

Fisheries Habitat Evaluation on Tributaries of the Coeur D'Alene Indian Reservation

Coeur d'Alene Tribe Fish, Water, and Wildlife Program

**Annual Report
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Coeur d'Alene Tribe Fish, Water, and Wildlife Program

BPA Annual Report, 1998

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Coeur d'Alene Tribe Fish, Water, and Wildlife Program

BPA Annual Report, 1998

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Abstract

As part of an ongoing project to restore fisheries resources in tributaries located on the Coeur d'Alene Indian Reservation, this report details the activities of the Coeur d'Alene Tribe's Fisheries Program for FY 1997 and 1998. This report 1) analyses the effect introduced species and water quality have on the abundance of native trout in Coeur d'Alene Lake and selected target tributaries; 2) details results from an ongoing mark-recapture study on predatory game fish; 3) characterizes spawning habitats in target tributaries and evaluates the effects of fine sediment on substrate composition and estimated emergence success; and 4) provides population estimates for westslope cutthroat trout in target tributaries.

Low dissolved oxygen values in the hypolimnion of Coeur d'Alene Lake continue to be a cause for concern with regard to available fisheries habitat. Four sample sites in 1997 and eight sample sites in 1998 had measured levels of dissolved oxygen below what is considered optimum (6.0 mg/L) for cutthroat trout. As well, two sample points located north of the Coeur d'Alene River showed hypolimnetic dissolved oxygen deficits. This could lead to a more serious problem associated with the high concentration of heavy metals bound up in the sediment north of the Coeur d'Alene River. Most likely these oxygen deficits are a result of allochthonous input of organic matter and subsequent decomposition.

Sediment loading from tributaries continues to be a problem in the lake. The build up of sediments at the mouths of all incoming tributaries results in the modification of existing wetlands and provides ideal habitat for predators of cutthroat trout, such as northern pike and largemouth bass. Furthermore, increased sediment deposition provides additional substrate for colonization by aquatic macrophytes, which serve as forage and habitat for other non-native species.

There was no significant difference in the relative abundance of fishes in Coeur d'Alene Lake from 1997 to 1998. Four out of the six most commonly sampled species are non-native. Northern pikeminnow and largescale suckers are the only native species among the six most commonly sampled. Northern pikeminnow comprise 8-9% of the electroshocking catch and 18-20% of the gillnet catch. Largescale suckers comprise 24-28% of the electroshocking catch and 9-21% of the gillnet catch. Cutthroat trout and mountain whitefish, on the other hand, comprise less than 1% of the catch when using electroshocking methods and about 1.4% of the gillnet catch.

Since 1994, the Coeur d'Alene Tribe Fish, Water and Wildlife Program has conducted an extensive mark-recapture study (Peters et al. 1999). To date, 636 fish have been tagged and 23 fish have been recaptured. We are finding that northern pike have a tendency to migrate from the original sampling site, while largemouth bass appear very territorial, rarely moving from the site where they were tagged. Both species are most commonly associated with shallow, near-shore habitats, where the potential for encountering seasonal migrations of cutthroat trout is maximized.

Low-order tributaries provide the most important spawning habitat for cutthroat trout on the Reservation. The mapped distribution of potentially suitable spawning gravel was patchy and did not vary considerably within reaches or between watersheds. Furthermore, the quantity of spawning gravel was low, averaging just 4.1% of measured stream area. The lack of a strong association between spawning gravel abundance and several reach characteristics (gradient, proportion of gravel and pea gravel) corroborates the findings of other authors who suggest that local hydrologic features influence spawning gravel availability. Although the distribution of spawning substrate was patchy within the target watersheds, there is probably adequate habitat to support resident and adfluvial spawners because of currently depressed numbers.

Spawning gravels in target tributaries of the Reservation contained proportions of fine sediments comparable to those in egg pockets of salmonid redds in the Rocky Mountain region. At 23 of 29 sample sites, low levels of fine sediment led to high predictions of overall embryo survival (mean = 28.4%). The estimates of fry production potential at sample sites ranged widely (0.0 to 31.2 fry/100 square meters) due, primarily, to the quantity of suitable gravels present. Only in the mainstem of Lake Creek were the proportions of both small and coarse fines considered above the levels for these particle sizes (10% and 30%, respectively) shown to adversely affect salmonid emergence success. Of the 6 sites where high levels of small or coarse fines were recorded, only the sites located in the mainstem of Lake Creek showed supporting evidence for low recruitment. The other sites had juvenile and adults densities (range = 12.4 – 33.8/100 square meters) that were notably higher than the average density (9.2/100 square meters) reported for seven other westslope cutthroat trout populations in Idaho and Montana. The habitat areas that supported higher than average trout densities, however, comprise relatively small fractions of the available habitat in the respective watersheds.

Due to the persistence of adverse water quality and habitat conditions in Reservation streams, cutthroat trout populations are thought to be at least moderately damaged. The average spawning escapements fall between the minimum viable population and the number of adults needed to produce 50% of the carrying capacity of the stream environment. None of the populations on the Coeur d'Alene Reservation are thought to be greater than or equal to 50% of the historic potential. These weakened populations may be particularly susceptible to normal environmental variability (such as temperature and stream discharge patterns) and to the frequency of extreme events such as wildfires, floods, or debris torrents. On the other hand, very little hybridization has occurred, suggesting that preservation of the existing genetic diversity may continue to allow for genetic combinations that permit survival in highly variable environments.

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1.0 Introduction

The recent decline in native salmonid stocks, in particular cutthroat trout (Oncorhynchus clarki lewisi, Richardson) and bull trout (Salvelinus confluentus, Walbaum) throughout the Coeur d'Alene basin has eliminated the subsistence fisheries for the Coeur d'Alene Tribe. Historically, the Coeur d'Alene Tribe depended on runs of anadromous salmon and steelhead along the Spokane River and Hangman Creek, as well as resident and adfluvial forms of trout and char in Coeur d'Alene Lake. Dams constructed on the Spokane River at Monroe Street in the City of Spokane and at Little Falls further downstream, were the first dams that initially cut-off the anadromous fish runs from the Coeur d'Alene Tribe. These fisheries were further removed by the construction of Chief Joseph and Grand Coulee Dams on the Columbia River. Together, these actions forced the Tribe to rely solely on the resident fish resources of Coeur d'Alene Lake (Staff Communication).

Many factors contributed to the decline of native salmonid fish stocks in the Coeur d'Alene Basin. These factors include: construction of dams along the Spokane and Columbia Rivers, pollution caused by mining and municipal waste, increases in logging and agricultural activities and species interactions between introduced and native fish species in Coeur d'Alene Lake. Post Falls Dam, built on an exiting natural migration barrier in 1906 to supply hydroelectric power to the growing community, raised the water level of Coeur d'Alene Lake by approximately 3.6 meters. This higher lake level inundated traditional Coeur d'Alene Tribal fish traps like the one operated on the St. Joe River at Mission Point for over 50 years (Scholz et al. 1985) and forever changed the physical and hydrologic characteristics of Coeur d'Alene Lake. The higher lake level created conditions that favored introduced species, as well as, native species other than salmonids.

Fisheries Management History of the Coeur d'Alene System

Scholz et al. (1985) estimated that historically the Coeur d'Alene Indian Tribe harvested around 42,000 cutthroat per year. In 1967, Mallet (1968, 1969) reported that 3,329 cutthroat were harvested from the St. Joe River, and a catch of 887 was reported from Coeur d'Alene Lake. This catch is far less than the 42,000 fish per year the tribe harvested historically. Today, only limited opportunities exist to harvest cutthroat trout. Within the Reservation boundaries Lake Creek and its tributaries and Benewah Creek and its tributaries are closed to all fishing until further notice. Both of the above closures extend 100 yards into Coeur d'Alene Lake from the mouth of the respective streams. Bull trout were listed as threatened under the Endangered Species Act in 1998, eliminating harvest opportunities for this species. In other portions of the Spokane River basin, including Coeur d'Alene Lake, only one cutthroat trout over 14" may be harvested per day. The Coeur d'Alene Lake system has three very distinct stocks of cutthroat trout. They are adfluvial-lacustrine, fluvial and resident. Peters et al. (1999) and Graves et al. (1990) have a more detailed description of the different stock types.

In an attempt to diversify the fishery in Coeur d'Alene Lake and offset losses to native trout fisheries, kokanee salmon (Oncorhynchus nerka, Walbaum) were introduced into the Coeur d'Alene Lake system in 1937. As kokanee salmon numbers began to increase and stocking was no longer necessary they soon became the most abundant and sought after fish in the lake. By 1967, total harvest of kokanee salmon from Coeur d'Alene Lake was second only to Pend Oreille Lake within the State of Idaho. However, kokanee soon reached their carrying capacity within the lake and in 1982, the Idaho Department of Fish and Game introduced chinook salmon (Oncorhynchus tshawytscha, Walbaum) in an attempt to control the burgeoning yet stunted kokanee population. A hatchery run of chinook salmon was established in Wolf Lodge Creek. Attempts were made to control the establishment of naturally reproducing populations of chinook salmon in the lakes' tributaries, however, chinook salmon became established in both the Coeur d'Alene and St. Joe River systems. It is unclear what impacts spawning and rearing chinook salmon have or will have on native trout species.

In 1987, the Northwest Power Planning Council (NPPC) amended the Columbia River Basin Fish and Wildlife Program to include baseline stream survey of tributaries located on the Coeur d'Alene Indian Reservation [section 903 (g)(1)(B)]. Initial studies conducted in 1990 by the Coeur d'Alene Tribe identified twenty-one Reservation streams flowing into Coeur d'Alene Lake, the St. Joe River and the St. Maries River as having potentially suitable habitat for trout species. Data obtained from a subsequent aerial survey prioritized ten of the original twenty-one survey streams for further study, based geographic location, accessibility by trout, and acceptable gradient and habitat (Graves et al. 1990). After compiling data on trout abundance and distribution, growth rates, and benthic macroinvertebrate densities, four tributary streams including Lake, Benewah, Evans and Alder Creeks were selected as having the highest potential for improvement and enhancement. See Graves et al. (1990) and Lillengreen et al. (1993) for further discussions of the past history of the study area.

In 1994, the NPPC adopted the recommendations set forth by the Coeur d'Alene Tribe to improve the Reservation fisheries. These actions included: 1.) Implement habitat restoration and enhancement measures in Lake, Benewah, Evans, and Alder Creeks; 2.) Purchase critical watershed areas for protection of fisheries habitat; 3.) Conduct an educational/outreach program for the general public within the Coeur d'Alene Indian Reservation to facilitate a "holistic" watershed protection process; 4.) Develop an interim fishery for Tribal and non-Tribal members on the Reservation through construction, operation and maintenance of five trout ponds; 5.) Design, construct, operate and maintain a trout production facility; and 6.) Implement a five-year monitoring program to evaluate the effectiveness of the hatchery and habitat improvement projects. These principles, priorities, and objectives were also adopted into the 1995 Fish and Wildlife Program (Section 10 Resident Fish, see paragraph 10.8B.20).

Subsequent studies by the Coeur d'Alene Tribe have determined that the following factors effectively limit the population of cutthroat trout in natal streams and in Coeur d'Alene Lake:

- Stochastic events that result in increased mortality of embryo, fry, and juvenile lifestages (e.g. peak flow events) have been exacerbated by land use practices during the last 60 years;
- Competition for limited space and food during base flow conditions cause displacement of juveniles into water quality limited stream reaches;
- Competitive interactions with introduced salmonids may result in replacement of native trout in Alder Creek and Benewah Creek;
- Water temperatures in the upper ten meters of the water column in Coeur d'Alene Lake exceed the optimum as described in the Habitat Suitability Index for cutthroat trout;
- Sediment loading from tributaries in combination with large quantities of aquatic macrophyte growth and low dissolved oxygen concentrations in the hypolimnion promote conditions more favorable for introduced fish species in the lake; and
- Competitive interactions with introduced species for food, living space, and through predation limit cutthroat trout in both the littoral and limnetic zones of Coeur d'Alene Lake.

