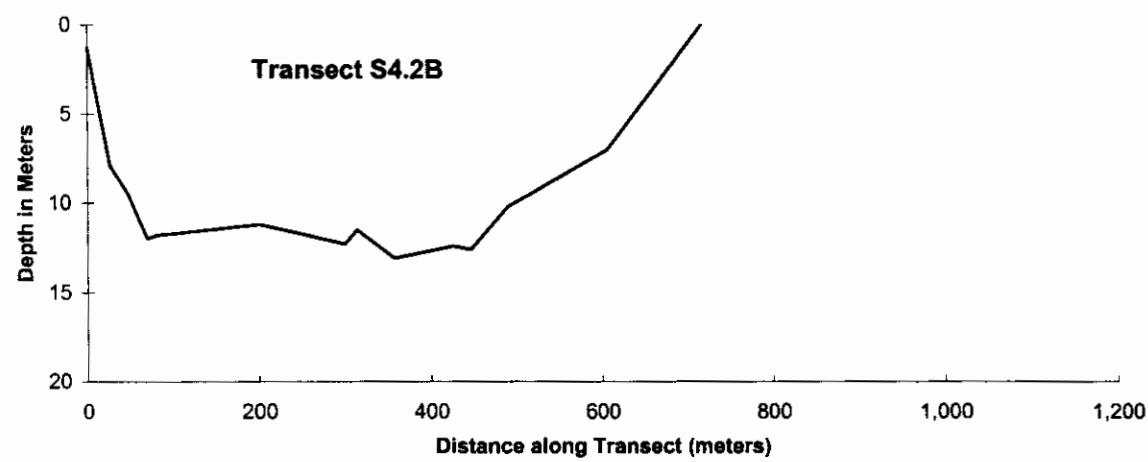
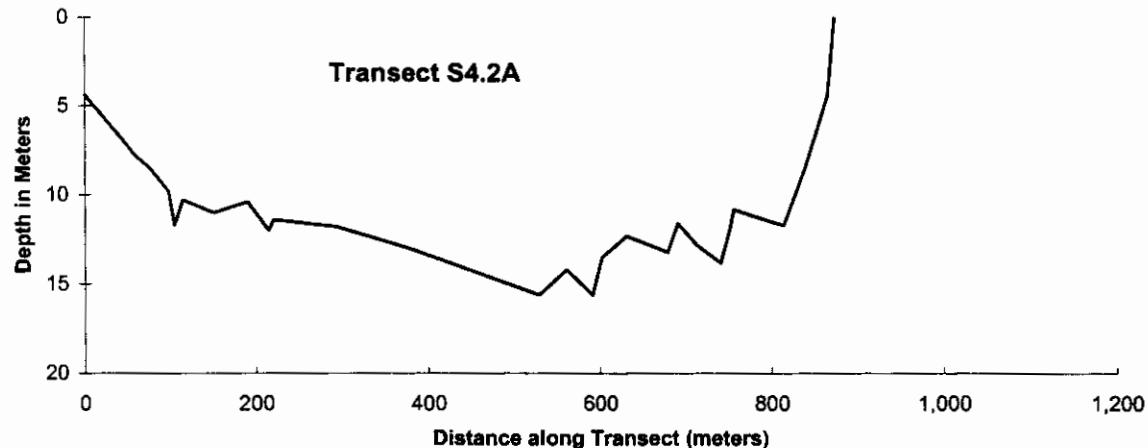
Water Quality:

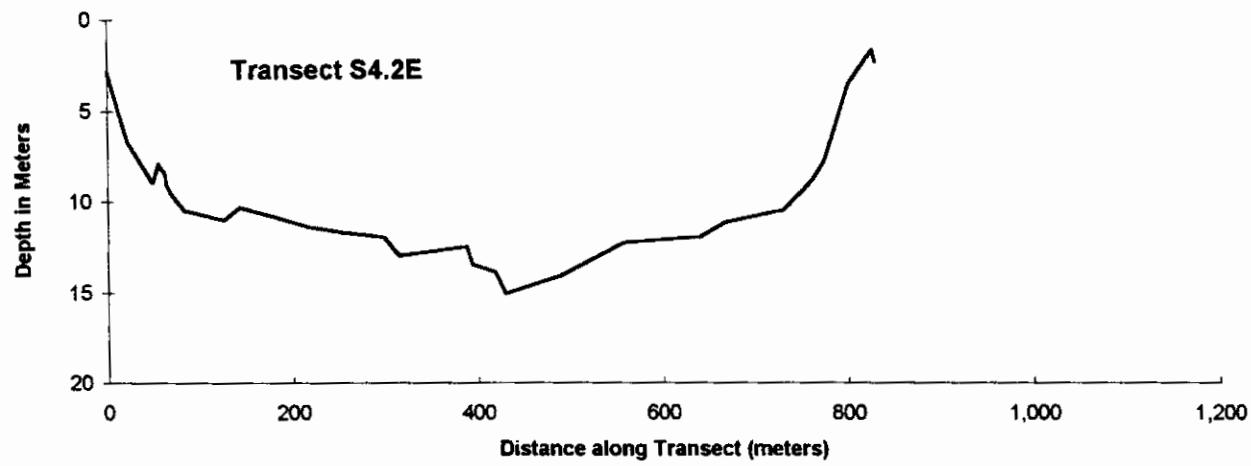
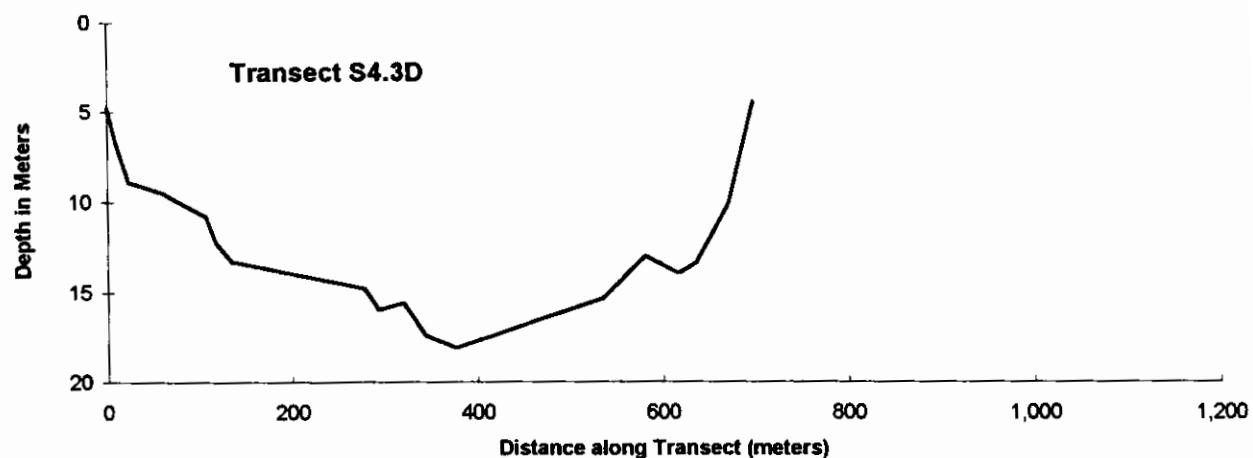
| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------|----------------|---------------|------------------|----------------|--|-------------------------------|------------|
| 1997 | 45 | 47.8 | 4.48 | 14.5 | 54.7 | 73 | J. Lobdell |

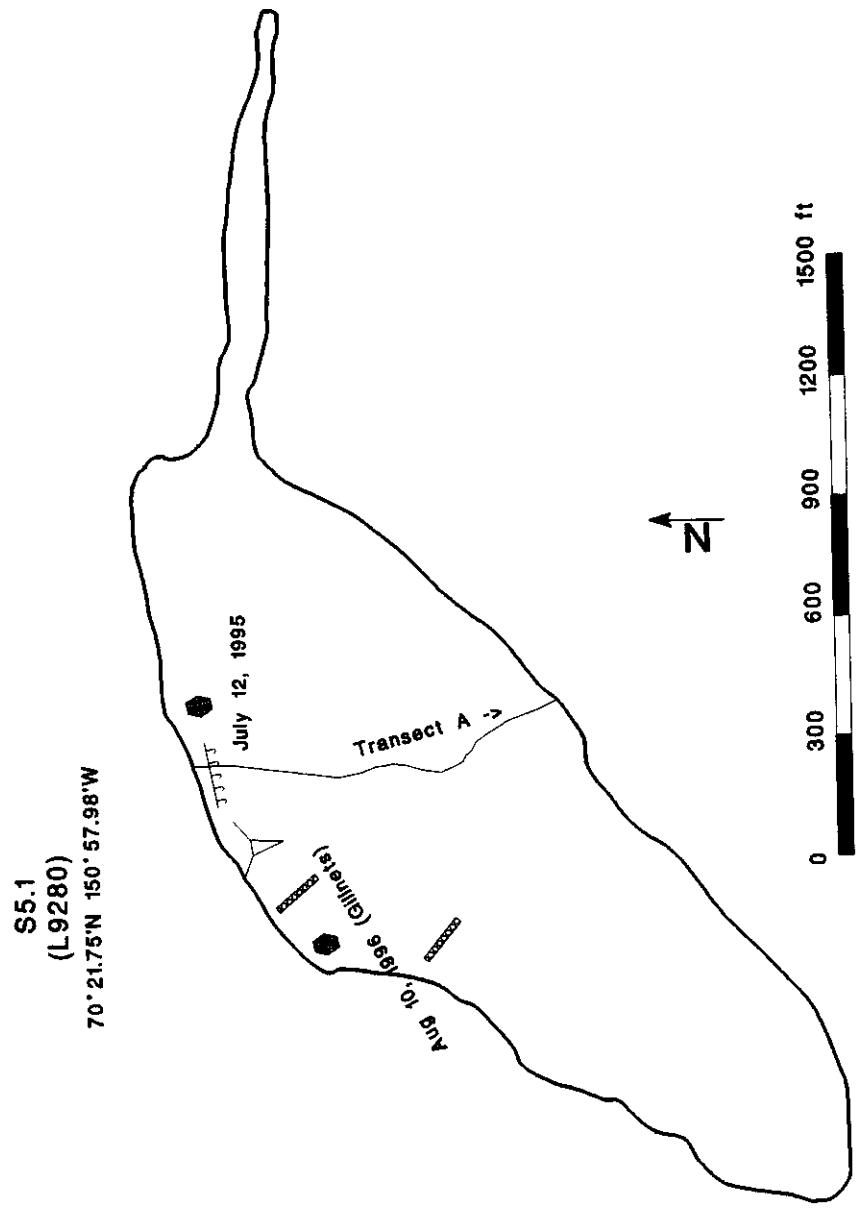
Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|-------------|-----------|----------------|--------------------|---------------|------------------|
| Gillnet | Jul 16 97 | 19.7 | Broad whitefish | 10 | 342-503 |
| | | | Humpback whitefish | 1 | 472 |
| | | | Least cisco | 18 | 215-381 |
| Minnow Trap | Jul 16 97 | 12.0 | None | 0 | |









Lake S5.1

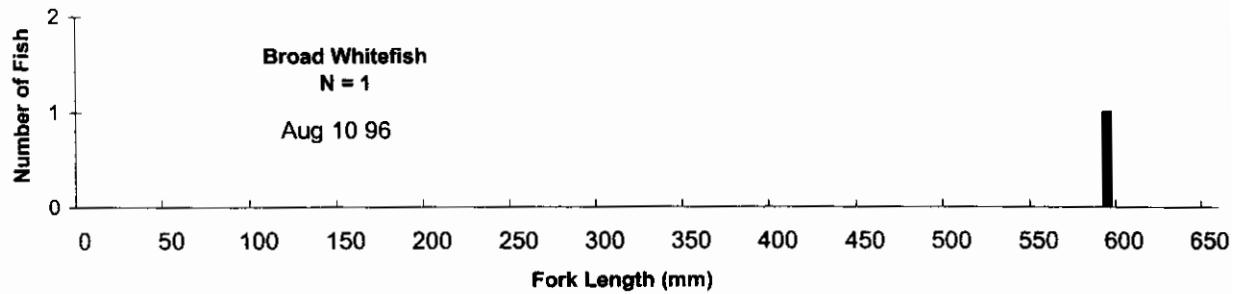
Other Names: L9280
Location: 70°21.75'N 150°57.98'W
USGS Quad Sheet: Harrison Bay B-2: T12N R5E, Sect 30
Habitat: Perched Lake (Infrequent Flooding)
Area: 31 acres
Maximum Depth: 14.8 feet
Active Outlet: No
Spec. Conductance: 267 $\mu\text{S}/\text{cm}$
Calculated Volume: 50.0 million gallons
Permittable Volume: 4.0 million gallons

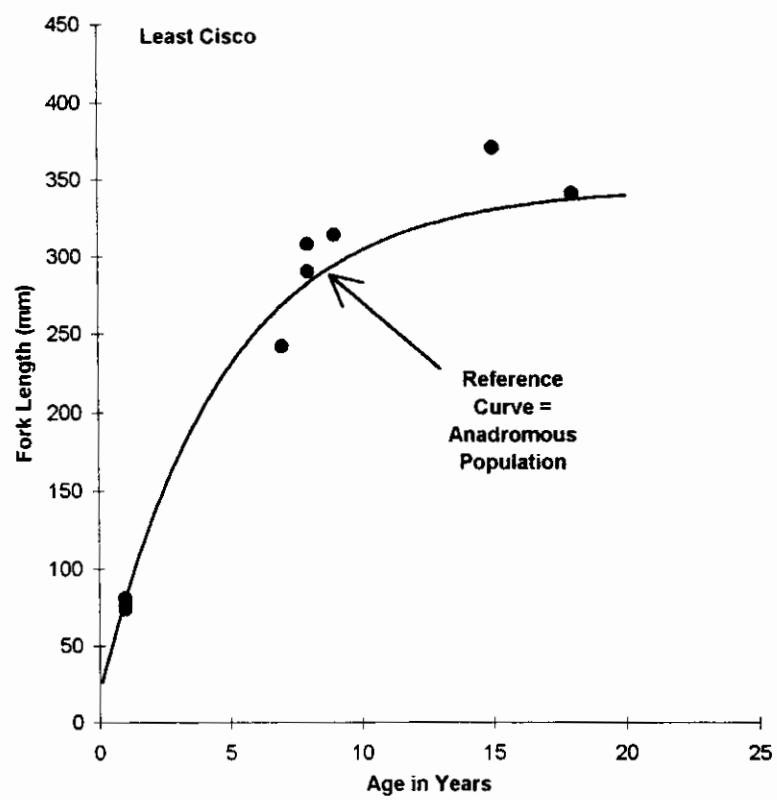
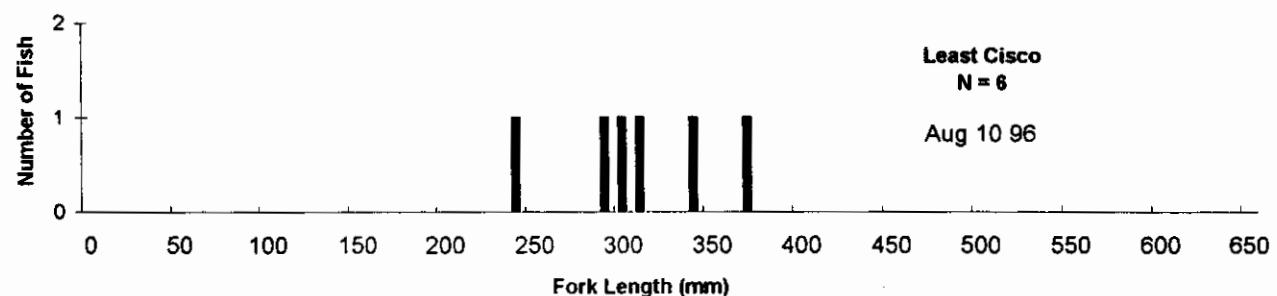
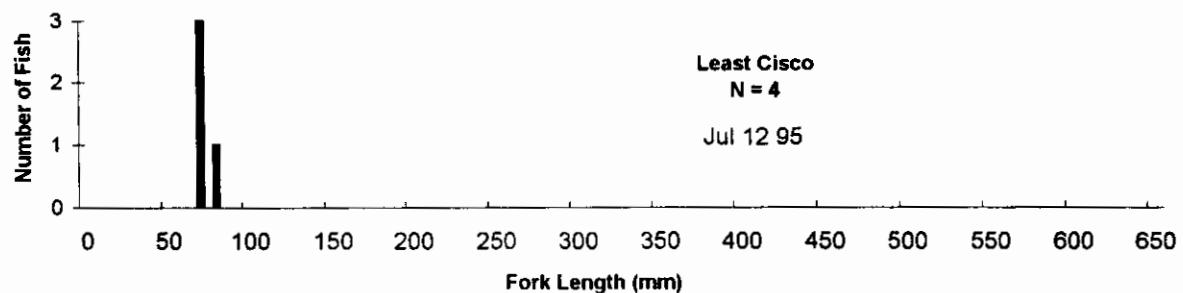
Water Quality:

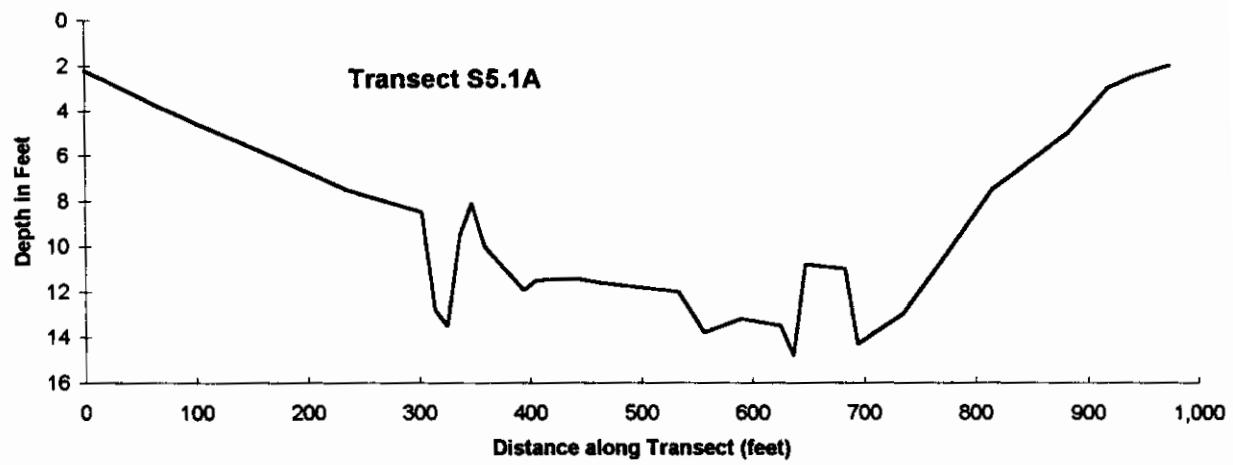
| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------|----------------|---------------|------------------|----------------|--|-------------------------------|------------|
| 1992 | 56 | 28.0 | 7.6 | 11 | 59 | 220 | J. Lobdell |

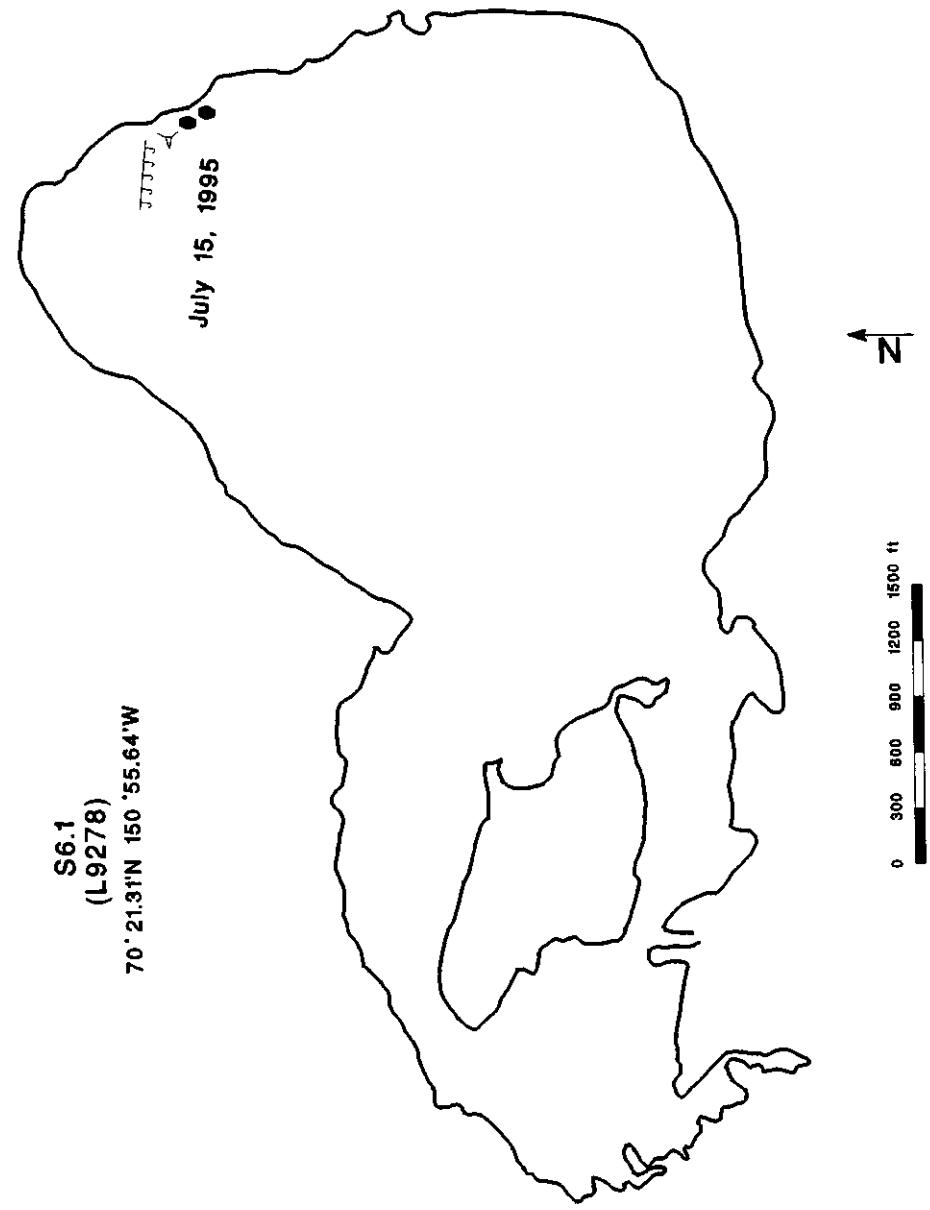
Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|-------------|-----------|----------------|-----------------------------------|---------------|------------------|
| Fyke Net | Jul 12 95 | 20.3 | Least cisco 9spine stickleback | 4 67 | 74-81 |
| Minnow Trap | Jul 12 95 | 40.6 | 9spine stickleback | 5 | |
| Seine | Jul 12 95 | | None | 0 | |
| Set Line | Jul 13 95 | 24.1 | None | 0 | |
| Gill Net | Aug 10 96 | 11.3 | Broad whitefish Least cisco | 1 6 | 595 242-371 |









Lake S6.1

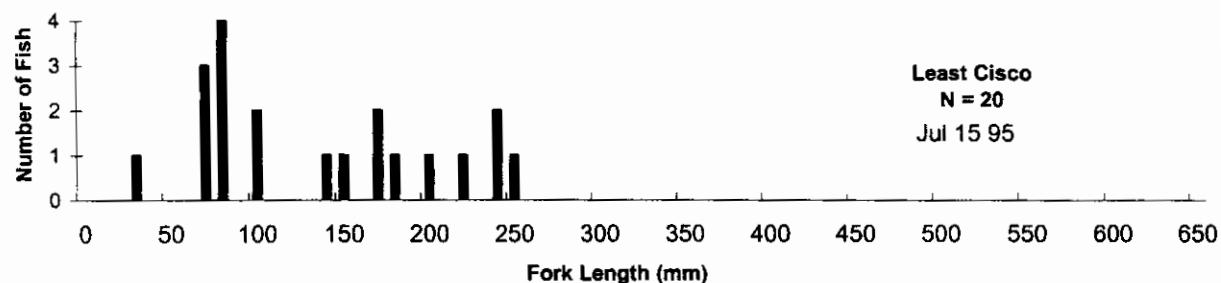
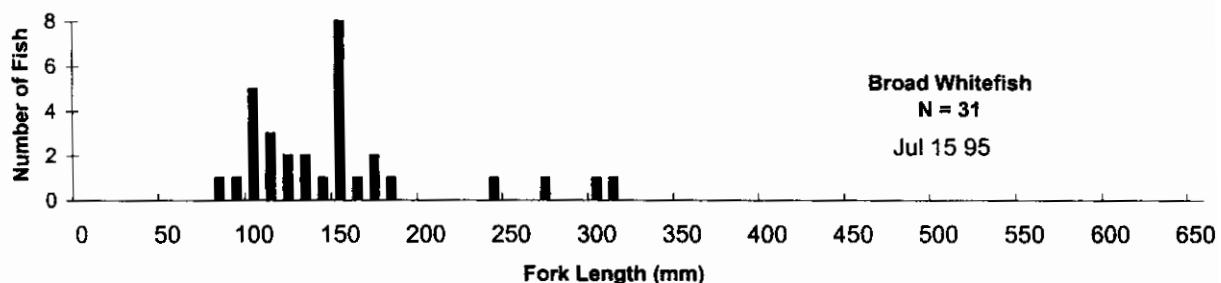
Other Names: L9278
Location: 70°21.31'N 150°55.64'W
USGS Quad Sheet: Harrison Bay B-2: T12N R5E, Sect 32
Habitat: Tapped Lake
Area: 330 acres
Maximum Depth: 5 feet
Active Outlet: Yes
Spec. Conductance: 4,235 $\mu\text{S}/\text{cm}$
Calculated Volume: 177.3 million gallons
Permittable Volume: 0.0 million gallons

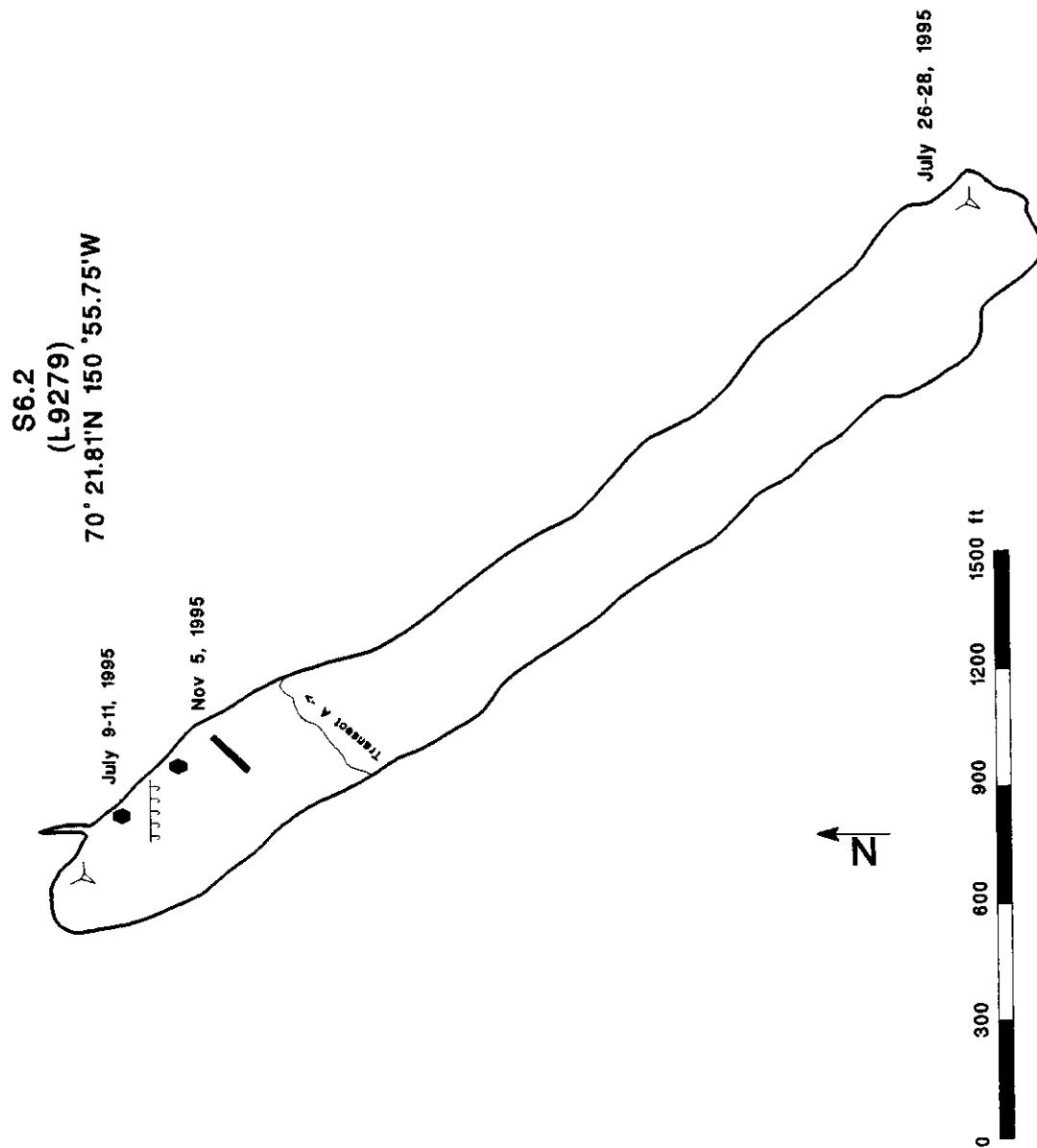
Water Quality:

| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness | Total Dissolved Solids (mg/l) | Source |
|--------------------|-------------------|------------------|---------------------|-------------------|--------------------------------|--|------------|
| | | | | | [CaCO ₃] (mg/l) | | |
| 1992 | 2400 | 1300.0 | 184 | 83 | 965 | 5000 | J. Lobdell |

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|-------------|-----------|-------------------|--------------------|------------------|---------------------|
| Fyke Net | Jul 15 95 | 24.3 | Broad whitefish | 31 | 84-312 |
| | | | Humpback whitefish | 2 | 148, 152 |
| | | | Least cisco | 20 | 35-251 |
| | | | Round whitefish | 1 | 102 |
| | | | 9spine stickleback | 5 | |
| Minnow Trap | Jul 15 95 | 48.1 | None | 0 | |
| Seine | Jul 15 95 | | Least cisco | 36 | |
| Set Line | Jul 15 95 | 24.7 | None | 0 | |





Lake S6.2

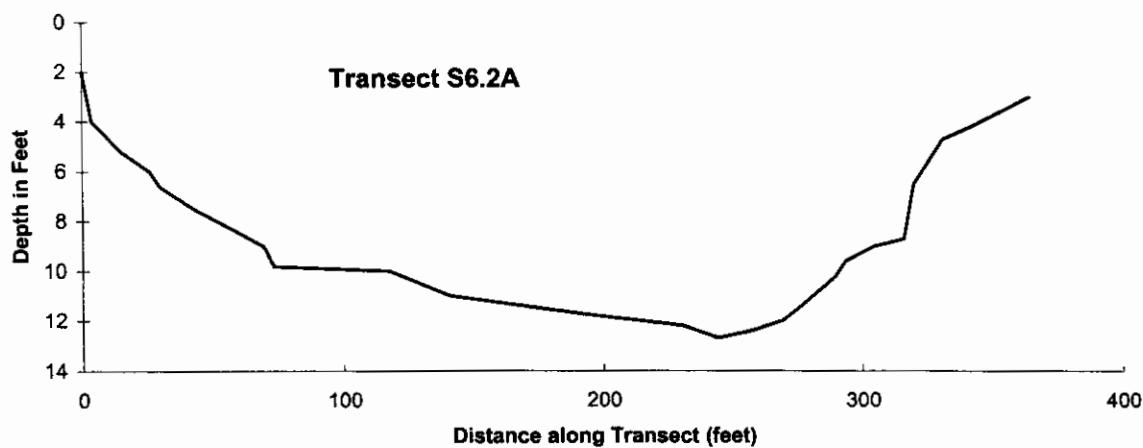
Other Names: L9279
Location: 70°21.81'N 150°55.75'W
USGS Quad Sheet: Harrison Bay B-2: T12N R5E, Sect 29
Habitat: Perched Lake (Infrequent Flooding)
Area: 19 acres
Maximum Depth: 12.7 feet
Active Outlet: No
Spec. Conductance: 193 $\mu\text{S}/\text{cm}$
Calculated Volume: 26.1 million gallons
Permittable Volume: 1.8 million gallons

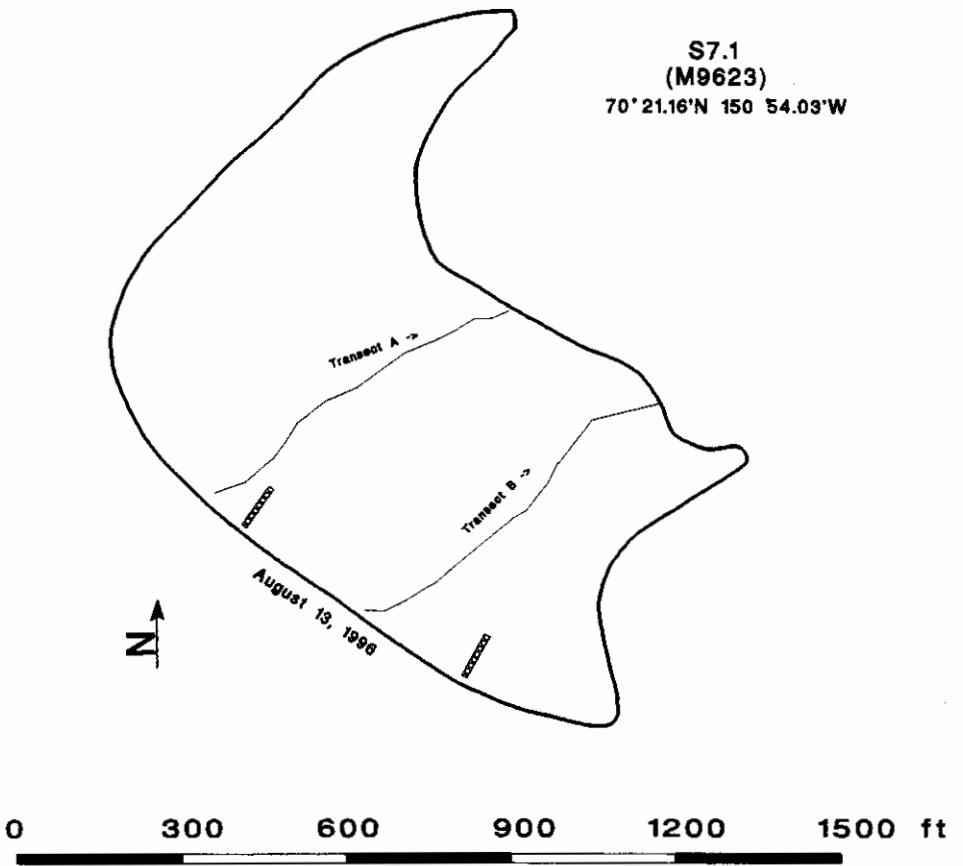
Water Quality:

| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------------|-------------------|------------------|---------------------|-------------------|---|--|------------|
| 1992 | 47 | 18.0 | 7.6 | 10 | 56 | 190 | J. Lobdell |

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|-------------|-----------|-------------------|--------------------|------------------|
| Fyke Net | Jul 11 95 | 28.0 | 9spine stickleback | 9,758 |
| Fyke Net | Jul 27 95 | 24.1 | 9spine stickleback | 68 |
| Fyke Net | Jul 28 95 | 17.6 | 9spine stickleback | 10 |
| Minnow Trap | Jul 10 95 | 37.8 | None | 0 |
| Seine | Jul 9 95 | | 9spine stickleback | 627 |
| Set Line | Jul 12 95 | 21.4 | None | 0 |
| Gill Net | Nov 5 95 | 22.0 | None | 0 |



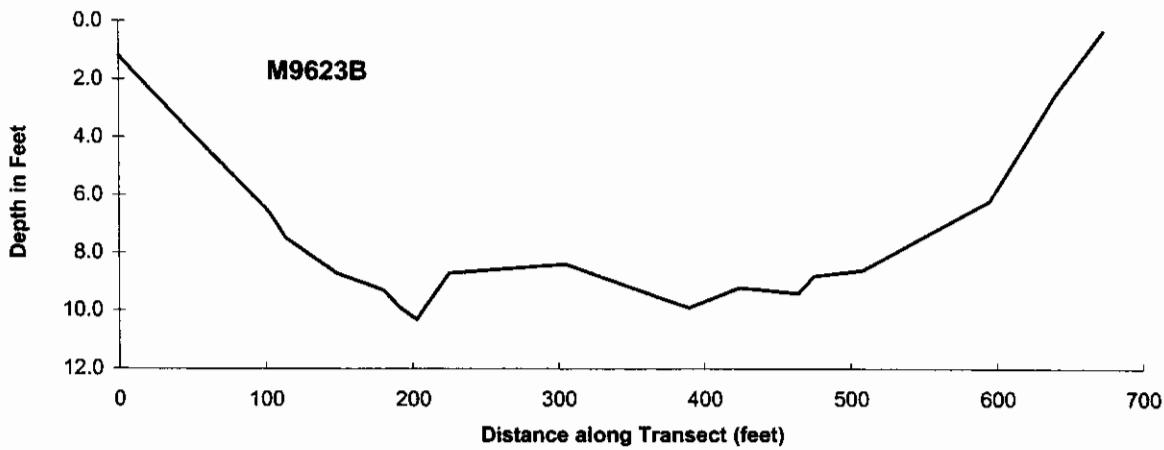
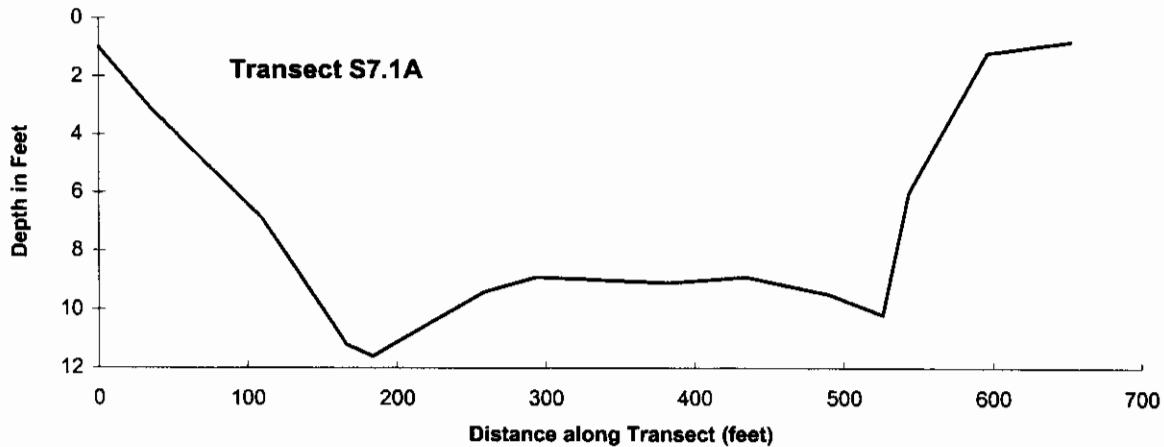


Lake S7.1

Other Names: M9623
Location: 70°21.16'N 150°54.03'W
USGS Quad Sheet: Harrison Bay B-2: T12N R5E, Sect 33
Habitat: Perched Lake (Frequent Flooding)
Area: 15 acres
Maximum Depth: 11.8 feet
Active Outlet: No
Spec. Conductance: 3,523 $\mu\text{S}/\text{cm}$
Calculated Volume: 18.9 million gallons
Permittable Volume: No fish concern

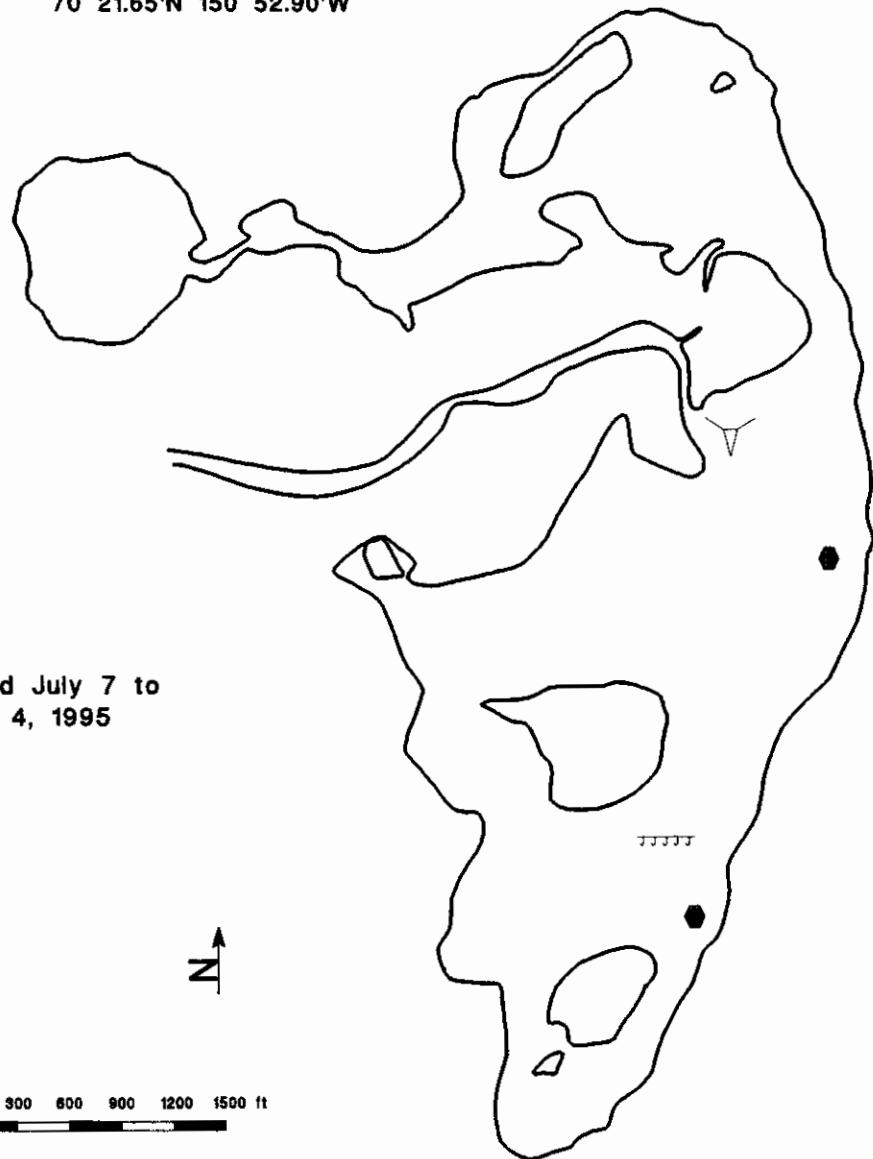
Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|----------|-----------|-------------------|---------|------------------|
| Gill Net | Aug 13 96 | 12.6 | None | 0 |



S7.2
(M9521)

70°21.65'N 150°52.90'W



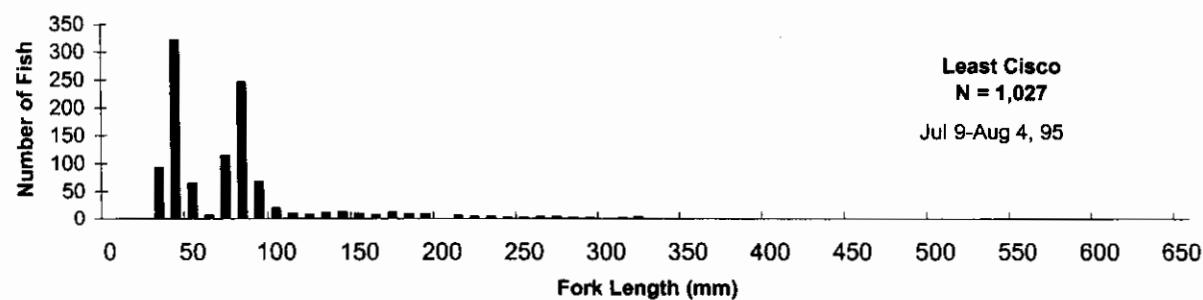
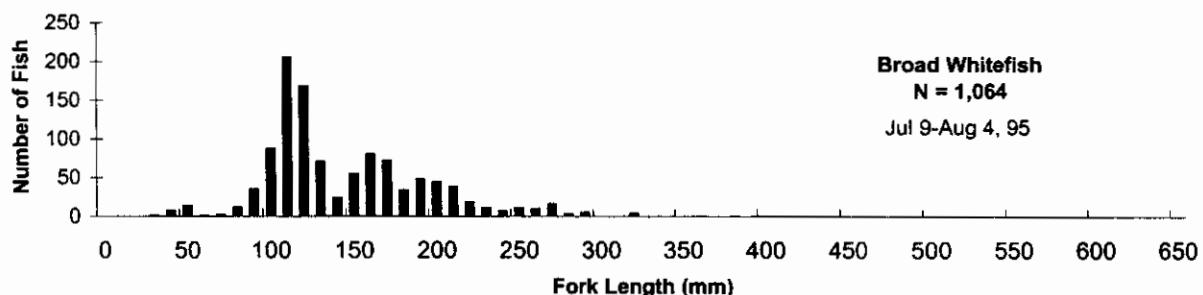
Sampled July 7 to
August 4, 1995

Lake S7.2

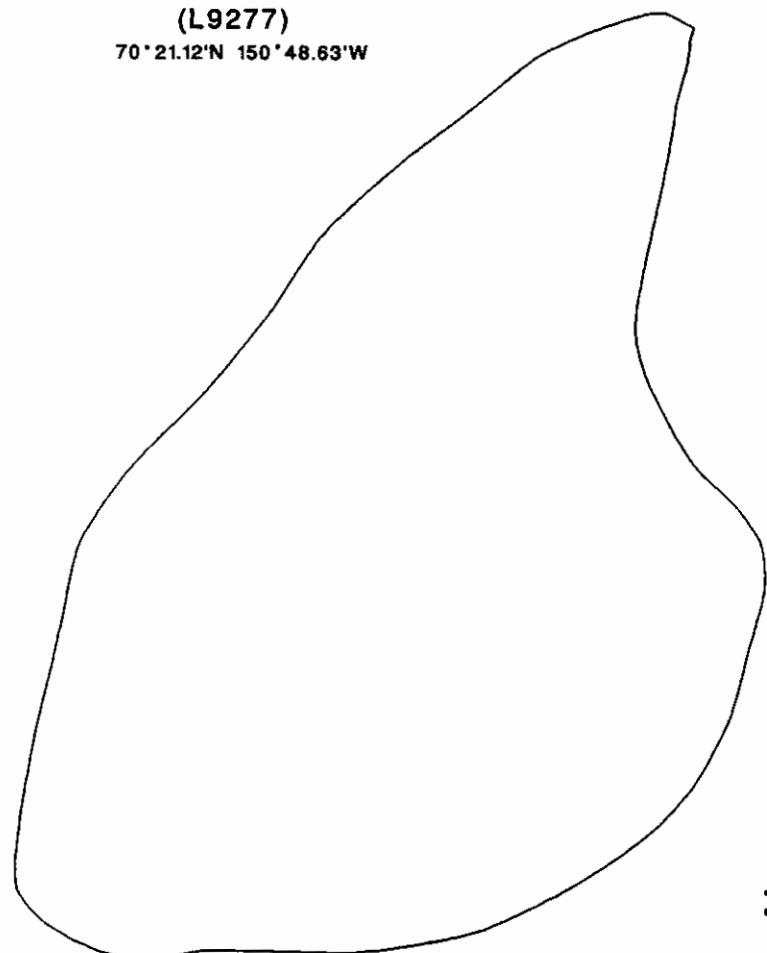
Other Names: M9521
Location: 70°21.65'N 150°52.90'W
USGS Quad Sheet: Harrison Bay B-2: T12N R5E, Sect 28
Habitat: Tapped Lake
Area: 221 acres
Maximum Depth: 2.2 feet
Active Outlet: Yes
Spec. Conductance: 608 $\mu\text{S}/\text{cm}$
Calculated Volume: 52.3 million gallons
Permittable Volume: 0.0 million gallons

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|-------------|---------------------|-------------------|--------------------|---------------|---------------------|
| Fyke Net | Jul 7- Aug 4, 95 | 641.3 | Broad whitefish | 1,071 | 37-325 |
| | | | Humpback whitefish | 152 | 31-410 |
| | | | Round whitefish | 211 | 56-267 |
| | | | Least cisco | 1,462 | 31-327 |
| | | | Arctic grayling | 10 | 71-194 |
| | | | Rainbow smelt | 130 | 24-83 |
| | | | Burbot | 2 | 179-227 |
| | | | Longnose sucker | 30 | 68-330 |
| | | | Fourhorn sculpin | 54 | |
| | | | 9spine stickleback | 244 | |
| | | | 3spine stickleback | 1 | 83 |
| Minnow Trap | Jul 12 95 | 41.8 | None | 0 | |
| Set Line | Jul 12 95 | 21.1 | None | 0 | |



S8.1
(L9277)
70° 21.12'N 150° 48.63'W



0 300 600 900 1200 1500 ft

A horizontal scale bar with black segments and white gaps between numerical markings. The markings are labeled at 0, 300, 600, 900, 1200, and 1500 feet.

Lake S8.1

Other Names: L9277; M9309
Location: 70°21.12'N 150°48.63'W
USGS Quad Sheet: Harrison Bay B-2: T12N R5E, Sect 35
Habitat: Perched Lake (Infrequent Flooding)
Area: 30 acres
Maximum Depth: 10 feet
Active Outlet: No
Calculated Volume: 32.7 million gallons
Permittable Volume: 1.5 million gallons

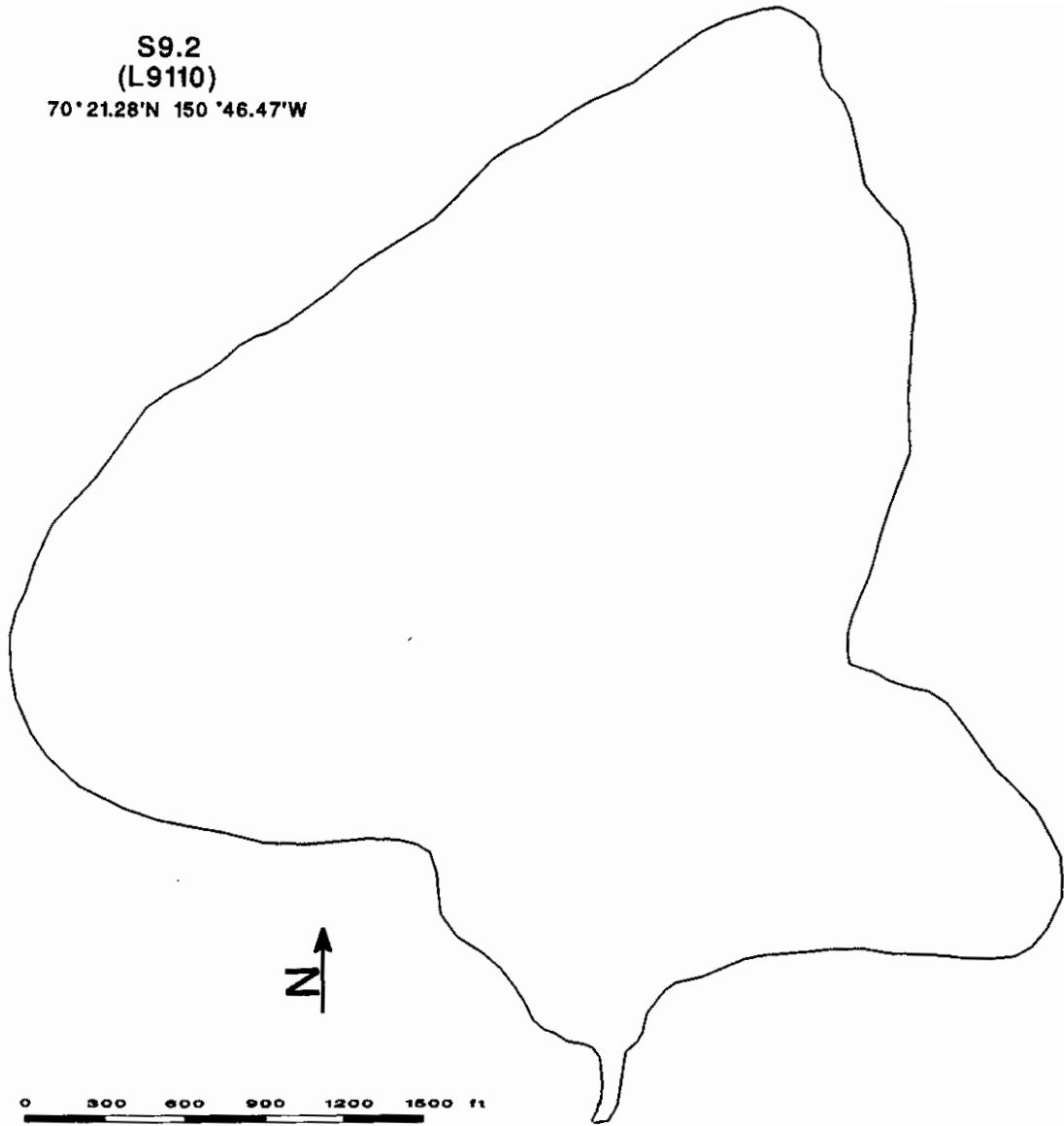
Water Quality:

| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------------|-------------------|------------------|---------------------|-------------------|---|--|------------|
| 1992 | 12 | 5.5 | 5.4 | 14 | 57 | 120 | J. Lobdell |

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|-------------|----------|-------------------|------------------|------------------|---------------------|
| Gill Net | Nov 3 93 | 22.5 | Least cisco | 1 | 326 |
| | | | Alaska blackfish | 1 | 97 |
| Minnow Trap | Nov 3 93 | 22.5 | Alaska blackfish | 3 | 87-94 |

S9.2
(L9110)
70°21.28'N 150°46.47'W



Lake S9.2

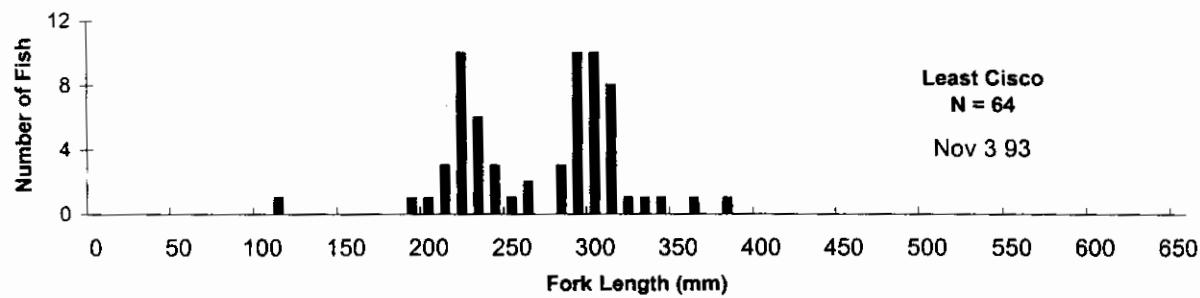
Other Names: L9110; M9308
Location: 70°21.28'N 150°46.47'W
USGS Quad Sheet: Harrison Bay B-2: T12N R5E, Sect 36
Habitat: Perched Lake (Frequent Flooding)
Area: 209 acres
Maximum Depth: 14 feet
Active Outlet: No
Calculated Volume: 314.2 million gallons
Permittable Volume: 23.6 million gallons

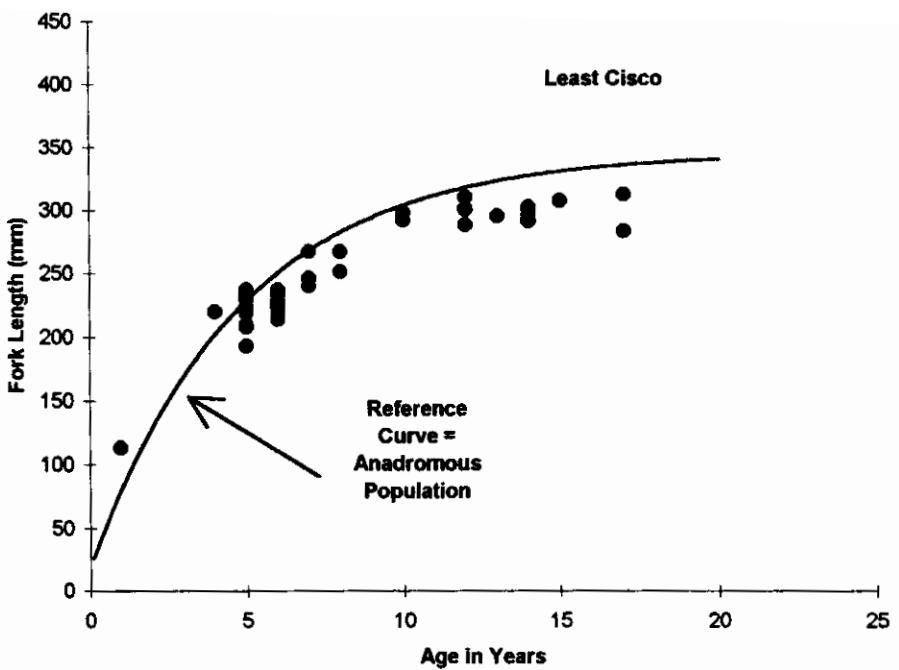
Water Quality:

| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------------|-------------------|------------------|---------------------|-------------------|---|--|------------|
| 1991 | 20 | 12.0 | 2.8 | 309 | 21 | 116 | J. Lobdell |

Catch Record:

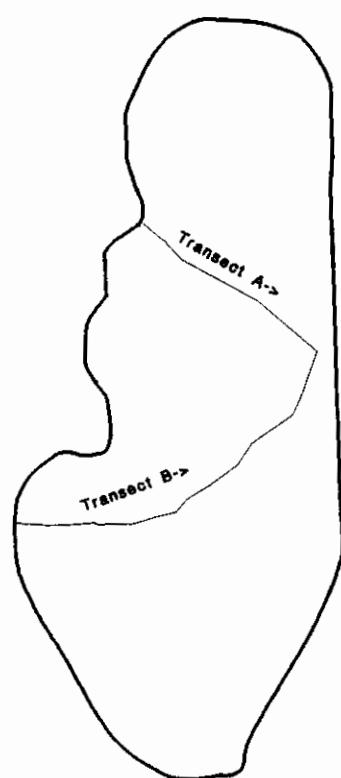
| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|-------------|----------|-------------------|-----------------|------------------|---------------------|
| Gill Net | Nov 3 93 | 20.3 | Broad whitefish | 2 | 390, 430 |
| | | | Least cisco | 64 | 113-380 |
| Minnow Trap | Nov 3 93 | 20.3 | None | 0 | |





T2.2
(M9716)
70°20.43'N 151°06.00'W

Sampled Aug 12, 1997

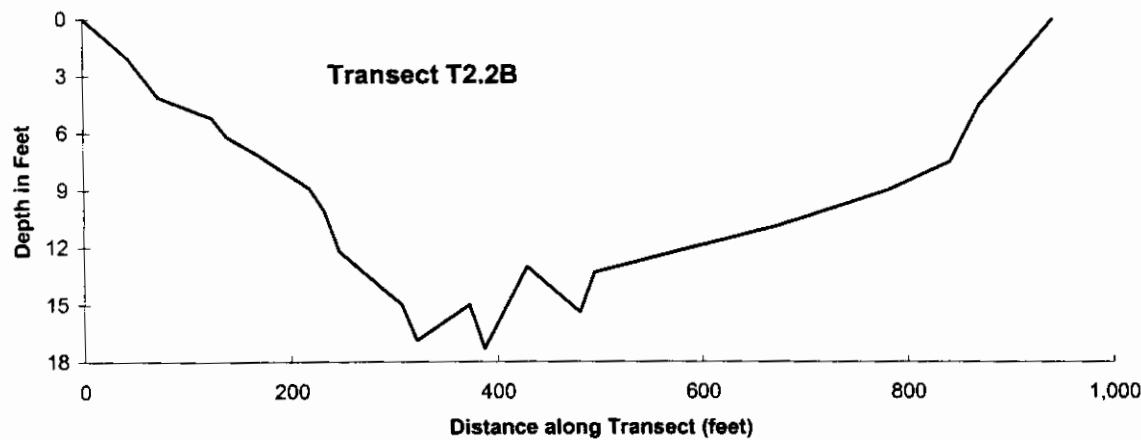
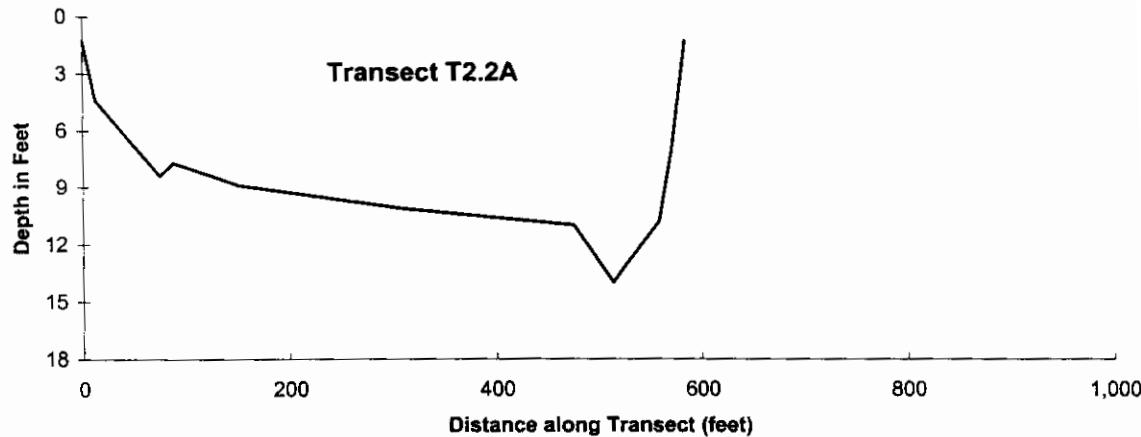


Lake T2.2

Other Names: M9716
Location: 70°20.43'N 151° 6.00'W
USGS Quad Sheet: Harrison Bay B-2: T11N R4E, Sect 3
Habitat: Perched Lake (Infrequent Flooding)
Area: 13 acres
Maximum Depth: 17.3 feet
Active Outlet: No
Spec. Conductance: 86 µS/cm
pH: 8.1
Calculated Volume: 24.7 million gallons
Permittable Volume: 2.2 million gallons

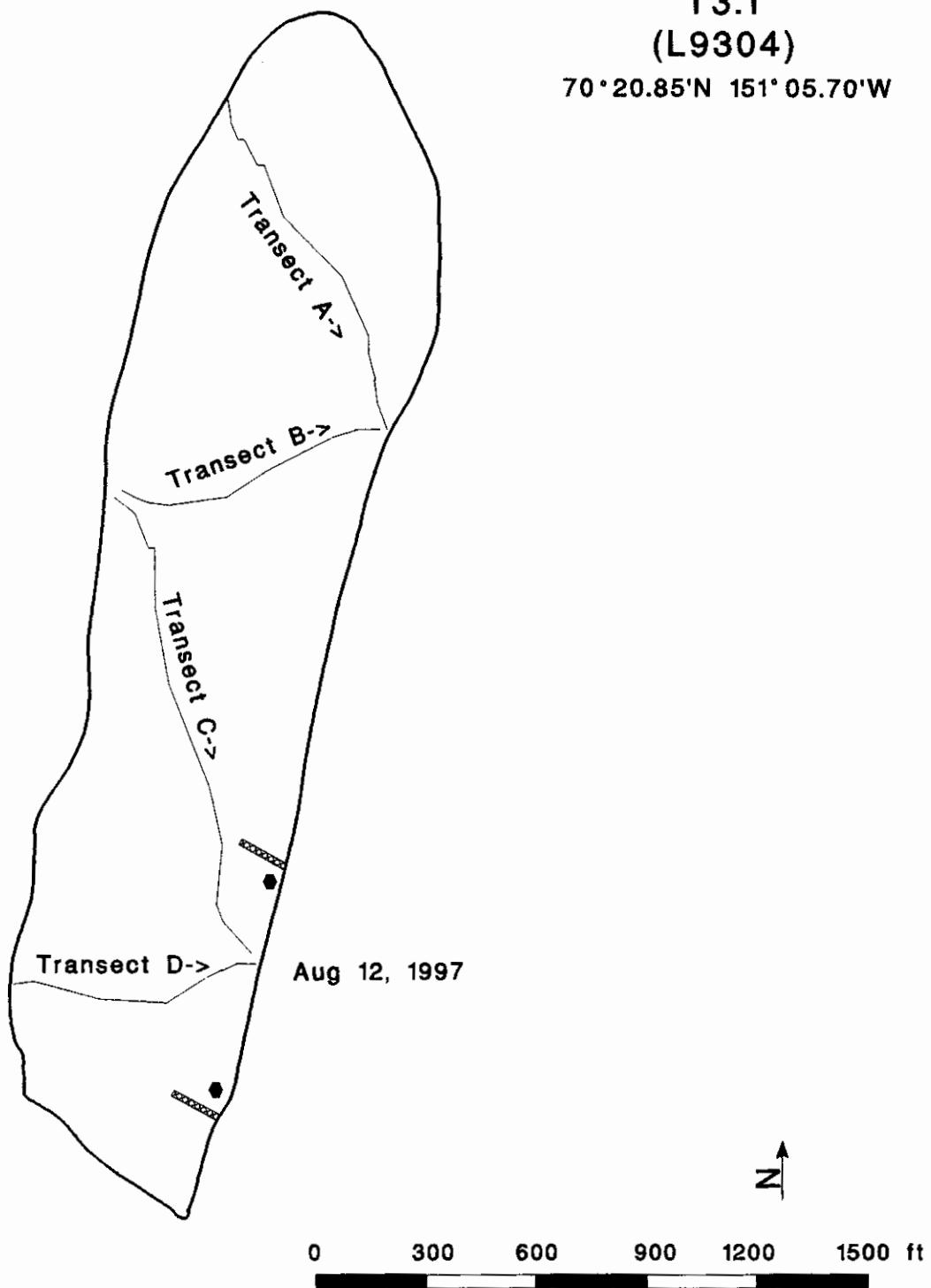
Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|-------------|-----------|-------------------|--------------------|---------------|
| Gillnet | Aug 12 97 | 6.8 | None | 0 |
| Minnow Trap | Aug 12 97 | 6.1 | 9spine stickleback | 6 |



T3.1
(L9304)

70°20.85'N 151°05.70'W



Lake T3.1

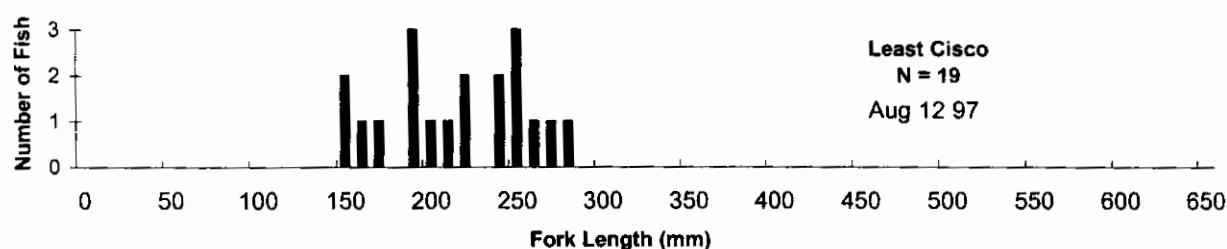
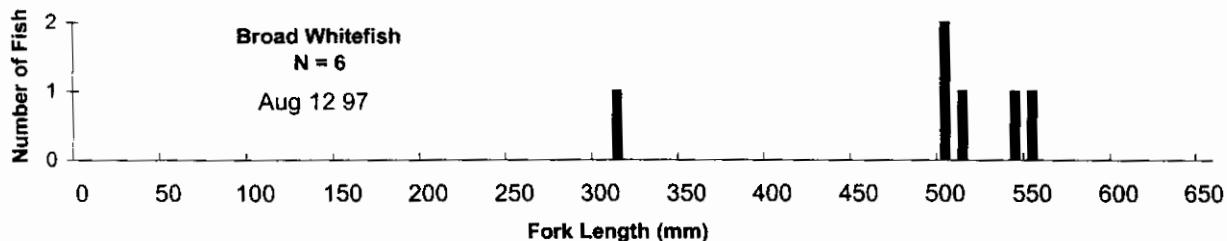
Other Names: L9304
Location: 70°20.85'N 151° 5.70'W
USGS Quad Sheet: Harrison Bay B-2: T12N R4E, Sect 34
Habitat: Perched Lake (Infrequent Flooding)
Area: 55 acres
Maximum Depth: 15.3 feet
Active Outlet: No
Spec. Conductance: $\mu\text{S}/\text{cm}$
pH: 7.9
Calculated Volume: 90.3 million gallons
Permittable Volume: 7.3 million gallons

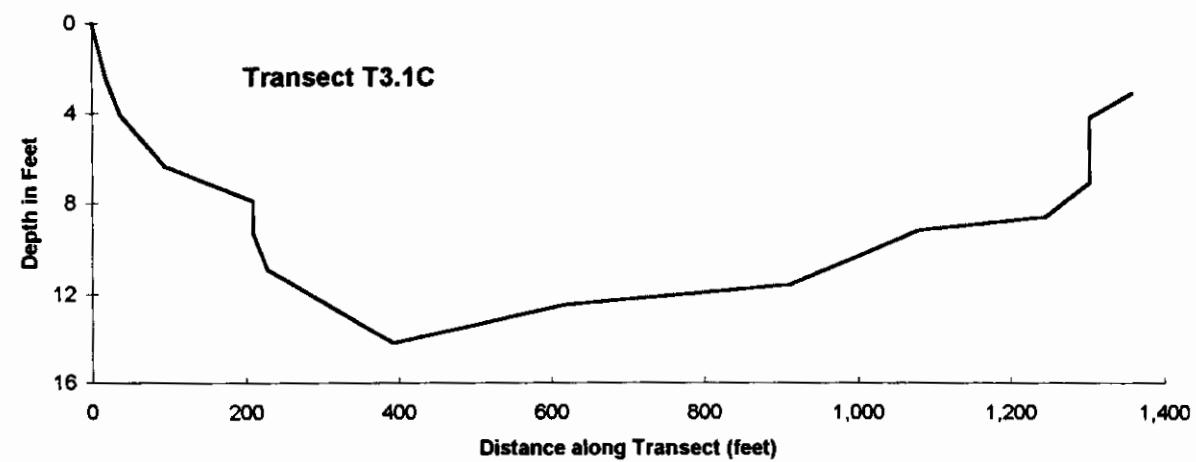
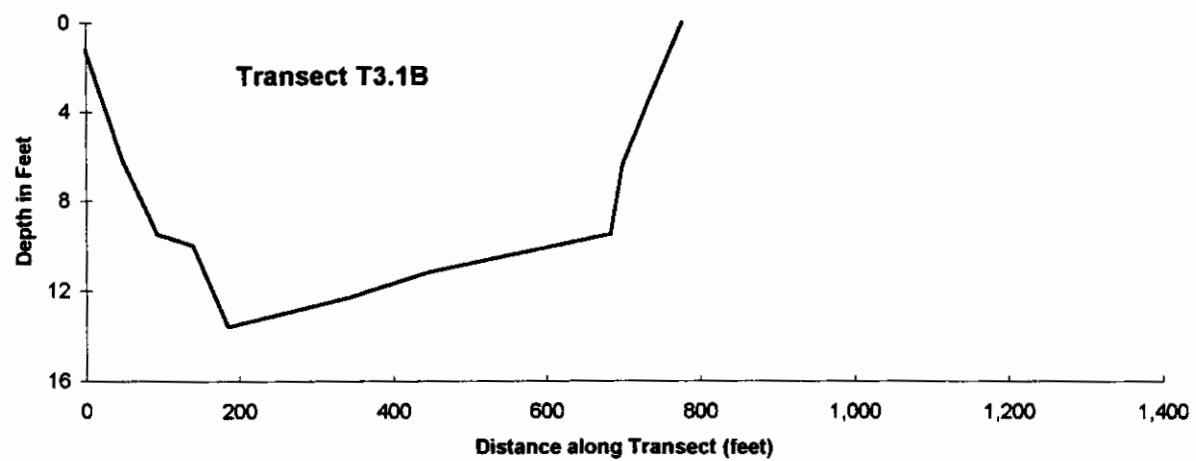
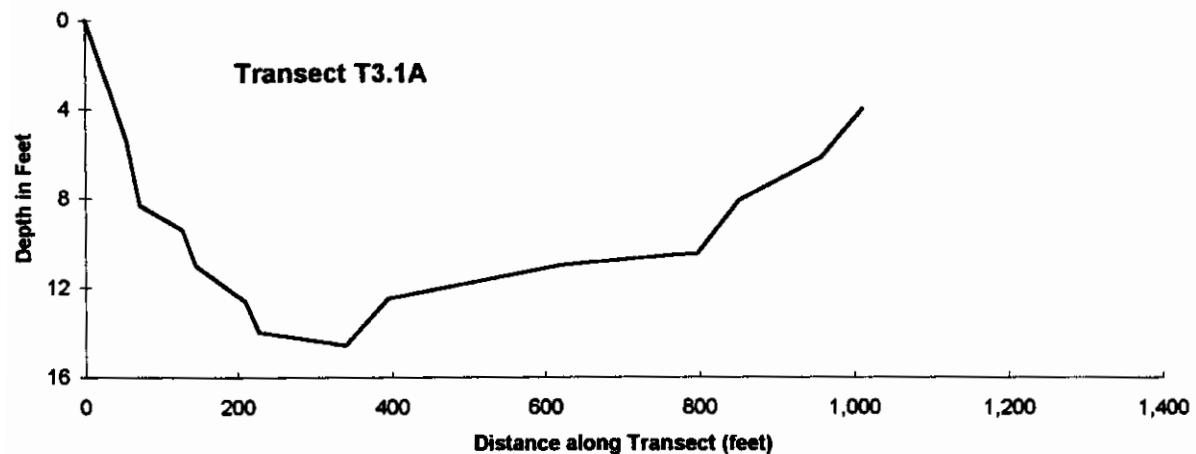
Water Quality:

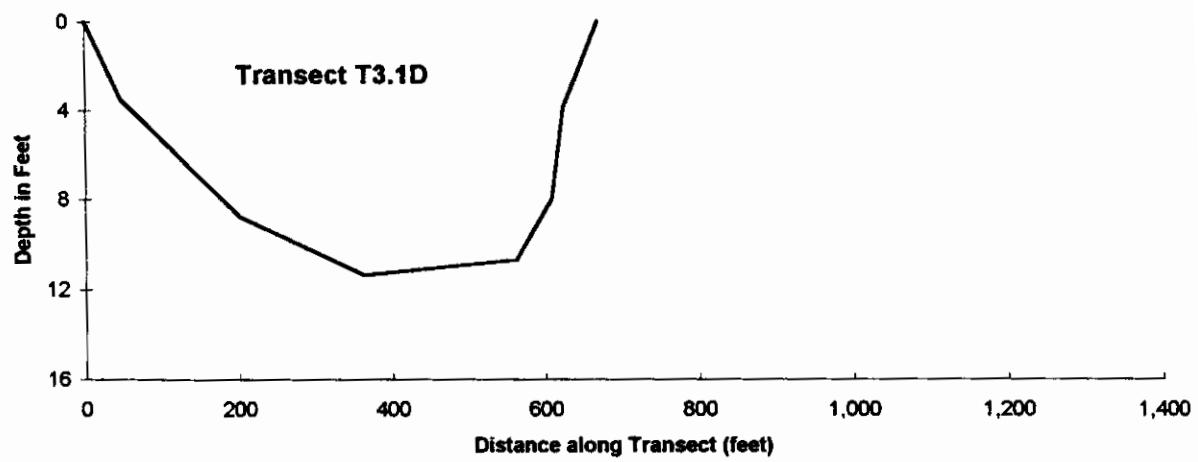
| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------|----------------|---------------|------------------|----------------|--|-------------------------------|------------|
| 1995 | 36 | 34.0 | 4.2 | 13 | 49 | 95 | J. Lobdell |

Catch Record:

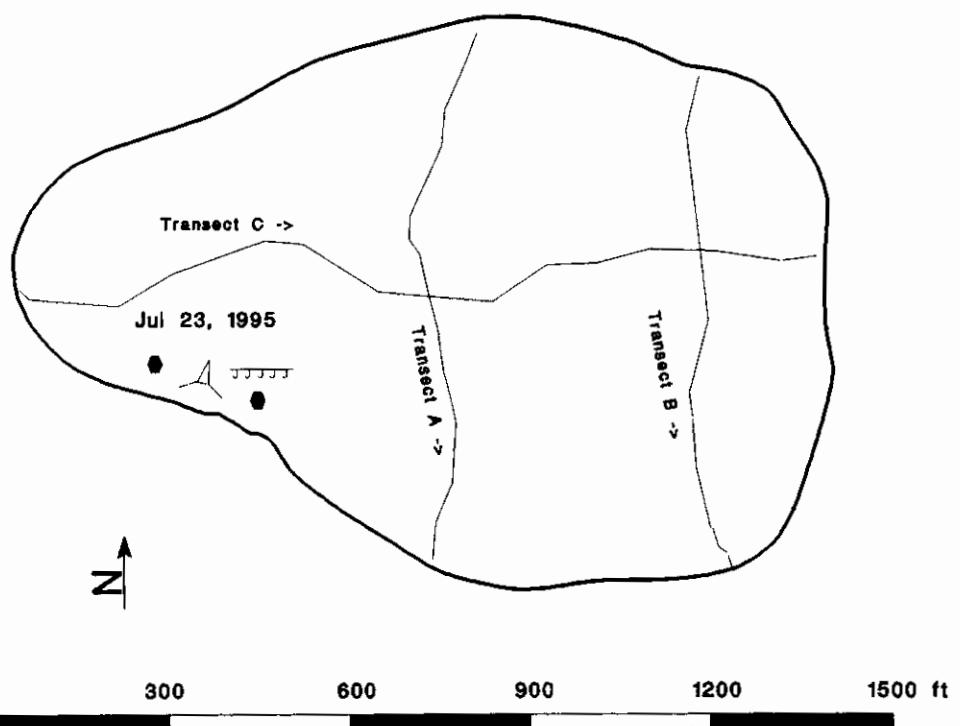
| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|-------------|-----------|----------------|-----------------|---------------|------------------|
| Gill Net | Aug 12 97 | 9.0 | Broad whitefish | 6 | 310-554 |
| | | | Least cisco | 19 | 150-280 |
| Minnow Trap | Aug 12 97 | 8.0 | None | 0 | |







T4.2
(L9322)
70°20.28'N 151°01.75'W



Lake T4.2

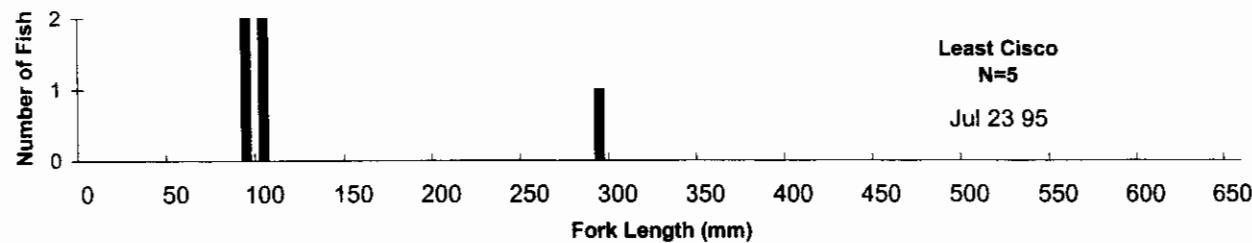
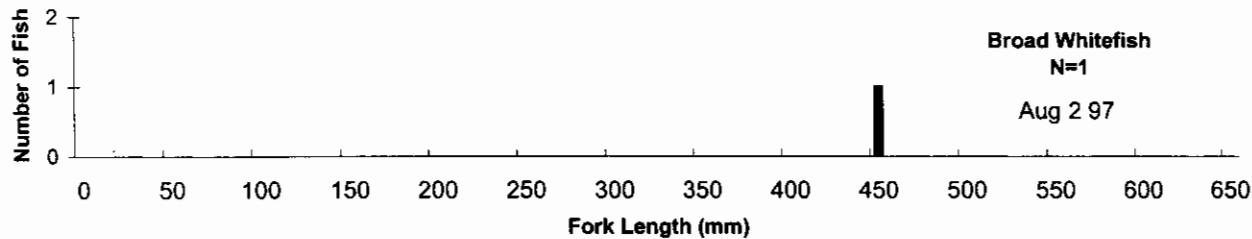
Other Names: L9322
Location: 70°20.28'N 151°01.75'W
USGS Quad Sheet: Harrison Bay B-2: T11N R4E, Sect 1
Habitat: Perched Lake (Infrequent Flooding)
Area: 19 acres
Maximum Depth: 11.5 feet
Active Outlet: No
Spec. Conductance: 80 $\mu\text{S}/\text{cm}$
pH: 8.0
Calculated Volume: 23.6 million gallons
Permittable Volume: 1.4 million gallons

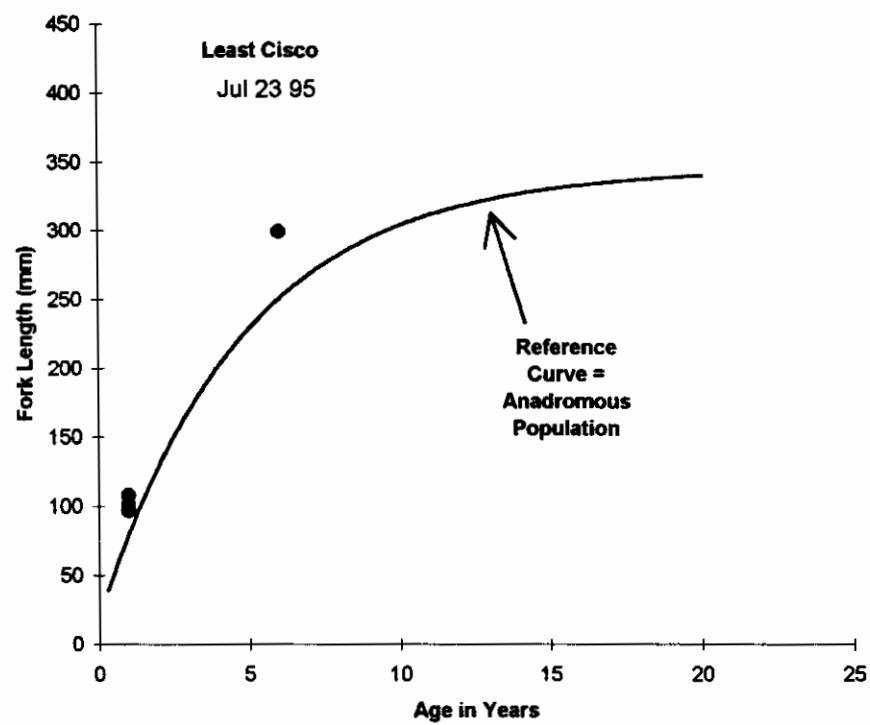
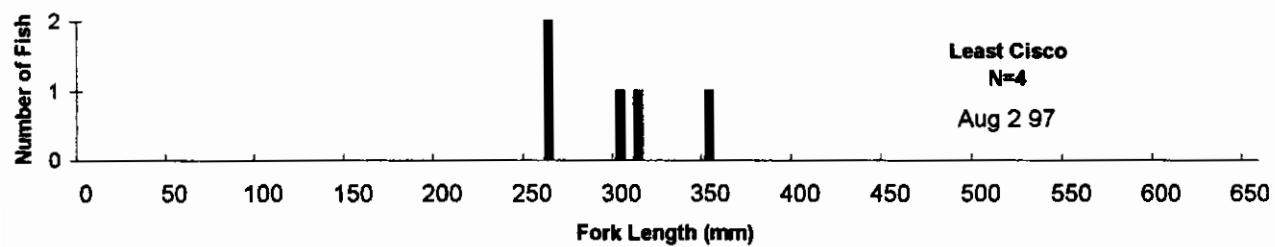
Water Quality:

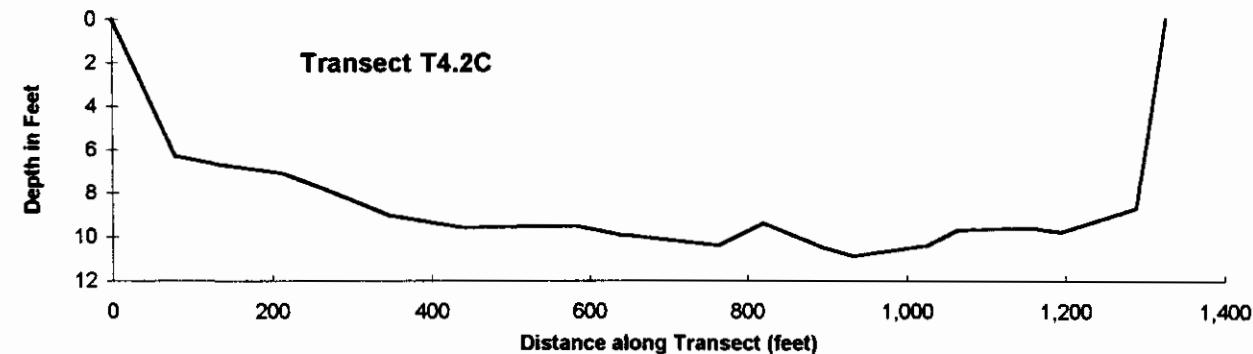
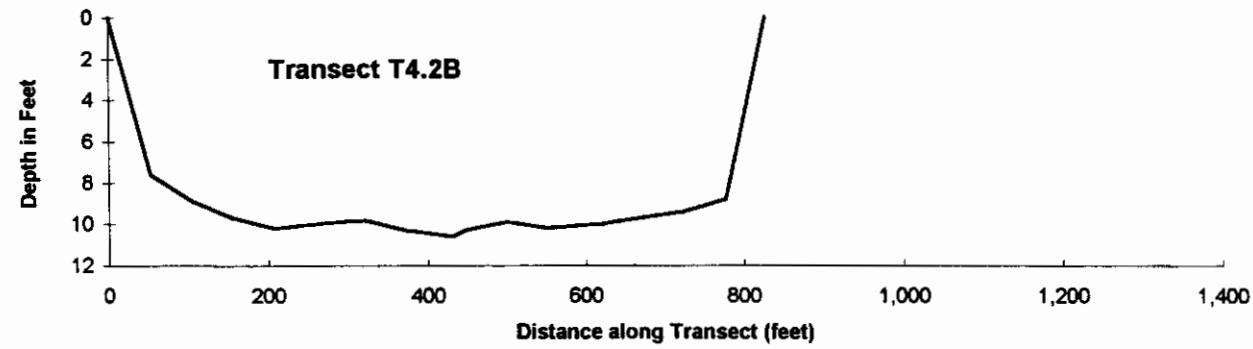
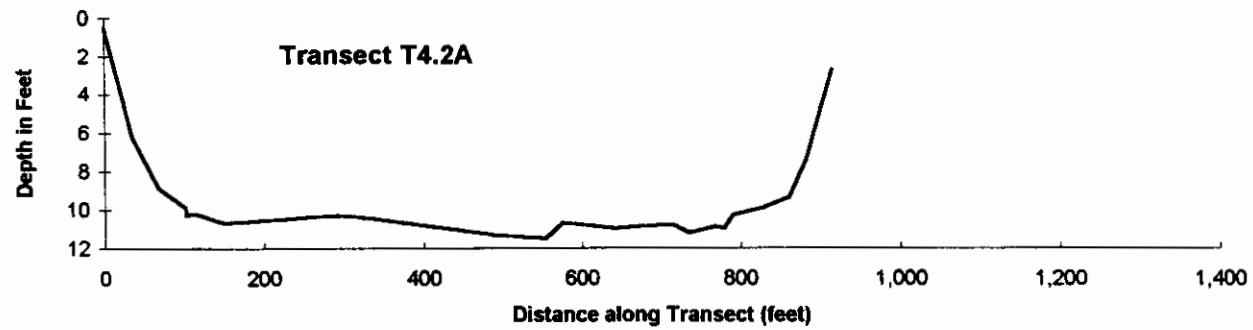
| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------|----------------|---------------|------------------|----------------|--|-------------------------------|------------|
| 1993 | 7 | 5.6 | 1.7 | 4.3 | 18 | 110 | J. Lobdell |

Catch Record:

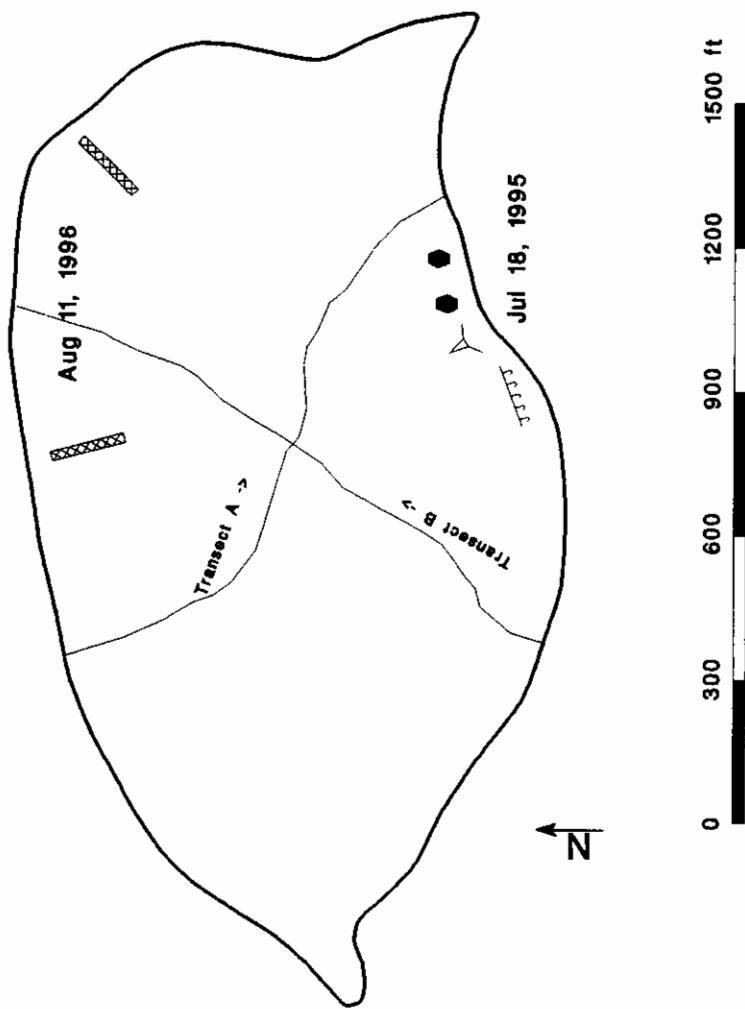
| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|-------------|-----------|----------------|--|---------------|------------------|
| Fyke Net | Jul 23 95 | 44.9 | Least cisco | 5 | 97-299 |
| Minnow Trap | Jul 23 95 | 89.6 | Alaska blackfish 9spine stickleback | 2 | |
| Set Line | Jul 23 95 | 44.5 | None | 0 | |
| Gillnet | Aug 2 97 | 3.9 | Broad whitefish Least cisco | 1 5 | 458 261-357 |
| Minnow Trap | Aug 2 97 | 11.7 | 9spine stickleback | 1 | |







T4.3
(L9321)
70°20'56N 151°01'55W



Lake T4.3

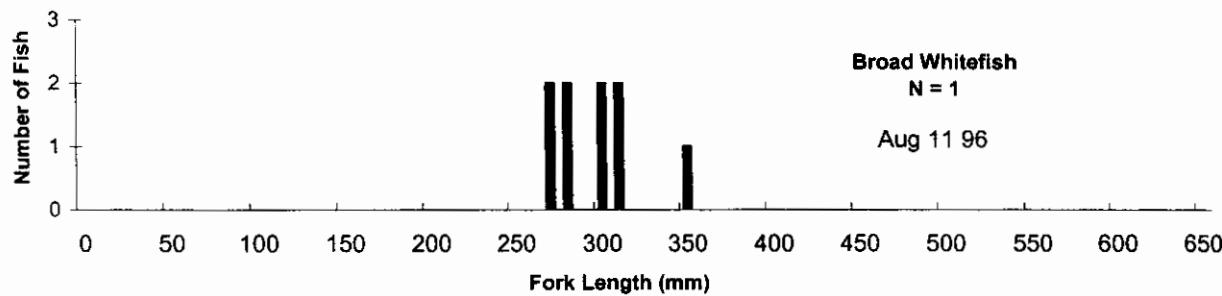
Other Names: L9321
Location: 70°20.56'N 151°01.55'W
USGS Quad Sheet: Harrison Bay B-2: T11N R4E, Sect 1
Habitat: Perched Lake (Infrequent Flooding)
Area: 37 acres
Maximum Depth: 12.3 feet
Active Outlet: No
Spec. Conductance: 139 $\mu\text{S}/\text{cm}$
pH: 7.9
Calculated Volume: 49.0 million gallons
Permittable Volume: 3.2 million gallons

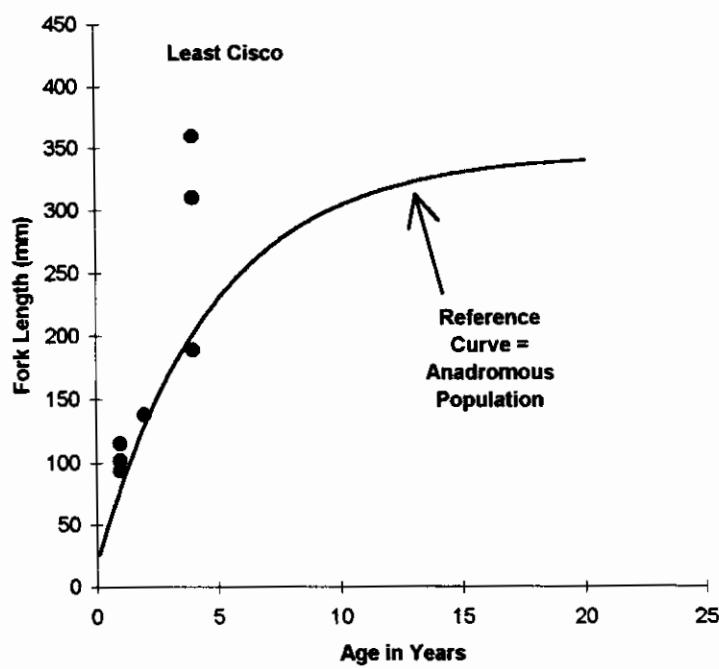
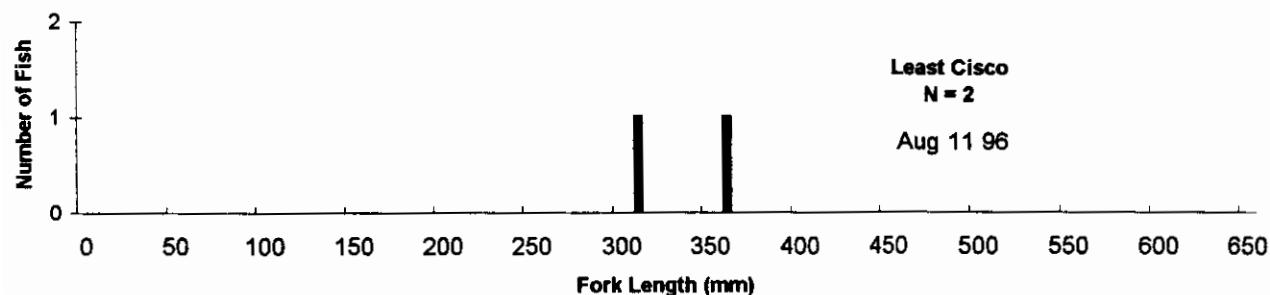
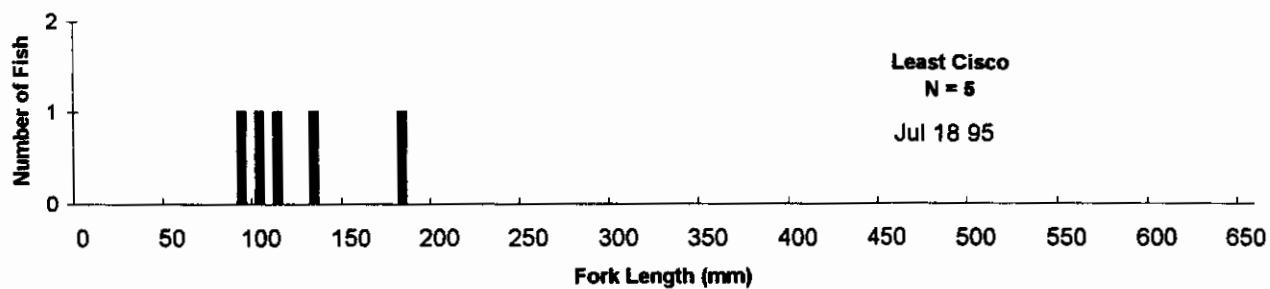
Water Quality:

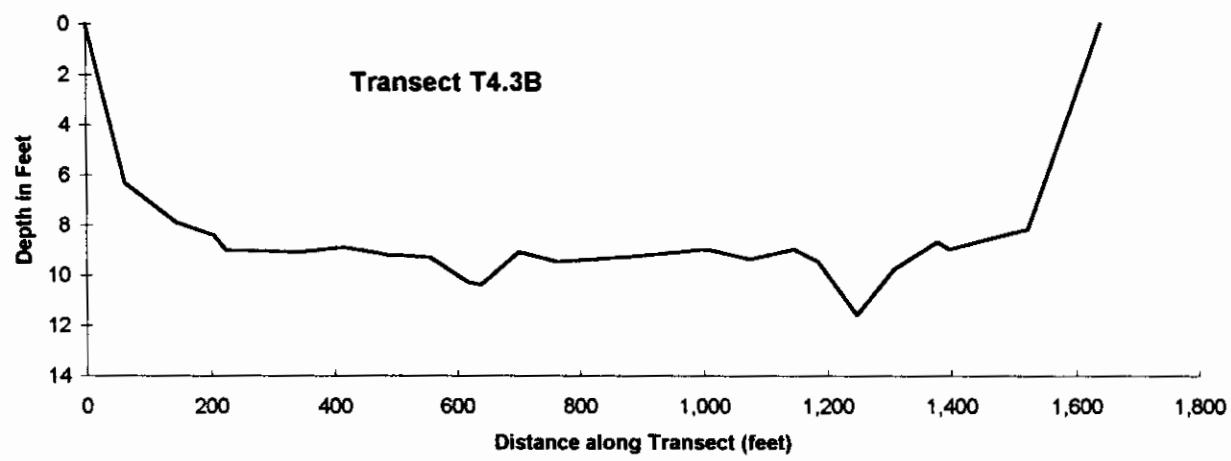
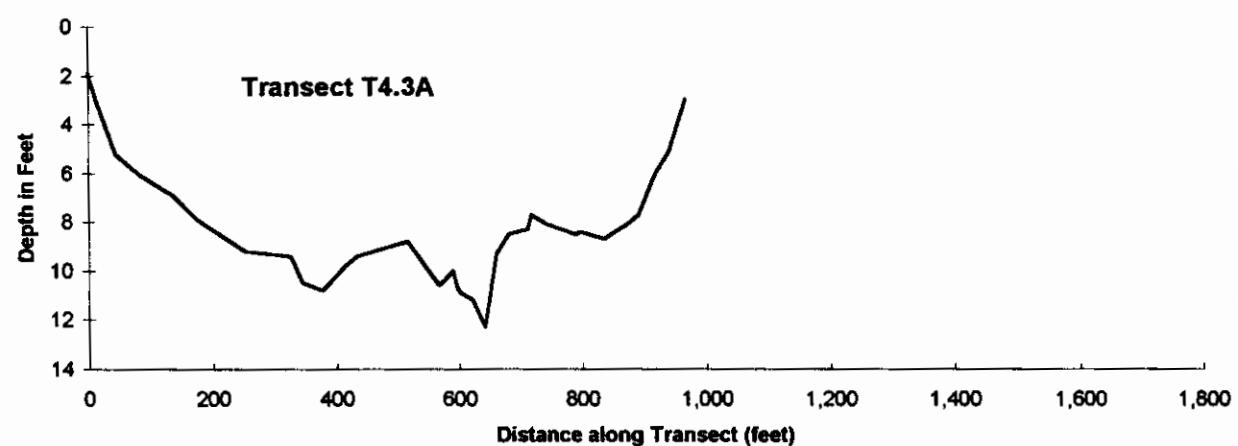
| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------|----------------|---------------|------------------|----------------|--|-------------------------------|------------|
| 1993 | 10 | 5.6 | 1.8 | 4.4 | 18 | 90 | J. Lobdell |

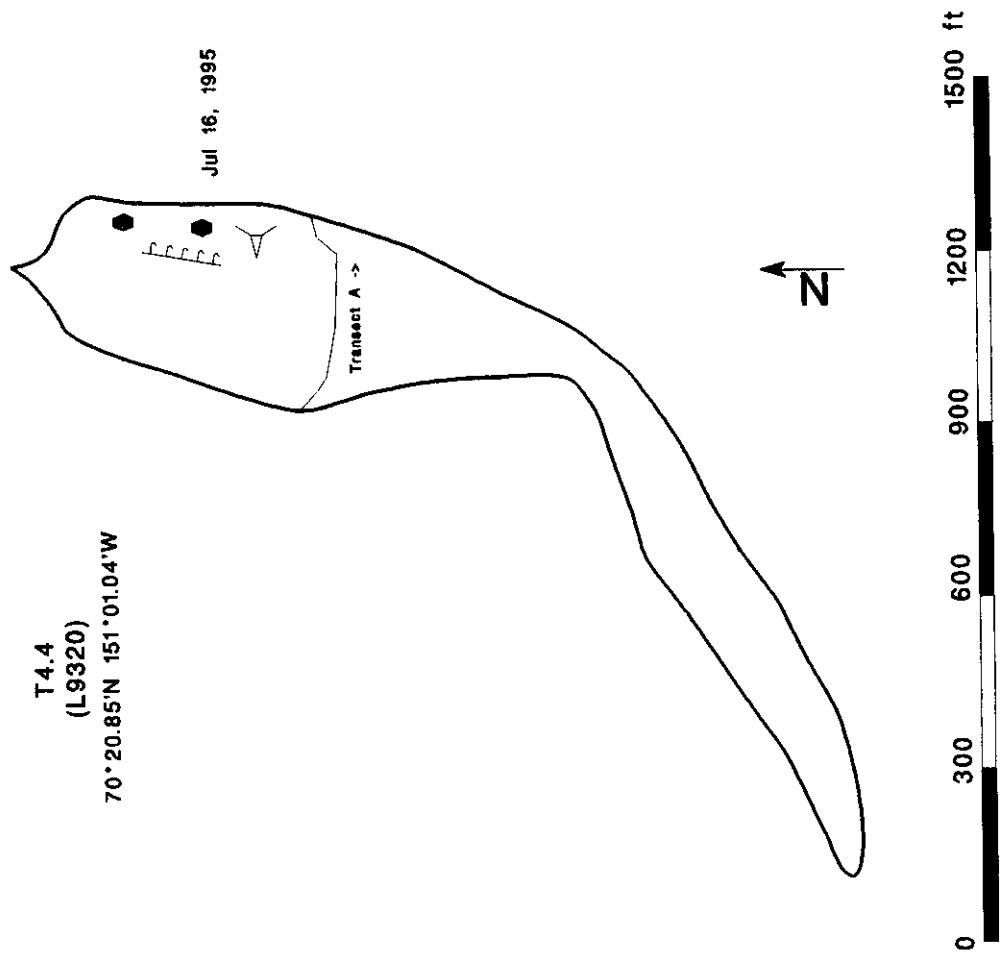
Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|-------------|-----------|----------------|-----------------------------------|---------------|--------------------|
| Fyke Net | Jul 18 95 | 22.4 | Least cisco 9spine stickleback | 5 120 | 94-189 |
| Minnow Trap | Jul 18 95 | 44.8 | 9spine stickleback | 3 | |
| Set Line | Jul 18 95 | 22.4 | None | 0 | |
| Gill Net | Aug 11 96 | 11.5 | Broad whitefish Least cisco | 9 2 | 272-351 310-360 |









Lake T4.4

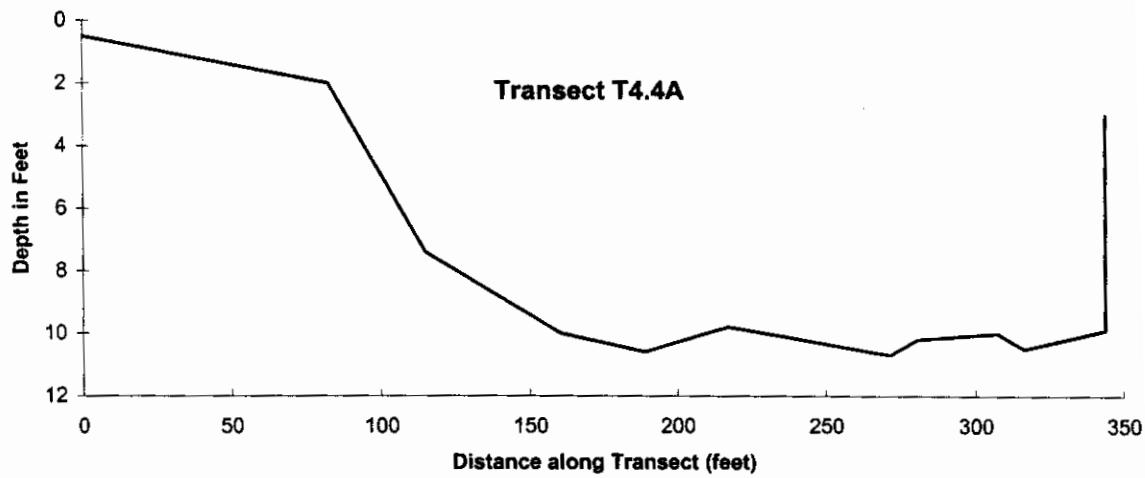
Other Names: L9320
Location: 70°20.85'N 151°01.04'W
USGS Quad Sheet: Harrison Bay B-2: T12N R4E, Sect 36
Habitat: Perched Lake (Infrequent Flooding)
Area: 6 acres
Maximum Depth: 15 feet
Active Outlet: No
Spec. Conductance: 151 $\mu\text{S}/\text{cm}$
Calculated Volume: 9.3 million gallons
Permittable Volume: 0.7 million gallons

Water Quality:

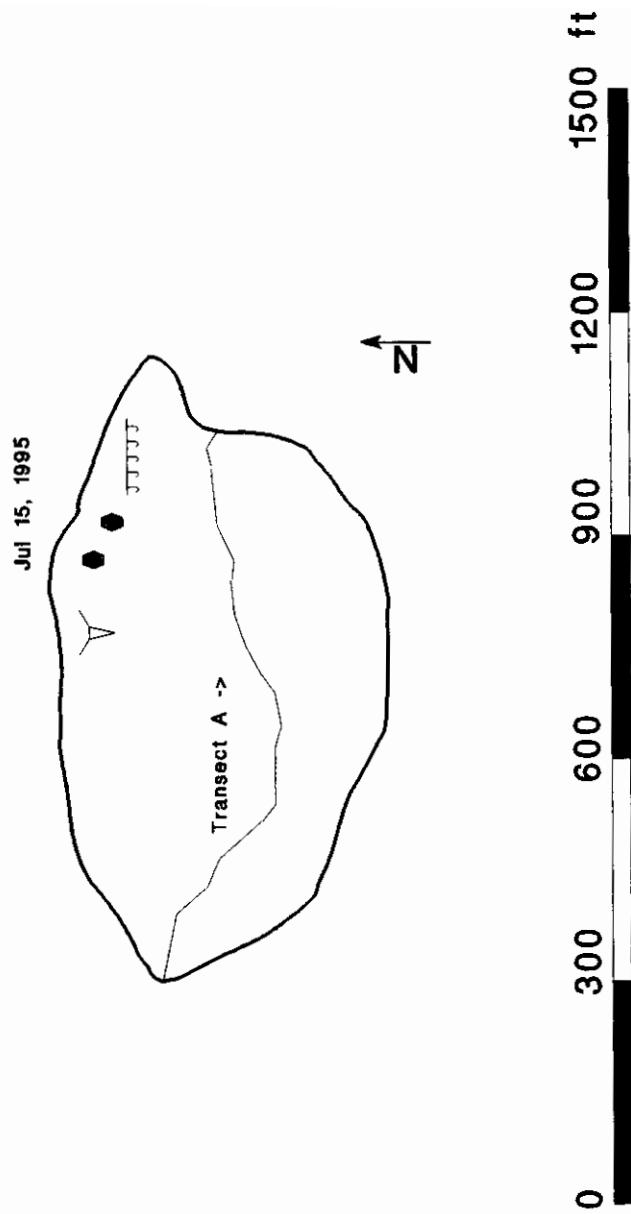
| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------|----------------|---------------|------------------|----------------|--|-------------------------------|------------|
| 1993 | 16 | 9.3 | 2.9 | 6.3 | 28 | 98 | J. Lobdell |

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|-------------|-----------|----------------|--------------------|---------------|
| Fyke Net | Jul 16 95 | 22.1 | Alaska blackfish | 3 |
| | | | 9spine stickleback | 6,320 |
| Minnow Trap | Jul 16 95 | 44.4 | Alaska blackfish | 3 |
| Set Line | Jul 16 95 | 22.1 | None | 0 |



T4.5
(L9319)
70°20.97'N 151°00.33'W



Lake T4.5

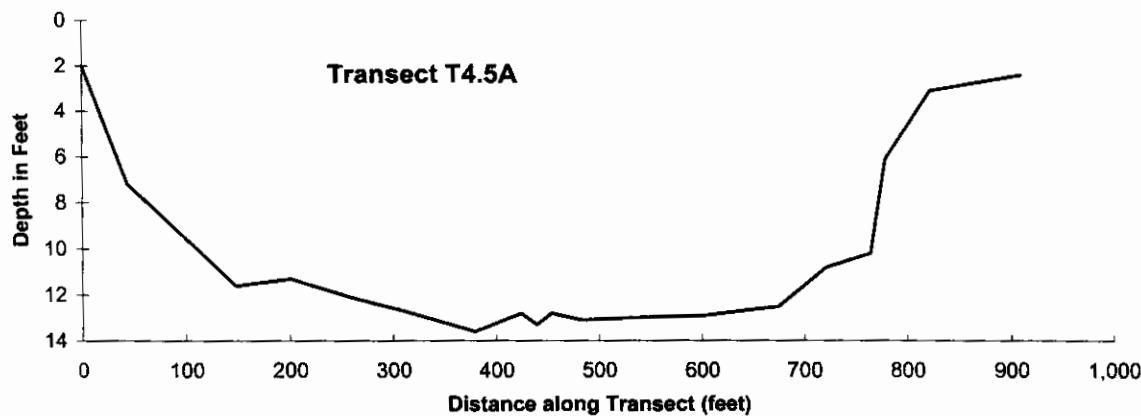
Other Names: L9319
Location: 70°20.97'N 151°00.33'W
USGS Quad Sheet: Harrison Bay B-2: T12N R4E, Sect 36
Habitat: Perched Lake (Infrequent Flooding)
Area: 4 acres
Maximum Depth: 13.6 feet
Active Outlet: No
Spec. Conductance: 119 $\mu\text{S}/\text{cm}$
Calculated Volume: 5.5 million gallons
Permittable Volume: 0.4 million gallons

Water Quality:

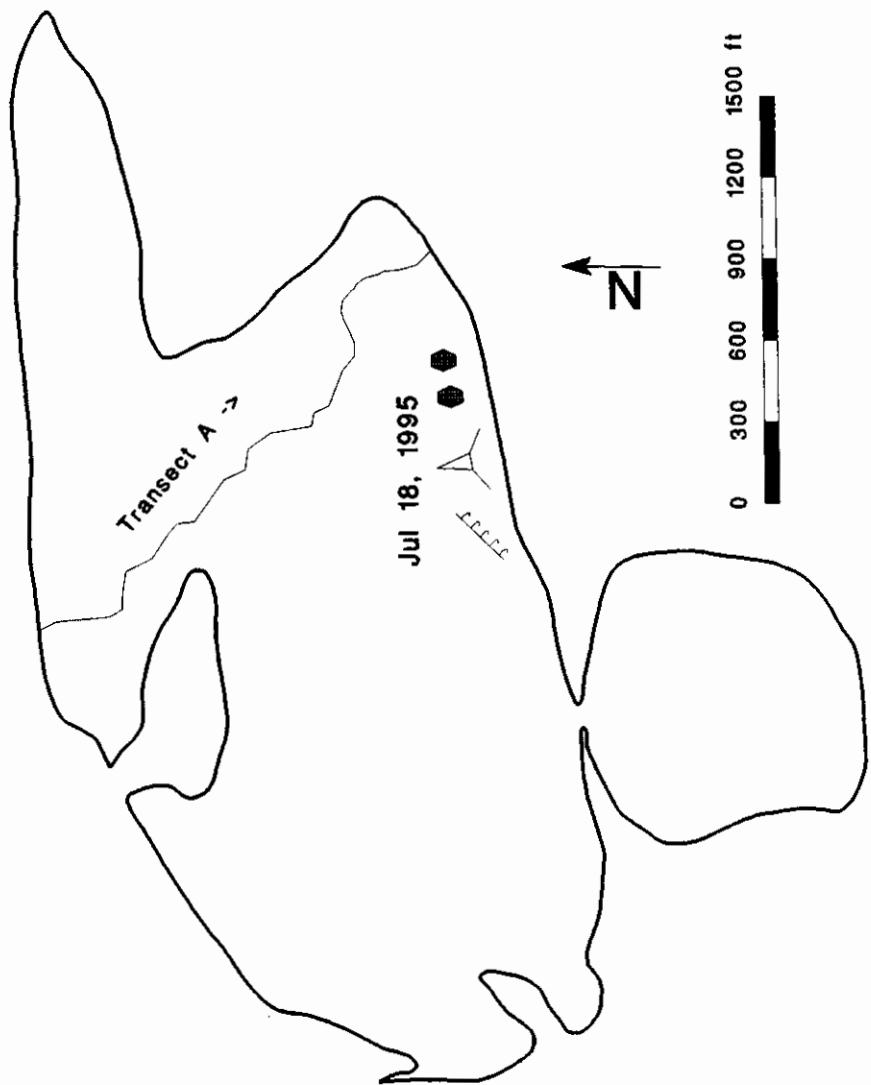
| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------|----------------|---------------|------------------|----------------|--|-------------------------------|------------|
| 1993 | 13 | 8.0 | 2.2 | 4 | 19 | 79 | J. Lobdell |

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|-------------|-----------|----------------|--------------------|---------------|
| Fyke Net | Jul 15 95 | 17.1 | 9spine stickleback | 860 |
| Minnow Trap | Jul 15 95 | 34.5 | Alaska blackfish | 1 |
| Set Line | Jul 15 95 | 17.0 | None | 0 |



T5.1
(M9524)
70°20.05' N 150°59.61' W

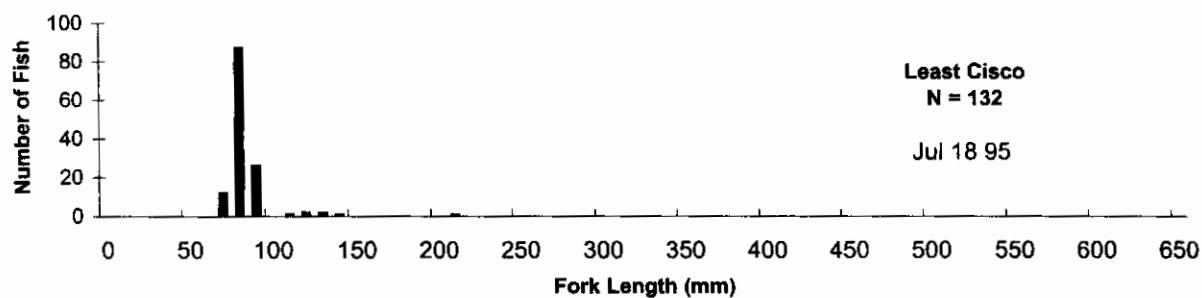


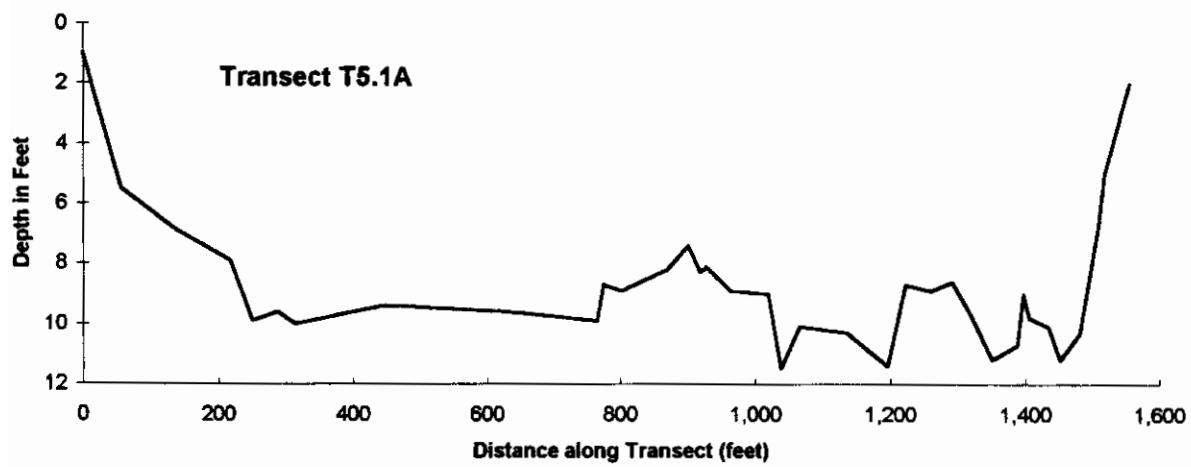
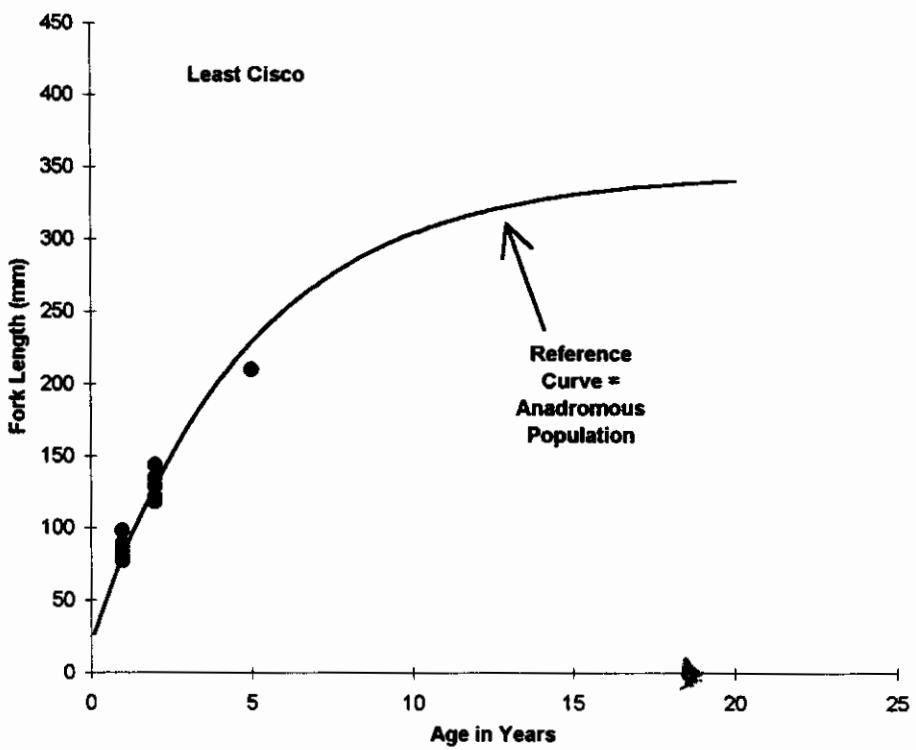
Lake T5.1

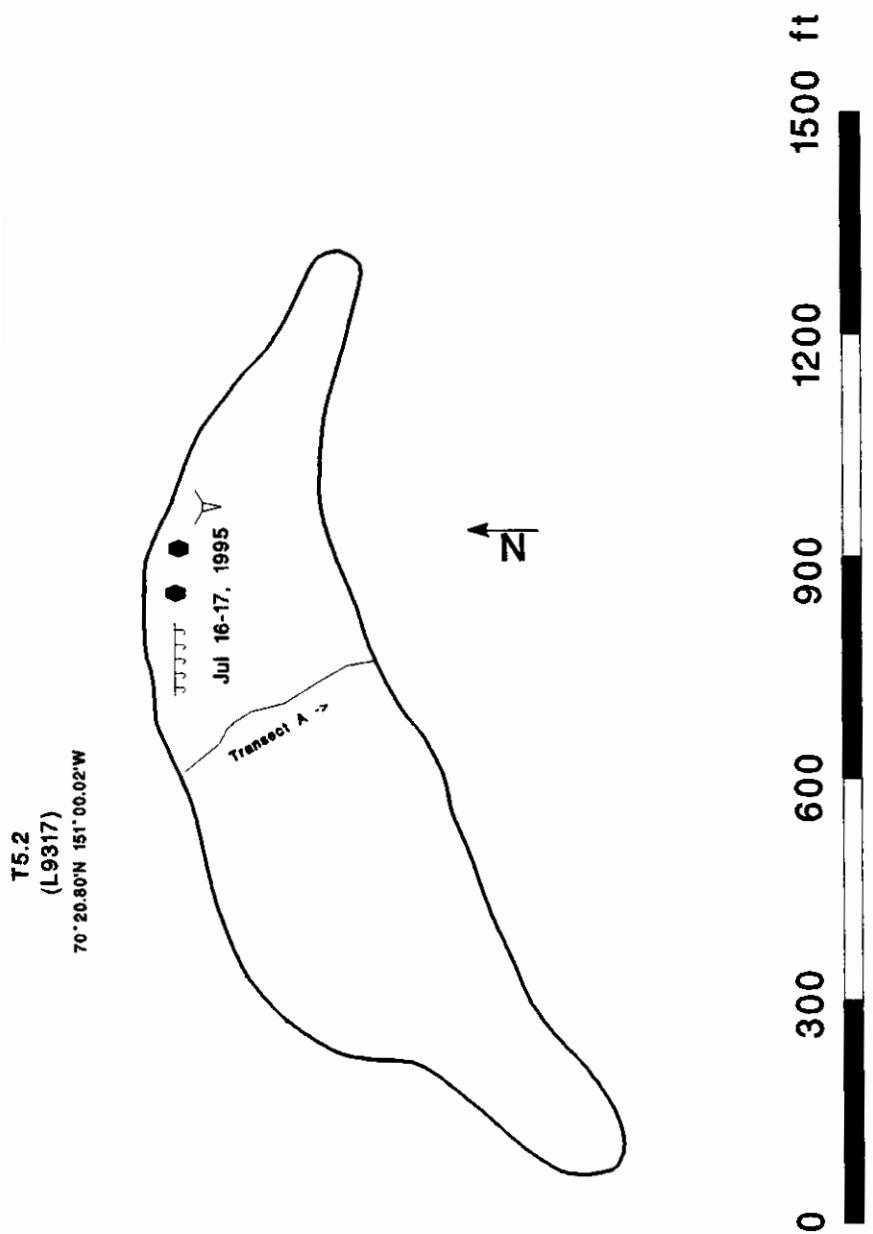
Other Names: M9524
Location: 70°20.05'N 150°59.61'W
USGS Quad Sheet: Harrison Bay B-2: T11N R4E, Sect 1
Habitat: Perched Lake (Frequent Flooding)
Area: 130 acres
Maximum Depth: 11.4 feet
Active Outlet: No
Spec. Conductance: 115 $\mu\text{S}/\text{cm}$
Calculated Volume: 159.0 million gallons
Permittable Volume: 9.2 million gallons

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|-------------|-----------|-------------------|--------------------|---------------|---------------------|
| Fyke Net | Jul 18 95 | 21.2 | Humpback whitefish | 1 | 131 |
| | | | Least cisco | 132 | 73-210 |
| | | | Arctic cisco | 2 | 91, 111 |
| | | | Fourhorn sculpin | 1 | |
| | | | 9spine stickleback | 107 | |
| Minnow Trap | Jul 18 95 | 42.3 | 9spine stickleback | 4 | |
| Set Line | Jul 18 95 | 21.3 | None | 0 | |







Lake T5.2

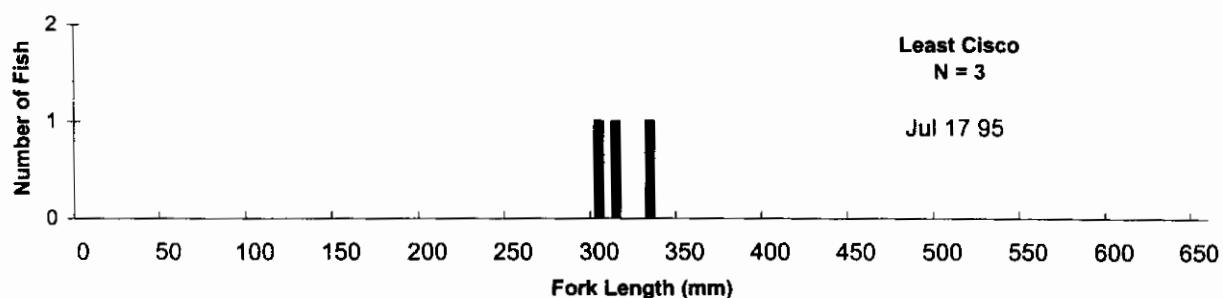
Other Names: L9317
Location: 70°20.80'N 151°00.02'W
USGS Quad Sheet: Harrison Bay B-2: T12N R4E, Sect 36
Habitat: Perched Lake (Infrequent Flooding)
Area: 7 acres
Maximum Depth: 14.7 feet
Active Outlet: No
Spec. Conductance: 137 $\mu\text{S}/\text{cm}$
Calculated Volume: 10.9 million gallons
Permittable Volume: 0.9 million gallons

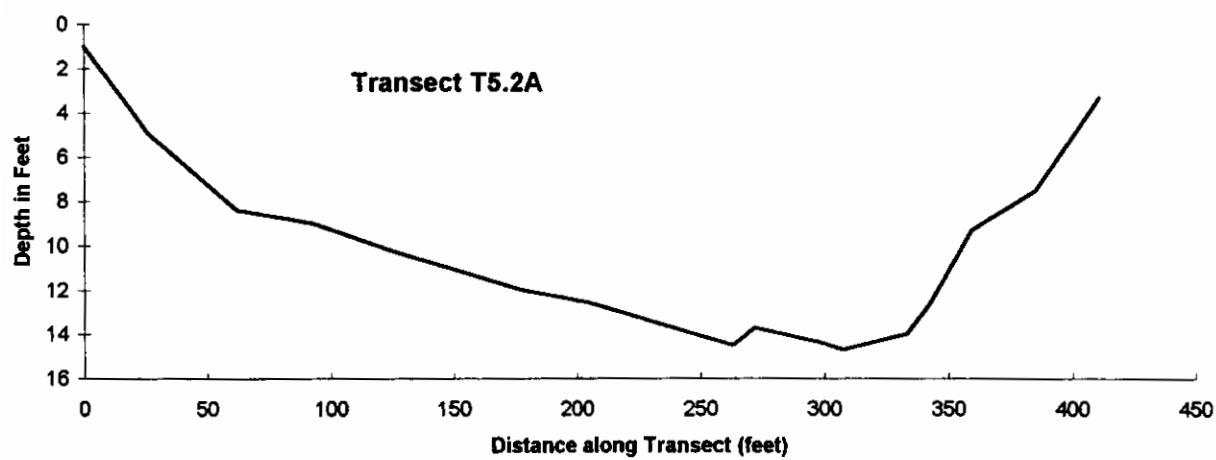
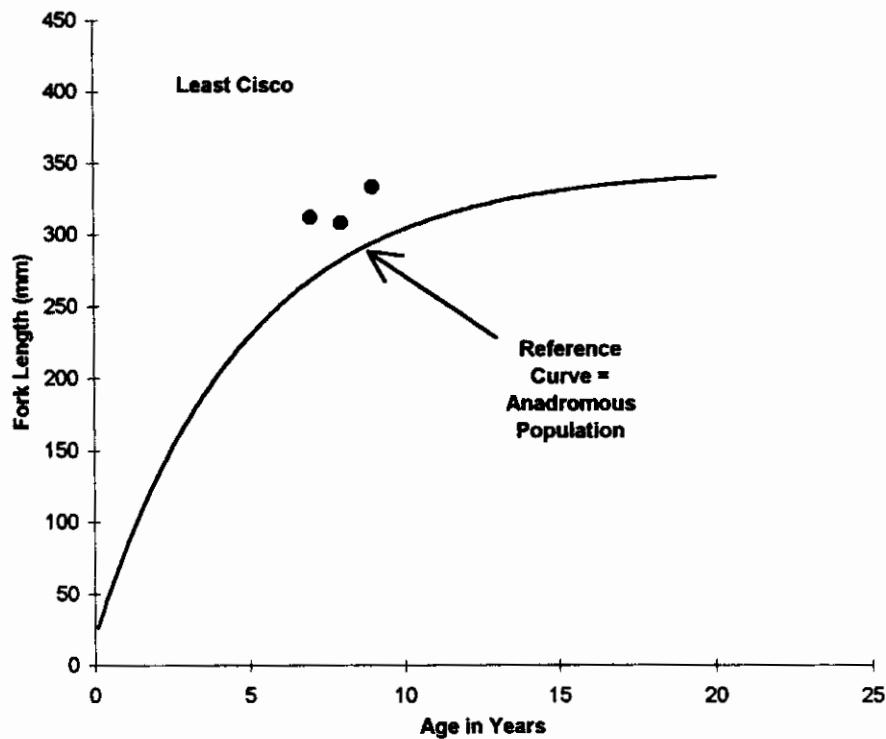
Water Quality:

| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------|----------------|---------------|------------------|----------------|--|-------------------------------|------------|
| 1993 | 14 | 7.8 | 2 | 3.8 | 18 | 34 | J. Lobdell |

Catch Record:

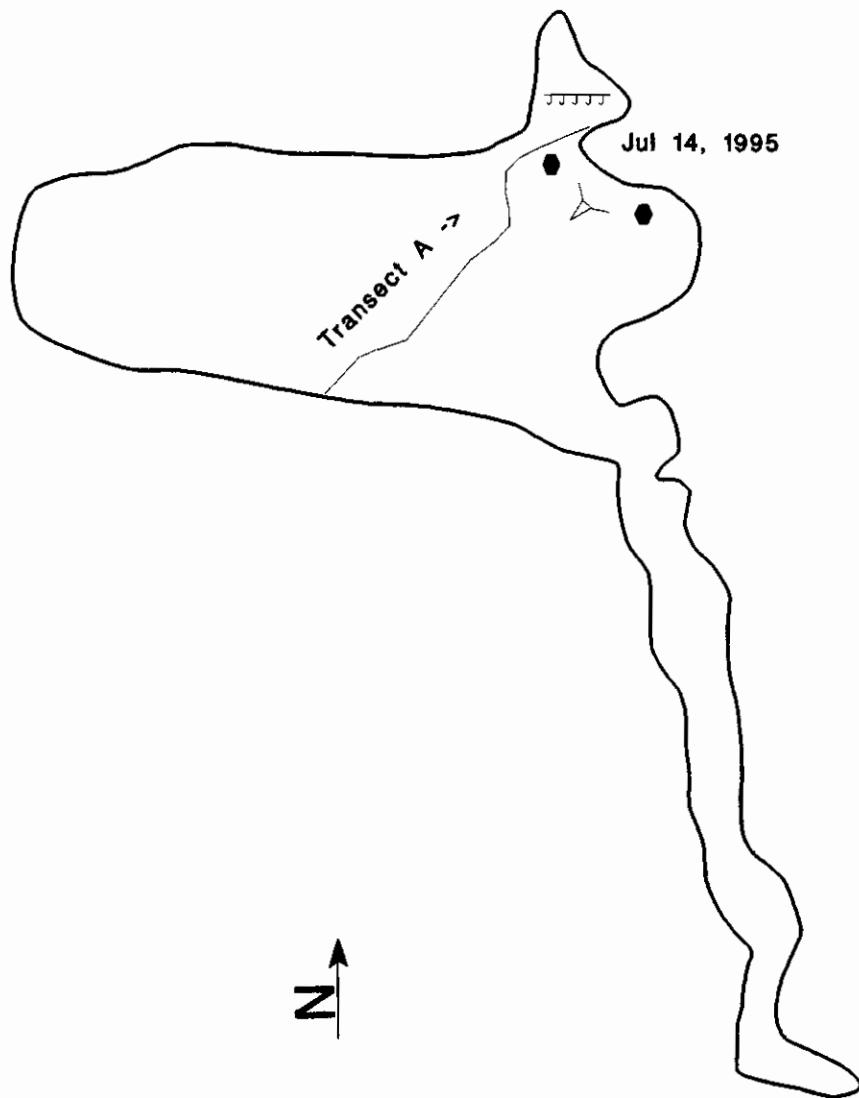
| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|-------------|-----------|----------------|---|---------------|------------------|
| Fyke Net | Jul 16 95 | 23.3 | Alaska blackfish 9spine stickleback | 1 1,155 | |
| Fyke Net | Jul 17 95 | 23.6 | Least cisco Alaska blackfish 9spine stickleback | 3 1 140 | 308-333 |
| Minnow Trap | Jul 16 95 | 46.2 | 9spine stickleback | 3 | |
| Set Line | Jul 16 95 | 23.2 | None | 0 | |





T5.3
(L9318)

70° 21.00'N 150° 59.82'W



0 300 600 900 1200 1500 ft

Lake T5.3

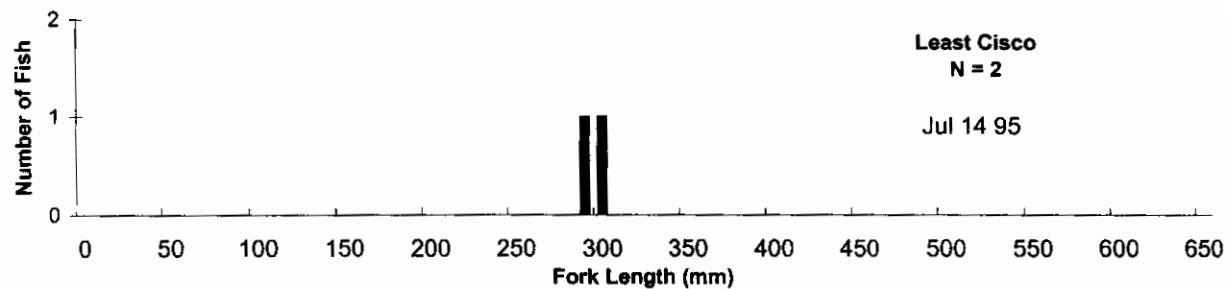
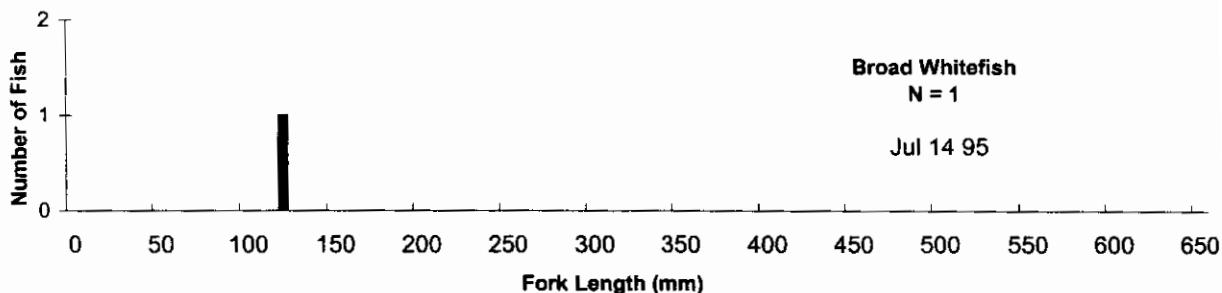
Other Names: L9318
Location: 70°21.00'N 150°59.82'W
USGS Quad Sheet: Harrison Bay B-2: T12N R4E, Sect 36
Habitat: Perched Lake (Infrequent Flooding)
Area: 10 acres
Maximum Depth: 10.7 feet
Active Outlet: No
Spec. Conductance: 100 $\mu\text{S}/\text{cm}$
Calculated Volume: 11.7 million gallons
Permittable Volume: 0.6 million gallons

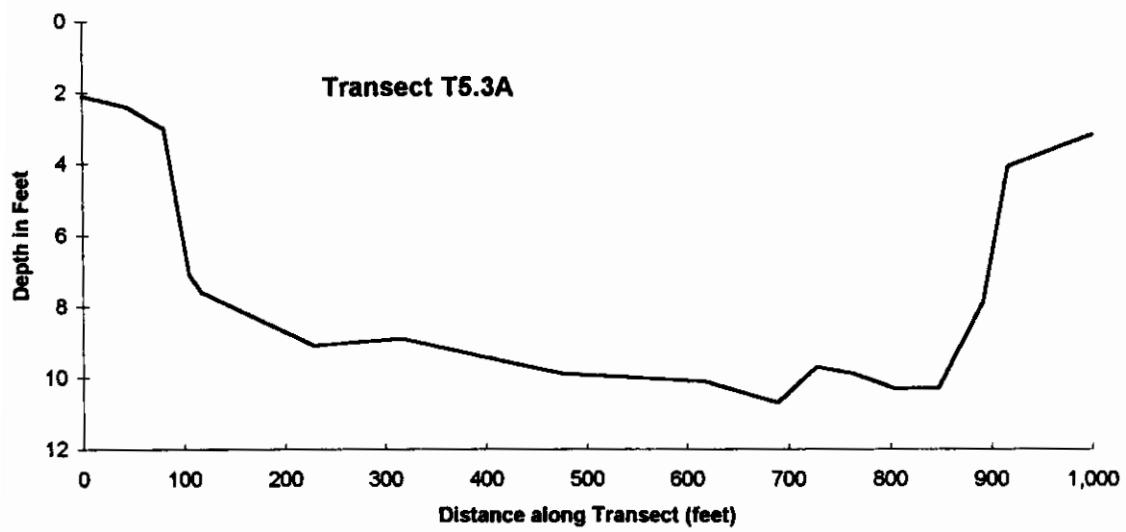
Water Quality:

| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------|----------------|---------------|------------------|----------------|--|-------------------------------|------------|
| 1993 | 14 | 8.3 | 2.1 | 3.8 | 18 | 73 | J. Lobdell |

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|-------------|-----------|----------------|--------------------|---------------|------------------|
| Fyke Net | Jul 14 95 | 24.2 | Broad Whitefish | 1 | 121 |
| | | | Least cisco | 2 | 296, 303 |
| | | | 9spine stickleback | 2,420 | |
| Minnow Trap | Jul 14 95 | 48.0 | None | 0 | |
| Set Line | Jul 14 95 | 24.0 | None | 0 | |





T5.4
(L9316)

70° 20.76'N 150° 59.00'W

Jul 14-15, 1995

Transect A

Nov 6, 1995

N

0 300 600 900 1200 1500 ft

Lake T5.4

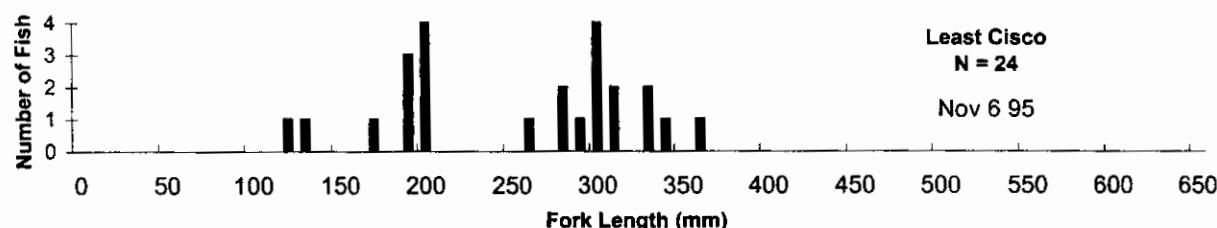
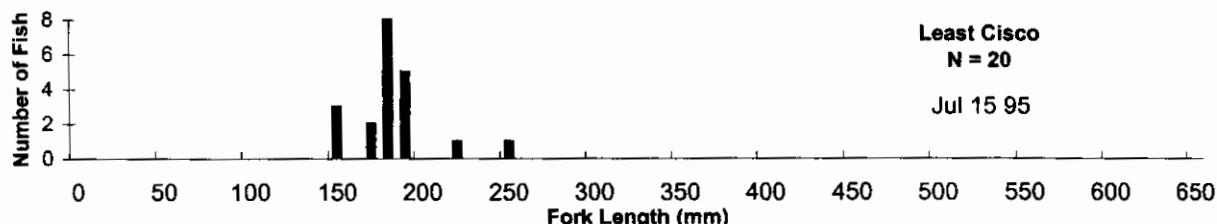
Other Names: L9316
Location: 70°20.76'N 150°59.00'W
USGS Quad Sheet: Harrison Bay B-2: T12N R5E, Sect 31
Habitat: Perched Lake (Frequent Flooding)
Area: 22 acres
Maximum Depth: 12.6 feet
Active Outlet: No
Spec. Conductance: 121 $\mu\text{S}/\text{cm}$
Calculated Volume: 29.9 million gallons
Permittable Volume: 2.0 million gallons

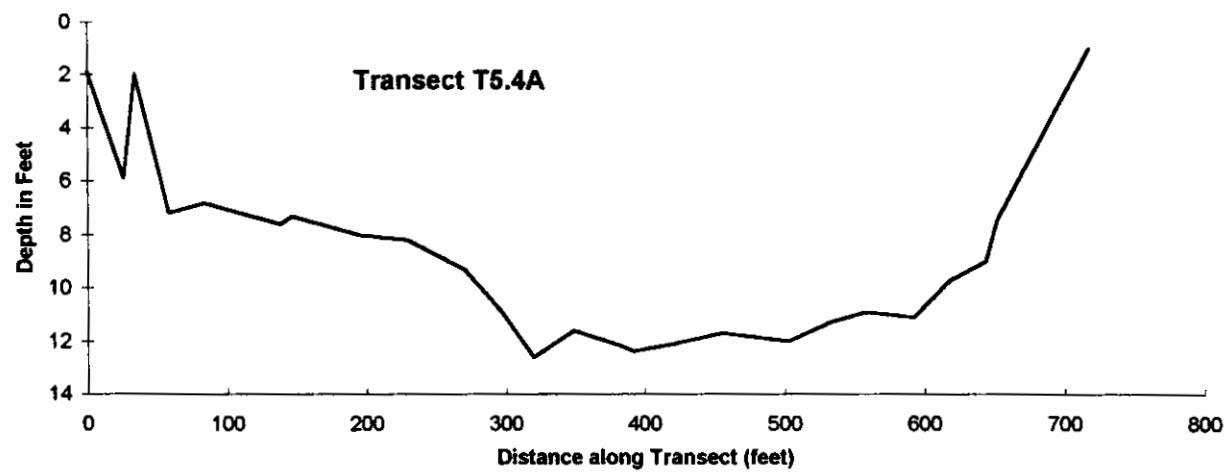
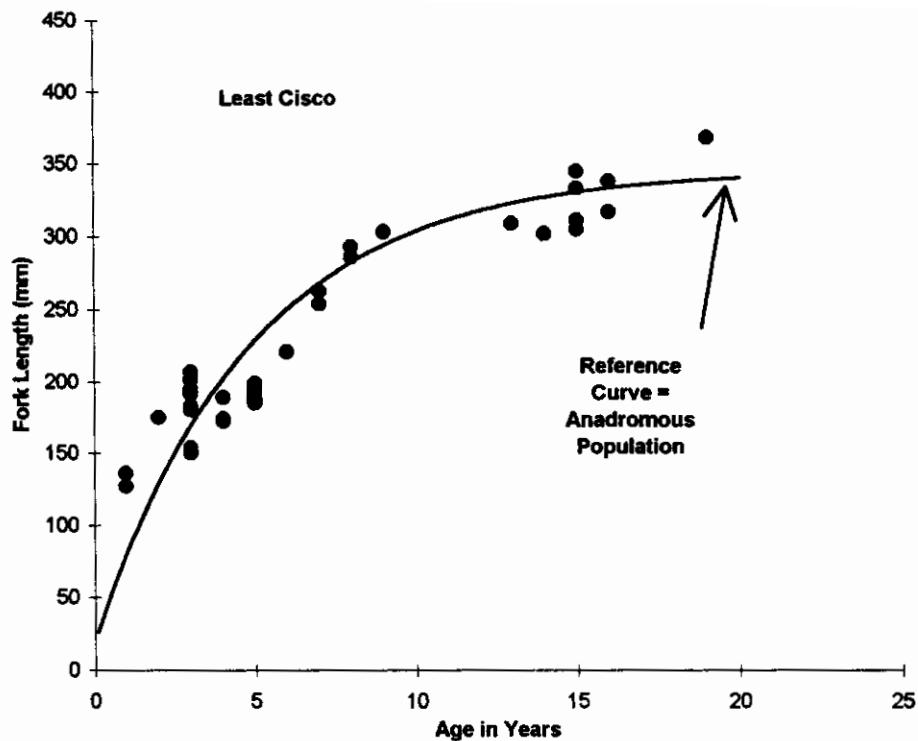
Water Quality:

| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------------|-------------------|------------------|---------------------|-------------------|---|--|------------|
| | | | | | 22 | 18 | |
| 1993 | 13 | 7.7 | 2.4 | 4.8 | | | J. Lobdell |

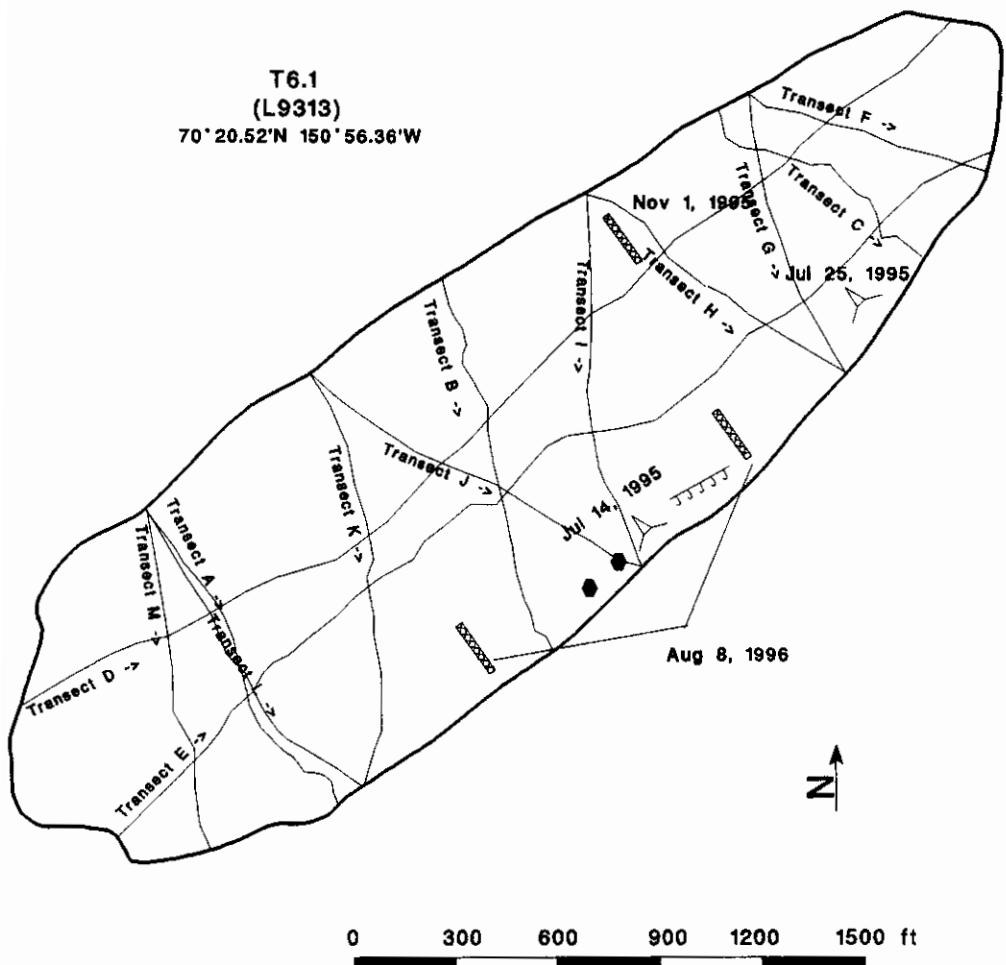
Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|-------------|-----------|-------------------|--------------------|---------------|---------------------|
| Fyke Net | Jul 15 95 | 16.7 | Least cisco | 20 | 150-254 |
| | | | Alaska blackfish | 2 | |
| | | | 9spine stickleback | 74 | |
| Minnow Trap | Jul 15 95 | 16.4 | None | 0 | |
| Seine | Jul 14 95 | | 9spine stickleback | 1 | |
| Set Line | Jul 14 95 | 16.7 | None | 0 | |
| Gill Net | Nov 6 95 | 22.3 | Broad whitefish | 1 | 196 |
| | | | Least cisco | 24 | 127-368 |





T6.1
(L9313)
70°20.52'N 150°56.36'W



Lake T6.1

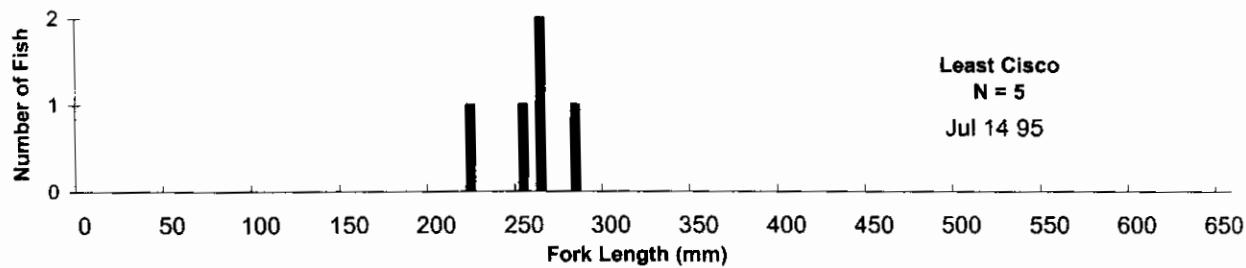
Other Names: L9313
Location: 70°20.52'N 150°56.36'W
USGS Quad Sheet: Harrison Bay B-2: T11N R5E, Sect 5
Habitat: Perched Lake (Infrequent Flooding)
Area: 69 acres
Maximum Depth: 12.3 feet
Active Outlet: No
Spec. Conductance: 107 $\mu\text{S}/\text{cm}$
pH: 7.7
Calculated Volume: 184.6 million gallons (based on depth contours)
Permittable Volume: 6.7 million gallons

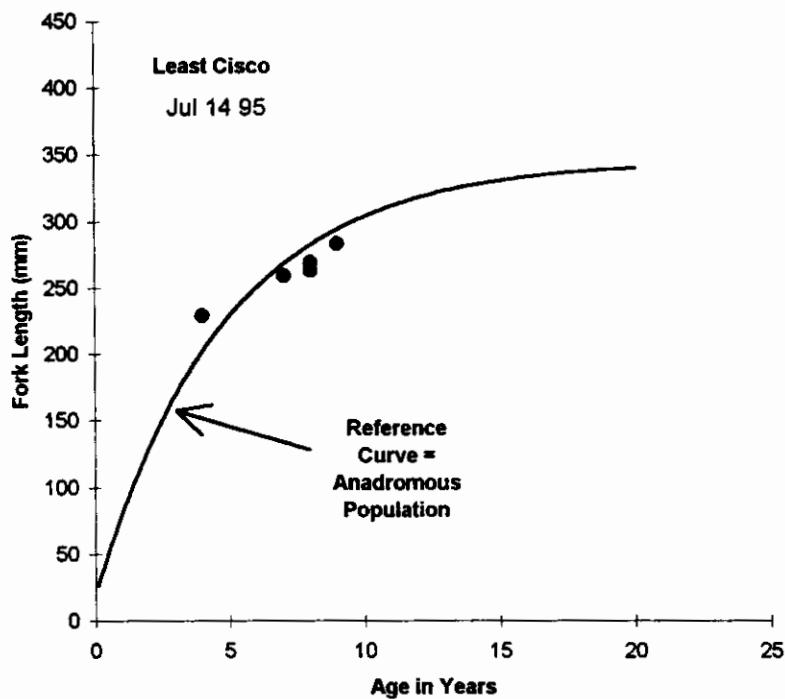
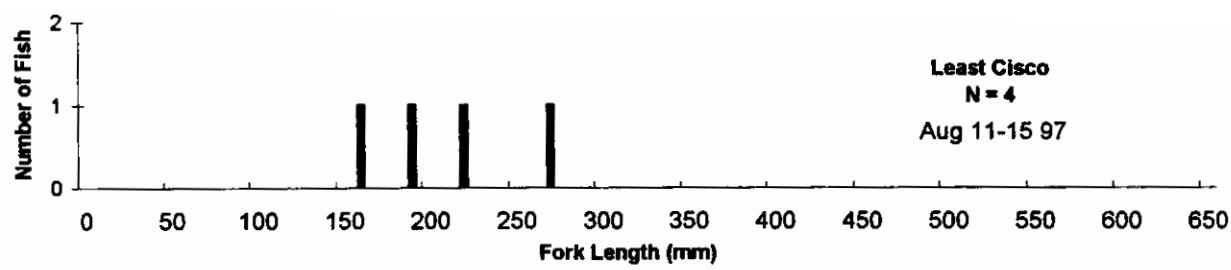
Water Quality:

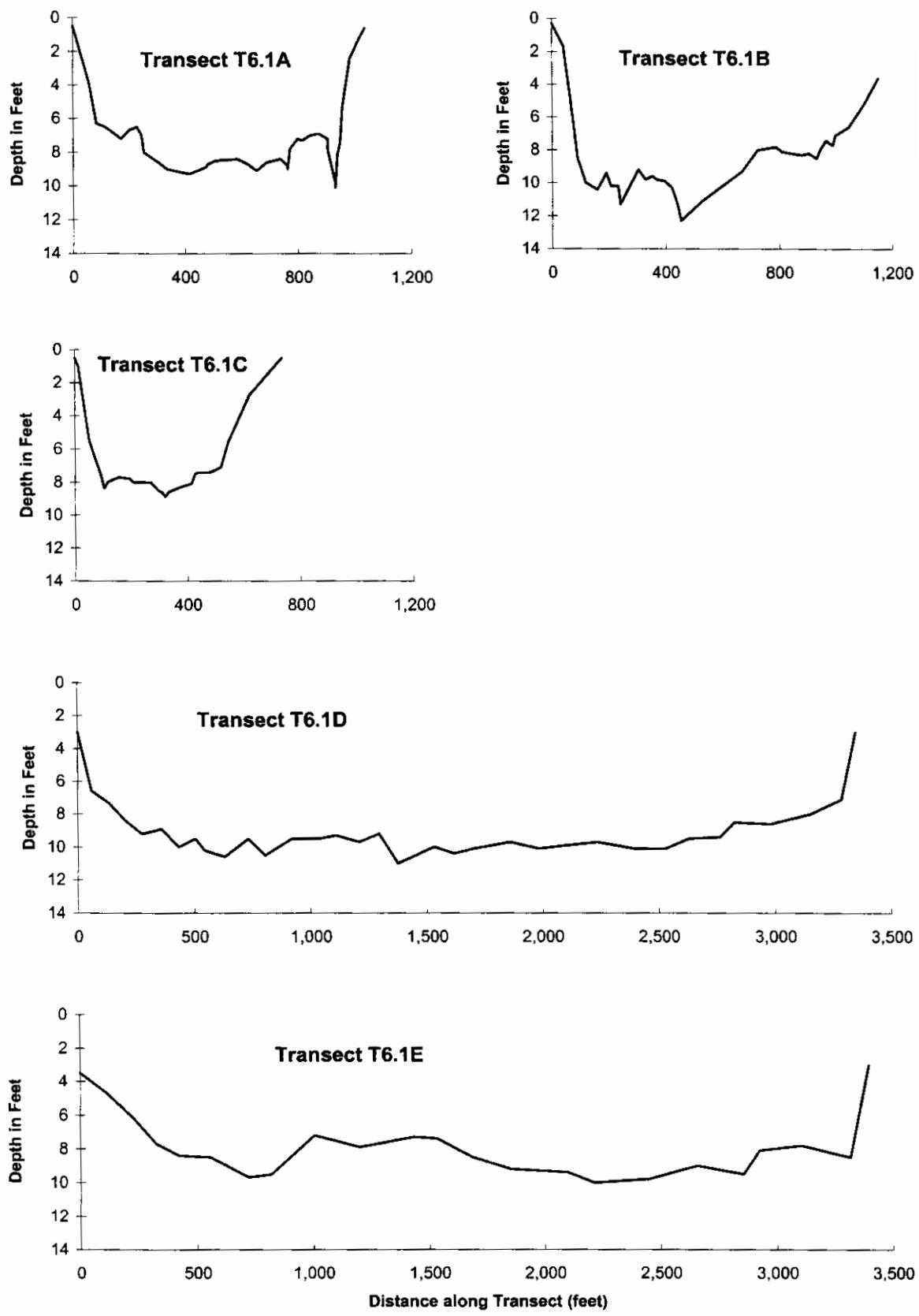
| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness | Total Dissolved Solids (mg/l) | Source |
|--------------------|-------------------|------------------|---------------------|-------------------|--------------------------------|--|------------|
| | | | | | [CaCO ₃] (mg/l) | | |
| 1993 | 19 | 9.3 | 3.1 | 8 | 33 | 54 | J. Lobdell |

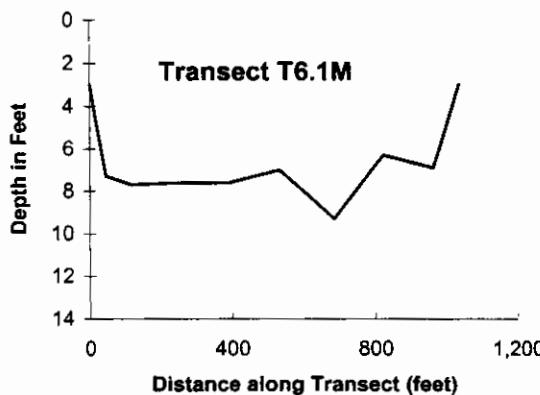
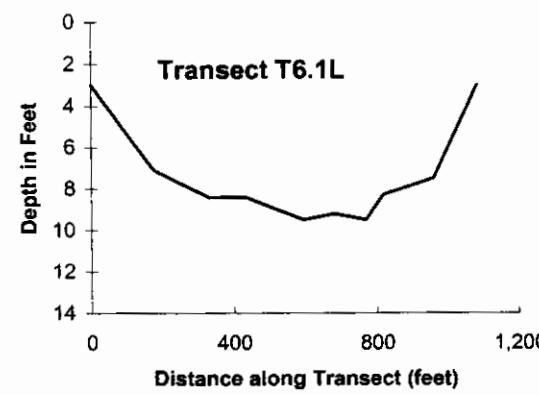
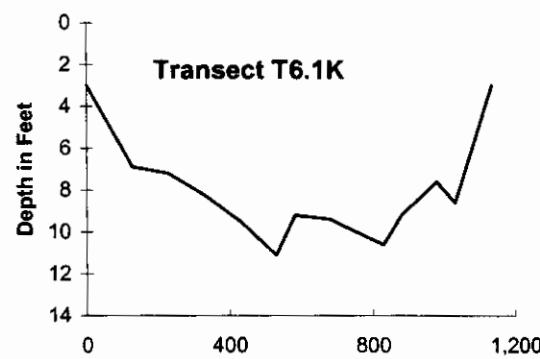
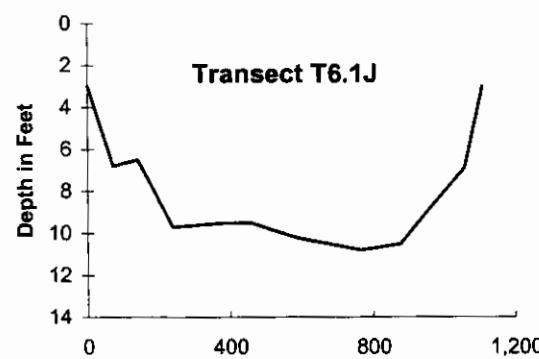
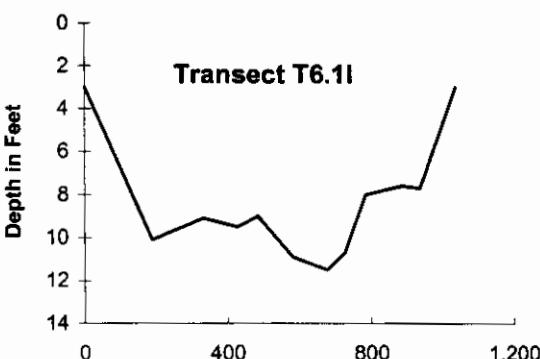
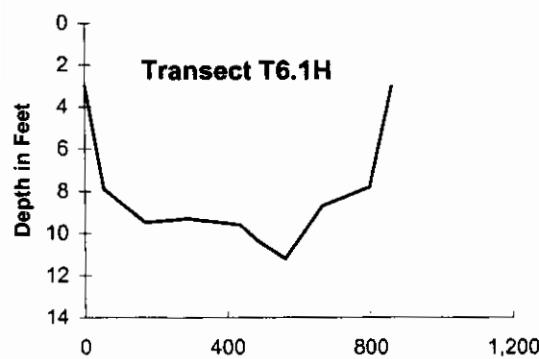
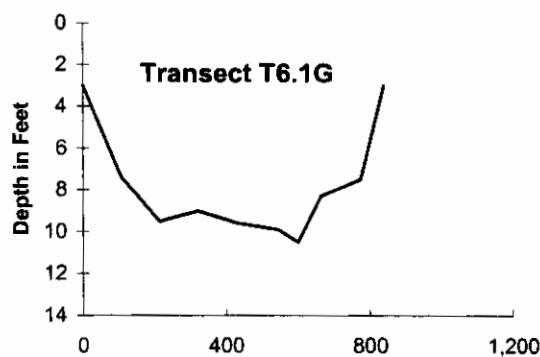
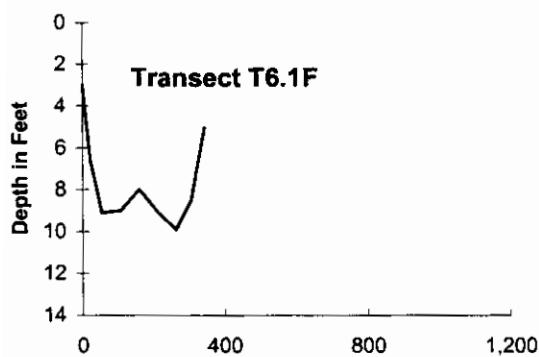
Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|-------------|--------------|-------------------|--------------------|------------------|---------------------|
| Fyke Net | Jul 14 95 | 23.3 | Least cisco | 5 | 229-283 |
| | | | Alaska blackfish | 6 | 42-90 |
| | | | 9spine stickleback | 63 | |
| Fyke Net | Jul 26 95 | 20.7 | 9spine stickleback | 9 | |
| Minnow Trap | Jul 15 95 | 43.2 | 9spine stickleback | 9 | |
| Set Line | Jul 15 95 | 21.6 | None | 0 | |
| Set Line | Jul 16 95 | 24.3 | None | 0 | |
| Gill Net | Nov 1 95 | 20.6 | None | 0 | |
| Gill Net | Aug 8 96 | 9.1 | None | 0 | |
| Fyke Net | Aug 11-15 97 | 91.2 | Least cisco | 4 | 167-276 |
| | | | Alaska blackfish | 12 | 79 |
| | | | Slimy sculpin | 1 | |









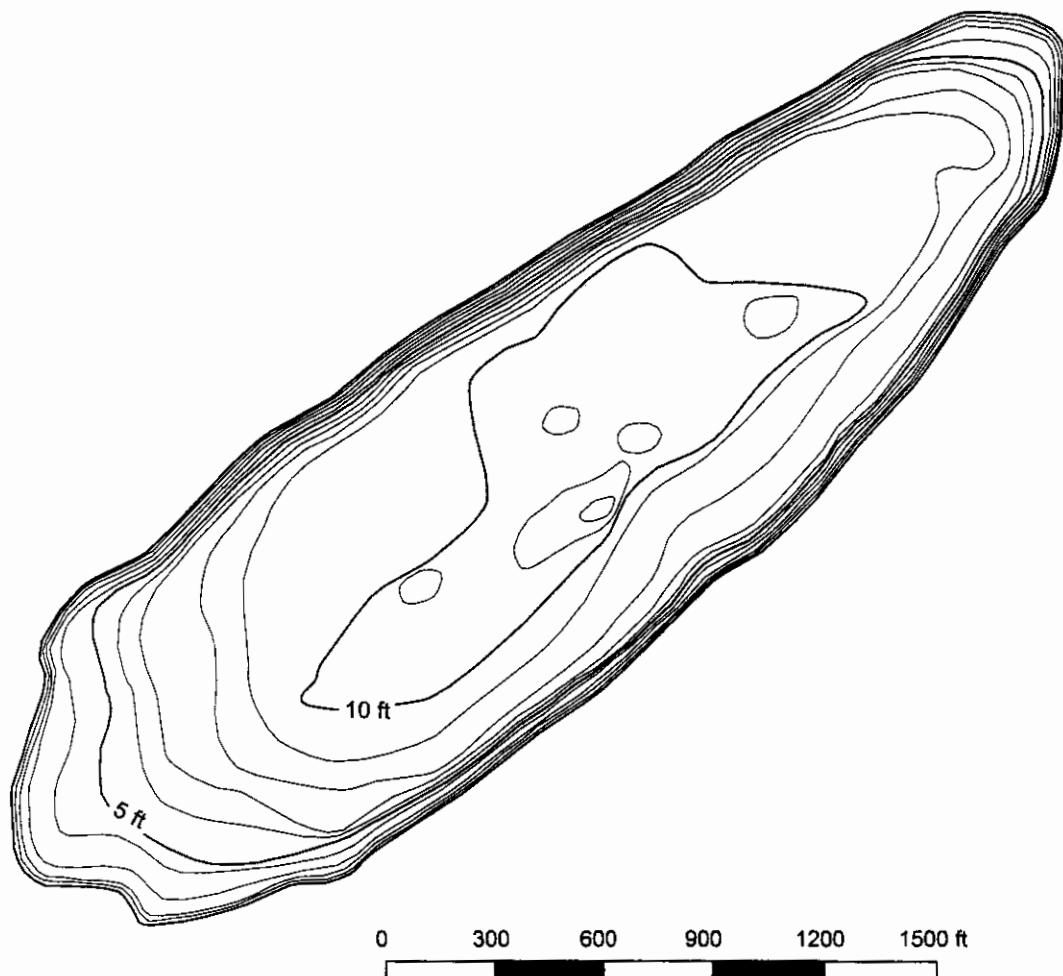
Contour Map of Lake T6.1 (L9313)

contour data from 1995, 1996 and 1998

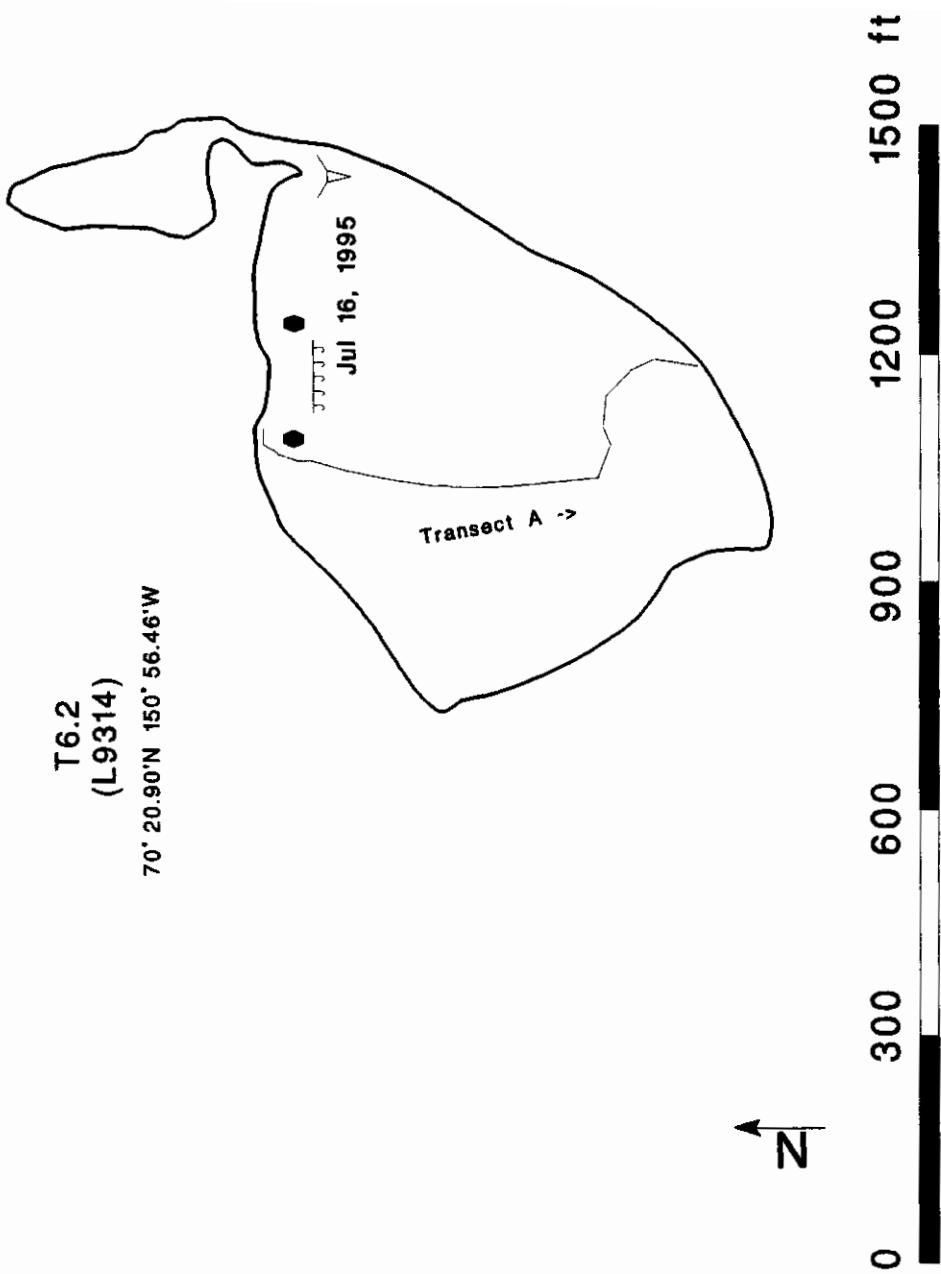
MJM Research

December 1998

Disclaimer: Contours are approximate interpretations
of available depth information to estimate lake volume,
they should not be used for navigation or design.



T6.2
(L9314)
70° 20.90'N 150° 56.46'W



Lake T6.2

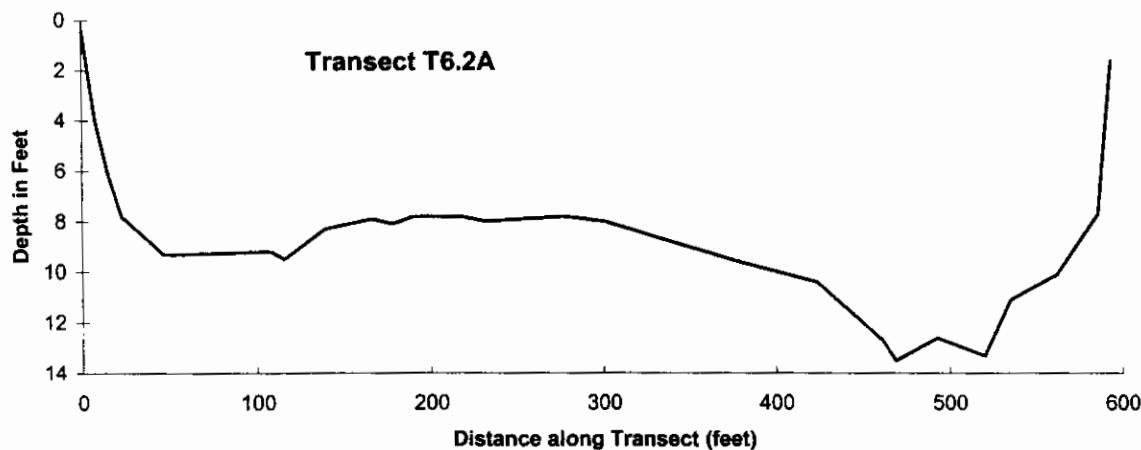
Other Names: L9314
Location: 70°20.90'N 150°56.46'W
USGS Quad Sheet: Harrison Bay B-2: T12N R5E, Sect 32
Habitat: Perched Lake (Frequent Flooding)
Area: 6 acres
Maximum Depth: 14 feet
Active Outlet: No
Spec. Conductance: 631 $\mu\text{S}/\text{cm}$
Calculated Volume: 8.6 million gallons
Permittable Volume: 0.6 million gallons

Water Quality:

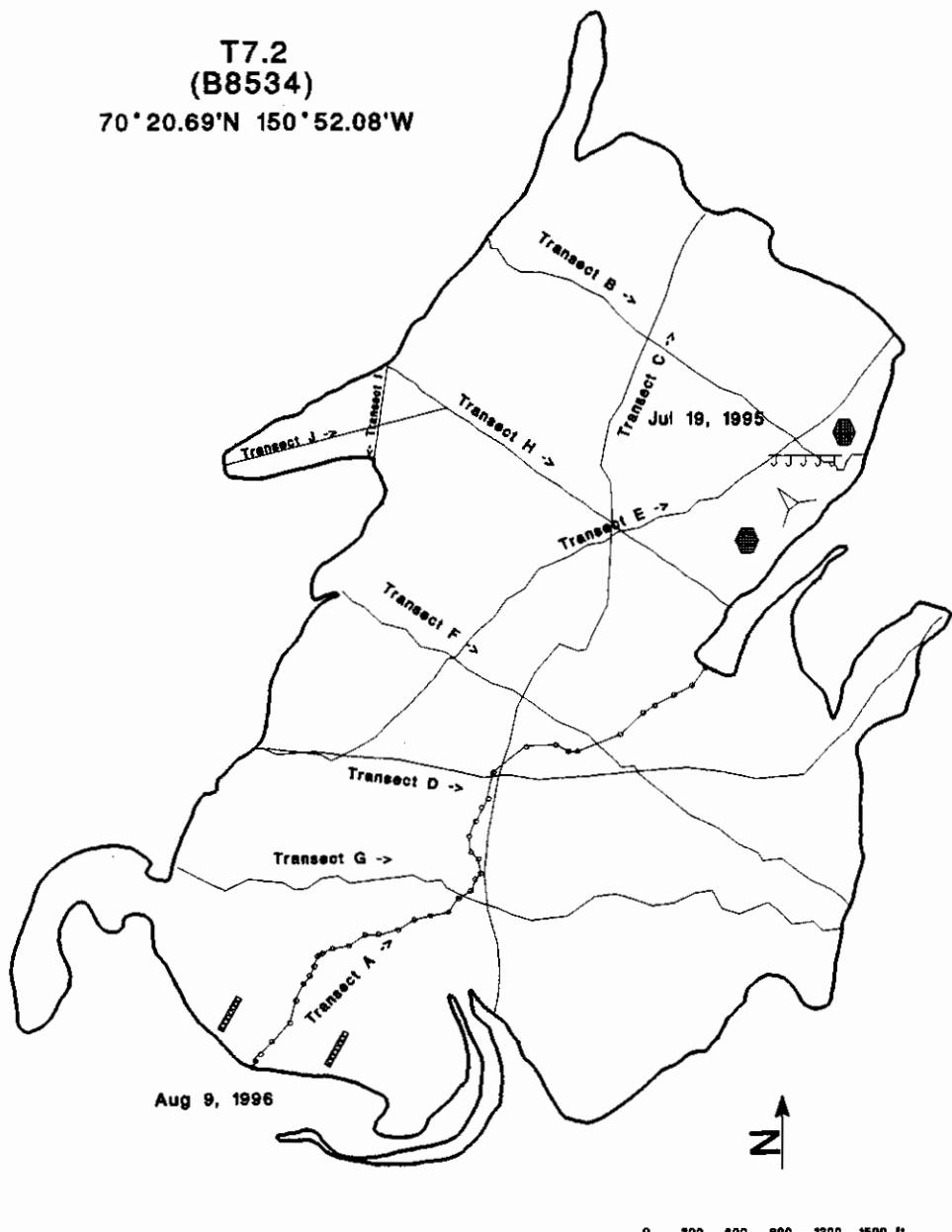
| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------|----------------|---------------|------------------|----------------|--|-------------------------------|------------|
| 1993 | 300 | 15.0 | 19 | 14 | 113 | 610 | J. Lobdell |

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|-------------|-----------|----------------|--------------------|---------------|
| Fyke Net | Jul 16 95 | 21.7 | 9spine stickleback | 40 |
| Minnow Trap | Jul 16 95 | 43.2 | 9spine stickleback | 2 |
| Set Line | Jul 16 95 | 21.3 | None | 0 |



T7.2
(B8534)
70° 20.69'N 150° 52.08'W



Lake T7.2

Other Names: B8534; L9282
Location: 70°20.69'N 150°52.08'W
USGS Quad Sheet: Harrison Bay B-2: T12N R5E, Sect 33
Habitat: Perched Lake (Frequent Flooding)
Area: 480 acres
Maximum Depth: 18.0 feet
Active Outlet: No
Spec. Conductance: 204 $\mu\text{S}/\text{cm}$ (1985)
 276 $\mu\text{S}/\text{cm}$ (1995)
pH: 8.5 (1985)
Calculated Volume: 1,673.4 million gallons (based on depth contours)
Permittable Volume: 90.0 million gallons

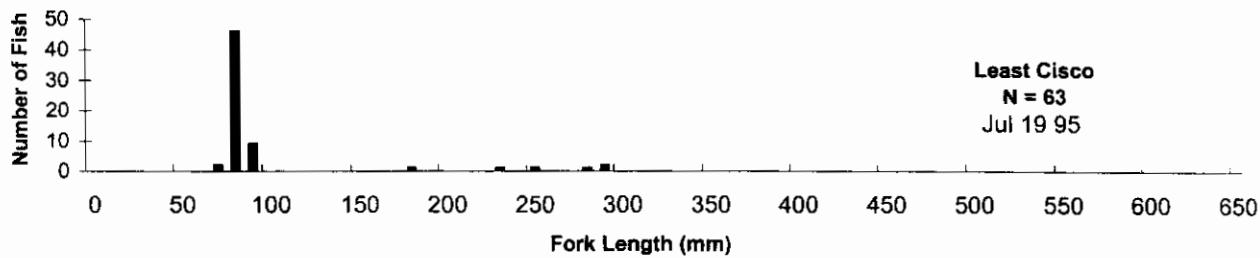
Water Quality:

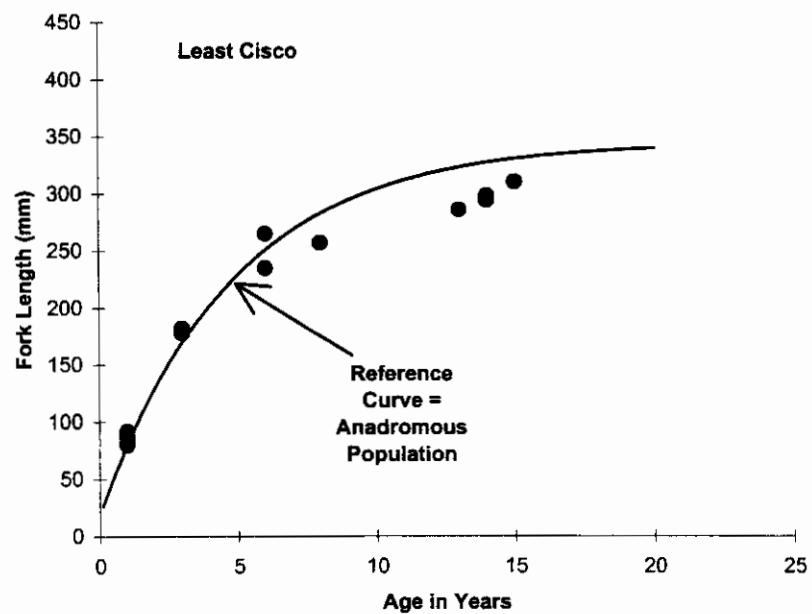
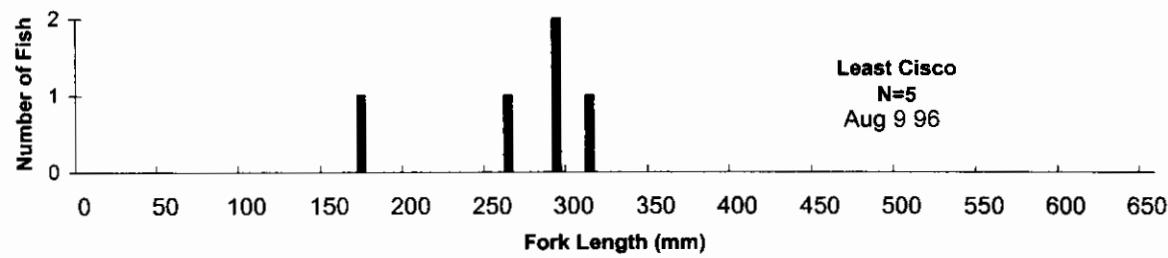
| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------|----------------|---------------|------------------|----------------|--|-------------------------------|---------------------|
| 1985 | | | | | 103 | | Bendock & Burr 1986 |
| 1992 | 43 | 1.5 | 10.6 | 19 | 91 | 240 | J. Lobdell |

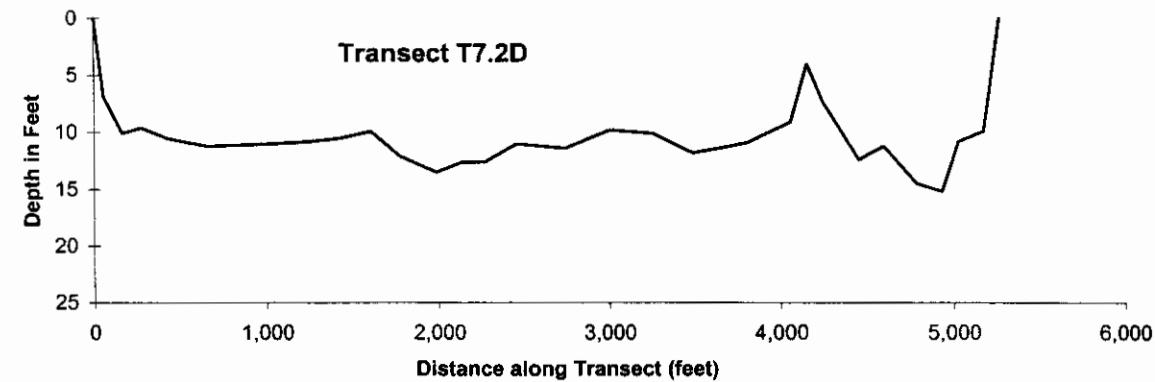
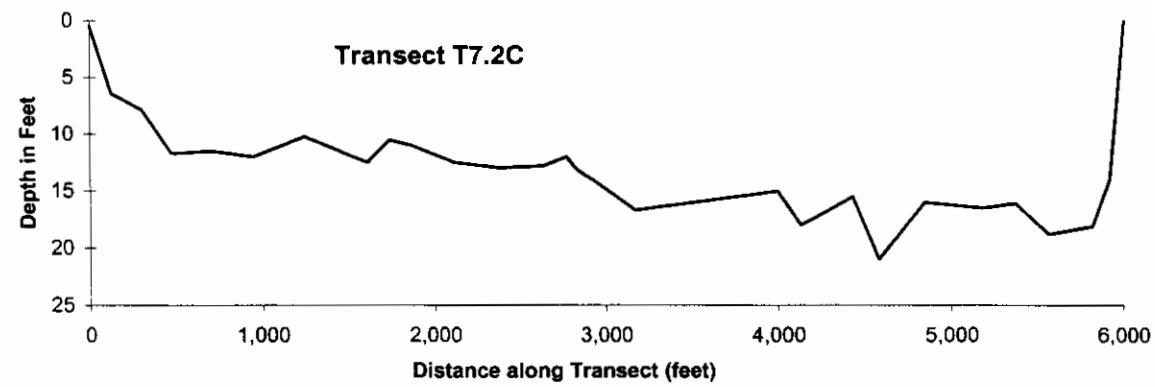
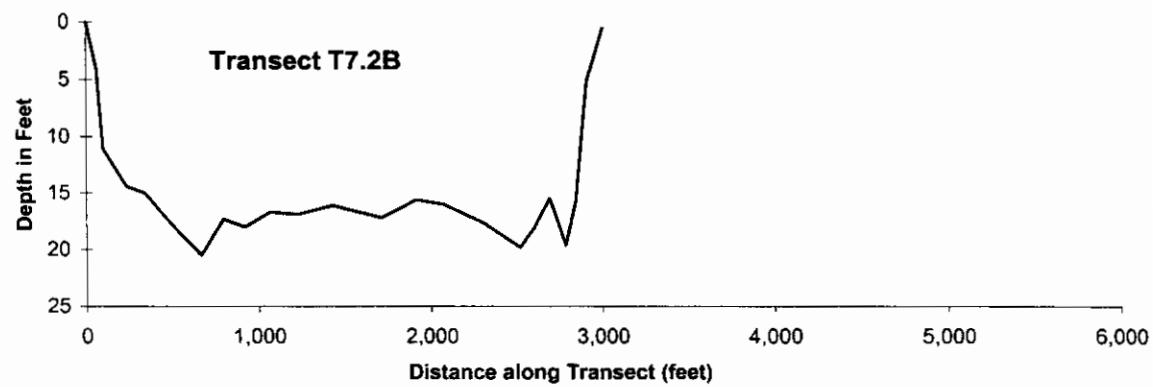
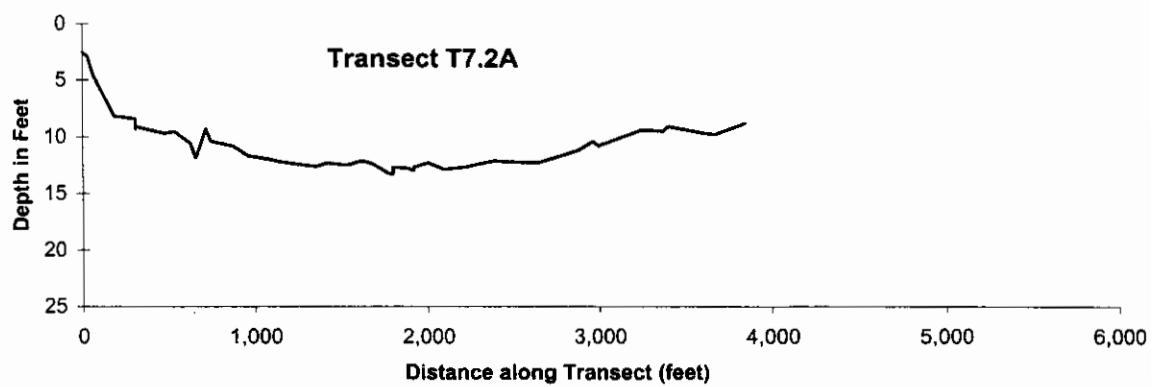
Catch Record:

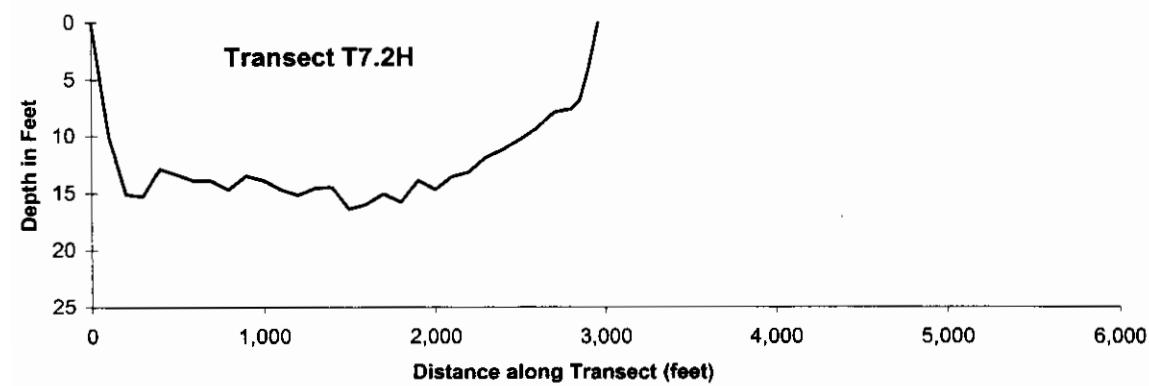
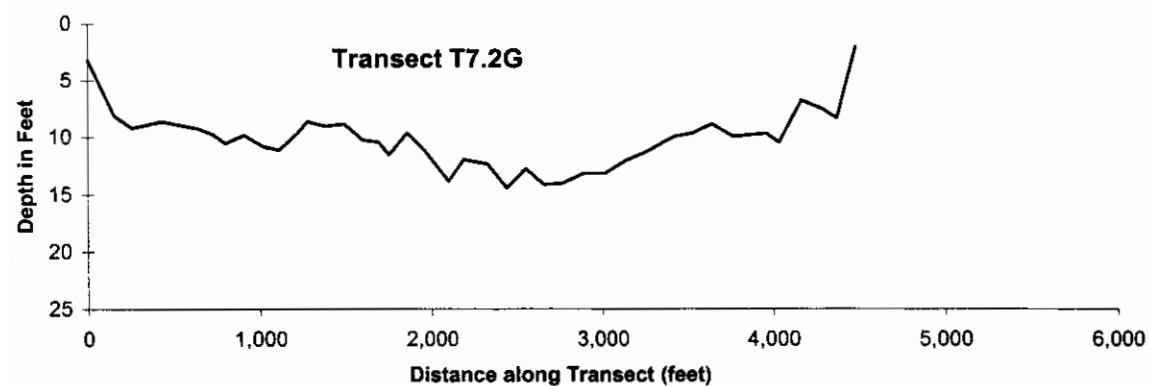
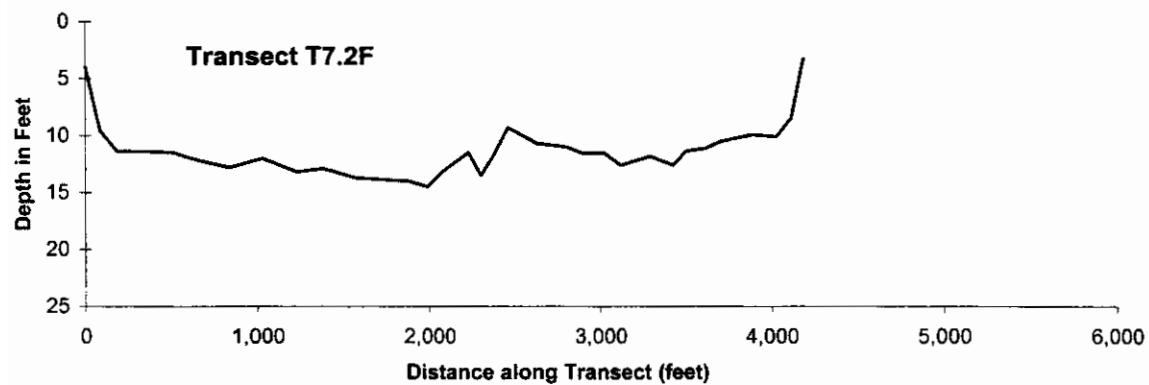
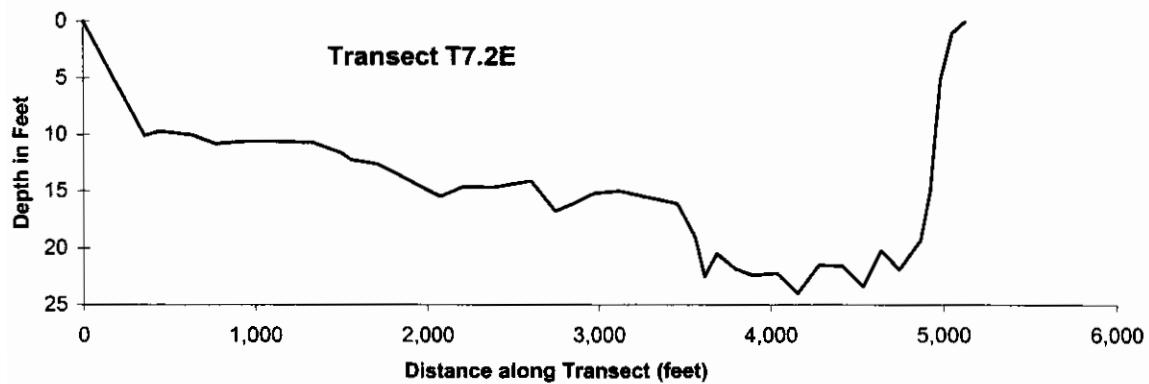
| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|-------------|-----------------|----------------|--------------------|---------------|------------------|
| Gill Net | Jul 16-19, 1985 | ~24 | Least cisco | 0.28/hr | |
| Fyke Net | Jul 19 95 | 20.5 | Least cisco | 63 | 78-298 |
| | | | Alaska blackfish | 1 | |
| | | | 9spine stickleback | 840 | |
| Minnow Trap | Jul 19 95 | 40.5 | Alaska blackfish | 1 | |
| Set Line | Jul 19 95 | 20.1 | None | 0 | |
| Gill Net | Aug 9 96 | 10.1 | Least cisco | 6 | 178-310 |

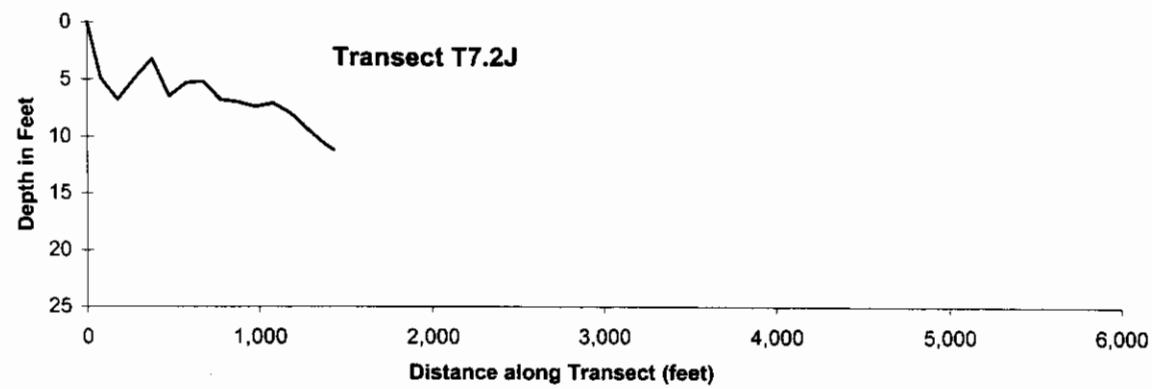
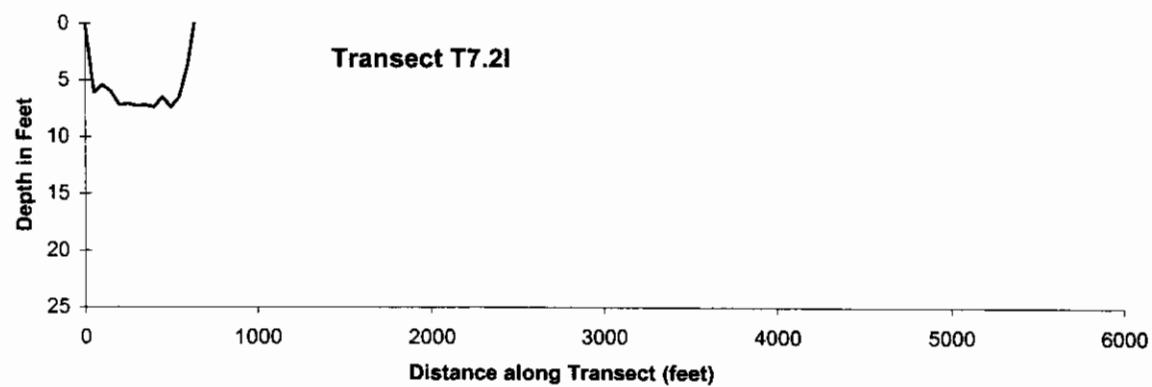
Source of 1985 data: Bendock and Burr 1986









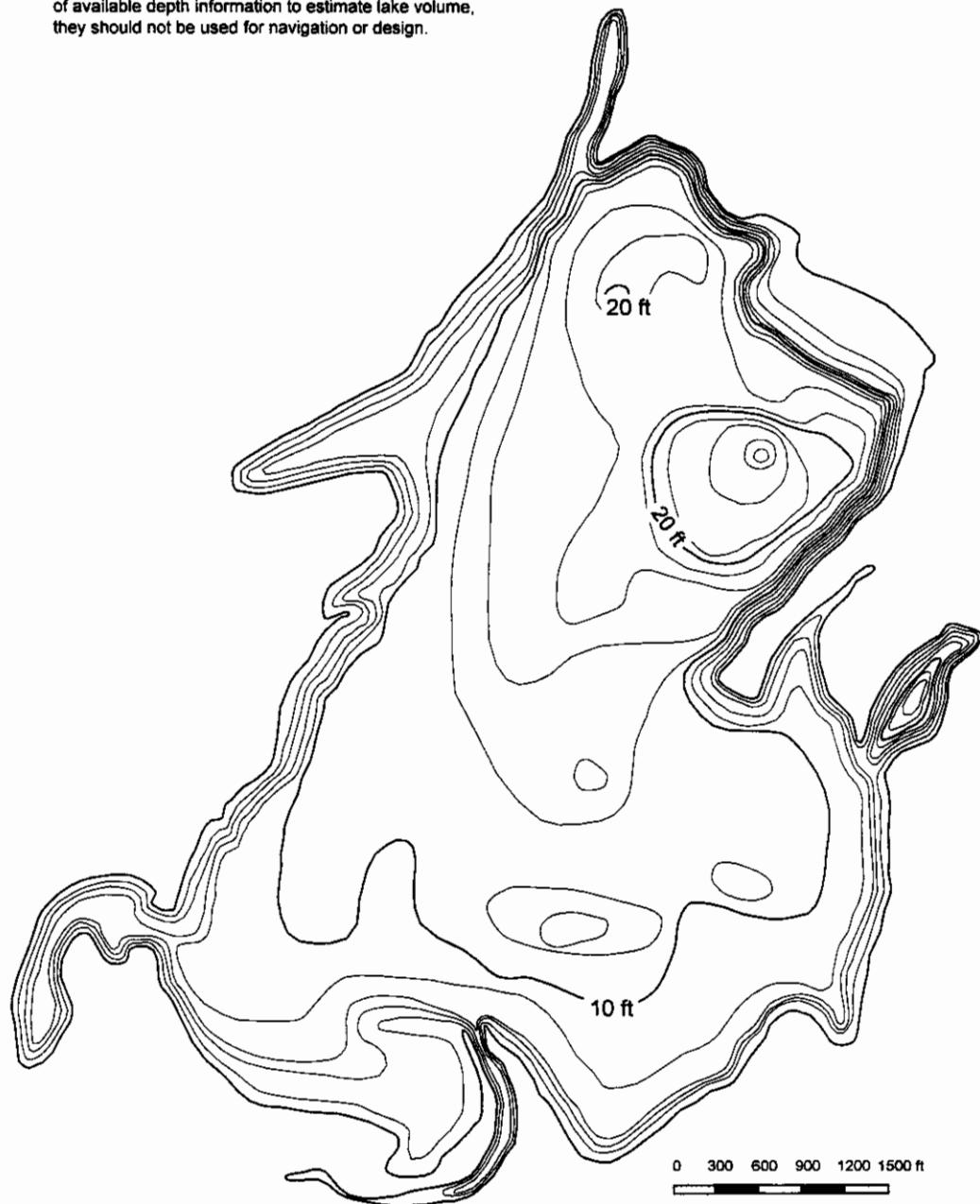


Contour Map of Lake T7.2 (B8534)
contour data from 1995 and 1998

MJM Research

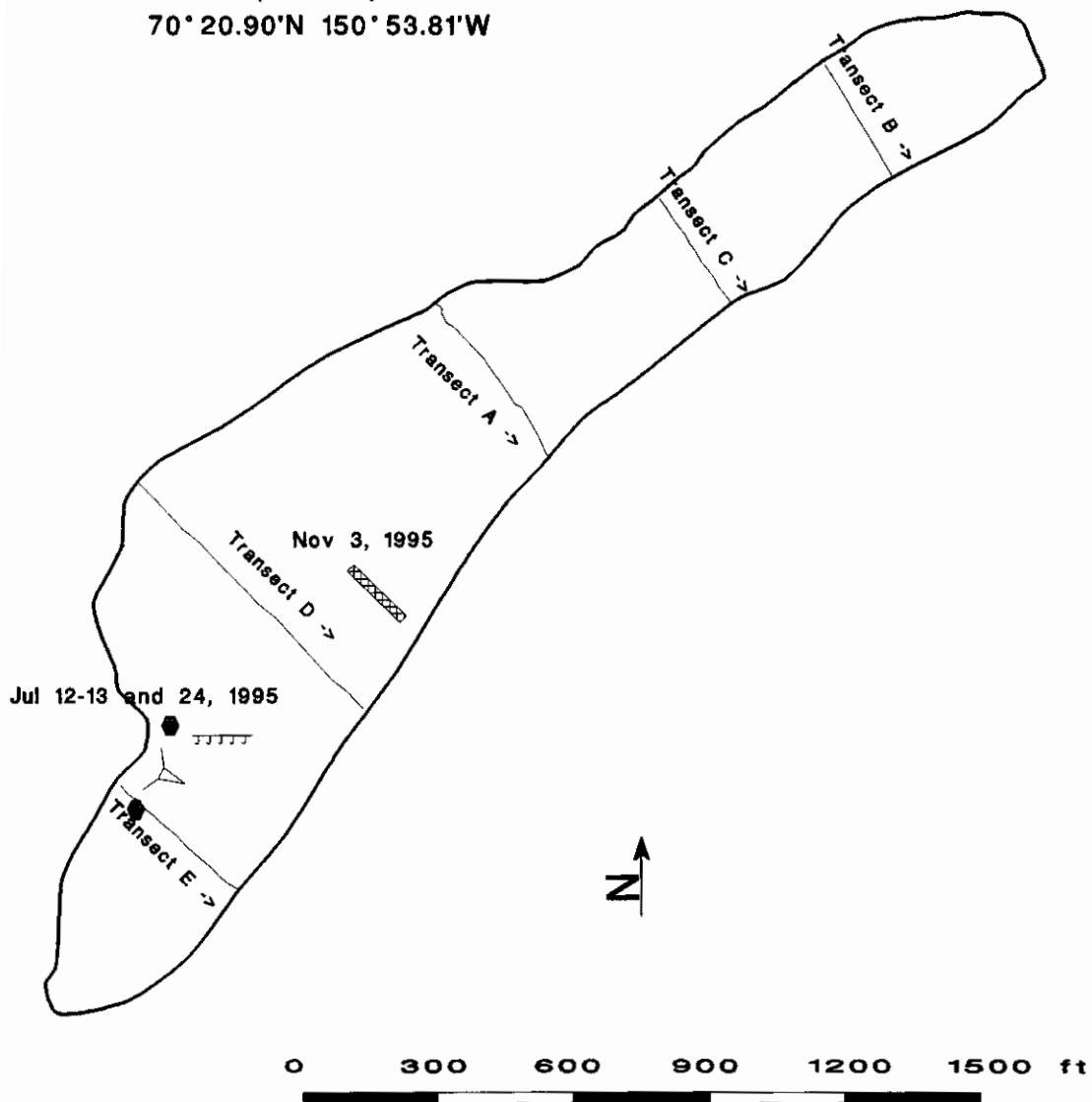
December 1998

Disclaimer: Contours are approximate interpretations
of available depth information to estimate lake volume,
they should not be used for navigation or design.