Spikes in peak flows exceeded the sheer stress for spawning gravels (5-cm geometric mean particle diameter) during the cutthroat trout egg incubation period in some tributaries during the last few years (Peters et al. 1999). It is conceivable that flow events of this magnitude could scour trout redds and result in complete year class failures. Water quality has been sampled on the four target tributaries since 1990 and studies show that conditions have remained fairly consistent for dissolved oxygen, temperature, pH and conductivity (Graves et al. 1990; Lillengreen et al. 1993 and 1996; Peters et al. 1999). Temperature appears to be the factor that is most influencing cutthroat trout production in the streams. All streams exceeded the optimum limit of 15.5° C for cutthroat trout during low flow periods in each of the last nine

years. Today, there are 21 identified fish species in Coeur d'Alene Lake. Of these 21, only seven are native to Coeur d'Alene Lake. They include cutthroat trout, bull trout, mountain whitefish (*Prosopium williamsoni*, Girard), sculpin (*Cottus sp.*), (there may be more than one species of sculpin in the lake), northern pikeminnow (*Ptychocheilus oregonensis*, Richardson), largescale sucker (*Catostomus macrocheilus*, Girard), and longnose sucker (*Catostomus catostomus*, Forster). For a list of the 14 non-native species and their scientific names see Peters et al. (1999).

Current Study Objectives

Objective 1: Estimate fisheries relative abundance in Coeur d'Alene Lake using electroshocking and gillnetting.

Tasks 1.1 Measure all fish species for length and weight, and take scale samples from game fish.

Objective 2: Examine the effects of introduced fishes on native species of cutthroat and bull trout in Coeur d'Alene Lake.

Tasks 2.1 Correlate population statistics with data on habitat types.

Objective 3: Conduct population estimates in Coeur d'Alene Lake using mark-recapture techniques.

Tasks 3.1 Game fish that are greater than 300g and/or 300mm mark with a floy tag to obtain density estimates and monitor movement.

Objective 4: Examine the age structure of sampled fish from scales taken during sampling periods.

Tasks 4.1 Scale data will be used to monitor the status of successive cohorts.

Objective 5: Continue collecting baseline water quality data on Coeur d'Alene Lake.

Tasks 5.1 Nutrients, total kjeldahl nitrogen, total phosphorus, turbidity, total suspended solids, metals and chlorophyll_a will be sampled.

Tasks 5.2 Dissolved oxygen, temperature, pH, conductivity, depth and secchi readings will be taken.

Objective 6: Examine the effects of water quality parameters on the abundance and distribution of westslope cutthroat trout in target tributaries.

Tasks 6.1 Continue monitoring stream discharge, dissolved oxygen, temperature, pH and conductivity at selected sites in Alder, Benewah, Evans and Lake creeks.

Objective 7: Determine if fine sediment is limiting recruitment of cutthroat trout populations in target tributaries.

Tasks 7.1 Characterize spawning habitats of cutthroat trout in areas annually sampled for population estimation.

Tasks 7.2 Evaluate effects of sedimentation on substrate composition and estimated emergence success.

Objective 8: Characterize the abundance and distribution of westslope cutthroat trout and brook trout in target tributaries and compare results with previous sample efforts.

Tasks 8.1 Develop population estimates for selected sites using electroshocking techniques.

Tasks 8.2 Examine age class structure of resident trout.

Tasks 8.3 Monitor immigration and emigration of cutthroat trout in Lake and Benewah Creeks.

Study Area

The Coeur d'Alene Indian Reservation encompasses 139,005 hectares (343,478 acres) in the panhandle section of north Idaho. Many lakes, streams, and rivers are located on the Reservation. The principle waterbody on the Reservation is Coeur d'Alene Lake. Coeur d'Alene Lake is the second largest lake in Idaho and is located within the 1,730,023-hectare (4,274,888 acres) Spokane River drainage basin. The lake lies in a naturally dammed river valley with the outflow currently controlled by Post Falls Dam. Post Falls Dam also controls the level of the St. Joe River upstream to the town of St. Maries. At full pool (lake elevation 648.7 meters) the lake covers 129 square kilometers and at minimum pool level (lake

elevation of 646.2 meters) the lake covers 122 square kilometers. The lake is 43 kilometers long and anywhere from 2 to 10 kilometers wide. Mean depth is 22 meters with a maximum depth of 63.7 meters (Woods and Berenbrock 1994). The lake is located in two Idaho counties: Kootenai and Benewah. Population centers around the lake are located on the northern most shoreline (Coeur d'Alene) and at the mouth of the Coeur d'Alene River (Harrison). The city of Coeur d'Alene is the largest in Kootenai County and Harrison is the second largest in Benewah County. The largest town in Benewah County (St. Maries) lies about 12 miles upstream of Coeur d'Alene Lake on the St. Joe River.

The two main tributaries of Coeur d'Alene Lake, the Coeur d'Alene and St. Joe Rivers, drain the Coeur d'Alene and St. Joe Mountains. These mountains are composed of primarily metasedimentary rocks of the belt group with local intrusions of granitics. Lower elevations are composed primarily of glaciofluvial deposits. This area receives some of the highest amounts of precipitation in Idaho. The lake receives about 25.4 inches of precipitation annually with more in the higher elevations around the lake (38.3 inches Wallace, ID). The southern end of Coeur d'Alene Lake is made up of four shallow lakes (Hidden, Round, Chatcolet, and Benewah) flooded as a result of construction of Post Falls Dam. Geological data was taken from U.S. Department of Agriculture (1984).

The four tributaries selected for restoration are located almost exclusively on the Reservation and have a combined basin area of 34,853 hectares (86,123 acres) and include 529 kilometers (328 miles) of intermittent and perennial stream channels. The climate and hydrology of the target watersheds are similar in that they are influenced by the maritime air masses from the pacific coast, which are modified by continental air masses from Canada. Summers are mild and relatively dry, while fall, winter, and spring brings abundant moisture in the form of both rain and snow. A seasonal snowpack generally covers the landscape at elevations above 4,500 feet from late November to May. Snowpack between elevations of 3,000 and 4,500 feet falls within the "rain-on-snow zone" and may accumulate and deplete several times during a given winter due to mild storms (US Forest Service 1998). The precipitation that often accompanies these mild storms is added directly to the runoff, since the soils are either saturated or frozen, causing significant flooding.

Anthropogenic disturbances are common in the target watersheds. Recent clearing of land for homesteads, logging, pasture, and agriculture has enhanced the rain-on-snow phenomenon and accelerated the rate of snow pack depletion. In Lake Creek for example, where nearly 40 percent of the basin area has been cleared for agriculture, peak discharges have increased by an estimated 55% for 100-year events when compared with the pre-settlement period (Peters et al. 1999). Lesser amounts of forest clearing have occurred in the other target watersheds, suggesting measurable increases in peak discharges for these areas as well. One of the more profound disturbances that the watersheds have been subjected to is from road construction. The road network includes five state highways, numerous county and municipal roads, and an extensive network of unimproved roads. Those areas with the highest density of roads occur on lands managed primarily for timber production. This road system has been constructed in many of the most sensitive locations (floodplains, and unstable land types) within the watersheds. The density of unimproved roads exceeds 2.5-miles/mile² in each of the affected watersheds.

2.0 Materials and Methods

2.1 Lake Studies

2.1.1 Water Quality

There are five distinct habitat areas in the southern third of Coeur d'Alene Lake that can be distinguished based on geomorphologic condition. The first of these areas is comprised of two shallow water stations

Coeur d'Alene Lake Water Quality Sites

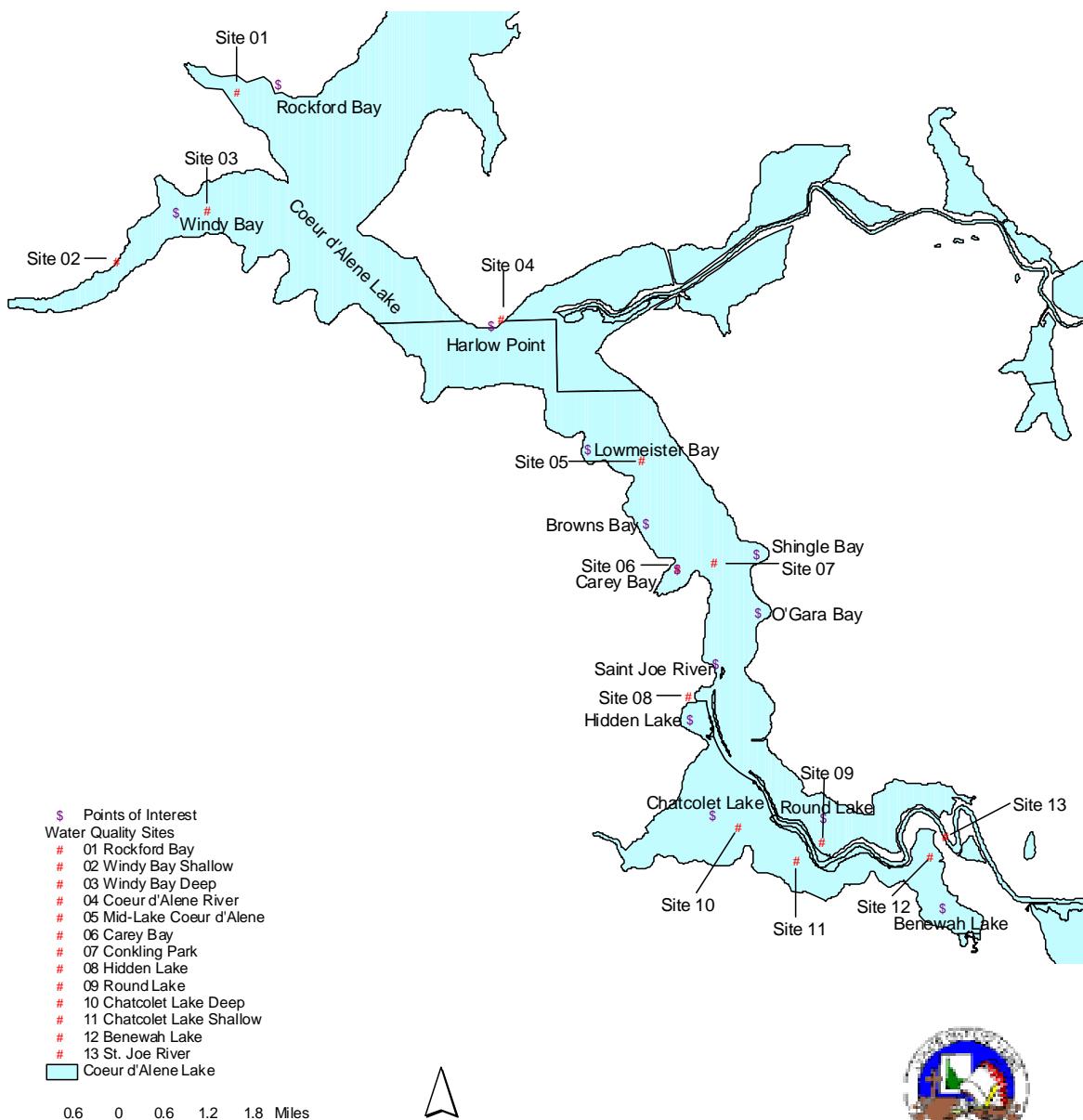


Figure 2.1 Water quality sites on Coeur d'Alene Lake, 1997 and 1998.

created entirely by inundation from Post Falls Dam. This area is dry during the drawdown period and wetted at full pool. The second habitat area is comprised of the three shallow, southern chain lakes of the St. Joe River. These lakes were separated from the Coeur d'Alene Lake system until the completion of Post Falls Dam. The third area consists of three deep, open water sections within the main body of Coeur d'Alene Lake. These areas are considered pelagic in nature. The fourth habitat area consists of three semi-isolated shallow bay areas located in the main Coeur d'Alene Lake. The fifth area is riverine habitat inundated by waters from Post Falls Dam.

A total of thirteen monitoring stations have been established to cover each distinct habitat area (Figure 2.1 and Table 2.1). Combinations of field and laboratory analytical methods were used to sample Coeur d'Alene Lake. See Peters et al. (1999) for a further description on the physical and chemical parameters being sampled as well as, methods used for sampling. A Hydrolab (trade name for a multi-parameter testing probe) was used to get vertical profiles of dissolved oxygen, temperature, pH and conductivity. A kemmerer bottle was used for sampling all other parameters except for water clarity, where a secchi disk was used.