T7.3
(L9342)

70° 20.90'N 150° 53.81'W



Lake T7.3

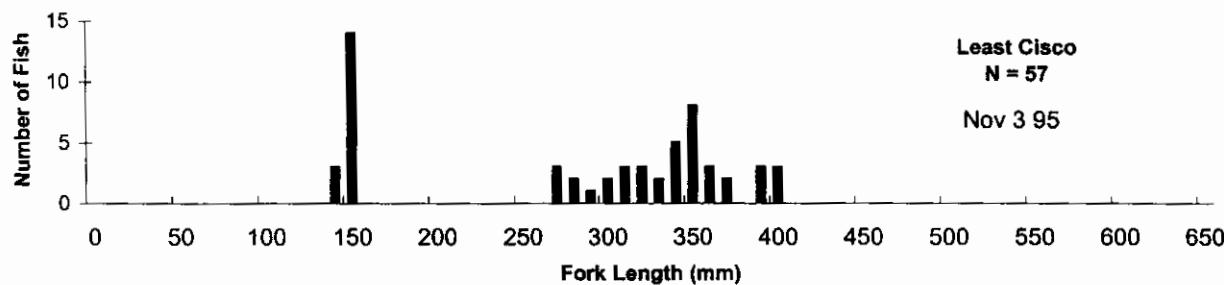
Other Names: L9342
Location: 70°20.90'N 150°53.81'W
USGS Quad Sheet: Harrison Bay B-2: T12N R5E, Sect 33
Habitat: Perched Lake (Infrequent Flooding)
Area: 25 acres
Maximum Depth: 11.8 feet
Active Outlet: No
Spec. Conductance: 84 $\mu\text{S}/\text{cm}$
Calculated Volume: 32.0 million gallons
Permittable Volume: 2.0 million gallons

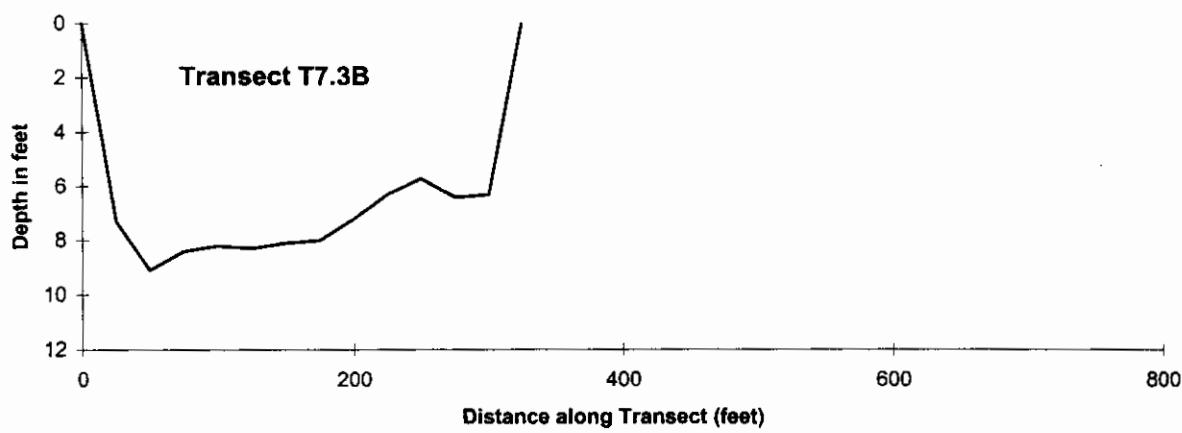
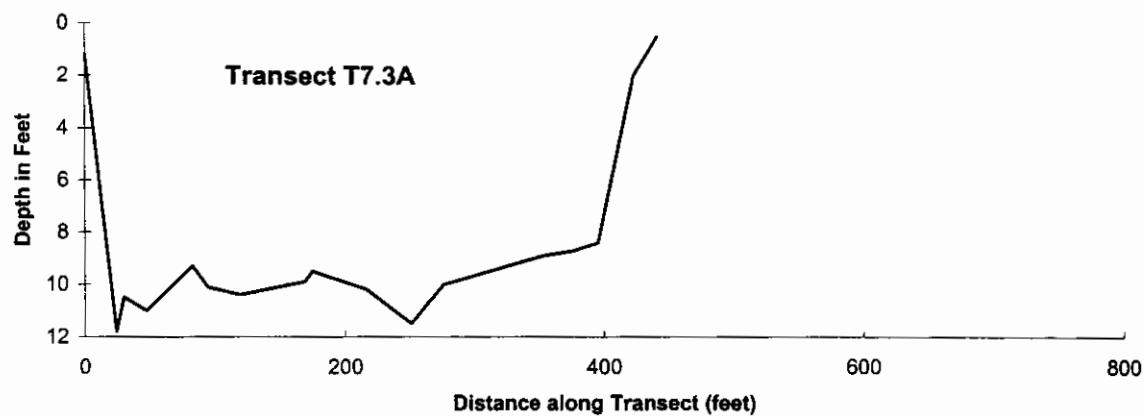
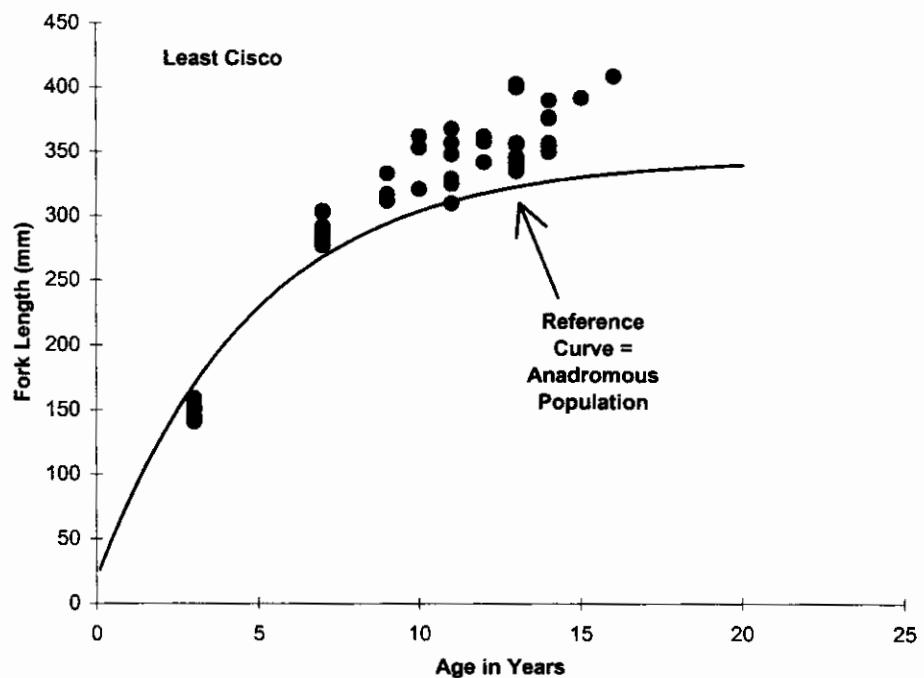
Water Quality:

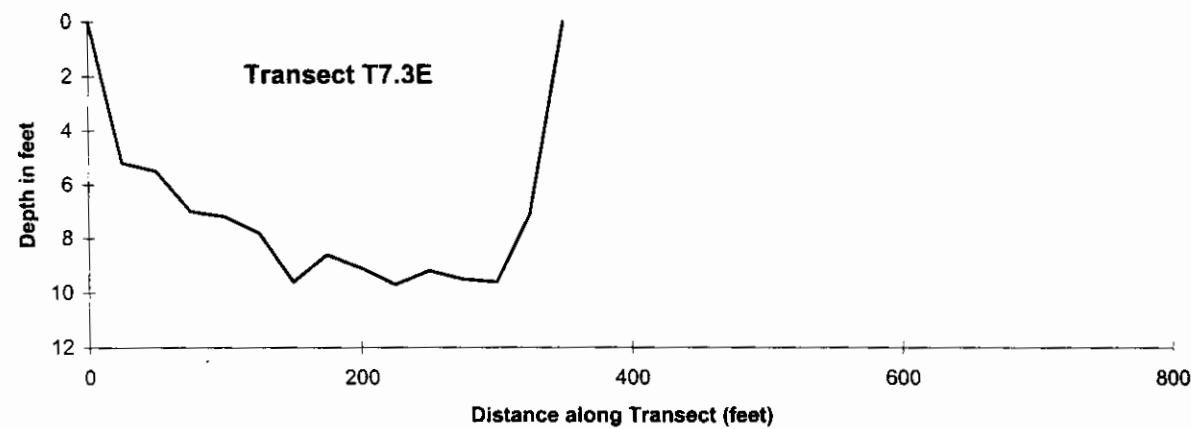
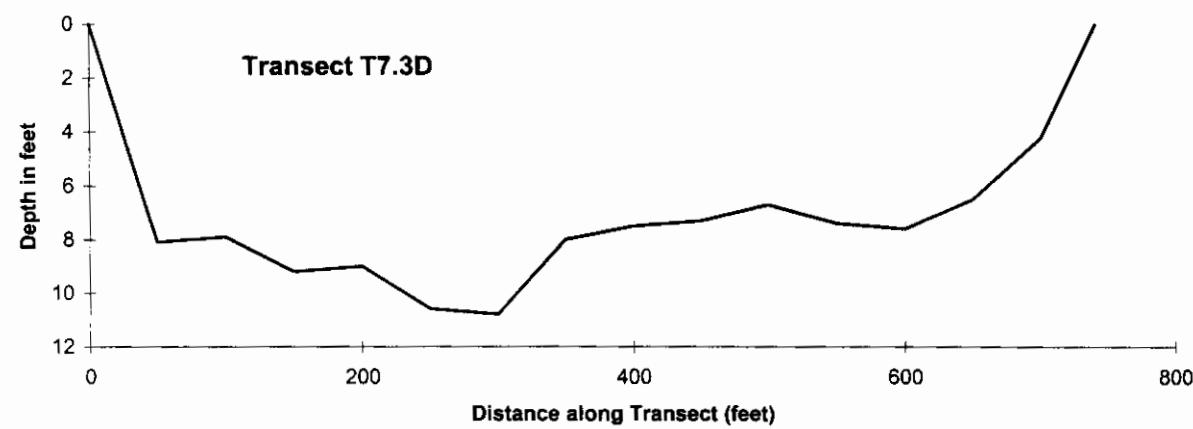
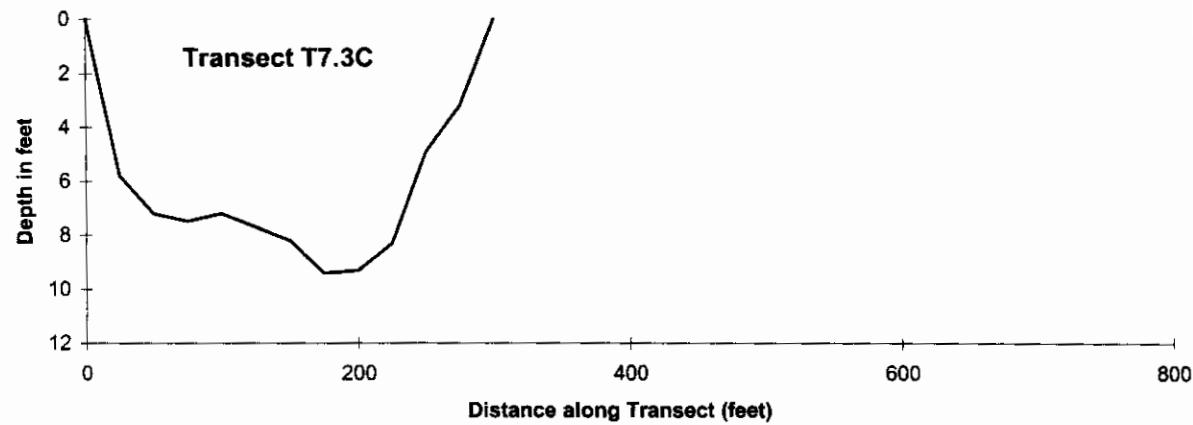
| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------|----------------|---------------|------------------|----------------|--|-------------------------------|------------|
| 1993 | 14 | 5.3 | 3.2 | 7.4 | 32 | 87 | J. Lobdell |

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|-------------|-----------|----------------|-----------------------------------|---------------|------------------|
| Fyke Net | Jul 12 95 | 19.9 | None | 0 | |
| Fyke Net | Jul 13 95 | 23.2 | 9spine stickleback | 860 | |
| Fyke Net | Jul 24 95 | 18.5 | Least cisco 9spine stickleback | 1 68 | 141 |
| Minnow Trap | Jul 18 95 | 41.2 | 9spine stickleback | 6 | |
| Set Line | Jul 18 95 | 19.9 | None | 0 | |
| Gill Net | Nov 3 95 | 23.7 | Least cisco Alaska blackfish | 57 1 | 277-409 |





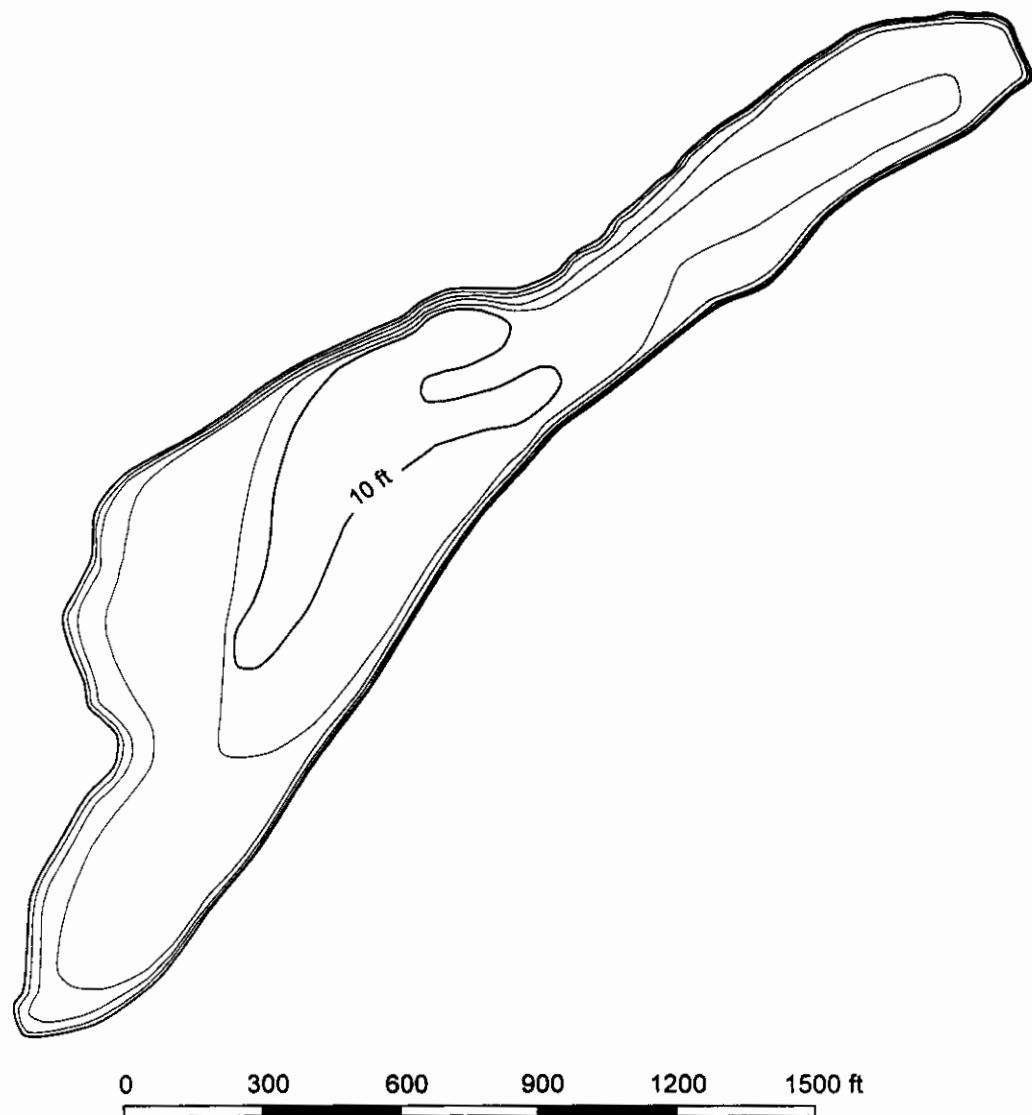


Contour Map of Lake T7.3 (L9342)
contour data from 1995 and 1998

MJM Research

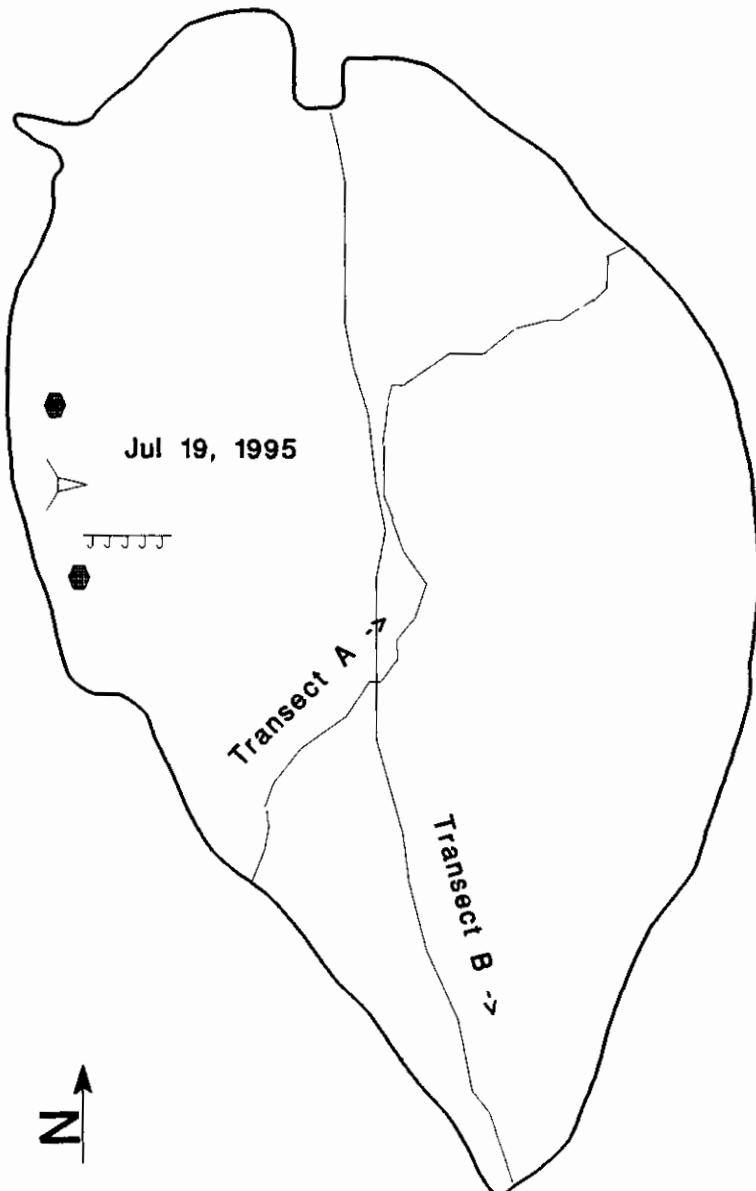
December 1998

Disclaimer: Contours are approximate interpretations
of available depth information to estimate lake volume,
they should not be used for navigation or design.



T8.1
(L9283)

70°20.42'N 150°50.45'W



0 300 600 900 1200 1500 ft

Lake T8.1

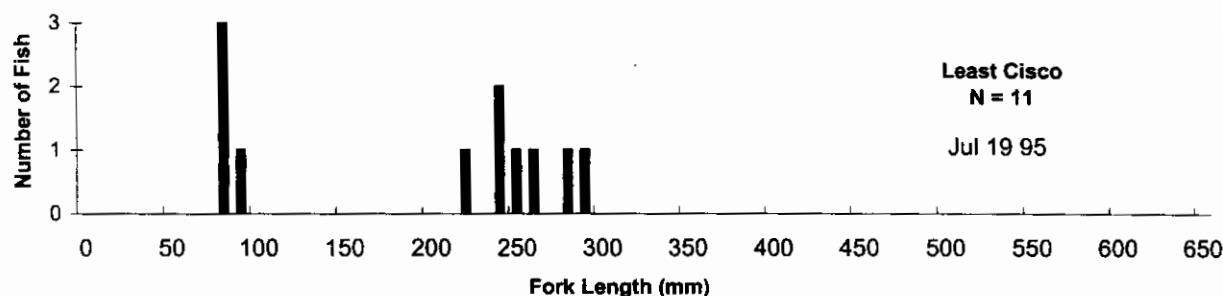
Other Names: L9283
Location: 70°20.42'N 150°50.45'W
USGS Quad Sheet: Harrison Bay B-2: T11N R5E, Sect 3
Habitat: Perched Lake (Frequent Flooding)
Area: 74 acres
Maximum Depth: 9.5 feet
Active Outlet: No
Spec. Conductance: 234 $\mu\text{S}/\text{cm}$
Calculated Volume: 75.9 million gallons
Permittable Volume: 3.0 million gallons

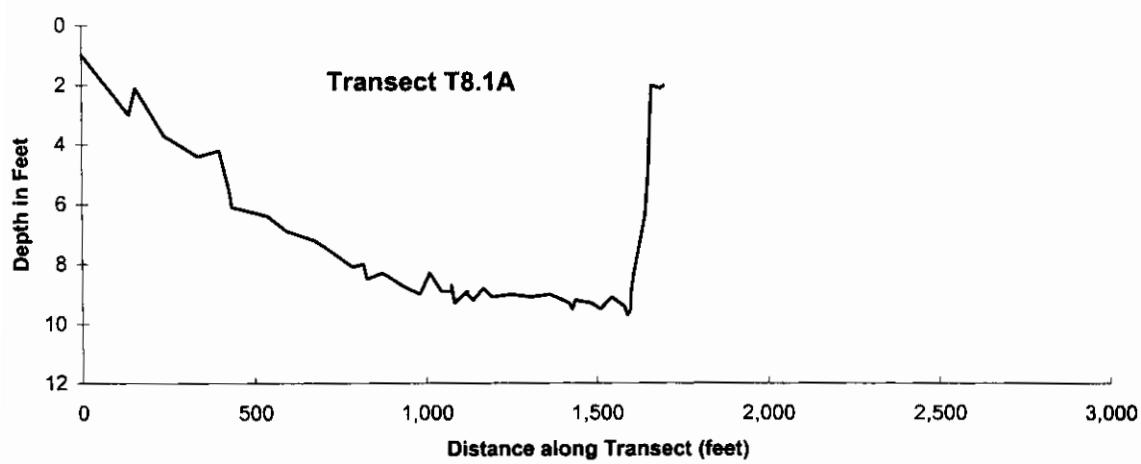
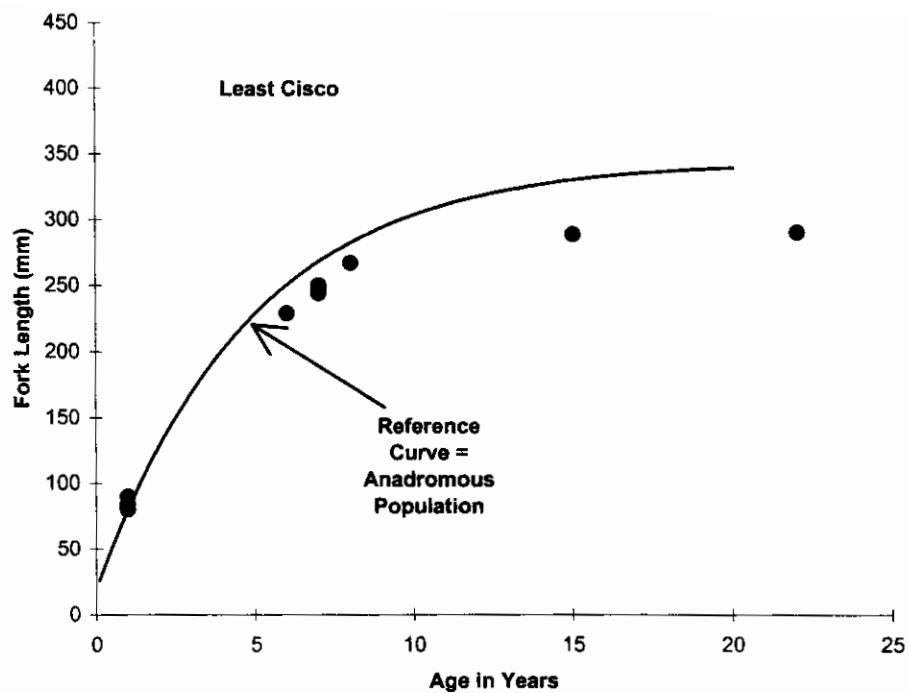
Water Quality:

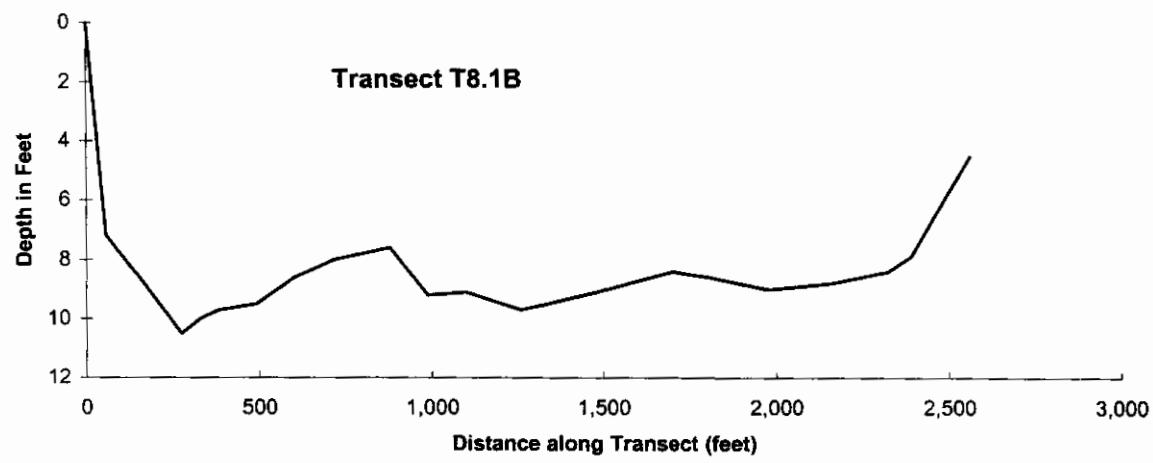
| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------|----------------|---------------|------------------|----------------|--|-------------------------------|------------|
| 1992 | 2.8 | 1.8 | 3.2 | 29 | 86 | 110 | J. Lobdell |

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|-------------|-----------|----------------|--------------------|---------------|------------------|
| Fyke Net | Jul 19 95 | 20.9 | Least cisco | 11 | 80-291 |
| | | | Alaska blackfish | 2 | |
| Minnow Trap | Jul 19 95 | 41.6 | 9spine stickleback | 45 | |
| Set Line | Jul 19 95 | 20.8 | None | 0 | |





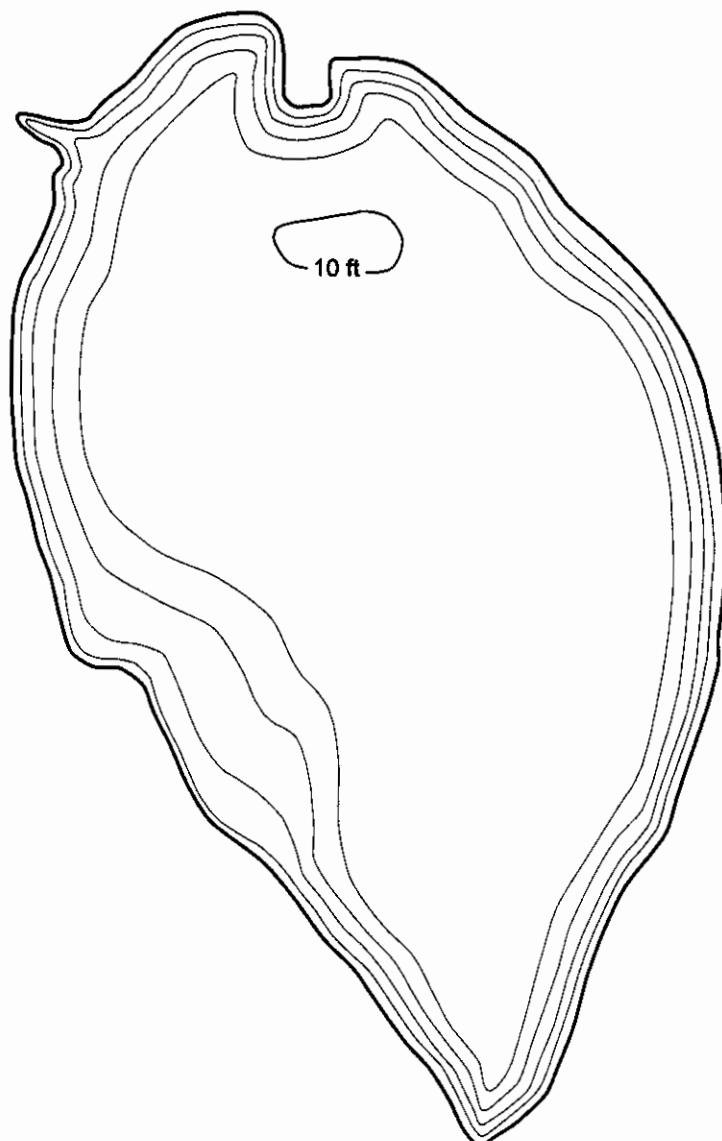


Contour Map of Lake T8.1 (L9283)
contour data from 1995 and 1998

MJM Research

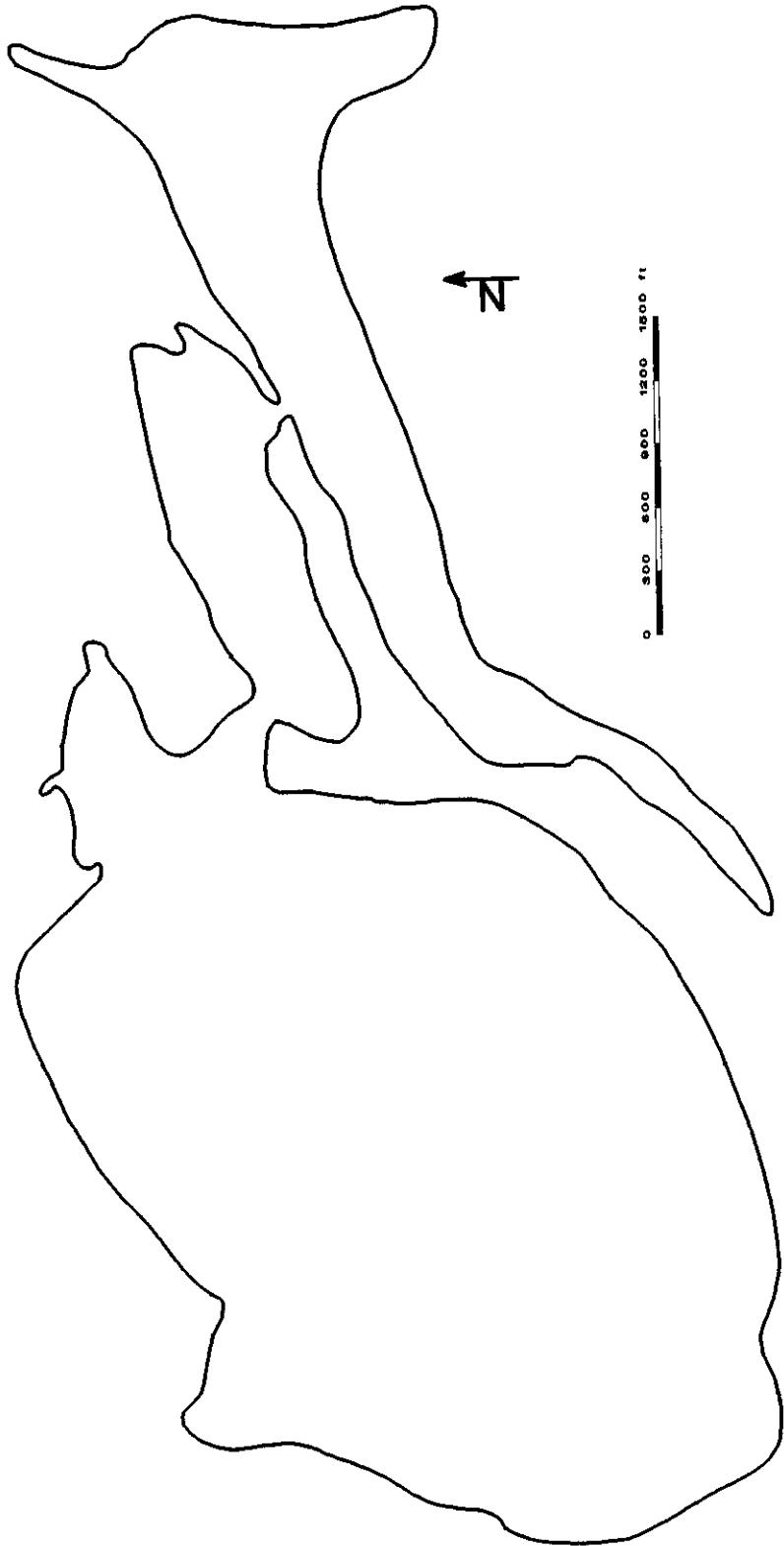
December 1998

Disclaimer: Contours are approximate interpretations
of available depth information to estimate lake volume,
they should not be used for navigation or design



0 300 600 900 1200 1500 ft

T8.2
(B8536)
70° 20.7'N 150° 48.0'W



Lake T8.2

Other Names: B8536; L9276
Location: 70°20.73'N 150°48.08'W
USGS Quad Sheet: Harrison Bay B-2: T12N R5E, Sect 35
Habitat: Perched Lake (Infrequent Flooding)
Area: 289 acres
Maximum Depth: 14 feet
Active Outlet: No
Spec. Conductance: 163 $\mu\text{S}/\text{cm}$ (1985)
pH: 8.5 (1985)
Calculated Volume: 435.2 million gallons
Permittable Volume: 32.6 million gallons

Water Quality:

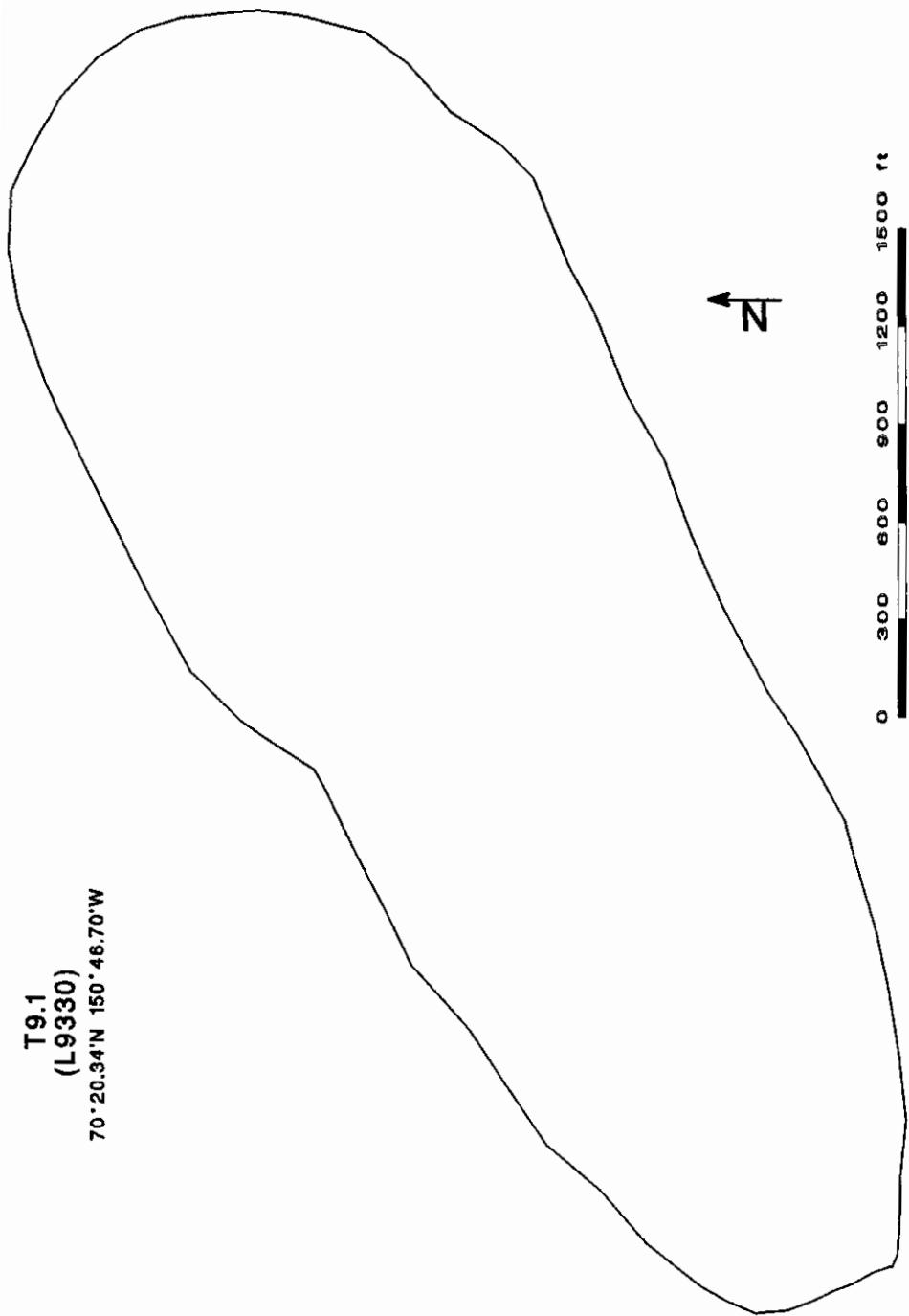
| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------------|-------------------|------------------|---------------------|-------------------|---|--|---------------------|
| 1985 | | | | | 86 | | Bendock & Burr 1986 |
| 1992 | 14 | 3.1 | 8.6 | 18 | 80 | 150 | J. Lobdell |

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|----------|-----------------|-------------------|--------------------------------|------------------|
| Gill Net | Jul 16-19, 1985 | ~24 | Broad whitefish Least cisco | ? ? |

Source of 1985 data: Bendock & Burr 1986

T9.1
(L9330)
70°20.34'N 150°46.70'W



Lake T9.1

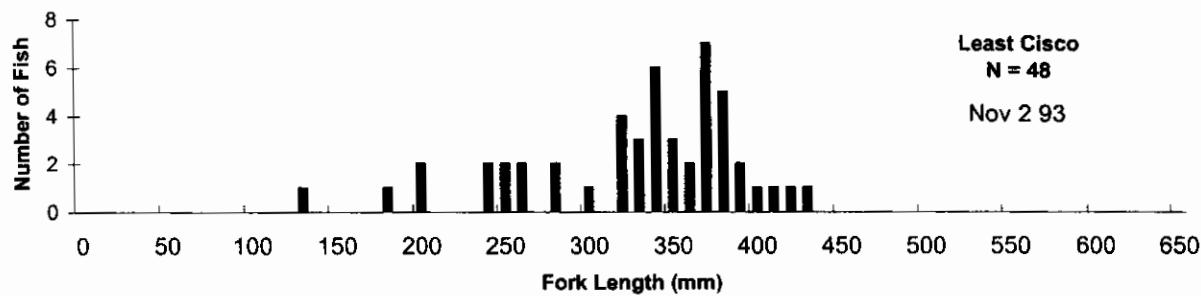
Other Names: L9330; M9307
Location: 70°20.34'N 150°46.70'W
USGS Quad Sheet: Harrison Bay B-2: T11N R5E, Sect 1, 2
Habitat: Perched Lake (Infrequent Flooding)
Area: 124 acres
Maximum Depth: 9.5 feet
Active Outlet: No
Spec. Conductance: 259 $\mu\text{S}/\text{cm}$
Calculated Volume: 127.1 million gallons
Permittable Volume: 5.0 million gallons

Water Quality:

| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------------|-------------------|------------------|---------------------|-------------------|---|--|------------|
| 1993 | 11 | 6.2 | 7.2 | 20 | 80 | 76 | J. Lobdell |

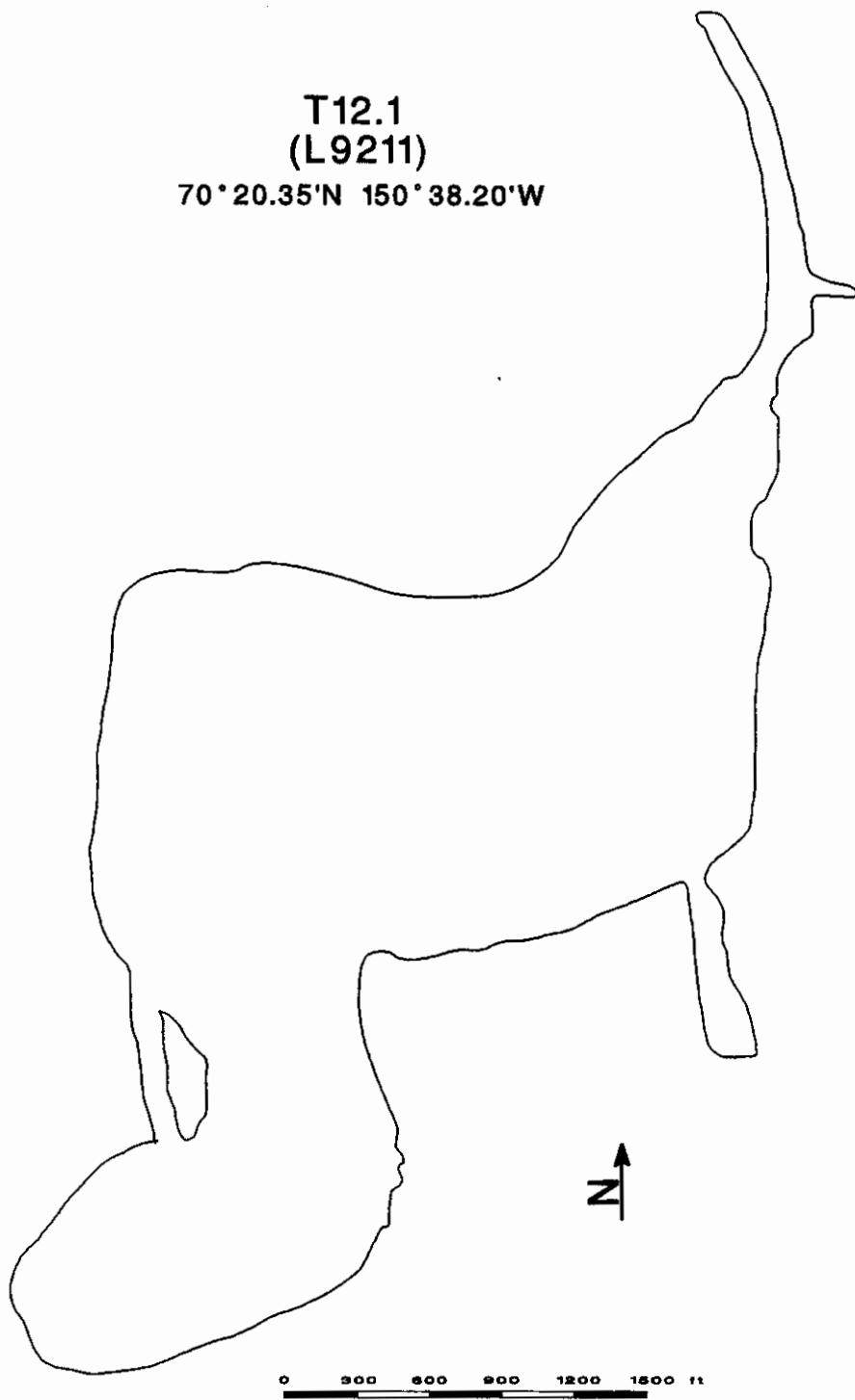
Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|-------------|----------|-------------------|------------------|------------------|---------------------|
| Gill Net | Nov 2 93 | 20.5 | Broad whitefish | 1 | 370 |
| | | | Least cisco | 48 | 132-430 |
| | | | Alaska blackfish | 1 | 99 |
| Minnow Trap | Nov 2 93 | 20.5 | Alaska blackfish | 5 | 67-100 |





T12.1
(L9211)
70°20.35'N 150°38.20'W



Lake T12.1

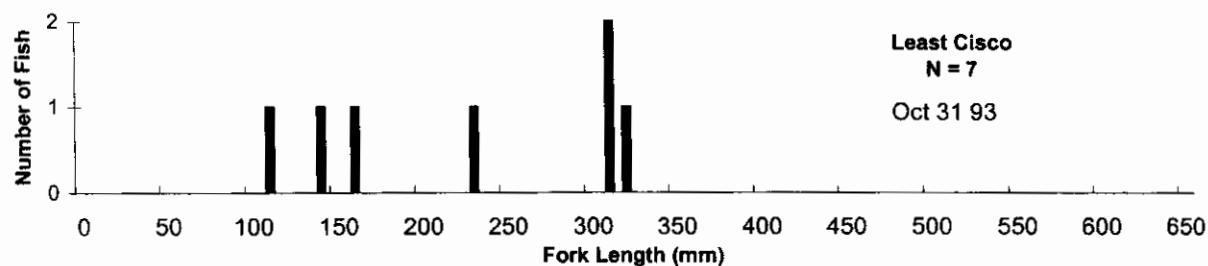
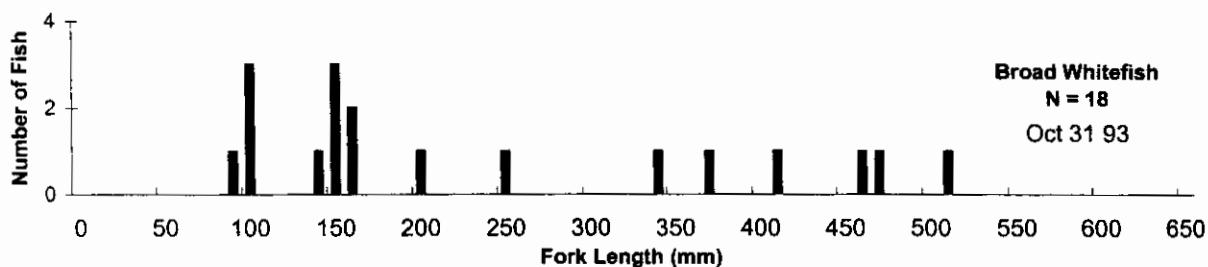
Other Names: L9211; M9305
Location: 70°20.35'N 150°38.20'W
USGS Quad Sheet: Harrison Bay B-2: T11N R6E, Sect 4
Habitat: Perched Lake (Infrequent Flooding)
Area: 139 acres
Maximum Depth: 16 feet
Active Outlet: No
Calculated Volume: 238.7 million gallons
Permittable Volume: 20.1 million gallons

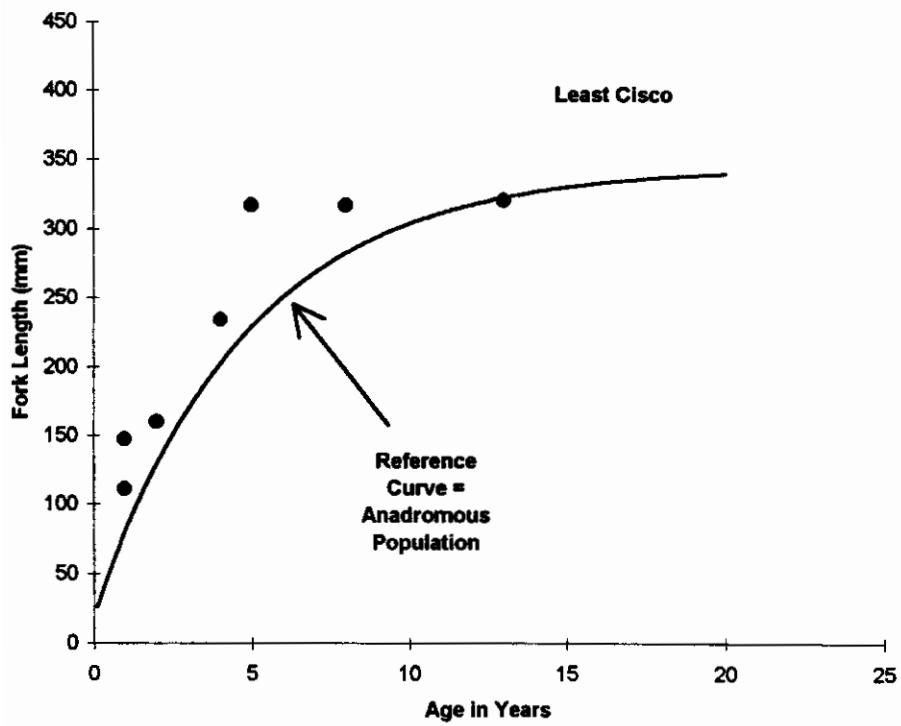
Water Quality:

| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------------|-------------------|------------------|---------------------|-------------------|---|--|------------|
| 1992 | 9.6 | 3.8 | 22 | 14 | 130 | 140 | J. Lobdell |

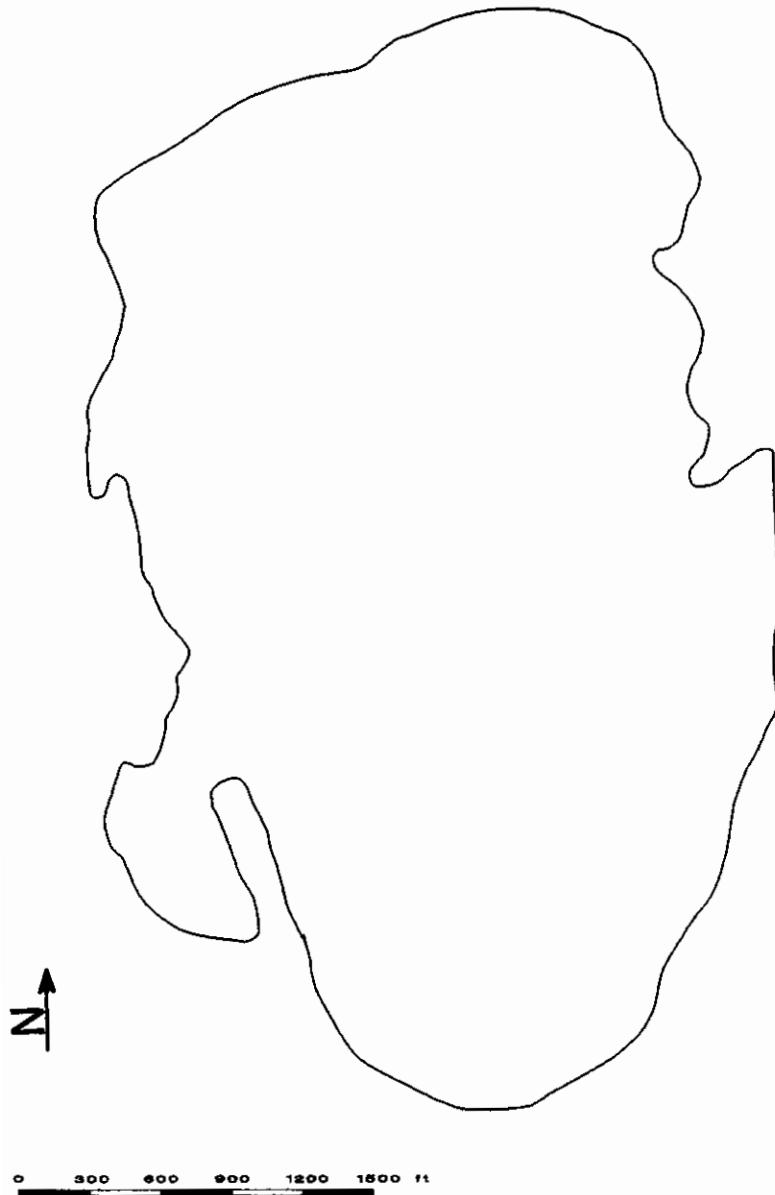
Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|-------------|-----------|-------------------|--------------------|------------------|---------------------|
| Gill Net | Oct 31 93 | 73.5 | Broad whitefish | 18 | 95-513 |
| | | | Humpback whitefish | 1 | 350 |
| | | | Least cisco | 7 | 111-321 |
| | | | Round whitefish | 2 | 121, 123 |
| | | | Burbot | 1 | 379 |
| | | | Alaska blackfish | 10 | 90-125 |
| Minnow Trap | Oct 31 93 | 73.5 | Burbot | 1 | 56 |





**T26.1
(M8101)**
70°20.89'N 149°56.38'W

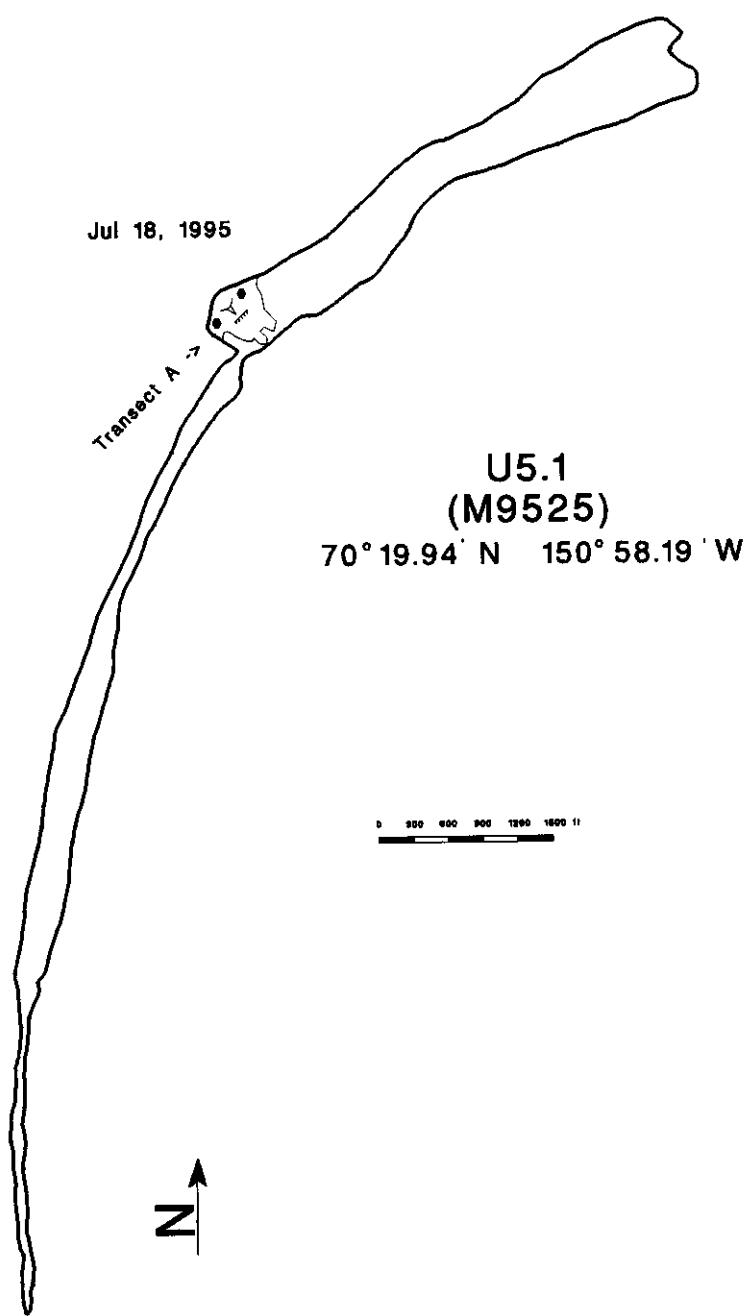


Lake T26.1

Other Names: M8101
Location: 70°20.89'N 149°56.38'W
USGS Quad Sheet: Beechey Point B-5: T12N R9E, Sect 31
Habitat: Drainage
Area: 226 acres
Maximum Depth: 7.5 feet
Active Outlet: Yes
Calculated Volume: 182.6 million gallons
Permittable Volume: No fish concern

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|----------|-----------|-------------------|---------|------------------|
| Gill Net | Aug 24 81 | ~24 | None | 0 |



2-266

U5.1
(M9525)
70°19'94" N 150°58'19" W

Jul 18, 1995

Transect A



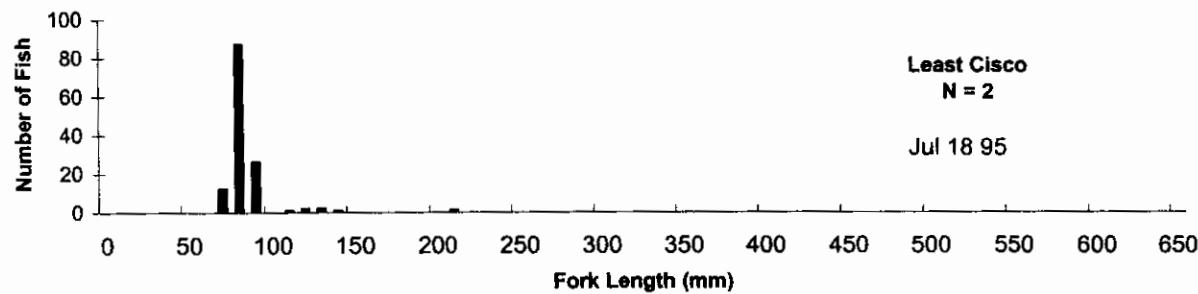
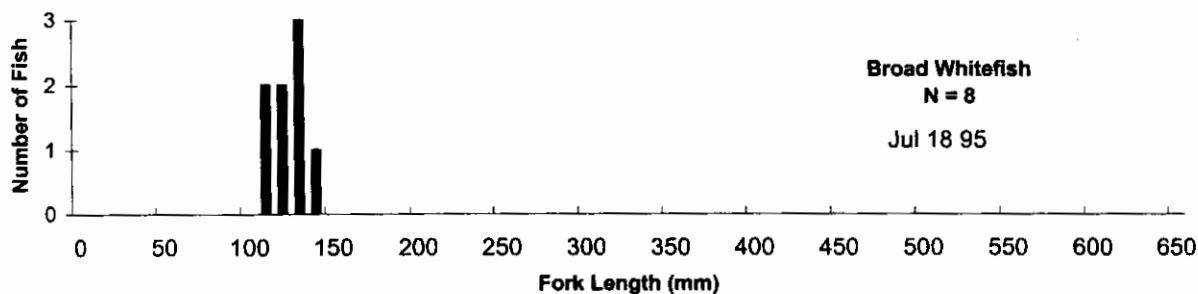
0 300 600 900 1200 1500 ft

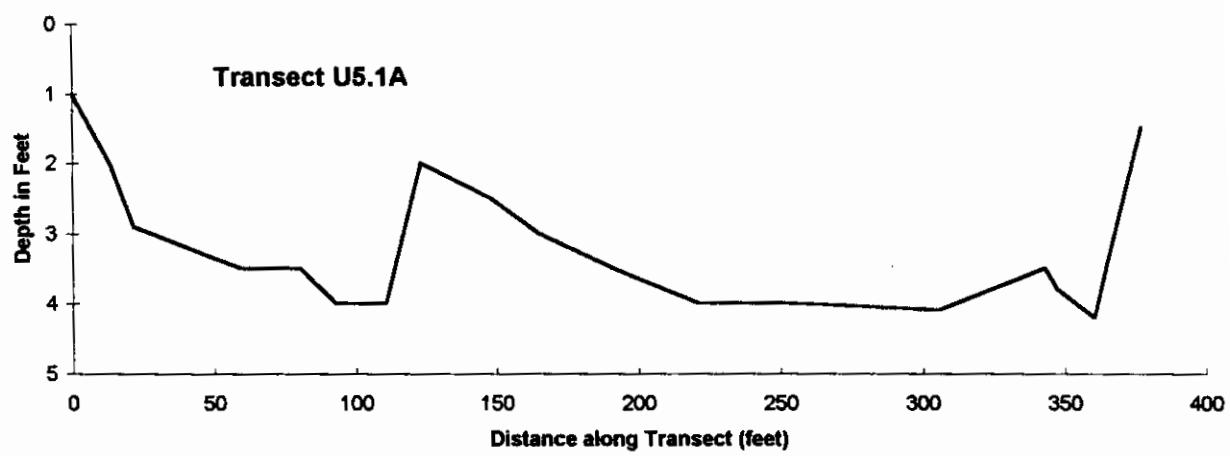
Lake U5.1

Other Names: M9525
Location: 70°19.94'N 150°58.19'W
USGS Quad Sheet: Harrison Bay B-2: T11N R5E, Sect 6
Habitat: Tapped Lake
Area: 104 acres
Maximum Depth: 4.2 feet
Active Outlet: Yes
Spec. Conductance: 348 $\mu\text{S}/\text{cm}$
Calculated Volume: 46.8 million gallons
Permittable Volume: 0.0 million gallons

Catch Record:

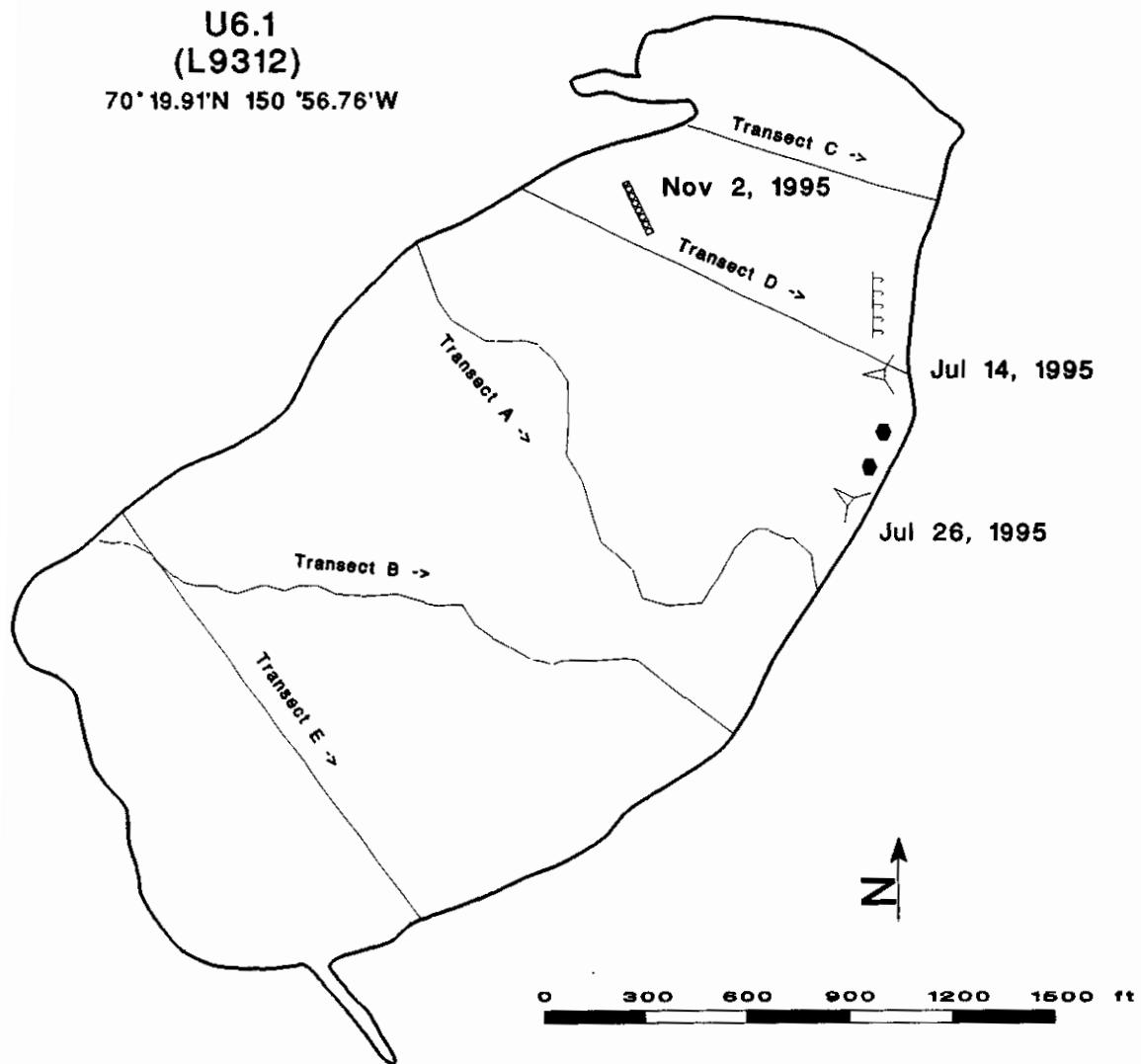
| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|-------------|-----------|-------------------|--------------------|---------------|---------------------|
| Fyke Net | Jul 18 95 | 23.0 | Broad whitefish | 8 | 112-141 |
| | | | Least cisco | 2 | 105, 116 |
| | | | 9spine stickleback | 376 | |
| Minnow Trap | Jul 18 95 | 46.0 | 9spine stickleback | 33 | |
| Set Line | Jul 18 95 | 23.1 | None | 0 | |





U6.1
(L9312)

70° 19.91'N 150° 56.76'W



Lake U6.1

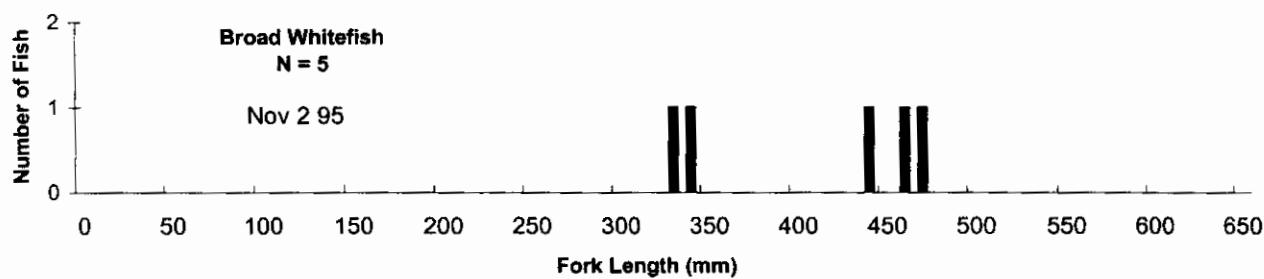
Other Names: L9312
Location: 70°19.91'N 150°56.76'W
USGS Quad Sheet: Harrison Bay B-2: T11N R5E, Sect 5
Habitat: Perched Lake (Infrequent Flooding)
Area: 100 acres
Maximum Depth: 14.1 feet
Active Outlet: No
Spec. Conductance: 60 $\mu\text{S}/\text{cm}$
pH: 7.7-8.2
Calculated Volume: 151.4 million gallons
Permittable Volume: 11.4 million gallons

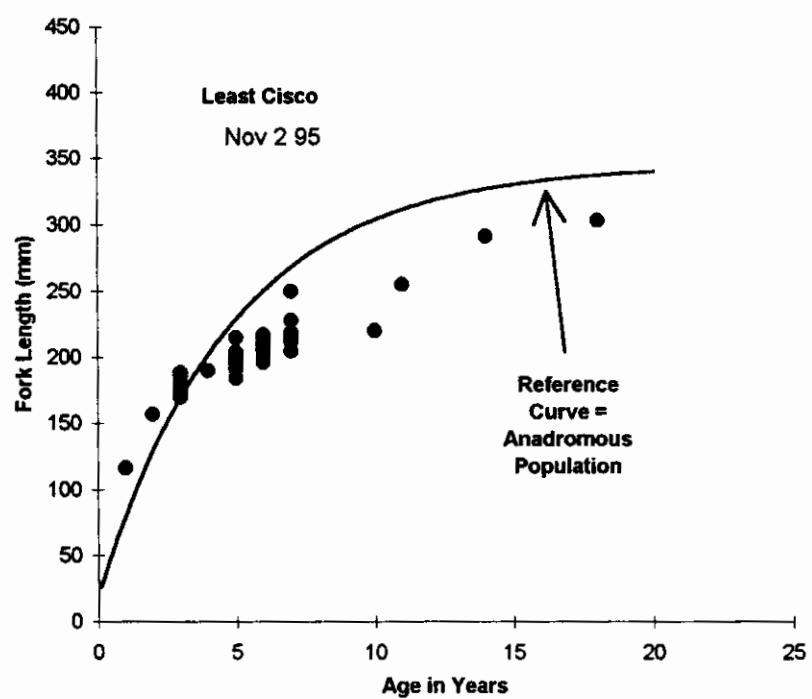
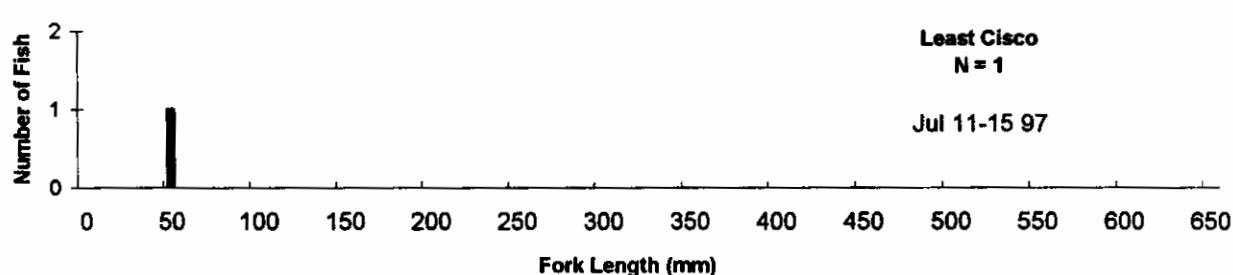
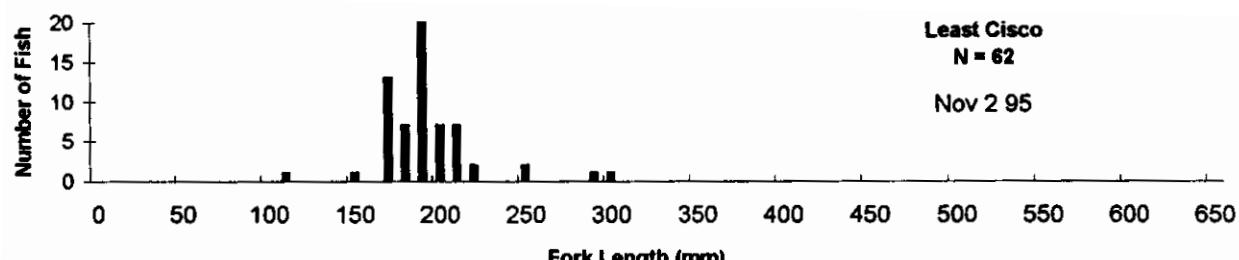
Water Quality:

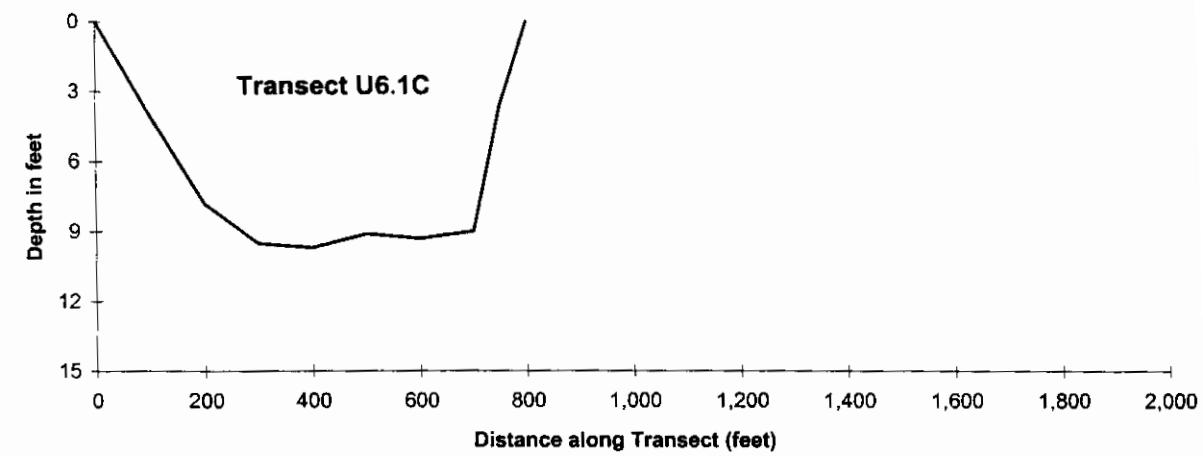
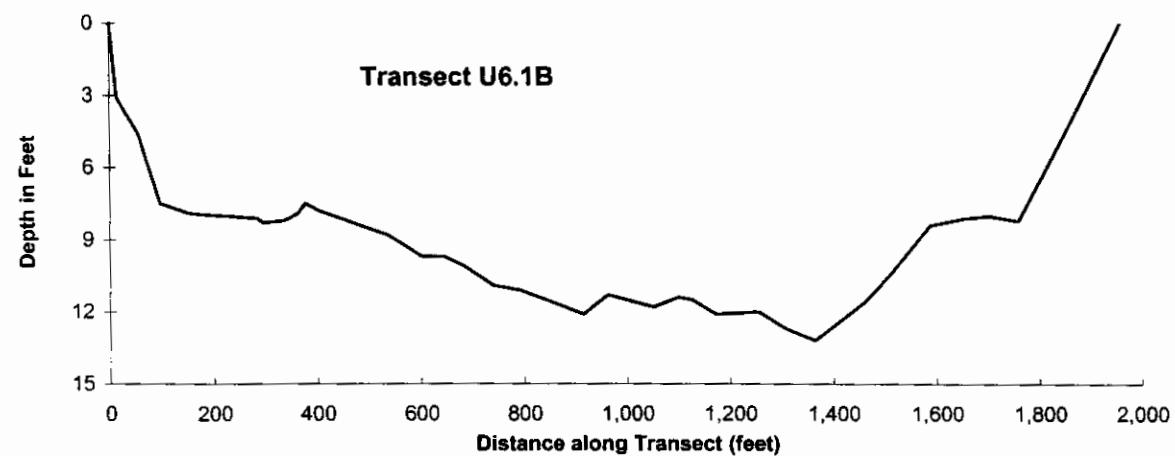
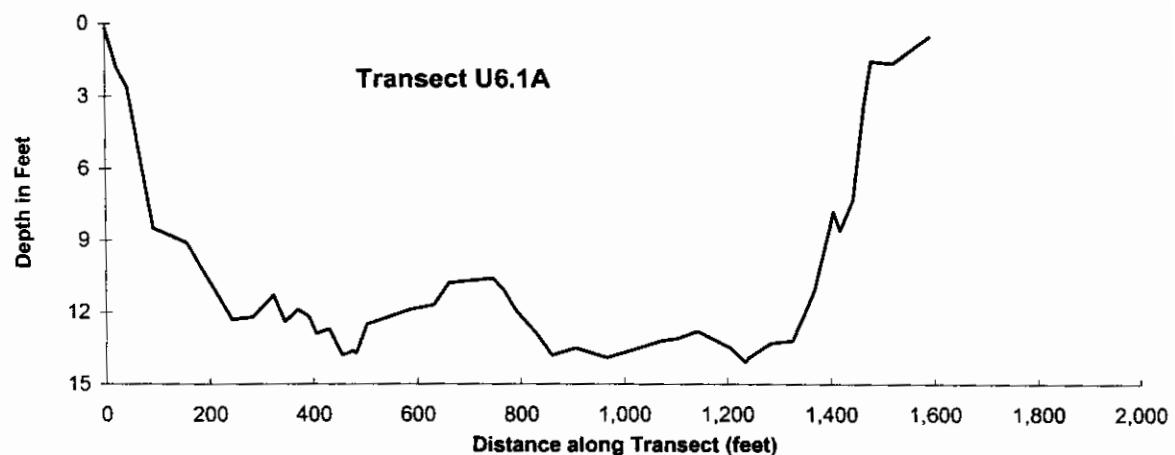
| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------|----------------|---------------|------------------|----------------|--|-------------------------------|------------|
| 1993 | 8 | 4.5 | 2.1 | 7.2 | 27 | 150 | J. Lobdell |

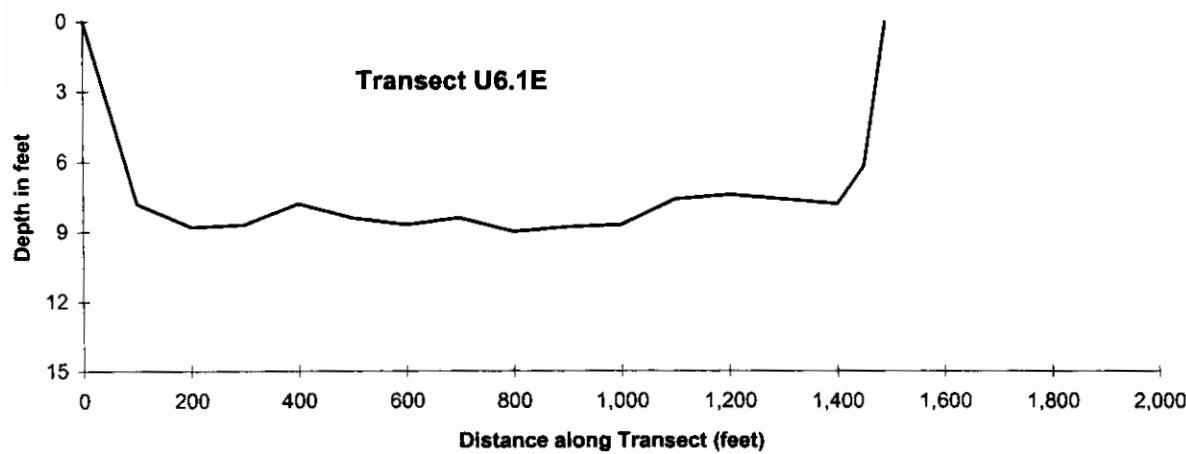
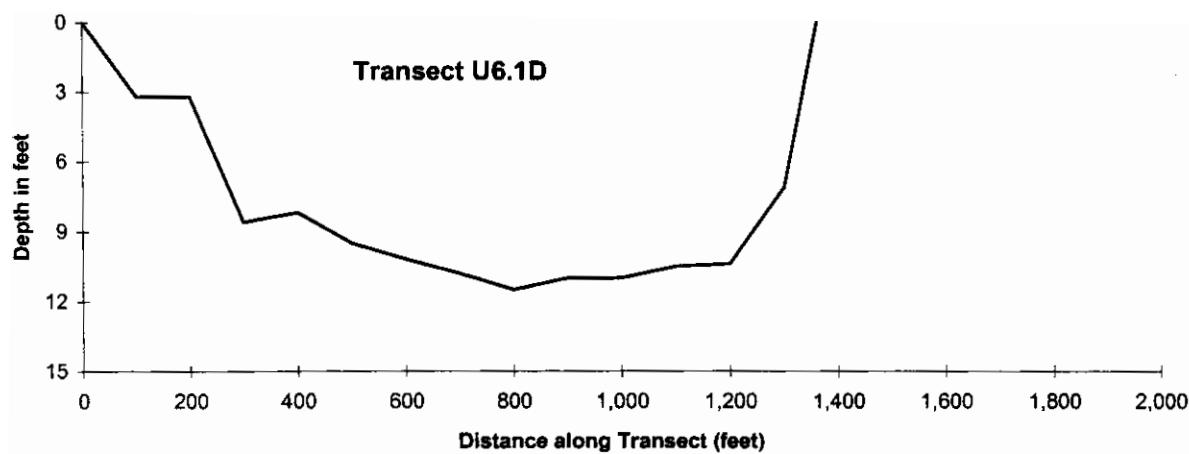
Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|-------------|--------------|----------------|--------------------|---------------|------------------|
| Fyke Net | Jul 14 95 | 23.9 | Alaska blackfish | 1 | |
| | | | Slimy sculpin | 1 | |
| | | | 9spine stickleback | 10 | |
| Fyke Net | Jul 26 95 | 20.0 | Broad whitefish | 1 | 428 |
| | | | 9spine stickleback | 2 | |
| Minnow Trap | Jul 14 95 | 48.6 | Slimy sculpin | 2 | |
| | | | 9spine stickleback | 1 | |
| Set Line | Jul 14 95 | 23.5 | None | 0 | |
| Gill Net | Nov 2 95 | 21.7 | Least cisco | 62 | 116-303 |
| | | | Broad whitefish | 5 | 334-470 |
| Fyke Net | Jul 11-15 97 | 116.6 | Least cisco | 1 | 56 |
| | | | Alaska blackfish | 5 | 70 |
| | | | Slimy sculpin | 8 | 38-84 |
| | | | 9spine stickleback | 57 | |







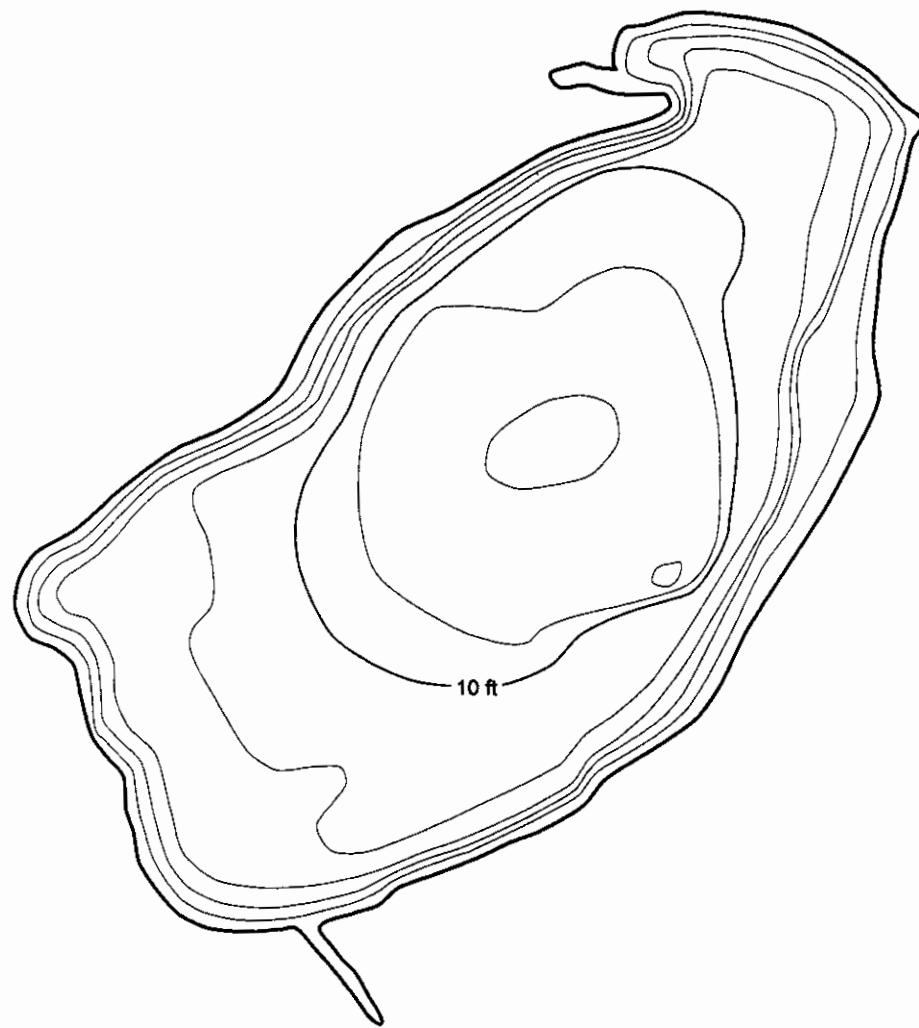


Contour Map of Lake U6.1 (L9312)
depth contours based on 1995, 1997 and 1998 data

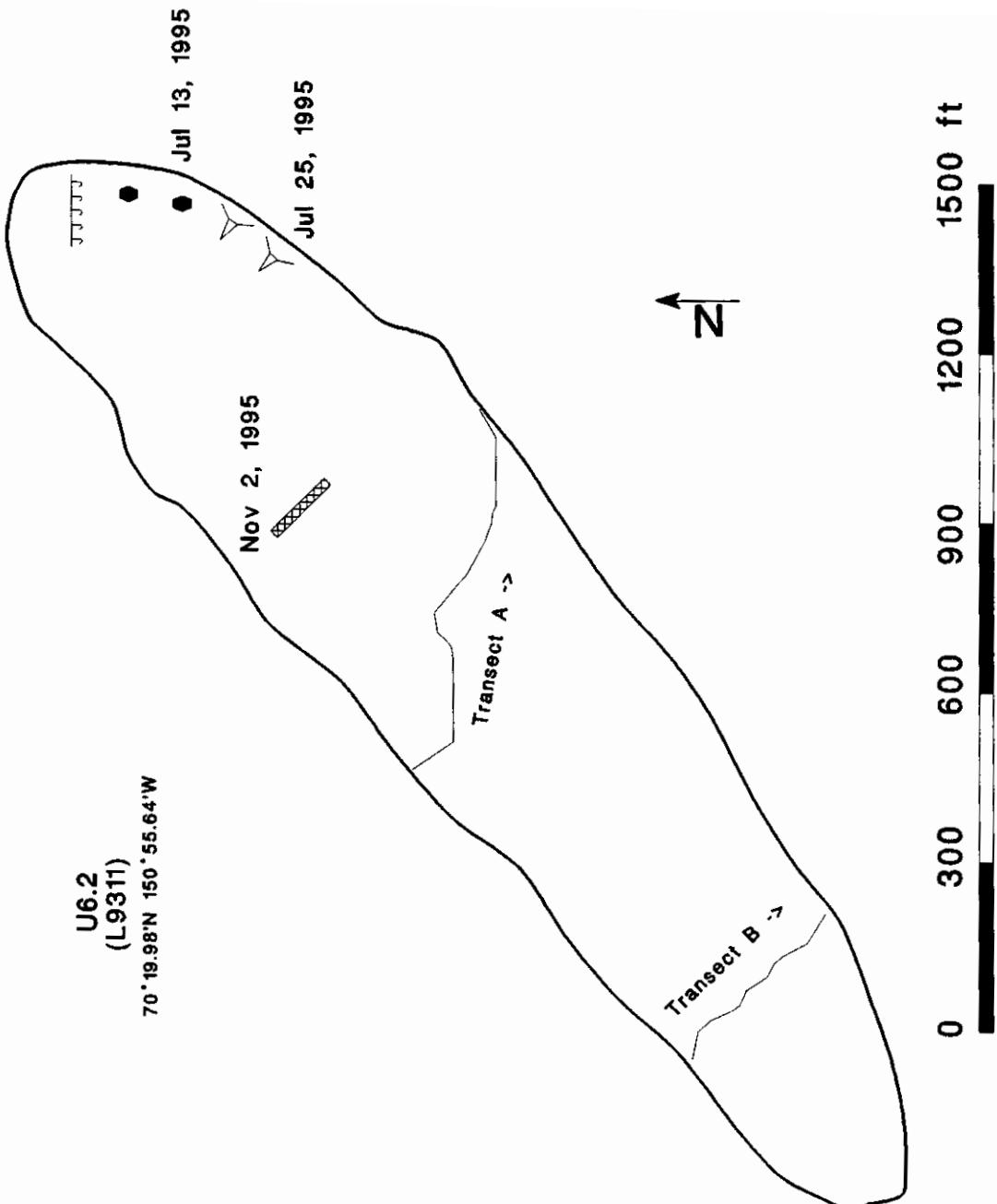
MJM Research

December 1998

Disclaimer: Contours are approximate interpretations
of available depth information to estimate lake volume,
they should not be used for navigation or design.



0 300 600 900 1200 1500 ft



Lake U6.2

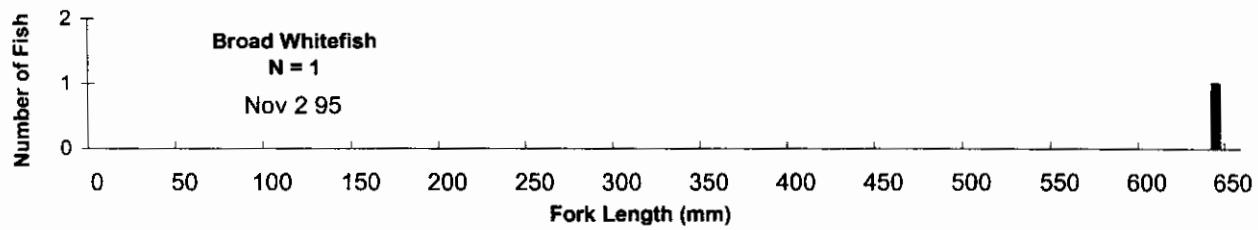
Other Names: L9311
Location: 70°19.98'N 150°55.64'W
USGS Quad Sheet: Harrison Bay B-2: T11N R5E, Sect 5
Habitat: Perched Lake (Infrequent Flooding)
Area: 22 acres
Maximum Depth: 12.5 feet
Active Outlet: No
Spec. Conductance: 127 $\mu\text{S}/\text{cm}$
pH: 7.9-8.1
Calculated Volume: 28.9 million gallons
Permittable Volume: 1.9 million gallons

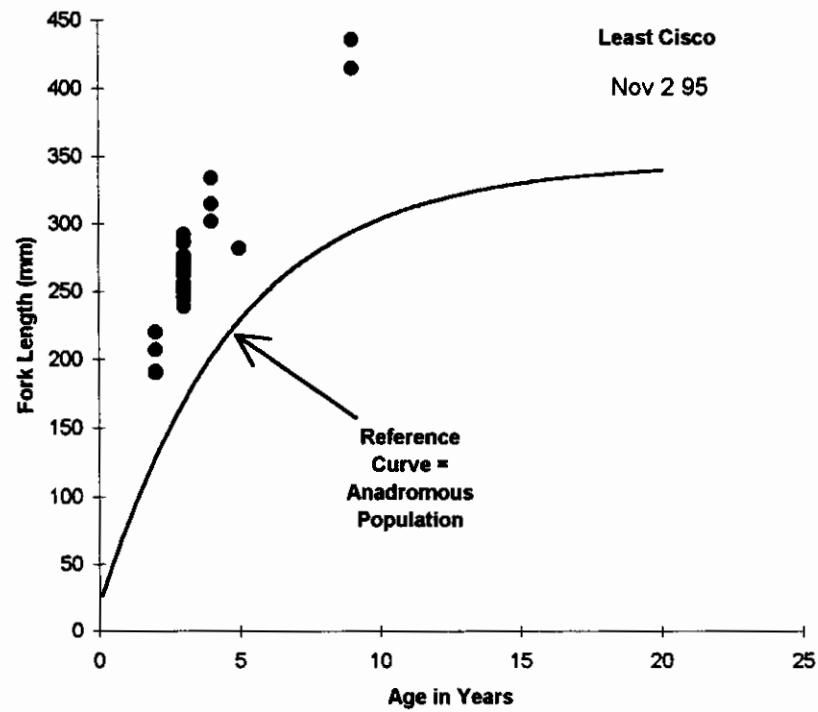
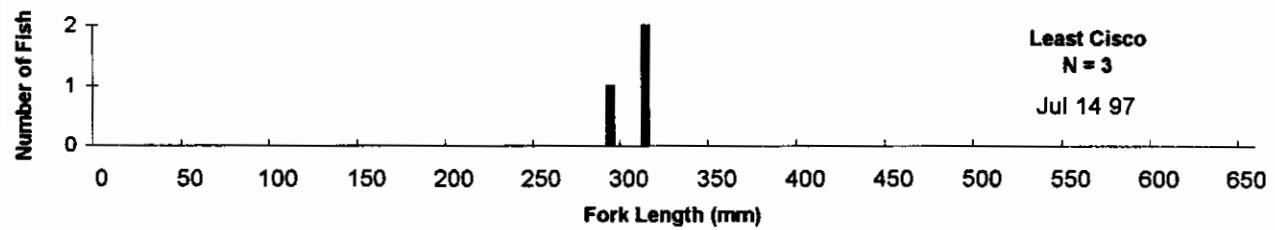
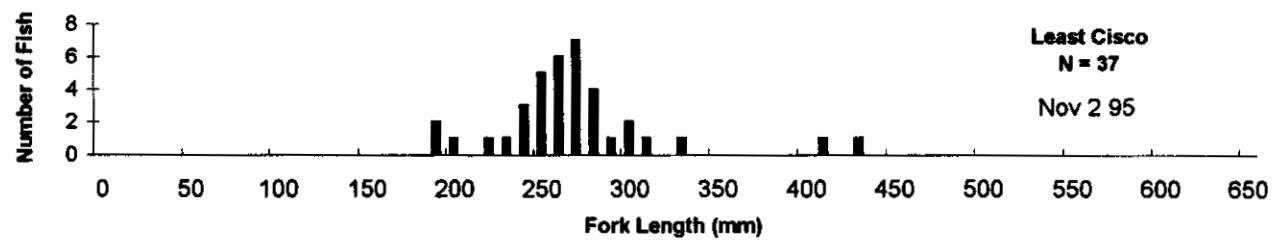
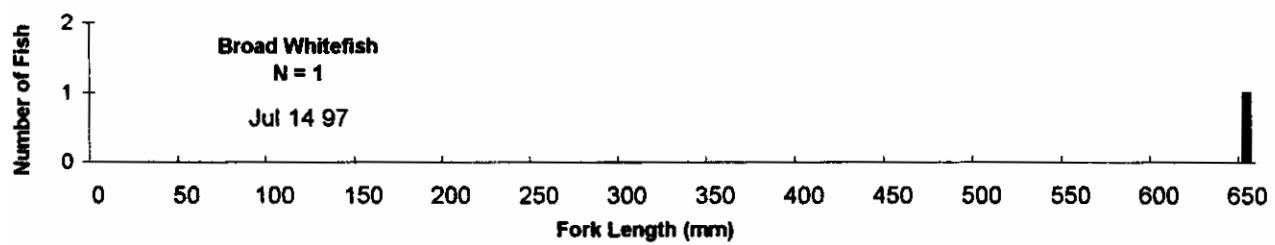
Water Quality:

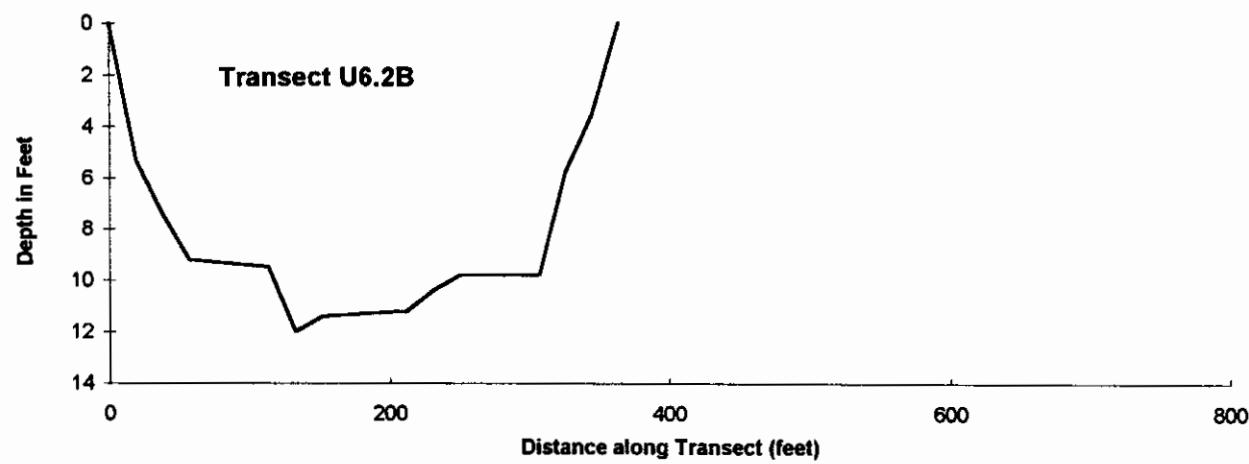
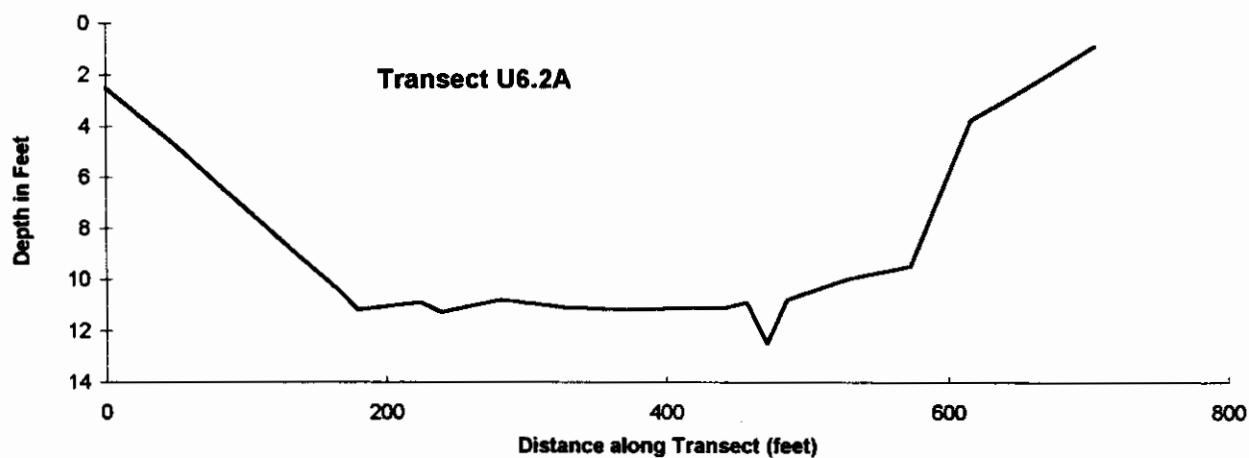
| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------|----------------|---------------|------------------|----------------|--|-------------------------------|------------|
| 1993 | 10 | 5.0 | 4.7 | 14 | 54 | 100 | J. Lobdell |

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|-------------|--------------|----------------|-------------------------------------|---------------|------------------|
| Fyke Net | Jul 13 95 | 22.6 | 9spine stickleback | 460 | |
| Fyke Net | Jul 25 95 | 26.9 | 9spine stickleback | 39 | |
| Minnow Trap | Jul 13 95 | 38.6 | None | 0 | |
| Set Line | Jul 13 95 | 22.7 | None | 0 | |
| Gill Net | Nov 2 95 | 20.8 | Least cisco Broad whitefish | 37 1 | 190-436 645 |
| Fyke Net | Jul 12-15 97 | 92.8 | Slimy sculpin 9spine stickleback | 2 102 | |
| Gill Net | Jul 14 97 | 4.7 | Broad whitefish Least cisco | 1 3 | 670 297-312 |







U6.3
(L9310)
70°19.84'N 150°55.44'W



Lake U6.3

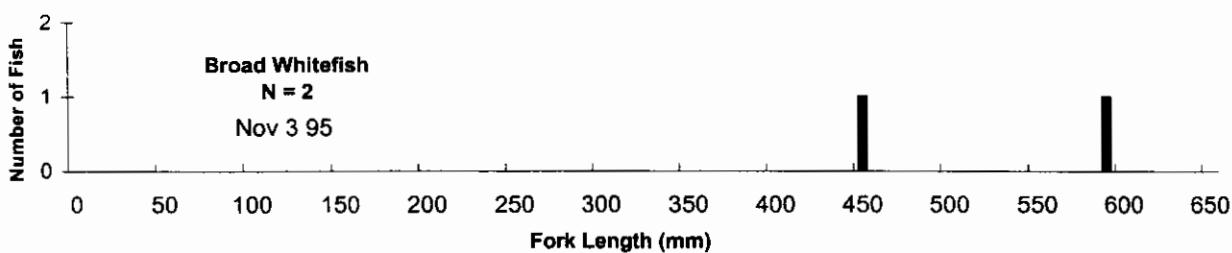
Other Names: L9310
Location: 70°19.84'N 150°55.44'W
USGS Quad Sheet: Harrison Bay B-2: T11N R5E, Sect 5
Habitat: Perched Lake (Infrequent Flooding)
Area: 61 acres
Maximum Depth: 23.5 feet
Active Outlet: No
Spec. Conductance: 126 $\mu\text{S}/\text{cm}$
pH: 7.9-8.1
Calculated Volume: 153.0 million gallons
Permittable Volume: 16.1 million gallons

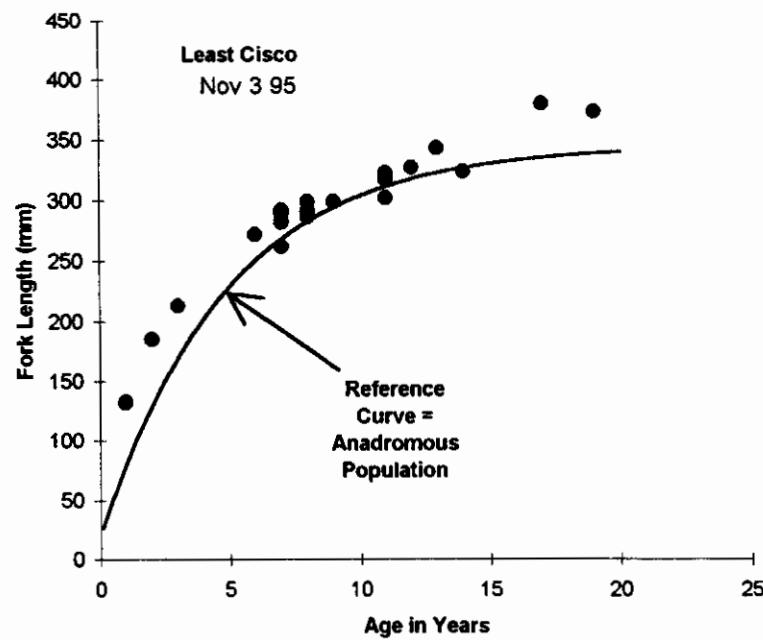
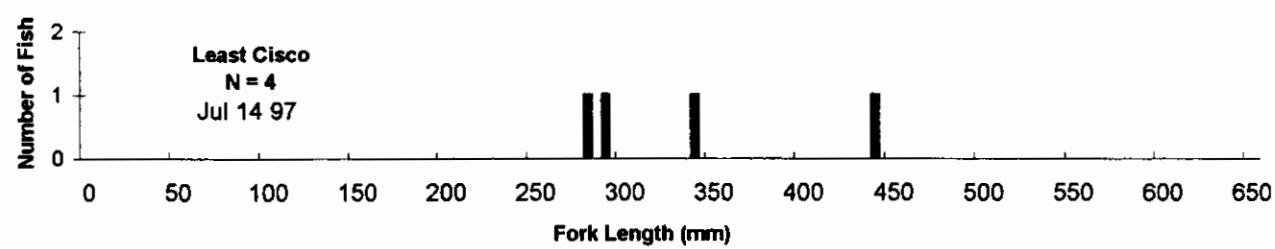
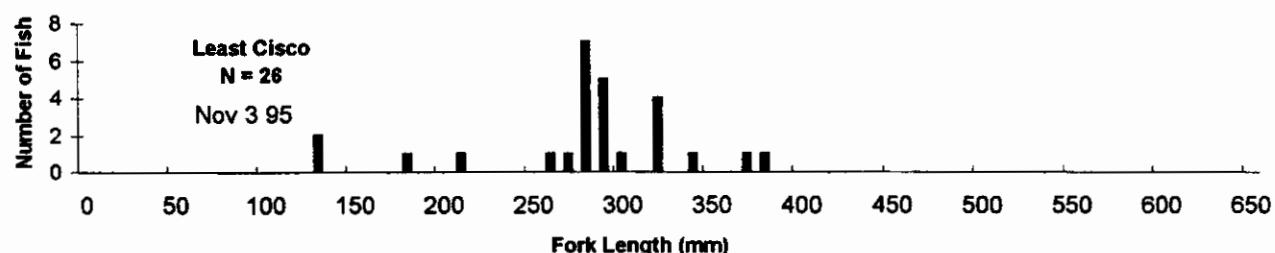
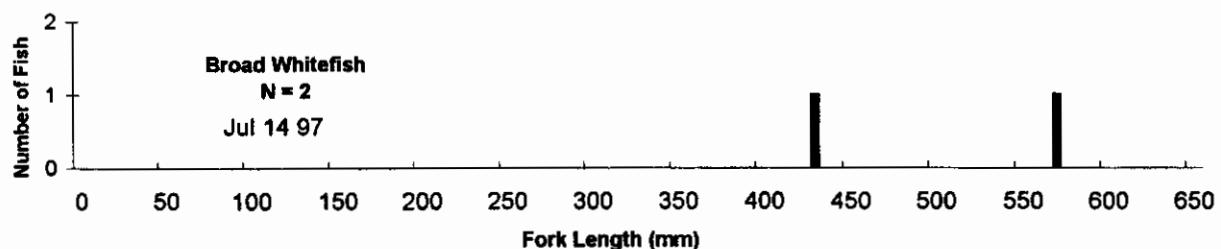
Water Quality:

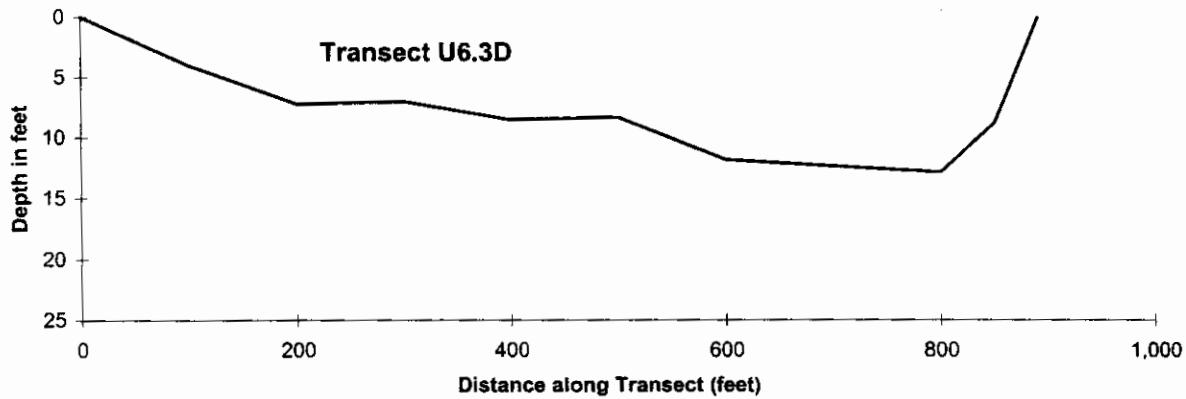
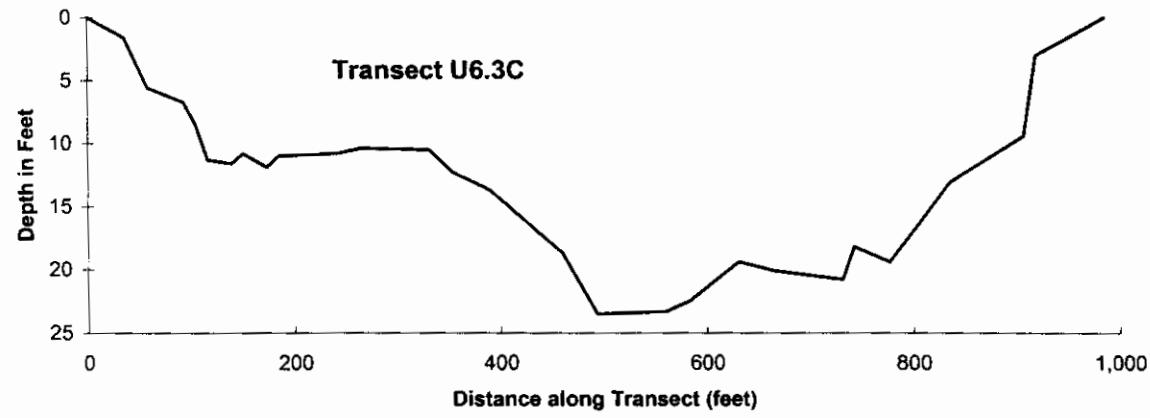
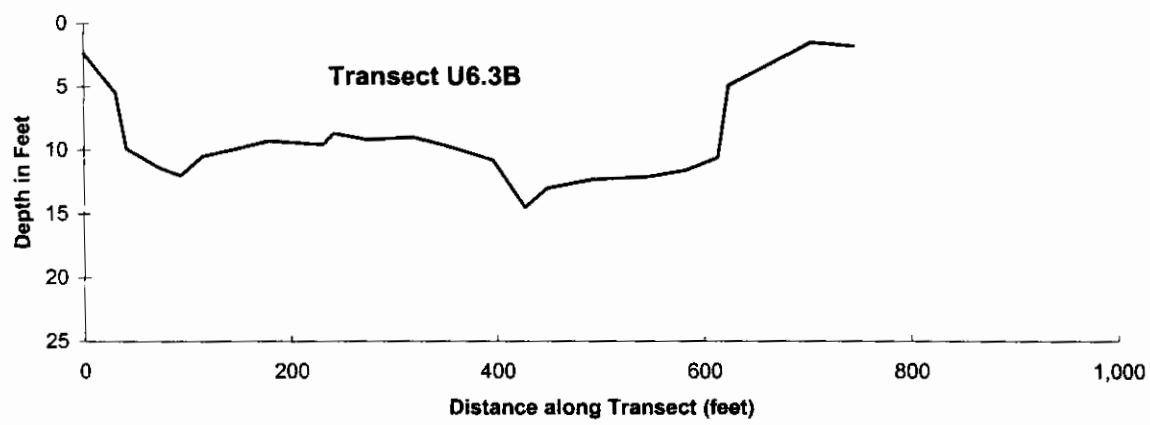
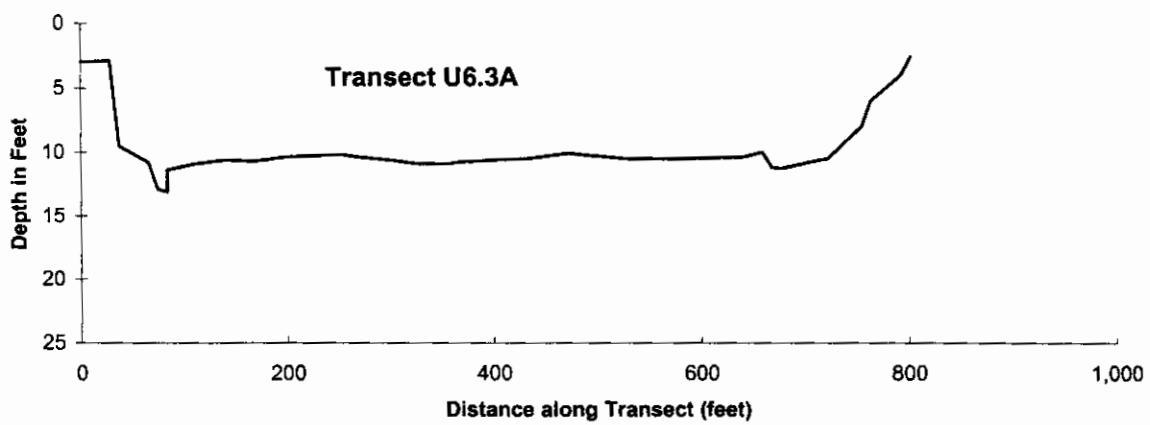
| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------|----------------|---------------|------------------|----------------|--|-------------------------------|------------|
| 1993 | 10 | 4.8 | 3.7 | 11 | 43 | 130 | J. Lobdell |

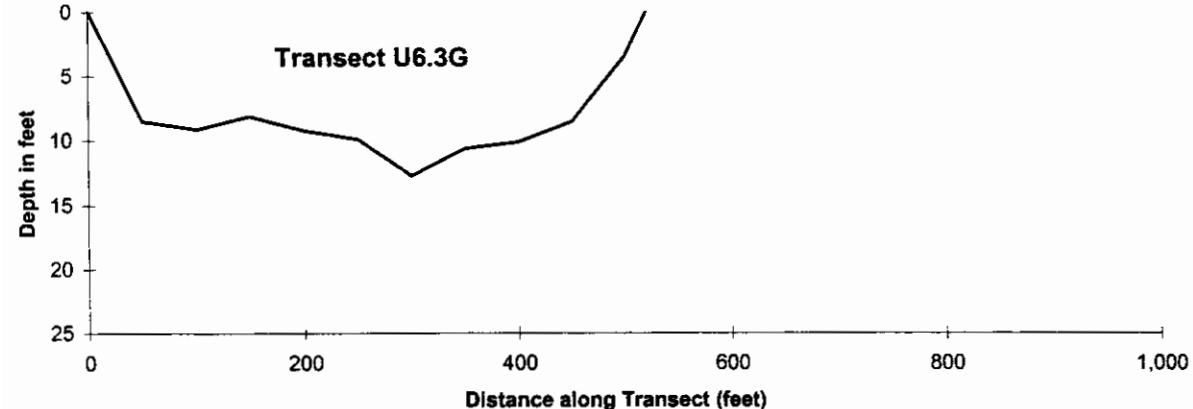
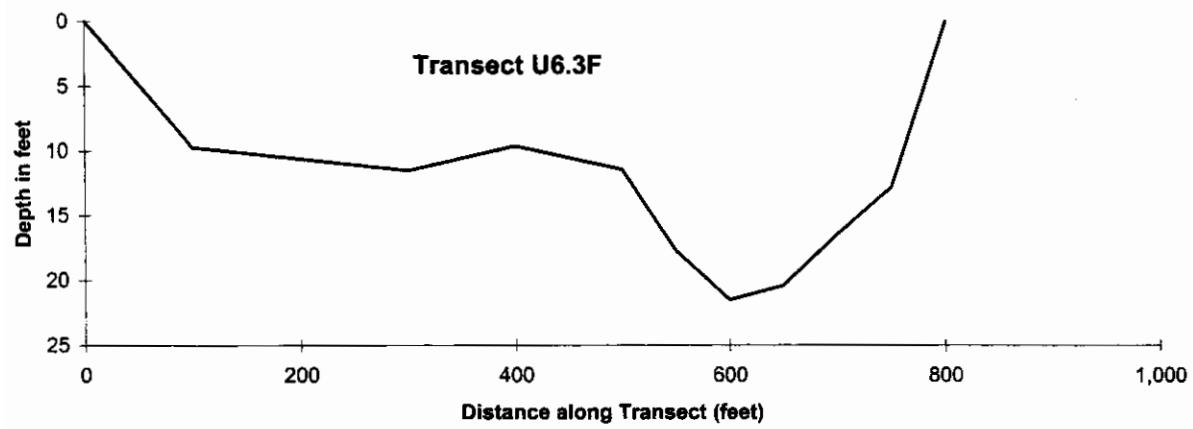
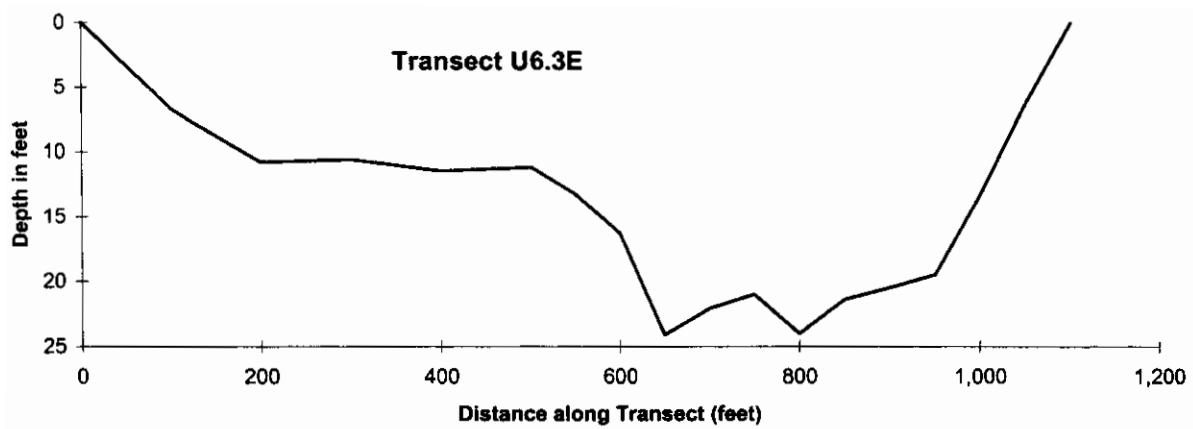
Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|-------------|--------------|----------------|--------------------|---------------|------------------|
| Fyke Net | Jul 13 95 | 18.3 | Alaska blackfish | 1 | |
| | | | Slimy sculpin | 3 | |
| | | | 9spine stickleback | 130 | |
| Fyke Net | Jul 25 95 | 20.3 | Least cisco | 1 | 317 |
| | | | Alaska blackfish | 1 | |
| | | | 9spine stickleback | 41 | |
| Minnow Trap | Jul 13 95 | 37.4 | None | 0 | |
| Set Line | Jul 13 95 | 18.1 | None | 0 | |
| Gill Net | Nov 3 95 | 22.7 | Least cisco | 26 | 132-380 |
| | | | Broad whitefish | 2 | 457-594 |
| Fyke Net | Jul 12-15 97 | 94.6 | Least cisco | 1 | 283 |
| | | | Alaska blackfish | 2 | 108 |
| | | | Slimy sculpin | 6 | 52-74 |
| | | | 9spine stickleback | 37 | |
| Gill Net | Jul 14 97 | 4.9 | Broad whitefish | 2 | 437-576 |
| | | | Least cisco | 5 | 298-446 |







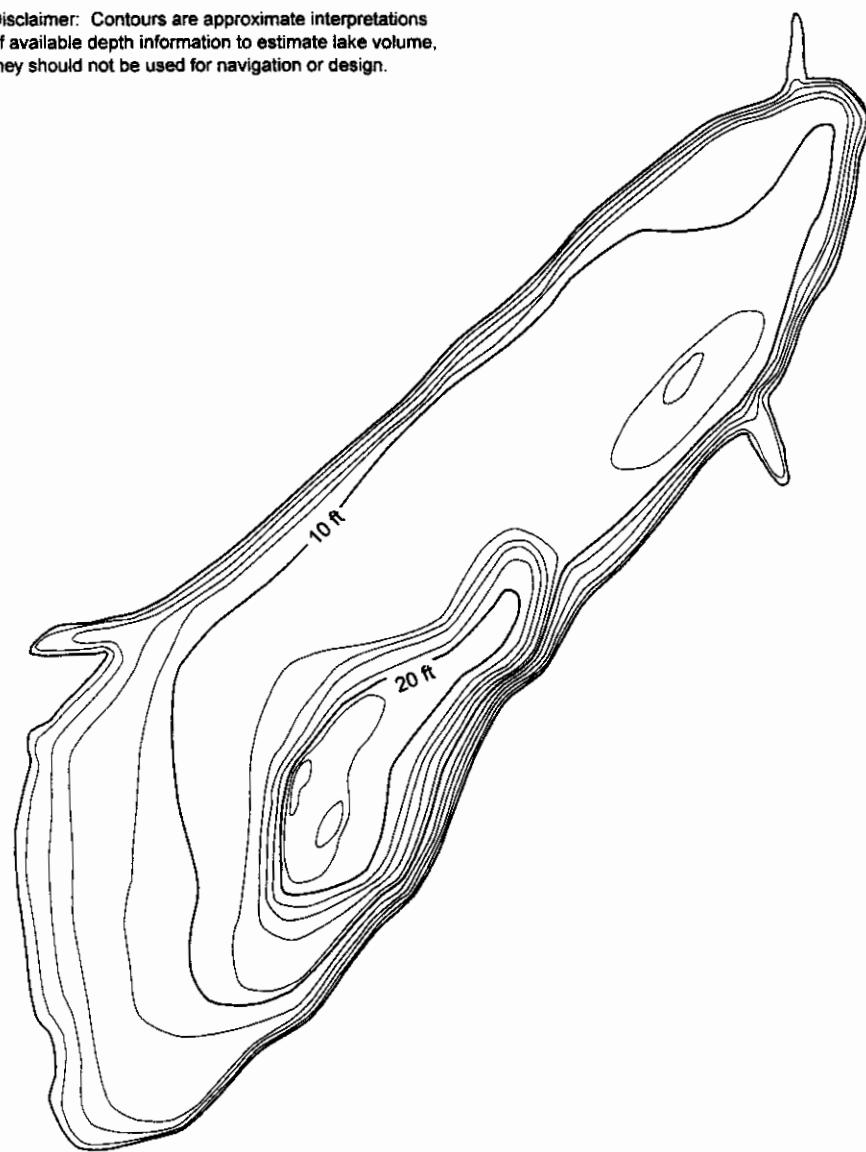


Contour Map of Lake U6.3 (L9310)
contour data from 1995, 1997 and 1998

MJM Research

December 1998

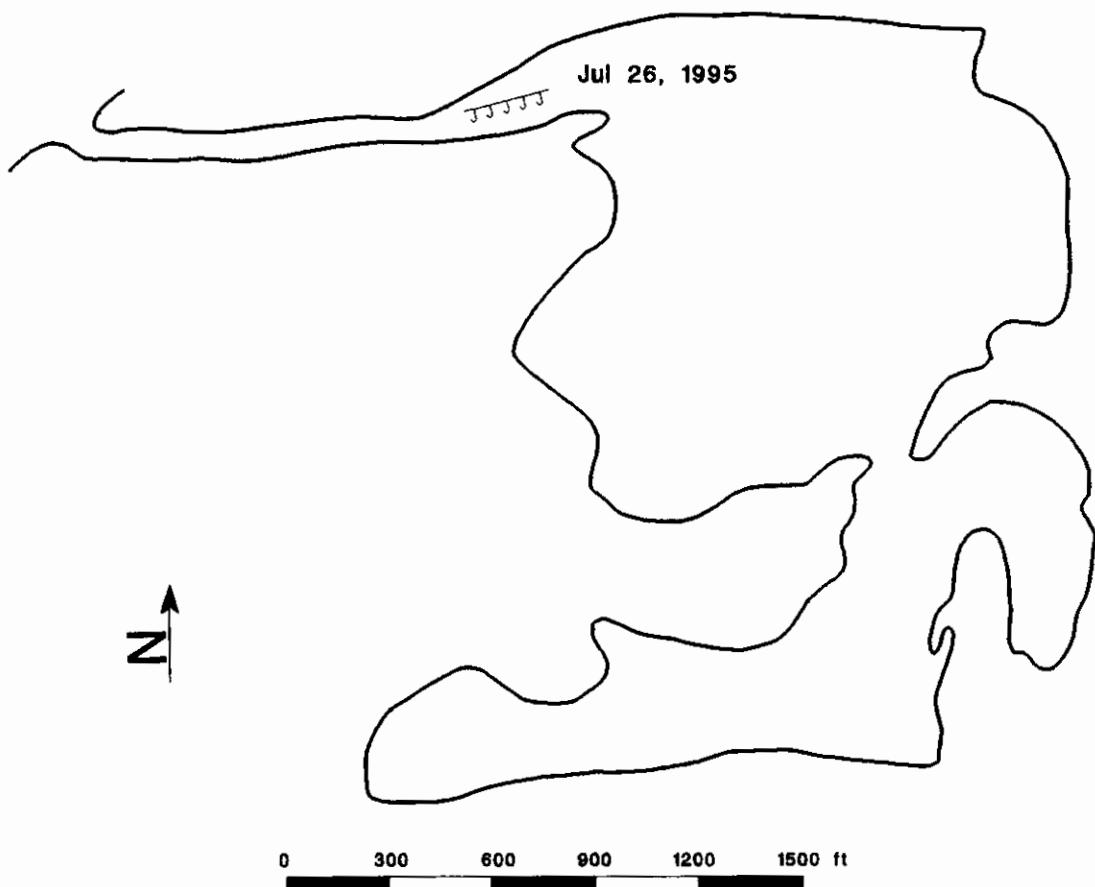
Disclaimer: Contours are approximate interpretations
of available depth information to estimate lake volume,
they should not be used for navigation or design.



0 300 600 900 1200 1500 ft

U7.1
(M9527)
70° 19.38'N 150° 52.24'W

Jul 26, 1995



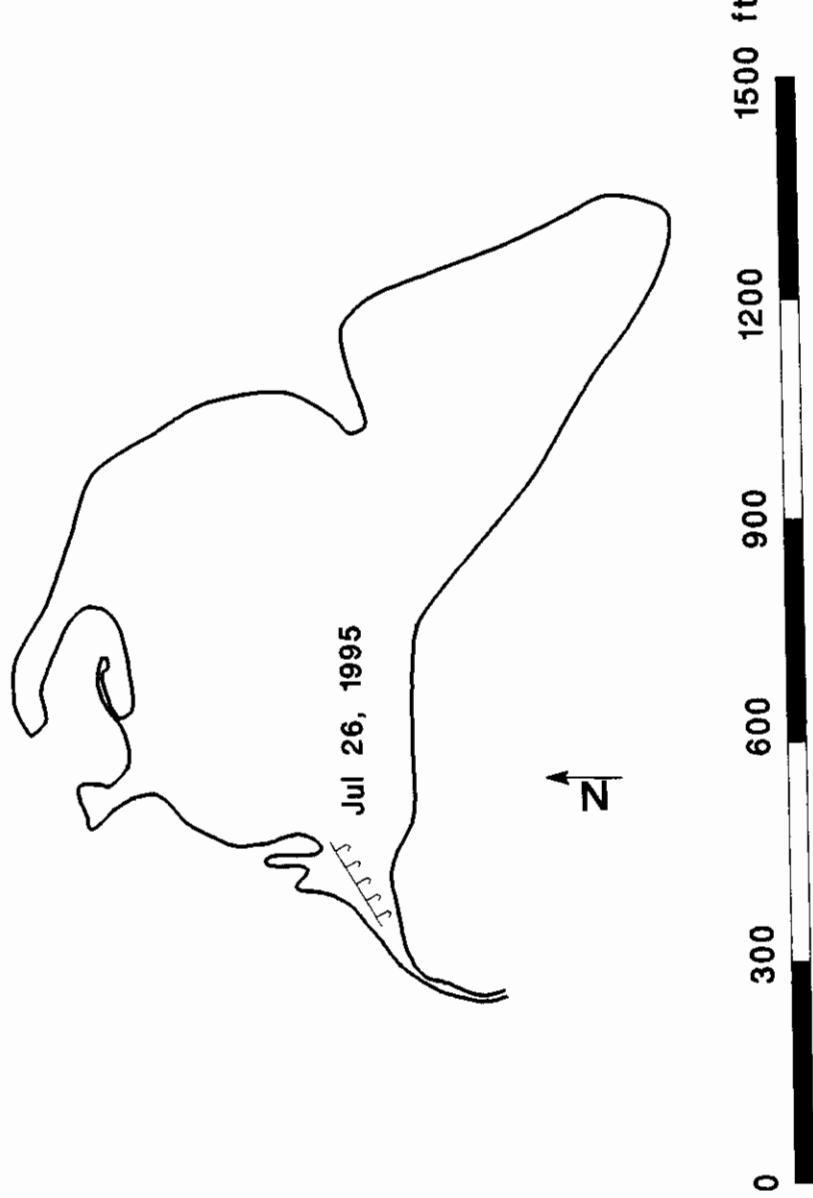
Lake U7.1

Other Names: M9527
Location: 70°19.38'N 150°52.24'W
USGS Quad Sheet: Harrison Bay B-2: T11N R5E, Sect 9
Habitat: Tapped Lake
Area: 44 acres
Maximum Depth: ? feet
Active Outlet: Yes
Calculated Volume: ? million gallons
Permittable Volume: ? million gallons

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|----------|-----------|-------------------|---------|------------------|
| Set Line | Jul 26 95 | 20.3 | None | 0 |

U7.2
(M9526)
70°19.83'N 150°52.05'W



Lake U7.2

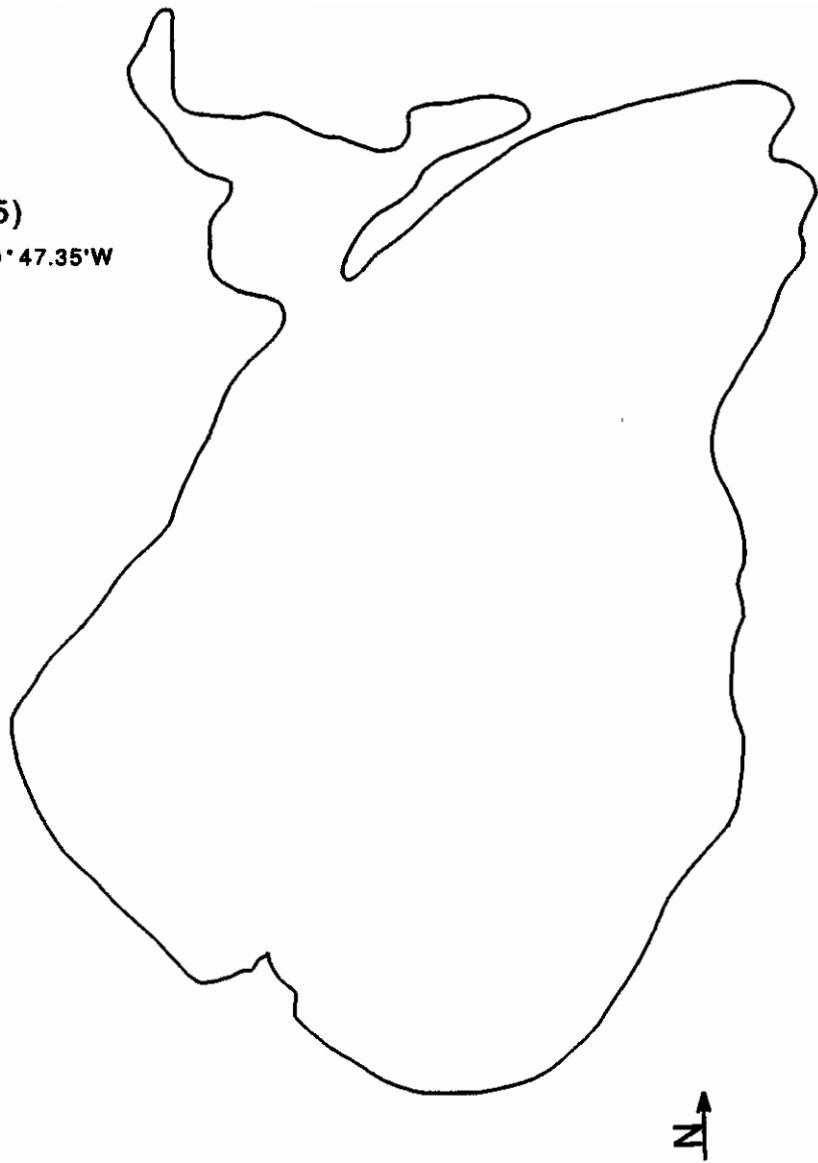
Other Names: M9526
Location: 70°19.83'N 150°52.05'W
USGS Quad Sheet: Harrison Bay B-2: T11N R5E, Sect 4
Habitat: Tapped Lake
Area: 7 acres
Maximum Depth: ? feet
Active Outlet: Yes
Calculated Volume: ? million gallons
Permittable Volume: ? million gallons

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|----------|-----------|-------------------|---------|------------------|
| Set Line | Jul 26 95 | 20.3 | None | 0 |

U9.1
(B8535)

70°19.67'N 150°47.35'W



0 300 600 900 1200 1500 ft

Lake U9.1

Other Names: B8535, L9275
Location: 70°19.67'N 150°47.35'W
USGS Quad Sheet: Harrison Bay B-2: T11N R5E, Sect 11
Habitat: Perched Lake (Infrequent Flooding)
Area: 376 acres
Maximum Depth: 18 feet
Active Outlet: No
Spec. Conductance: 177 $\mu\text{S}/\text{cm}$ (1985)
pH: 9.0 (1985)
Calculated Volume: 727.5 million gallons
Permittable Volume: 66.7 million gallons

Water Quality:

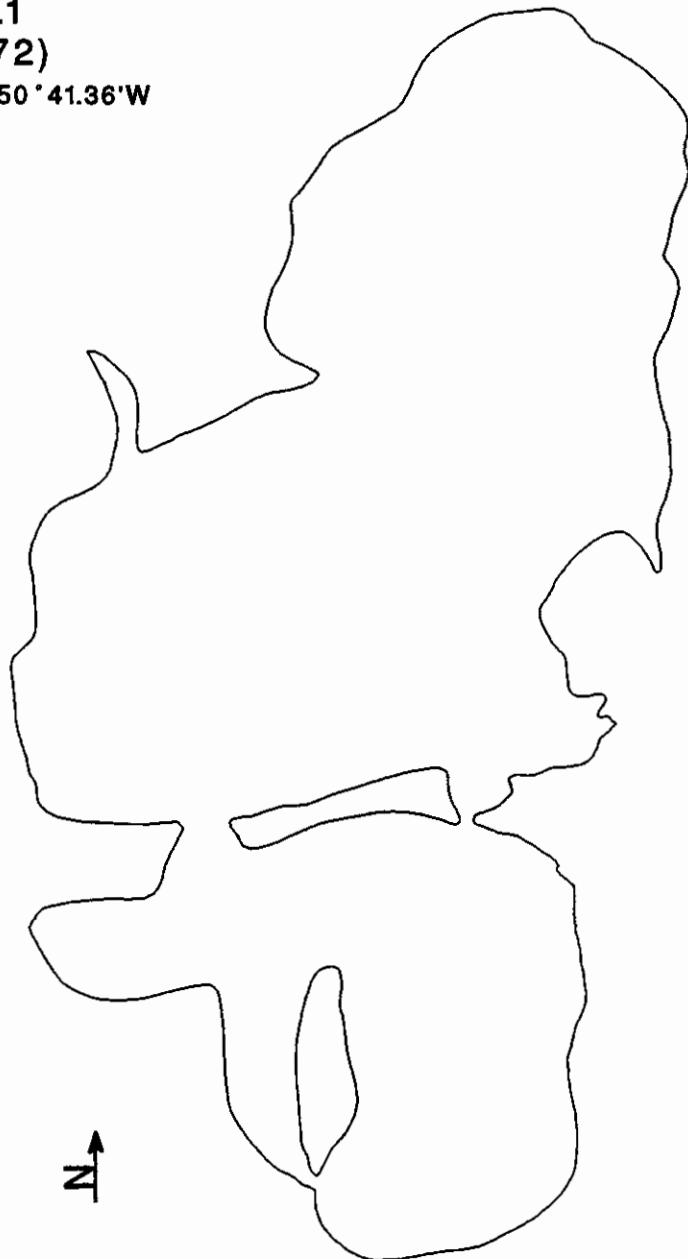
| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness | Total Dissolved Solids (mg/l) | Source |
|--------------------|-------------------|------------------|---------------------|-------------------|--------------------------------|--|---------------------|
| | | | | | [CaCO ₃] (mg/l) | | |
| 1985 | | | | | 103 | | Bendock & Burr 1986 |
| 1992 | 13 | 6.2 | 9.8 | 22 | 95 | 140 | J. Lobdell |

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|----------|-----------------|-------------------|-------------|------------------|
| Gill Net | Jul 16-19, 1985 | ~24 | Least cisco | 0.85/hr |

Source of 1985 data: Bendock & Burr 1986

U11.1
(L9272)
70° 20.11'N 150° 41.36'W



Lake U11.1

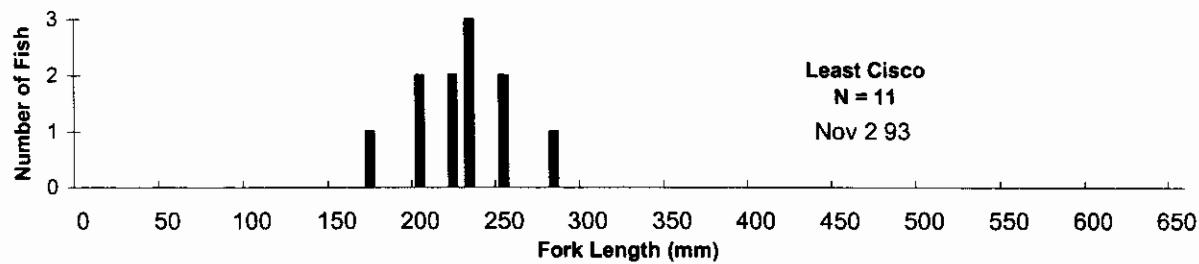
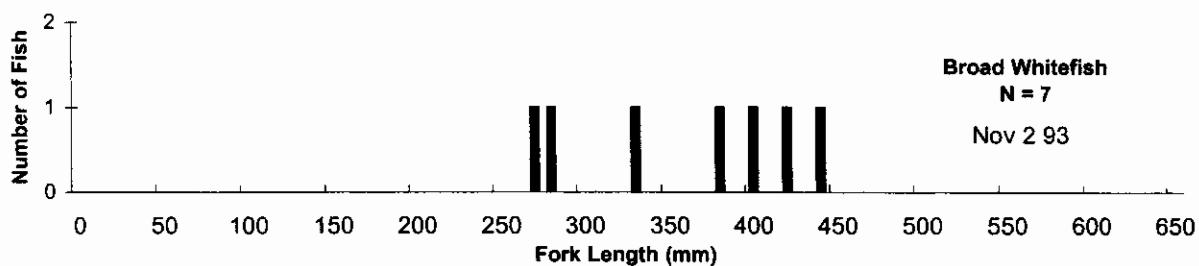
Other Names: L9272; M9306
Location: 70°20.11'N 150°41.36'W
USGS Quad Sheet: Harrison Bay B-2: T11N R6E, Sect 6, 7
Habitat: Perched Lake (Infrequent Flooding)
Area: 305 acres
Maximum Depth: 17.5 feet
Active Outlet: No
Spec. Conductance: 213 $\mu\text{S}/\text{cm}$
Calculated Volume: 573.7 million gallons
Permittable Volume: 51.6 million gallons

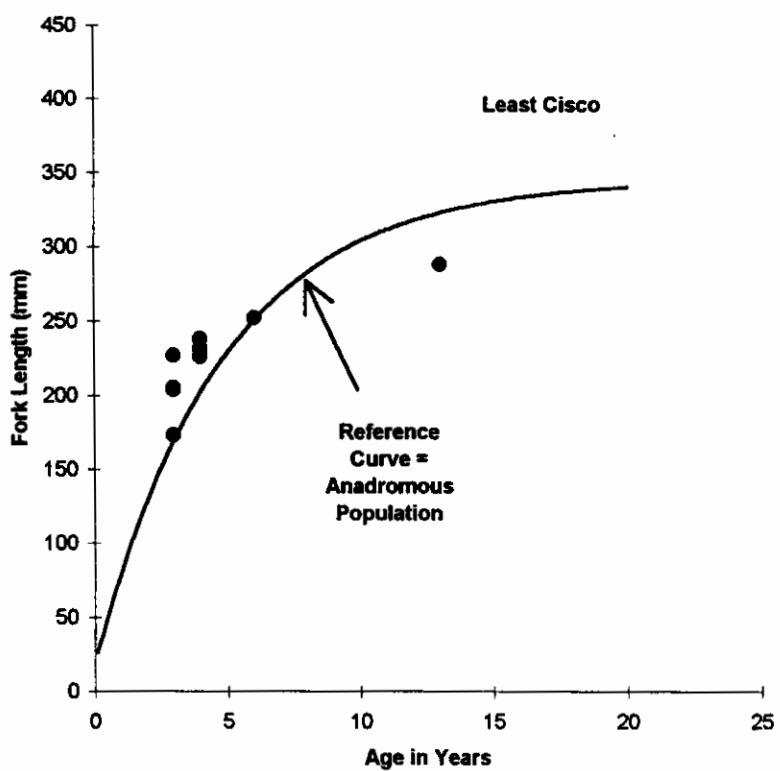
Water Quality:

| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------------|-------------------|------------------|---------------------|-------------------|---|--|------------|
| 1992 | 3.7 | 2.6 | 3 | 10 | 37 | <50 | J. Lobdell |

Catch Record:

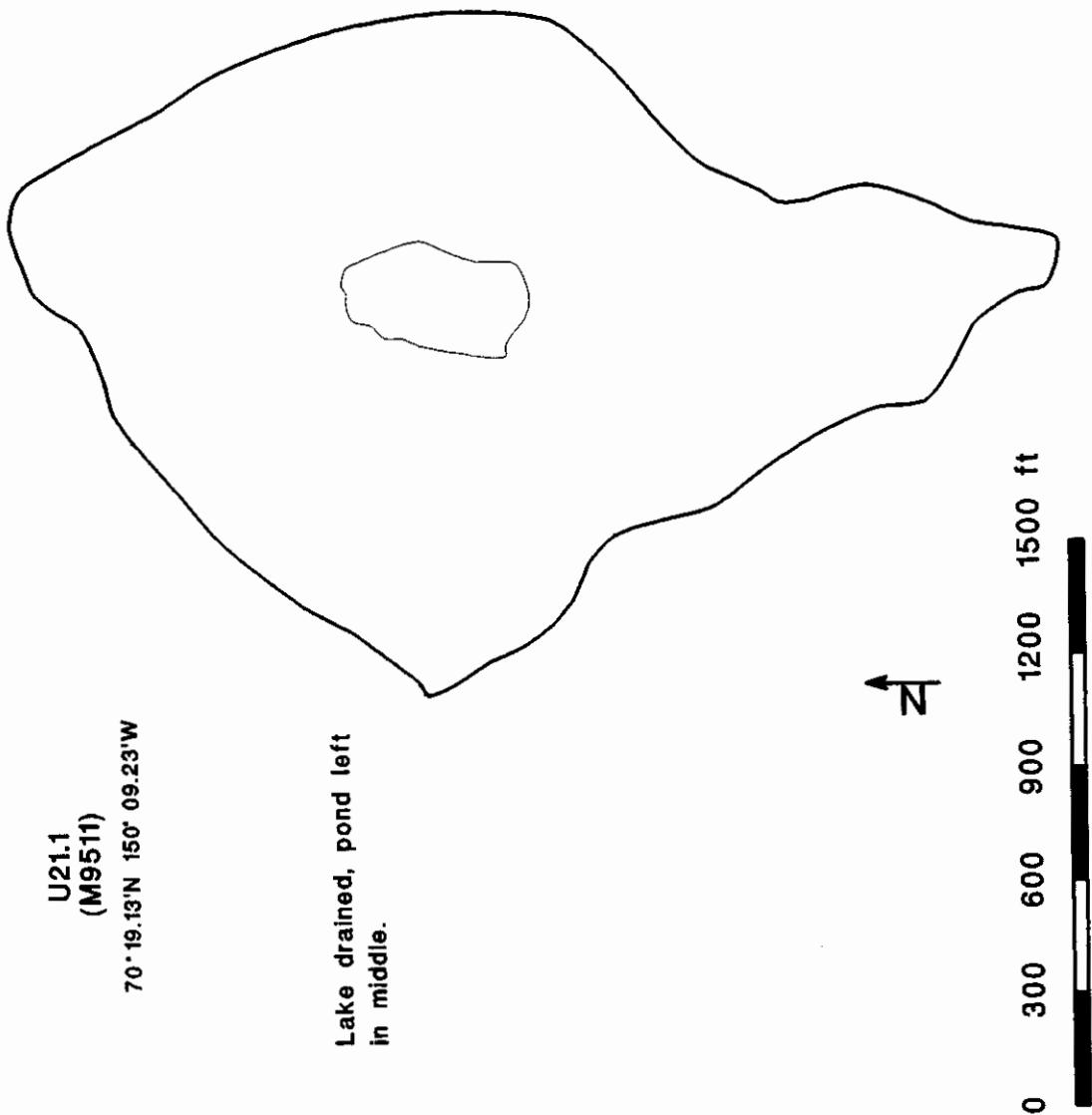
| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|-------------|----------|-------------------|-----------------|------------------|---------------------|
| Gill Net | Nov 2 93 | 21.8 | Broad whitefish | 7 | 273-445 |
| | | | Least cisco | 11 | 173-288 |
| | | | Burbot | 1 | 647 |
| Minnow Trap | Nov 2 93 | 21.8 | None | 0 | |





U21.1
(M9511)
70° 19.13'N 150° 09.23'W

Lake drained, pond left
in middle.



Lake U21.1

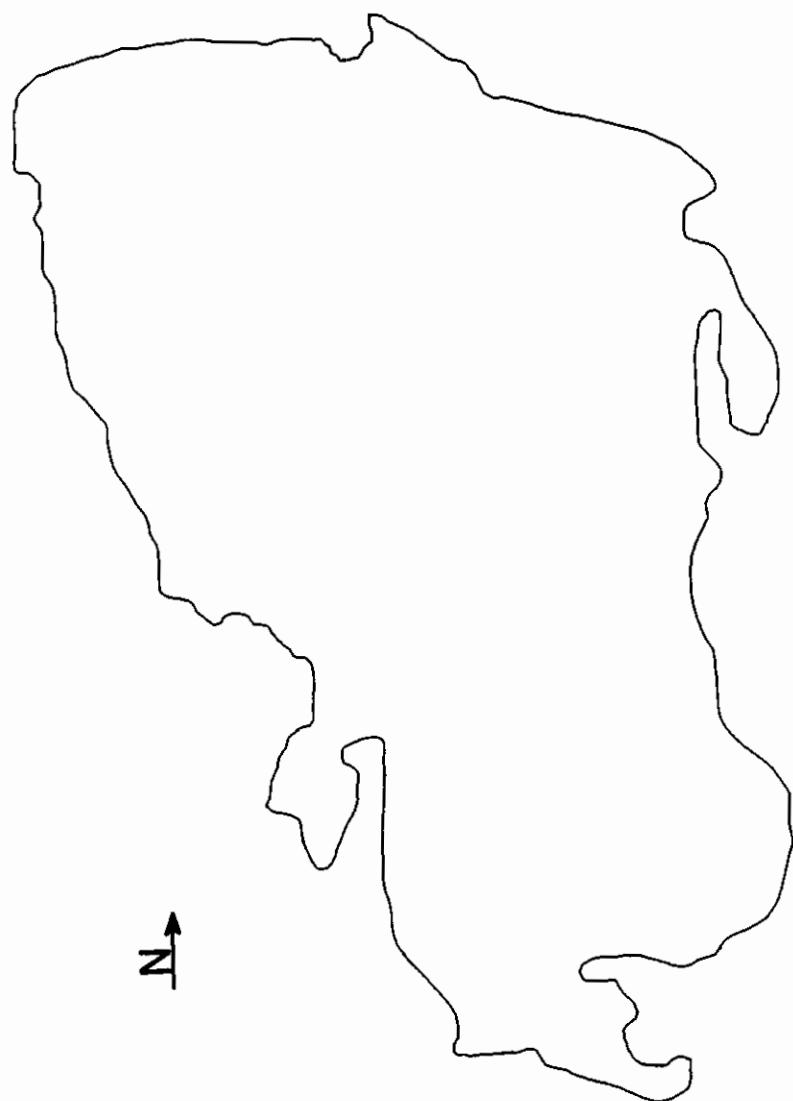
Other Names: M9511
Location: 70°19.13'N 150°09.23'W
USGS Quad Sheet: Harrison Bay B-1: T11N R8E, Sect 8
Habitat: Tundra Lake
Area: 0 acres
Maximum Depth: 0 feet
Active Outlet: No
Spec. Conductance: $\mu\text{S}/\text{cm}$
Calculated Volume: 0.0 million gallons
Permittable Volume: 0.0 million gallons

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|---|------|-------------------|---------|------------------|
| Not sampled, lake drained, no water left. | | | | |

U26.1
(M8102)

70° 19.44'N 149° 56.92'W



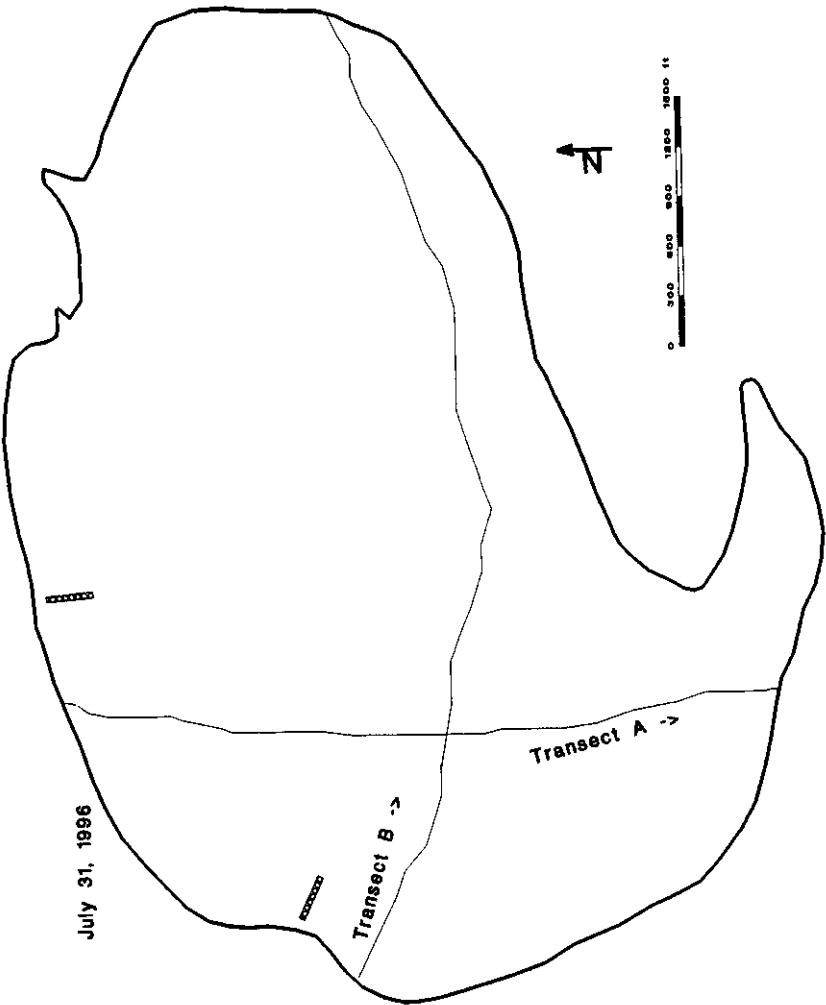
Lake U26.1

Other Names: M8102
Location: 70°19.44'N 149°56.92'W
USGS Quad Sheet: Beechey Point B-5: T11N R9E, Sect 7
Habitat: Tundra
Area: 211 acres
Maximum Depth: ? feet
Active Outlet: No
Calculated Volume: ? million gallons
Permittable Volume: ? million gallons

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|----------|-----------|-------------------|---------|------------------|
| Gill Net | Aug 24 81 | ~24 | None | 0 |

V7.1
(B8532)
70°18.13'N 150°53.75'W



Lake V7.1

Other Names: B8532; L9274
Location: 70°18.13'N 150°53.75'W
USGS Quad Sheet: Harrison Bay B-2: T11N R5E, Sect 16
Habitat: Perched Lake (Frequent Flooding)
Area: 391 acres
Maximum Depth: 8.2 feet
Active Outlet: No
Spec. Conductance: 92 $\mu\text{S}/\text{cm}$ (1985)
pH: 7.5 (1985)
Calculated Volume: 344.4 million gallons
Permittable Volume: 7.6 million gallons

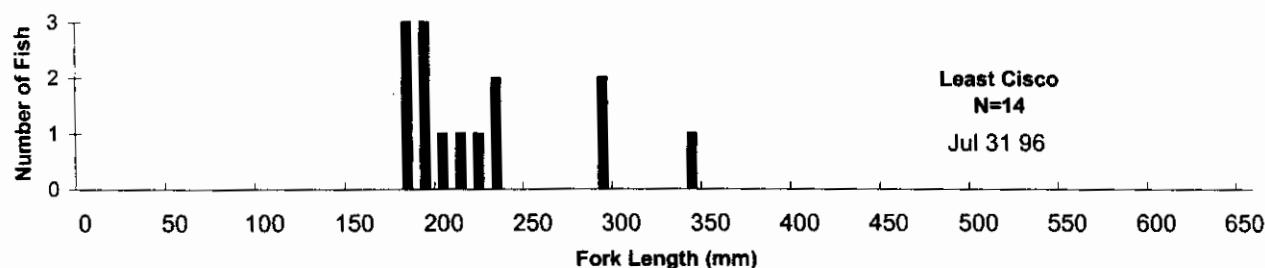
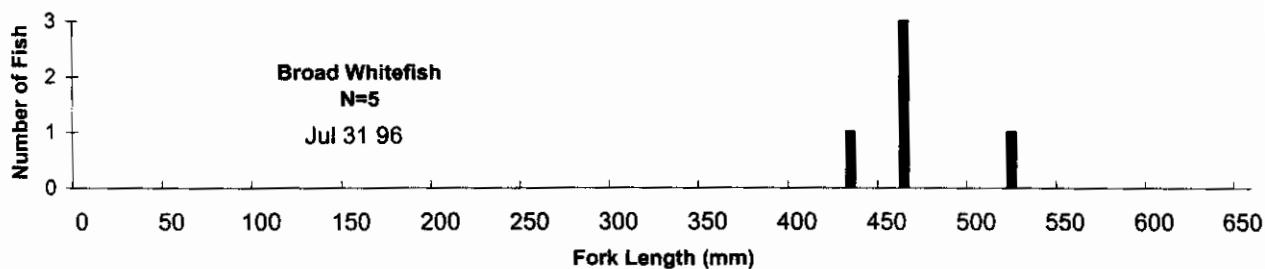
Water Quality:

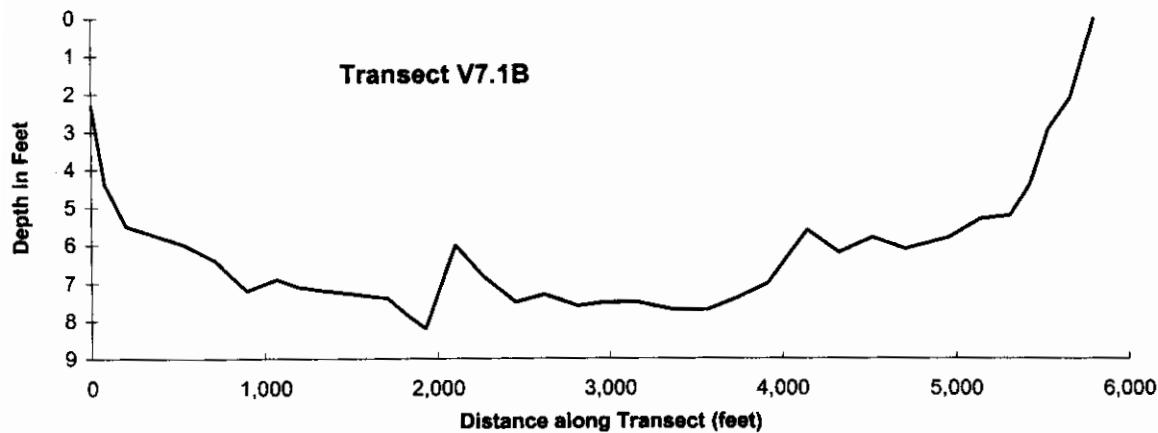
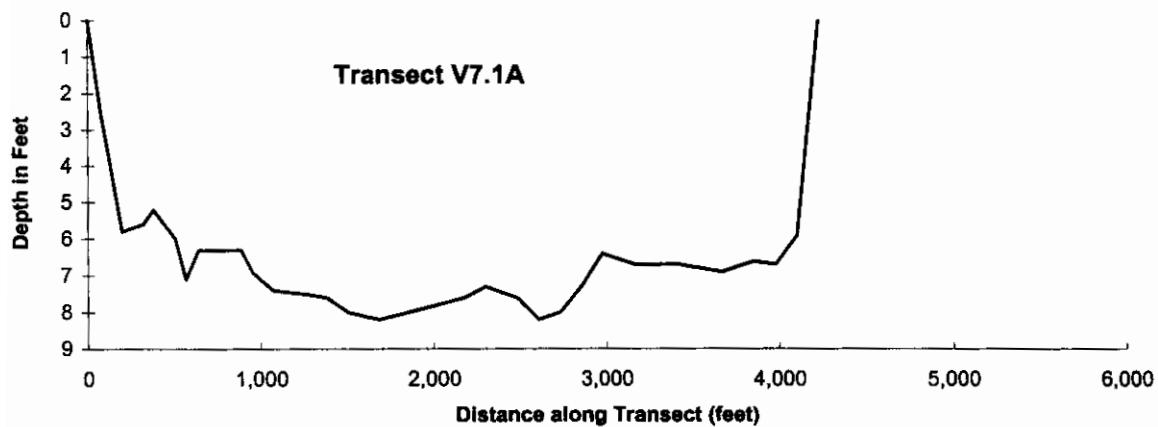
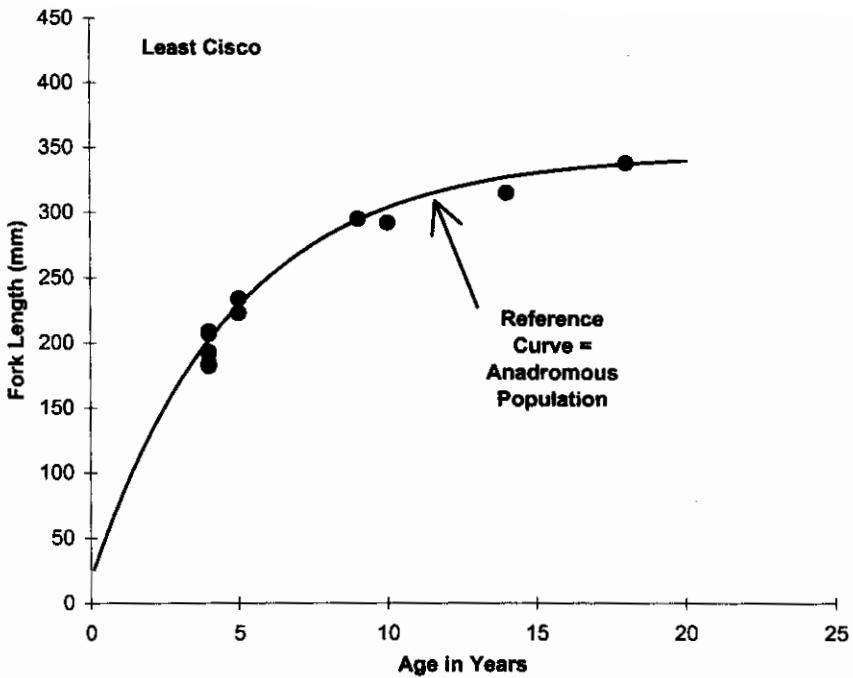
| Year of Test | Chloride (ppm) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------|----------------|---------------|------------------|----------------|--|-------------------------------|---------------------|
| 1985 | | | | | 34 | | Bendock & Burr 1986 |

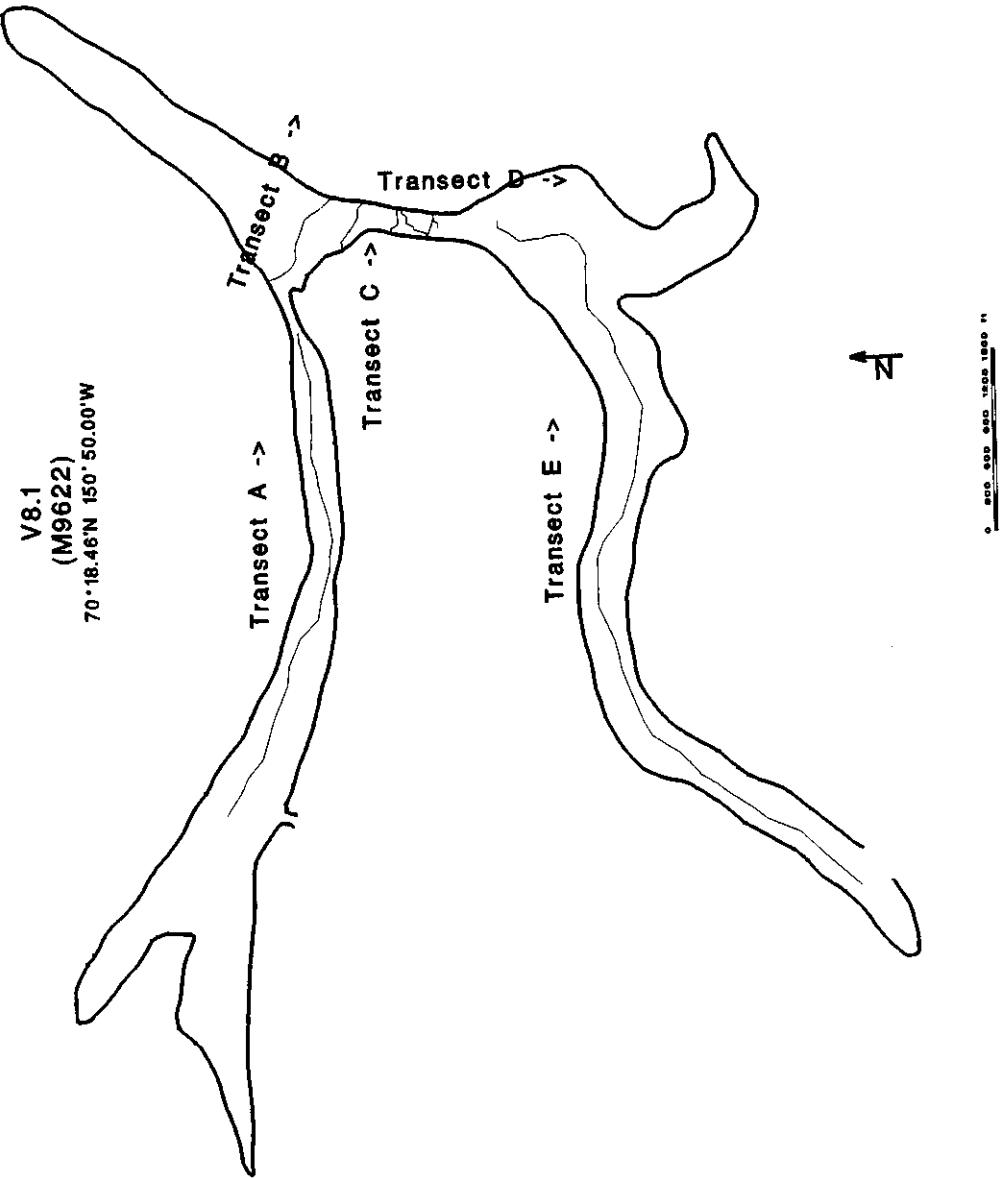
Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|----------|-----------------|----------------|-----------------|---------------|------------------|
| Gill Net | Jul 16-19, 1985 | ~24 | Broad whitefish | ? | |
| | | | Least cisco | ? | |
| Gill Net | Jul 31 96 | 8.0 | Broad whitefish | 6 | 435-525 |
| | | | Least cisco | 14 | 184-342 |

Source of 1985 data: Bendock and Burr 1986







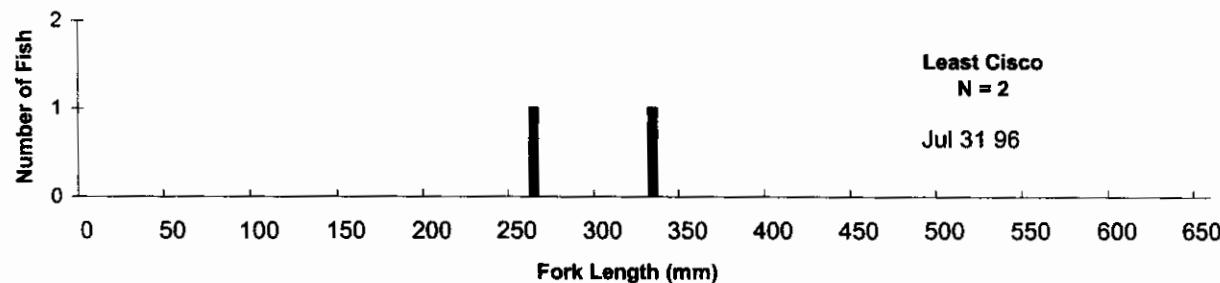
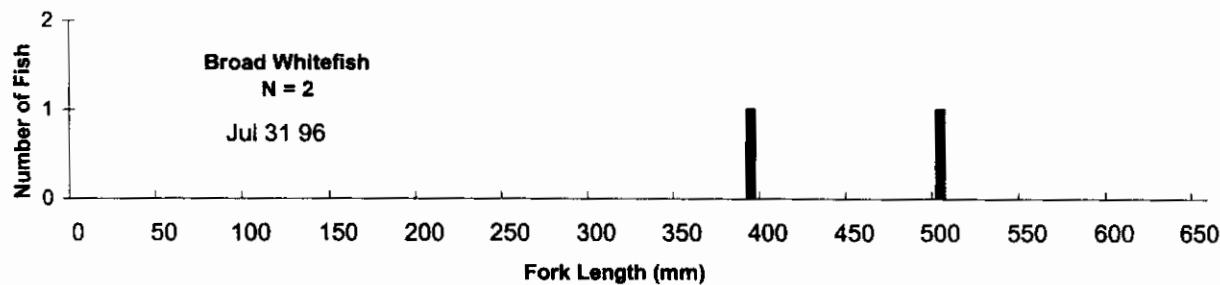
Lake V8.1

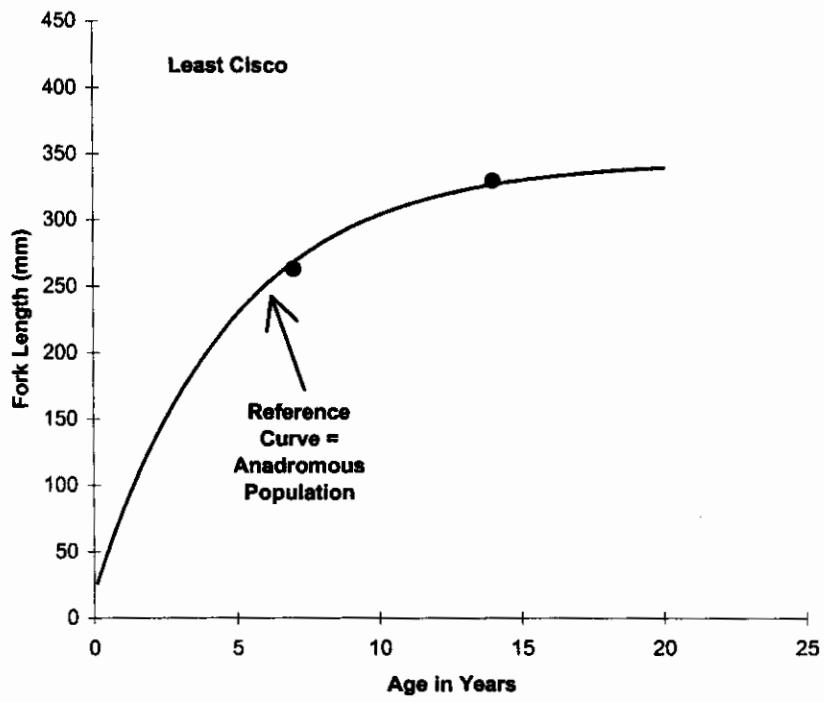
Other Names: M9622
Location: 70°18.46'N 150°50.00'W
USGS Quad Sheet: Harrison Bay B-2: T11N R5E, Sect 15
Habitat: Perched Lake (Frequent Flooding)
Area: 221 acres
Maximum Depth: 20.4 feet
Active Outlet: No
Spec. Conductance: 146 $\mu\text{S}/\text{cm}$
Calculated Volume: 485.6 million gallons
Permittable Volume: 47.8 million gallons

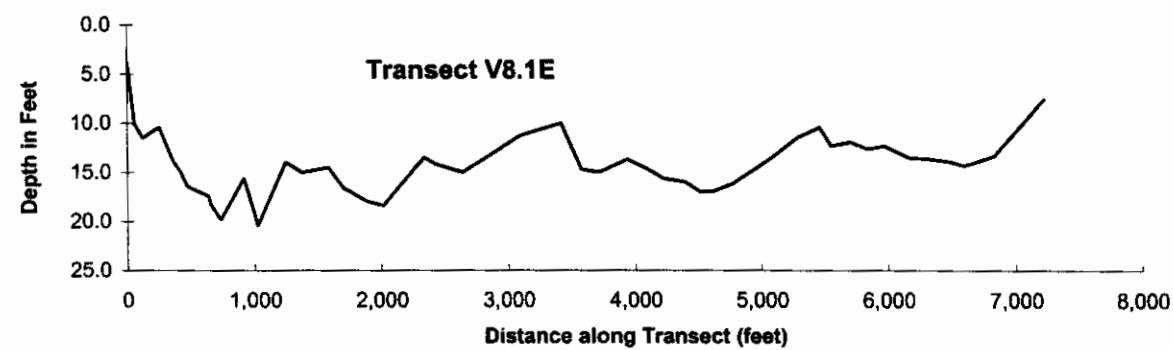
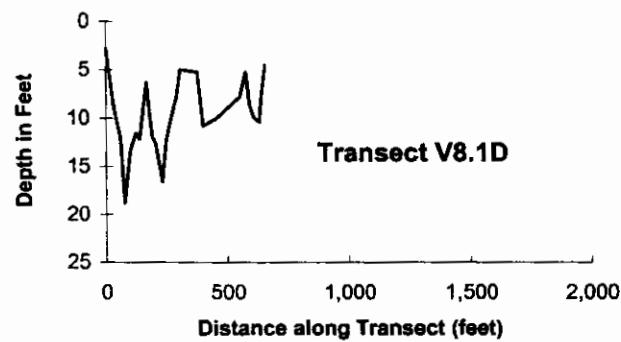
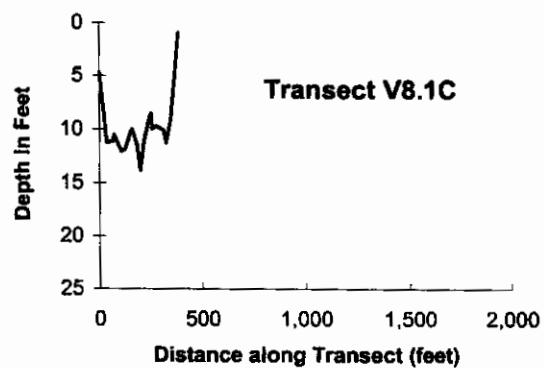
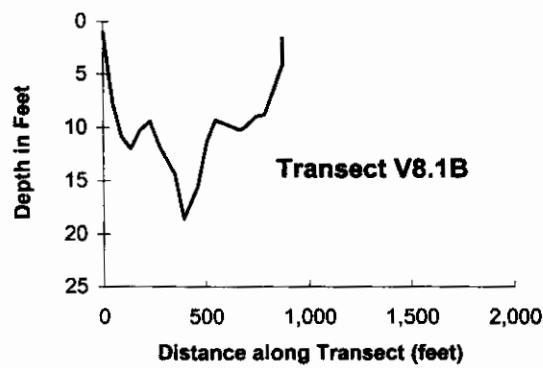
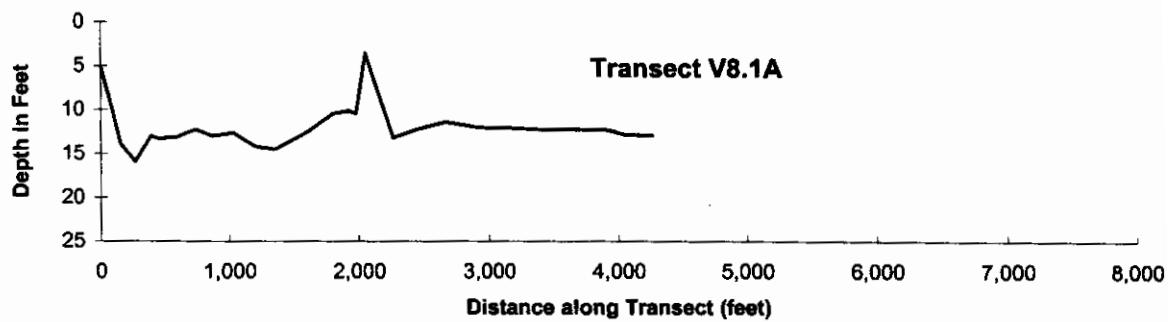
Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|----------|-----------|-------------------|-----------------|---------------|---------------------|
| Gill Net | Jul 31 96 | 5.9 | Broad whitefish | 2 | 397, 500 |
| | | | Least cisco | 2 | 263, 330 |

Lake M9622 connects B8532 and MC7911

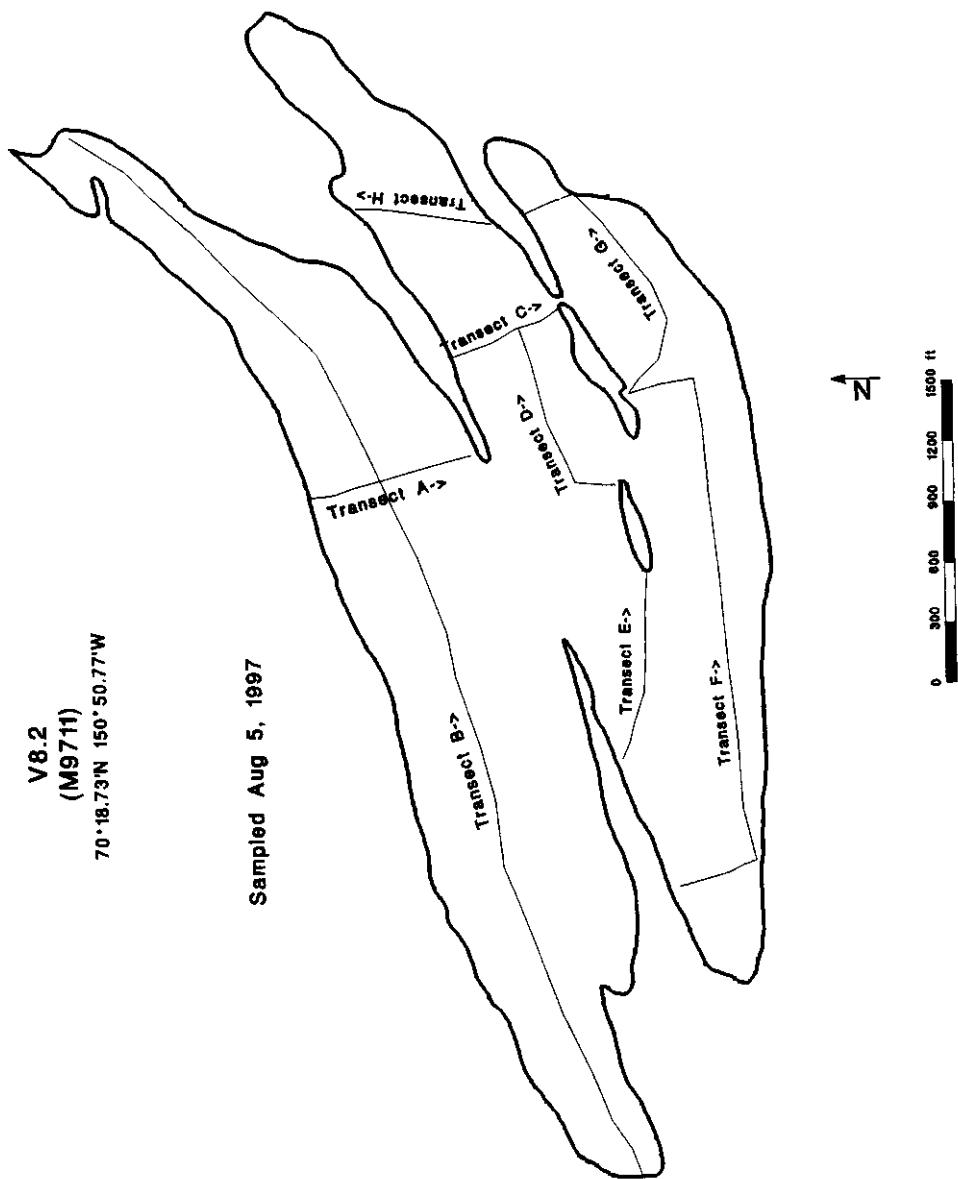






V8.2
(M9711)
70°18.73'N 150°50.77'W

Sampled Aug 5, 1997

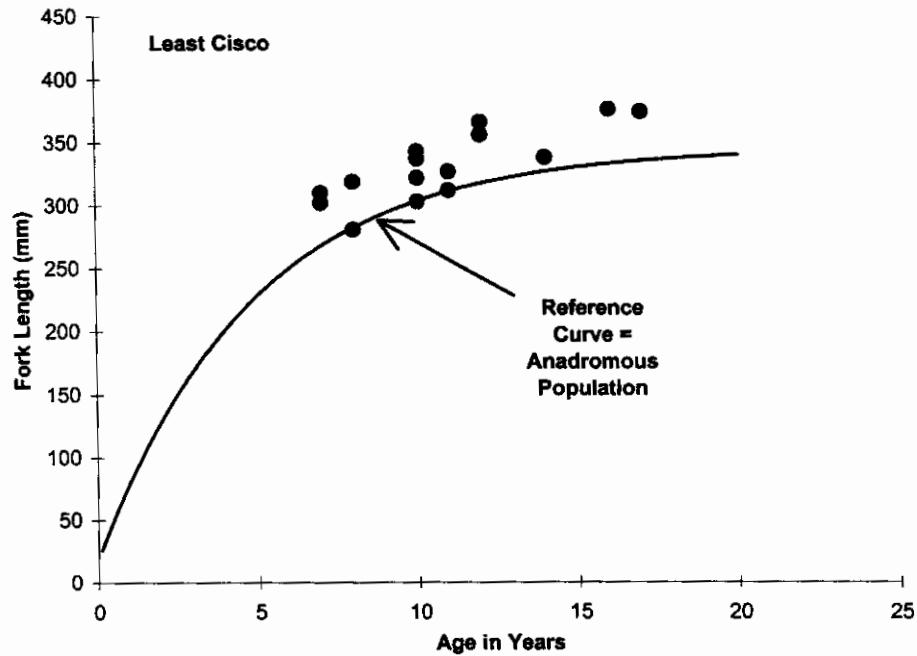
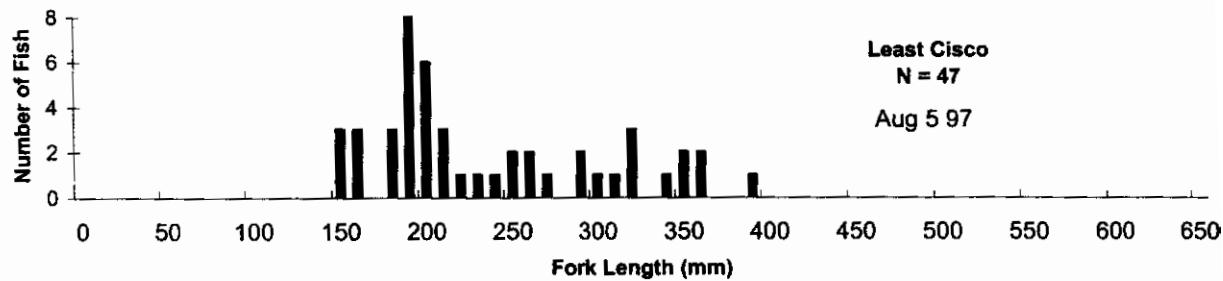


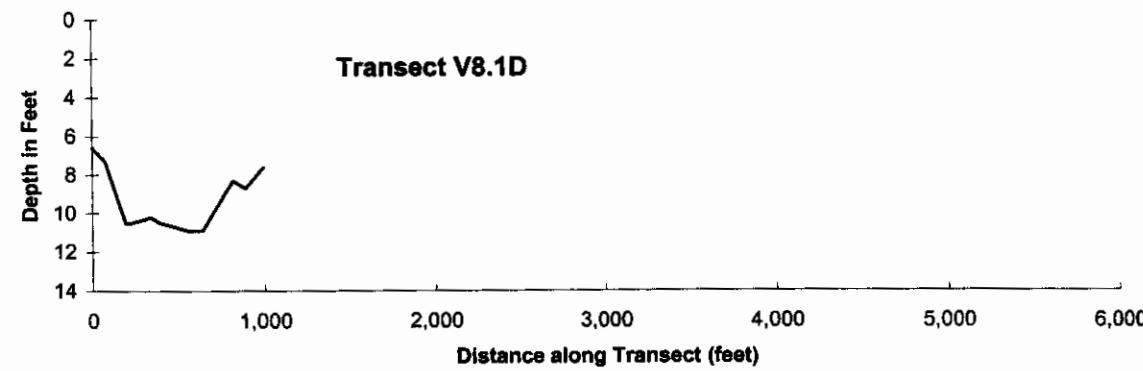
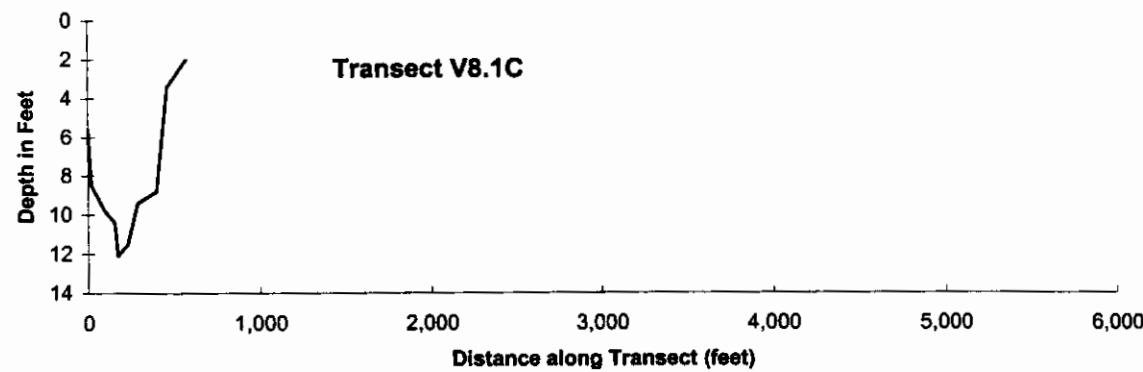
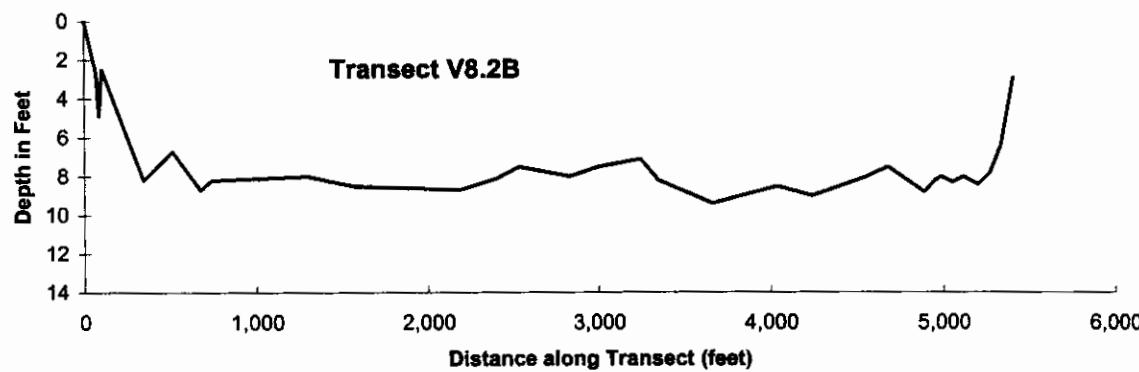
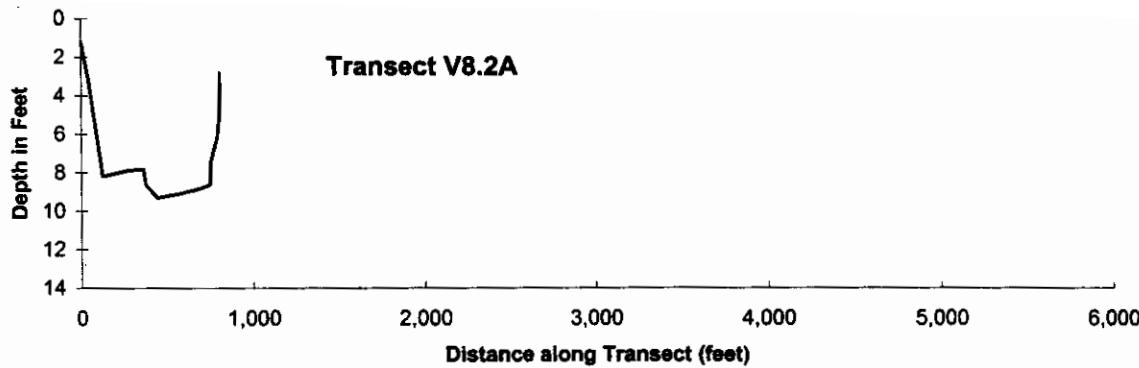
Lake V8.2

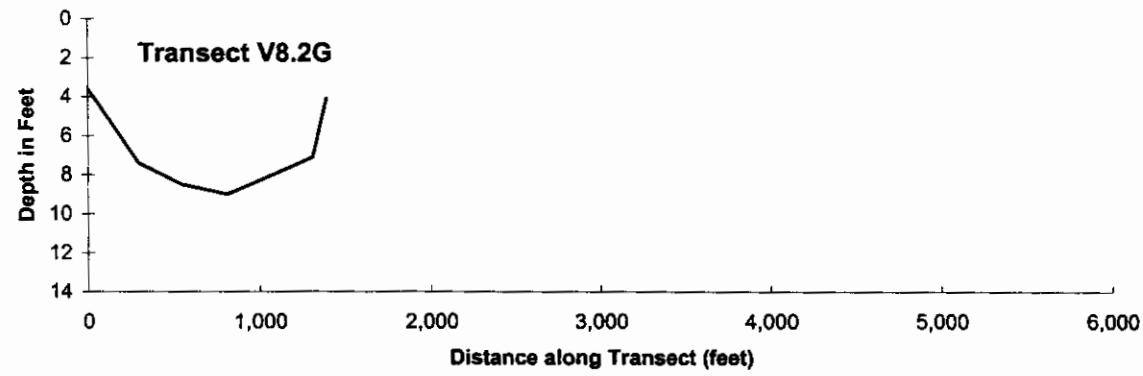
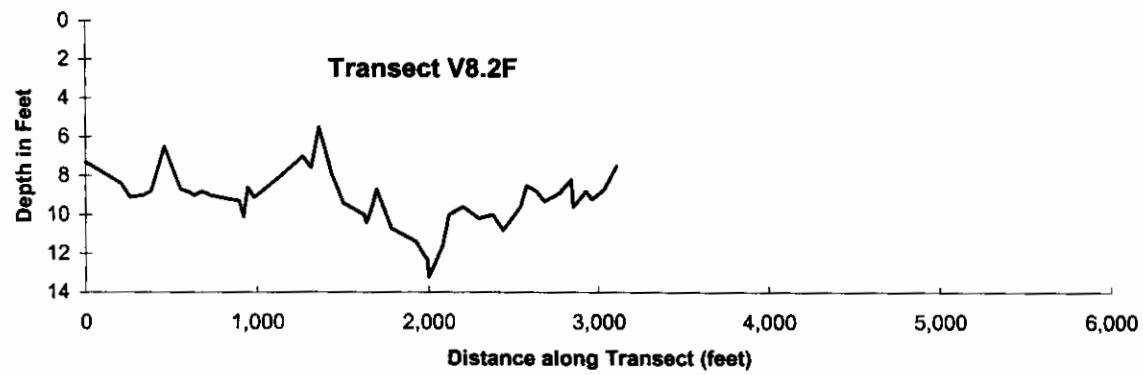
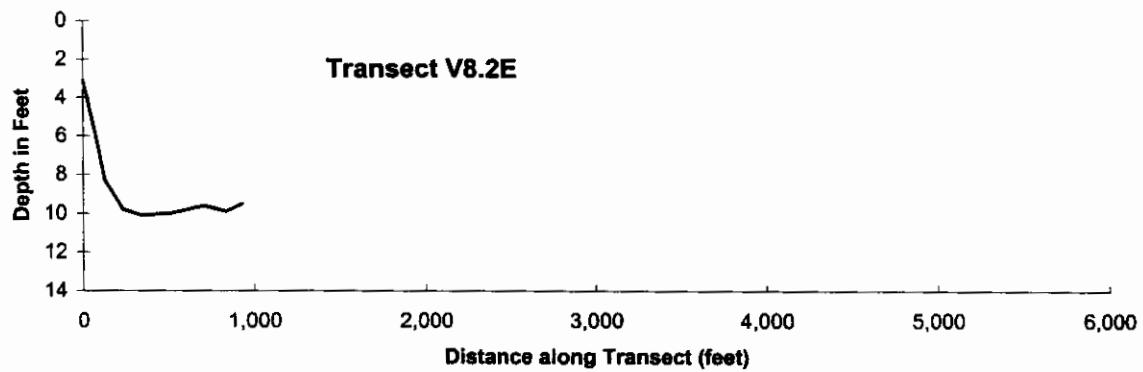
Other Names: M9711
Location: 70°18.73'N 150°50.77'W
USGS Quad Sheet: Harrison Bay B-2: T11N R5E, Sect 15
Habitat: Perched Lake (Infrequent Flooding)
Area: 183 acres
Maximum Depth: 13.2 feet
Active Outlet: No
Spec. Conductance: 132 $\mu\text{S}/\text{cm}$
pH: 8.3
Calculated Volume: 259.0 million gallons
Permittable Volume: 18.2 million gallons

Catch Record:

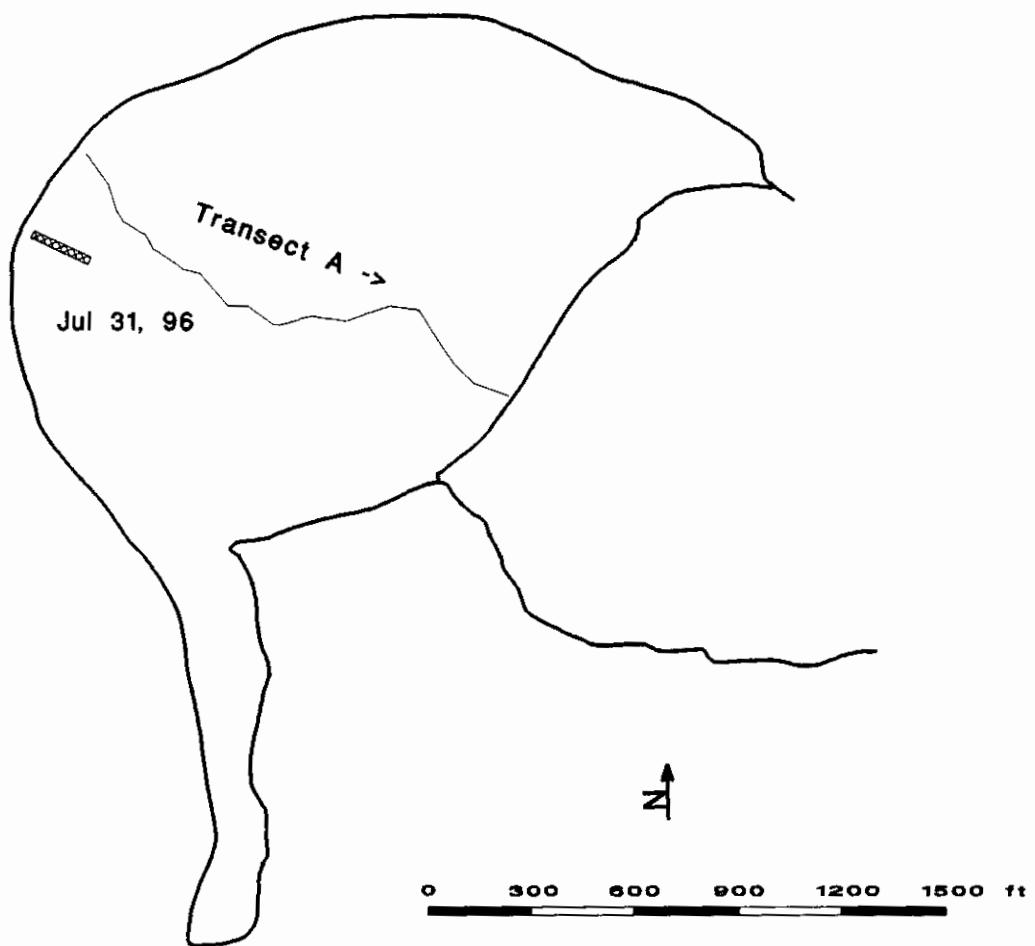
| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|-------------|----------|-------------------|-------------|---------------|---------------------|
| Gillnet | Aug 5 97 | 4.9 | Least cisco | 47 | 152-391 |
| Minnow Trap | Aug 5 97 | 13.4 | None | 0 | |







V8.3
(M9621)
70°18.36'N 150°49.49'W



Lake V8.3

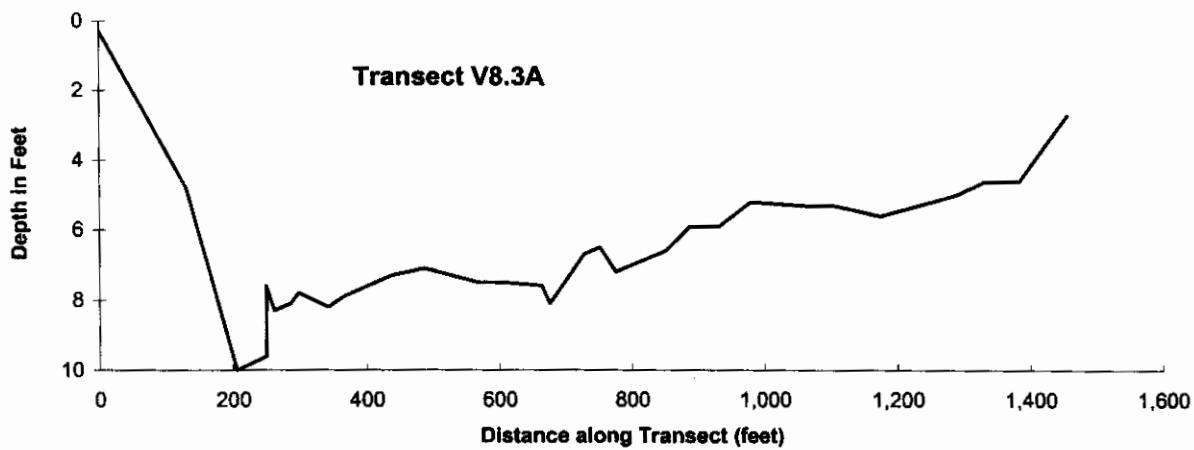
Other Names: M9621
Location: 70°18.36'N 150°49.49'W
USGS Quad Sheet: Harrison Bay B-2: T11N R5E, Sect 15
Habitat: Drainage Lake
Area: 51 acres
Maximum Depth: 10.0 feet
Active Outlet: Yes
Spec. Conductance: 168 $\mu\text{S}/\text{cm}$
Calculated Volume: 54.8 million gallons
Permittable Volume: 2.5 million gallons

Water Quality:

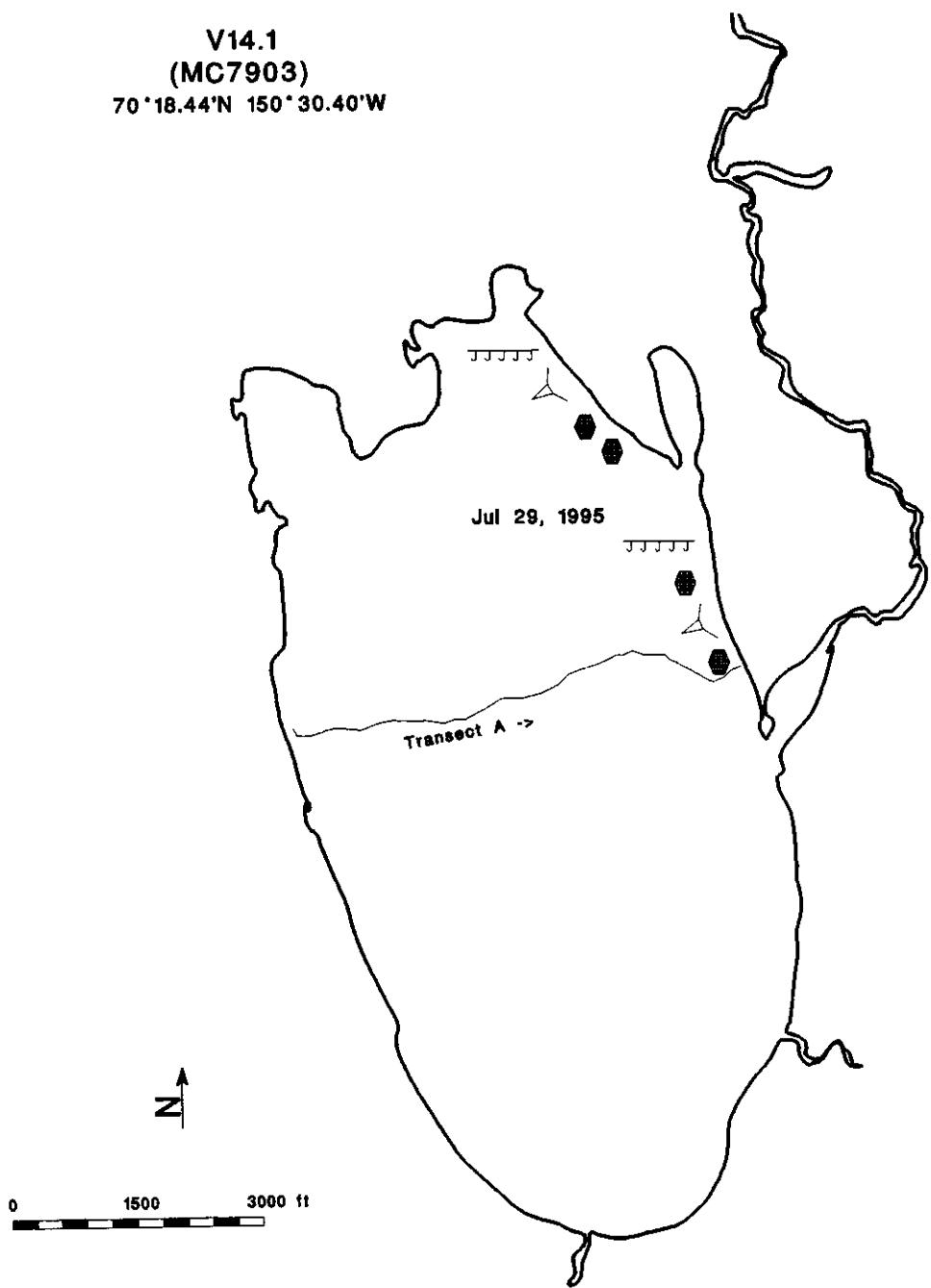
| Year of Test | Chloride (mg/l) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------------|--------------------|------------------|---------------------|-------------------|---|--|------------|
| 1996 | 7.37 | 10.5 | 4.97 | 22.3 | 76.1 | 124 | J. Lobdell |

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|----------|-----------|-------------------|-----------------|------------------|---------------------|
| Gill Net | Jul 31 96 | 6.1 | Least cisco | 1 | 378 |
| | | | Round whitefish | 1 | 138 |



V14.1
(MC7903)
70°18.44'N 150°30.40'W



Lake V14.1

Other Names: MC7903; L9116
Location: 70°18.44'N 150°30.40'W
USGS Quad Sheet: Harrison Bay B-1: T11N R6E, Sect 13
Habitat: Drainage Lake
Area: 1,197 acres
Maximum Depth: 9.3 feet
Active Outlet: No
Spec. Conductance: 241 $\mu\text{S}/\text{cm}$
Calculated Volume: 1,197.2 million gallons
Permittable Volume: 44.4 million gallons