2.1.2 Fisheries

The southern section of Coeur d'Alene Lake from Windy Bay south has twelve transect sampling areas that can be grouped based on similar geomorphology (Figure 2.2). Each transect is broken into sample reaches that encompass all habitat types within the transect. Each transect has from 1 to 4 sample reaches. The reach locations were determined by visual habitat characteristics and transect size. These reaches were chosen in order to best represent the shoreline habitat within the transect area. The collective submerged habitat within all reaches spans the range of conditions within each transect area (Peters et al. 1999).

Table 2.1 Water quality sample stations grouped by habitat area.

| Habitat Area | Stations |
|----------------------|--|
| Shallow Water | Round Lake Chatcolet Lake Shallow |
| Southern Chain Lakes | Benewah Lake Chatcolet Lake Hidden Lake |
| Interior Bays | Carey Bay Windy Bay Shallow Rockford Bay |
| Open Water | Conkling Point Mid Lake Windy Bay Deep |
| Inundated Rivers | Coeur d'Alene River St. Joe River |

Shoreline Electrofishing

The sampling schedule for electroshocking and gillnetting is designed to capture data related to significant changes in relative abundance of various fish species throughout the year. A custom-built aluminum boat equipped with a Smith Root 7.5 GPP electroshock unit was used to conduct shoreline electrofishing. This technique is most effective in water less than 8 feet deep. Each reach was sampled for 5-10 minute, depending on fish density. After completion of the shocking effort, all captured fishes were measured for total length and weight, with scale samples taken only from game species.

Coeur d'Alene Lake Fish Sampling Sites

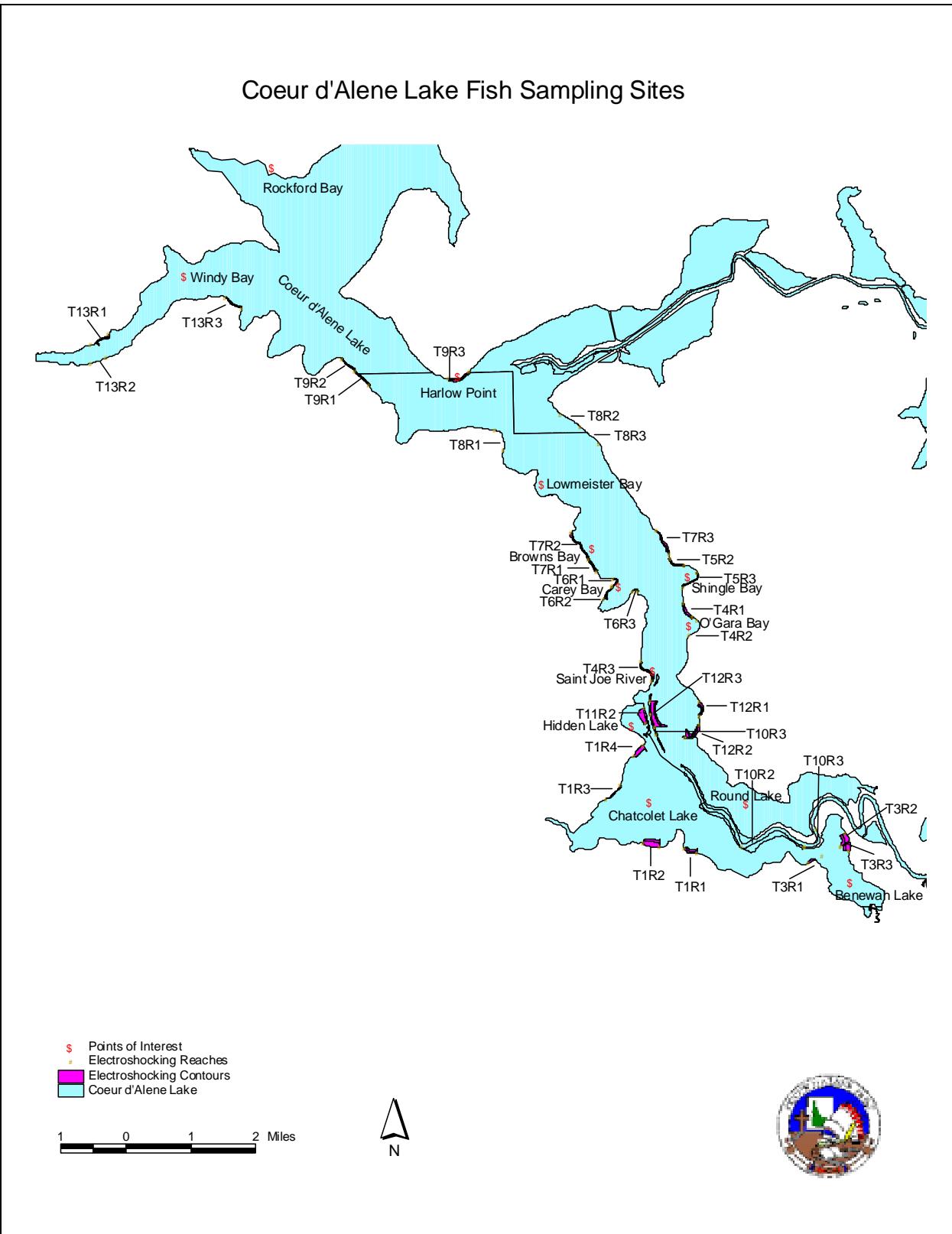


Figure 2.2 Electroshocking and gillnet sites on Coeur d'Alene Lake, 1997 and 1998.

Gillnet Sampling

Nets were used to sample areas that could not be efficiently sampled using the electrofishing technique, and helped examine species composition as well as seasonal usage in the littoral and limnetic zones. Two different types of nets were used for sampling fish in different habitat areas. Vertical gillnets were used in areas with water depths greater than 30 feet (pelagic zones), while horizontal gillnets were used in shallow areas (8-30 feet deep). The vertical gillnets were 6 feet wide and 120 feet in length with mesh sizes of 2.5", 3", 4", and 5 inches. Horizontal gillnets were made of graded mesh monofilament 8'X200', 10'X200' and 12'X150'. Data recorded following the sample effort included depth of capture, total length, weight and scale samples.

Age Analysis

Age was determined for all game species captured using methods described by Jearld (1983). Age frequency distributions were plotted for each species to describe the status of successive cohorts. By examining age frequency over time, instances of mortality as well as overall population trends will be identifiable.

Habitat Suitability Index

The lacustrine habitat suitability index model developed by Hickman and Raleigh (1982) was used to predict suitable habitat for cutthroat trout in Coeur d'Alene Lake. The model consists of a water quality and a reproduction component. The lacustrine water quality component uses three variables: maximum temperature (V_1), average minimum dissolved oxygen (V_3) and pH (V_{13}). Individual suitability index (SI) values were calculated for each variable using curves published in Hickman and Raleigh (1982). The following equation was used to ascertain the final SI values:

$$C_{wq} = (V_1 \times V_3 \times V_{13})^{1/3}$$

Where C_{wq} = HSI for the water quality component, and
 V_n = suitability index for water quality variables.

2.2 Stream Studies

2.2.1 Water Quality

Water quality monitoring was conducted on 13 streams in 1997 (Table 2.2). Each stream was sampled for the same parameters as described above for lake studies, except for chlorophyll_a. Metals analyses were only completed at the two Fighting Creek sample sites. Additional monitoring parameters are described below.

A stage/discharge relationship was developed for each stream based on a linear regression of staff gauge height vs. stream discharge. The rating curve was used to determine the annual water budget for each stream sampled. Staff gauge heights were recorded to the nearest 0.002 of a foot. Discharge measurements were taken at low, medium, and high flows in order to complete the rating curve. Discharge measurements were taken in accordance with standard IFIM methodologies (Bovee 1982). The wetted stream channel was divided into 20 equal cells and water velocity was measured in each cell using a Price model 622 digital flow meter. Discharge for each cell was calculated by multiplying the cell width by depth and velocity. All individual cell discharges were summed to determine total discharge in cubic feet per second. Channel profiles were measured to evaluate changing flow dynamics over time.

2.2.2 Spawning Gravel Survey and Analysis

Potential spawning tributaries were identified over the past six years based on trapping results and population surveys. Active migration into tributaries by adult fish and/or presence of young-of-the-year trout was used as an indication of spawning activity for the purposes of this survey. Habitat features and the area of potential spawning gravel were measured at established shock sites in each tributary.

Table 2.2 Stream water quality sites and monitoring parameters, 1998.

| Location | Discharge | Temperature | DO | pH | Conductivity | Turbidity | TSS | Metals | Nutrients |
|----------------------------|-----------|-------------|----|----|--------------|-----------|-----|--------|-----------|
| Lower Plummer Creek | X | X | X | X | X | X | X | | X |
| Little Plummer Creek | X | X | X | X | X | X | X | | X |
| Lower Lake Creek | X | X | X | X | X | X | X | | X |
| Upper Lake Creek | X | X | X | X | X | X | X | | X |
| Lower Fighting Creek | | X | X | X | X | X | X | X | X |
| Upper Fighting Creek | | X | X | X | X | X | X | X | X |
| Evans Creek ^a | X | X | X | X | X | X | X | | X |
| East Fork Evans | X | X | X | X | X | X | X | | X |
| Cherry Creek | X | X | X | X | X | X | X | | X |
| Benewah Creek ^b | X | X | X | X | X | X | X | | X |
| Windfall Creek | X | X | X | X | X | X | X | | X |
| School House Creek | X | X | X | X | X | X | X | | X |
| West Fork Benewah Creek | X | X | X | X | X | | | | |
| North Fork Alder | X | X | X | X | X | X | X | | X |
| Alder Creek | X | X | X | X | X | X | X | | X |
| Hangman Creek | X | X | X | X | X | X | X | | X |
| Little Hangman Creek | X | X | X | X | X | X | X | | X |
| Indian Creek | X | X | X | X | X | X | X | | X |
| Moctileme Creek | X | X | X | X | X | X | X | | X |
| North Fork Rock Creek | X | X | X | X | X | X | X | | X |

^aEvans Creek had two sampling stations, Evans and Upper Evans.

^bBenewah Creek had two sampling stations, Three Mile and Upper Benewah.

Habitat features were measured according to the procedures described by Hankin and Reeves (1988). Proceeding upstream, we described each channel unit (pool, riffle, etc.) and measured its length, mean wetted width, and mean and maximum depths. The area of potential spawning gravel was measured with a meter stick and expressed as a percent of the total surface area at bank full flow. Potential spawning gravel was defined according to Magee et al. (1996) as patches of substrate at least 0.25 m² in area with particles 2-35 mm in diameter. In pool tailouts and riffles, we measured substrate composition with the pebble count technique (Wolman 1954), using 100 data points at each site. Substrate was classified as sand-silt (<2 mm in diameter), pea gravel (2-16 mm), gravel (17-64 mm), rubble (65-128 mm), cobble (129-256 mm), or boulder (>256 mm).

To quantify substrate conditions near the time of emergence, we collected core samples using a McNeil hollow-core sampler (Platts et al. 1983) from pockets of potentially suitable spawning gravel. Cores were taken to a depth of 10-20 cm to mimic egg pocket depths observed in cutthroat trout redds (Magee et al. 1996). Oven-dried samples were weighed after being mechanically shaken through sieves of 63.5, 31.5, 16, 8, 6.3, 4.75, 2.0, 1.0, 0.85, 0.5, 0.125, and 0.25 mm. As recommended by Chapman (1988) and Young et al. (1991), we expressed substrate composition by two methods: the percentage of fine substrate smaller than a given size (6.3 and 0.85 mm), and by a measure of central tendency, the fredle index ($F_i = D_g/S_o$; where D_g is the geometric mean particle diameter and S_o is a sorting coefficient).

We predicted fry emergence success for each core sample using the equation developed by Weaver and Fraley (1993; Weaver personal communication, 2000) for westslope cutthroat trout:

$$\% \text{ emergence} = -1.503 * \text{arcsine} (\% \text{ SP}_{6.3})^{0.5} + 79.379$$

where, SP_{6.3} = percentage of substrate particles smaller than 6.3 mm.