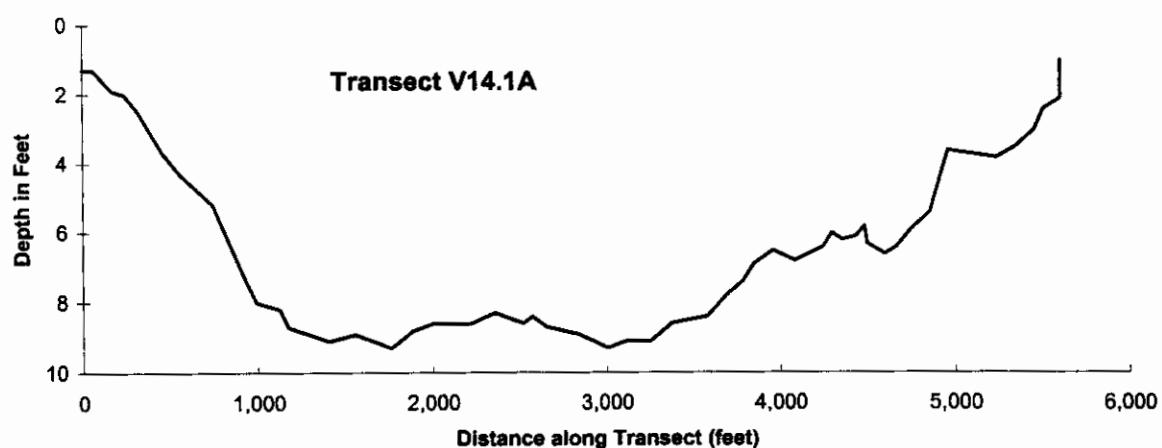
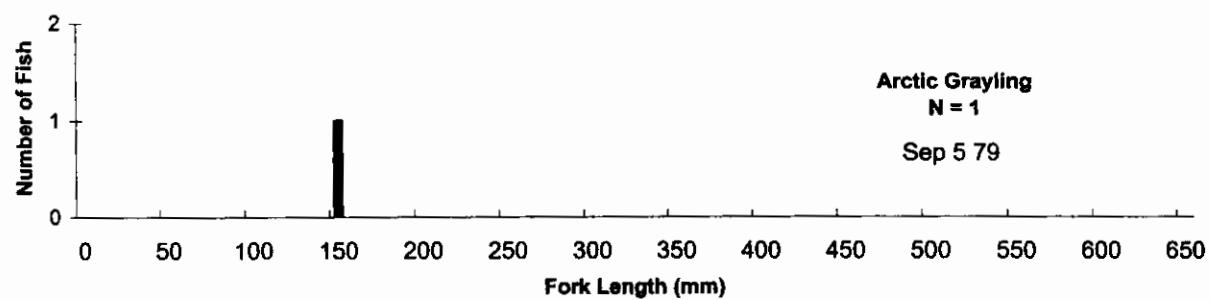
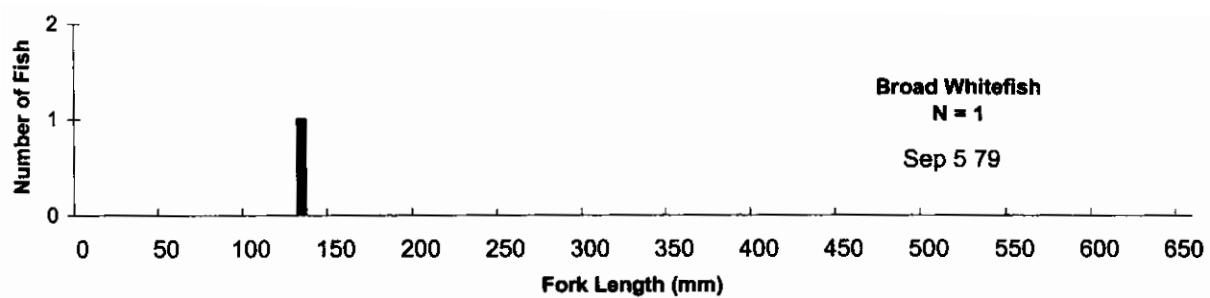
Water Quality:

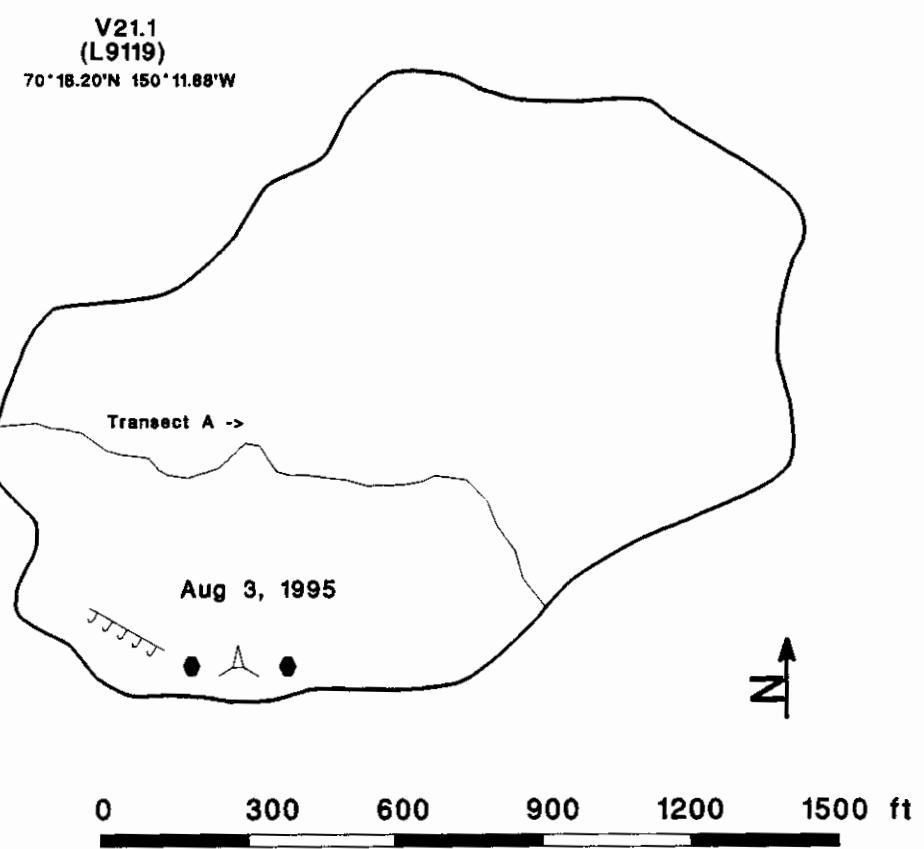
| Year of Test | Chloride (mg/l) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------|-----------------|---------------|------------------|----------------|--|-------------------------------|------------|
| 1991 | 10 | 3.9 | 2 | 25 | 70 | 144 | J. Lobdell |

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|------------------|-----------|----------------|--------------------|---------------|------------------|
| Gill Net | Sep 5 79 | 100.0 | Broad whitefish | 1 | 137 |
| | | | Arctic grayling | 1 | 150 |
| Fyke Net (North) | Jul 29 95 | 21.2 | Alaska blackfish | 4 | |
| | | | 9spine stickleback | 8 | |
| Fyke Net (North) | Jul 29 95 | 21.0 | Alaska blackfish | 5 | |
| | | | 9spine stickleback | 3 | |
| Minnow Traps (N) | Jul 29 95 | 42.9 | None | 0 | |
| Minnow Traps (S) | Jul 29 95 | 42.0 | Alaska blackfish | 3 | |
| Set Line (N) | Jul 29 95 | 21.1 | None | 0 | |
| Set Line (S) | Jul 29 95 | 21.0 | None | 0 | |

Source of 1979 data: McElderry & Craig 1981



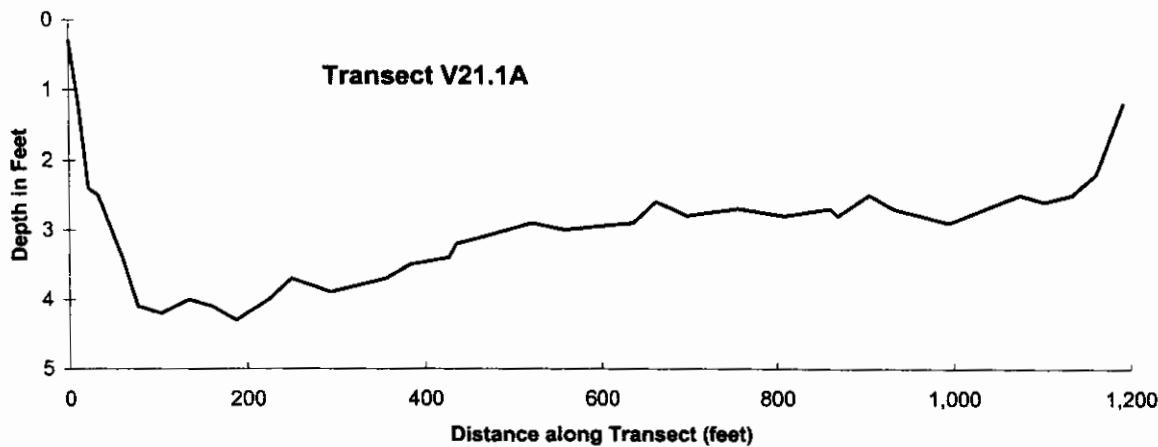
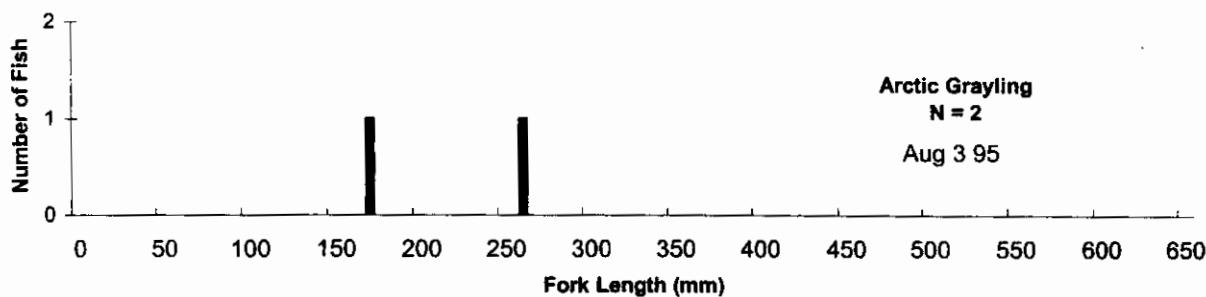


Lake V21.1

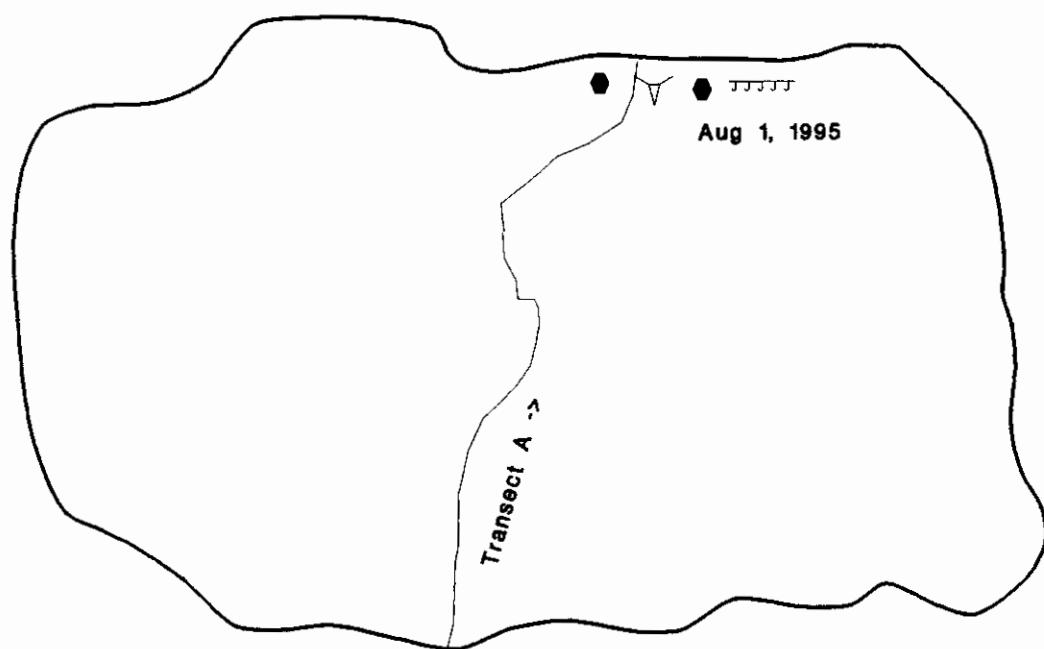
Other Names: L9119
Location: 70°18.20'N 150°11.88'W
USGS Quad Sheet: Harrison Bay B-1: T11N R8E, Sect 18
Habitat: Drainage Lake
Area: 35 acres
Maximum Depth: 4.3 feet
Active Outlet: Yes
Spec. Conductance: 311 $\mu\text{S}/\text{cm}$
Calculated Volume: 15.9 million gallons
Permittable Volume: 0.0 million gallons

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|-------------|----------|-------------------|---------------------------------------|---------------|---------------------|
| Fyke Net | Aug 3 95 | 52.2 | Arctic grayling 9spine stickleback | 2 44 | 176, 267 |
| Minnow Trap | Aug 3 95 | 104.3 | None | 0 | |
| Set Line | Aug 3 95 | 52.0 | None | 0 | |



V21.2
(M9512)
70°18.68'N 150°09.23'W

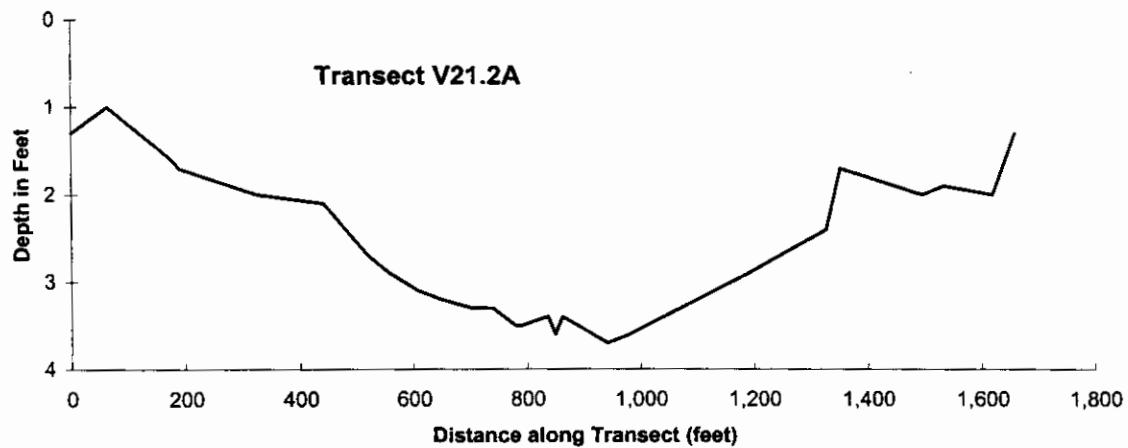


Lake V21.2

Other Names: M9512
Location: 70°18.68'N 150°09.23'W
USGS Quad Sheet: Harrison Bay B-1: T11N R8E, Sect 17
Habitat: Tundra Lake
Area: 90 acres
Maximum Depth: 3.7 feet
Active Outlet: No
Spec. Conductance: 342 $\mu\text{S}/\text{cm}$
Calculated Volume: 35.8 million gallons
Permittable Volume: No fish concern

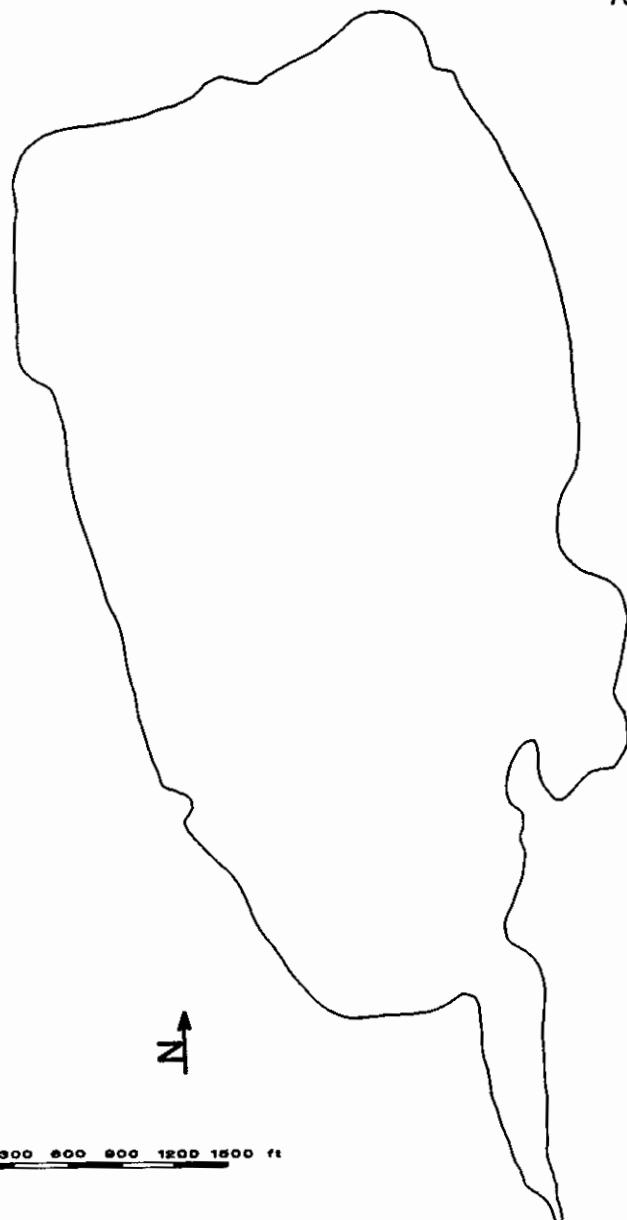
Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|-------------|----------|-------------------|--------------------|------------------|
| Fyke Net | Aug 1 95 | 52.2 | 9spine stickleback | 4 |
| Minnow Trap | Aug 1 95 | 103.8 | None | 0 |
| Set Line | Aug 1 95 | 52.0 | None | 0 |



V29.1
(M8105)

70° 18.27'N 149° 45.15'W



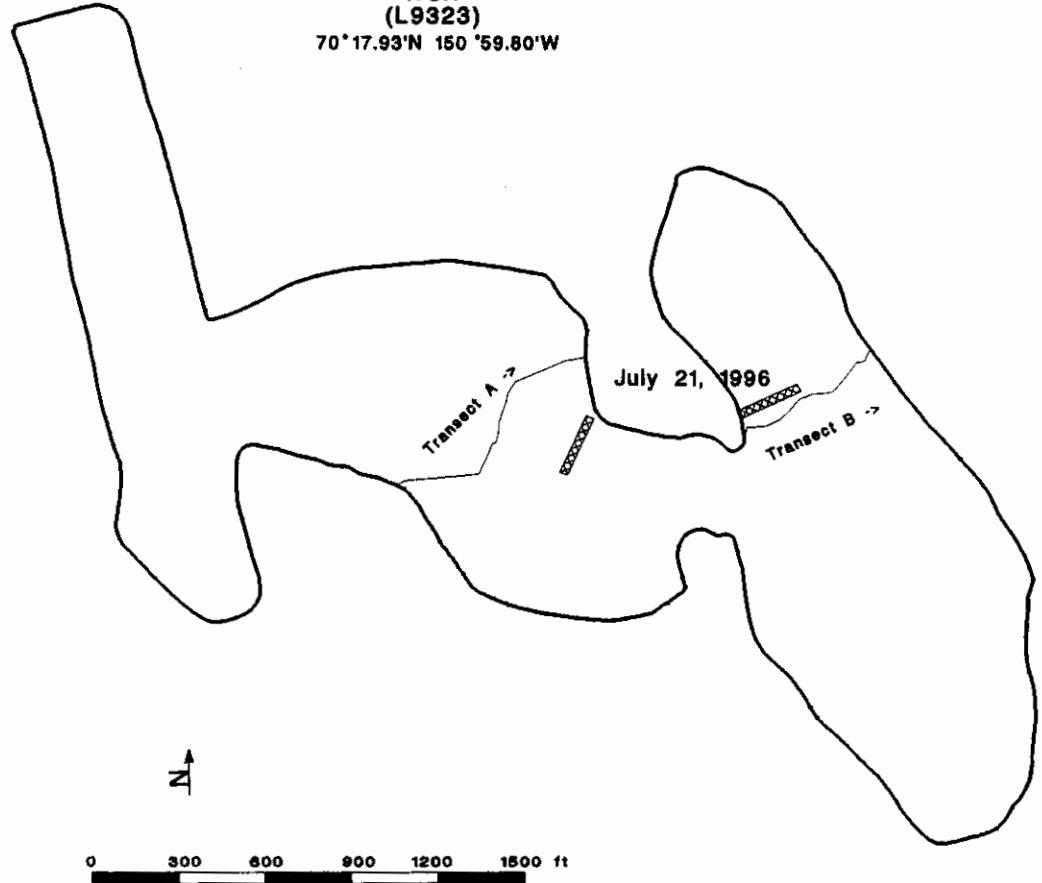
Lake V29.1

Other Names: M8105
Location: 70°18.27'N 149°45.15'W
USGS Quad Sheet: Beechey Point B-5: T11N R9E, Sect 13
Habitat: Tundra
Area: 310 acres
Maximum Depth: ? feet
Active Outlet: No
Calculated Volume: ? million gallons
Permittable Volume: ? million gallons

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|----------|-----------|-------------------|---------|------------------|
| Gill Net | Aug 24 81 | ~24 | None | 0 |

W5.1
(L9323)
70°17.93'N 150°59.80'W



Lake W5.1

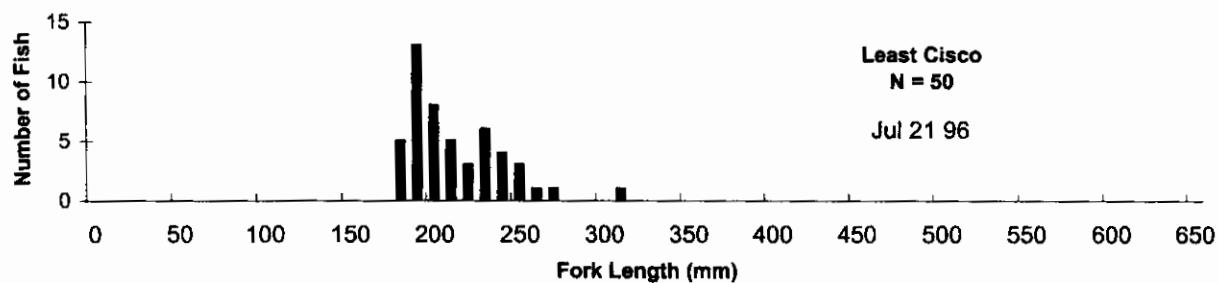
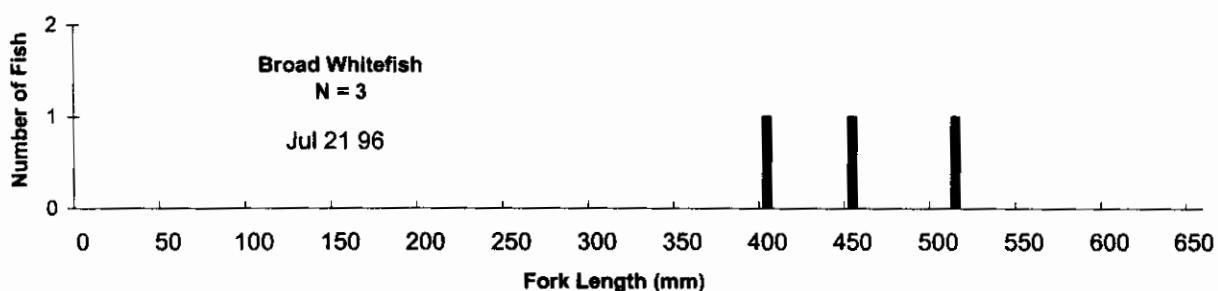
Other Names: L9323
Location: 70°17.93'N 150°59.80'W
USGS Quad Sheet: Harrison Bay B-2: T11N R4E, Sect 24
Habitat: Perched Lake (Infrequent Flooding)
Area: 84 acres
Maximum Depth: 11.0 feet
Active Outlet: No
Spec. Conductance: 74 $\mu\text{S}/\text{cm}$
Calculated Volume: 99.4 million gallons
Permittable Volume: 5.4 million gallons

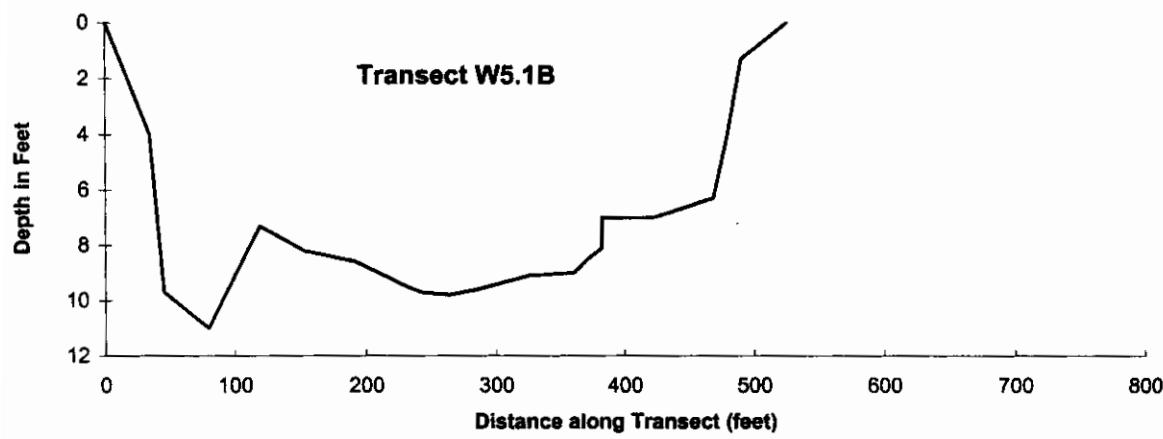
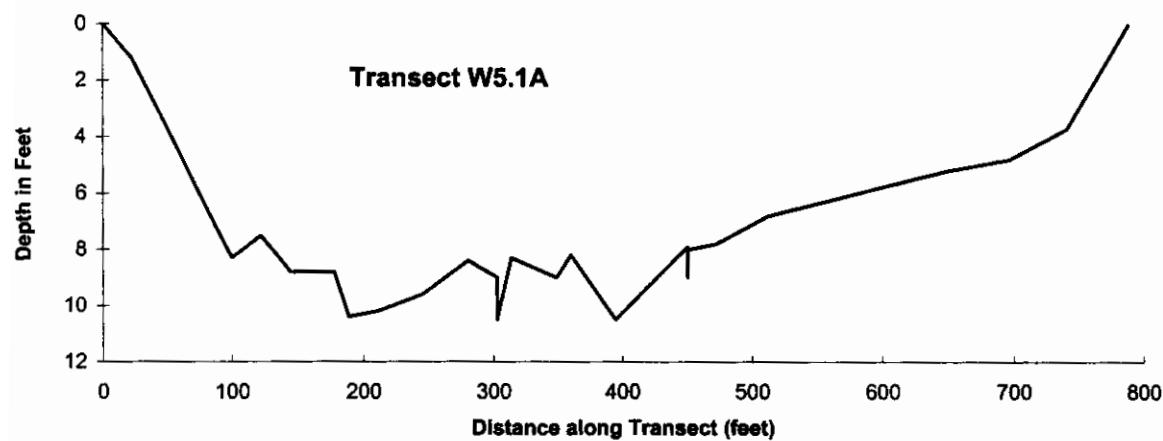
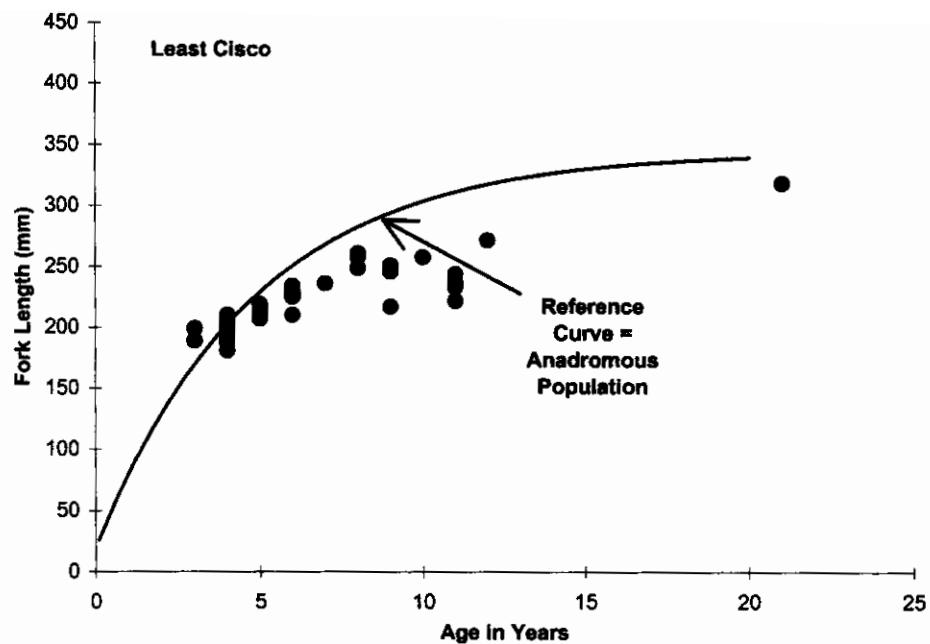
Water Quality:

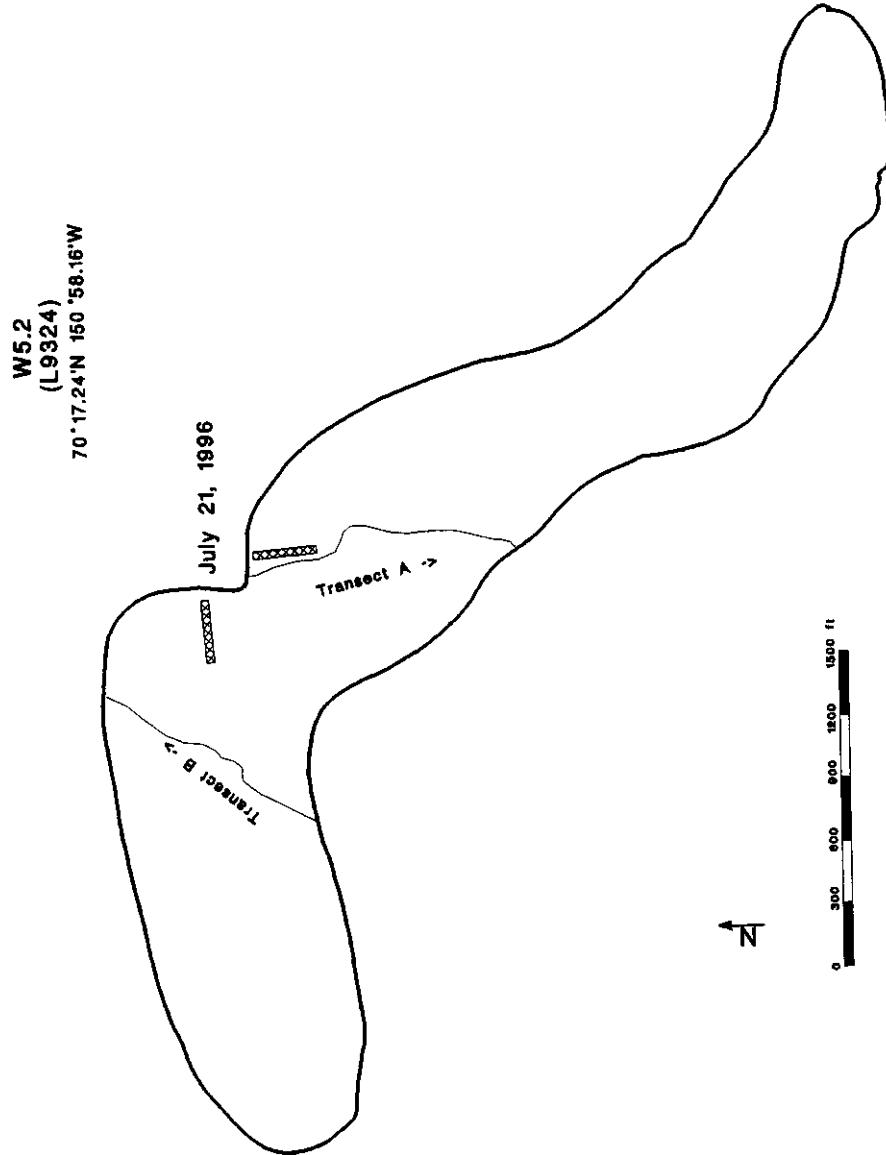
| Year of Test | Chloride (mg/l) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------------|--------------------|------------------|---------------------|-------------------|---|--|------------|
| 1993 | 4 | 2.8 | 1.5 | 4.3 | 17 | 53 | J. Lobdell |

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|----------|-----------|-------------------|-----------------|------------------|---------------------|
| Gill Net | Jul 21 96 | 5.6 | Broad whitefish | 3 | 400-512 |
| | | | Round whitefish | 1 | 217 |
| | | | Least cisco | 50 | 181-319 |







2-328

Lake W5.2

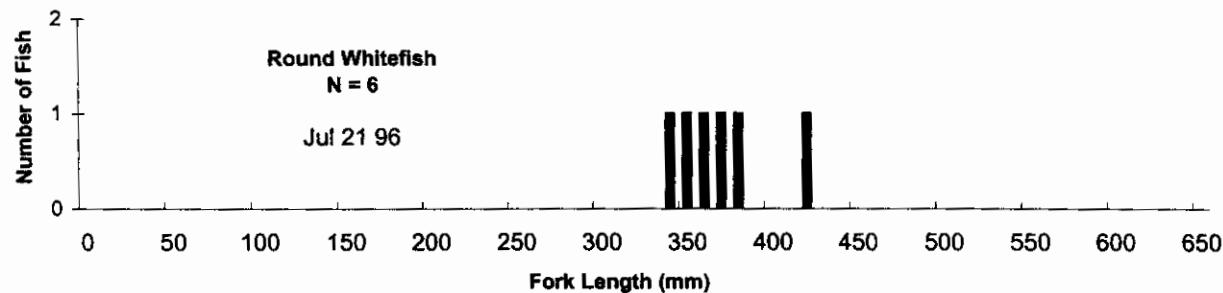
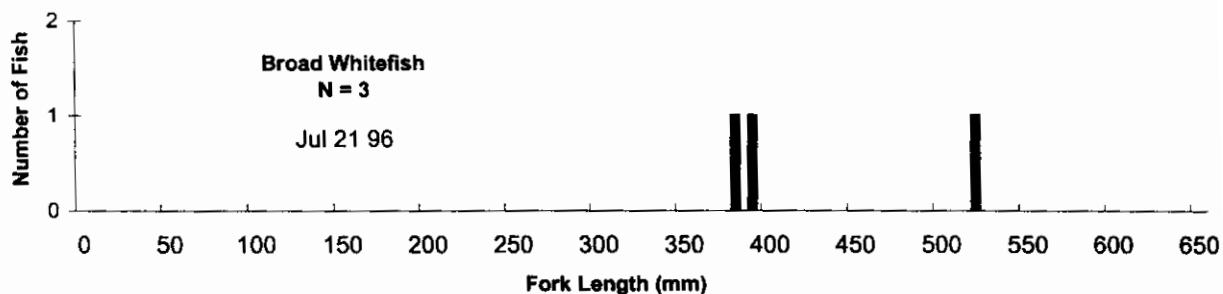
Other Names: L9324
Location: 70°17.24'N 150°58.16'W
USGS Quad Sheet: Harrison Bay B-2: T11N R5E, Sect 19, 30
Habitat: Perched Lake (Frequent Flooding)
Area: 126 acres
Maximum Depth: 11.2 feet
Active Outlet: Yes
Spec. Conductance: 55 $\mu\text{S}/\text{cm}$
Calculated Volume: 151.9 million gallons
Permittable Volume: 8.5 million gallons

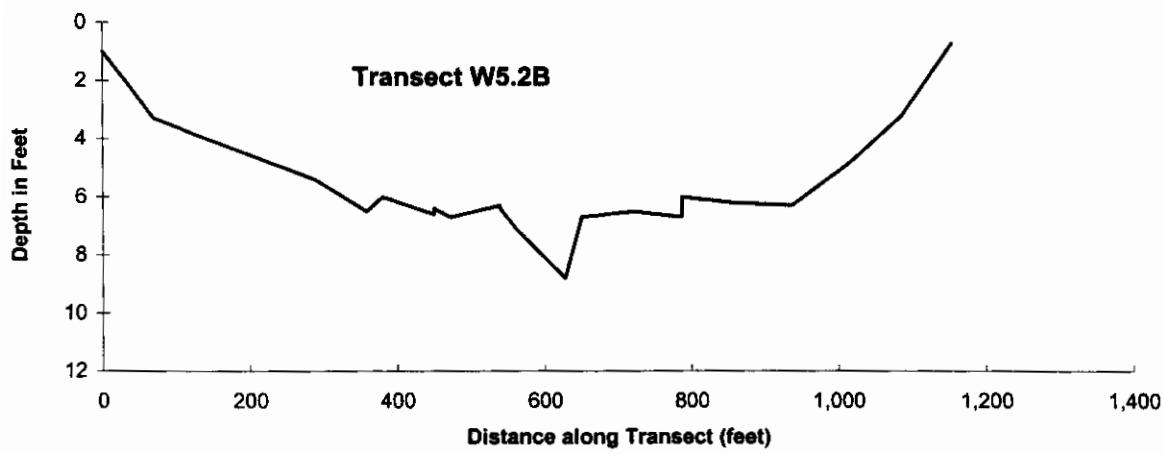
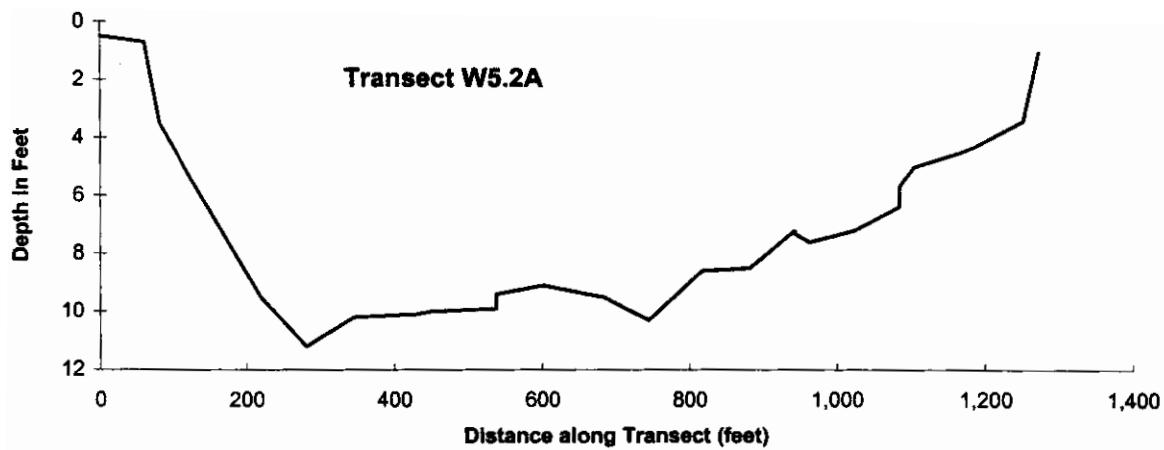
Water Quality:

| Year of Test | Chloride (mg/l) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------|-----------------|---------------|------------------|----------------|--|-------------------------------|------------|
| 1993 | 2 | 1.7 | 1.5 | 5.3 | 19 | 95 | J. Lobdell |

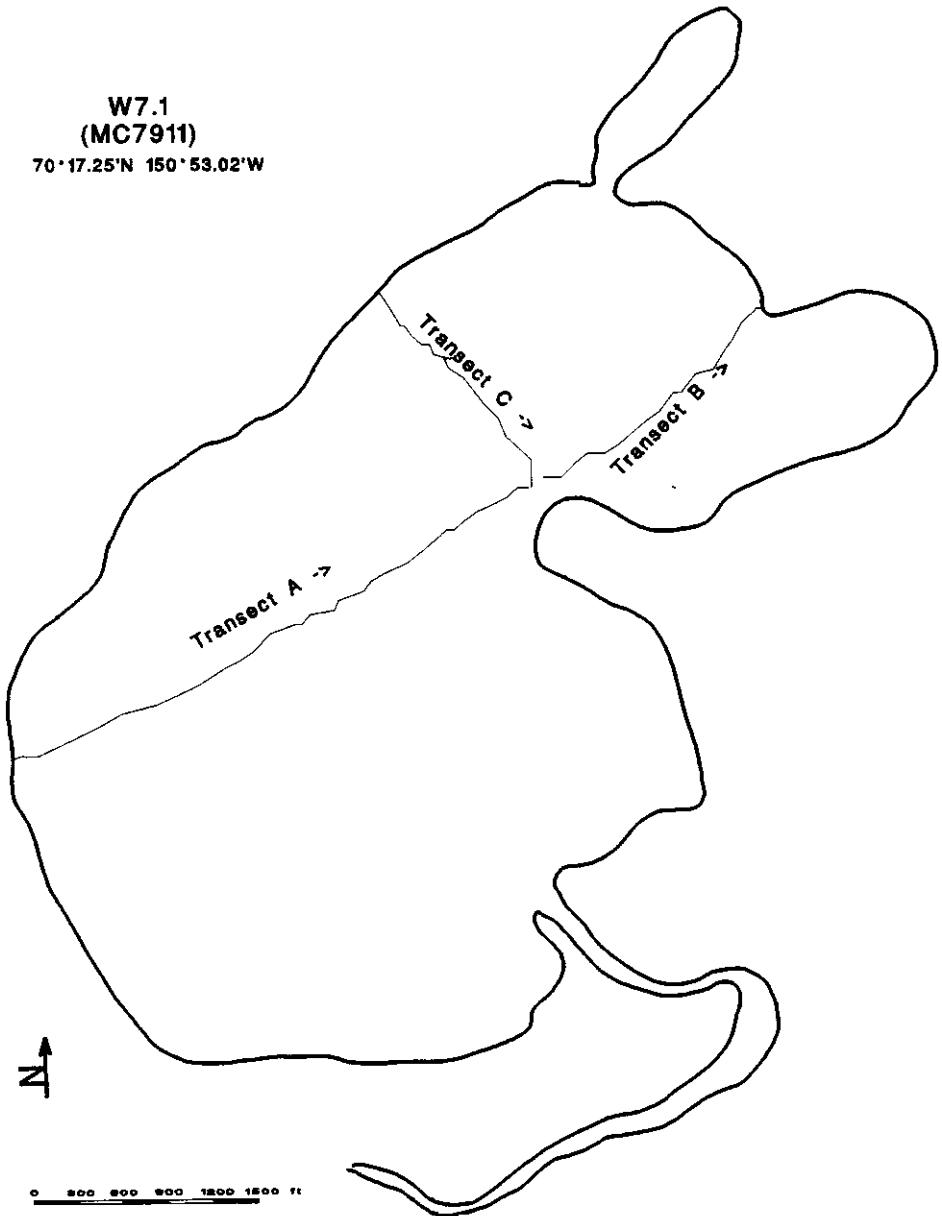
Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|----------|-----------|----------------|-----------------|---------------|------------------|
| Gill Net | Jul 21 96 | 11.5 | Broad whitefish | 3 | 382-528 |
| | | | Round whitefish | 6 | 340-429 |





W7.1
(MC7911)
70°17.25'N 150°53.02'W



Lake W7.1

Other Names: MC7911; L9273
Location: 70°17.25'N 150°53.02'W
USGS Quad Sheet: Harrison Bay B-2; T11N R5E, Sect 21
Habitat: Perched Lake (Frequent Flooding)
Area: 479 acres
Maximum Depth: 19.3 feet
Active Outlet: No
Spec. Conductance: $\mu\text{S}/\text{cm}$
Calculated Volume: 994.4 million gallons
Permittable Volume: 95.1 million gallons

Water Quality:

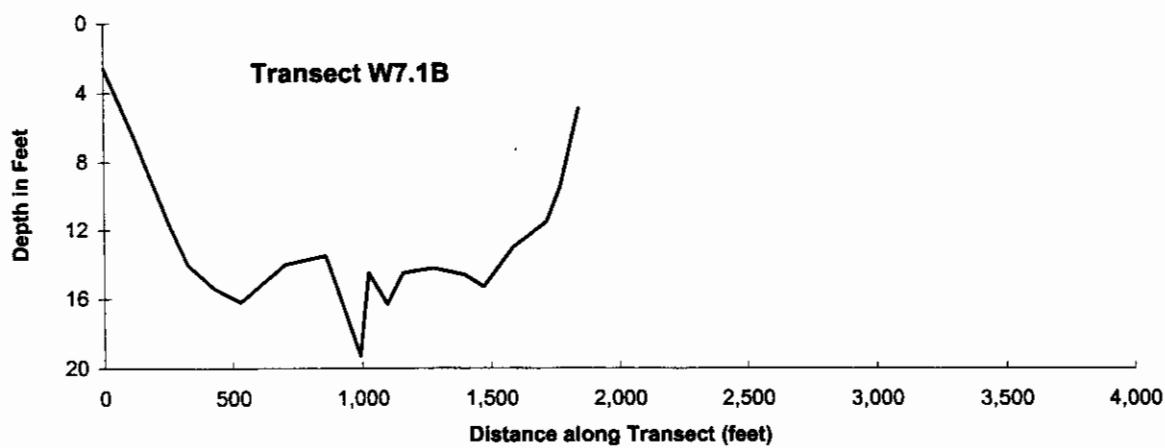
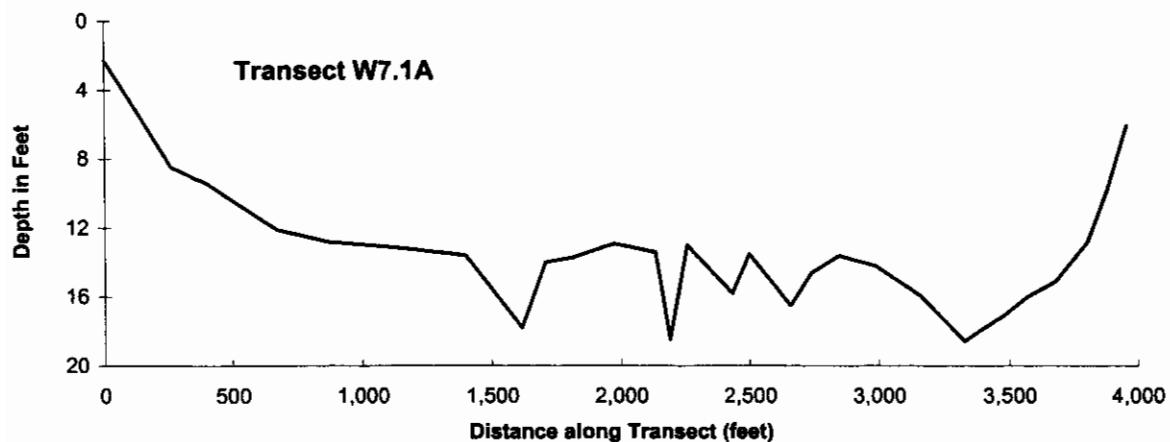
| Year of Test | Chloride (mg/l) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------------|--------------------|------------------|---------------------|-------------------|---|--|------------|
| 1992 | 4.1 | 2.5 | 3.7 | 9.8 | 40 | 73 | J. Lobdell |

Catch Record:

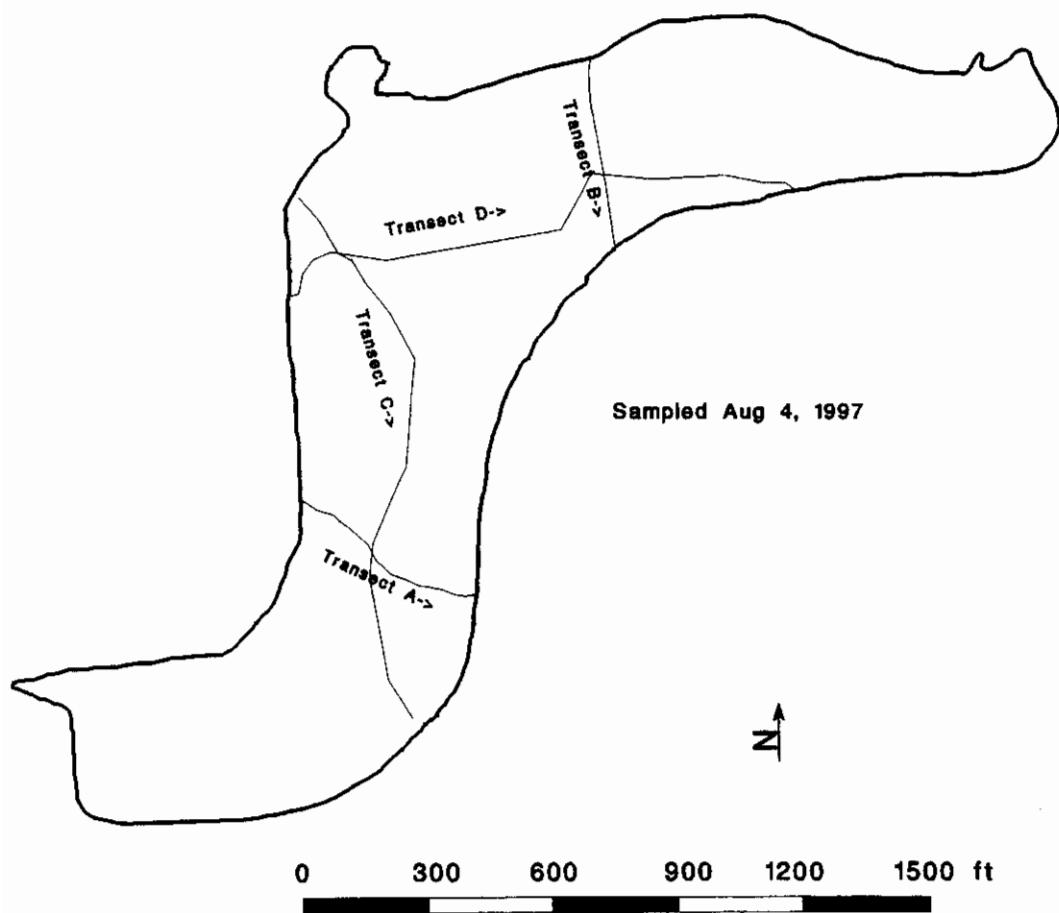
| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|----------|----------|-------------------|--------------------|------------------|---------------------|
| Gill Net | Sep 7 79 | 22.5 | Broad whitefish | 5 | 130-555 |
| | | | Humpback whitefish | 1 | 460 |
| | | | Least cisco | 217 | 105-330 |
| | | | Round whitefish | 3 | 225-405 |

Source of 1979 data: McElderry & Craig 1981

Bathymetry Measurements taken Aug 2, 1996



W8.1
(M9710)
70°17.48'N 150°50.55'W

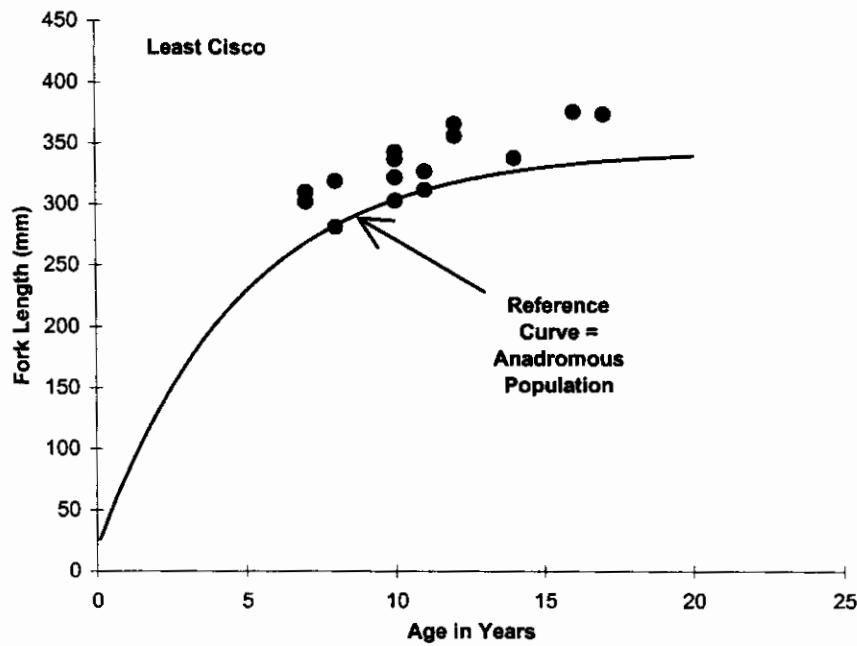
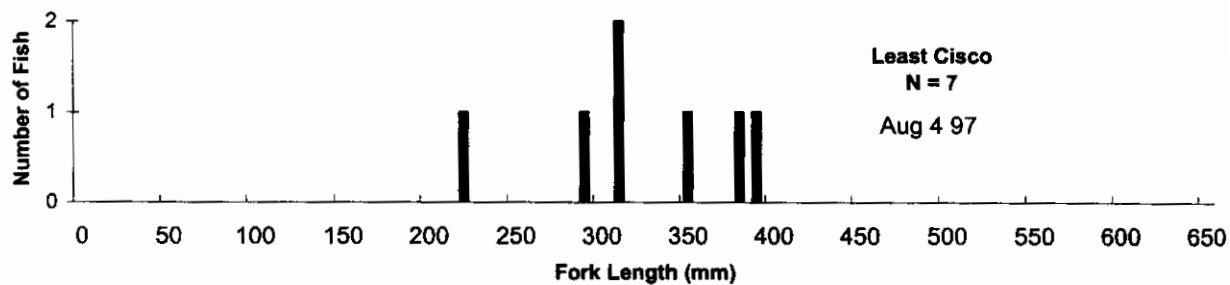


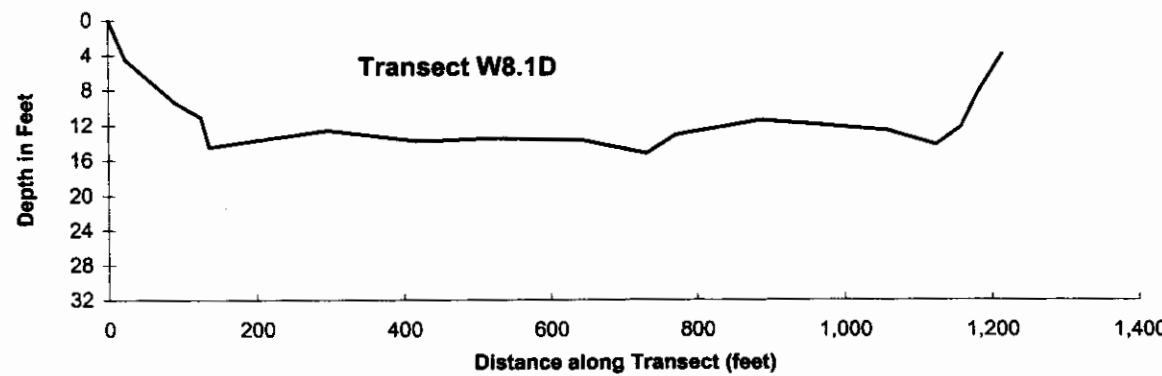
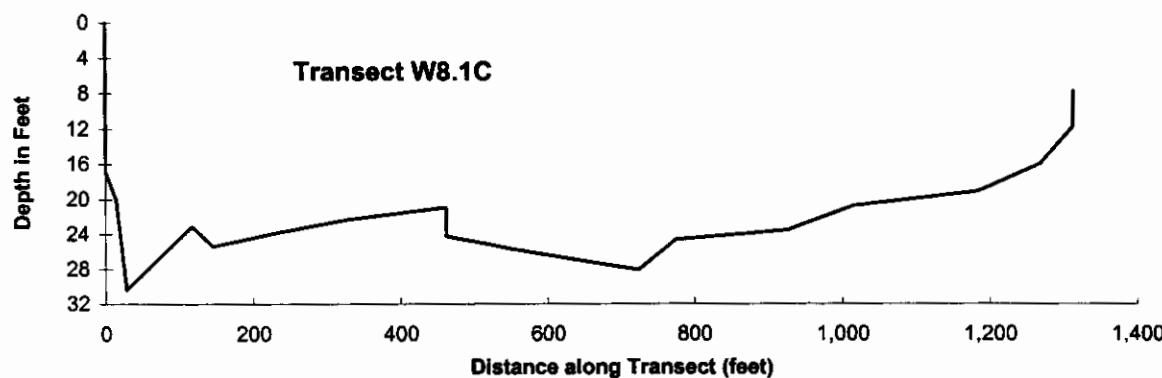
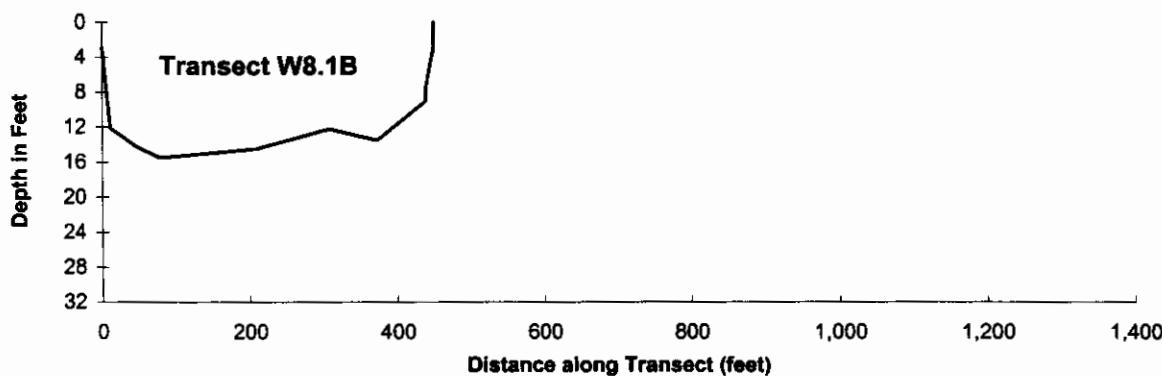
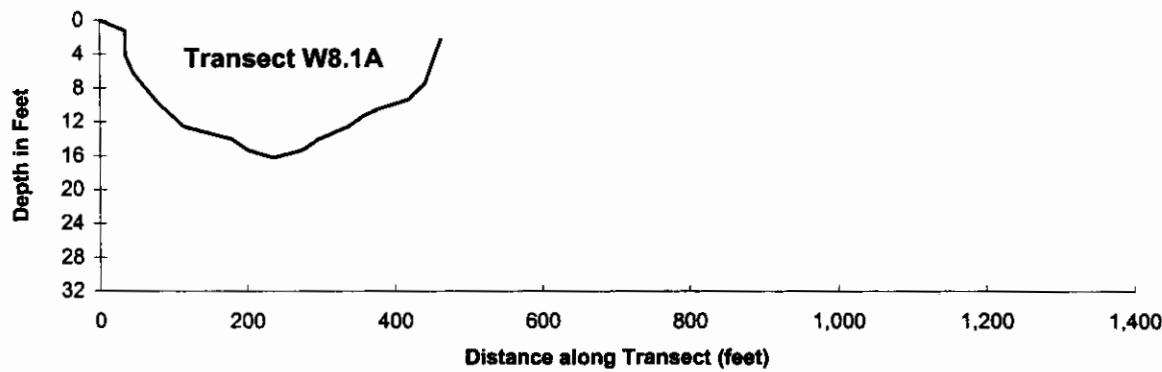
Lake W8.1

Other Names: M9710
Location: 70°17.48'N 150°50.55'W
USGS Quad Sheet: Harrison Bay B-2: T11N R5E, Sect 22
Habitat: Perched Lake (Infrequent Flooding)
Area: 38 acres
Maximum Depth: 30.4 feet
Active Outlet: No
Spec. Conductance: 176 $\mu\text{S}/\text{cm}$
Calculated Volume: 125.2 million gallons
Permittable Volume: 14.5 million gallons

Catch Record:

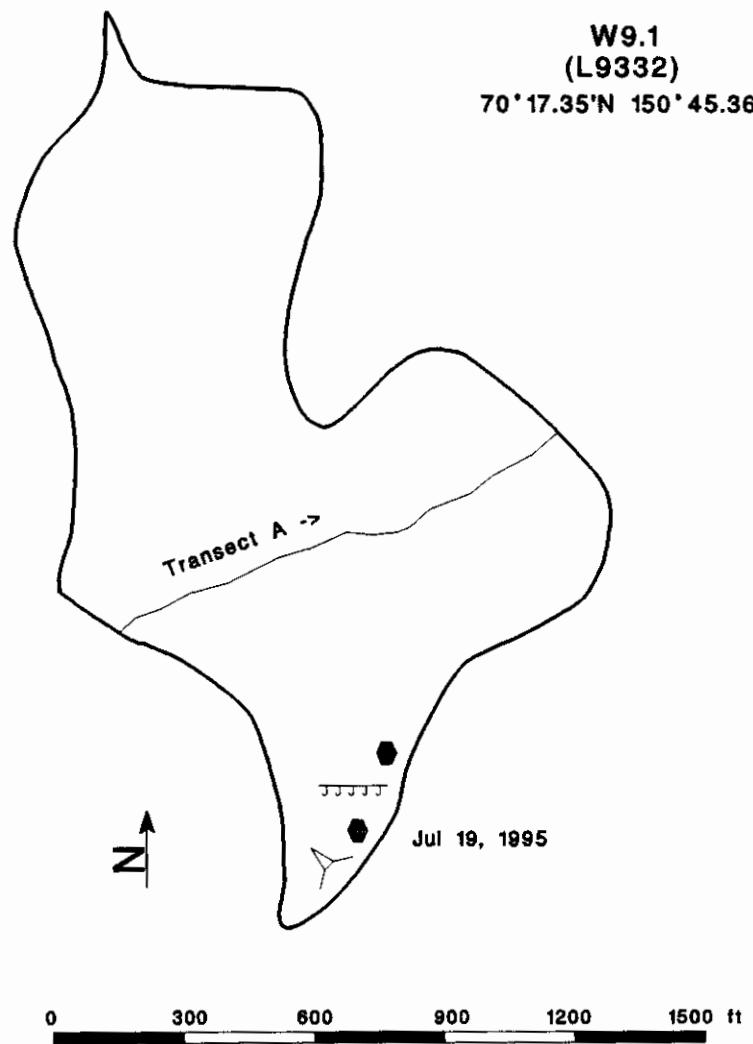
| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|-------------|----------|-------------------|-------------|---------------|---------------------|
| Gillnet | Aug 4 97 | 10.0 | Least cisco | 7 | 221-393 |
| Minnow Trap | Aug 4 97 | 12.5 | None | 0 | |





W9.1
(L9332)

70°17.35'N 150°45.36'W



Lake W9.1

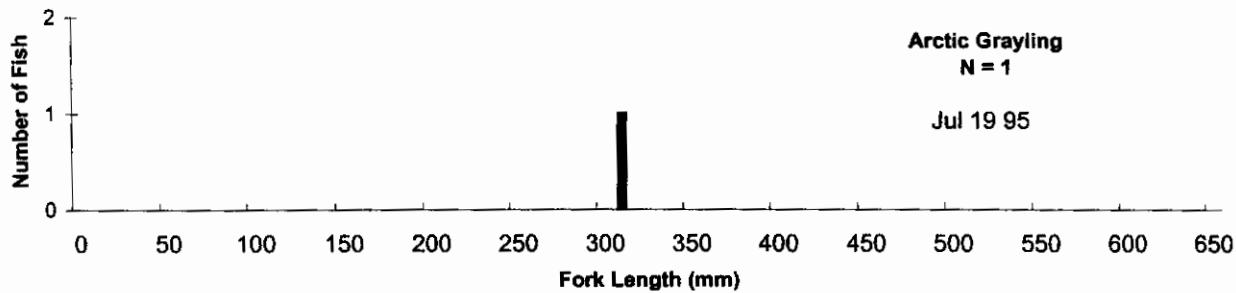
Other Names: L9332
Location: 70°17.35'N 150°45.36'W
USGS Quad Sheet: Harrison Bay B-2: T11N R5E, Sect 24
Habitat: Perched Lake (Infrequent Flooding)
Area: 32 acres
Maximum Depth: 15.6 feet
Active Outlet: No
Spec. Conductance: 90 $\mu\text{S}/\text{cm}$
pH: 7.9
Calculated Volume: 54.4 million gallons
Permittable Volume: 4.5 million gallons

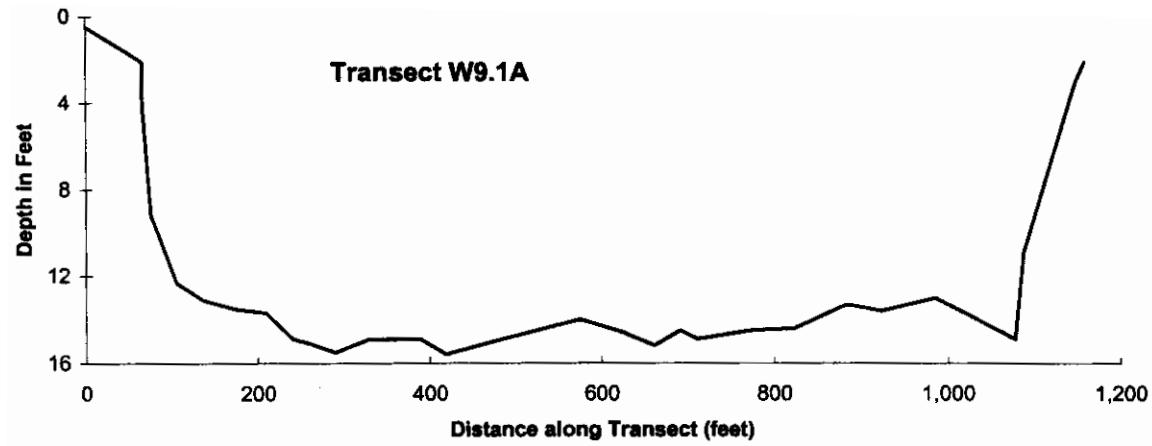
Water Quality:

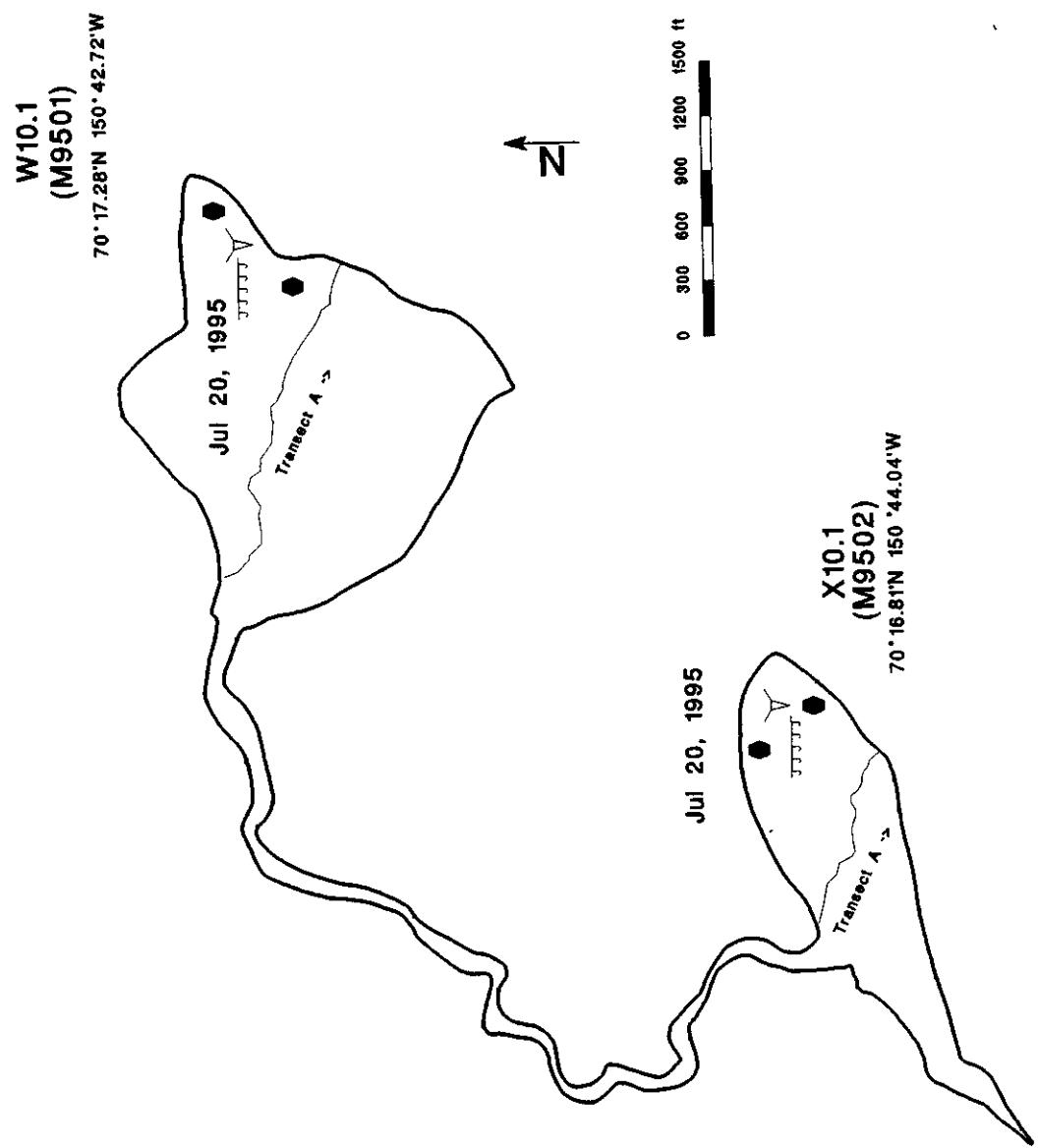
| Year of Test | Chloride (mg/l) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------|-----------------|---------------|------------------|----------------|--|-------------------------------|------------|
| 1993 | 3 | 2.3 | 2 | 10 | 33 | 40 | J. Lobdell |

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|-------------|--------------|----------------|--------------------|---------------|------------------|
| Fyke Net | Jul 19 95 | 22.8 | Arctic grayling | 1 | 310 |
| | | | Round whitefish | 1 | 232 |
| | | | 9spine stickleback | 140 | |
| Minnow Trap | Jul 19 95 | 45.2 | 9spine stickleback | 3 | |
| Set Line | Jul 19 95 | 22.3 | None | 0 | |
| Fyke Net | Jul 16-17 97 | 44.0 | Least cisco | 1 | 186 |
| | | | Longnose sucker | 1 | 324 |
| | | | Alaska blackfish | 4 | 66-104 |
| | | | Slimy sculpin | 3 | 48-78 |
| | | | 9spine stickleback | 46 | |





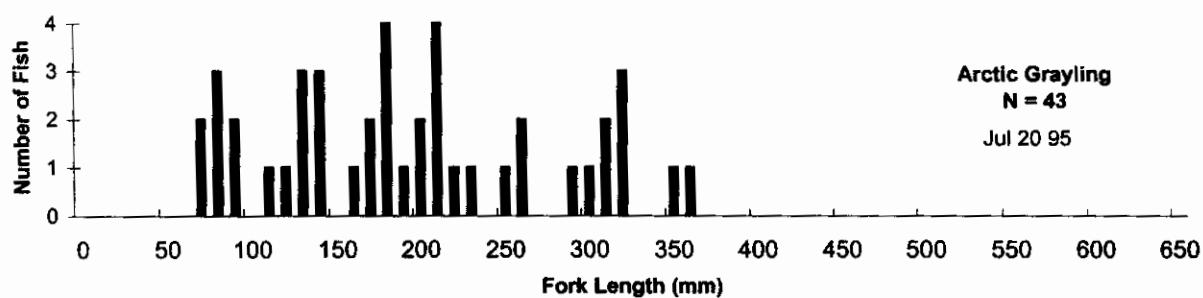


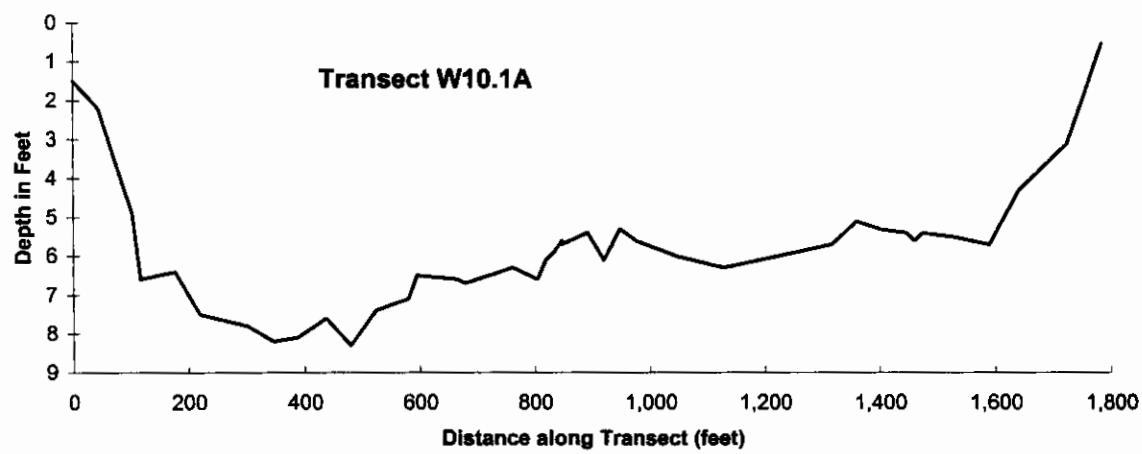
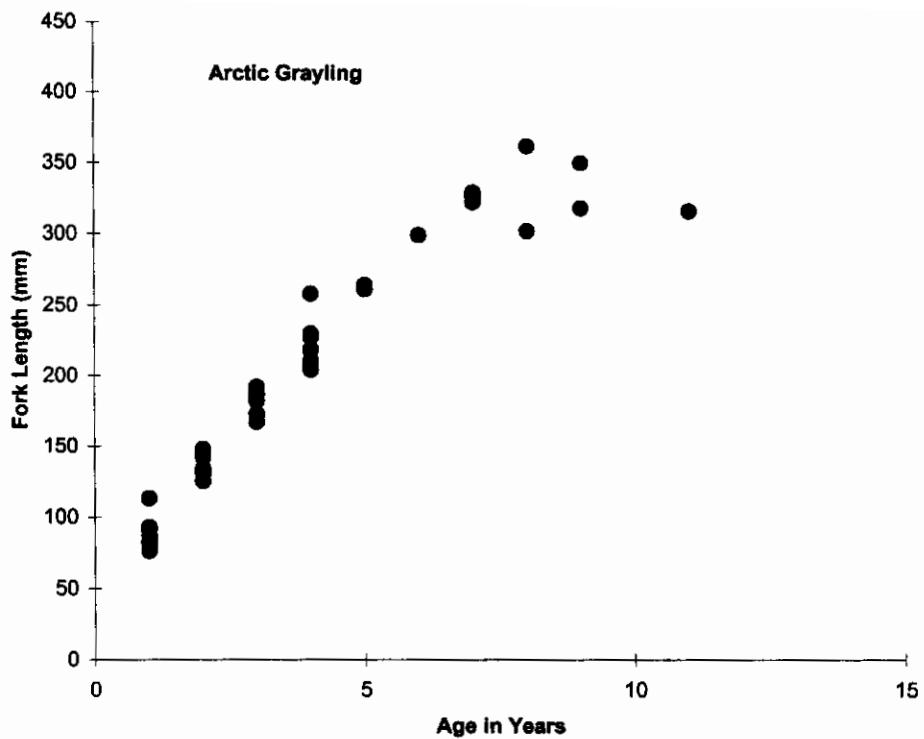
Lake W10.1

Other Names: M9501 and M9502
Location: 70°17.28'N 150°42.72'W
USGS Quad Sheet: Harrison Bay B-2: T11N R6E, Sect 19
Habitat: Drainage Lakes
Area: 66 acres
Maximum Depth: 8.3 feet
Active Outlet: Yes
Spec. Conductance: 104 µS/cm
Calculated Volume: 58.8 million gallons
Permittable Volume: 1.4 million gallons

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|-------------|-----------|-------------------|-----------------|---------------|---------------------|
| Fyke Net | Jul 20 95 | 22.7 | Arctic grayling | 43 | 76-362 |
| | | | Round whitefish | 5 | 157-221 |
| | | | Least cisco | 1 | 99 |
| Minnow Trap | Jul 20 95 | 44.6 | None | 0 | |
| Set Line | Jul 20 95 | 22.5 | None | 0 | |



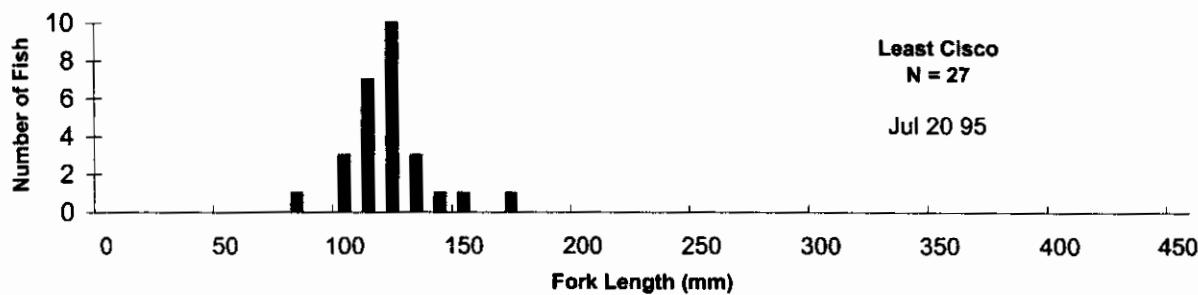
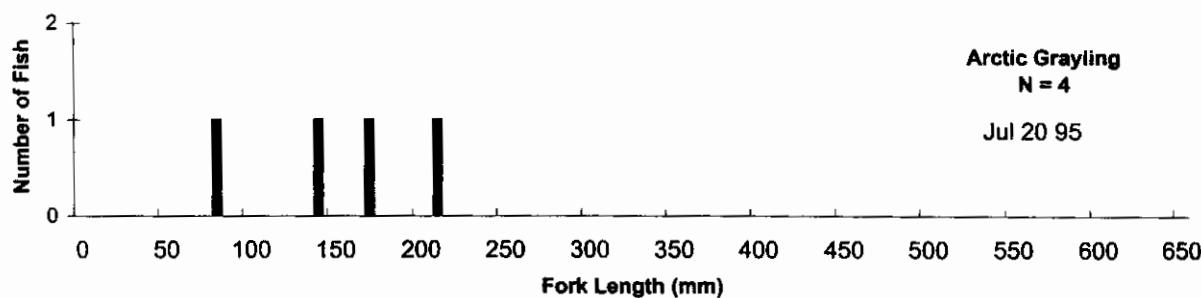


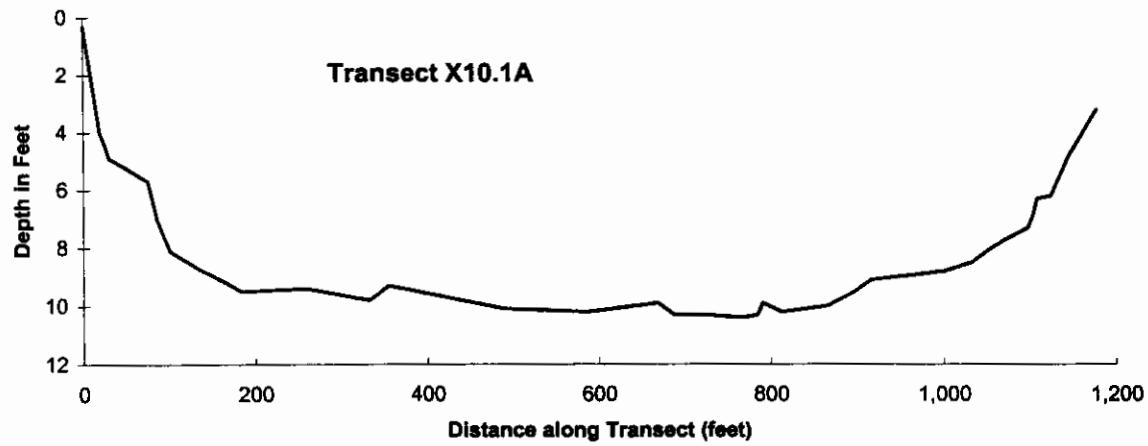
Lake X10.1

Other Names: M9502
Location: 70°16.81'N 150°44.04'W
USGS Quad Sheet: Harrison Bay B-2: T11N R6E, Sect 25
Habitat: Drainage Lake
Area: 33 acres
Maximum Depth: 10.4 feet
Active Outlet: Yes
Spec. Conductance: 109 $\mu\text{S}/\text{cm}$
Calculated Volume: 36.4 million gallons
Permittable Volume: 1.8 million gallons

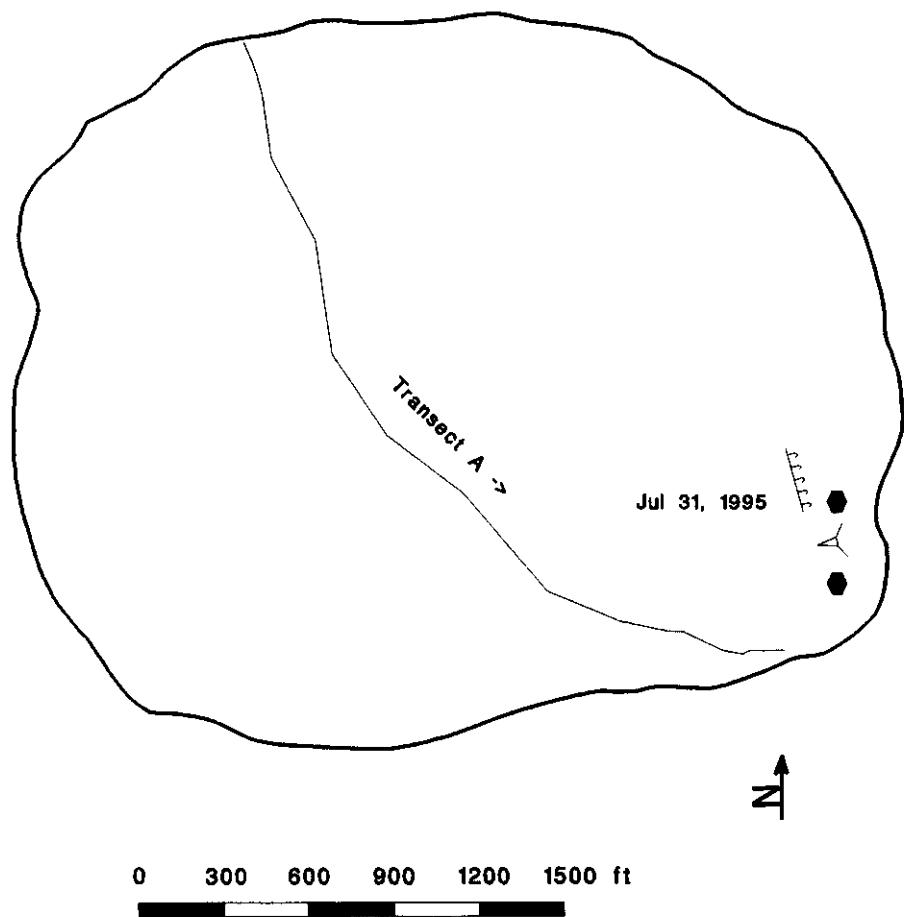
Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|-------------|-----------|-------------------|--------------------|---------------|---------------------|
| Fyke Net | Jul 20 95 | 20.3 | Broad whitefish | 1 | 101 |
| | | | Arctic grayling | 4 | 88-214 |
| | | | Least cisco | 27 | 81-172 |
| | | | Round whitefish | 1 | 168 |
| | | | 9spine stickleback | 39 | |
| Minnow Trap | Jul 20 95 | 40.6 | None | 0 | |
| Set Line | Jul 20 95 | 20.1 | None | 0 | |





W20.1
(L9121)
70°17.11'N 150°13.40'W

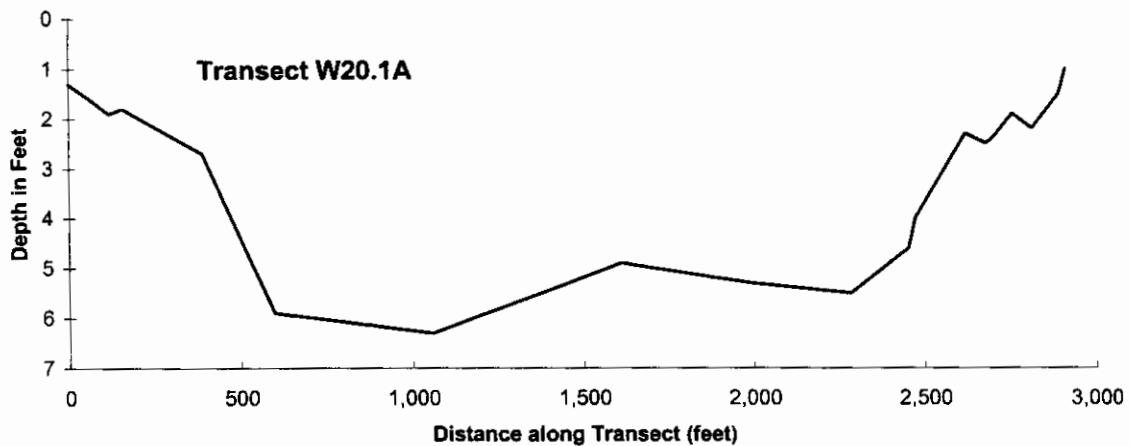


Lake W20.1

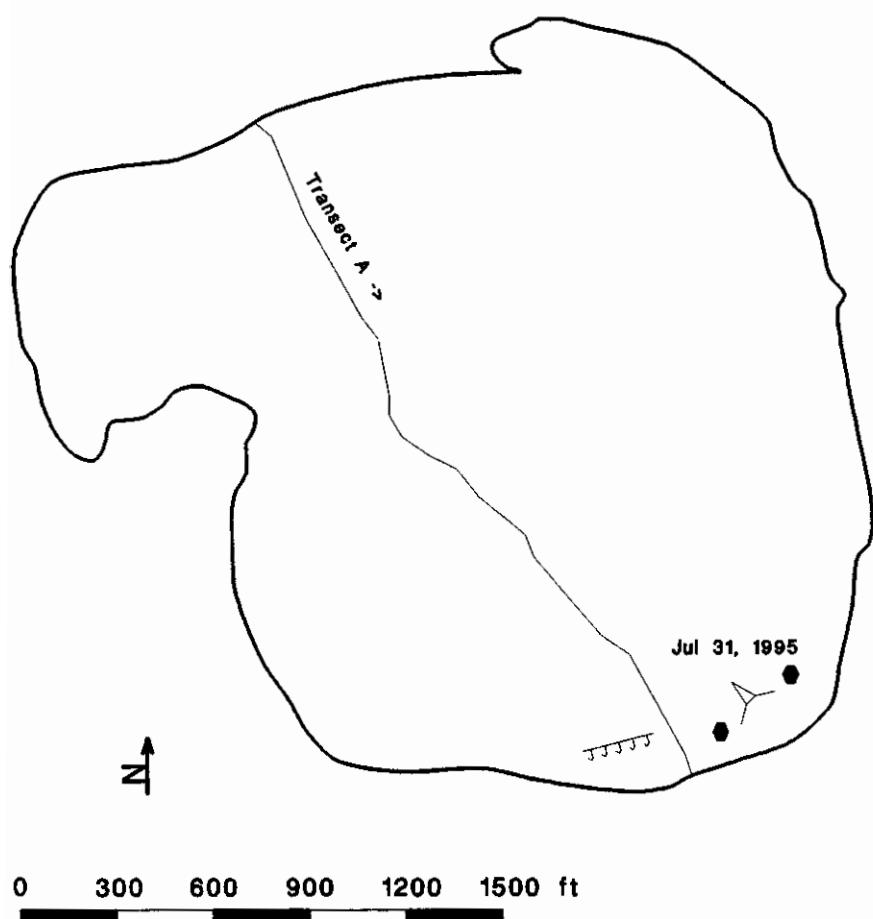
Other Names: L9121
Location: 70°17.11'N 150°13.40'W
USGS Quad Sheet: Harrison Bay B-1: on border of T11N R7E, Sect 25 and T11N R8E, Sect 30
Habitat: Tundra Lake
Area: 139 acres
Maximum Depth: 6.5 feet
Active Outlet: No
Spec. Conductance: 302 $\mu\text{S}/\text{cm}$
Calculated Volume: 97.0 million gallons
Permittable Volume: No fish concern

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|-------------|-----------|-------------------|--------------------|------------------|
| Fyke Net | Jul 31 95 | 22.3 | 9spine stickleback | 9 |
| Minnow Trap | Jul 31 95 | 44.7 | None | 0 |
| Set Line | Jul 31 95 | 22.1 | None | 0 |



W21.1
(L9120)
70°17.49'N 150°11.17'W

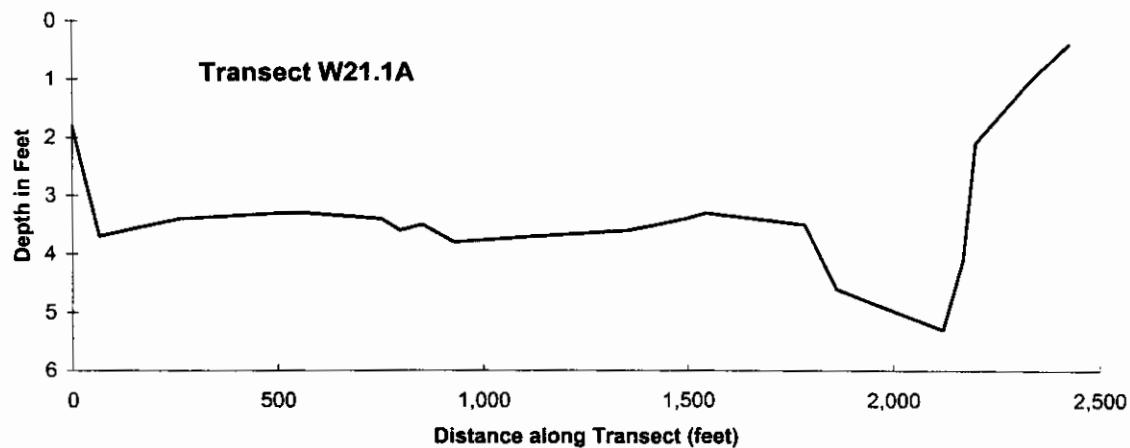


Lake W21.1

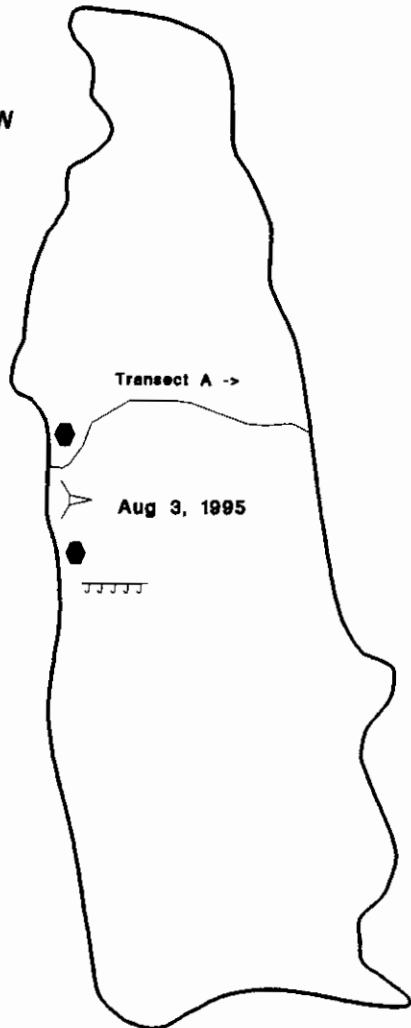
Other Names: L9120
Location: 70°17.49'N 150°11.17'W
USGS Quad Sheet: Harrison Bay B-1: T11N R8E, Sect 19
Habitat: Tundra Lake
Area: 99 acres
Maximum Depth: 5.3 feet
Active Outlet: No
Spec. Conductance: 292 $\mu\text{S}/\text{cm}$
Calculated Volume: 56.5 million gallons
Permittable Volume: No fish concern

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|-------------|-----------|-------------------|--------------------|------------------|
| Fyke Net | Jul 31 95 | 21.5 | 9spine stickleback | 16 |
| Minnow Trap | Jul 31 95 | 42.7 | None | 0 |
| Set Line | Jul 31 95 | 21.8 | None | 0 |



W21.2
(M9515)
70° 17.35'N 150° 09.54'W



N

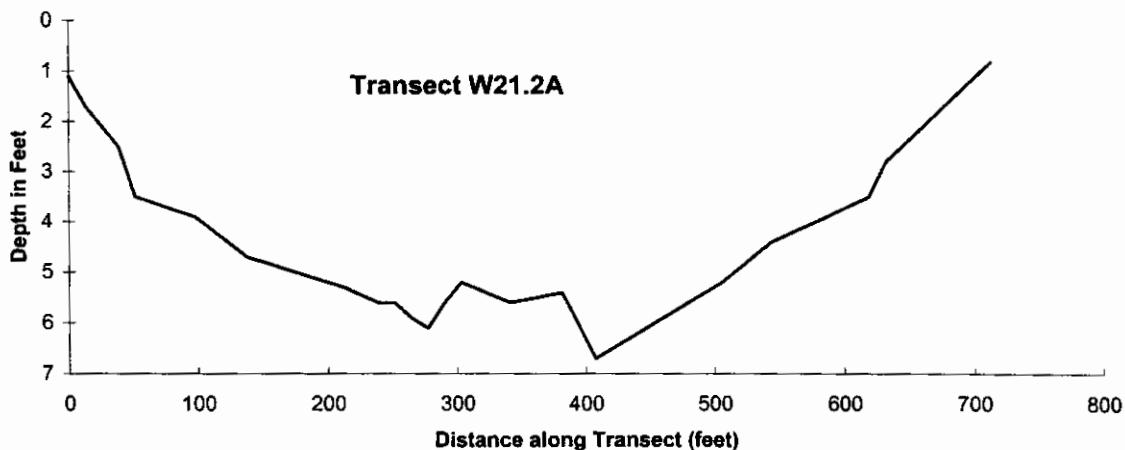
0 300 600 900 1200 1500 ft

Lake W21.2

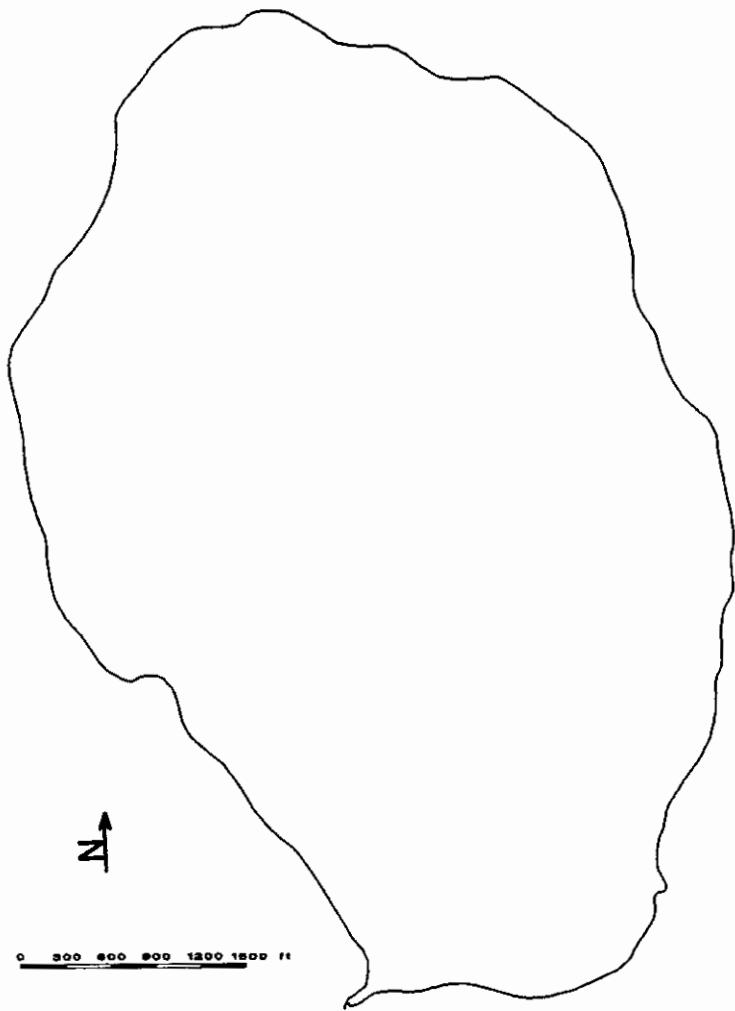
Other Names: M9515
Location: 70°17.35'N 150°09.54'W
USGS Quad Sheet: Harrison Bay B-1: T11N R8E, Sect 20
Habitat: Tundra Lake
Area: 38 acres
Maximum Depth: 6.7 feet
Active Outlet: No
Spec. Conductance: 225 $\mu\text{S}/\text{cm}$
Calculated Volume: 27.1 million gallons
Permittable Volume: No fish concern

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|-------------|----------|-------------------|---------|------------------|
| Fyke Net | Aug 3 95 | 19.1 | None | 0 |
| Minnow Trap | Aug 3 95 | 38.2 | None | 0 |
| Set Line | Aug 3 95 | 19.1 | None | 0 |



W26.1
(M8103)
70°17.48'N 149°54.75'W



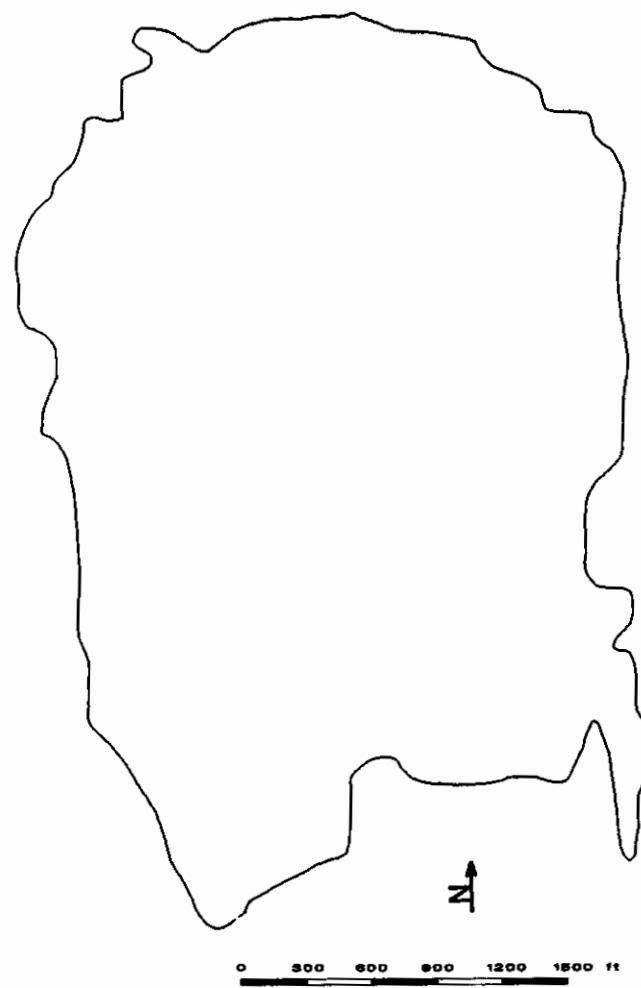
Lake W26.1

Other Names: M8103
Location: 70°17.48'N 149°54.75'W
USGS Quad Sheet: Beechey Point B-5: T11N R9E, Sect 20
Habitat: Tundra
Area: 520 acres
Maximum Depth: 5 feet
Active Outlet: No
Calculated Volume: 279.5 million gallons
Permittable Volume: No fish concern

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|----------|-----------|-------------------|---------|------------------|
| Gill Net | Aug 24 81 | ~24 | None | 0 |
| Gill Net | Jul 30 82 | 66.0 | None | 0 |

W27.1
(M8104)
70°17.23'N 149°51.82'W



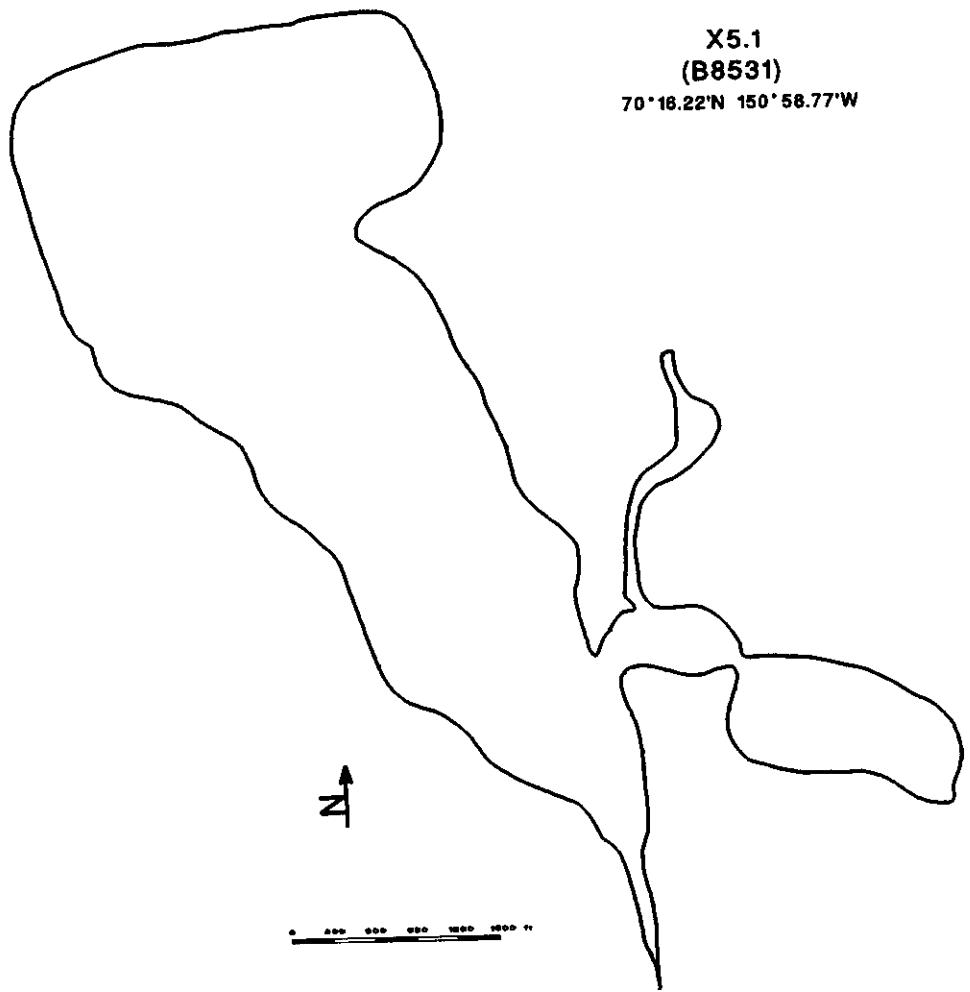
Lake W27.1

Other Names: M8104
Location: 70°17.23'N 149°51.82'W
USGS Quad Sheet: Beechey Point B-5: T11N R9E, Sect 21
Habitat: Tundra
Area: 208 acres
Maximum Depth: ? feet
Active Outlet: No
Calculated Volume: ? million gallons
Permittable Volume: No fish concern

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|----------|-----------|-------------------|---------|------------------|
| Gill Net | Aug 24 81 | ~24 | None | 0 |

X5.1
(B8531)
70°16.22'N 150°58.77'W



Lake X5.1

Other Names: B8531; L9326
Location: 70°16.22'N 150°58.77'W
USGS Quad Sheet: Harrison Bay B-2: T11N R5E, Sect 31
Habitat: Drainage Lake
Area: 296 acres
Maximum Depth: 8 feet
Active Outlet: No
Spec. Conductance: 100 $\mu\text{S}/\text{cm}$ (1985)
pH: 8.0 (1985)
Calculated Volume: 254.2 million gallons
Permittable Volume: 4.8 million gallons

Water Quality:

| Year of Test | Chloride (mg/l) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------|-----------------|---------------|------------------|----------------|--|-------------------------------|---------------------|
| 1985 | | | | | 51 | | Bendock & Burr 1986 |
| 1993 | 4 | 3.2 | 1.8 | 6.3 | 23 | 50 | J. Lobdell |

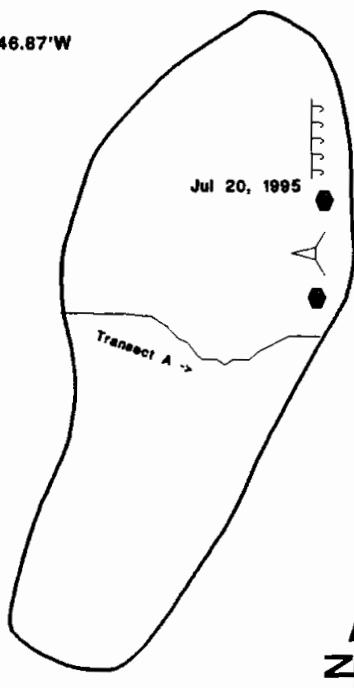
Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|----------|-----------------|----------------|------------------|---------------|
| Gill Net | Jul 16-19, 1985 | -24 | Broad whitefish | ? |
| | | | Least cisco | ? |
| | | | Alaska blackfish | ? |

Source of 1985 data: Bendock & Burr 1986

X9.1
(L9333)
70°16.86'N 150°46.87'W

Jul 20, 1995



N

0 300 600 900 1200 1500 ft

Lake X9.1

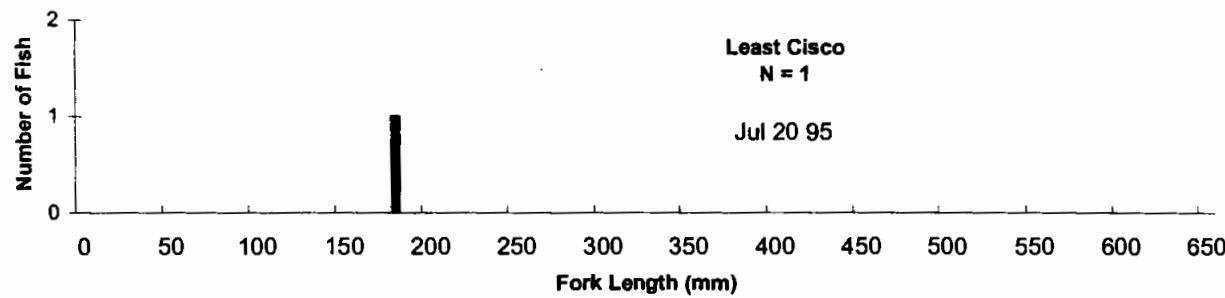
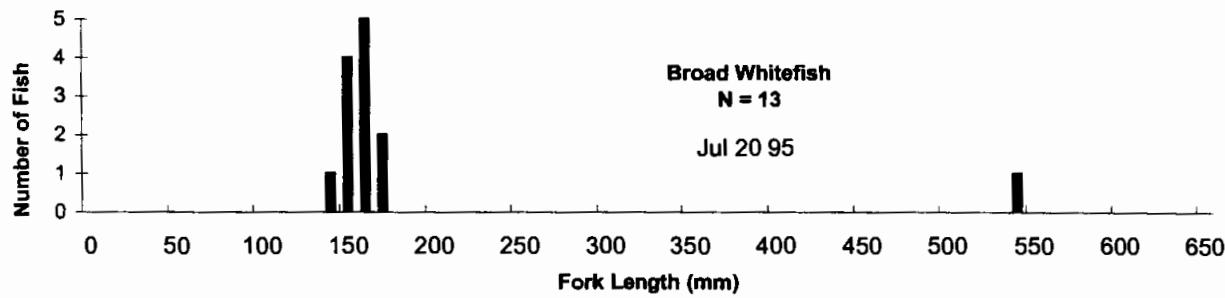
Other Names: L9333
Location: 70°16.88'N 150°46.87'W
USGS Quad Sheet: Harrison Bay B-2: T11N R5E, Sect 25
Habitat: Perched Lake (Infrequent Flooding)
Area: 12 acres
Maximum Depth: 13.1 feet
Active Outlet: No
Spec. Conductance: 132 $\mu\text{S}/\text{cm}$
Calculated Volume: 17.6 million gallons
Permittable Volume: 1.2 million gallons

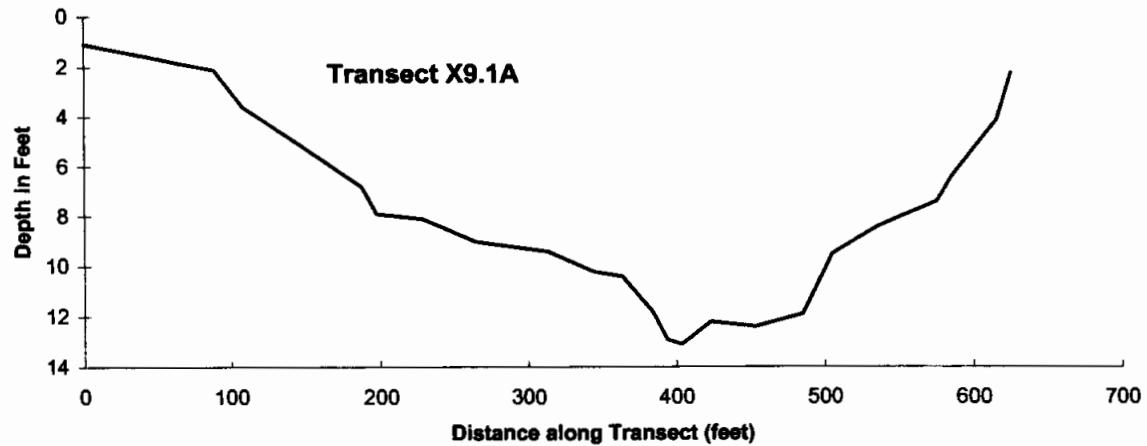
Water Quality:

| Year of Test | Chloride (mg/l) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------------|--------------------|------------------|---------------------|-------------------|---|--|------------|
| 1993 | 2 | 2.4 | 2.2 | 8.5 | 30 | 49 | J. Lobdell |

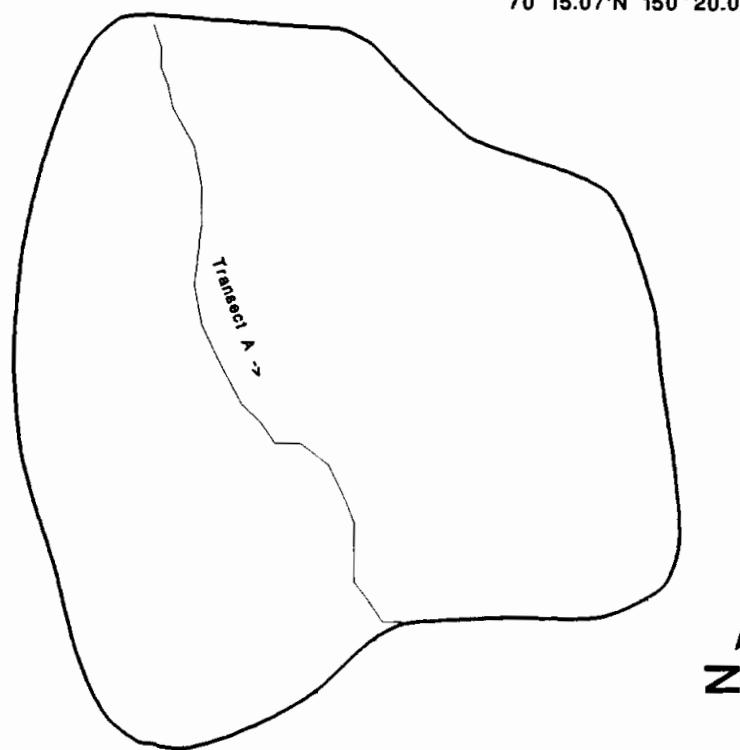
Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|-------------|-----------|-------------------|--------------------|------------------|---------------------|
| Fyke Net | Jul 20 95 | 23.4 | Broad whitefish | 13 | 148-540 |
| | | | Least cisco | 1 | 186 |
| | | | 9spine stickleback | 222 | |
| Minnow Trap | Jul 20 95 | 45.1 | 9spine stickleback | 5 | |
| Set Line | Jul 20 95 | 22.8 | None | 0 | |





Y18.1
(M9620)
70°15.07'N 150°20.00'W



0 300 600 900 1200 1500 ft

Lake Y18.1

Other Names: M9620
Location: 70°15.07'N 150°20.009'W
USGS Quad Sheet: Harrison Bay B-1: T10N R7E, Sect 3
Habitat: Tundra Lake
Area: 44 acres
Maximum Depth: 7.2 feet
Active Outlet: No
Calculated Volume: 34.0 million gallons
Permittable Volume: No fish concern

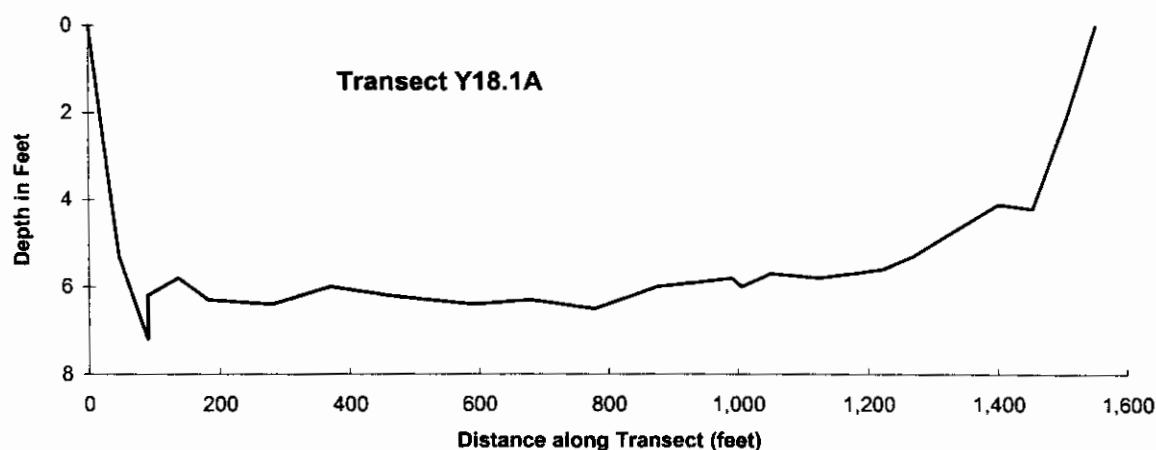
Water Quality:

| Year of Test | Chloride (mg/l) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------------|--------------------|------------------|---------------------|-------------------|---|--|------------|
| 1996 | 17.8 | 10.0 | 2.72 | 24.5 | 72.4 | 114 | J. Lobdell |

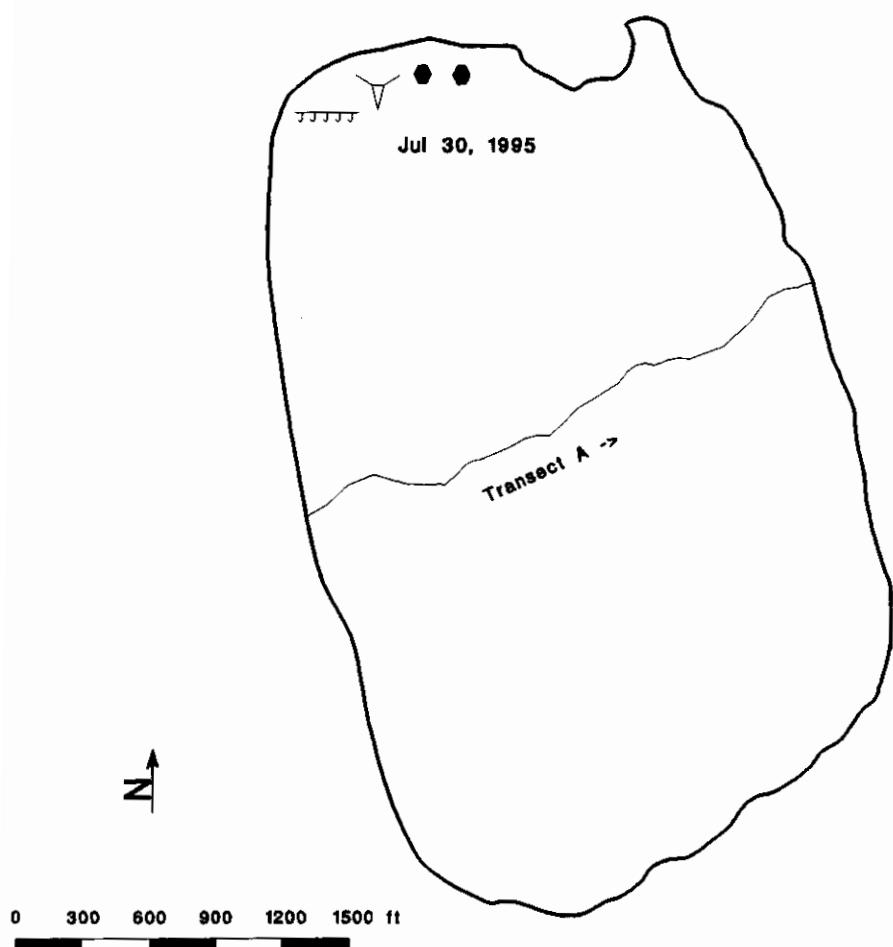
Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|------|-----------|-------------------|---------|------------------|
| | Jul 30 96 | 0.0 | | |

Not Sampled



X20.1
(L9122)
70°16.36'N 150°12.08'W

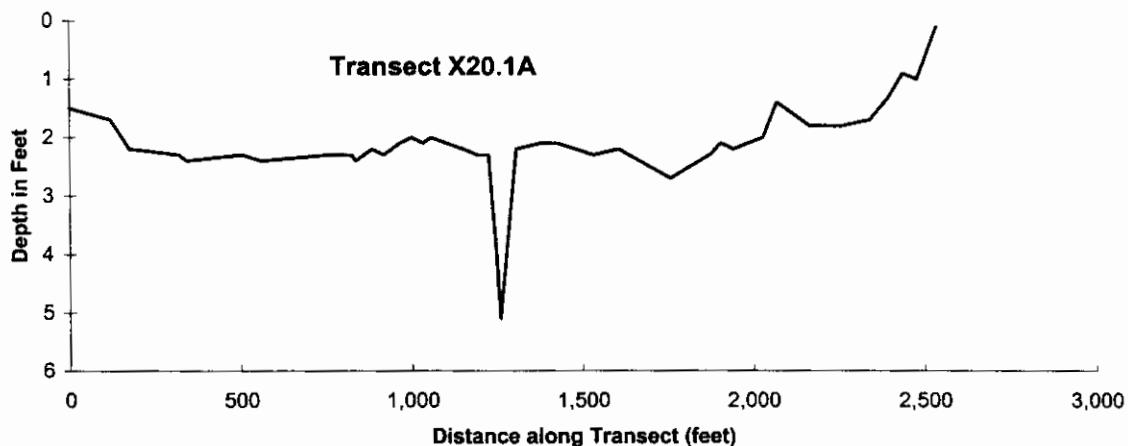


Lake X20.1

Other Names: L9122
Location: 70°16.36'N 150°12.08'W
USGS Quad Sheet: Harrison Bay B-1: T11N R8E, Sect 30
Habitat: Tundra Lake
Area: 185 acres
Maximum Depth: 5.1 feet
Active Outlet: No
Spec. Conductance: 372 $\mu\text{S}/\text{cm}$
Calculated Volume: 101.2 million gallons
Permittable Volume: No fish concern

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|-------------|-----------|-------------------|--------------------|------------------|
| Fyke Net | Jul 30 95 | 23.1 | 9spine stickleback | 17 |
| Minnow Trap | Jul 30 95 | 46.2 | None | 0 |
| Set Line | Jul 30 95 | 23.0 | None | 0 |



X21.1
(M9516)

70°16.98'N 150° 9.94'W

Aug 3, 1995

Transect A ->



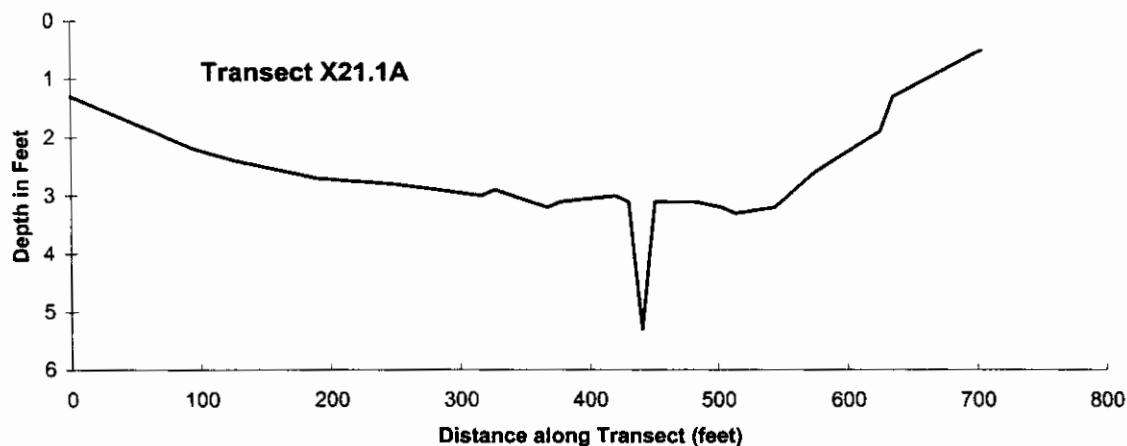
0 300 600 900 1200 1500 ft

Lake X21.1

Other Names: M9516
Location: 70°16.98'N 150°09.94'W
USGS Quad Sheet: Harrison Bay B-1: T11N R8E, Sect 29
Habitat: Tundra Lake
Area: 31 acres
Maximum Depth: 5.3 feet
Active Outlet: No
Spec. Conductance: 254 $\mu\text{S}/\text{cm}$
Calculated Volume: 17.9 million gallons
Permittable Volume: No fish concern

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|-------------|----------|-------------------|---------|------------------|
| Fyke Net | Aug 3 95 | 16.2 | None | 0 |
| Minnow Trap | Aug 3 95 | 32.1 | None | 0 |
| Set Line | Aug 3 95 | 16.2 | None | 0 |



X22.1
(M9514)

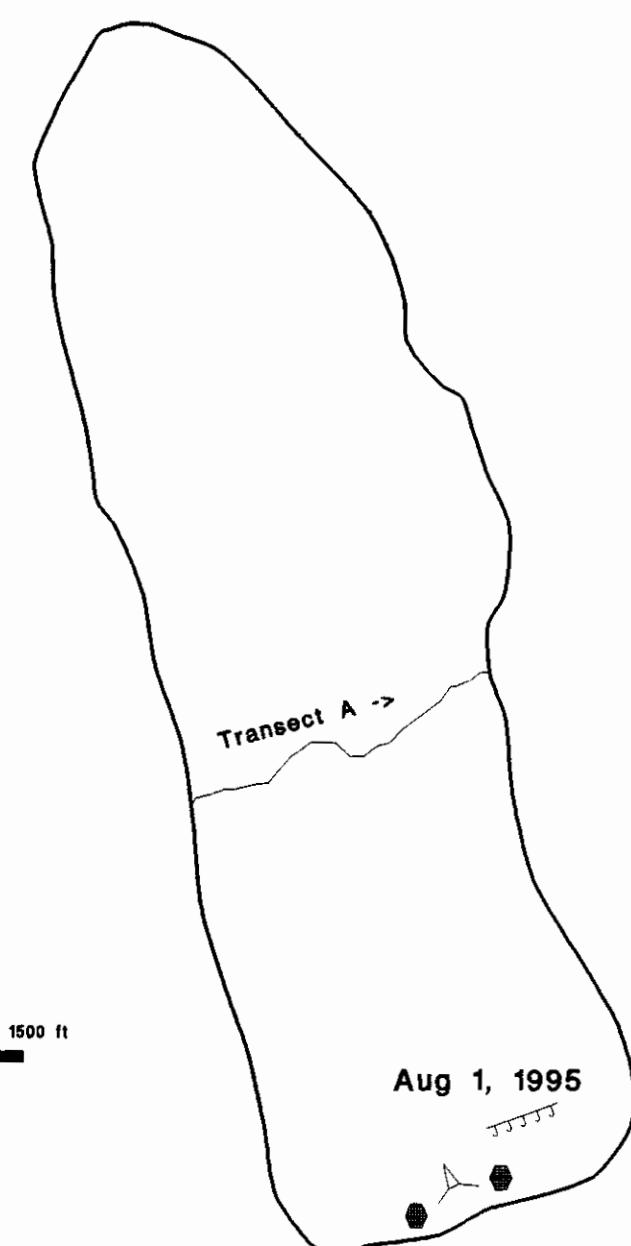
70°16.91'N 150°07.70'W



0 300 600 900 1200 1500 ft

Transect A ->

Aug 1, 1995

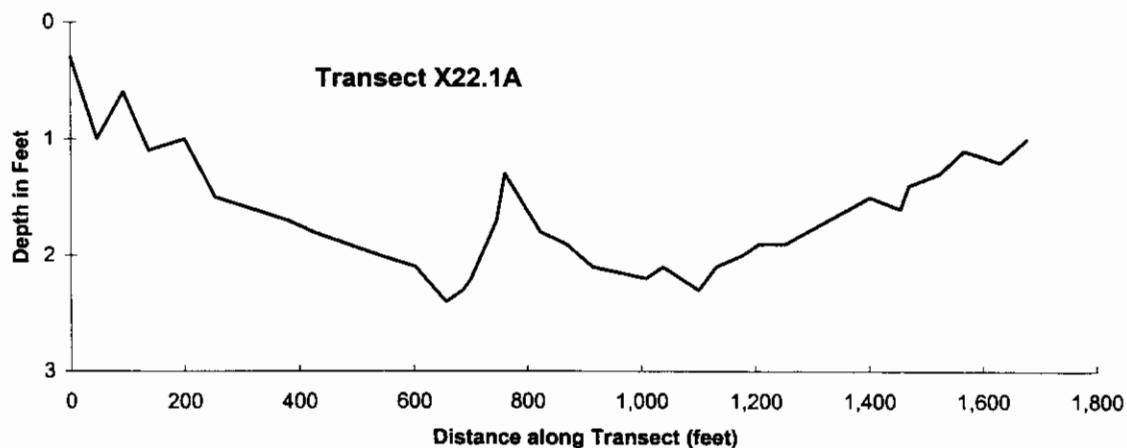


Lake X22.1

Other Names: M9514
Location: 70°16.91'N 150°07.70'W
USGS Quad Sheet: Harrison Bay B-1: T11N R8E, Sect 28
Habitat: Tundra Lake
Area: 175 acres
Maximum Depth: 2.4 feet
Active Outlet: No
Spec. Conductance: 324 µS/cm
Calculated Volume: 45.3 million gallons
Permittable Volume: No fish concern

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|-------------|----------|-------------------|--------------------|------------------|
| Fyke Net | Aug 1 95 | 46.0 | 9spine stickleback | 18 |
| Minnow Trap | Aug 1 95 | 92.0 | None | 0 |
| Set Line | Aug 1 95 | 45.6 | None | 0 |

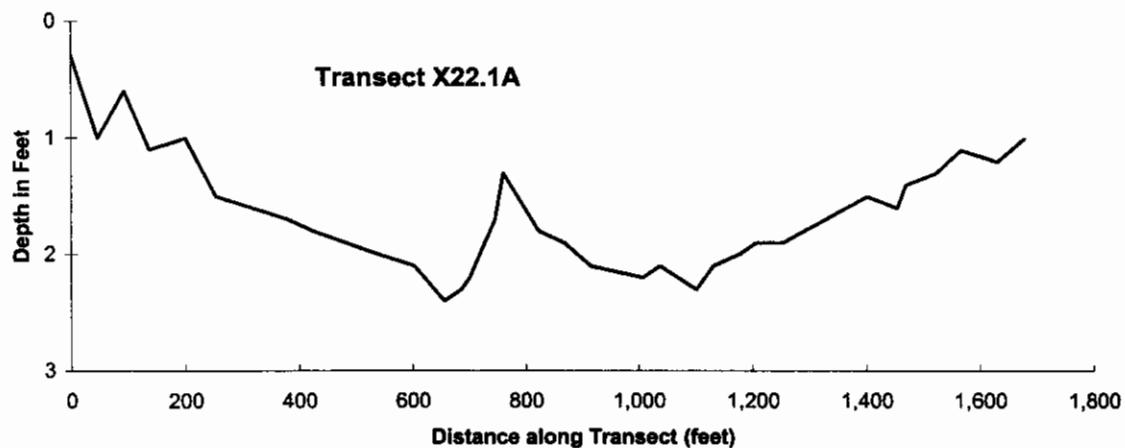


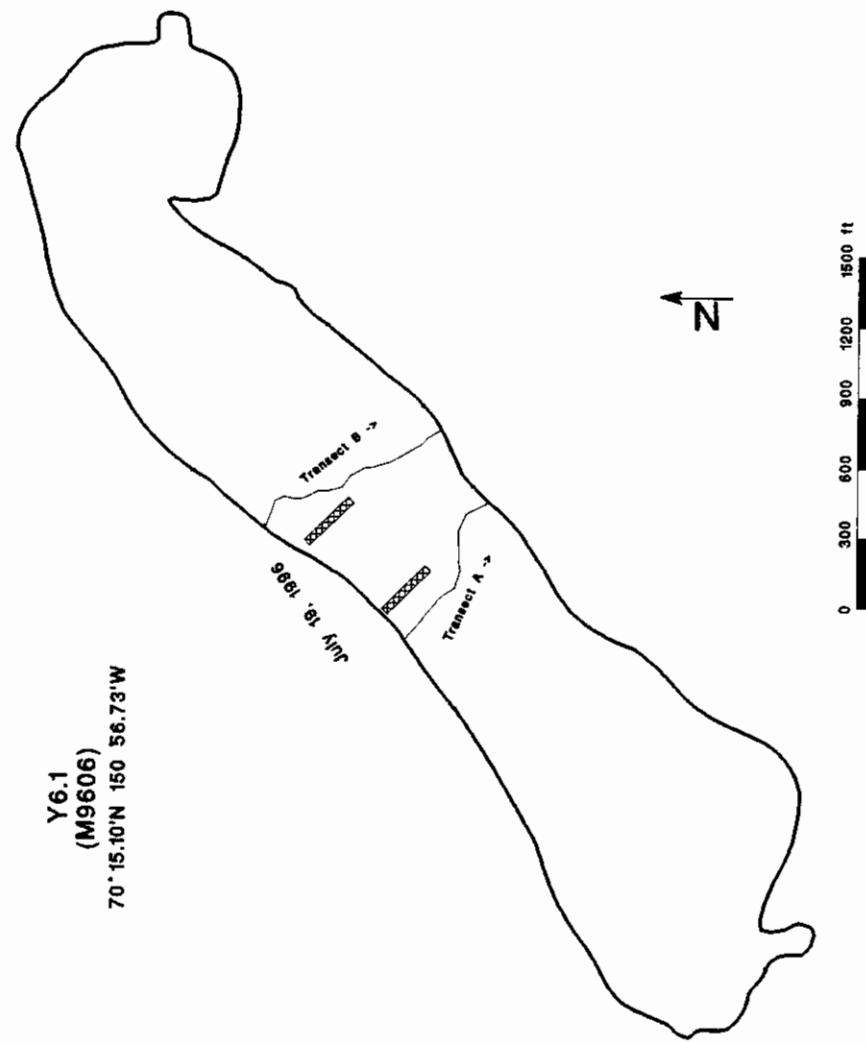
Lake X22.1

Other Names: M9514
Location: 70°16.91'N 150°07.70'W
USGS Quad Sheet: Harrison Bay B-1: T11N R8E, Sect 28
Habitat: Tundra Lake
Area: 175 acres
Maximum Depth: 2.4 feet
Active Outlet: No
Spec. Conductance: 324 µS/cm
Calculated Volume: 45.3 million gallons
Permittable Volume: 0.0 million gallons

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|-------------|----------|-------------------|--------------------|------------------|
| Fyke Net | Aug 1 95 | 46.0 | 9spine stickleback | 18 |
| Minnow Trap | Aug 1 95 | 92.0 | None | 0 |
| Set Line | Aug 1 95 | 45.6 | None | 0 |





Lake Y6.1

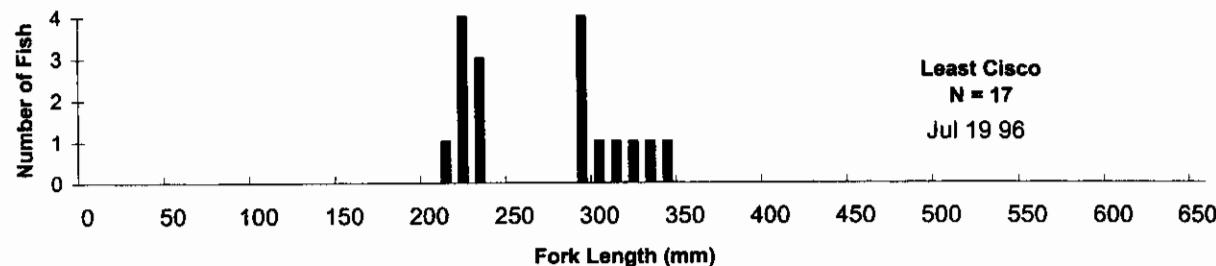
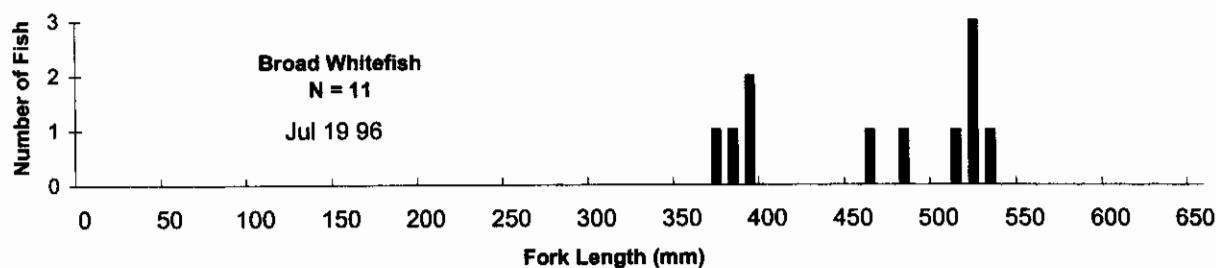
Other Names: M9606
Location: 70°15.10'N 150°56.73'W
USGS Quad Sheet: Harrison Bay A-2/B-2: T10N R5E, Sect 5,6
Habitat: Perched Lake (Infrequent Flooding)
Area: 78 acres
Maximum Depth: 10.1 feet
Active Outlet: No
Spec. Conductance: 99 $\mu\text{S}/\text{cm}$
Calculated Volume: 84.8 million gallons
Permittable Volume: 3.9 million gallons

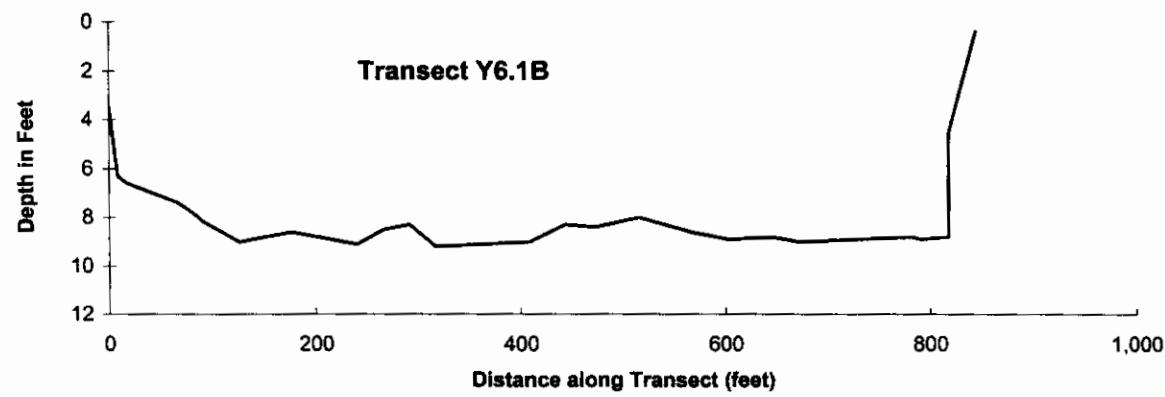
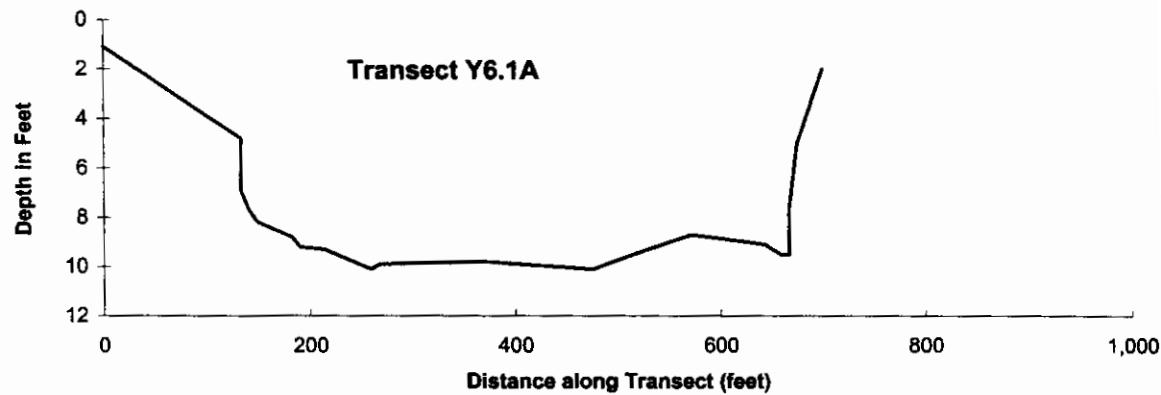
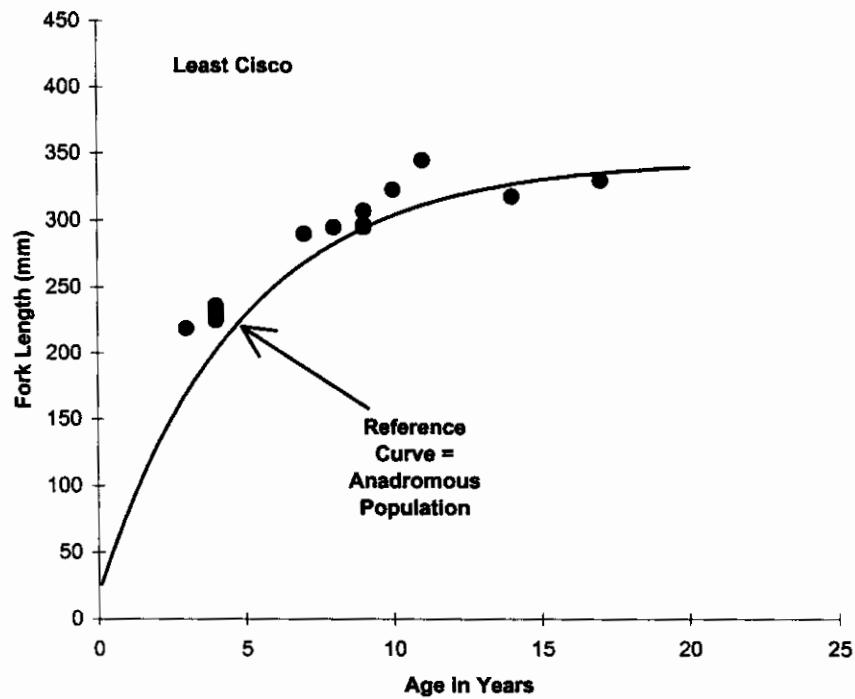
Water Quality:

| Year of Test | Chloride (mg/l) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------------|--------------------|------------------|---------------------|-------------------|---|--|------------|
| 1996 | 5.2 | 7.7 | 3.46 | 11.2 | 42.2 | 49 | J. Lobdell |

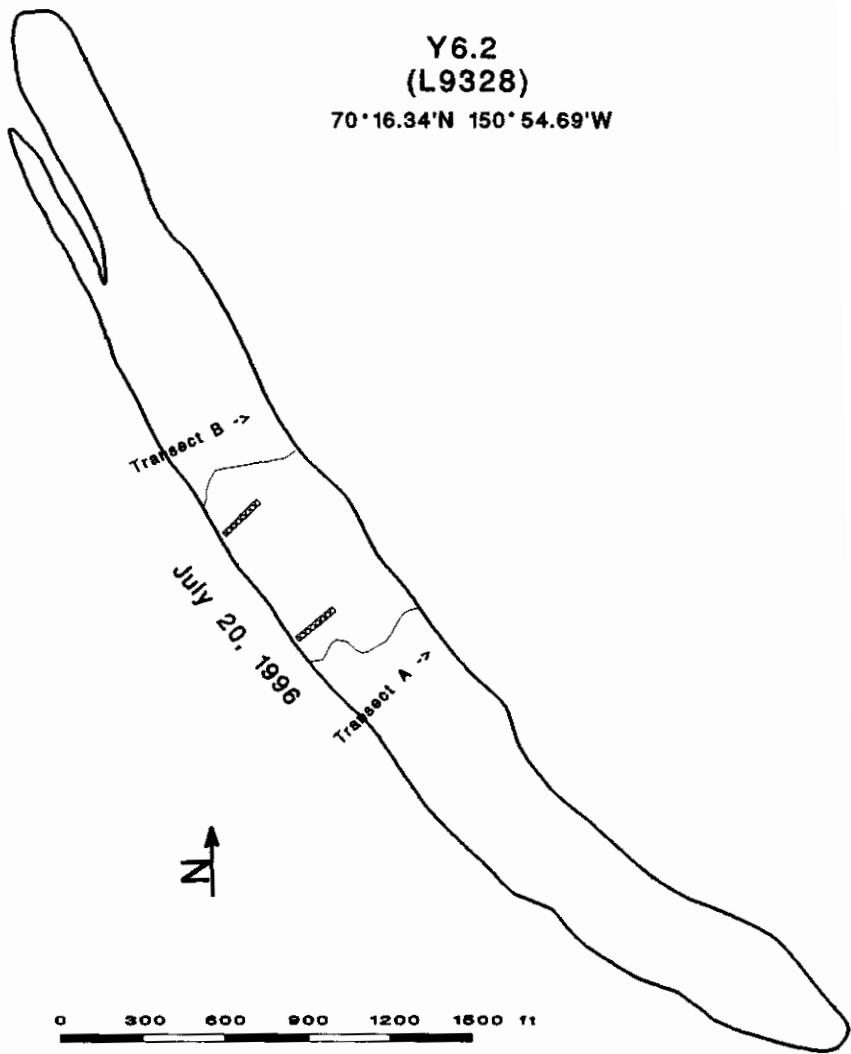
Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|----------|-----------|-------------------|-----------------|------------------|---------------------|
| Gill Net | Jul 19 96 | 13.3 | Broad whitefish | 11 | 373-533 |
| | | | Least cisco | 17 | 219-345 |





Y6.2
(L9328)
70°16.34'N 150°54.69'W



Lake Y6.2

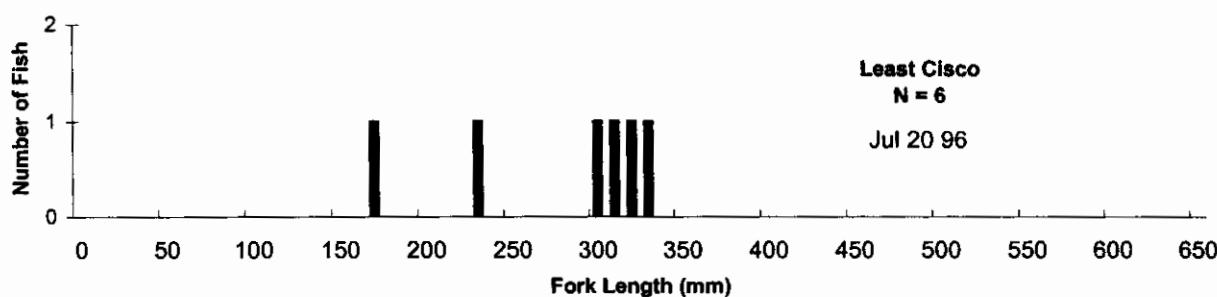
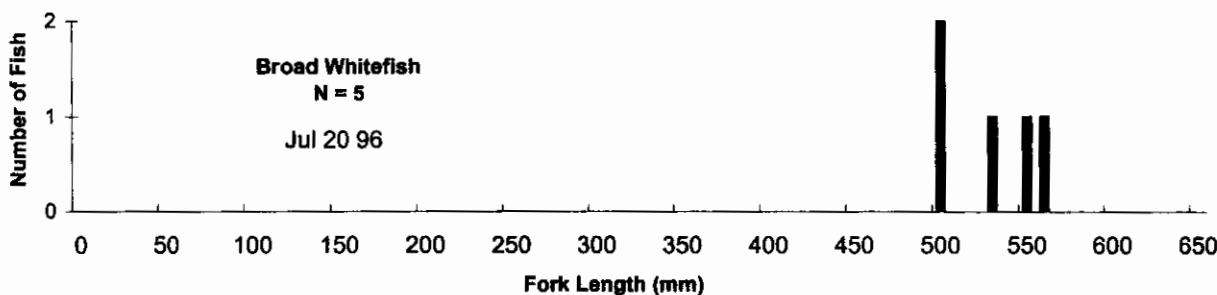
Other Names: L9328
Location: 70°16.34'N 150°54.69'W
USGS Quad Sheet: Harrison Bay B-2: T11N R5E, Sect 29, 32
Habitat: Perched Lake (Infrequent Flooding)
Area: 42 acres
Maximum Depth: 13.2 feet
Active Outlet: No
Spec. Conductance: 97 $\mu\text{S}/\text{cm}$
Calculated Volume: 59.1 million gallons
Permittable Volume: 4.2 million gallons

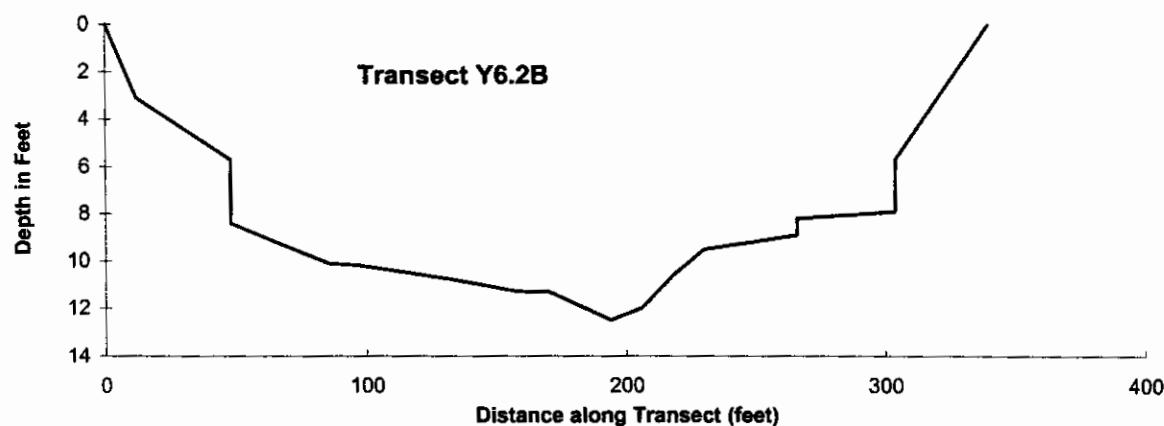
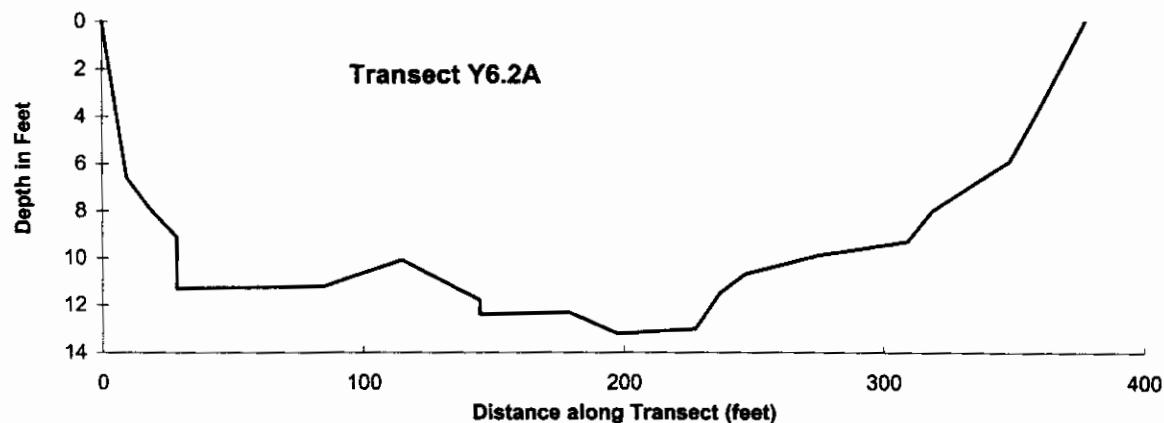
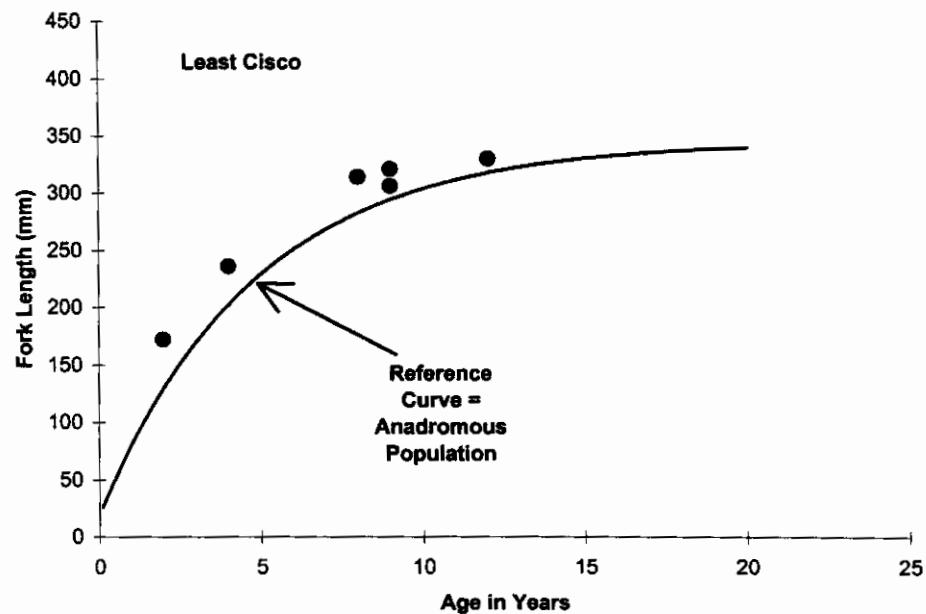
Water Quality:

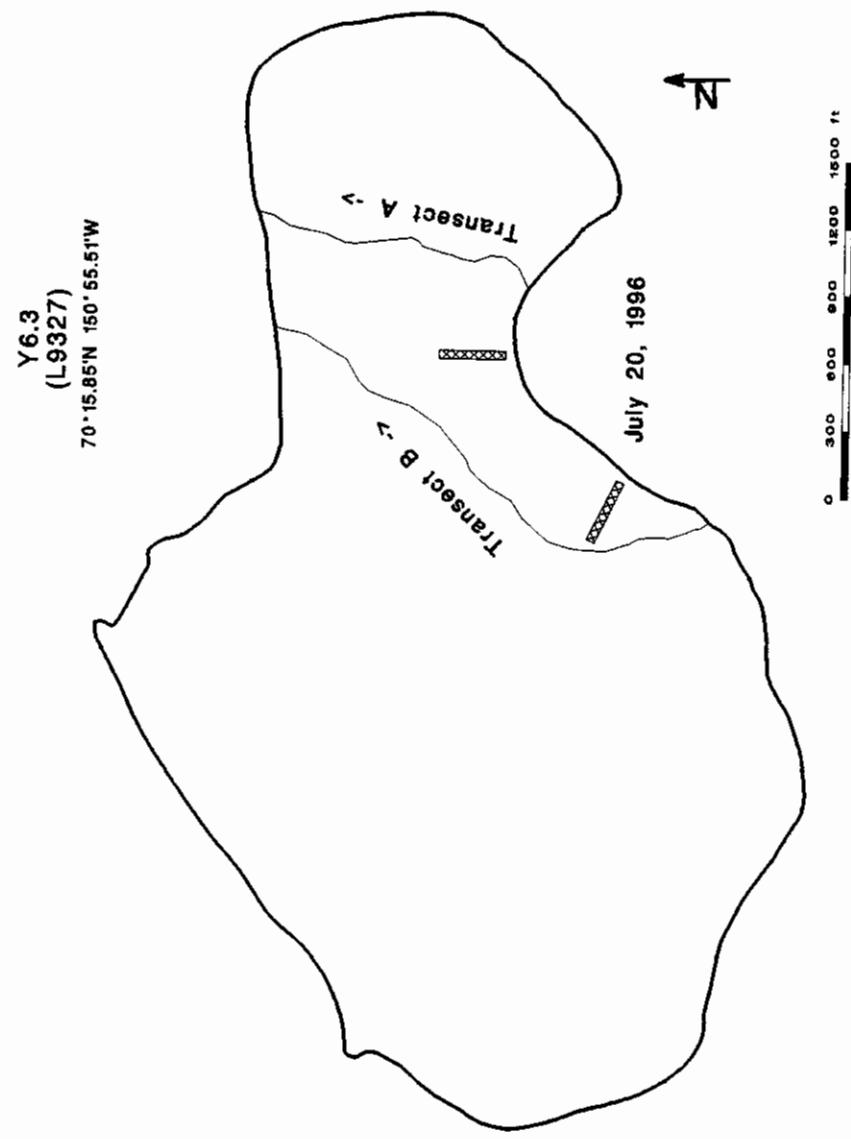
| Year of Test | Chloride (mg/l) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------------|--------------------|------------------|---------------------|-------------------|---|--|------------|
| 1993 | 3 | 2.3 | 2.3 | 6.4 | 25 | 46 | J. Lobdell |

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|----------|-----------|-------------------|-----------------|------------------|---------------------|
| Gill Net | Jul 20 96 | 9.9 | Broad whitefish | 5 | 500-564 |
| | | | Least cisco | 6 | 172-330 |







Lake Y6.3

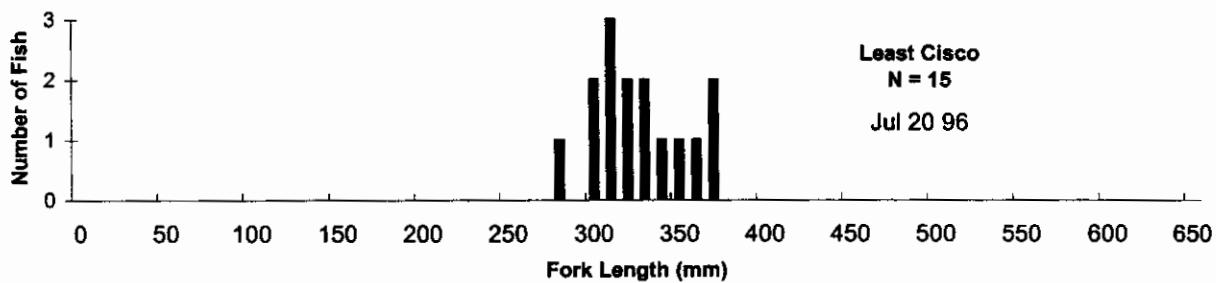
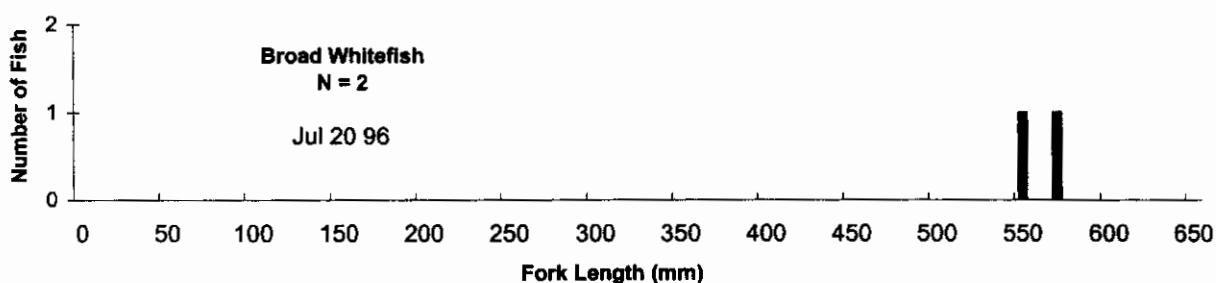
Other Names: L9327
Location: 70°15.85'N 150°55.51'W
USGS Quad Sheet: Harrison Bay B-2: T11N R5E, Sect 32
Habitat: Perched Lake (Infrequent Flooding)
Area: 202 acres
Maximum Depth: 13.0 feet
Active Outlet: No
Spec. Conductance: 80 $\mu\text{S}/\text{cm}$
pH: 7.5-7.8
Calculated Volume: 282.8 million gallons
Permissible Volume: 19.6 million gallons

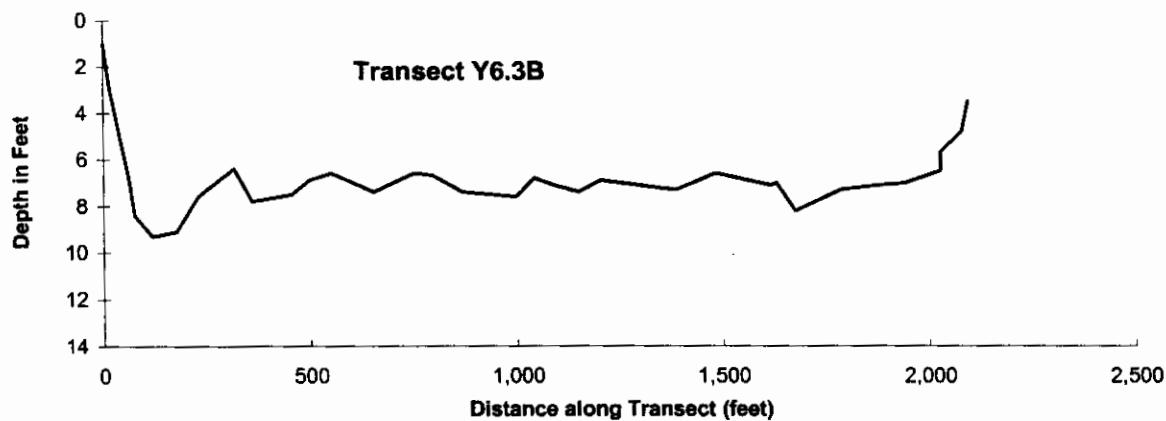
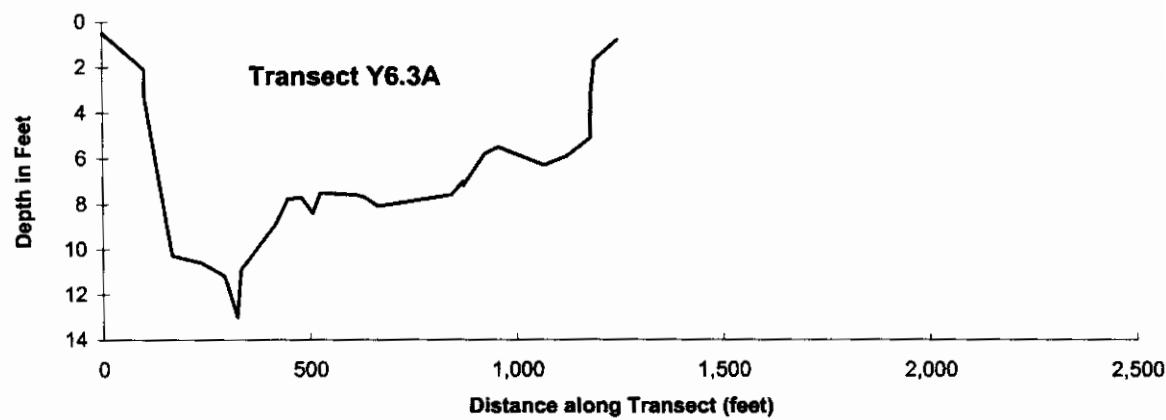
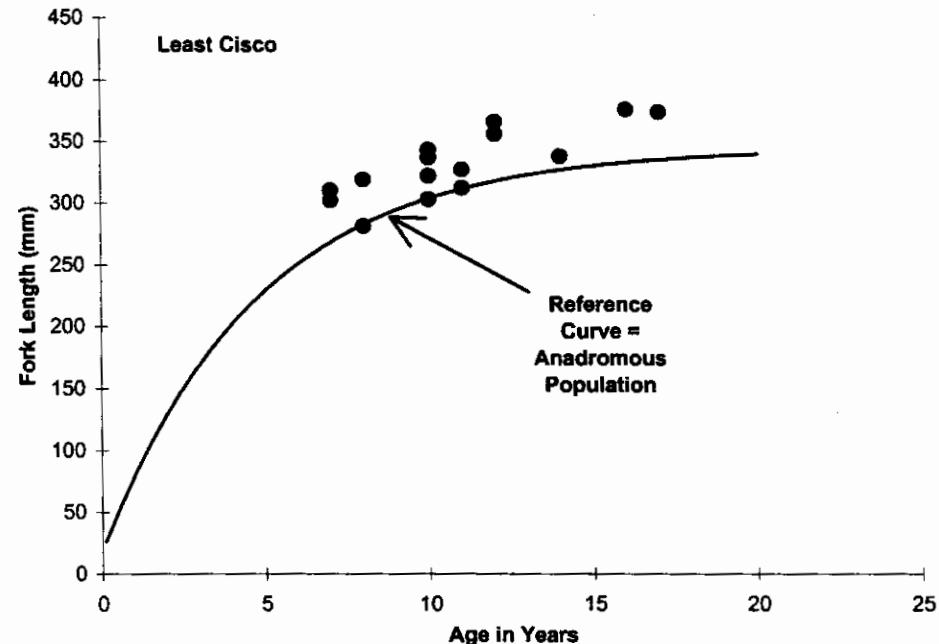
Water Quality:

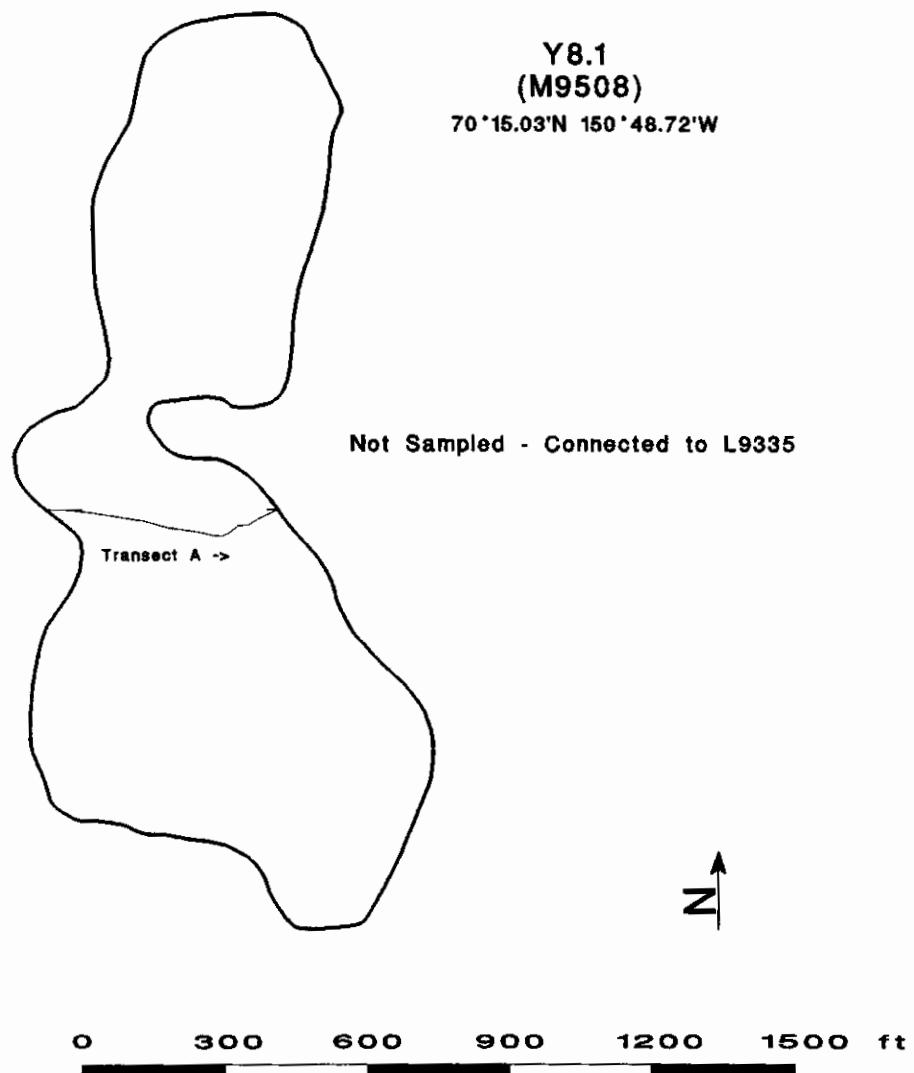
| Year of Test | Chloride (mg/l) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------|-----------------|---------------|------------------|----------------|--|-------------------------------|------------|
| 1993 | 2 | 1.5 | 1.7 | 4.9 | 19 | 78 | J. Lobdell |

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|----------|-----------|----------------|-----------------|---------------|------------------|
| Gill Net | Jul 20 96 | 11.2 | Broad whitefish | 2 | 552-579 |
| | | | Least cisco | 15 | 281-376 |





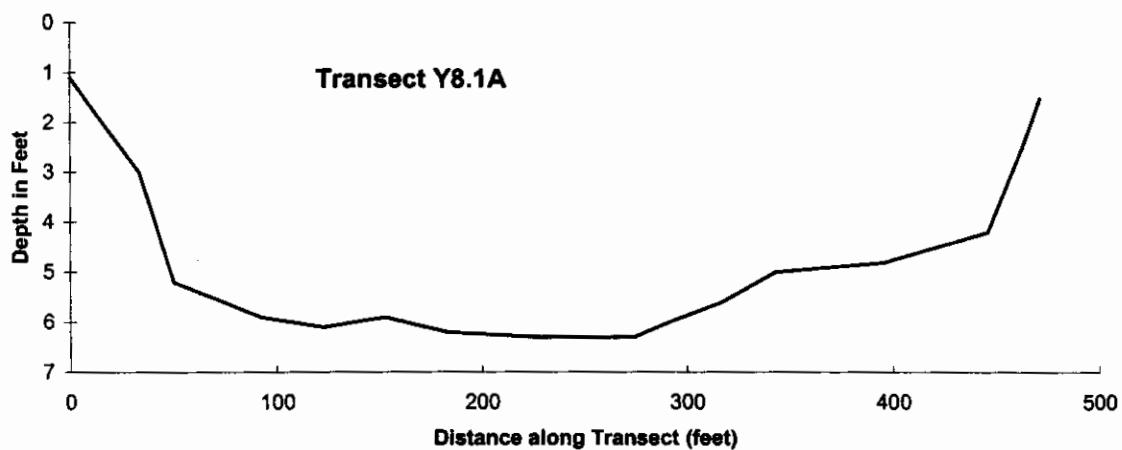


Lake Y8.1

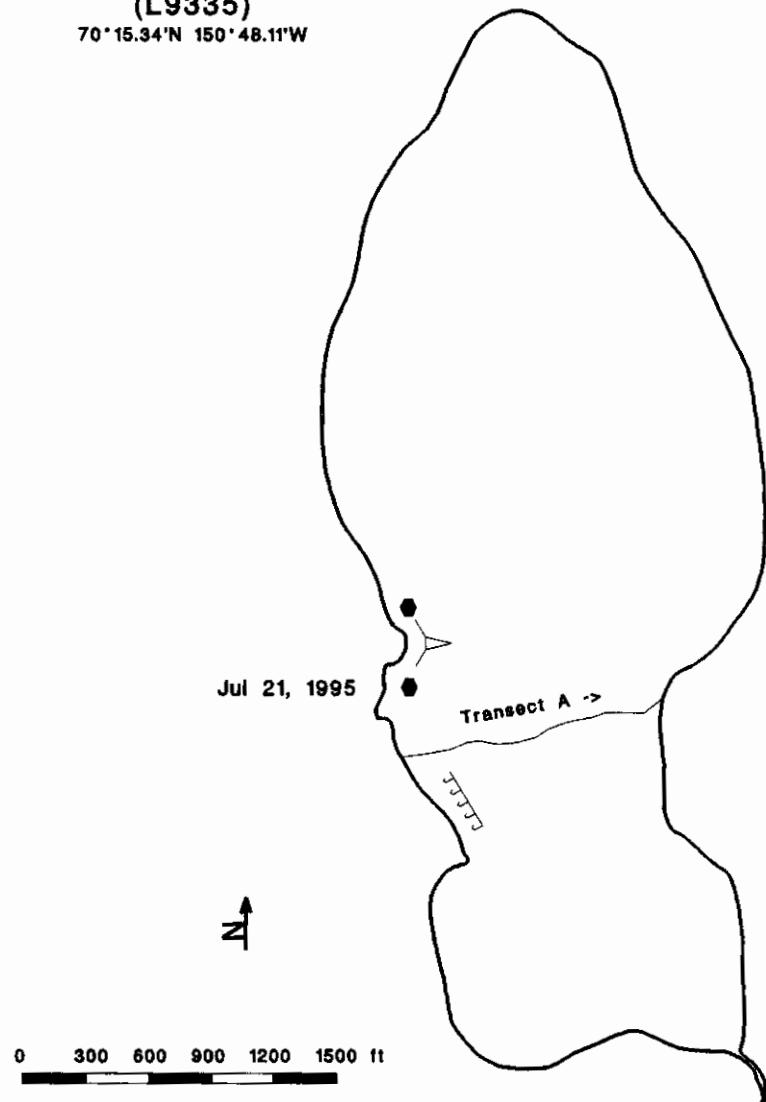
Other Names: M9508
Location: 70°15.03'N 150°48.72'W
USGS Quad Sheet: Harrison Bay B-2: T10N R5E, Sect 2
Habitat: Perched Lake (Infrequent Flooding)
Area: 20 acres
Maximum Depth: 6.3 feet
Active Outlet: No
Spec. Conductance: 76 µS/cm
Calculated Volume: 13.4 million gallons
Permittable Volume: 0.0 million gallons

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|---|------|-------------------|---------|------------------|
| Not sampled, connected to L9335, which contained least cisco and ninespine stickleback. | | | | |



Y8.2
(L9335)
70°15.34'N 150°48.11'W



Lake Y8.2

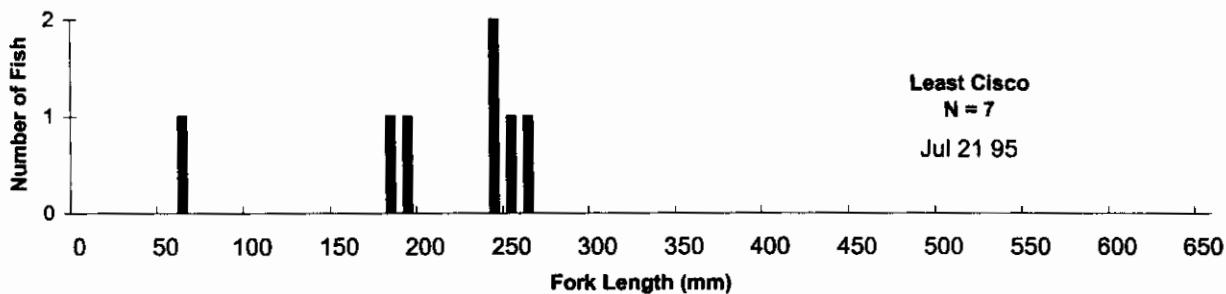
Other Names: L9335
Location: 70°15.34'N 150°48.11'W
USGS Quad Sheet: Harrison Bay B-2: T10N R5E, Sect 2
Habitat: Perched Lake (infrequent Flooding)
Area: 168 acres
Maximum Depth: 9.6 feet
Active Outlet: No
Spec. Conductance: 73 $\mu\text{S}/\text{cm}$
pH: 7.7
Calculated Volume: 173.1 million gallons
Permittable Volume: 7.0 million gallons

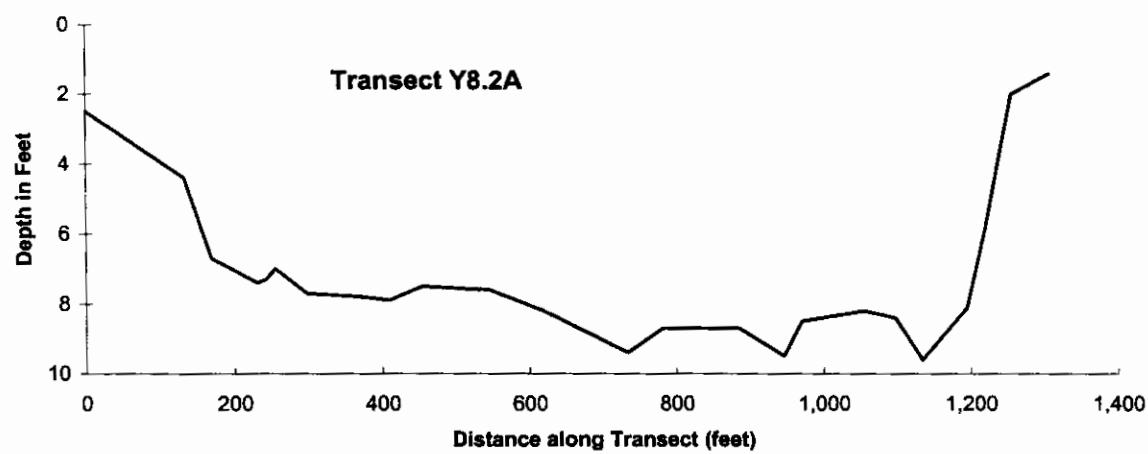
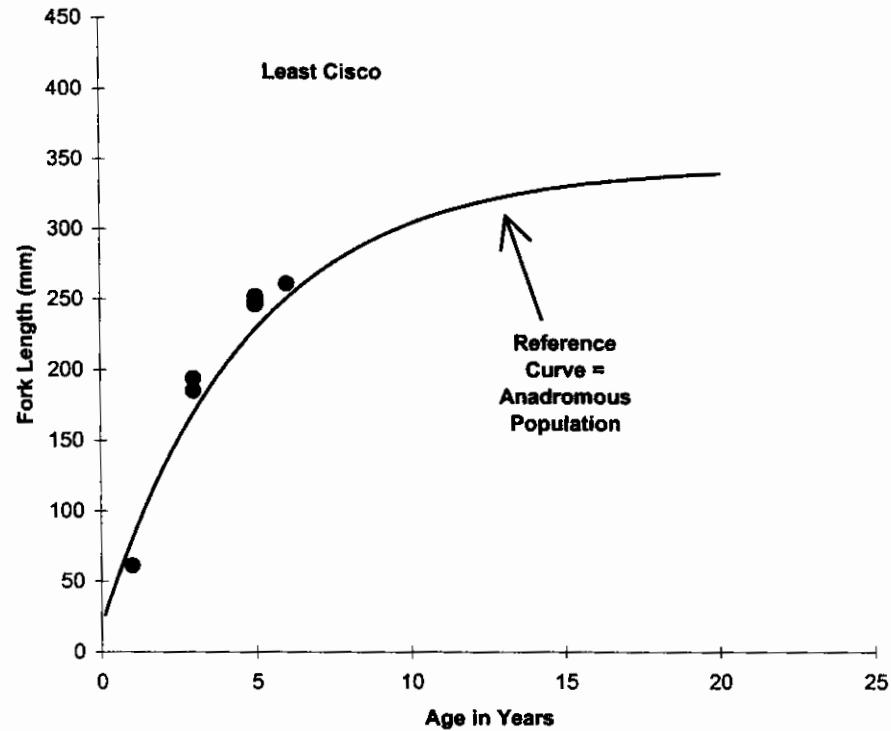
Water Quality:

| Year of Test | Chloride (mg/l) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------|-----------------|---------------|------------------|----------------|--|-------------------------------|------------|
| 1993 | 2 | 4.1 | 1.6 | 7.6 | 26 | <10 | J. Lobdell |

Catch Record:

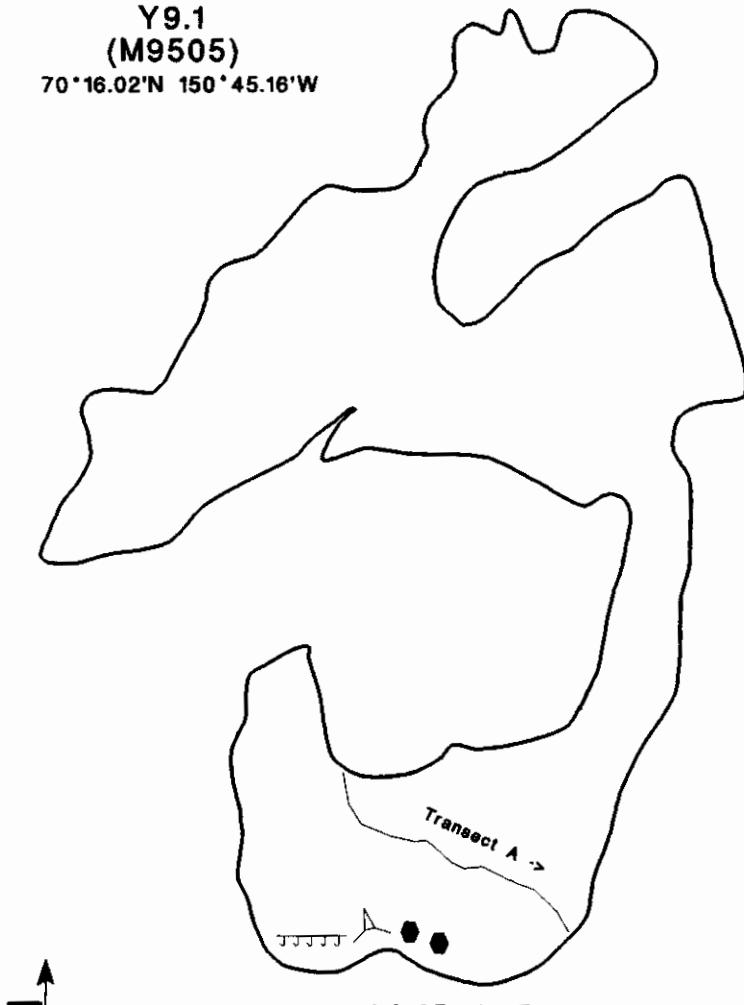
| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|-------------|-----------|----------------|-----------------------------------|---------------|------------------|
| Fyke Net | Jul 21 95 | 23.2 | Least cisco 9spine stickleback | 7 33 | 61-261 |
| Minnow Trap | Jul 21 95 | 46.1 | 9spine stickleback | 3 | |
| Set Line | Jul 21 95 | 23.0 | None | 0 | |





2-391

Y9.1
(M9505)
70°16.02'N 150°45.16'W



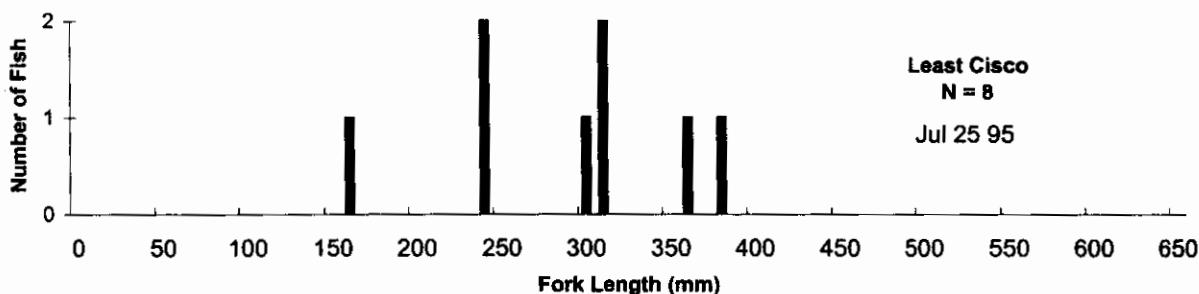
0 300 600 900 1200 1500 ft

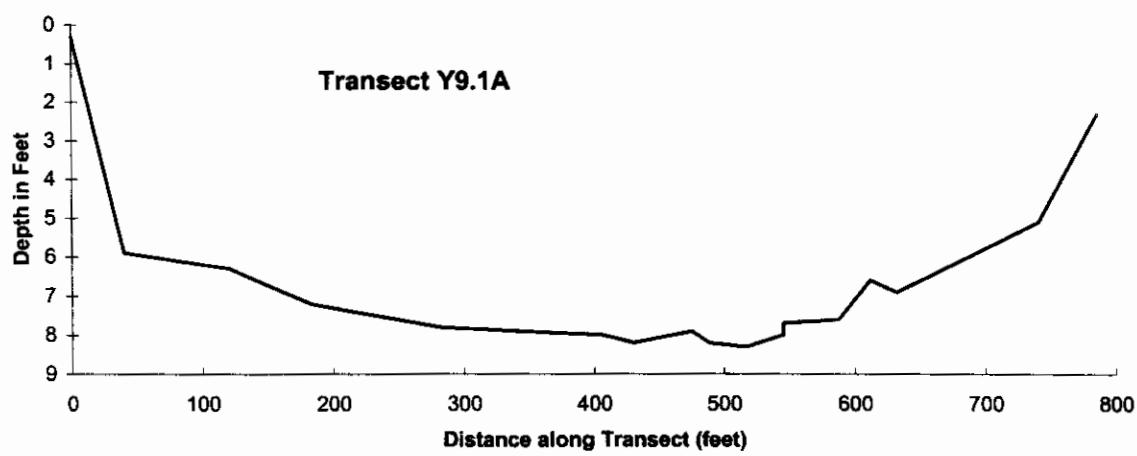
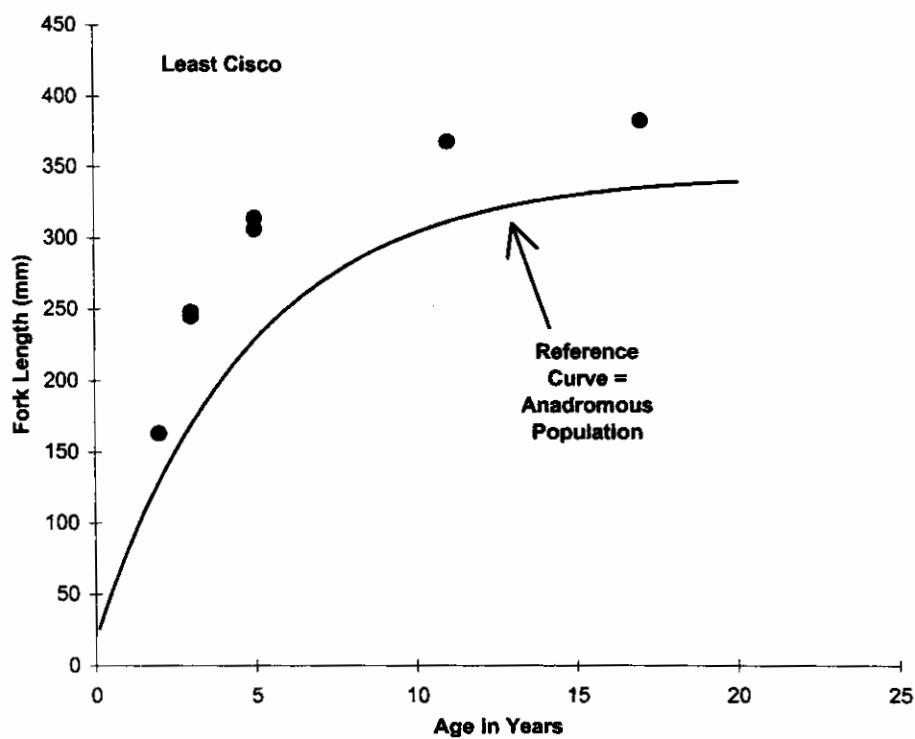
Lake Y9.1

Other Names: M9505
Location: 70°16.02'N 150°45.16'W
USGS Quad Sheet: Harrison Bay B-2: T11N R5E, Sect 36
Habitat: Perched Lake (Infrequent Flooding)
Area: 67 acres
Maximum Depth: 8.3 feet
Active Outlet: No
Spec. Conductance: 83 $\mu\text{S}/\text{cm}$
Calculated Volume: 59.8 million gallons
Permittable Volume: 1.4 million gallons

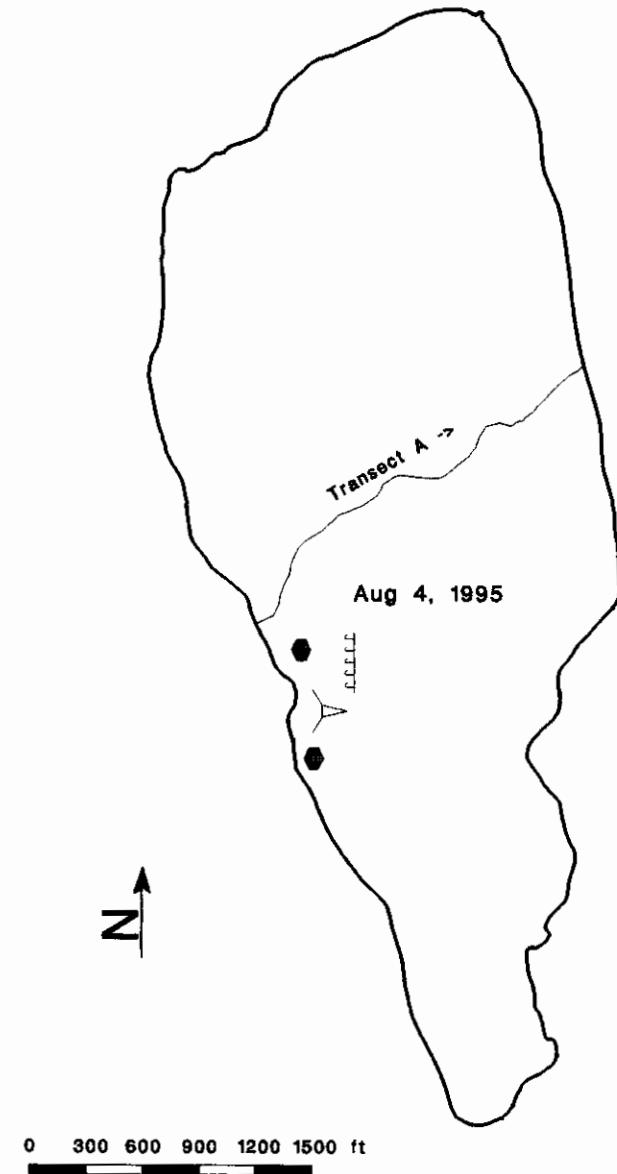
Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|-------------|-----------|-------------------|-----------------------------------|---------------|---------------------|
| Fyke Net | Jul 25 95 | 119.5 | Least cisco 9spine stickleback | 8 72 | 163-383 |
| Minnow Trap | Jul 25 95 | 239.0 | 9spine stickleback | 1 | |
| Set Line | Jul 25 95 | 120.4 | None | 0 | |





Y10.1
(M9528)
70°15.68' N 150°42.92' W

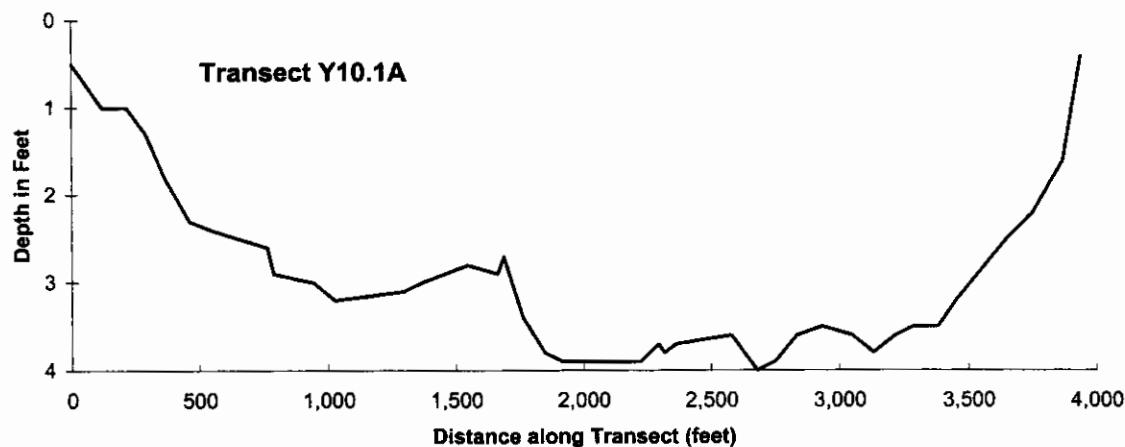


Lake Y10.1

Other Names: M9528
Location: 70°15.68'N 150°42.92'W
USGS Quad Sheet: Harrison Bay B-2: T11N R6E, Sect 31
Habitat: Tundra Lake
Area: 207 acres
Maximum Depth: 4 feet
Active Outlet: No
Spec. Conductance: 513 $\mu\text{S}/\text{cm}$
Calculated Volume: 88.9 million gallons
Permittable Volume: No fish concern

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|-------------|----------|-------------------|--------------------|---------------|
| Fyke Net | Aug 4 95 | 18.5 | 9spine stickleback | 5 |
| Minnow Trap | Aug 4 95 | 36.5 | None | 0 |
| Set Line | Aug 4 95 | 18.1 | None | 0 |

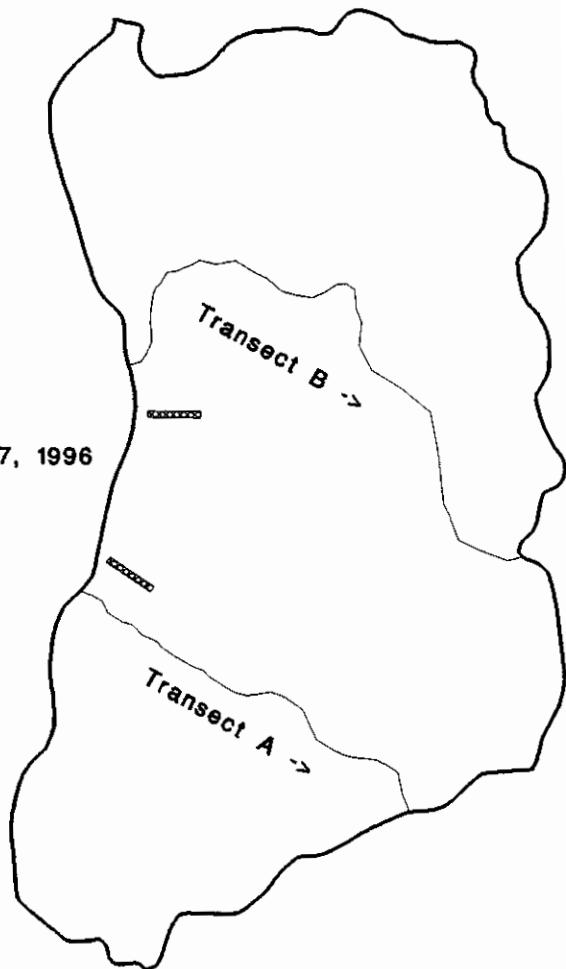


Y11.1
(M9614)
70°15.10'N 150°40.51'W

Jul 27, 1996



0 300 600 900 1200 1500 ft



Lake Y11.1

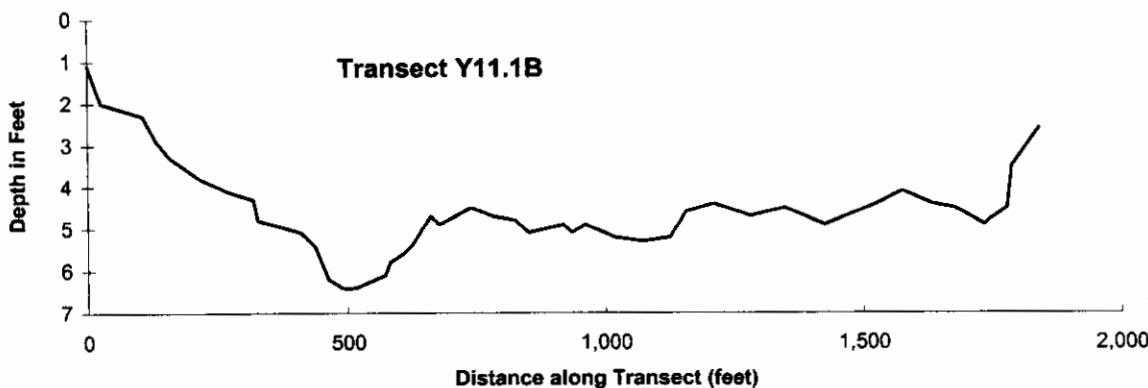
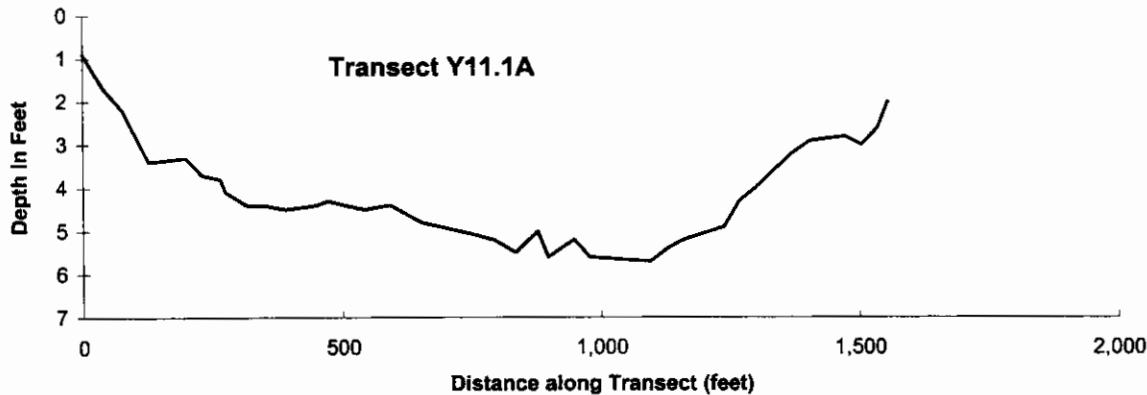
Other Names: M9614
Location: 70°15.10'N 150°40.51'W
USGS Quad Sheet: Harrison Bay A-2/B-2: T10N R6E, Sect 5
Habitat: Tundra Lake
Area: 163 acres
Maximum Depth: 6.4 feet
Active Outlet: No
Spec. Conductance: 165 $\mu\text{S}/\text{cm}$
Calculated Volume: 111.9 million gallons
Permittable Volume: No fish concern

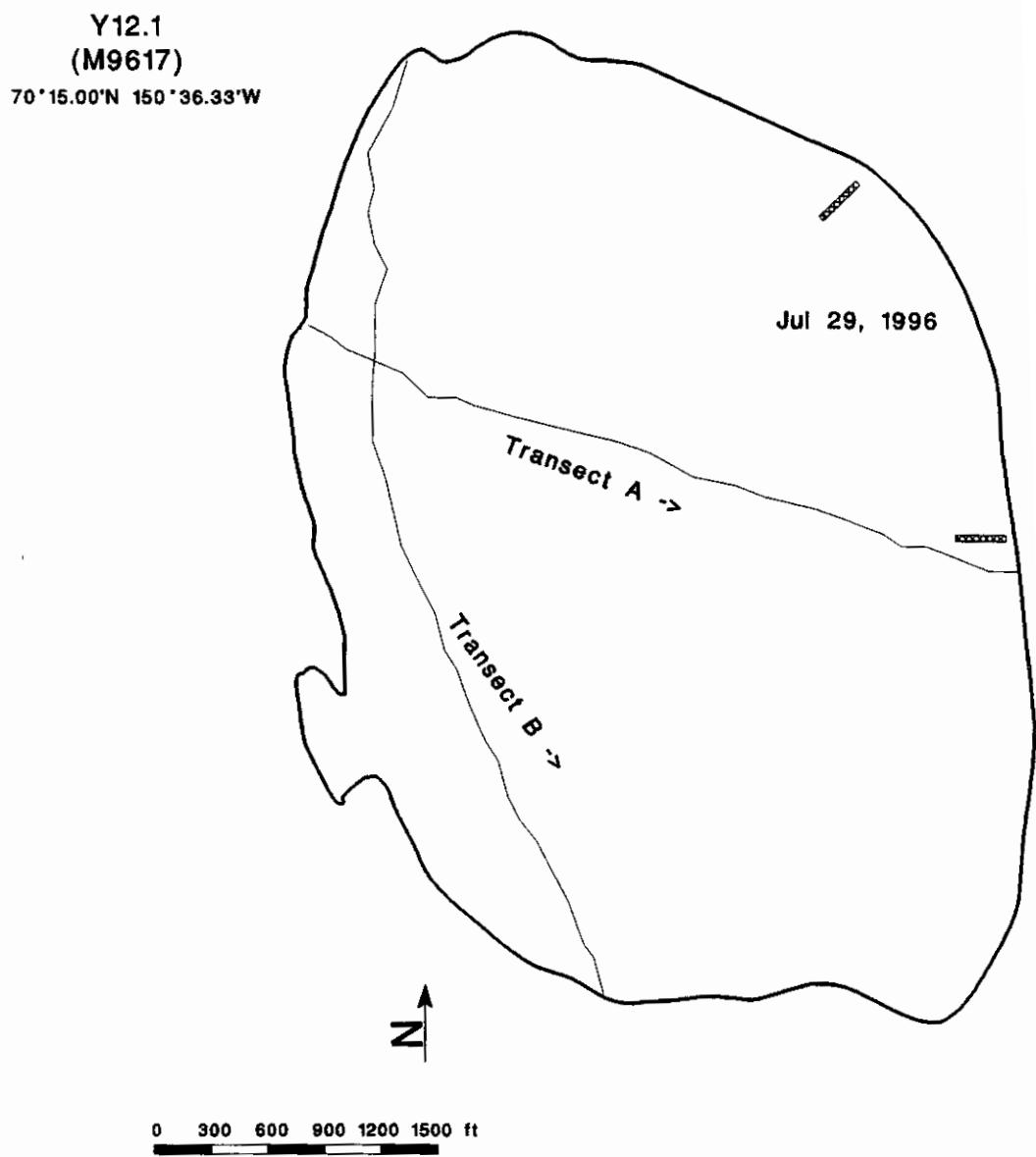
Water Quality:

| Year of Test | Chloride (mg/l) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------------|--------------------|------------------|---------------------|-------------------|---|--|------------|
| 1996 | 10.7 | 10.0 | 2.6 | 23.5 | 69.4 | 115 | J. Lobdell |

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|----------|-----------|-------------------|---------|------------------|
| Gill Net | Jul 20 95 | 12.8 | None | 0 |





Lake Y12.1

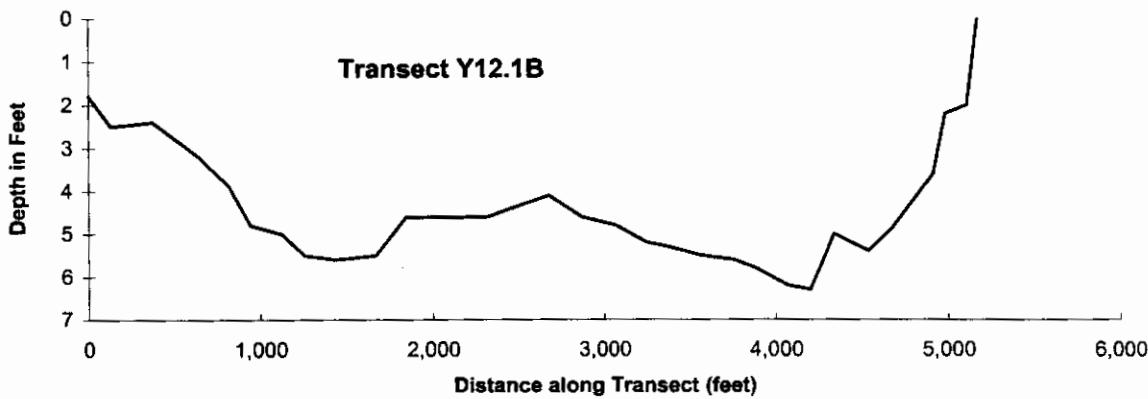
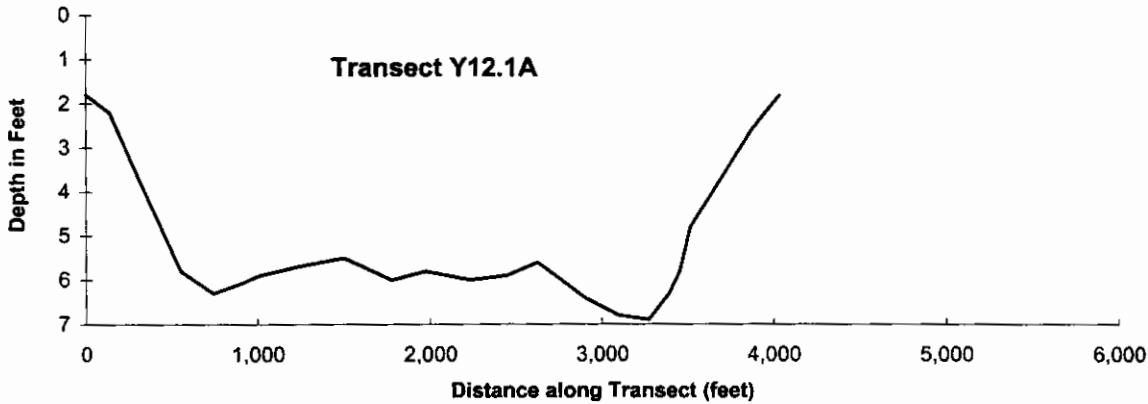
Other Names: M9617
Location: 70°15.00'N 150°36.33'W
USGS Quad Sheet: Harrison Bay A-2/B-2: T10N R6E, Sect 3, 4
Habitat: Tundra Lake
Area: 383 acres
Maximum Depth: 6.9 feet
Active Outlet: No
Spec. Conductance: $\mu\text{S}/\text{cm}$
Calculated Volume: 284.0 million gallons
Permittable Volume: No fish concern

Water Quality:

| Year of Test | Chloride (mg/l) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------------|--------------------|------------------|---------------------|-------------------|---|--|------------|
| 1996 | 6.49 | 6.7 | 2.08 | 23.7 | 67.7 | 104 | J. Lobdell |