The maximum fry production potential for each shock reach was estimated by combining data on potential redd number, estimated egg deposition, and average substrate composition of core samples. Egg deposition (E) was calculated using a length-fecundity relation for westslope cutthroat trout:

$E = 82.63e^{0.007958L}$, where L is fork length in millimeters (C. Downs and B. Shepard, Montana State University, personal communication). The average fork length for adfluvial females (310 mm), as

measured at migration traps over the last four years, was used in the equation. Fry production was estimated by multiplying total estimated egg deposition by estimated emergence success.

2.2.3 Population Survey

The channel types delineated during previous surveys (Lillengreen, 1993) served as the basic geomorphic units for selecting sample sites for conducting fish population surveys. In these early channel type surveys, stream reaches were classified into relatively homogeneous types according to broad geomorphologic characteristics of stream morphology as defined by Rosgen (1994). Sample sites within each reach were selected to include habitat types representative of the reach as a whole (Figures 2.3 – 2.6). The length of each sample unit was defined as twenty times the average stream width, with a minimum sample distance of 100 meters. Longer stream reaches were sampled more intensively than shorter reaches. Sample sites were also selected in each of the tributaries known to have spawning activity, regardless of whether channel type surveys had been completed. In these cases, sample sites were distributed evenly at approximately 1,500 meter intervals.

Sites were sampled in the summer to quantify the abundance and distribution of fishes during base flow conditions (June 26 – August 12). Trout populations were estimated using the removal-depletion method (Seber and LeCren 1967, Zippen 1958). Blocknets were placed at the upstream and downstream boundaries to prevent immigration and emigration. Each sample site was electrofished using the standard guidelines and procedures described by Reynolds (1983). Fish were collected by spot shocking using a Smith-Root Type VII pulsed-DC backpack electrofisher. Two electrofishing passes were made for each sample site. Salmonid species, including cutthroat trout, brook trout, and bull trout, were the target species for this study. Captured fish were identified, enumerated, measured (TL to nearest mm), and weighed. Cutthroat trout greater than 200 mm in length were tagged with a Floy FD-6B numbered anchor tag. Other species such as longnose dace, redside shiner, longnose sucker, and sculpin (sp.) were considered incidental catch and were only counted.

Population estimates were calculated using the following equation (Armour et al. 1983):

$$N = \frac{U_1}{1 - (U_2 / U_1)}$$

where:

N = estimated population size;

U_1 = number of fish collected in the first pass; and

U_2 = number of fish collected in the second pass.

The standard error of the estimate was calculated as:

$$se(N) = \sqrt{\frac{M(1 - M / N)}{A - [(2p)^2(U_2 / U_1)]}}$$

where:

$se(N)$ = standard error of the population estimate;

M = $U_1 + U_2$;

A = $(M/N)^2$; and

p = $1 - \frac{U_2}{U_1}$.

The population estimates were converted into density values (# fish/100 square meters) for each sample site then extrapolated to the reach in which the samples were collected. The confidence intervals were converted in the same manner. Total reach lengths were obtained from the digital data layer maintained by the Tribal GIS Program.

Age Analysis

Raw scales were used for age determination and calculating growth rates. Salmonid scales were taken from the side of the body just behind the dorsal fin and above the lateral line (Jearld 1983). Scale samples were sorted by watershed to allow for independent determination of age and growth rate. In the laboratory, several dried scales were mounted between two glass microscope slides and viewed using a Realist, Inc., Vantage 5 microfiche reader. Age was determined by counting the number of annuli (Lux 1971, Jearld 1983). Simultaneous to age determination, a measurement was made from the center of the focus to the furthest edge of the scale. Along this line, measurements were made to each annulus under a constant magnification. Annual growth was then back calculated using the Lee method as described by Carlander (1981). The formula used:

$$L_i = a + \left(\frac{L_c - a}{S_c} \right) S_i$$

where:

Li = Length of fish (in mm) at each annulus;

a = intercept of the body scale regression line;

Lc = length of fish (in mm) at time of capture;

Sc = distance (in mm) from the focus to the edge of the scale; and

Si = scale measurement to each annulus.

The intercept (a) was obtained from the linear regression of body length versus scale length at time of capture. The proportional method of back-calculation was used for species with small sample sizes due to poor regression results. The following equation was used:

$$L_i = \left(\frac{S_i}{S_c} \right) L_c$$

This formula does not take into account the size of fish at scale formation as does the Lee method. A linear regression of body length versus age was calculated independently for fish from each subject watershed and the resulting equation was used to determine the age of fish for which scale samples were not taken.

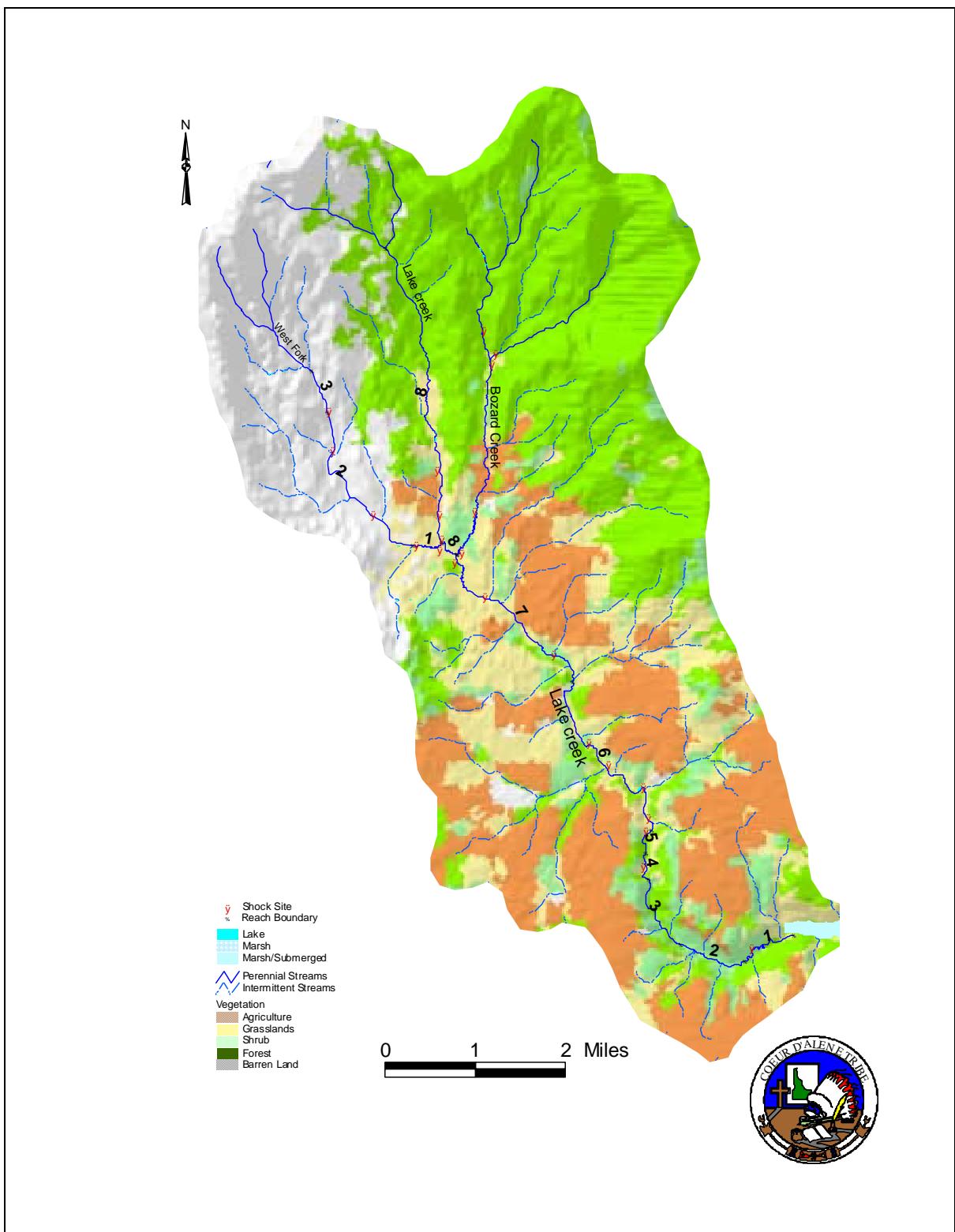


Figure 2.3 Lake Creek shock site locations.

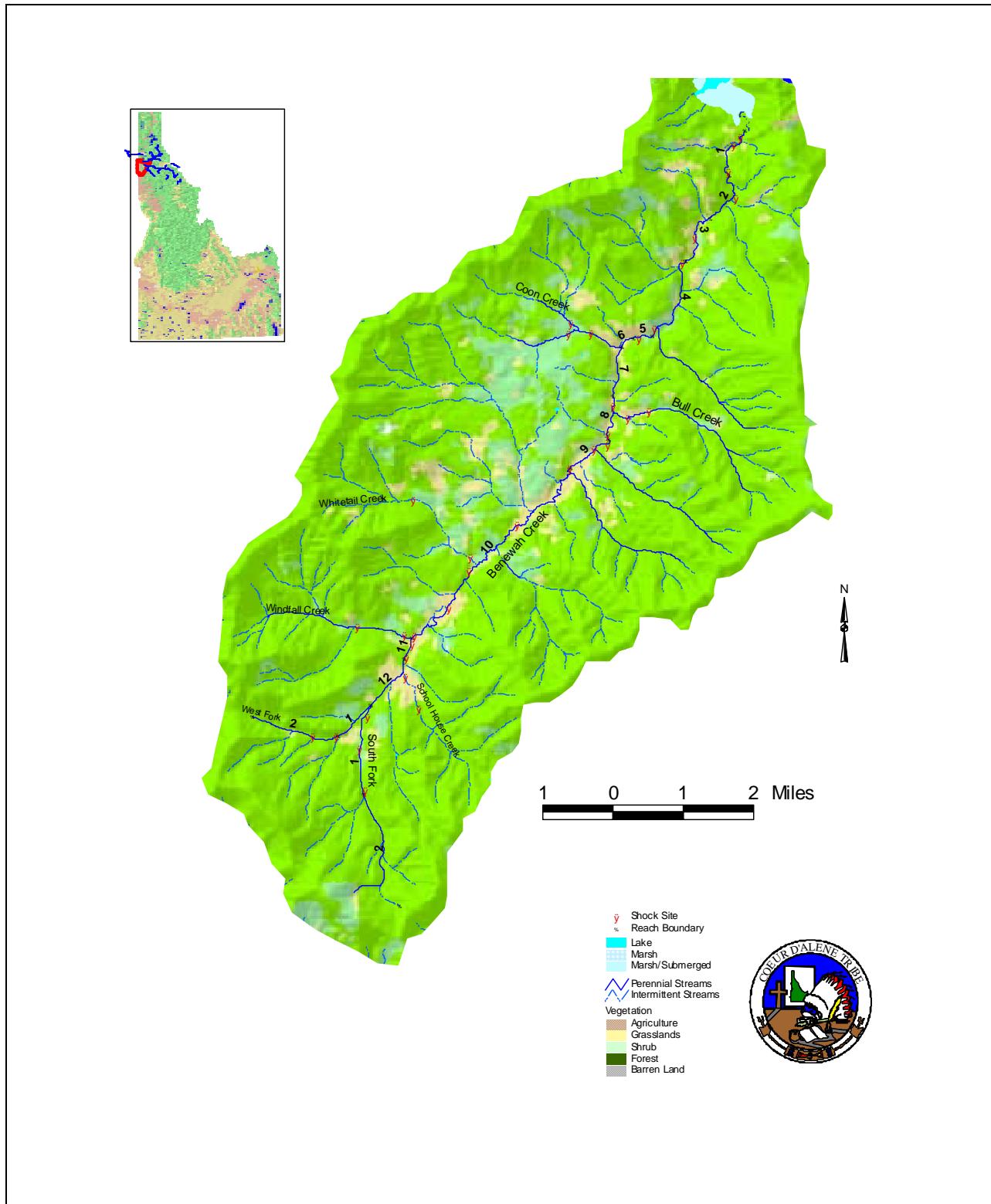


Figure 2.4 Benewah Creek shock site locations.