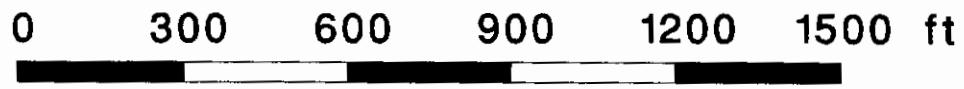
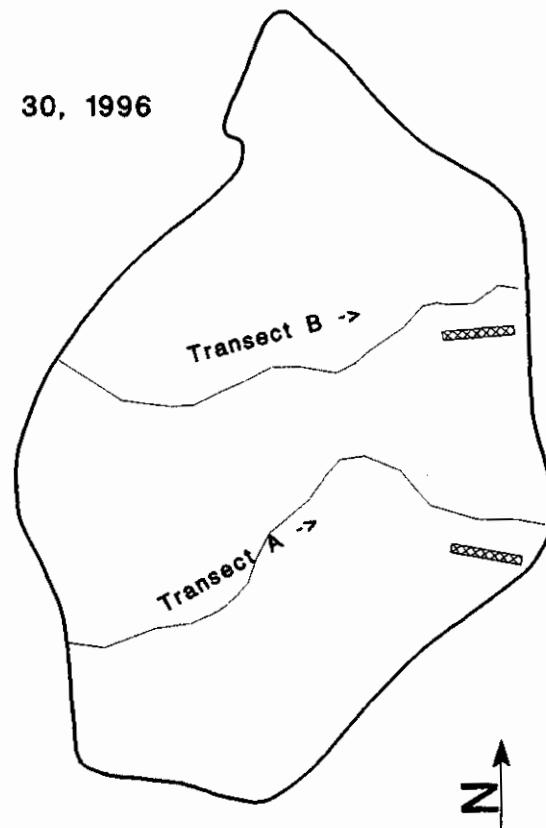
Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|----------|-----------|-------------------|---------|------------------|
| Gill Net | Jul 29 96 | 11.1 | None | 0 |



Y14.1
(M9618)
70°15.48'N 150°31.02'W

Jul 30, 1996



Lake Y14.1

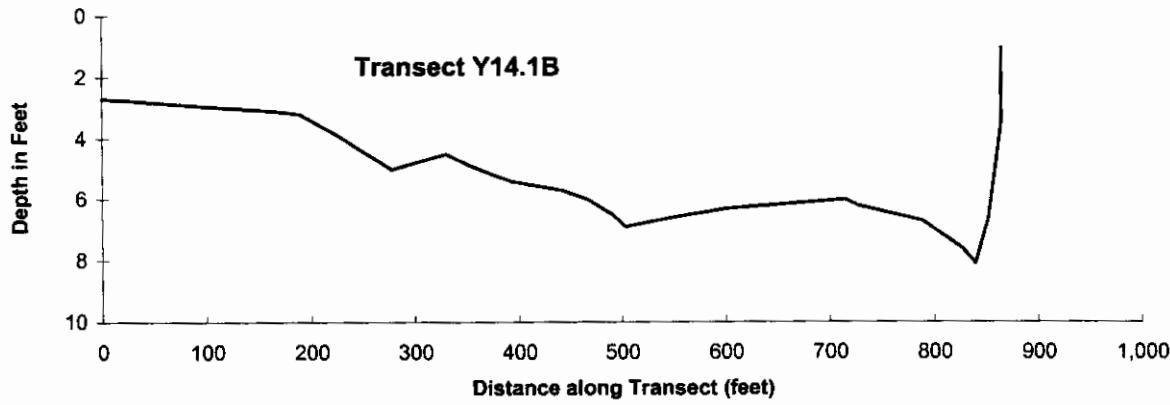
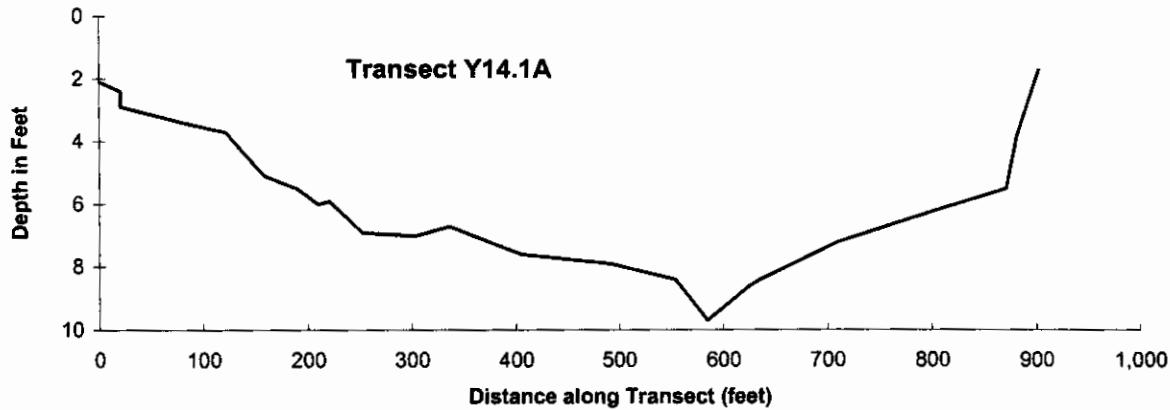
Other Names: M9618
Location: 70°15.48'N 150°31.02'W
USGS Quad Sheet: Harrison Bay B-1: T11N R6E, Sect 36
Habitat: Tundra Lake
Area: 22 acres
Maximum Depth: 9.7 feet
Active Outlet: No
Spec. Conductance: 59 $\mu\text{S}/\text{cm}$
Calculated Volume: 22.8 million gallons
Permittable Volume: No fish concern

Water Quality:

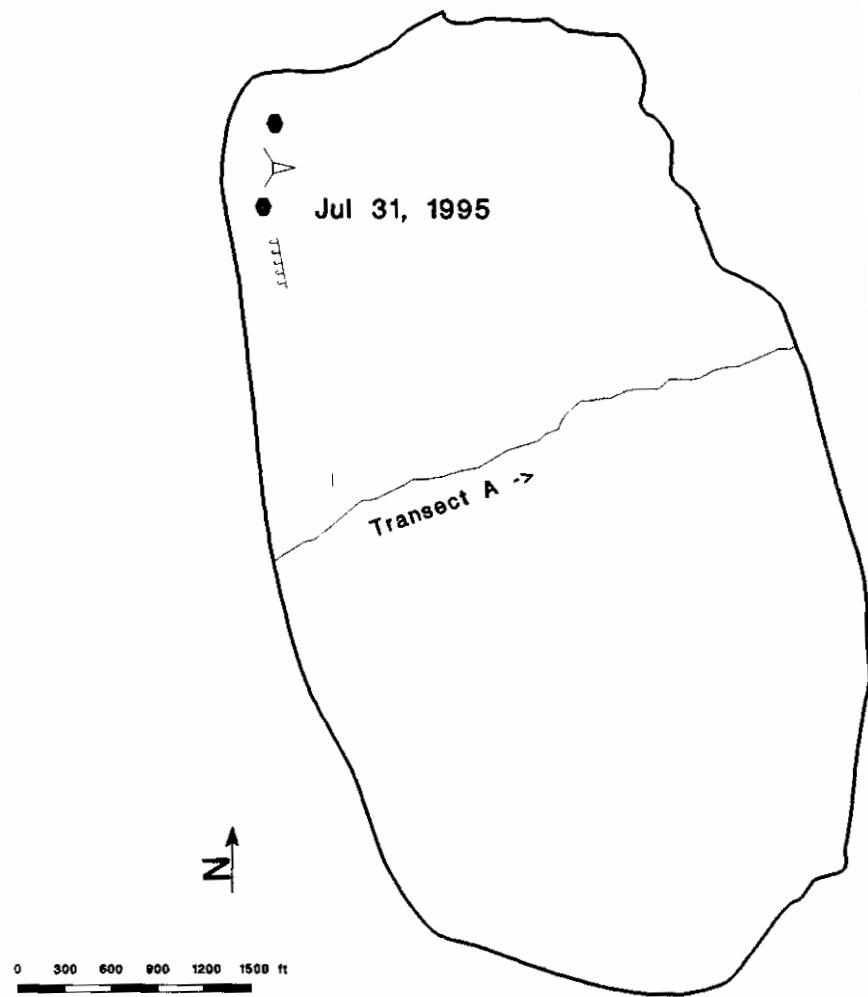
| Year of Test | Chloride (mg/l) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------------|--------------------|------------------|---------------------|-------------------|---|--|------------|
| 1996 | 3.31 | 3.2 | 0.58 | 10.6 | 28.9 | 38 | J. Lobdell |

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|----------|-----------|-------------------|---------|------------------|
| Gill Net | Jul 30 96 | 12.0 | None | 0 |



Y20.1
(L9123)
70° 15.78'N 150° 14.02'W



Lake Y20.1

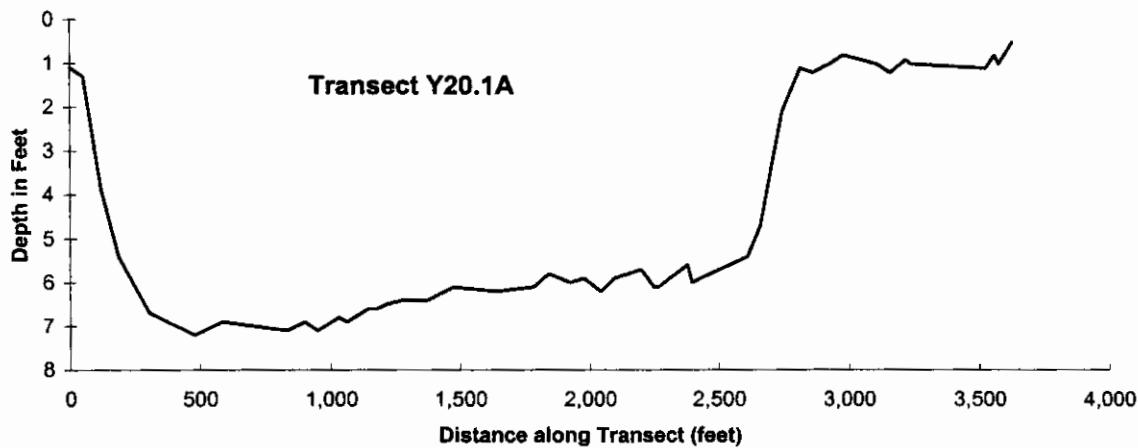
Other Names: L9123
Location: 70°15.78'N 150°14.02'W
USGS Quad Sheet: Harrison Bay B-1: T11N R7E, Sect 36
Habitat: Tundra Lake
Area: 414 acres
Maximum Depth: 7.2 feet
Active Outlet: No
Spec. Conductance: 137 $\mu\text{S}/\text{cm}$
Calculated Volume: 320.5 million gallons
Permittable Volume: No fish concern

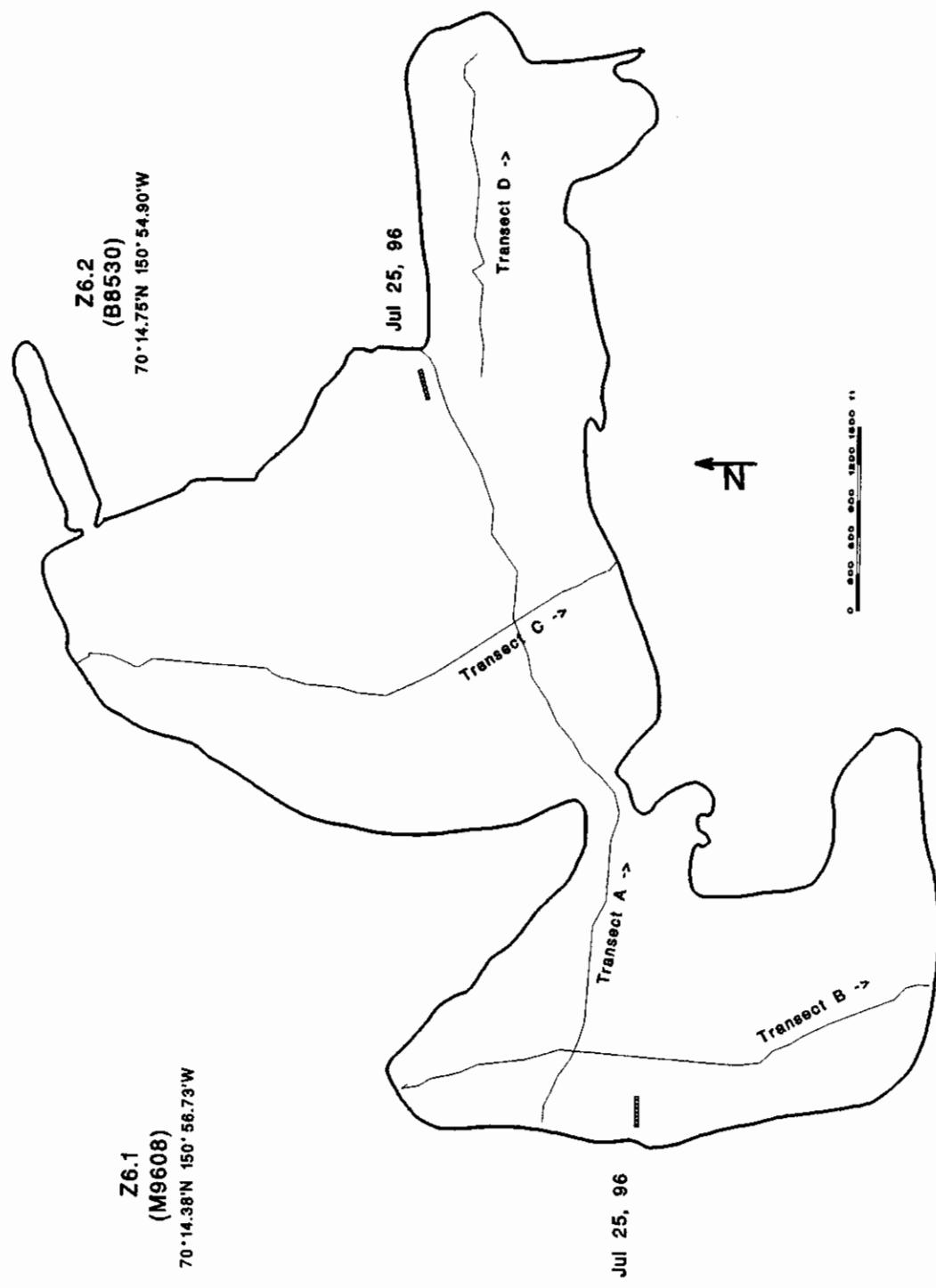
Water Quality:

| Year of Test | Chloride (mg/l) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------------|--------------------|------------------|---------------------|-------------------|---|--|------------|
| 1991 | 6 | 2.0 | 1.3 | 19 | 53 | 88 | J. Lobdell |

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|-------------|-----------|-------------------|---------|------------------|
| Fyke Net | Jul 31 95 | 22.4 | None | 0 |
| Minnow Trap | Jul 31 95 | 44.7 | None | 0 |
| Set Line | Jul 31 95 | 22.1 | None | 0 |



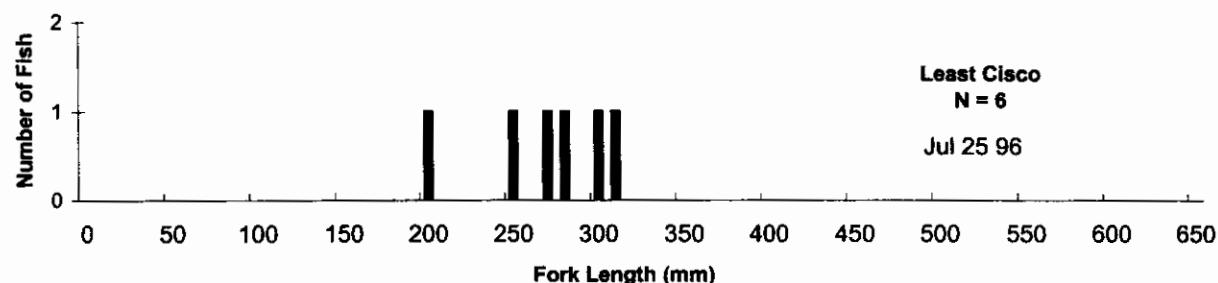
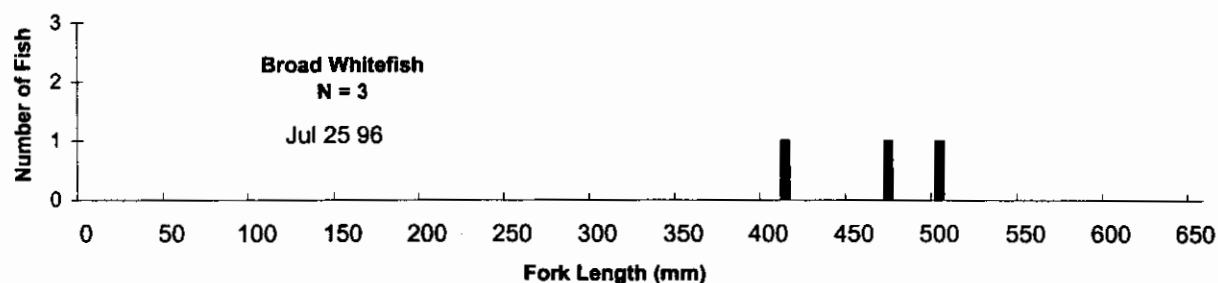


Lake Z6.1

Other Names: M9608 (connected to B8530)
Location: 70°14.38'N 151°56.73'W
USGS Quad Sheet: Harrison Bay A-1/B-2: T10N R5E, Sect 5
Habitat: Perched Lake (Frequent Flooding)
Area: 185 acres
Maximum Depth: 11.5 feet
Active Outlet: No
Spec. Conductance: $\mu\text{S}/\text{cm}$
Calculated Volume: 228.3 million gallons
Permittable Volume: 13.4 million gallons

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|----------|-----------|-------------------|-----------------|---------------|---------------------|
| Gill Net | Jul 25 96 | 2.6 | Broad whitefish | 4 | 414-508 |
| | | | Least cisco | 7 | 203-315 |



Lake Z6.2

Other Names: B8530
Location: 70°14.75'N 150°55.07'W
USGS Quad Sheet: Harrison Bay B-2: T10N R5E, Sect 5
Habitat: Perched Lake (Frequent Flooding)
Area: 549 acres
Maximum Depth: 15.4 feet
Active Outlet: No
Spec. Conductance: 57 µS/cm (1985)
pH: 7.5 (1985)
7.6-7.7 (1997)
Calculated Volume: 908.5 million gallons
Permittable Volume: 74.3 million gallons

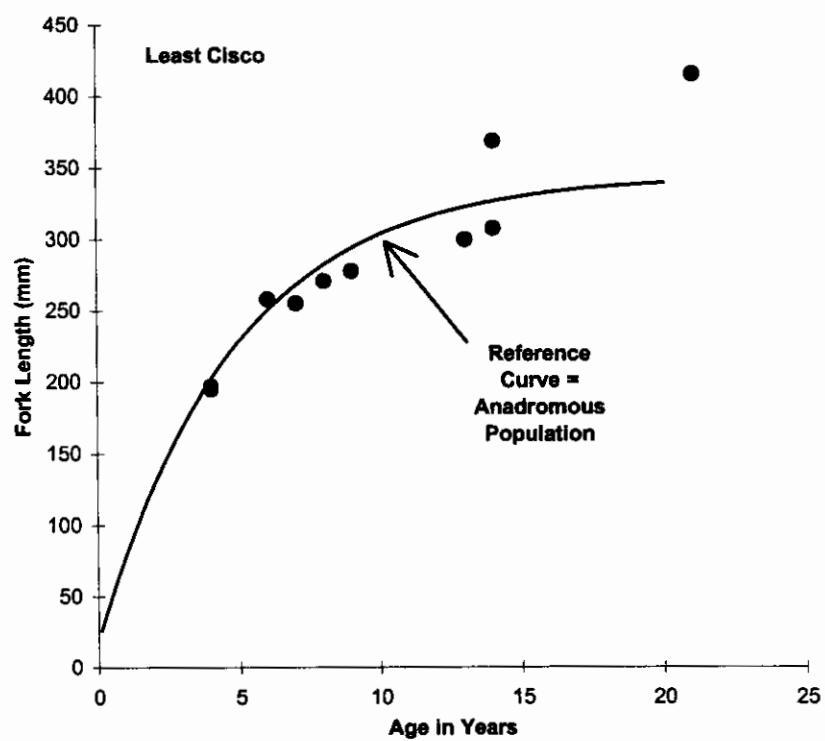
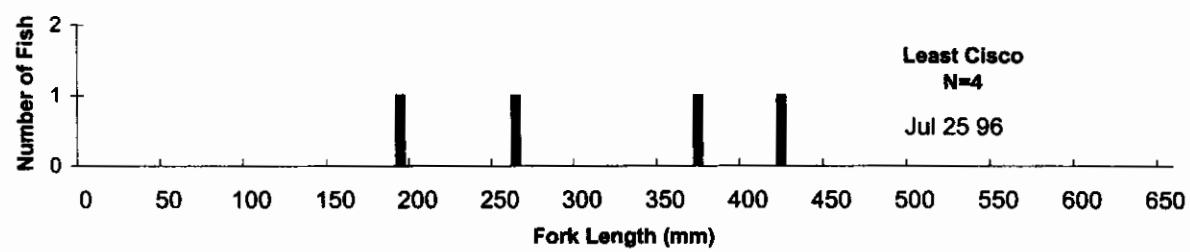
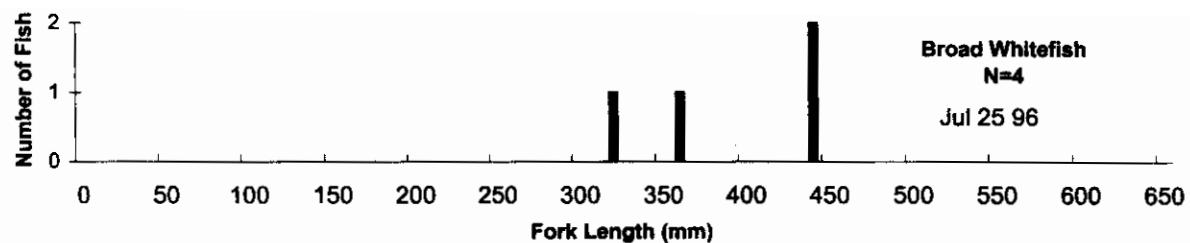
Water Quality:

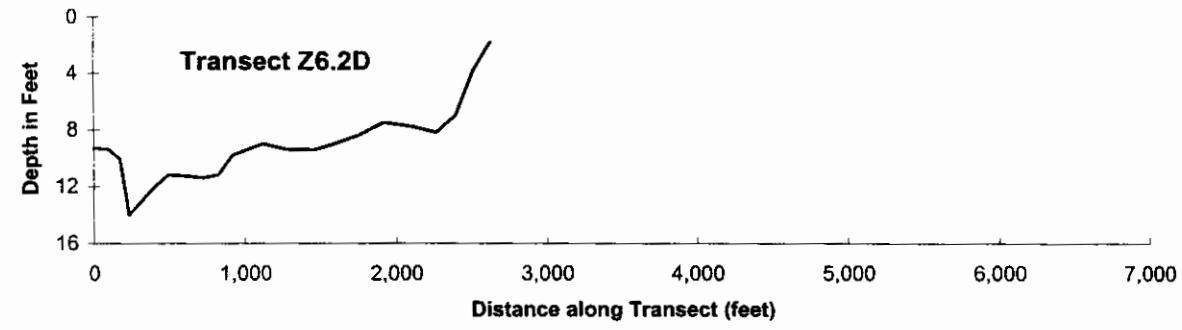
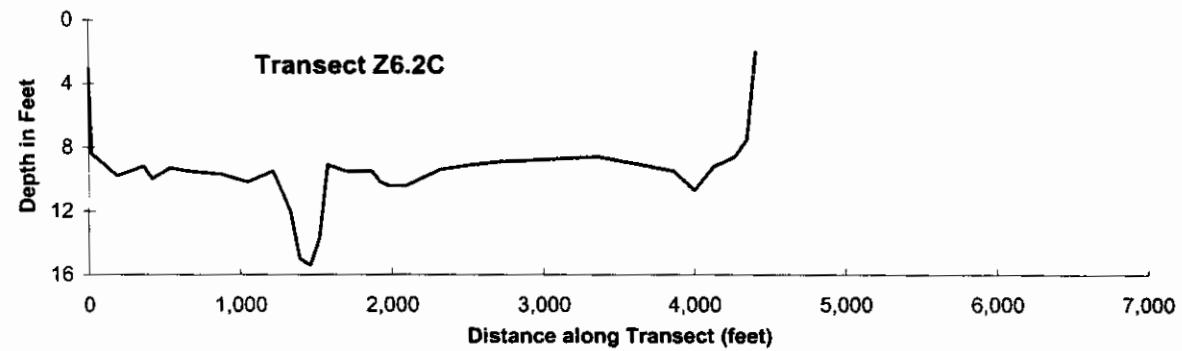
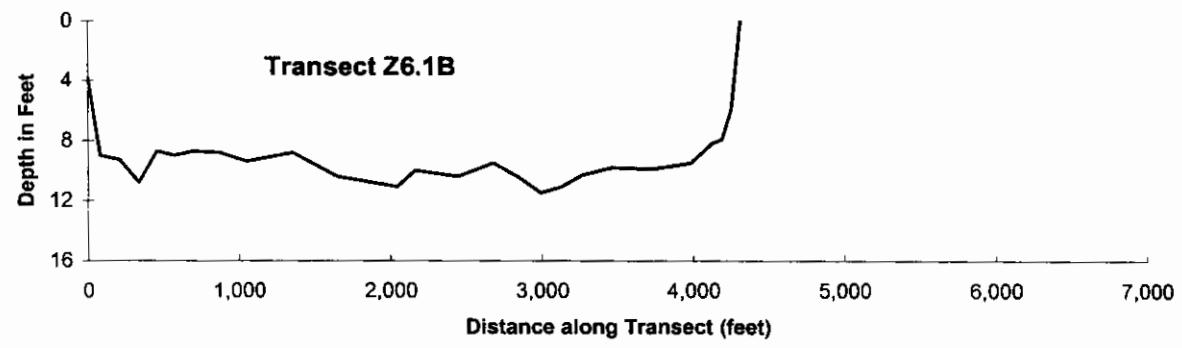
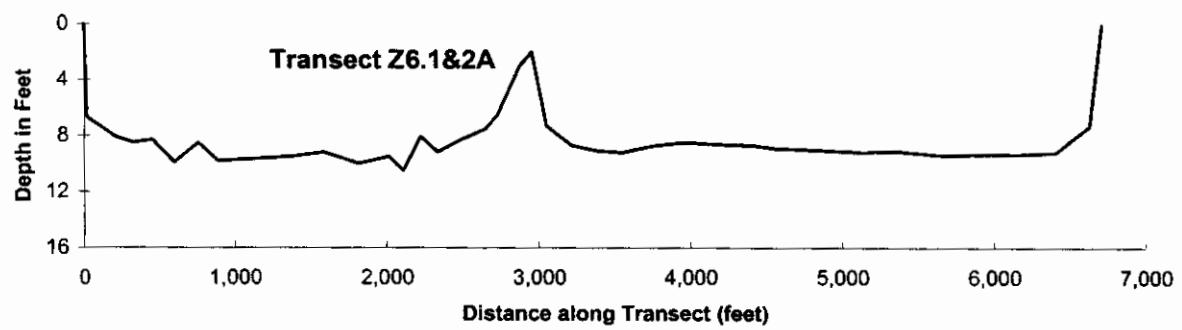
| Year of Test | Chloride (mg/l) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------|-----------------|---------------|------------------|----------------|--|-------------------------------|---------------------|
| 1985 | | | | | 34 | | Bendock & Burr 1986 |
| 1996 | 17.6 | 6.1 | 2.86 | 12.2 | 42.2 | 41 | J. Lobdell |

Catch Record:

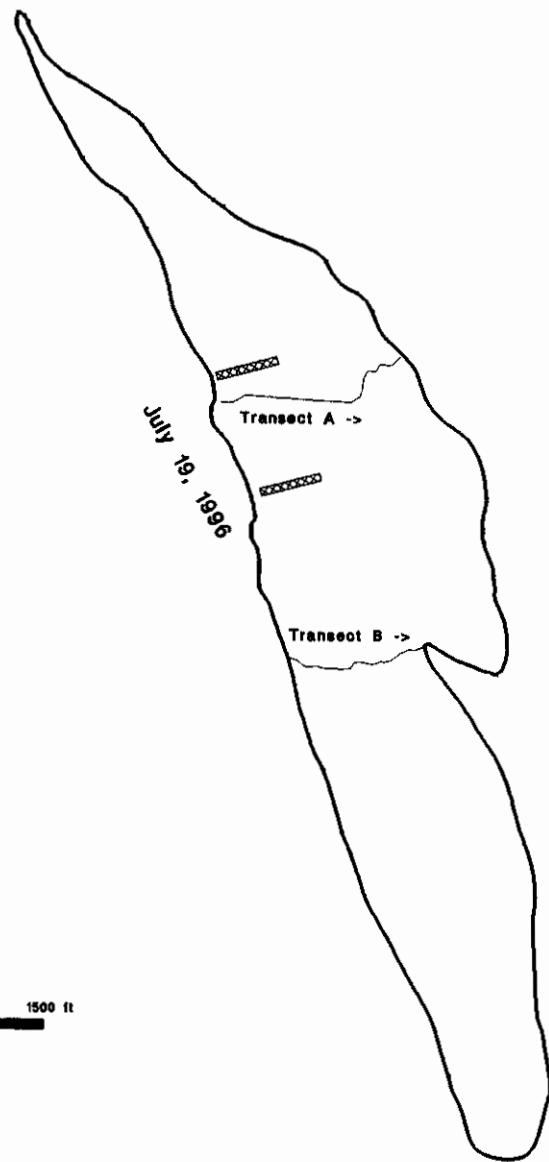
| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|----------|-----------------|----------------|--|---------------|------------------|
| Gill Net | Jul 16-19, 1985 | ~24 | Broad whitefish Humpback whitefish Least cisco 9spine stickleback | ? | |
| Gill Net | Jul 25 96 | 2.5 | Broad whitefish Least cisco Alaska blackfish | 4 5 6 | 323-442 194-425 |

Source of 1985 data: Bendock and Burr 1986





Z7.1
(M9607)
70°15.00'N 150°52.35'W



Lake Z7.1

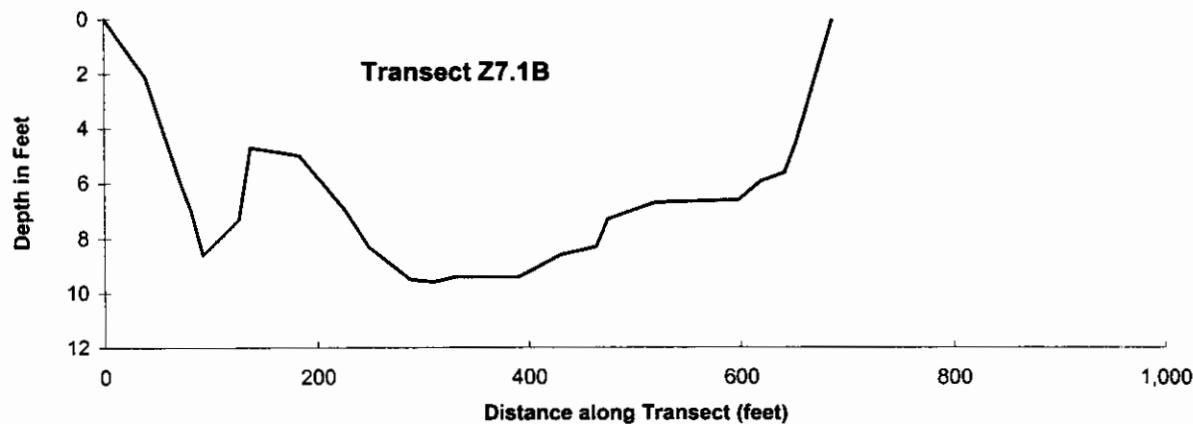
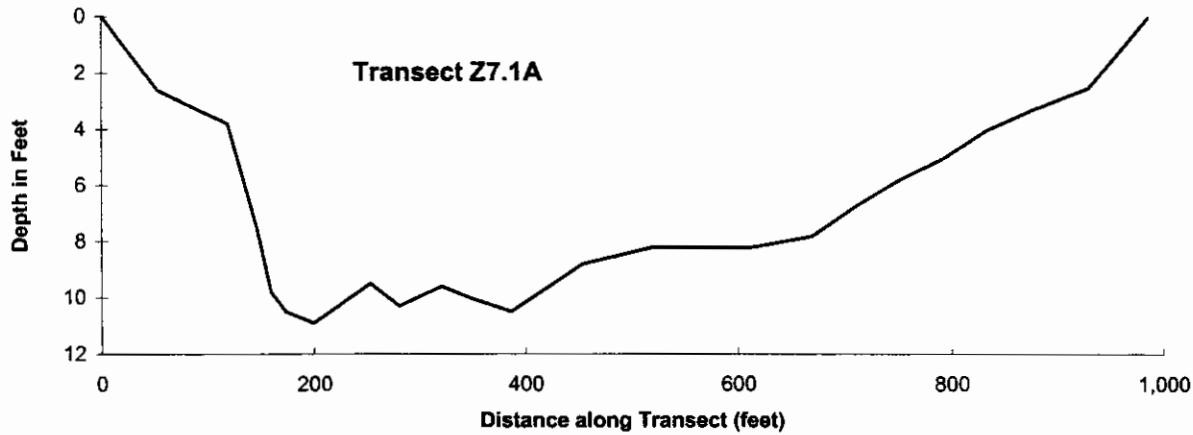
Other Names: M9607
Location: 70°15.00'N 150°52.35'W
USGS Quad Sheet: Harrison Bay A-2/B-2: T10N R5E, Sect 4
Habitat: Perched Lake (Infrequent Flooding)
Area: 97 acres
Maximum Depth: 10.9 feet
Active Outlet: No
Spec. Conductance: 124 $\mu\text{S}/\text{cm}$
pH: 7.6-7.9
Calculated Volume: 114.2 million gallons
Permittable Volume: 6.1 million gallons

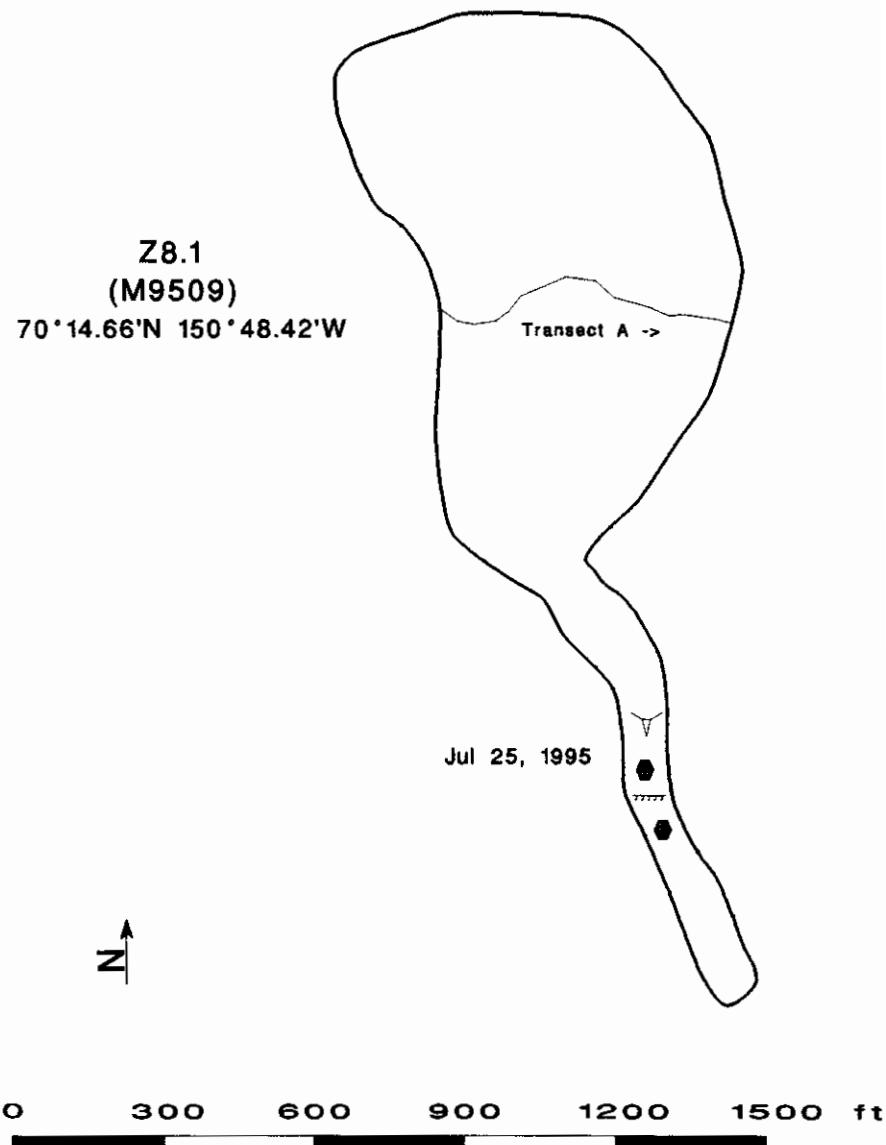
Water Quality:

| Year of Test | Chloride (mg/l) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------|-----------------|---------------|------------------|----------------|--|-------------------------------|------------|
| 1996 | 8.3 | 10.1 | 4.9 | 15.4 | 58.6 | 79 | J. Lobdell |

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|----------|-----------|----------------|--------------------------------|---------------|------------------|
| Gill Net | Jul 19 96 | 11.8 | Broad whitefish Least cisco | 1 1 | 315 278 |



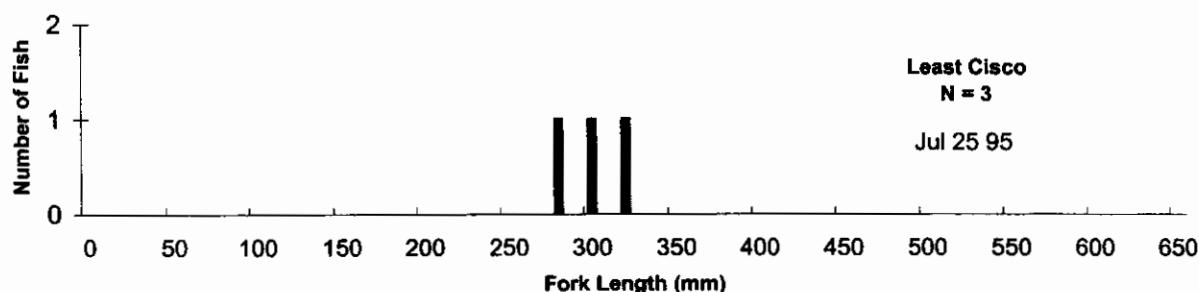
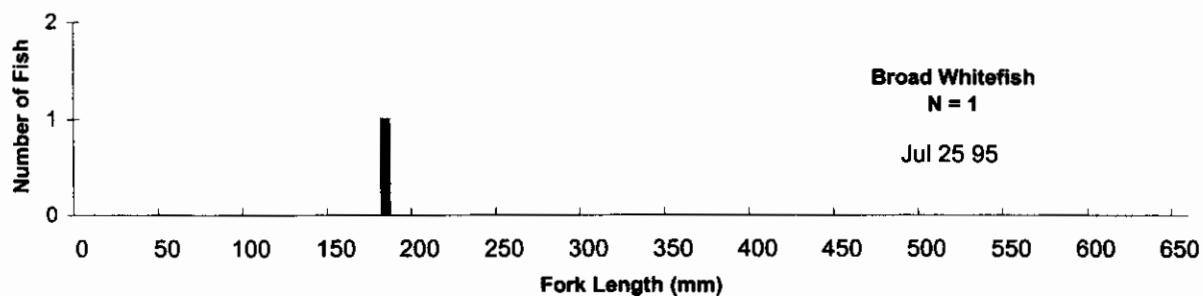


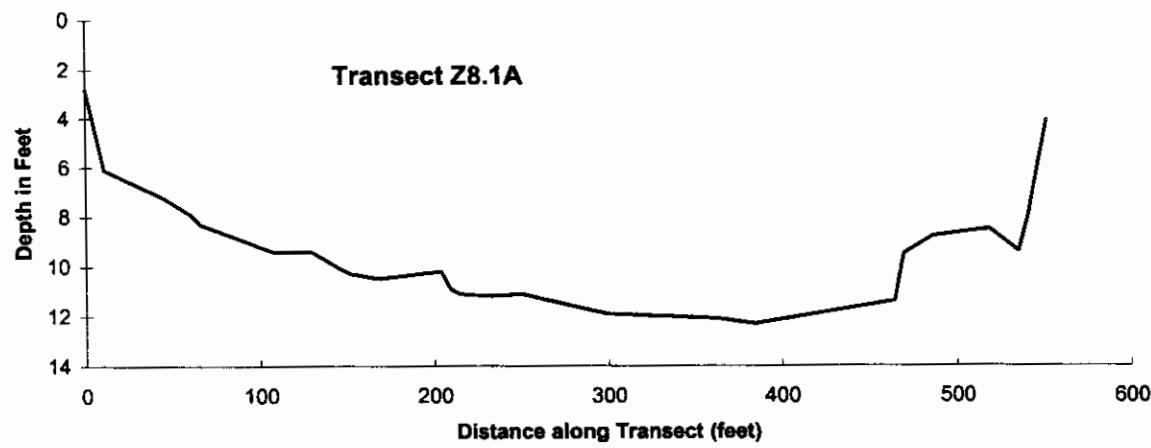
Lake Z8.1

Other Names: M9509
Location: 70°14.66'N 150°48.42'W
USGS Quad Sheet: Harrison Bay B-2: T10N R5E, Sect 2
Habitat: Perched Lake (Infrequent Flooding)
Area: 13 acres
Maximum Depth: 12.3 feet
Active Outlet: No
Spec. Conductance: 129 $\mu\text{S}/\text{cm}$
Calculated Volume: 17.8 million gallons
Permittable Volume: 1.2 million gallons

Catch Record:

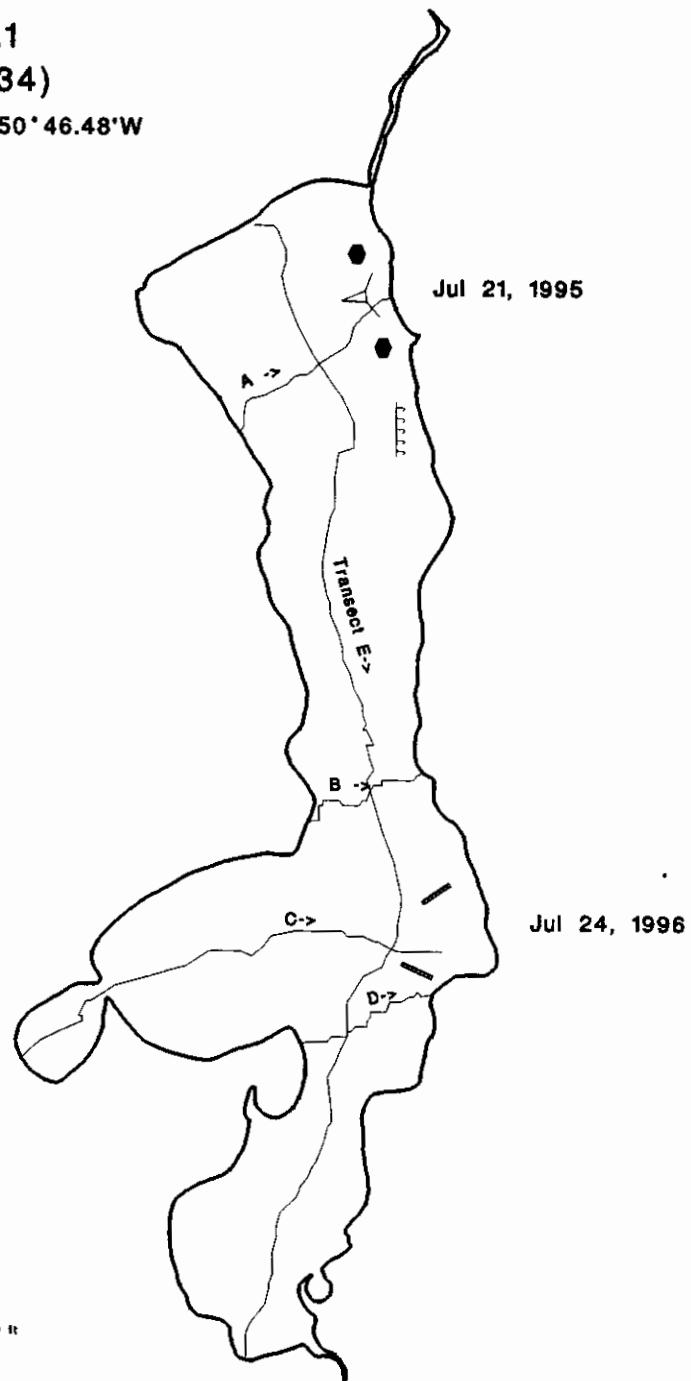
| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|-------------|-----------|-------------------|--------------------|---------------|---------------------|
| Fyke Net | Jul 25 95 | 94.8 | Broad whitefish | 1 | 181 |
| | | | Least cisco | 3 | 288-320 |
| | | | Longnose sucker | 2 | 225, 364 |
| | | | 9spine stickleback | 385 | |
| Minnow Trap | Jul 25 95 | 191.7 | None | 0 | |
| Set Line | Jul 25 95 | 95.9 | None | 0 | |





Z9.1
(L9334)

70°15.27'N 150°46.48'W



0 300 600 900 1200 1500 ft

Lake Z9.1

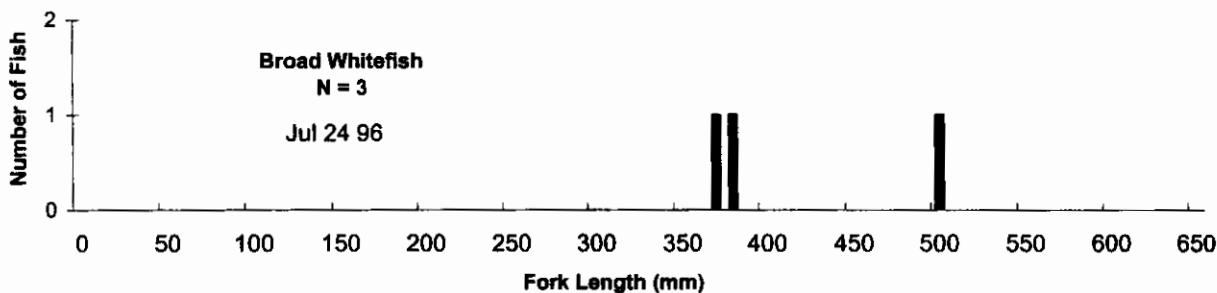
Other Names: L9334
Location: 70°15.27'N 150°46.48'W
USGS Quad Sheet: Harrison Bay B-2: T10N R5E, Sect 1, 2
Habitat: Drainage Lake
Area: 515 acres
Maximum Depth: 22.0 feet
Active Outlet: Yes
Spec. Conductance: 143 $\mu\text{S}/\text{cm}$
pH: 7.9-8.0
Calculated Volume: 1,217.7 million gallons
Permittable Volume: 124.5 million gallons

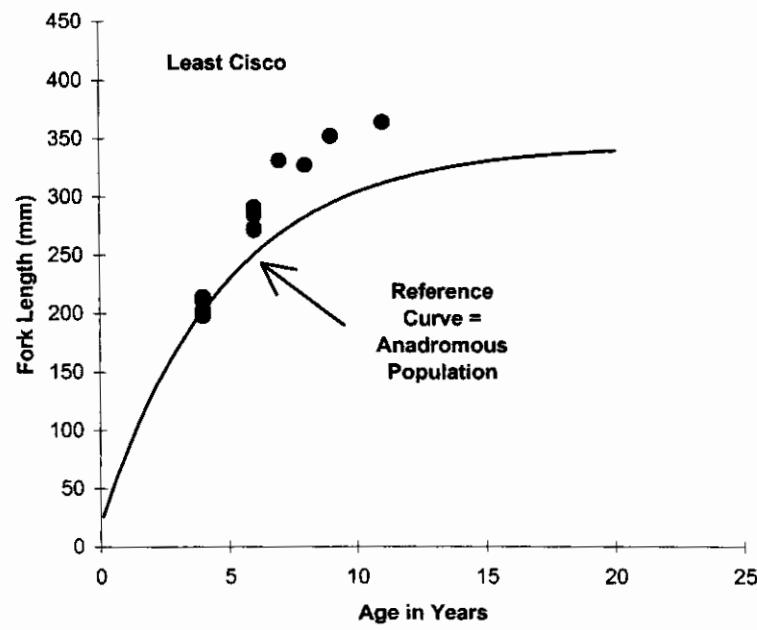
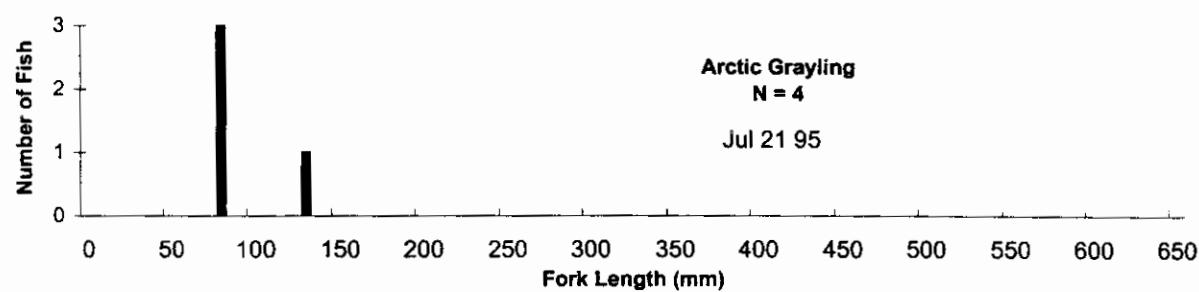
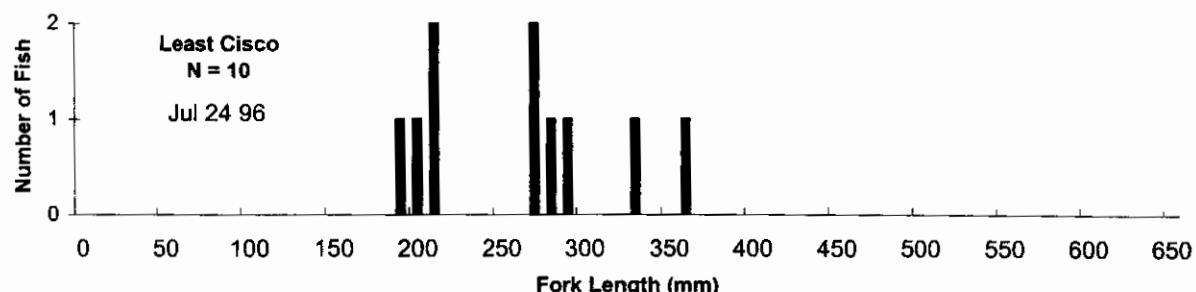
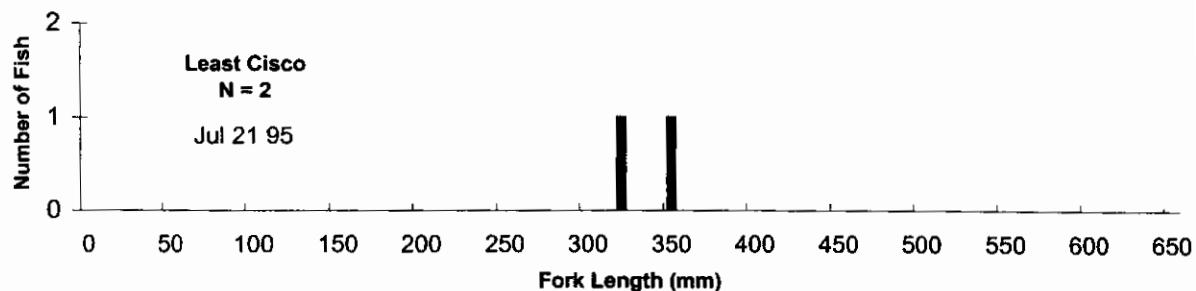
Water Quality:

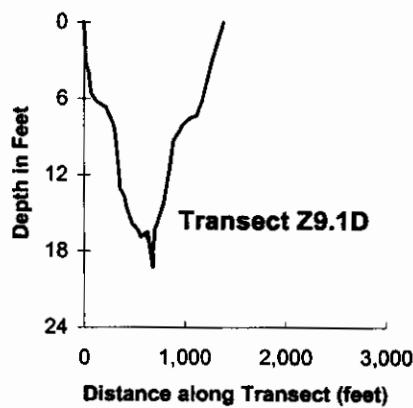
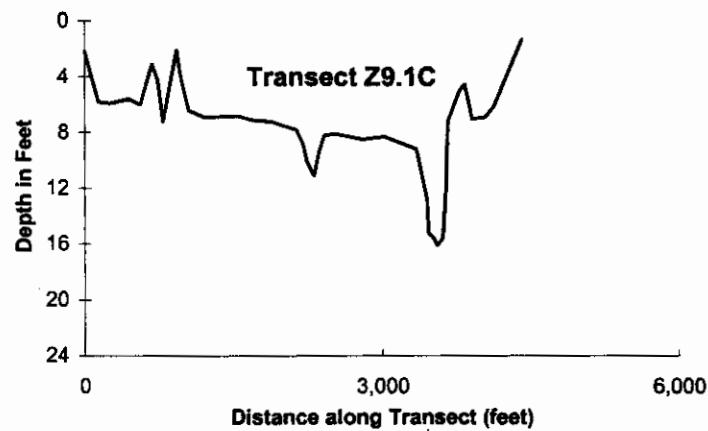
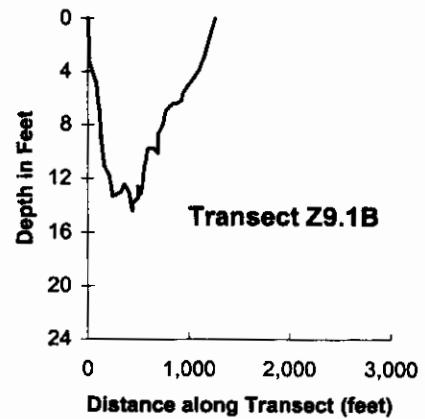
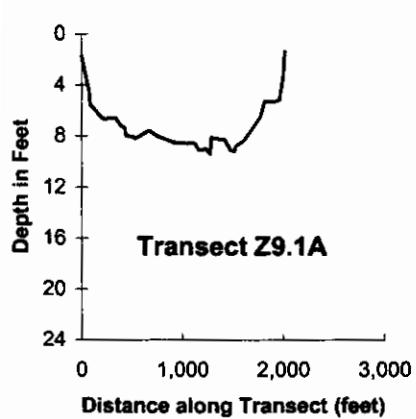
| Year of Test | Chloride (mg/l) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------|-----------------|---------------|------------------|----------------|--|-------------------------------|------------|
| 1993 | 2 | 1.8 | 1.5 | 9 | 29 | 27 | J. Lobdell |

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|-------------|-----------|----------------|--------------------|---------------|------------------|
| Fyke Net | Jul 21 95 | 24.2 | Arctic grayling | 4 | 84-133 |
| | | | Least cisco | 2 | 327, 352 |
| | | | Humpback whitefish | 2 | 331, 350 |
| | | | 9spine stickleback | 62 | |
| Minnow Trap | Jul 21 95 | 47.7 | None | 0 | |
| Set Line | Jul 21 95 | 24.1 | None | 0 | |
| Gill Net | Jul 24 96 | 11.3 | Broad whitefish | 3 | 374-503 |
| | | | Round whitefish | 1 | 320 |
| | | | Least cisco | 10 | 198-364 |

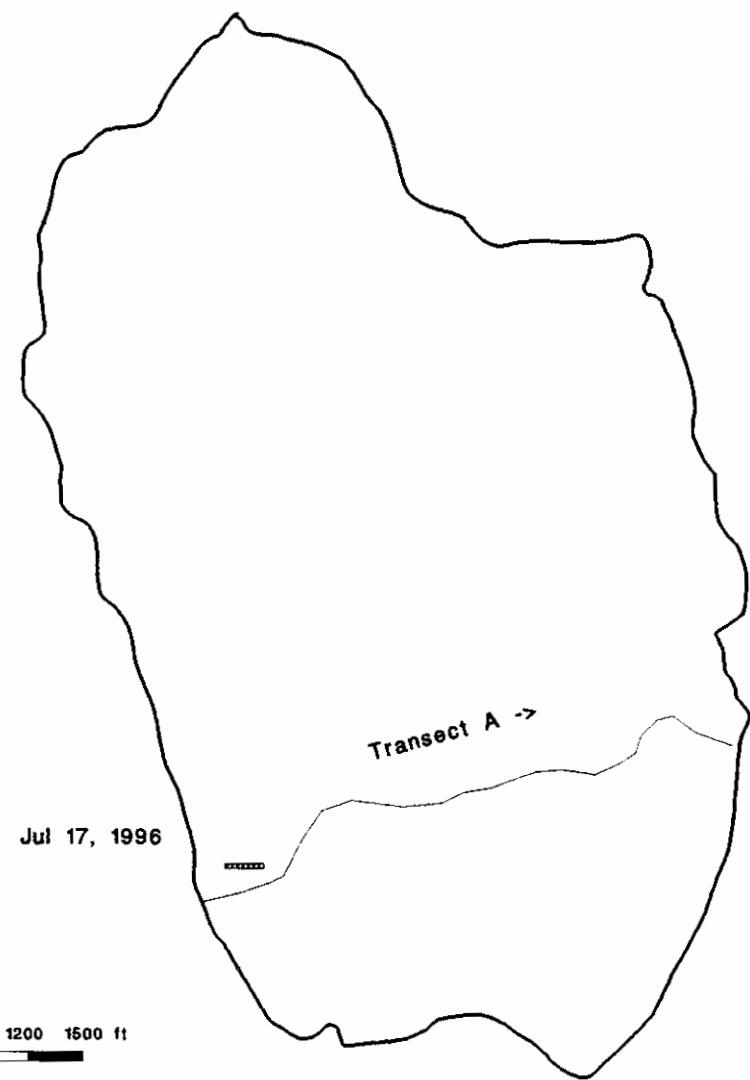






Z10.1
(M9601)

70°14.18'N 150°42.76'W



Lake Z10.1

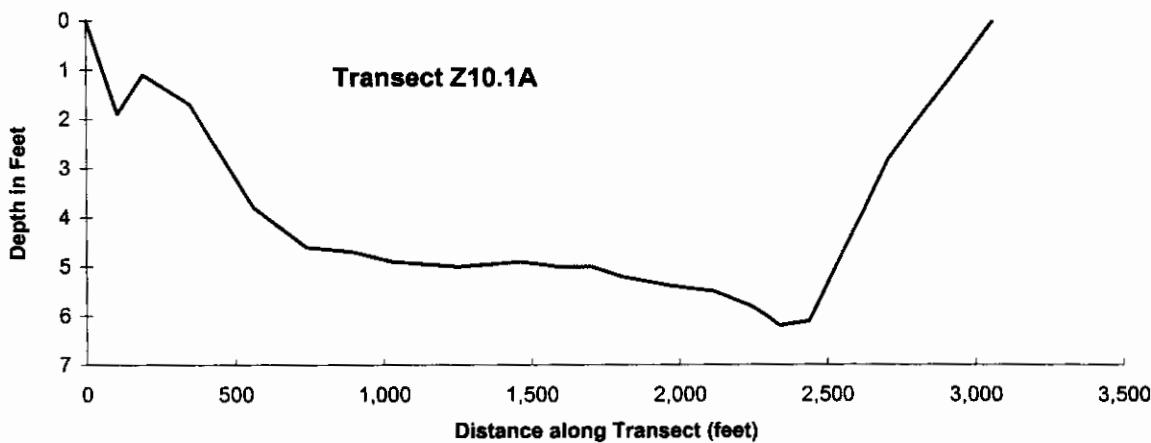
Other Names: M9601
Location: 70°14.18'N 150°42.76'W
USGS Quad Sheet: Harrison Bay A-2: T10N R6E, Sect 7
Habitat: Tundra Lake
Area: 361 acres
Maximum Depth: 6.2 feet
Active Outlet: No
Spec. Conductance: 181 $\mu\text{S}/\text{cm}$
pH: 7.9
Calculated Volume: 240.5 million gallons
Permittable Volume: No fish concern

Water Quality:

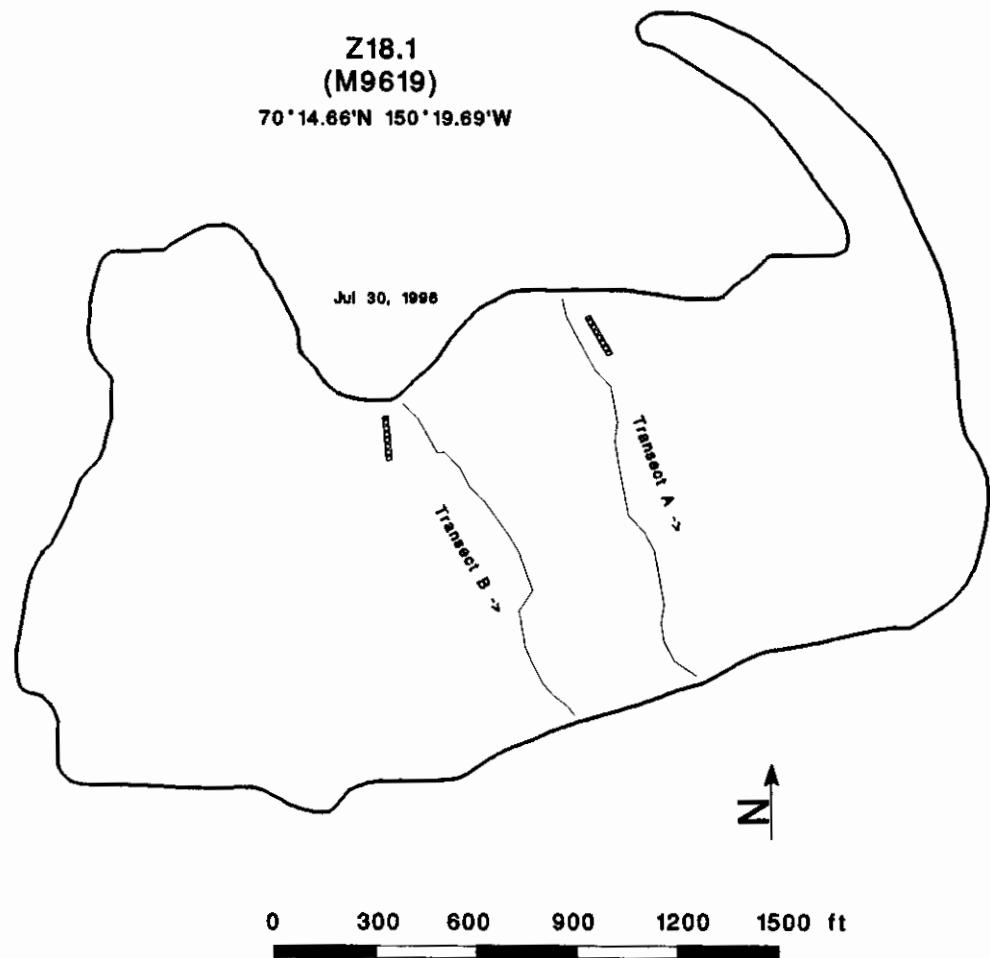
| Year of Test | Chloride (mg/l) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------------|--------------------|------------------|---------------------|-------------------|---|--|------------|
| 1996 | 11.4 | 9.8 | 2.71 | 37.8 | 105 | 132 | J. Lobdell |

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|----------|-----------|-------------------|---------|------------------|
| Gill Net | Jul 17 96 | 4.1 | None | 0 |



Z18.1
(M9619)
70°14.66'N 150°19.69'W



Lake Z18.1

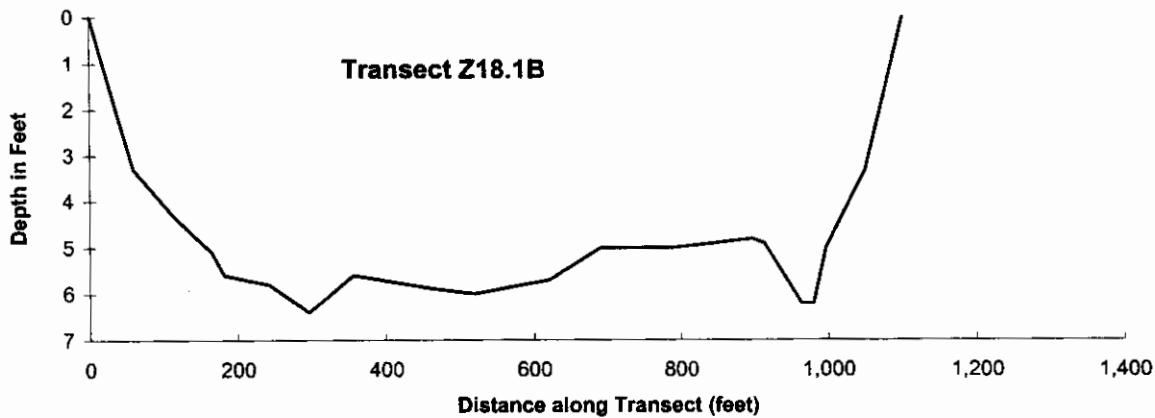
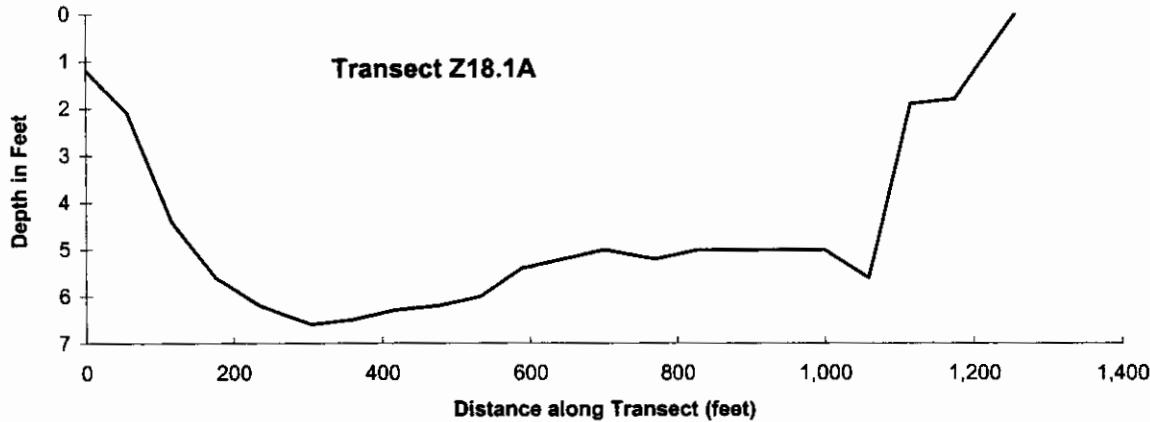
Other Names: M9619
Location: 70°14.66'N 150°19.69'W
USGS Quad Sheet: Harrison Bay A-1: T10N R7E, Sect 3
Habitat: Tundra Lake
Area: 88 acres
Maximum Depth: 6.6 feet
Active Outlet: No
Calculated Volume: 62.6 million gallons
Permittable Volume: No fish concern

Water Quality:

| Year of Test | Chloride (mg/l) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------------|--------------------|------------------|---------------------|-------------------|---|--|------------|
| 1996 | 43 | 21.5 | 5.66 | 39 | 121 | 208 | J. Lobdell |

Catch Record:

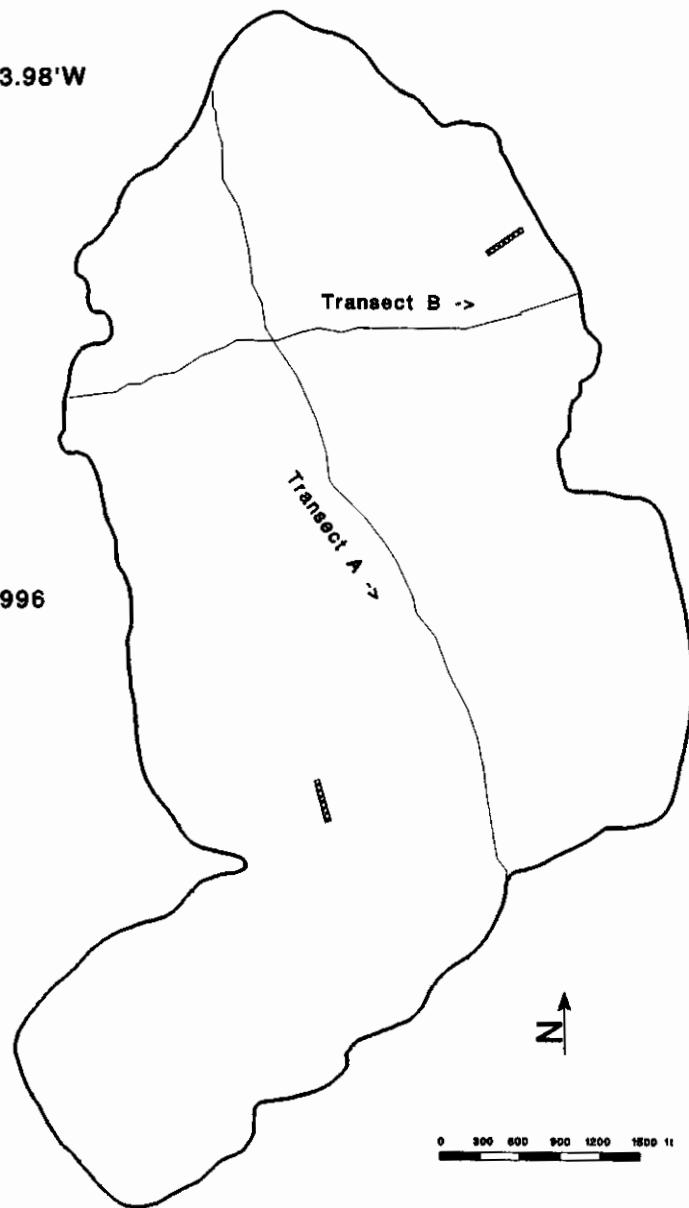
| Gear | Date | Effort (hours) | Species | Number Caught |
|----------|-----------|-------------------|---------|------------------|
| Gill Net | Jul 30 96 | 11.2 | None | 0 |



AA10.1
(M9602)

70°13.36'N 150°43.98'W

Jul 26, 1996



Lake AA10.1

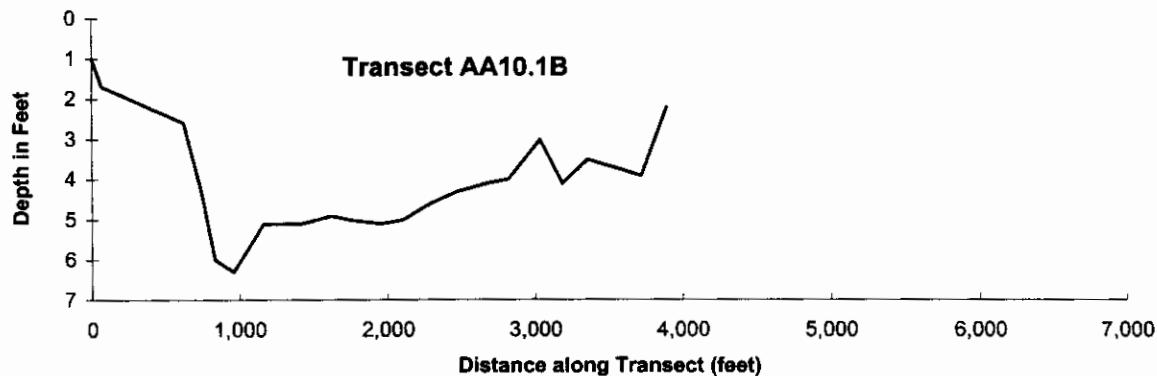
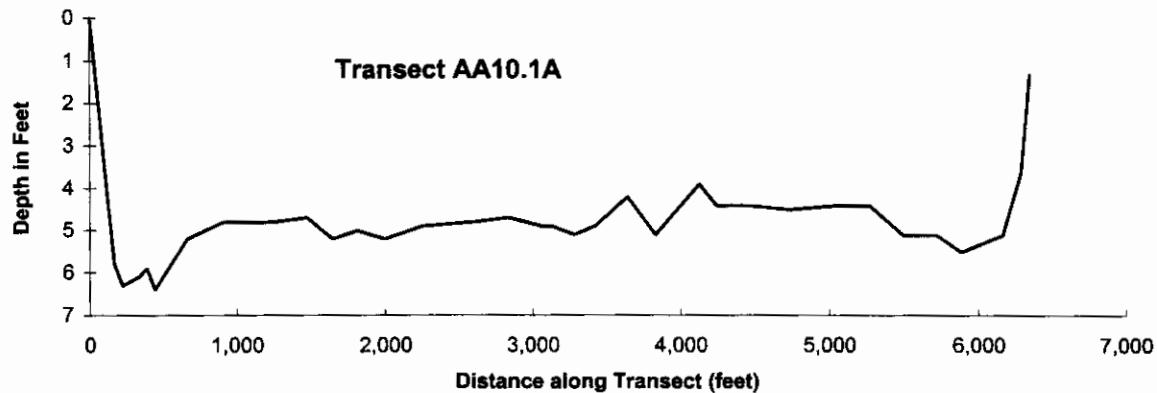
Other Names: M9602
Location: 70°13.36'N 150°43.98'W
USGS Quad Sheet: Harrison Bay A-2: T10N R5E, Sect 13
Habitat: Tundra Lake
Area: 604 acres
Maximum Depth: 6.4 feet
Active Outlet: No
Spec. Conductance: $\mu\text{S}/\text{cm}$
pH: 8.0
Calculated Volume: 415.9 million gallons
Permittable Volume: No fish concern

Water Quality:

| Year of Test | Chloride (mg/l) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------------|--------------------|------------------|---------------------|-------------------|---|--|------------|
| 1996 | 15.9 | 13.5 | 2.85 | 31.5 | 90.4 | 150 | J. Lobdell |

Catch Record:

| Gear | Date | Effort | | Number Caught |
|----------|-----------|---------|---------|------------------|
| | | (hours) | Species | |
| Gill Net | Jul 26 96 | 10.7 | None | 0 |



Lake AA10.1

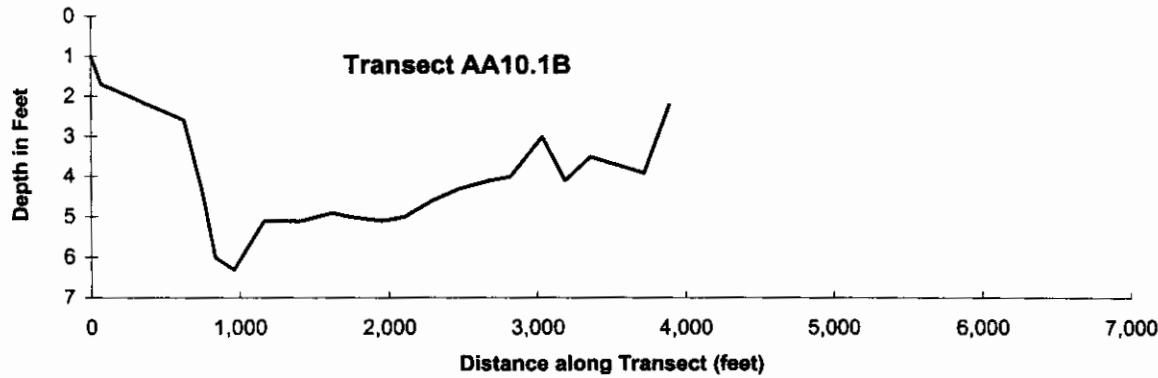
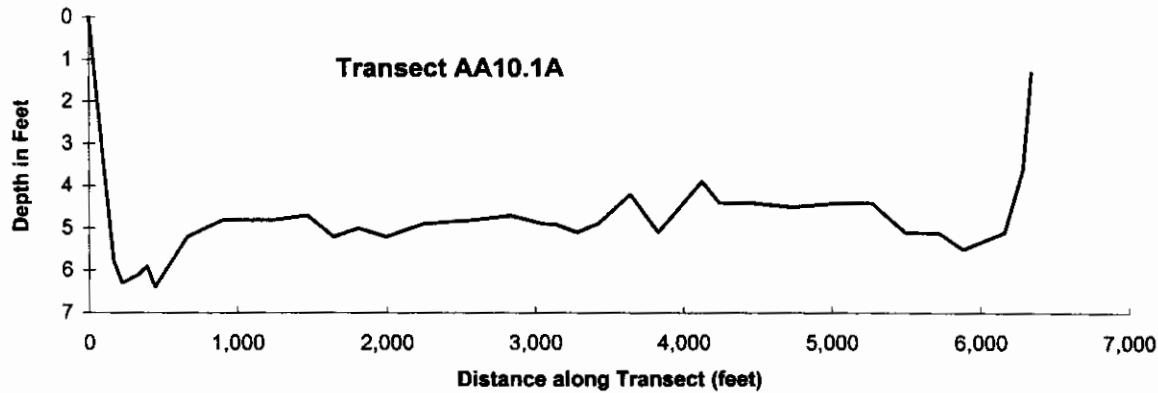
Other Names: M9602
Location: 70°13.36'N 150°43.98'W
USGS Quad Sheet: Harrison Bay A-2: T10N R5E, Sect 13
Habitat: Tundra Lake
Area: 604 acres
Maximum Depth: 6.4 feet
Active Outlet: No
Spec. Conductance: $\mu\text{S}/\text{cm}$
pH: 8.0
Calculated Volume: 415.9 million gallons
Permittable Volume: 0.0 million gallons

Water Quality:

| Year of Test | Chloride (mg/l) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------------|--------------------|------------------|---------------------|-------------------|---|--|------------|
| 1996 | 15.9 | 13.5 | 2.85 | 31.5 | 90.4 | 150 | J. Lobdell |

Catch Record:

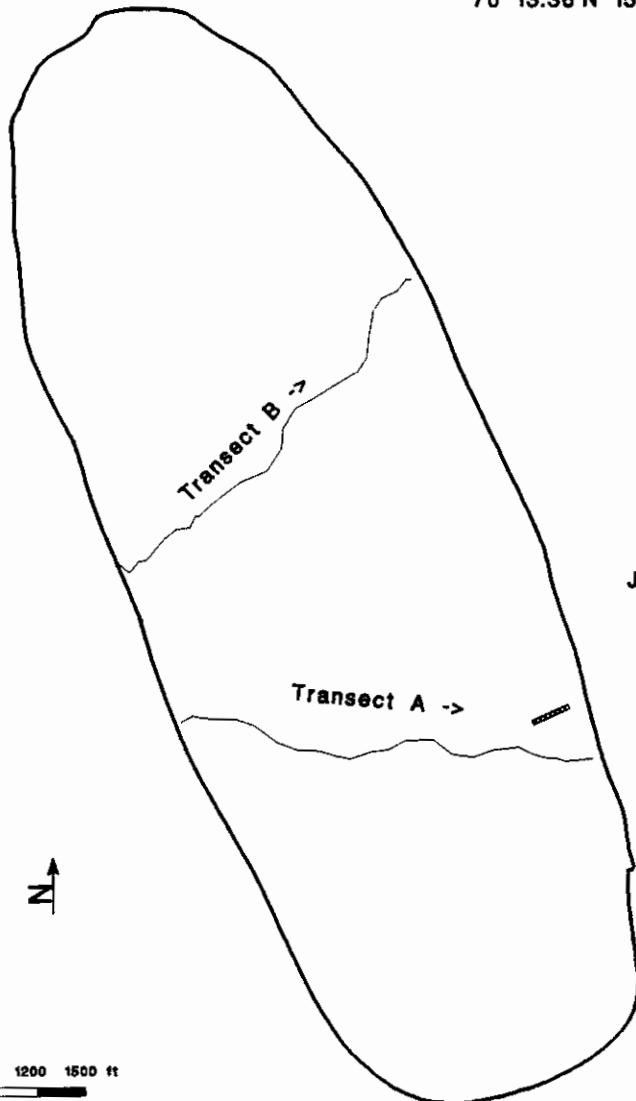
| Gear | Date | Effort (hours) | Species | Number Caught |
|----------|-----------|-------------------|---------|------------------|
| Gill Net | Jul 26 96 | 10.7 | None | 0 |



**AA14.1
(M9605)**

70°13.36'N 150°30.71'W

Jul 18, 1996



Lake AA14.1

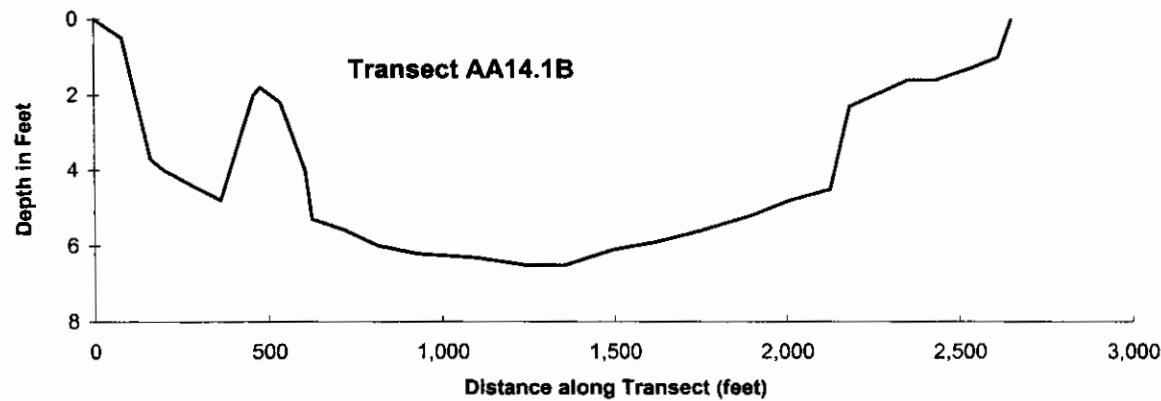
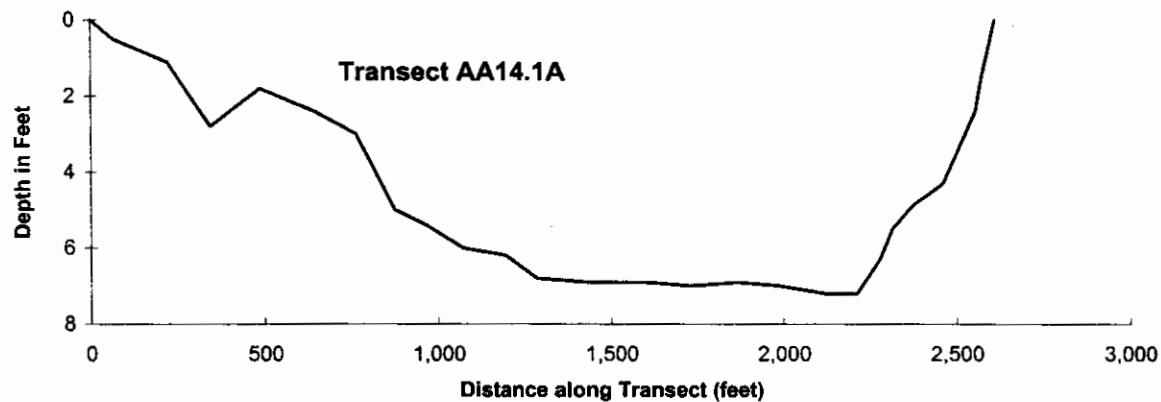
Other Names: M9605
Location: 70°13.36'N 150°30.71'W
USGS Quad Sheet: Harrison Bay A-1: T10N R6E, Sect 13
Habitat: Tundra Lake
Area: 308 acres
Maximum Depth: 7.2 feet
Active Outlet: No
Spec. Conductance: 176 $\mu\text{S}/\text{cm}$
Calculated Volume: 238.3 million gallons
Permittable Volume: No fish concern

Water Quality:

| Year of Test | Chloride (mg/l) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------------|--------------------|------------------|---------------------|-------------------|---|--|------------|
| 1996 | 9.82 | 9.8 | 2.93 | 31.2 | 90 | 121 | J. Lobdell |

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|----------|-----------|-------------------|---------|------------------|
| Gill Net | Jul 18 96 | 4.3 | None | 0 |

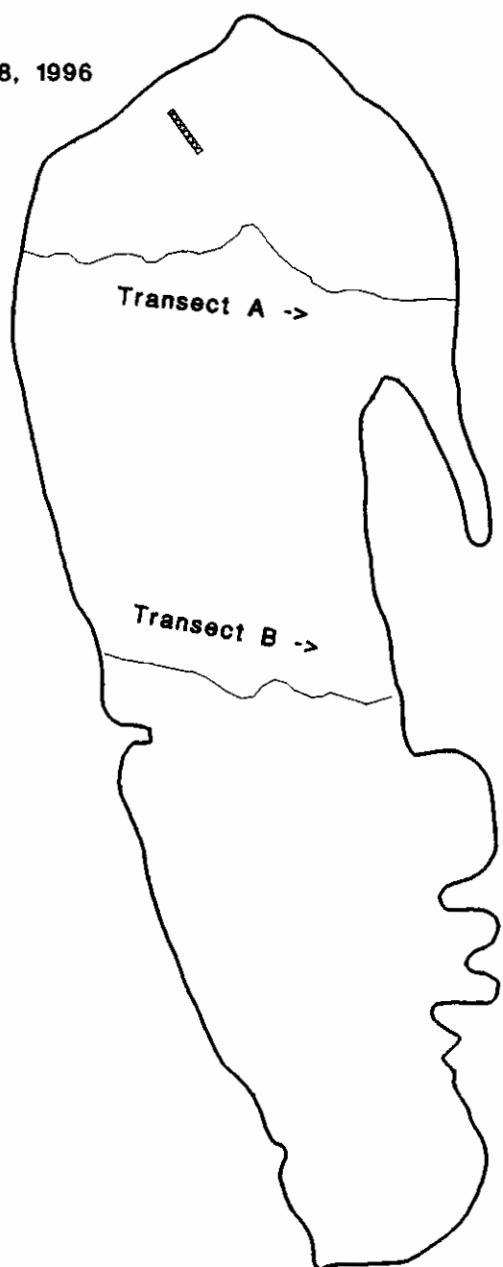


Jul 18, 1996

AA18.1

(L9128)

70°13.77'N 150°20.92'W



Lake AA18.1

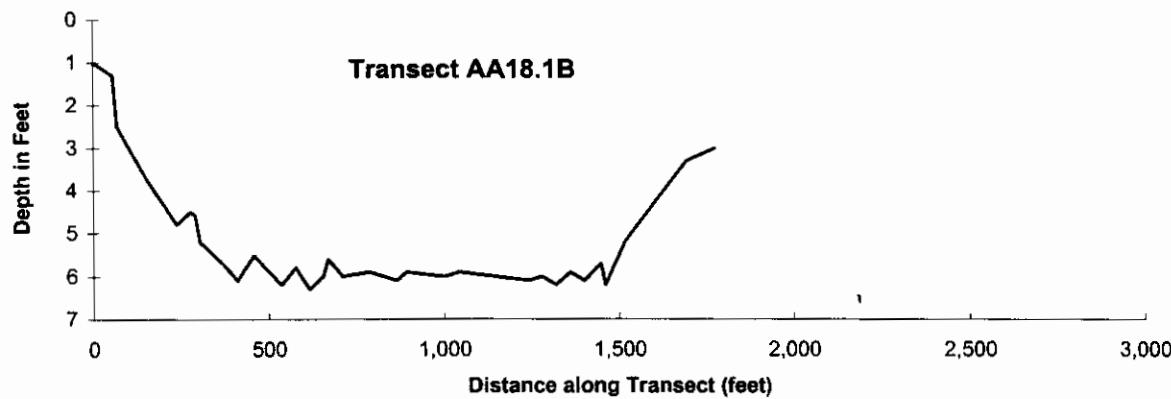
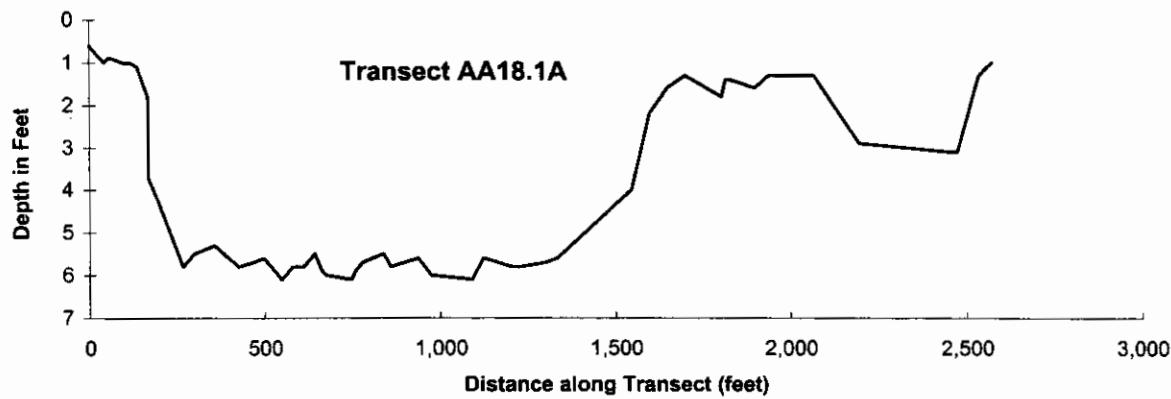
Other Names: L9128
Location: 70°13.77'N 150°20.92'W
USGS Quad Sheet: Harrison Bay A-1: T10N R7E, Sect 10, 15
Habitat: Tundra Lake
Area: 347 acres
Maximum Depth: 7.0 feet
Active Outlet: No
Spec. Conductance: 166 $\mu\text{S}/\text{cm}$
Calculated Volume: 261.3 million gallons
Permittable Volume: No fish concern

Water Quality:

| Year of Test | Chloride (mg/l) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------|-----------------|---------------|------------------|----------------|--|-------------------------------|------------|
| 1991 | 5 | 1.9 | 1.4 | 22 | 61 | 72 | J. Lobdell |
| 1997 | 58 | 52.3 | 5.4 | 22 | 76 | 118 | J. Lobdell |

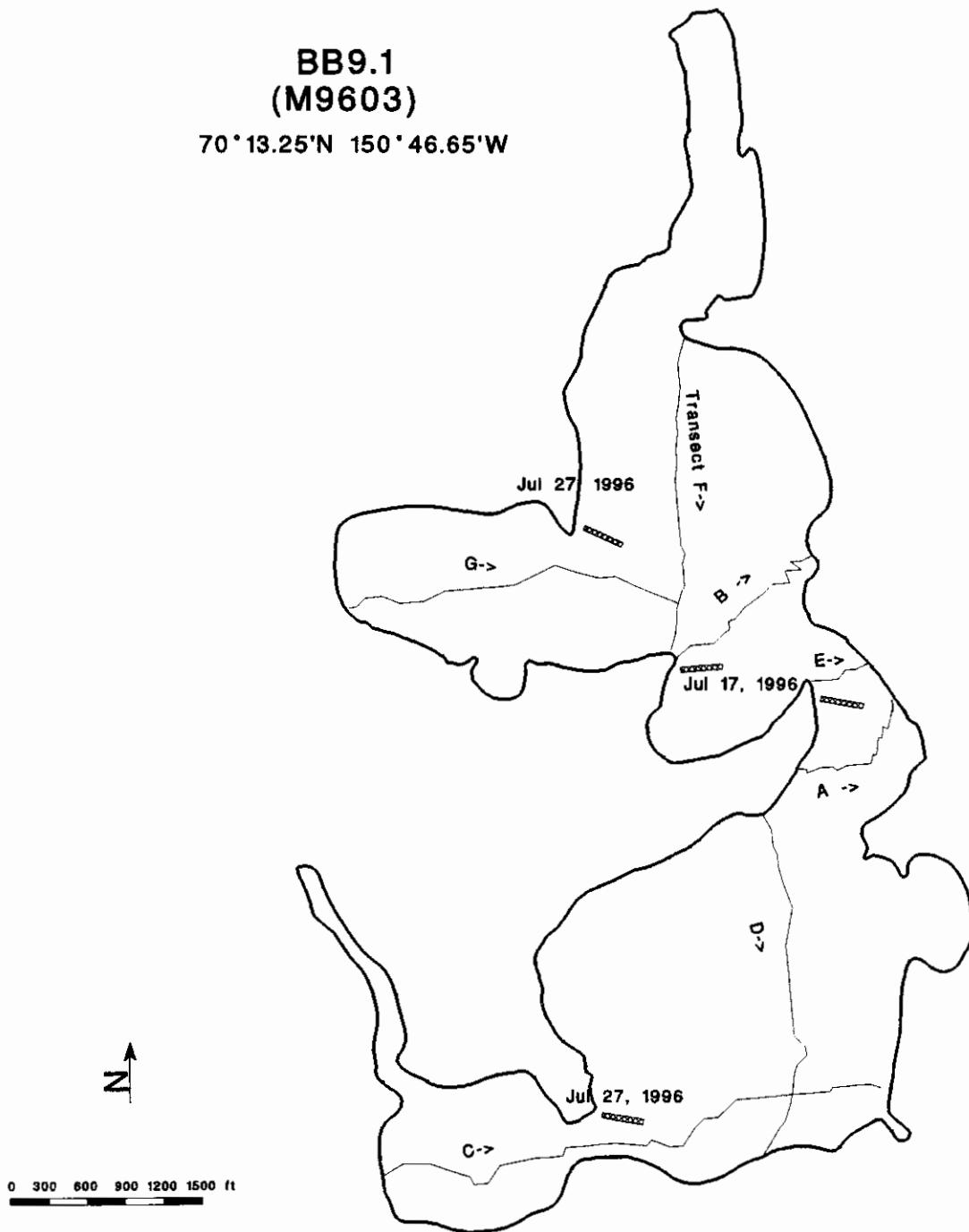
Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|----------|-----------|----------------|---------|---------------|
| Gill Net | Jul 18 96 | 4.8 | None | 0 |



BB9.1
(M9603)

70°13.25'N 150°46.65'W



Lake BB9.1

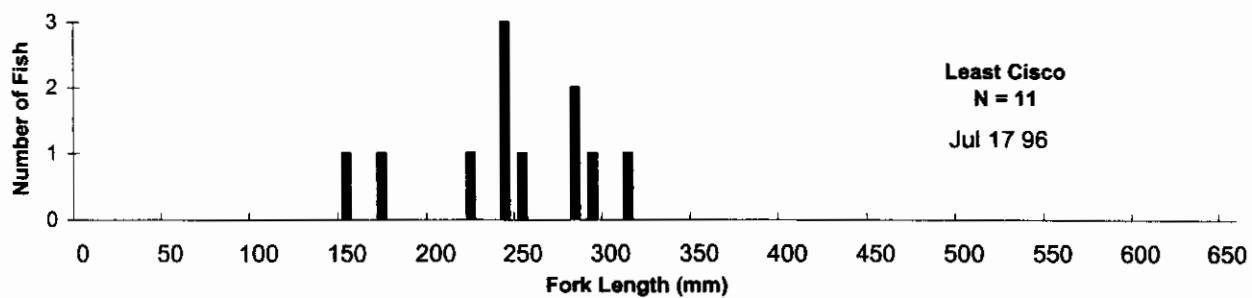
Other Names: M9603
Location: 70°13.25'N 150°46.65'W
USGS Quad Sheet: Harrison Bay A-2: T10N R5E, Sect 14, 23
Habitat: Drainage Lake
Area: 420 acres
Maximum Depth: 17.2 feet
Active Outlet: Yes
Spec. Conductance: 165 $\mu\text{S}/\text{cm}$
pH: 8.0-8.3
Calculated Volume: 776.4 million gallons
Permittable Volume: 69.1 million gallons

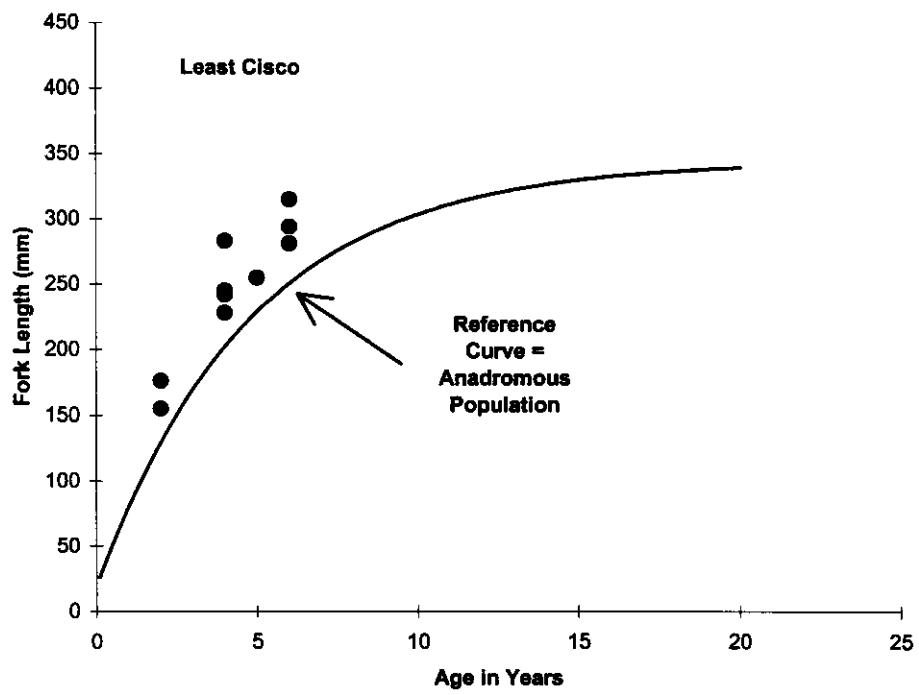
Water Quality:

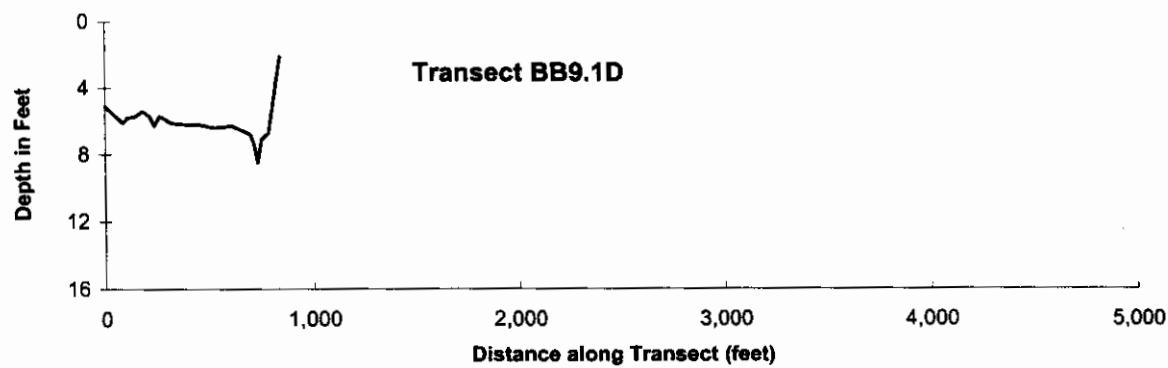
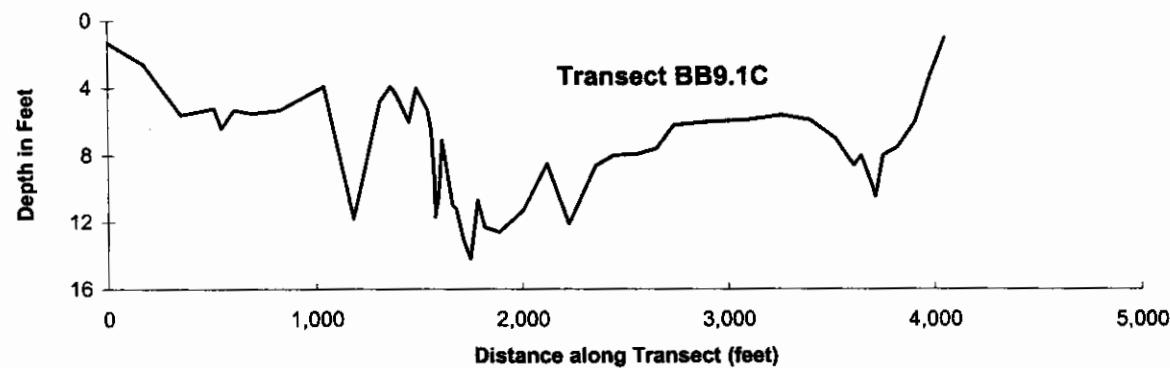
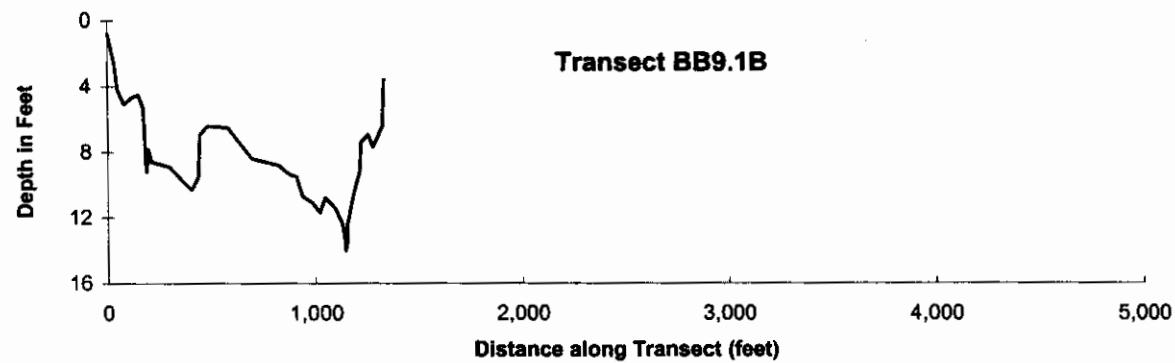
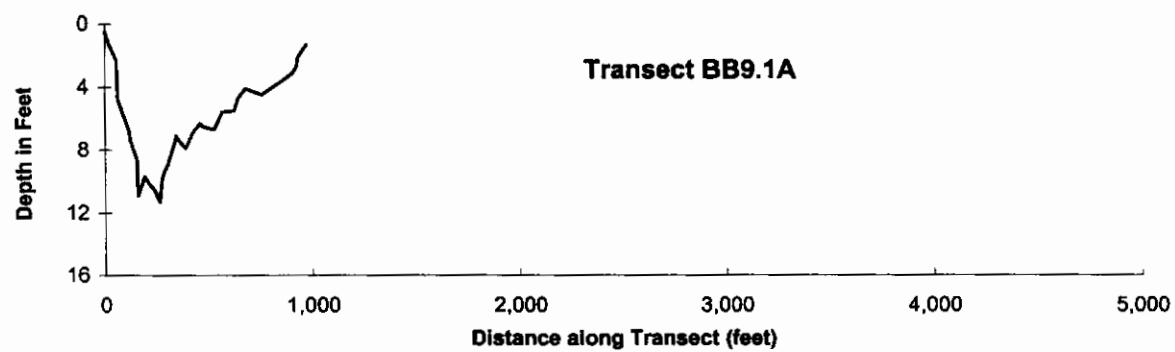
| Year of Test | Chloride (mg/l) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------------|--------------------|------------------|---------------------|-------------------|---|--|------------|
| 1996 | 11 | 8.3 | 3.27 | 25.4 | 76.9 | 105 | J. Lobdell |

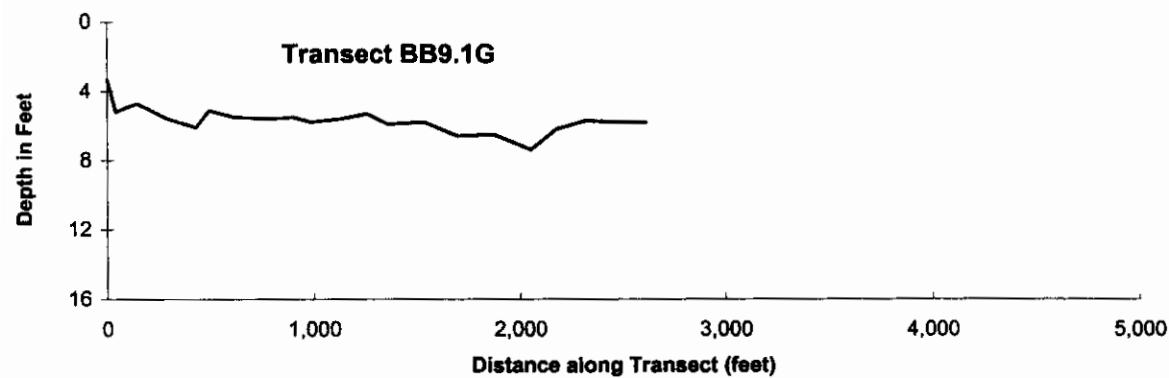
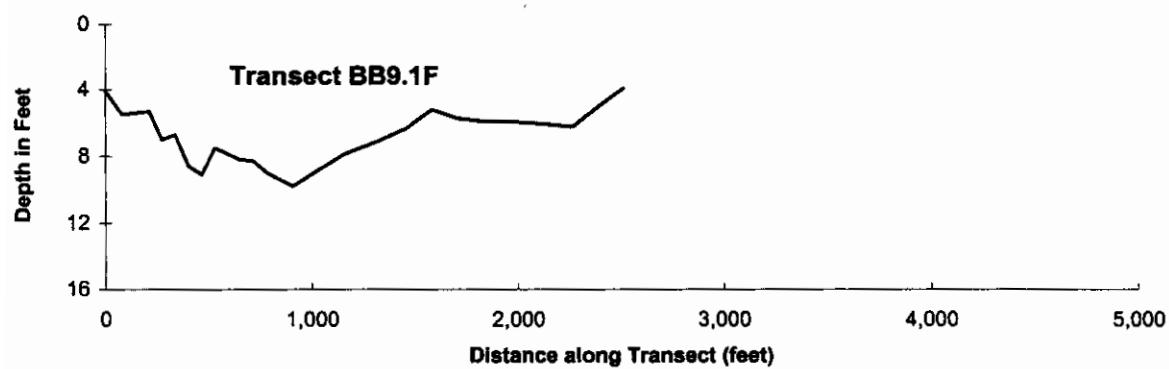
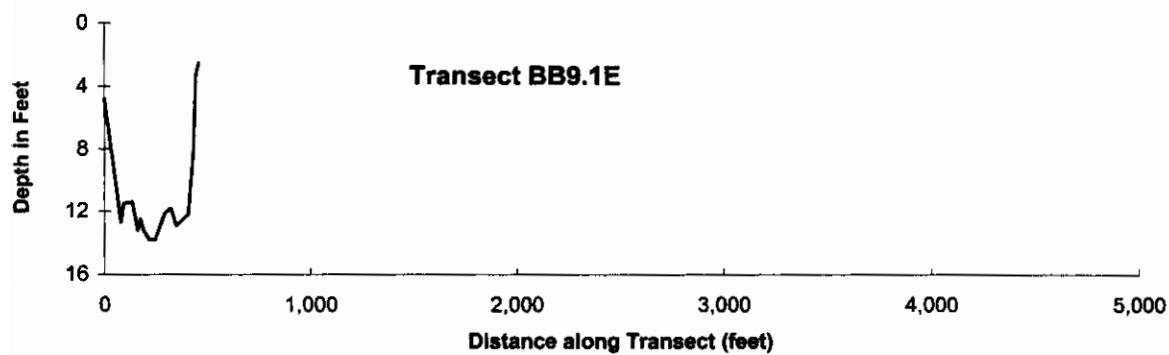
Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|----------|-----------|-------------------|--------------------------------|------------------|---------------------|
| Gill Net | Jul 17 96 | 8.1 | Least cisco | 2 | 286, 318 |
| Gill Net | Jul 27 96 | 10.9 | Least cisco Arctic grayling | 9 1 | 155-294 237 |









BB19.1
(M9616)

70°12.26'N 150°17.37'W

Jul 29, 1996

Not sampled, water too shallow



0 300 600 900 1200 1500 ft

2-438

Lake BB19.1

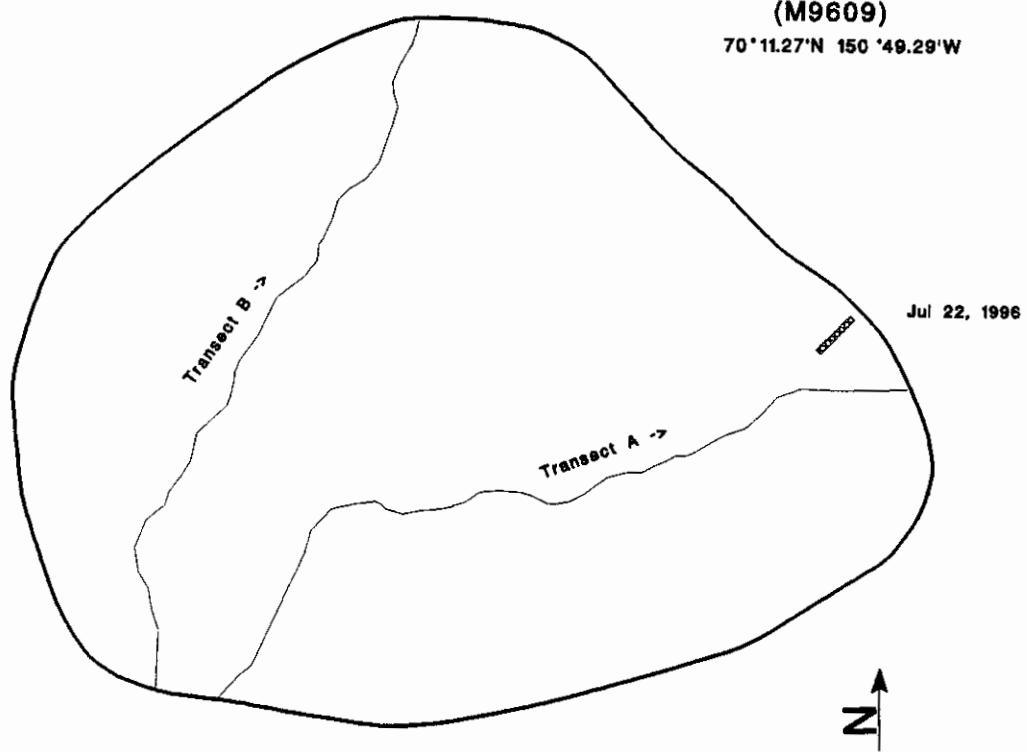
Other Names: M9616
Location: 70°12.26'N 150°17.37'W
USGS Quad Sheet: Harrison Bay A-1: T10N R7E, Sect 23
Habitat: Tundra Lake
Area: 177 acres
Maximum Depth: 2.0 feet
Active Outlet: No
Spec. Conductance: 419 µS/cm
Calculated Volume: 38.0 million gallons
Permittable Volume: No fish concern

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|----------|-----------|-------------------|---------|------------------|
| Gill Net | Jul 29 96 | 0.0 | None | 0 |

Lake too shallow to set net, almost drained.