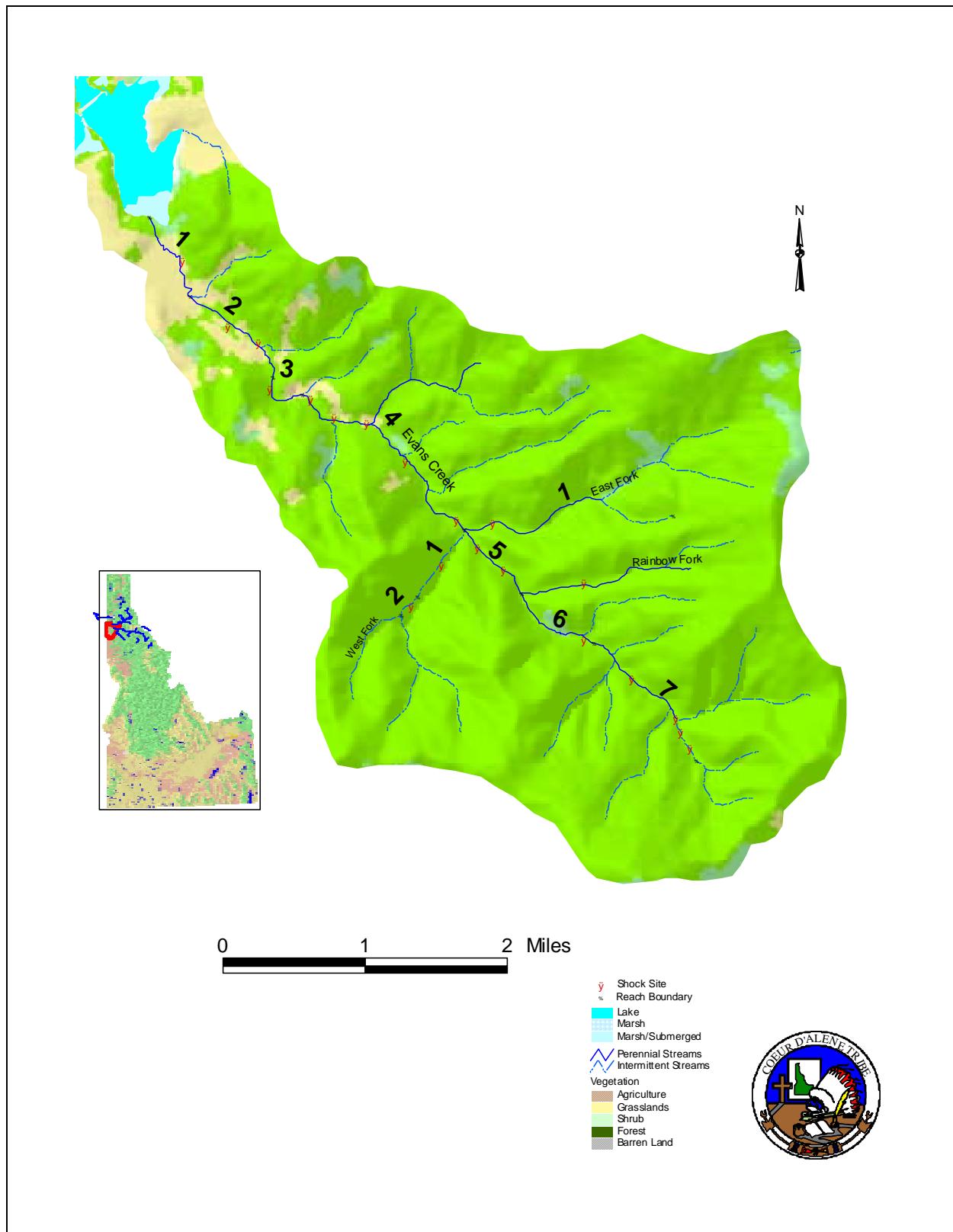


Figure 2.5 Evans Creek shock site locations.

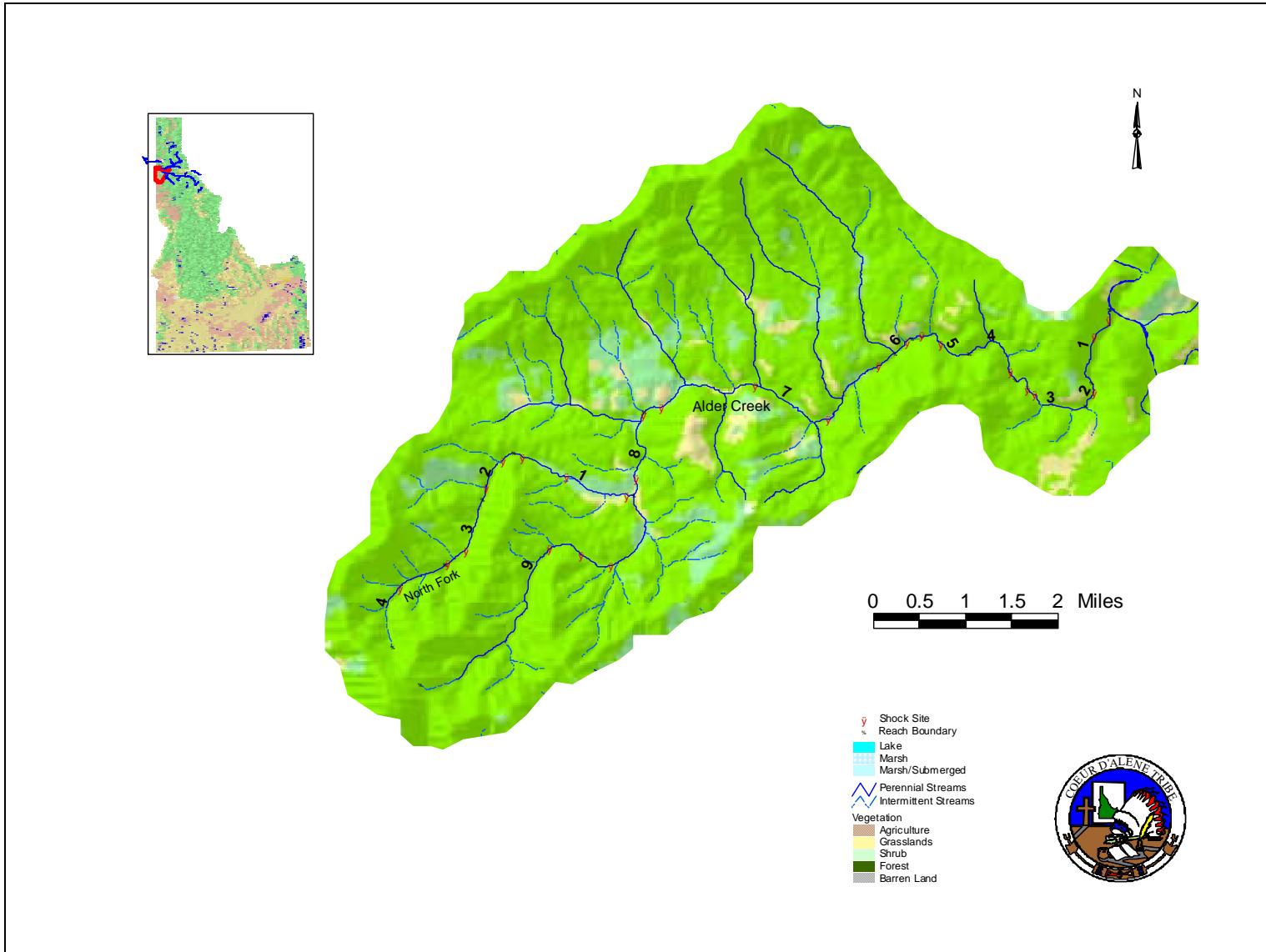


Figure 2.6 Alder Creek shock site locations.

Trout Migration

Migration traps were installed in Lake Creek, Benewah Creek and Cherry Creek to assess migratory patterns, reproductive cycles, distribution, and relative abundance. Traps were functional from March 24th – June 8th, 1996 and March 6th – June 5th, 1997, except during periods of high stream flow. The traps consisted of a weir, runway and a holding box. The design was a modification of the juvenile downstream trap found in Conlin and Tuty (1979). Traps were installed in pairs at some locations to allow monitoring of both upstream and downstream movements of fish (Table 2.3). Paired traps were placed approximately 20 meters apart.

Table 2.3 Fish trap locations in target watersheds, 1998.

| Lake Creek | Benewah Creek | Evans Creek |
|------------------------|-----------------------|-------------------|
| At Hyw 95 crossing (p) | Mouth Benewah (p) | At mouth of creek |
| | Mouth W.F. Benewah | |
| | Mouth S.F. Benewah | |
| | Mouth Coon Creek | |
| | Mouth Whitetail Creek | |
| | Mouth Windfall Creek | |

(p) Indicates a paired trap location.

Traps were checked at least once daily during peak spawning periods from mid-March through the middle of May and once daily afterwards until late June, when traps were removed. Fish captured in the traps were identified, counted, measured, and weighed. A scale sample was taken to assess the age, growth, and condition of the fish. Trap efficiency was calculated to allow for comparisons among years and was determined as catch per unit effort (CPUE), where one unit effort was defined as one 24-hour period.

3.0 Results

3.1 Lake Studies

3.1.1 Water Quality

Seven physical/chemical properties of water, two essential nutrients, and 11 dissolved metals were tested for on Coeur d'Alene Lake in 1997 and 1998 on a monthly basis. The testing program was directed primarily at the properties of water that most affected fish production and distribution within the lake. Vertical profiles were also taken for dissolved oxygen, temperature, pH and conductivity, using a multi-parameter water quality testing probe. Samples were taken on a bi-weekly basis during 1997 and 1998.

Dissolved Oxygen

Vertical profiles of dissolved oxygen were taken at each of the thirteen stations (Appendix A) during 1997 and 1998. Dissolved oxygen, when at low concentrations is an indication of high levels of organic decomposition. The surface water of every sampling station remained at acceptable levels (>6.0 mg/L) over the course of both years.

In 1997, four of the thirteen sampling stations showed dissolved oxygen concentrations of less than 6.0 mg/L in the hypolimnion, and in 1998, eight out of the thirteen water quality sites had dissolved oxygen

concentrations below 6.0 mg/L in the hypolimnion (Table 3.1). Sites that were similar in geomorphology showed similar results in dissolved oxygen concentrations.

Table 3.1 Water quality stations on Coeur d'Alene Lake that had dissolved oxygen readings less than 6.0 mg/L in 1997 and 1998.

| Location | Depth (m) | 1997 | 1998 |
|---------------------|-----------|-------------------------|-------------------------|
| | | Dissolved Oxygen (mg/L) | Dissolved Oxygen (mg/L) |
| Hidden Lake | 9 | 0.25 | 0.12 |
| Chatcolet Lake Deep | 11 | 0.50 | 0.10 |
| Benewah Lake | 5 | 1.25 | 0.14 |
| Mid Lake | 13 | 4.5 | 3.75 |
| Conkling Point | 16 | - | 2.78 |
| Windy Bay Deep | 32 | - | 5.68 |
| Carey Bay | 14 | - | 4.6 |
| St. Joe River | 13 | - | 5.75 |

During 1997 and 1998, the lowest dissolved oxygen concentrations were recorded in the shallow southern lakes stations. In 1997, the lowest dissolved oxygen concentrations were recorded in Hidden Lake, where a reading of 0.25 mg/L was recorded in the lowest one meter of the lake. Dissolved oxygen concentrations in Hidden Lake were in violation of the 6.0 mg/L standard from 6.0 to 8.5 meters of the bottom from 7/24/97 to 8/27/97. Chatcolet Lake Deep had the second lowest reading of 0.50 mg/L and was in violation of the 6.0 mg/L standard from 7 to 13 meters of the bottom from 7/24/97 to 9/16/97. Benewah Lake was also in violation of the 6.0 mg/L standard in the bottom 1 meter with a reading of 1.25 mg/L. In 1998, Chatcolet Lake Deep had the lowest dissolved oxygen level at 0.10 mg/L on 9/2/98. Dissolved oxygen values were below the 6.0 mg/L standard in the lower 2-4 meters from 7/7/98 to 9/2/98. Hidden Lake had a low reading of 0.12 mg/L and the lowest 1-2 meters were in violation of the 6.0 mg/L standard from 6/22/98 to 9/3/98. Dissolved oxygen in Benewah Lake was in violation of the 6.0 mg/L standard in the bottom 1 meter from 6/8/98 to 9/3/98.

During 1997, the only station found in violation of the 6.0 mg/L standard within the main body of Coeur d'Alene Lake was the Mid-Lake Coeur d'Alene station where the 6.0 mg/L standard was violated in the bottom 1 meter with a reading of 4.5 mg/L. This drop in the dissolved oxygen level is a general indicator of increasing trophic status or eutrophication. The general trend was an increase in trophic status on a north to south axis. However, the Conkling Point sample station, which is between Mid-Lake Coeur d'Alene and Hidden Lake, did not violate the 6.0 mg/L dissolved oxygen standard.

In contrast to 1997, all three sites in the open water zone during 1998 had dissolved oxygen concentrations below 6.0 mg/L. Conkling Point had a low dissolved oxygen reading of 2.78 mg/L and the lower 2 to 3 meters had dissolved oxygen levels below the 6.0 mg/L standard from 8/10/98 through 9/3/98. Mid-Lake Coeur d'Alene was in violation of the 6.0 mg/L standard with a reading of 3.75 mg/L in the lower 1 to 4 meters on 9/30/98. Windy Bay Deep had only one day where the dissolved oxygen dropped below 6.0 mg/L in the lower 4 meters.

During 1998, Carey Bay was the only interior bay site in which dissolved oxygen values dropped below 6.0 mg/L. A value of 4.6 mg/L was recorded in the lower 1 meter on 9/3/98.

The St. Joe River had a dissolved oxygen reading of 5.75 mg/L on 9/3/98.

By October of 1998 all but two sites were isothermal with dissolved oxygen values greater than 8.0 mg/L. Windy Bay Deep and Mid-Lake Coeur d'Alene were the only two sites that had not turned over at this time. Turn over is when the thermocline begins to weaken and the epilimnion increases in depth as it decreases in temperature. The stratified structure is lost and the lake becomes homothermous; that is, it has a uniform temperature from surface to bottom.

Temperature

Optimum temperature requirements for cutthroat and bull trout range between 10° C to 15° C. Vertical profiles of temperature were taken at all thirteen stations during both years (Appendix A).

Geomorphologically similar stations showed similarities in the temperature profiles in both timing of stratification and magnitude of the warming. Shallow stations heated up sooner than deeper water stations. The shallow southern lakes had more variability in the timing and magnitude of the change when compared to the other sample stations (Peters et al. 1999).

In 1997, the shallowest stations, (Round Lake and Chatcolet Lake Shallow @1.5m deep), the epilimnion extended to the bottom before May 16th (Figure 3.1). Temperatures greater than the 15.0° C temperature standard existed from July 8th through September 29th from surface to bottom. The temperature peaked at 26.5° C on August 8th.

In 1998, Round Lake and Chatcolet Lake Shallow (Figure 3.1) had temperatures above 15° C from June 22nd through September 17th, and the epilimnion extended to the bottom. Round Lake had its warmest temperature of 23.86° C on August 11th and Chatcolet Lake Shallow reached a high of 26.62° C on July 21st.

In 1997, the shallow southern lake stations (Chatcolet Lake Deep, Benewah Lake, and Hidden Lake) the thermocline was present by May 16th (Figure 3.2) and reached its deepest point on September 17th. The temperature peaked at 26.5° C on August 8th.

In 1998, the thermocline varied between the three shallow southern lakes (Figure 3.2). By June 22nd the thermocline was in place at Hidden Lake and the upper 3.5 meters had temperatures above 15° C. The temperature peaked on August 11th with a surface reading of 25.06° C. Chatcolet Lake Deep had temperatures above 15° C on June 8th with a well-established thermocline. Peak temperature was reached on July 21st with a reading of 25.45° C at the surface. Benewah Lake had exceeded the optimum temperature requirements by May 21st in the upper 2 meters. A thermocline was established at this time. Peak temperature was reached on July 21st with a value of 25.92° C at the surface.

Vertical profiles for the interior bay stations (Windy Bay Shallow, Rockford Bay, and Carry Bay) during 1997 showed that the thermocline had started to build in by May 16th and the water nearest to the bottom had warmed from 5.5° C to 7.0° C (Figure 3.3). By June 26th the thermocline had reached the bottom. The surface temperature peaked on August 5th at 23.5° C.

During 1998, all three interior bays sample sites had temperatures above 15° C (Figure 3.3) and a well-established thermocline by June 8th. Temperature in the interior bays peaked at 24.79° C on July 7th.

Temperature profiles for the 1997 deep-water stations (Conkling Point, Windy Bay Deep, Mid-Lake Coeur d'Alene) showed a definite thermocline by May 16th (Figure 3.4) with complete thermal stratification by August 5th. The thermocline was still present in the deepest sampling station on October 22nd however; it was nearly broken down in the other two deep-water stations. The temperature criterion was never exceeded from surface to bottom however, the temperature standard was exceeded and habitat was limited.

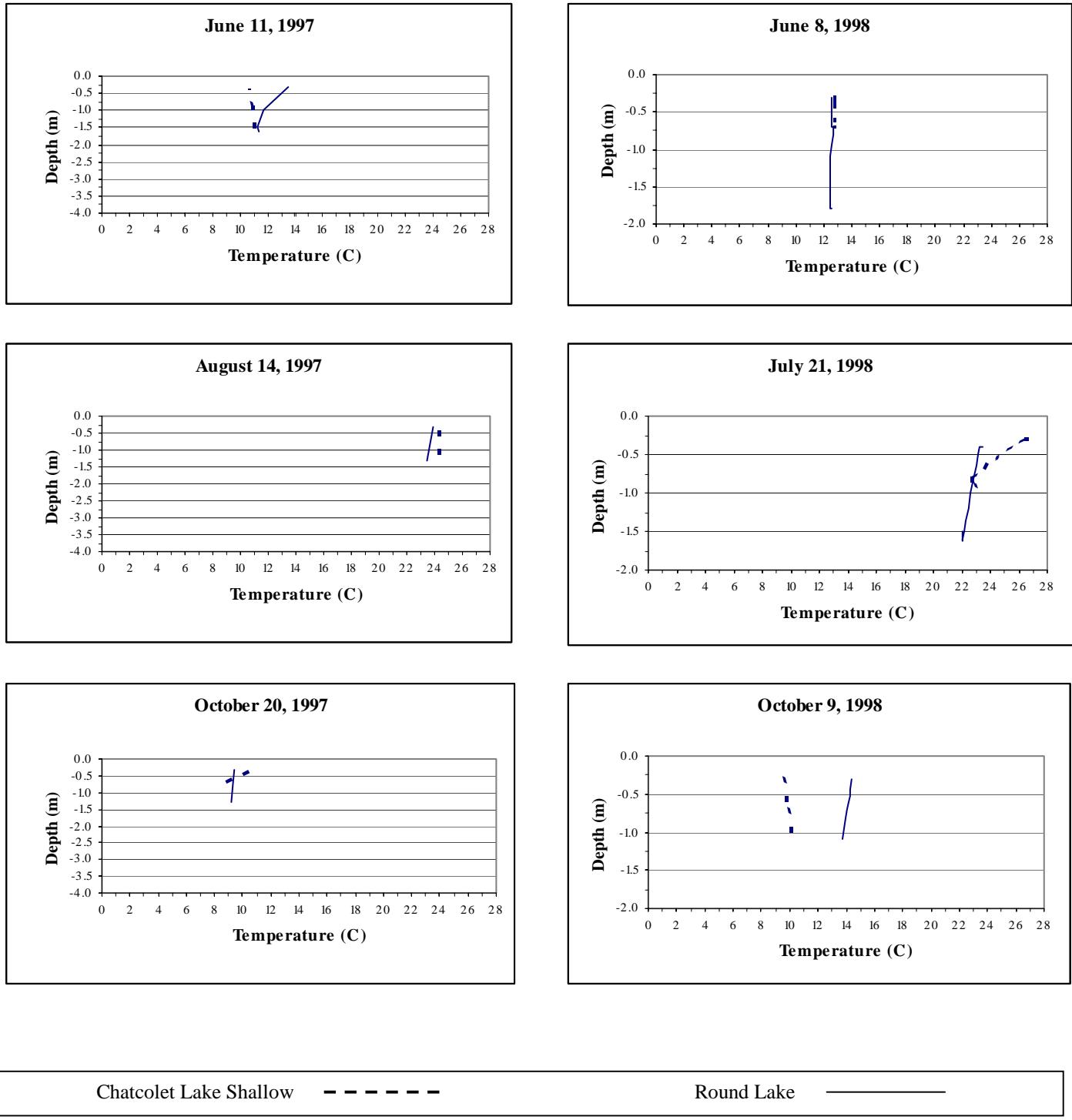


Figure 3.1 Peak spring, summer and fall temperature profiles vs. depth for two geomorphology similar sampling locations on Coeur d'Alene Lake during 1997 and 1998.

By June 8th 1998, the deep water zones had temperatures that violated the standards and had well-established thermoclines (Figure 3.4). The depth of the thermoclines varied by site, Conkling Point's extended down 1.5 meters while Mid-Lake Coeur d'Alene's consisted of the upper 3 meters and Windy Bay Deep had the most pronounced thermocline, which encompassed the upper 8.5 meters. Peak temperature was reached on July 7th with a reading of 24.51° C.

In 1997, Coeur d'Alene River's water temperature had exceeded 15° C by June 11th and a thermocline was forming (Figure 3.5). Water temperature peaked on August 5th (25.18° C) and the surface to bottom temperature was greater than 15° C. In 1998, water temperature in the Coeur d'Alene River had exceeded 15° C by June 8th (Figure 3.5). Maximum water temperature was reached on August 10th (24.59° C).

By July 8th 1997 the water temperature in the St. Joe River had exceeded 15° C (Figure 3.6). Water temperature peaked in the St. Joe River on August 5th with a reading of 23.01° C. In 1998, the St. Joe River exceeded 15° C by June 22nd in the upper 2 meters (Figure 3.6). Peak temperature was reached on July 21st (22.77° C).

In 1997, by the first of October all water quality sites were isothermal at 15° C. By mid October in 1998 water temperature at all thirteen stations was between the optimum temperature requirement of 10° C to 15° C.

pH

Cutthroat and bull trout have optimum pH limits of 6-8. The pH of Coeur d'Alene Lake does not change very much from season to season or on an annual basis. Observed values ranged from 6.8 to 8.0 (Appendix A), all within the optimal tolerance limits for cutthroat production.