CC8.1
(M9609)
70°11.27'N 150°49.29'W



0 300 600 900 1200 1500 ft

Lake CC8.1

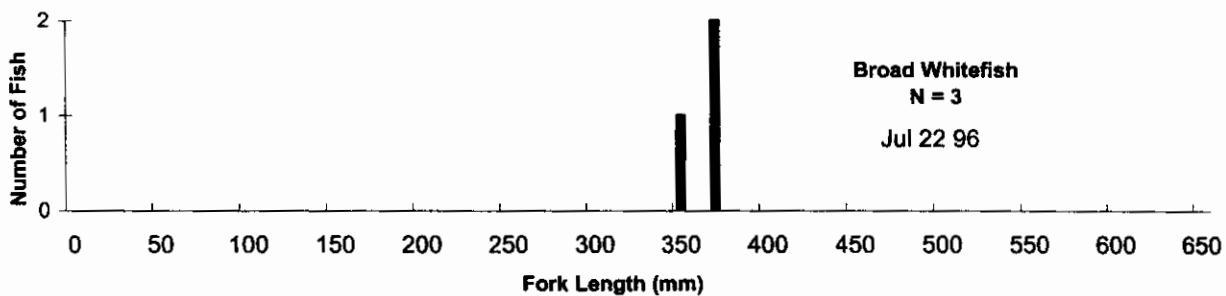
Other Names: M9609
Location: 70°11.27'N 150°49.29'W
USGS Quad Sheet: Harrison Bay A-2: T10N R5E, Sect 27
Habitat: Perched Lake (Infrequent Flooding)
Area: 74 acres
Maximum Depth: 16.5 feet
Active Outlet: No
Spec. Conductance: 78 $\mu\text{S}/\text{cm}$
Calculated Volume: 131.6 million gallons
Permittable Volume: 11.4 million gallons

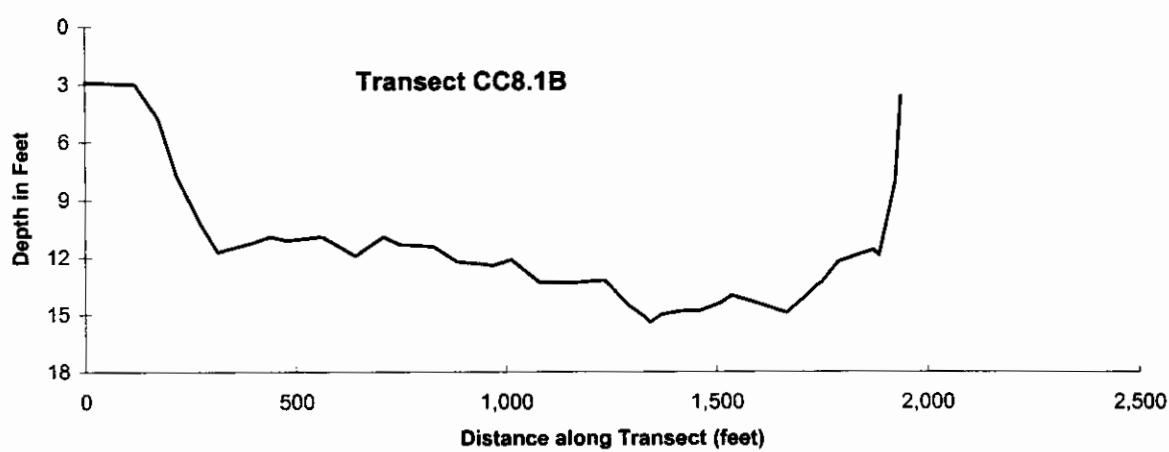
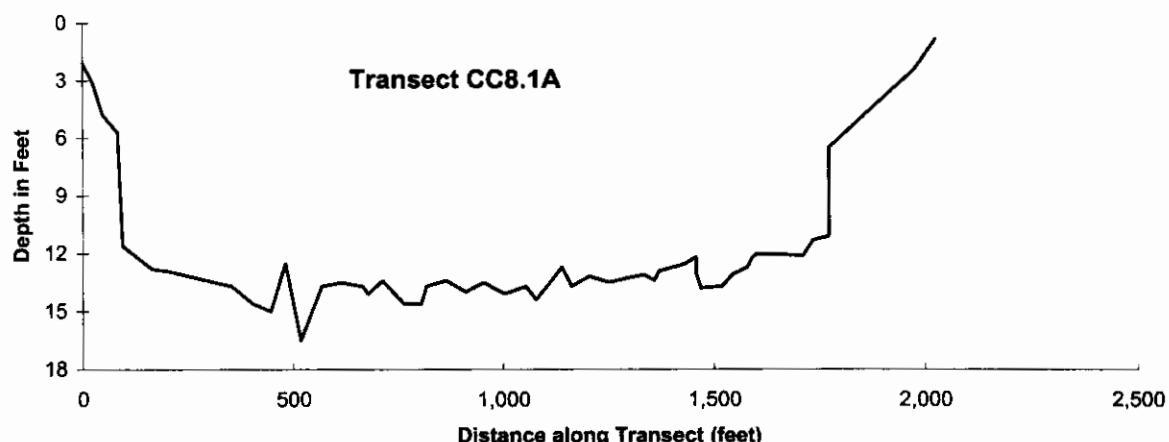
Water Quality:

| Year of Test | Chloride (mg/l) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------------|--------------------|------------------|---------------------|-------------------|---|--|------------|
| 1996 | 4.15 | 5.2 | 2.66 | 16.4 | 51.9 | 46 | J. Lobdell |

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|----------|-----------|-------------------|----------------------------------|------------------|---------------------|
| Gill Net | Jul 22 96 | 5.6 | Broad whitefish Northern pike | 3 1 | 356-378 549 |





CC8.2
(M9610)

70°11.27'N 150°48.28'W

Transect A ->

Jul 22, 1996
Transect B ->



0 300 600 900 1200 1500 ft

Lake CC8.2

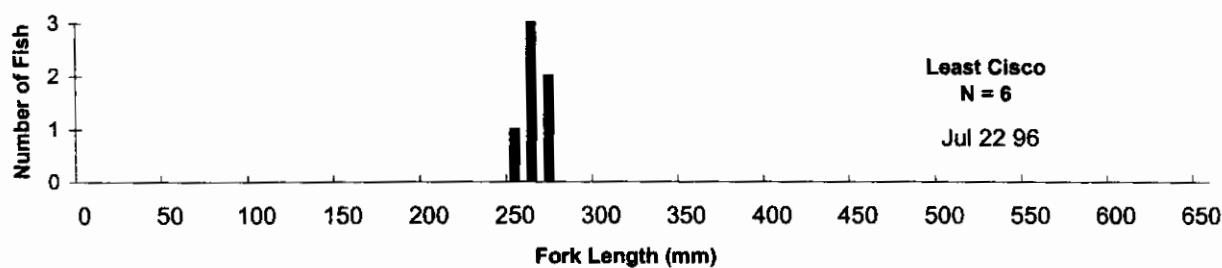
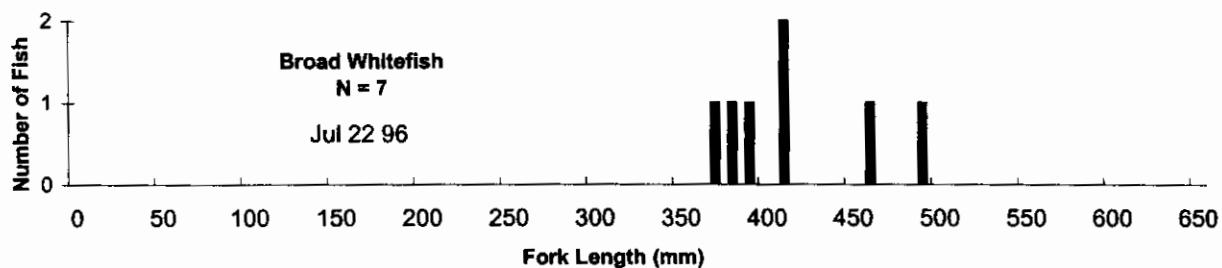
Other Names: M9610
Location: 70°11.27'N 150°48.28'W
USGS Quad Sheet: Harrison Bay A-2: T10N R5E, Sect 26
Habitat: Perched Lake (Frequent Flooding)
Area: 38 acres
Maximum Depth: 11.1 feet
Active Outlet: Yes
Spec. Conductance: 84 $\mu\text{S}/\text{cm}$
Calculated Volume: 45.0 million gallons
Permittable Volume: 2.5 million gallons

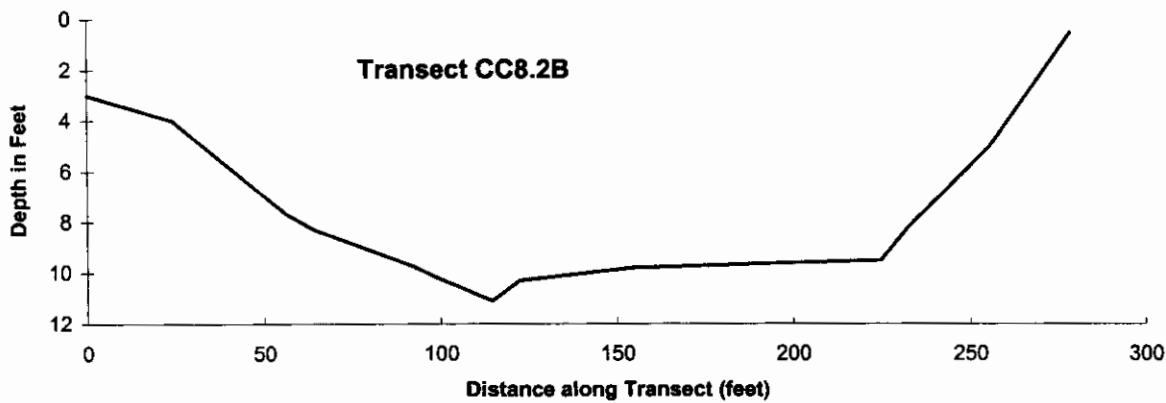
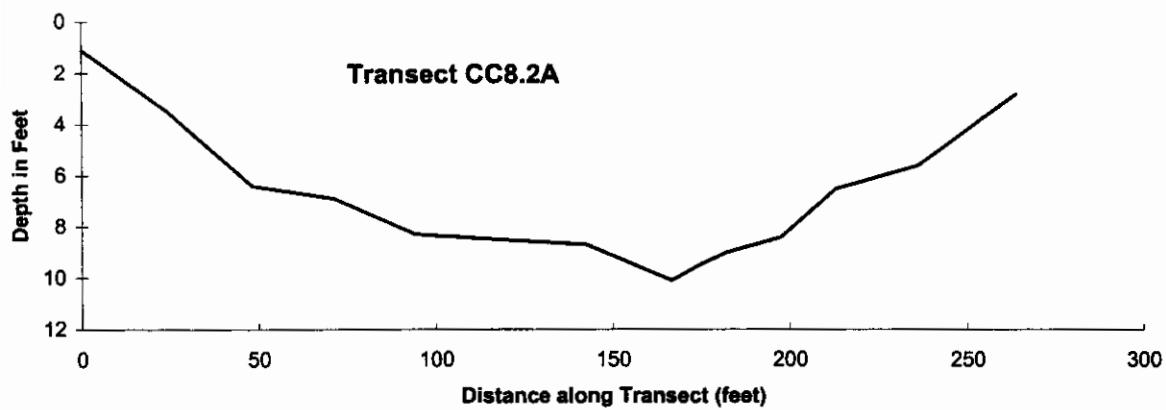
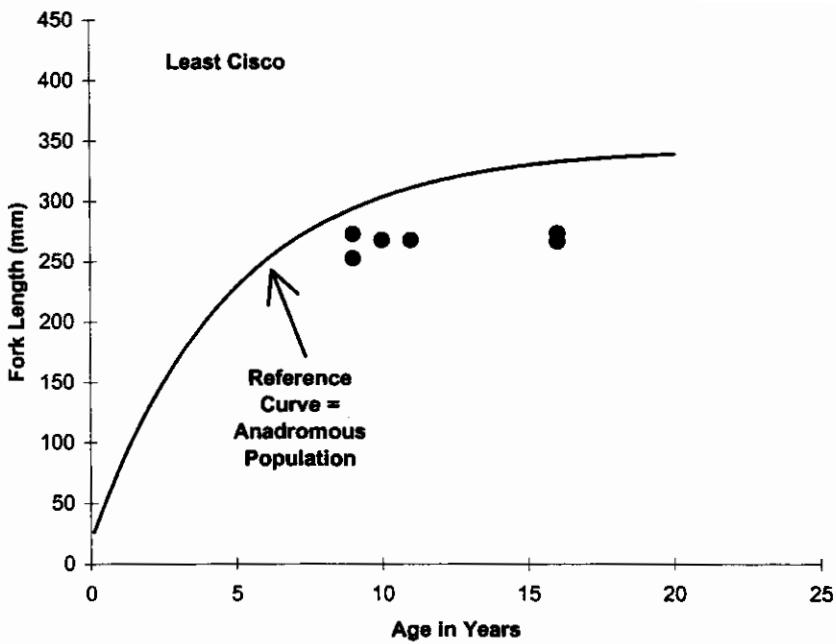
Water Quality:

| Year of Test | Chloride (mg/l) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------------|--------------------|------------------|---------------------|-------------------|---|--|------------|
| 1996 | 3.18 | 3.0 | 2.06 | 18.9 | 55.7 | 46 | J. Lobdell |

Catch Record:

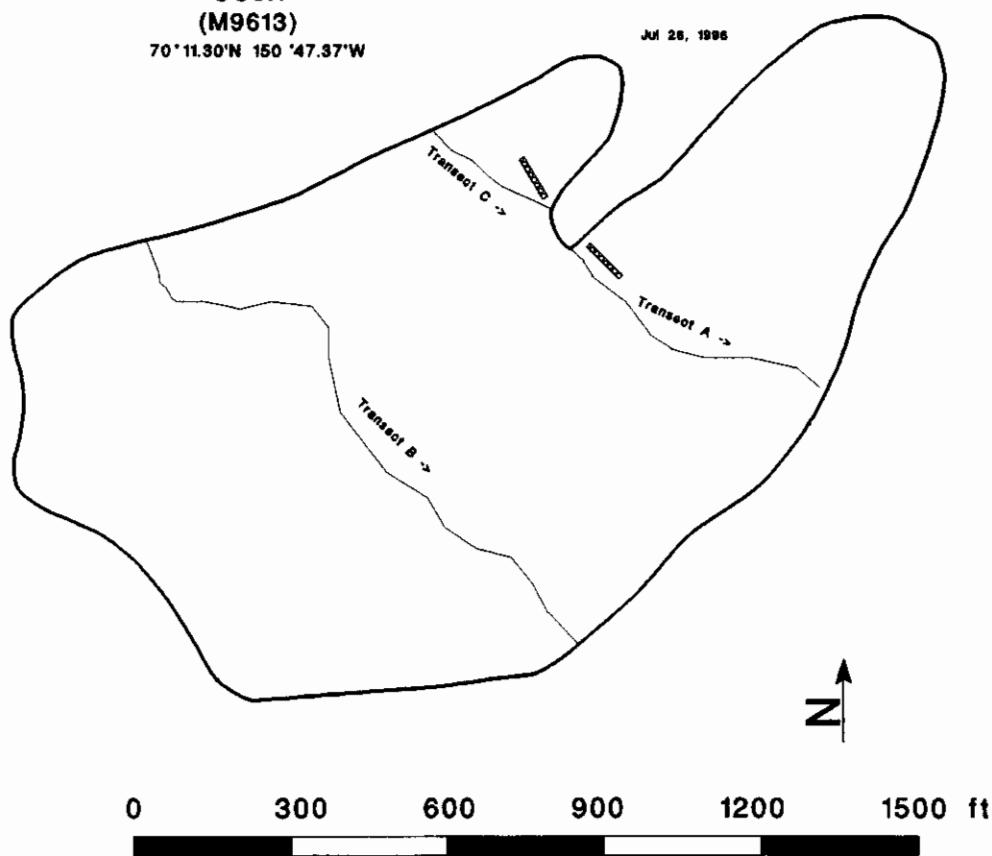
| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|----------|-----------|-------------------|------------------|------------------|---------------------|
| Gill Net | Jul 22 96 | 5.5 | Broad whitefish | 7 | 374-494 |
| | | | Round whitefish | 1 | 166 |
| | | | Least cisco | 6 | 253-274 |
| | | | Northern pike | 2 | 342, 382 |
| | | | Alaska blackfish | 2 | |





CC9.1
(M9613)
70°11.30'N 150°47.37'W

JUL 26, 1986



Lake CC9.1

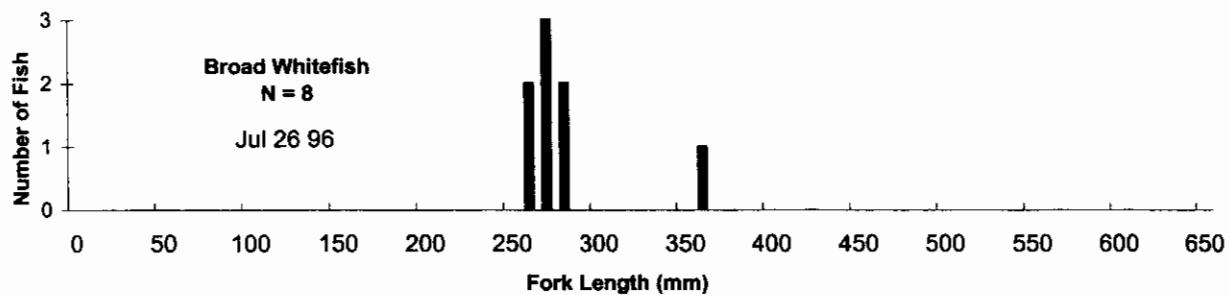
Other Names: M9613
Location: 70°11.30'N 150°47.37'W
USGS Quad Sheet: Harrison Bay A-2: T10N R5E, Sect 26
Habitat: Perched Lake (Infrequent Flooding)
Area: 32 acres
Maximum Depth: 12.6 feet
Active Outlet: No
Spec. Conductance: 144 $\mu\text{S}/\text{cm}$
Calculated Volume: 43.7 million gallons
Permittable Volume: 2.9 million gallons

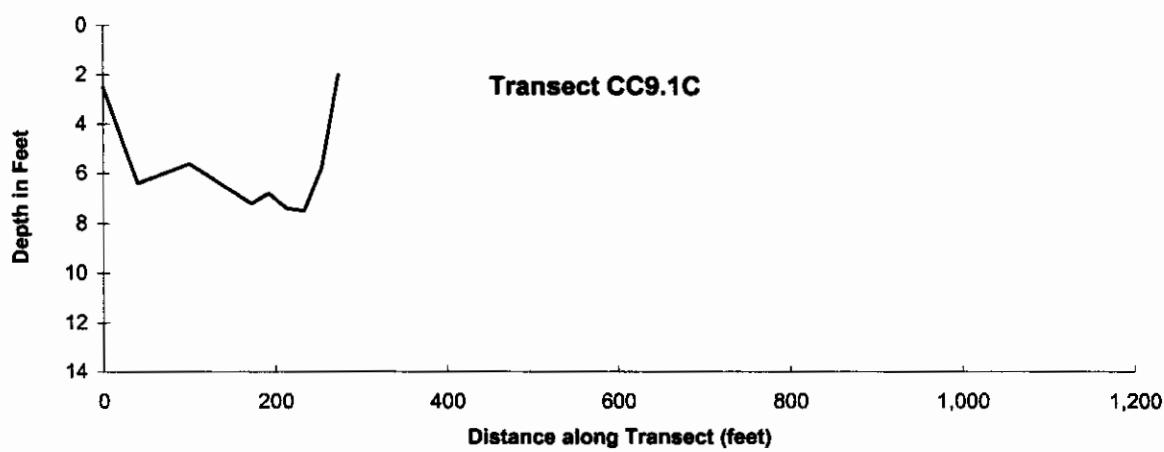
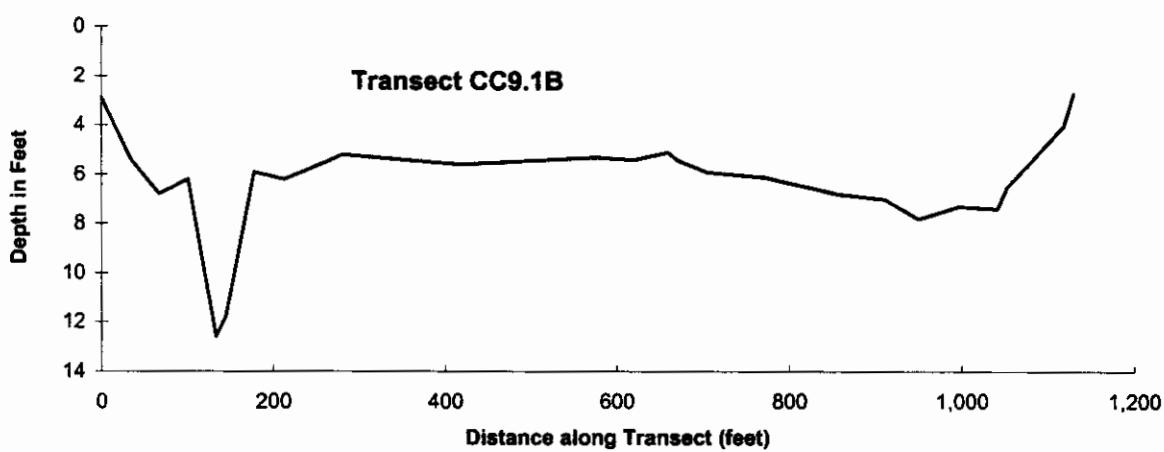
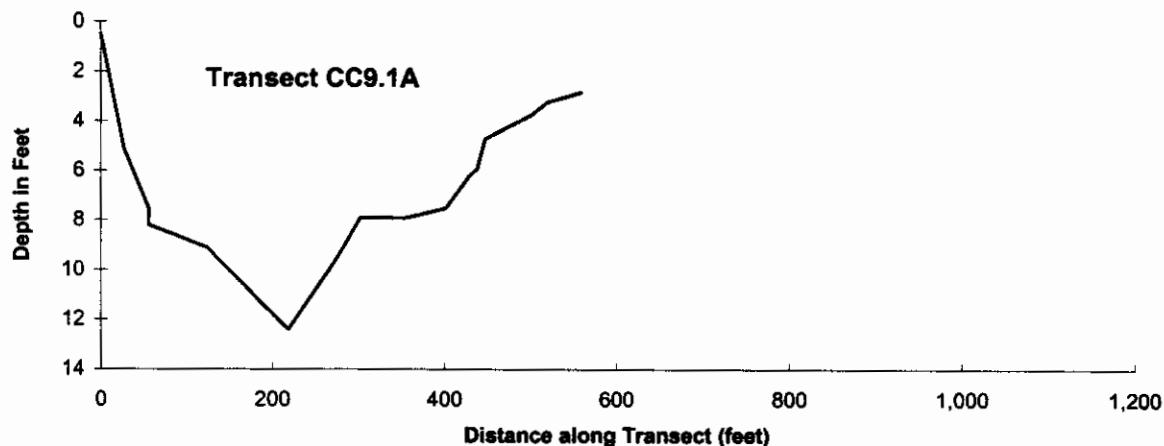
Water Quality:

| Year of Test | Chloride (mg/l) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------------|--------------------|------------------|---------------------|-------------------|---|--|------------|
| 1996 | 5.7 | 5.0 | 2.06 | 28.5 | 79.6 | 84 | J. Lobdell |

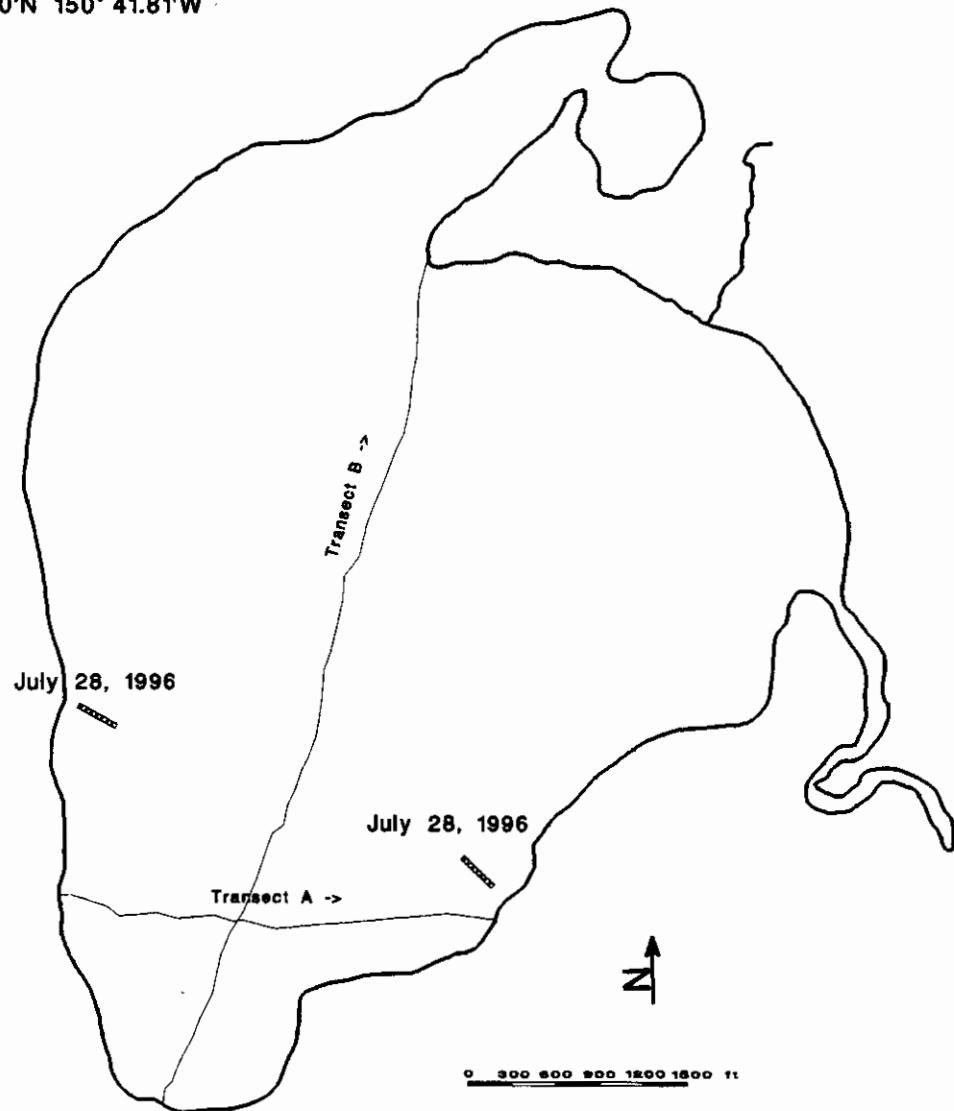
Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|----------|-----------|-------------------|-----------------|------------------|---------------------|
| Gill Net | Jul 26 96 | 11.8 | Broad whitefish | 8 | 260-362 |





CC11.1
(MC7904)
70° 11.50'N 150° 41.81'W



Lake CC11.1

Other Names: MC7904; L9133
Location: 70°11.50'N 150°41.28'W
USGS Quad Sheet: Harrison Bay A-2: T10N R6E, Sect 29, 30
Habitat: Drainage Lake
Area: 615 acres
Maximum Depth: 5.9 feet
Active Outlet: Yes
Calculated Volume: 390.0 million gallons
Permittable Volume: 0.0 million gallons

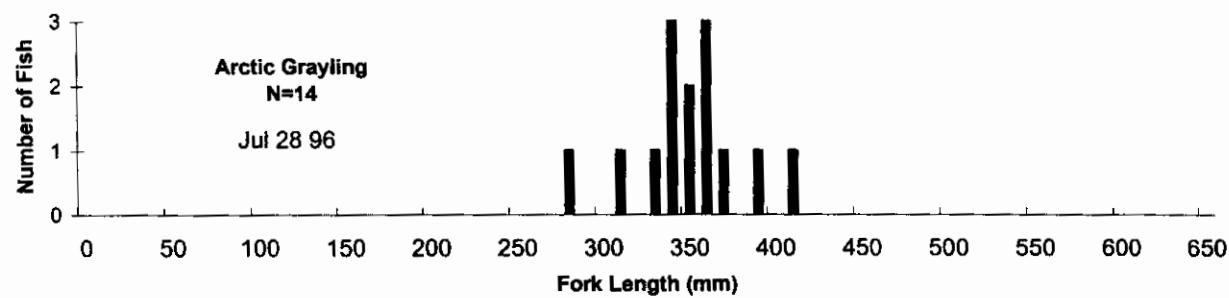
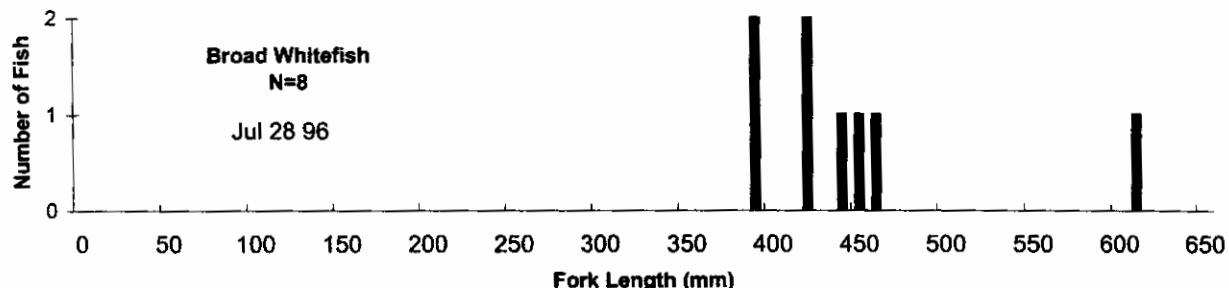
Water Quality:

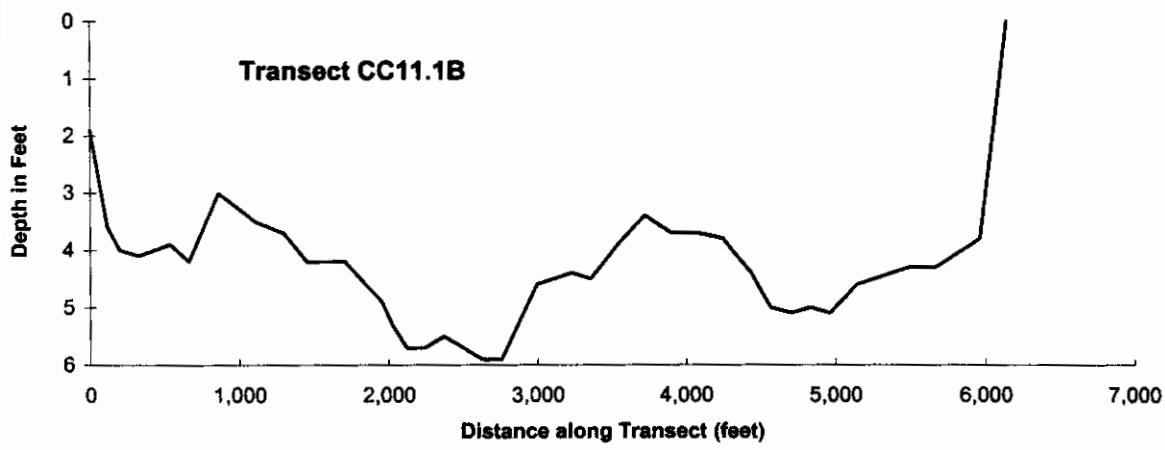
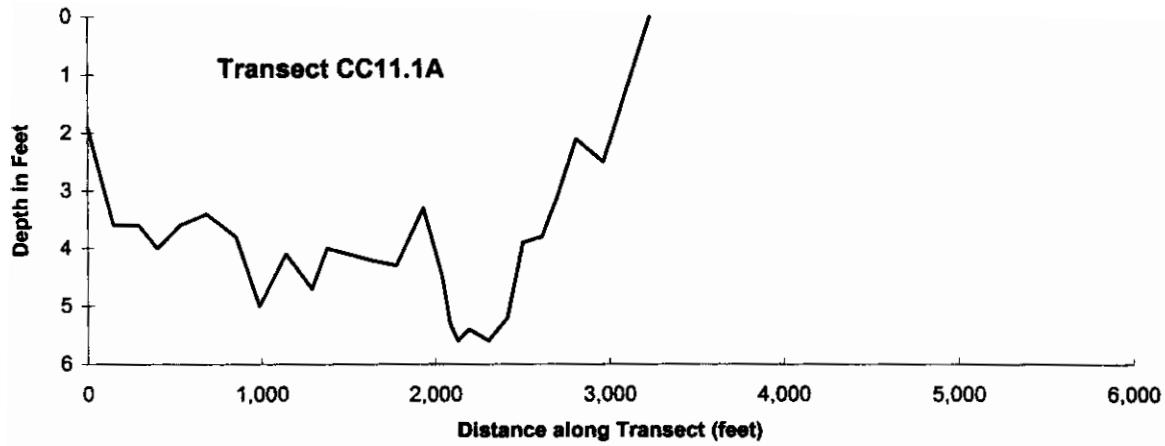
| Year of Test | Chloride (mg/l) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------|-----------------|---------------|------------------|----------------|--|-------------------------------|------------|
| 1991 | 5 | 1.7 | 1 | 13 | 37 | 52 | J. Lobdell |

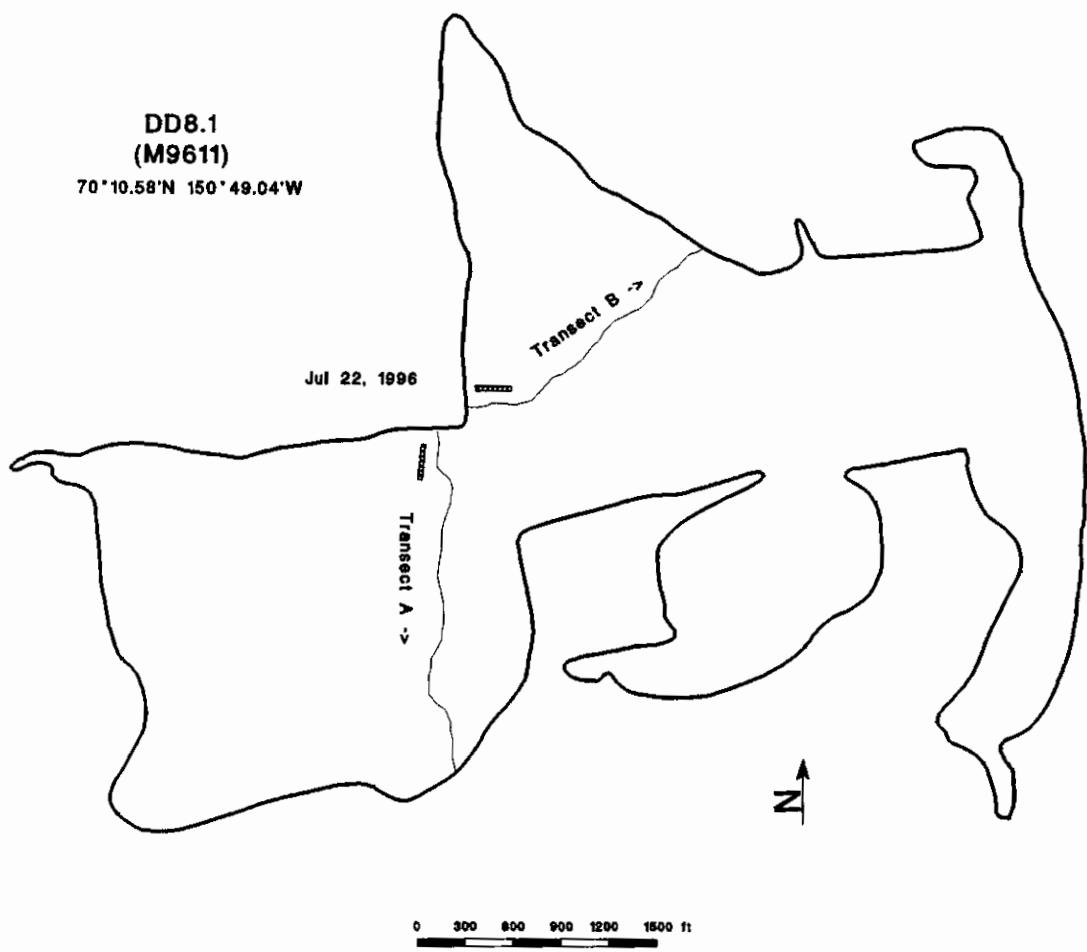
Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|----------|-----------|----------------|------------------|---------------|------------------|
| Gill Net | Sep 5 79 | 66.7 | Broad whitefish | 15 | 107-600 |
| | | | Least cisco | 40 | 88-395 |
| | | | Round whitefish | 2 | 186-295 |
| | | | Arctic grayling | 21 | |
| | | | Alaska blackfish | 2 | |
| Gill Net | Jul 28 96 | 5.3 | Broad whitefish | 9 | 396-615 |
| | | | Arctic grayling | 18 | 280-414 |

Source of 1979 data: McElderry & Craig 1981







Lake DD8.1

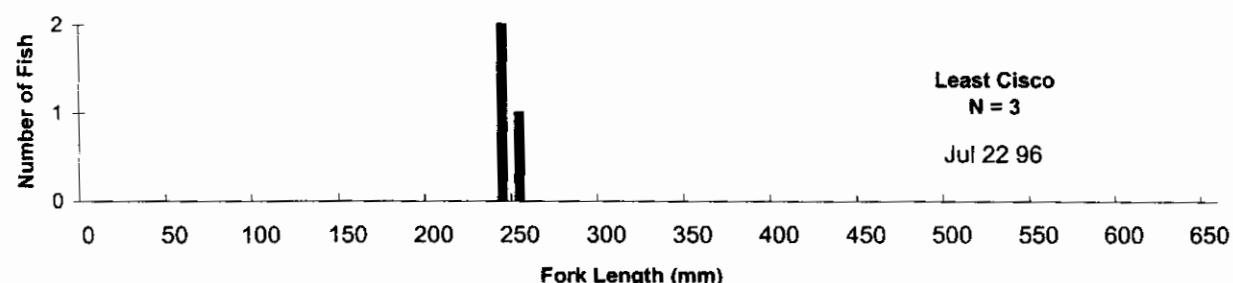
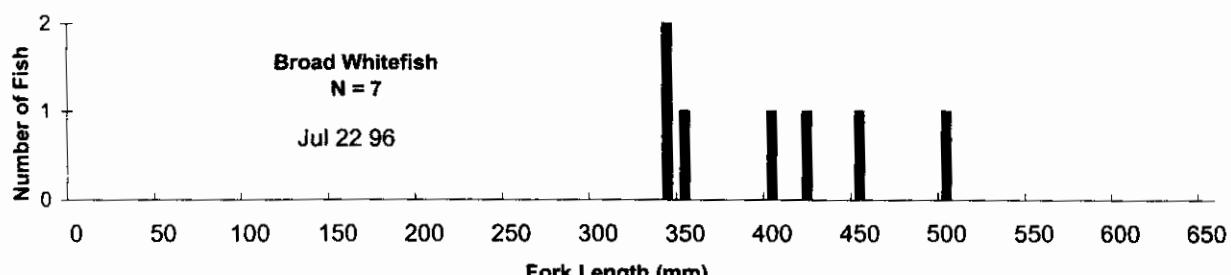
Other Names: M9611
Location: 70°10.58'N 150°49.04'W
USGS Quad Sheet: Harrison Bay A-2: T10N R5E, Sect 34, 35
Habitat: Perched Lake (Frequent Flooding)
Area: 337 acres
Maximum Depth: 11.6 feet
Active Outlet: Yes
Spec. Conductance: 64 $\mu\text{S}/\text{cm}$
Calculated Volume: 420.0 million gallons
Permittable Volume: 25.0 million gallons

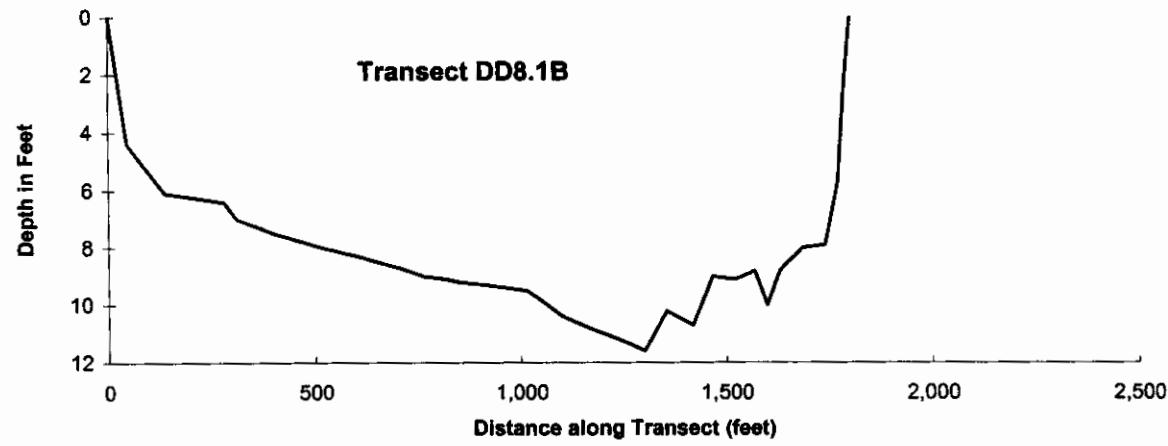
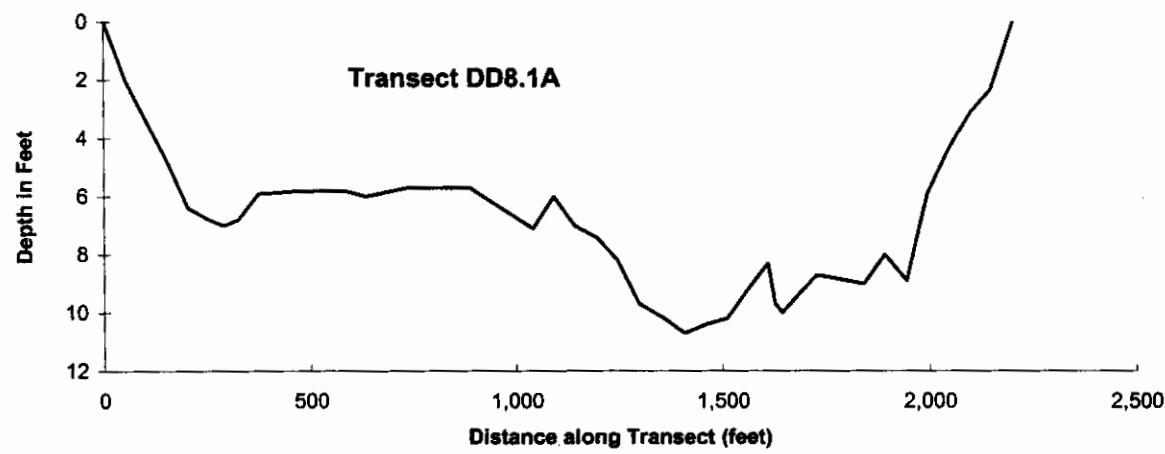
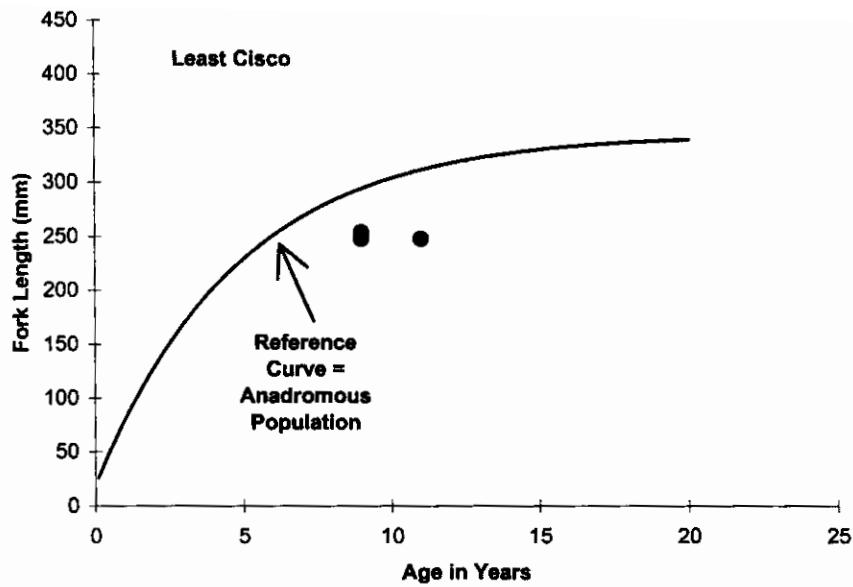
Water Quality:

| Year of Test | Chloride (mg/l) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------------|--------------------|------------------|---------------------|-------------------|---|--|------------|
| 1996 | 3.06 | 3.2 | 2 | 18 | 53.2 | 48 | J. Lobdell |

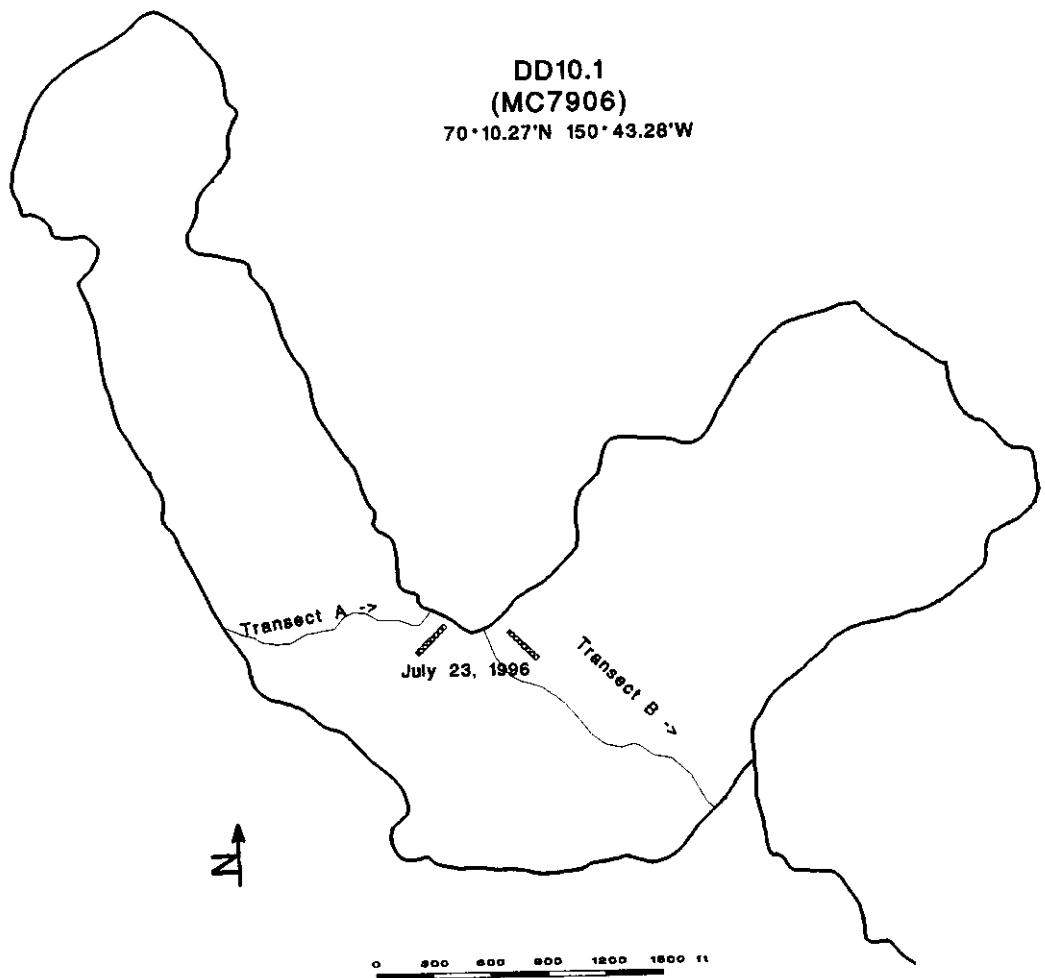
Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|----------|-----------|-------------------|-----------------|------------------|---------------------|
| Gill Net | Jul 22 96 | 9.2 | Broad whitefish | 7 | 342-500 |
| | | | Least cisco | 4 | 248-254 |
| | | | Northern pike | 1 | 605 |





DD10.1
(MC7906)
70°10.27'N 150°43.28'W



Lake DD10.1

Other Names: MC7906
Location: 70°10.27'N 150°43.28'W
USGS Quad Sheet: Harrison Bay A-2: T10N R6E, Sect 6
Habitat: Drainage Lake
Area: 197 acres
Maximum Depth: 7.5 feet
Active Outlet: Yes
Spec. Conductance: 75 $\mu\text{S}/\text{cm}$
Calculated Volume: 158.8 million gallons
Permittable Volume: 1.6 million gallons

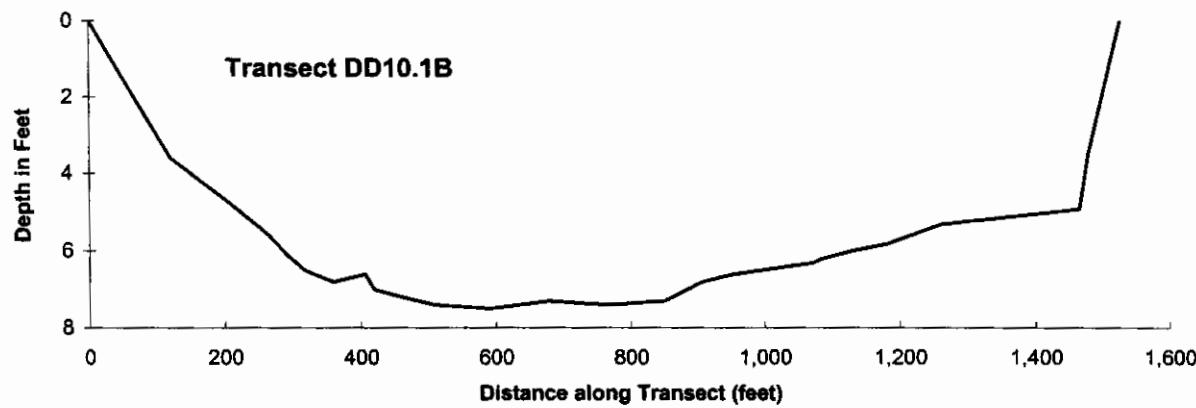
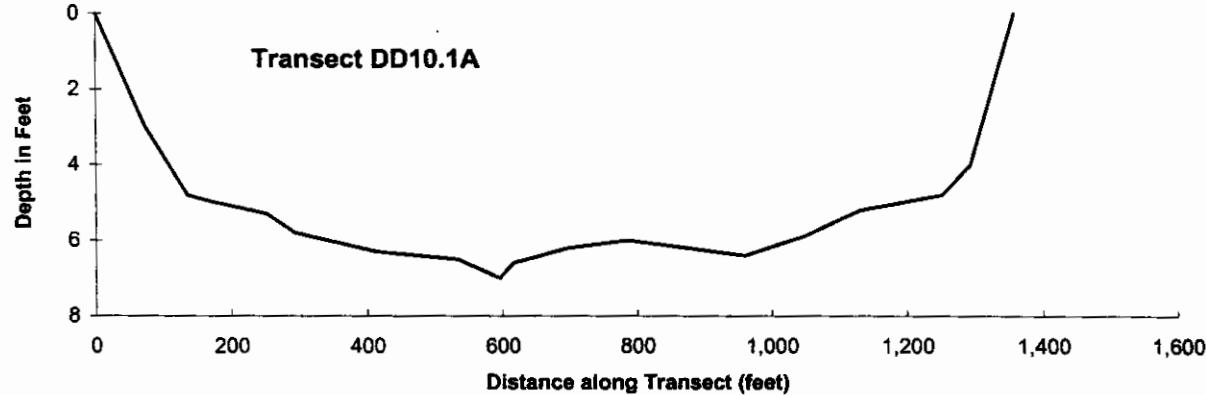
Water Quality:

| Year of Test | Chloride (mg/l) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------------|--------------------|------------------|---------------------|-------------------|---|--|------------|
| 1996 | 5.21 | 4.5 | 1.49 | 19.2 | 54.1 | 65 | J. Lobdell |

Catch Record:

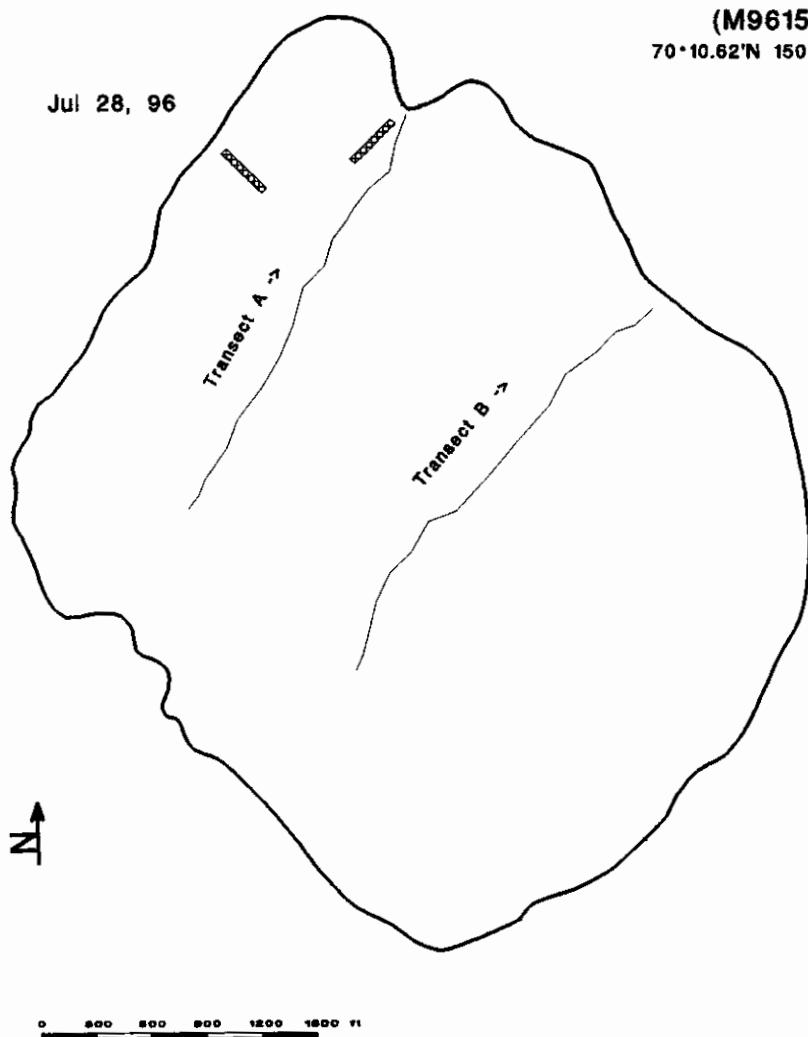
| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|----------|-----------|-------------------|-----------------|------------------|---------------------|
| Gill Net | Sep 6 79 | ? | no catch | 0 | |
| Gill Net | Jul 23 96 | 11.6 | Arctic grayling | 1 | 176 |

Source of 1979 data: McElderry & Craig 1981



DD11.1
(M9615)
70°10.62'N 150°40.81'W

Jul 28, 96



N

0 500 1000 1500 2000

Lake DD11.1

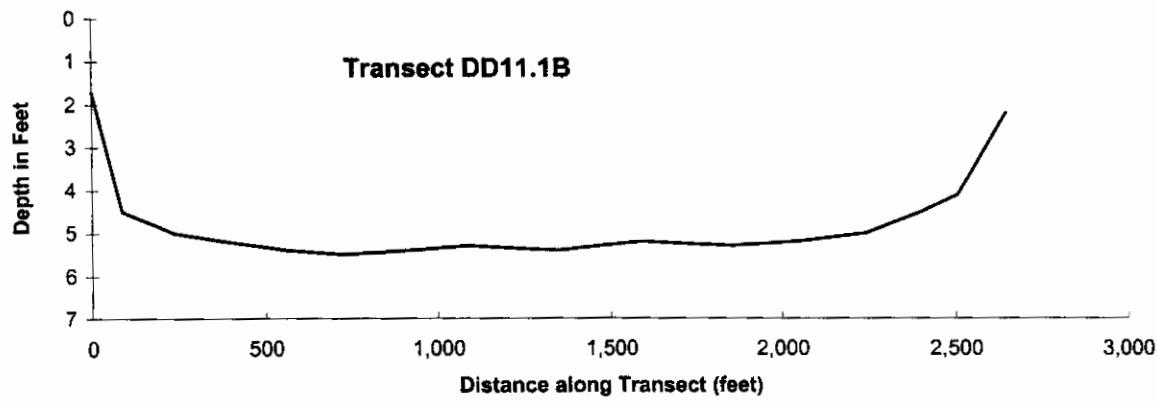
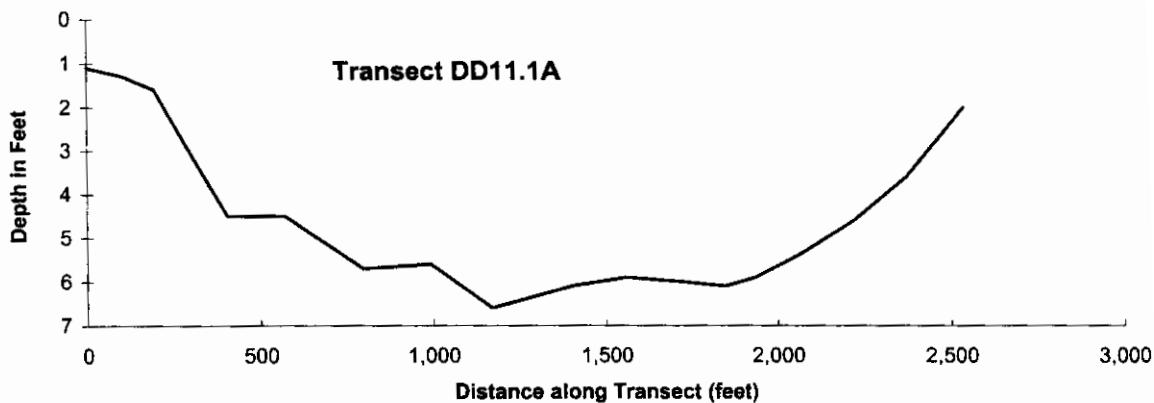
Other Names: M9615
Location: 70°10.62'N 150°40.81'W
USGS Quad Sheet: Harrison Bay A-2: T10N R6E, Sect 32
Habitat: Tundra Lake
Area: 325 acres
Maximum Depth: 6.6 feet
Active Outlet: No
Spec. Conductance: $\mu\text{S}/\text{cm}$
Calculated Volume: 230.6 million gallons
Permittable Volume: No fish concern

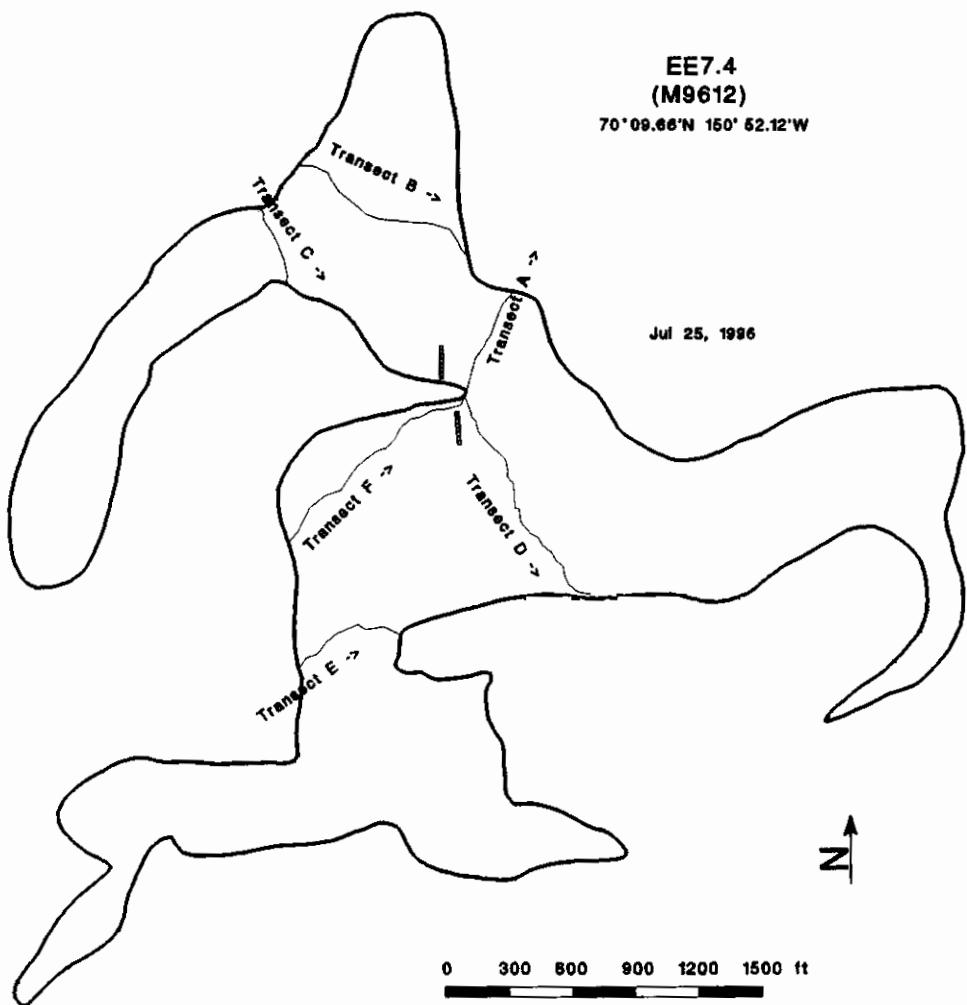
Water Quality:

| Year of Test | Chloride (mg/l) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------------|--------------------|------------------|---------------------|-------------------|---|--|------------|
| 1996 | 11.4 | 15.7 | 3.34 | 36.3 | 104 | 130 | J. Lobdell |

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|----------|-----------|-------------------|---------|------------------|
| Gill Net | Jul 28 96 | 3.8 | None | 0 |





Lake EE7.4

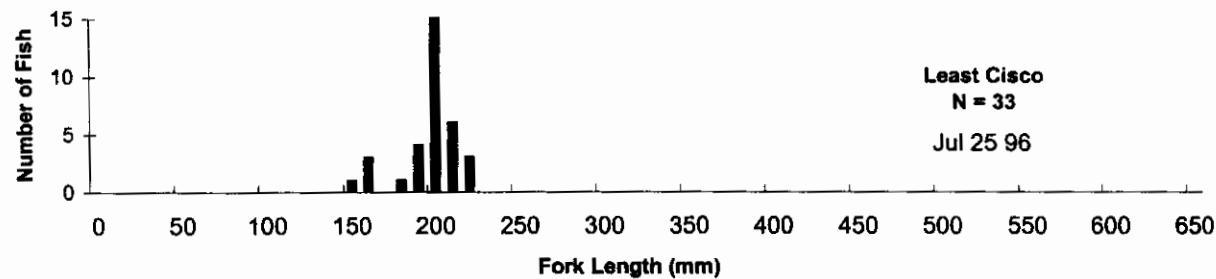
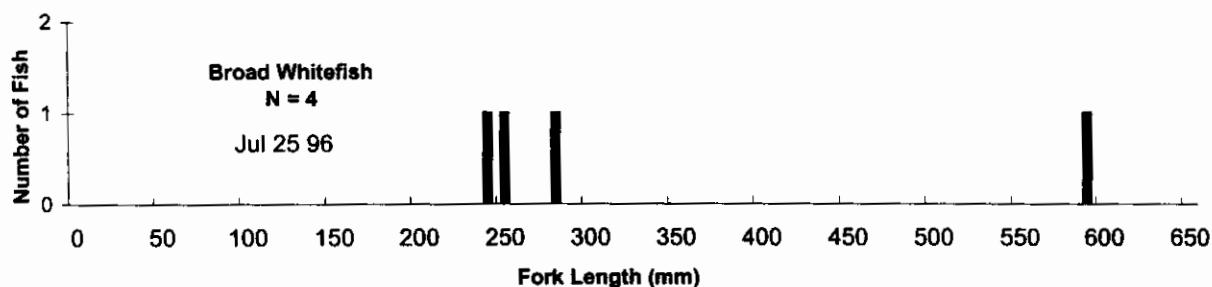
Other Names: M9612
Location: 70°09.66'N 150°52.12'W
USGS Quad Sheet: Harrison Bay A-2: T9N R5E, Sect 4
Habitat: Perched Lake (Infrequent Flooding)
Area: 147 acres
Maximum Depth: 24.2 feet
Active Outlet: No
Spec. Conductance: 84 $\mu\text{S}/\text{cm}$
Calculated Volume: 381.9 million gallons
Permittable Volume: 40.7 million gallons

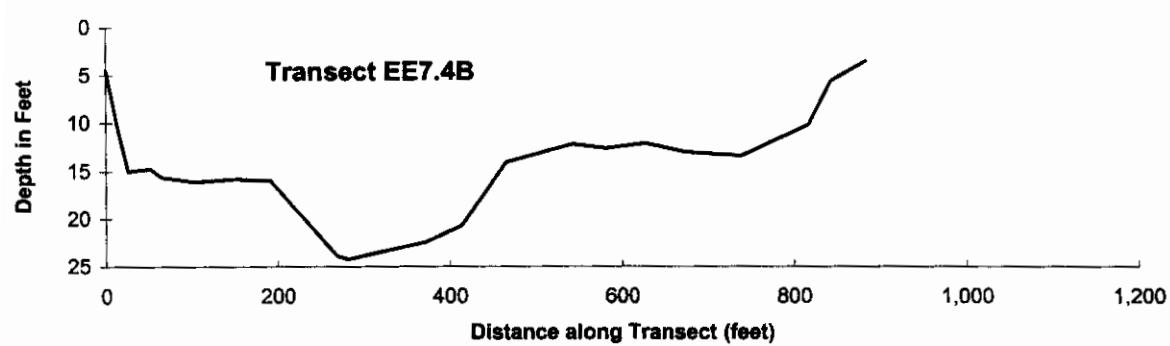
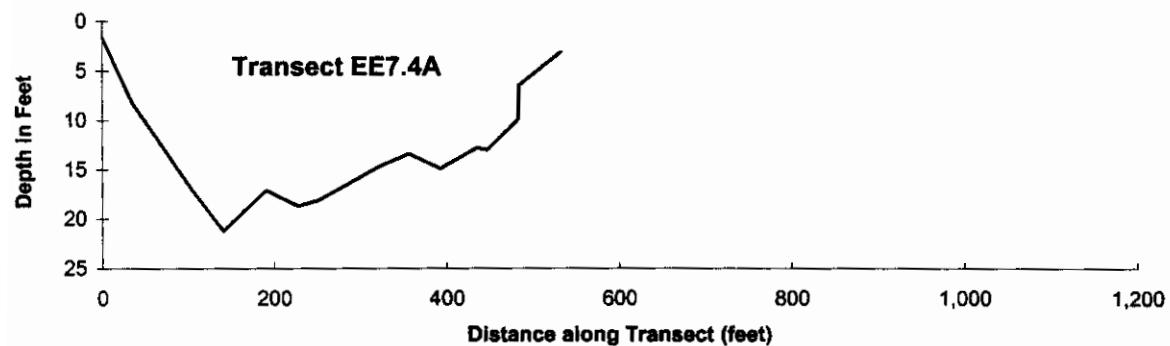
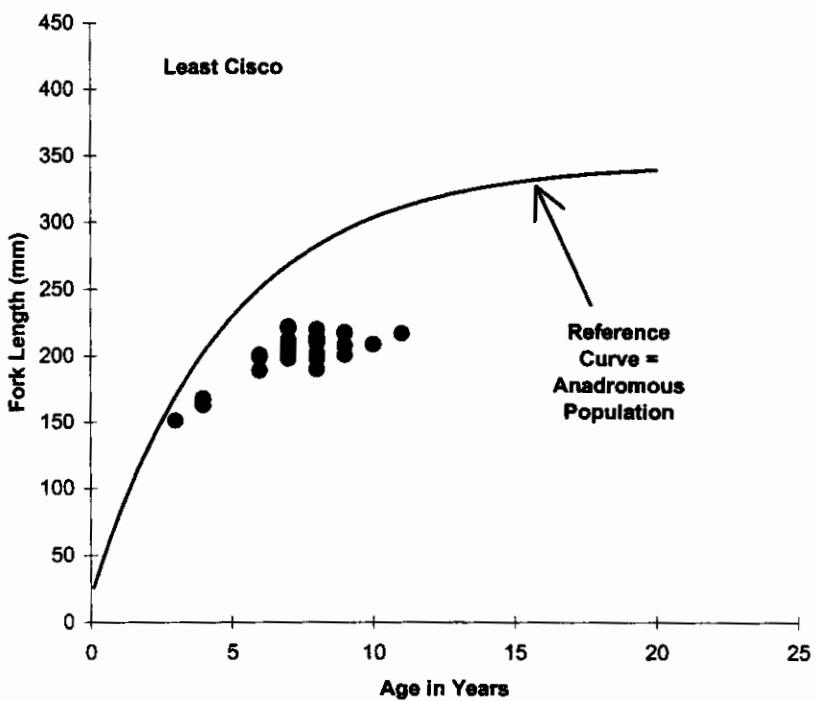
Water Quality:

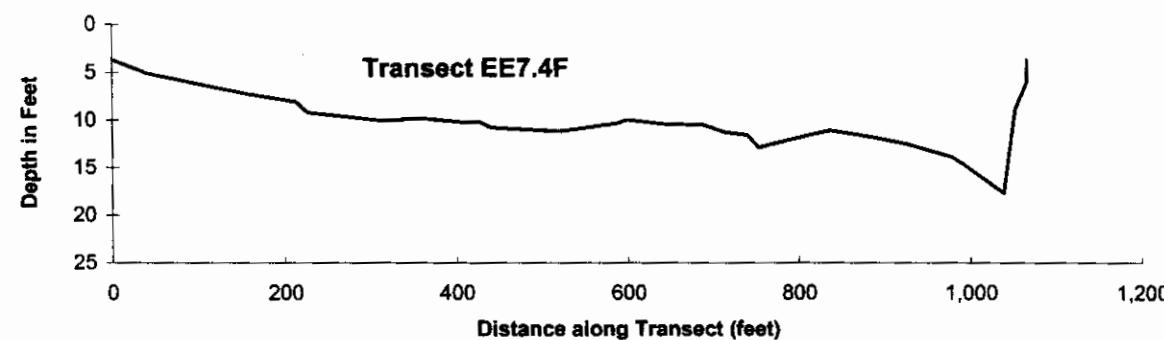
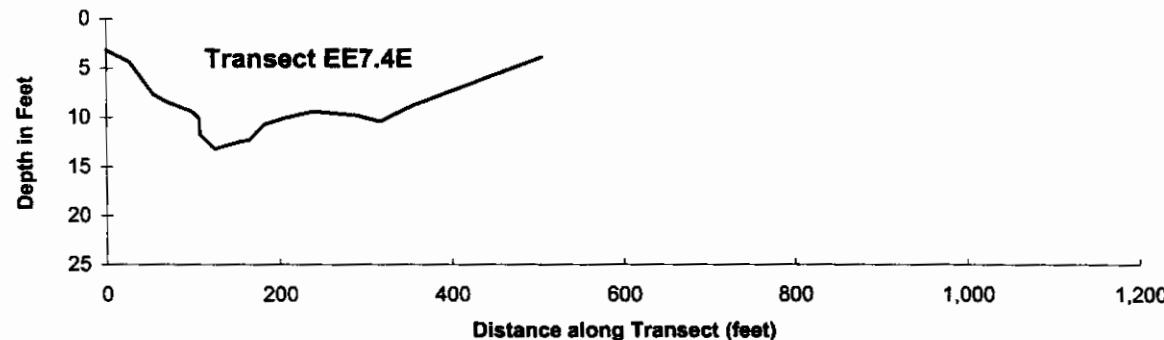
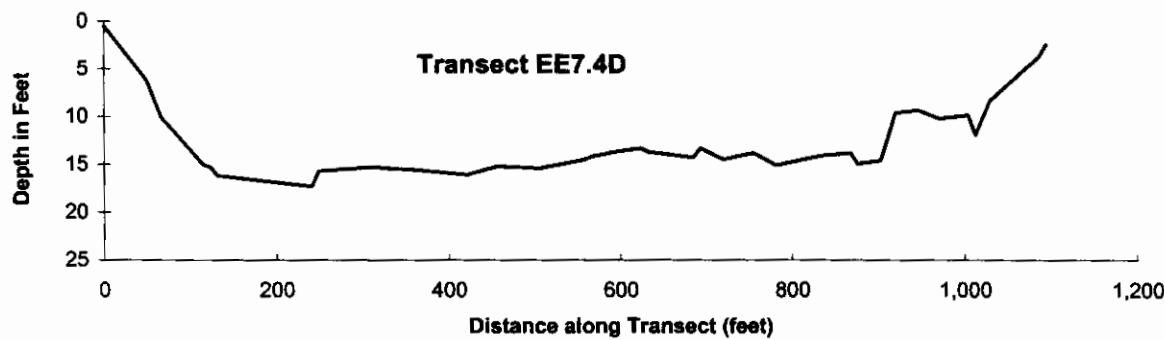
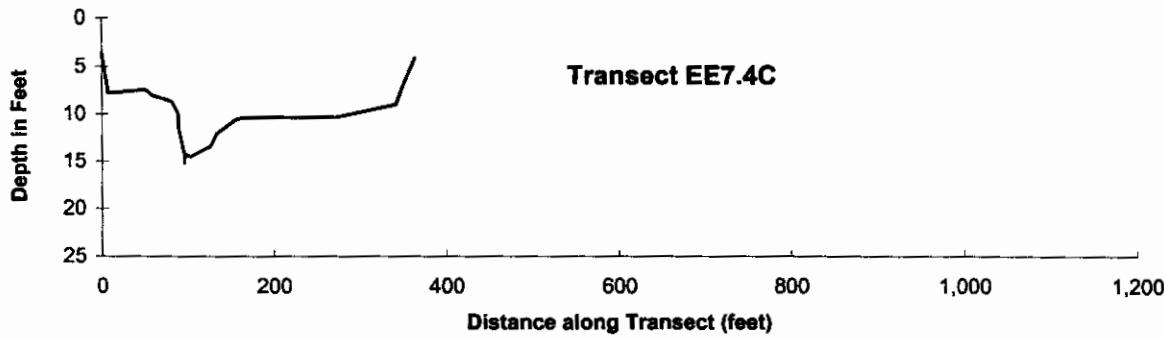
| Year of Test | Chloride (mg/l) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------|-----------------|---------------|------------------|----------------|--|-------------------------------|------------|
| 1996 | 2.94 | 3.3 | 2.72 | 20 | 61.4 | 48 | J. Lobdell |

Catch Record:

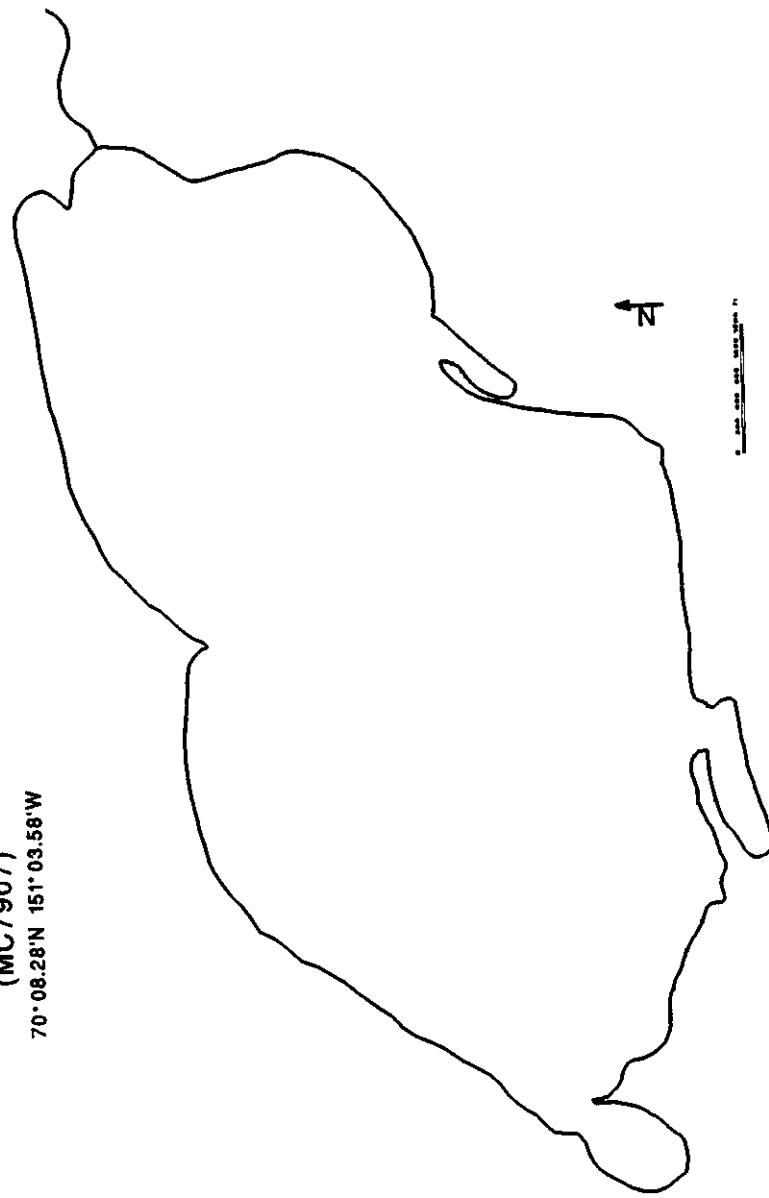
| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|----------|-----------|----------------|-----------------|---------------|------------------|
| Gill Net | Jul 25 96 | 11.7 | Broad whitefish | 4 | 248-594 |
| | | | Round whitefish | 1 | 392 |
| | | | Least cisco | 33 | 151-222 |







FF3.1
(MC7907)
70°08'28"N 151°03'58"W



Lake FF3.1

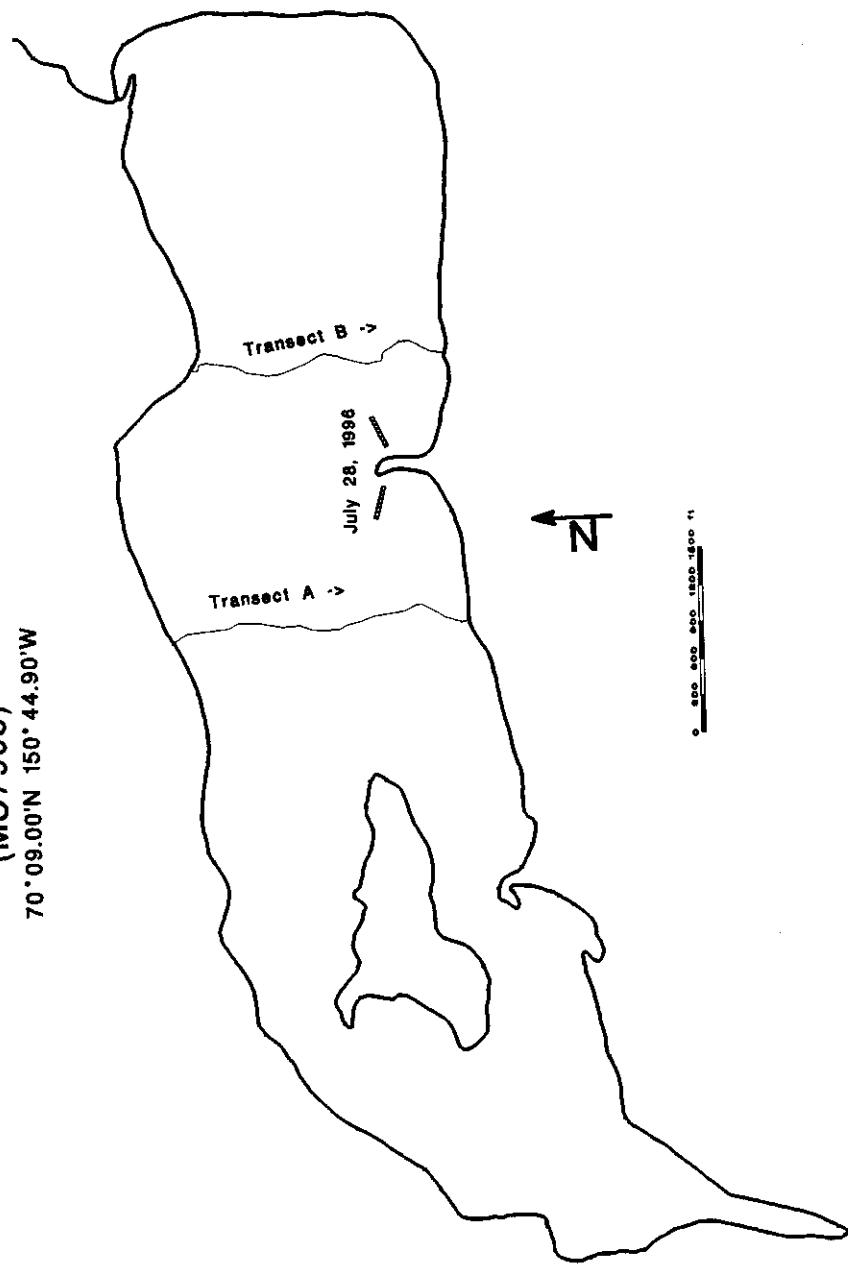
Other Names: MC7907
Location: 70°08.28'N 151°03.58'W
USGS Quad Sheet: Harrison Bay A-2: T9N R4E, Sect 14, 15
Habitat: Drainage Lake
Area: 1,308 acres
Maximum Depth: ? feet
Active Outlet: Yes
Calculated Volume: ? million gallons
Permittable Volume: ? million gallons

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|----------|----------|-------------------|-----------------|---------------|---------------------|
| Gill Net | Sep 6 79 | 65.2 | Broad whitefish | 27 | 109-495 |
| | | | Least cisco | 132 | 105-298 |
| | | | Round whitefish | 15 | 305-429 |
| | | | Burbot | 1 | 810 |
| | | | Longnose sucker | 1 | 380 |

Source of 1979 data: McElderry & Craig 1981

FF9.1
(MC7905)
70°09.00'N 150°44.90'W



Lake FF9.1

Other Names: MC7905
Location: 70°09.00'N 151°44.90'W
USGS Quad Sheet: Harrison Bay A-2: T9N R5E, Sect 12
Habitat: Drainage Lake?
Area: 526 acres
Maximum Depth: 7.6 feet
Active Outlet: Yes
Spec. Conductance: 116 $\mu\text{S}/\text{cm}$
Calculated Volume: 429.9 million gallons
Permittable Volume: 5.1 million gallons

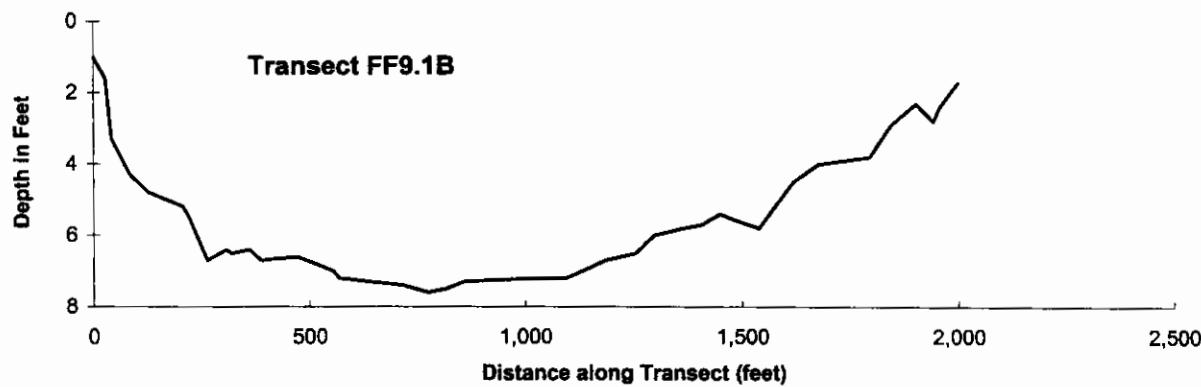
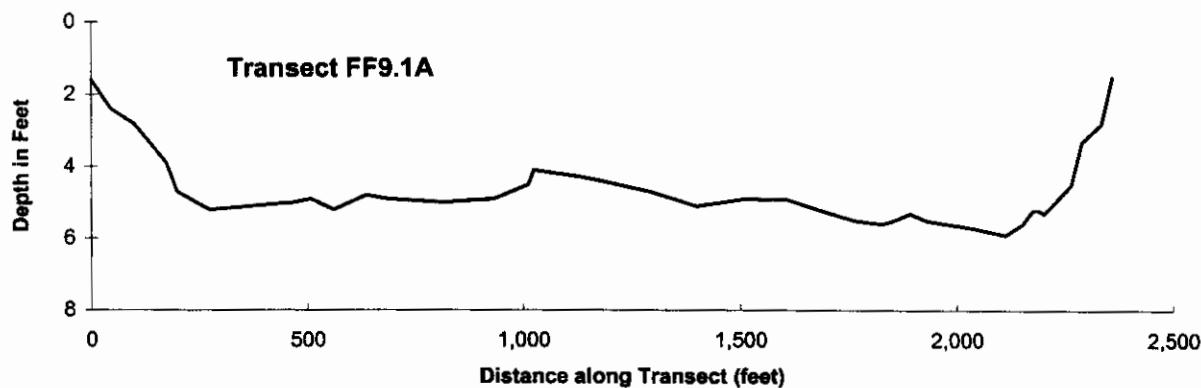
Water Quality:

| Year of Test | Chloride (mg/l) | Sodium (mg/l) | Magnesium (mg/l) | Calcium (mg/l) | Total Hardness [CaCO ₃] (mg/l) | Total Dissolved Solids (mg/l) | Source |
|--------------------|--------------------|------------------|---------------------|-------------------|---|--|------------|
| 1996 | 7.54 | 6.4 | 1.94 | 23.9 | 67.7 | 84 | J. Lobdell |

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|----------|-----------|-------------------|----------|------------------|
| Gill Net | Sep 6 79 | ? | no catch | 0 |
| Gill Net | Jul 28 96 | 12.7 | no catch | 0 |

Source of 1979 data: McElderry & Craig 1981



MC7916

70°17.95'N 151°27.39'W



0 300 600 900 1200 1500 ft

Lake MC7916

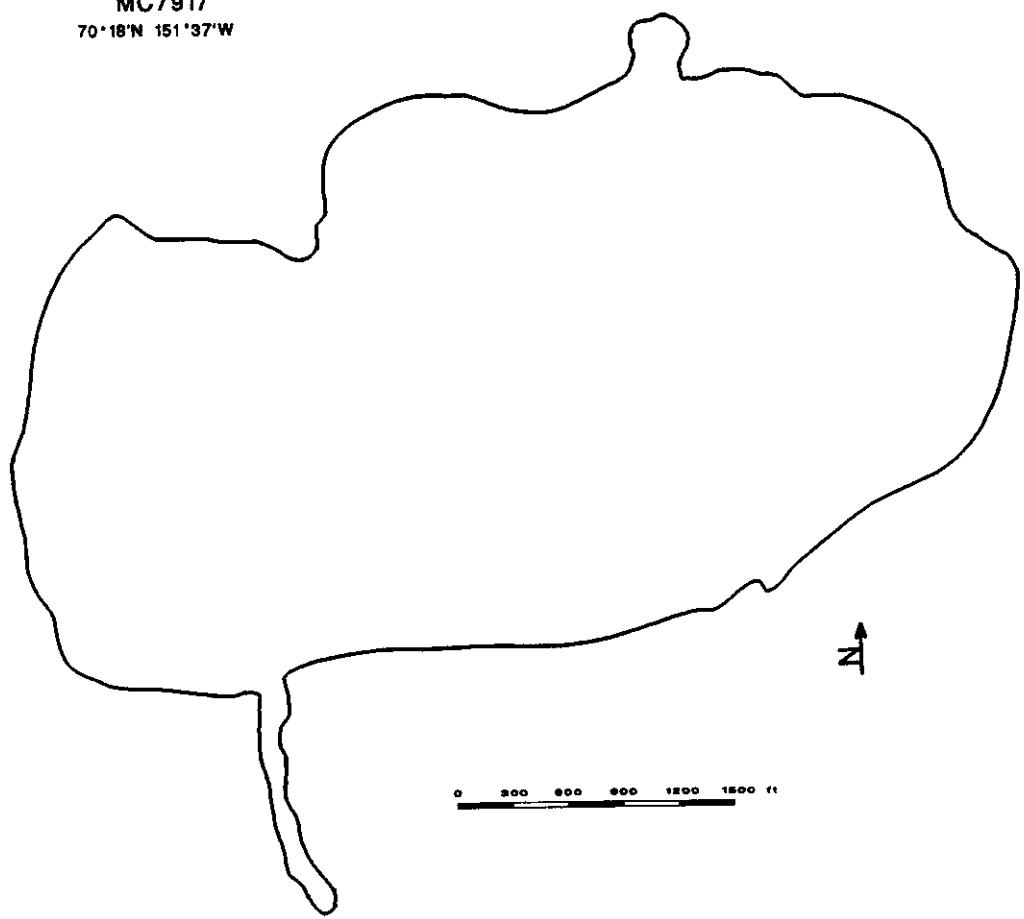
Other Names: none
Location: 70°17.95'N 151°27.39'W
USGS Quad Sheet: Harrison Bay B-3: T11N R3E, Sect 19
Habitat: Drainage Lake
Area: 418 acres
Maximum Depth: ? feet
Active Outlet: No
Calculated Volume: ? million gallons
Permittable Volume: ? million gallons

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|----------|----------|-------------------|-----------------|------------------|---------------------|
| Gill Net | Sep 9 79 | 25.0 | Broad whitefish | 8 | 96-206 |
| | | | Least cisco | 25 | 102-198 |
| | | | Arctic grayling | 2 | 132-182 |

Source of 1979 data: McElderry & Craig 1981

MC7917
70°18'N 151°37'W



Lake MC7917

Other Names: none
Location: 70°18'N 151°37'W
USGS Quad Sheet: Harrison Bay B-3: T11N R2E, Sect 24
Habitat: Drainage
Area: 290 acres
Maximum Depth: ? feet
Active Outlet: No
Calculated Volume: ? million gallons
Permittable Volume: ? million gallons

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught |
|----------|----------|-------------------|---------|------------------|
| Gill Net | Sep 9 79 | 25.0 | None | 0 |

Source of 1979 data: McElderry & Craig 1981

MC7918
70°24.67'N 151°27.72'W



Lake MC7918

Other Names: none
Location: 70°24.67'N 151°27.72'W
USGS Quad Sheet: Harrison Bay B-3: T12N R3E, Sect 18
Habitat: Tapped Lake
Area: 741 acres
Maximum Depth: ? feet
Active Outlet: Yes
Calculated Volume: ? million gallons
Permittable Volume: ? million gallons

Catch Record:

| Gear | Date | Effort (hours) | Species | Number Caught | Fork Length (mm) |
|----------|----------|-------------------|------------------|------------------|---------------------|
| Gill Net | Sep 9 79 | 24.6 | Broad whitefish | 6 | 91-97 |
| | | | Least cisco | 21 | 126-304 |
| | | | Round whitefish | 2 | 200-206 |
| | | | Fourhorn sculpin | 3 | |

Source of 1979 data: McElderry & Craig 1981