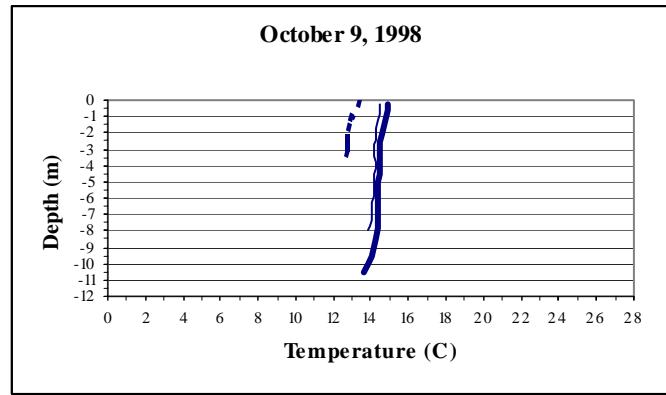
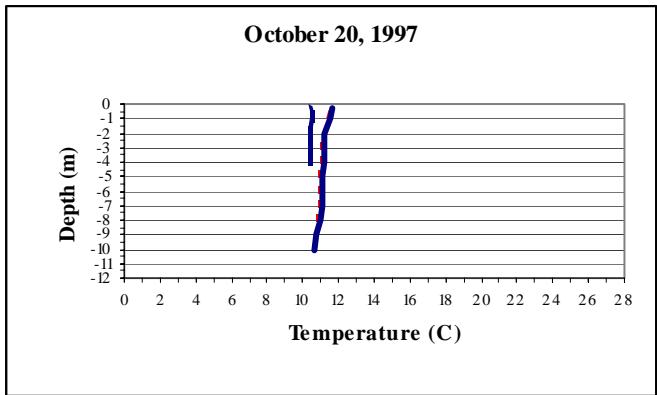
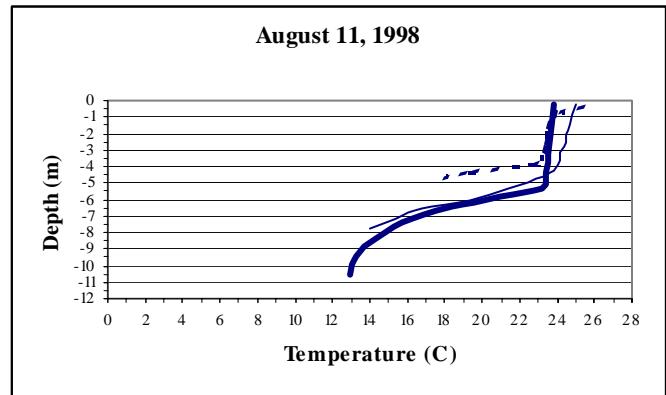
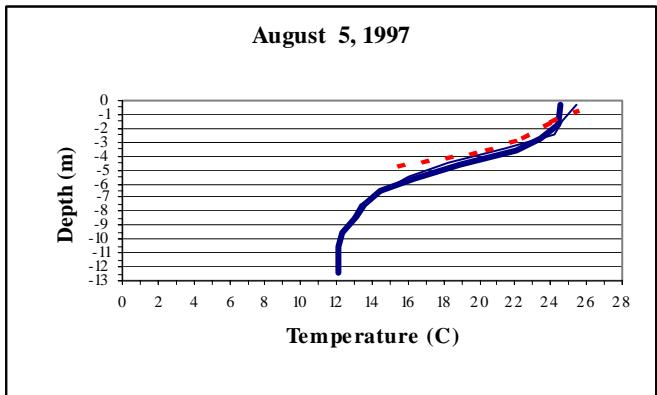
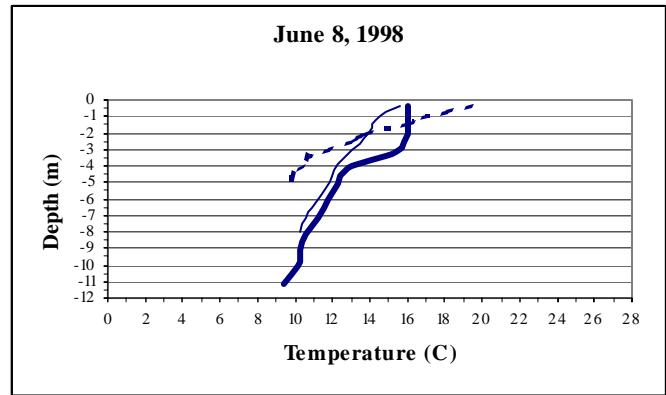
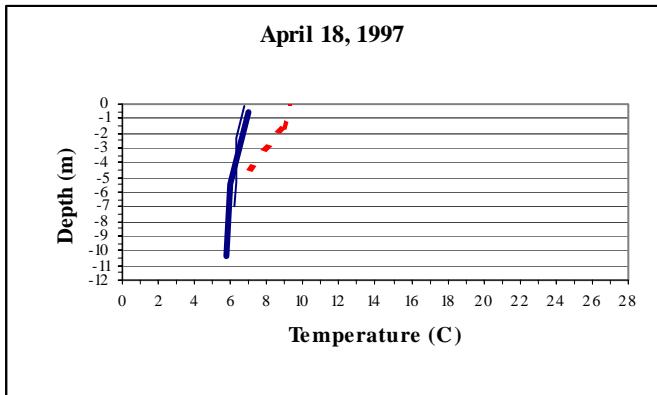
In 1997, the only variation occurred at three stations in the southern lakes section (Chatcolet Lake Deep, Benewah Lake, and Hidden Lake) where the pH rose to 9.4 (Figure 3.7) in the upper 2 meters of the water column. The three stations that showed similar changes in pH were in geomorphologically similar areas.

During 1998, eleven out of the thirteen sites had pH values that exceeded the upper limit. pH values increased on a north to south axis as did the duration. The interior bays and the deep-water zones had pH values that exceeded eight from June 24th through July 8th. The shallow southern lakes had pH values above eight from July 7th through September 3rd. The peak pH during this time was 9.17 on August 11th (Figure 3.7). On October 9th and 19th Round Lake exceed the upper pH limit with a reading of 8.63. Chatcolet Lake Shallow exceeded the upper pH limit on and off from July 7th through October 19th, with the maximum pH being 9.36 on October 19th (Figure 3.8).

Conductivity

Vertical profiles of the specific conductance were taken concurrently with the other physical/chemical parameters during 1997 and 1998 (Appendix A). In 1997, all conductivities were within the tolerance limits for cutthroat trout production and ranged from 15.3 µS/cm to 81.0 µS/cm. Any variability to the conductivity was due to natural environmental conditions except at the mouth of the Coeur d'Alene River (Figure 3.9) where higher than normal levels of dissolved metals are flowing into the lake. Values remained very stable during the fall, winter, and spring months. Only during the peak summer conditions did variation occur.

In 1998, all thirteen water quality sites fell with in the conductivity limits. The shallow southern lakes and Coeur d'Alene River had the highest values. Hidden Lake (129.1µS/cm), Chatcolet Lake Deep (92.6µS/cm), Benewah Lake (75.7µS/cm) and the Coeur d'Alene River (85µS/cm). The rest of the sites had values ranging from 30-65 µS/cm.



| | | | | | |
|--------------|-------|---------------------|-------|-------------|-------|
| Benewah Lake | ----- | Chatcolet Lake Deep | ————— | Hidden Lake | ————— |
|--------------|-------|---------------------|-------|-------------|-------|

Figure 3.2 Peak spring, summer and fall temperature profiles vs depth for three geomorphology similar sampling locations on Coeur d'Alene Lake during 1997 and 1998.

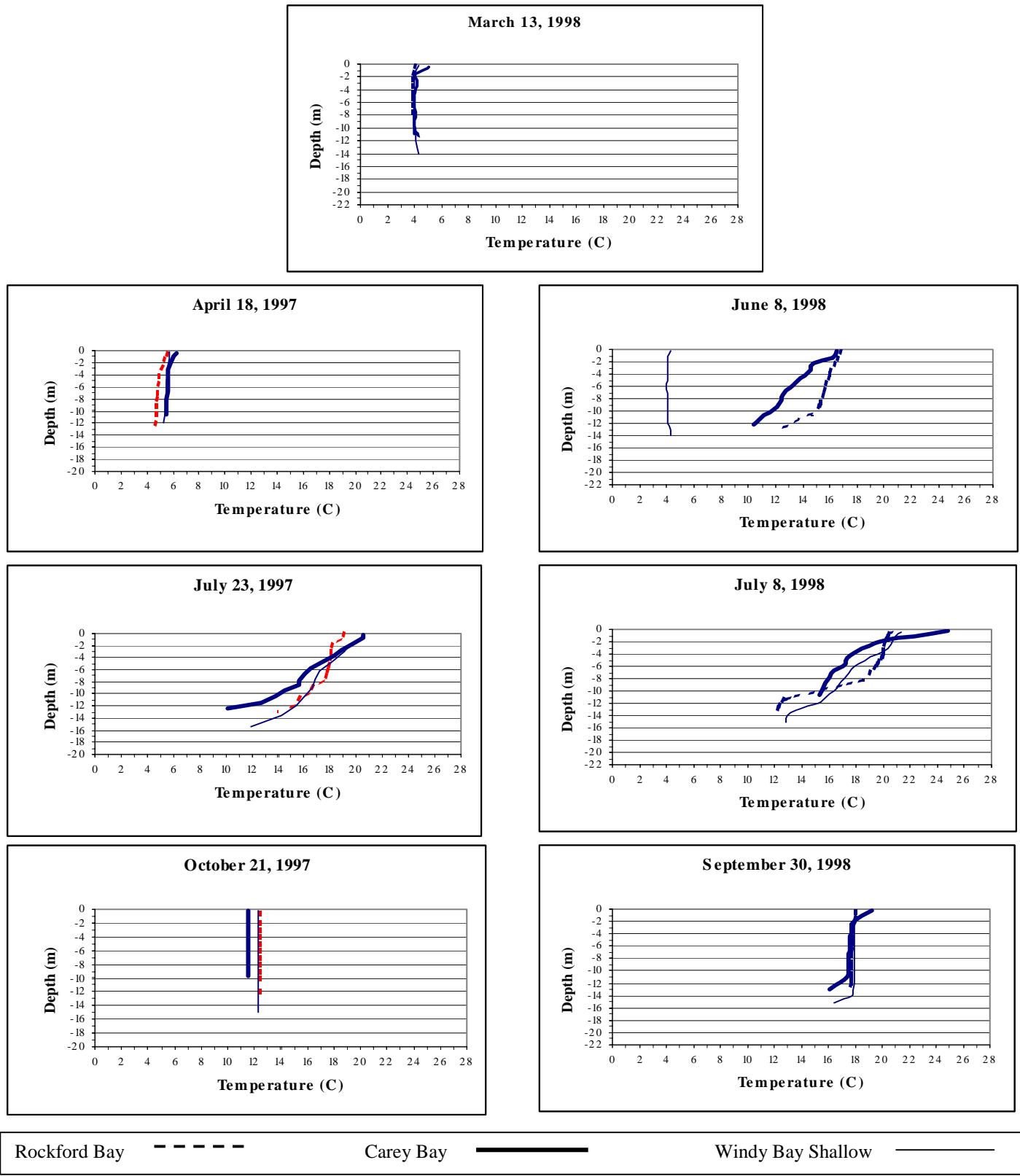


Figure 3.3 Peak winter, spring, summer and fall temperature profiles vs depth for three geomorphology similar stations on Coeur d'Alene Lake during 1997 and 1998. A winter sample was not taken in 1997.

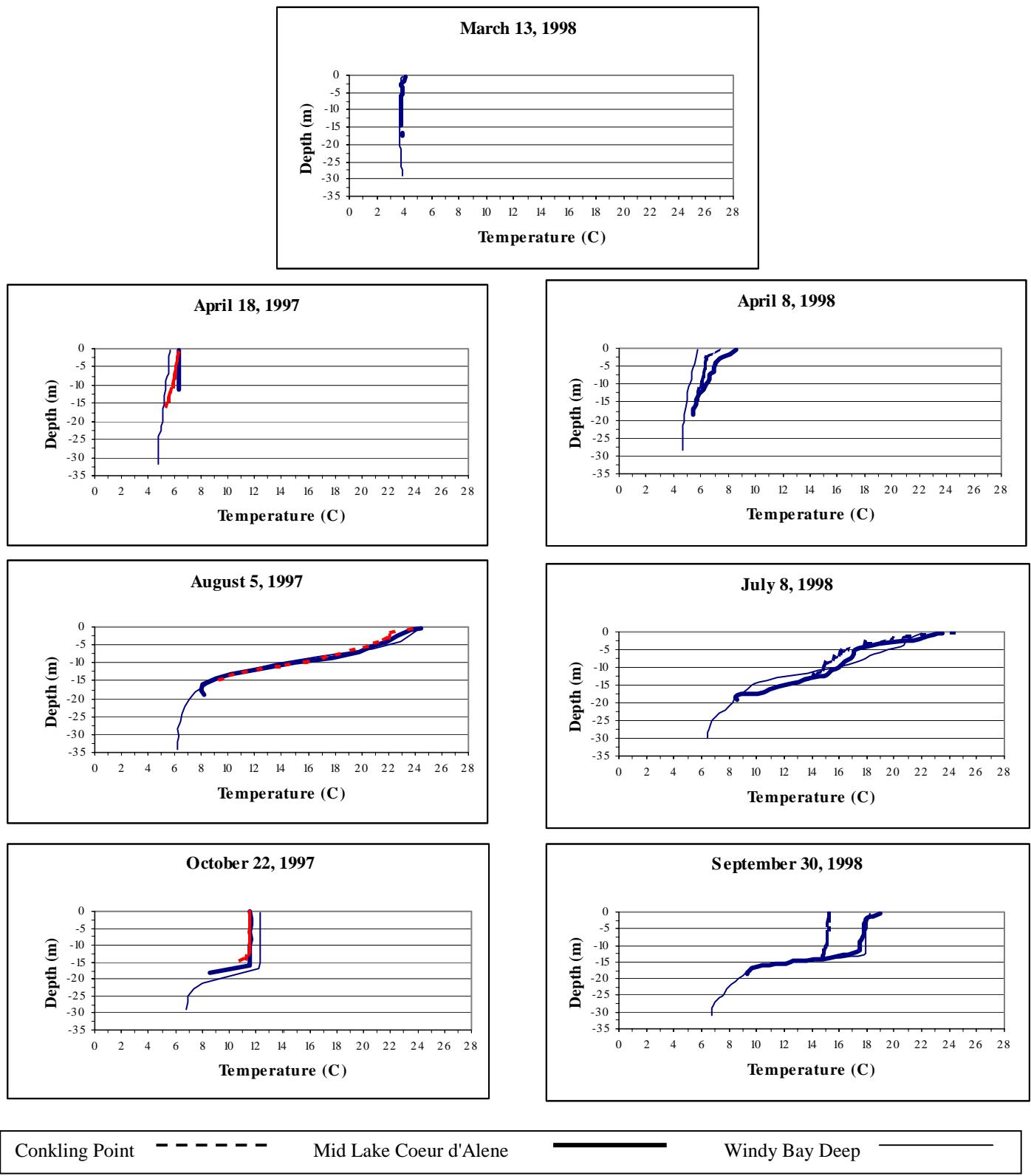


Figure 3.4 Peak winter, spring, summer and fall temperature profiles vs depth for three geomorphology similar sampling locations on Coeur d'Alene Lake during 1997 and 1998. A winter sample was not taken in 1997 and Conkling Point had no winter sample taken in 1998.

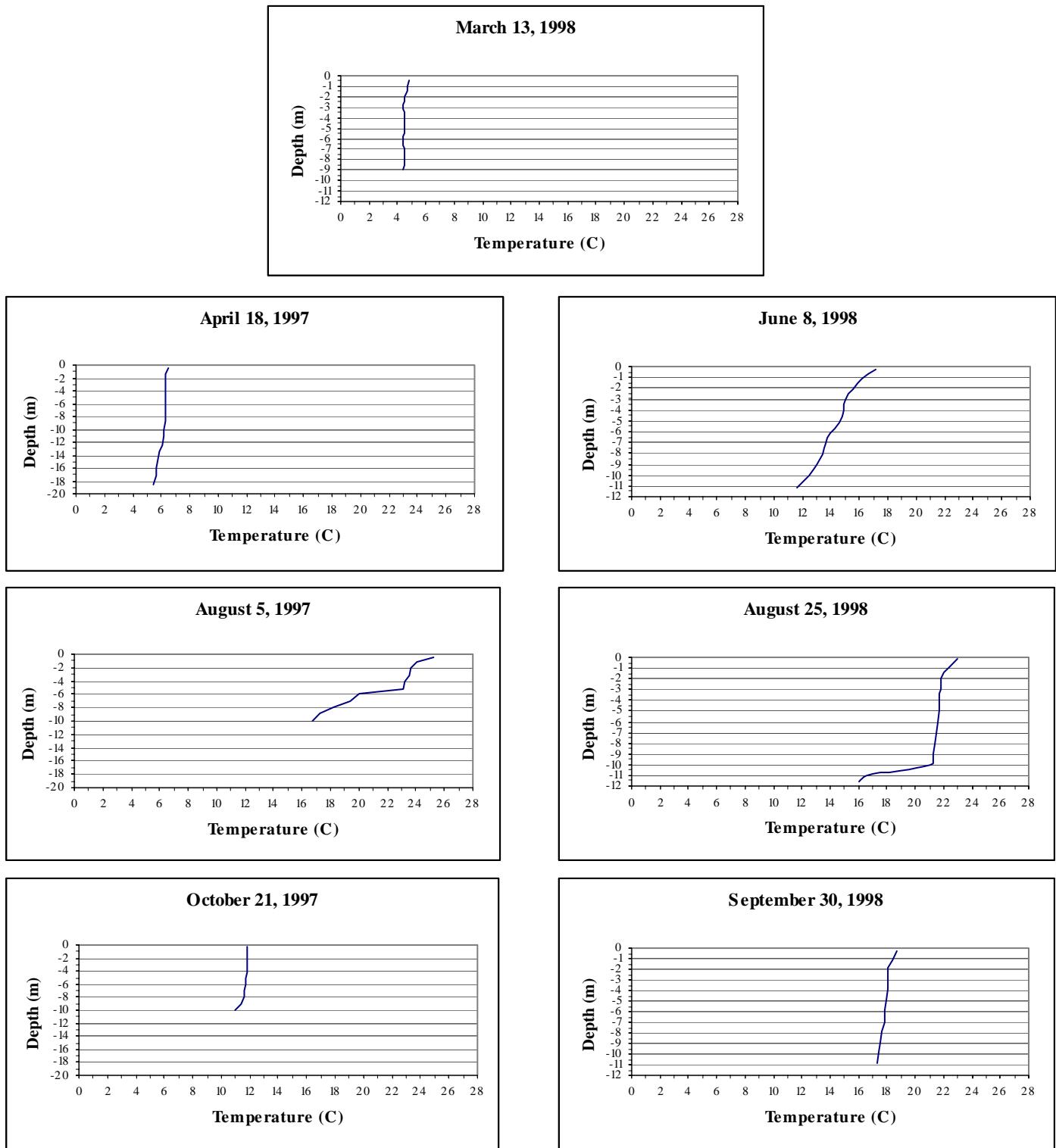


Figure 3.5 Peak winter, spring, summer and fall temperature profiles vs depth for the Coeur d'Alene River sampling location on Coeur d'Alene Lake during 1997 and 1998. There was no winter sample taken in 1997.

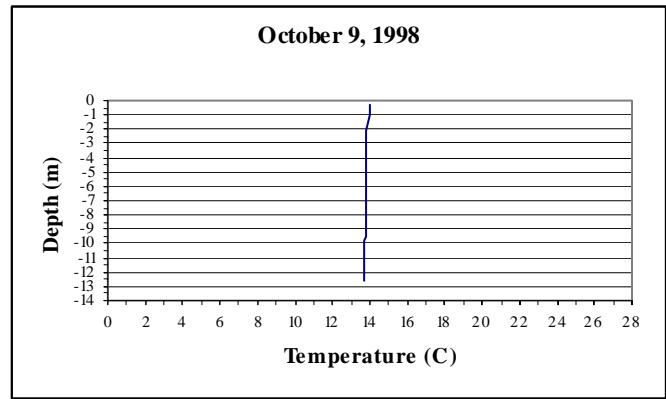
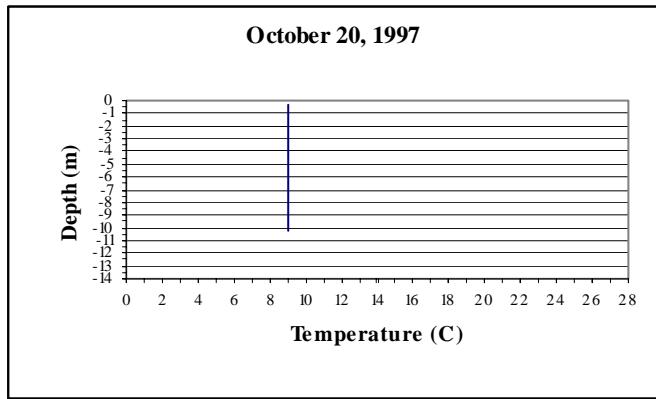
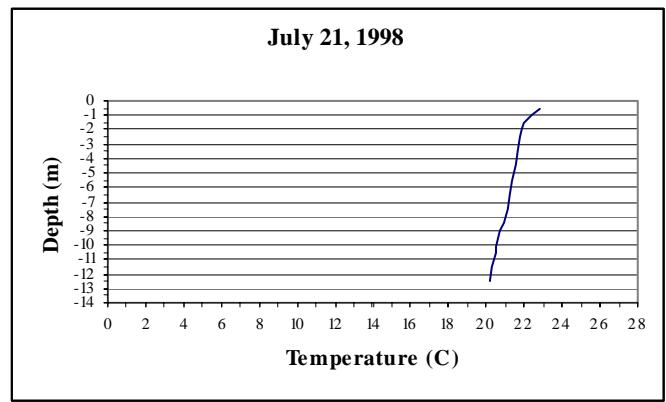
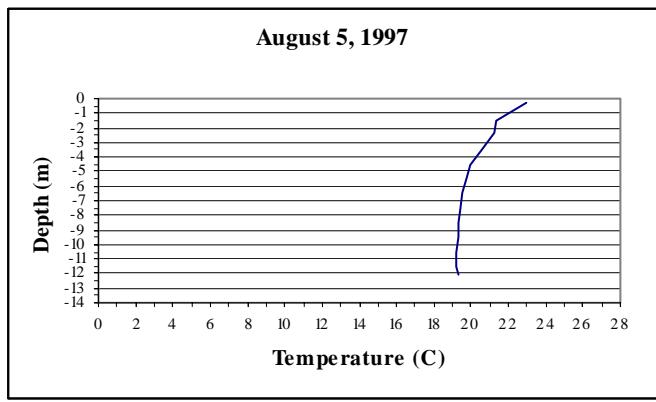
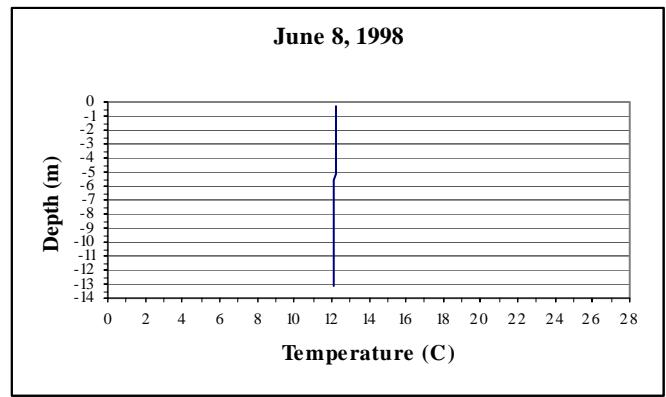
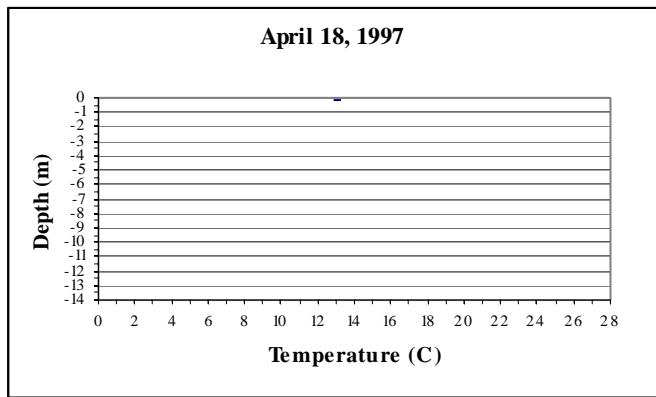


Figure 3.6 Peak spring, summer and fall temperature profiles vs depth for the St. Joe River sampling during 1997 and 1998.

Nitrogen

Nitrogen compounds follow regular seasonal patterns. For the most part nitrate concentrations sampled at the 13 stations (Appendix B) in 1997 and 1998, were below the detection limit (0.01 µg/L) thus, all data below detection limits were reported as half the detection limit. In only a few instances during 1997 (both stations in Windy Bay, Rockford Bay, and the two shallow stations) did nitrate concentrations exceed the detection limit in the epilimnion, reaching a high of 0.113 µg/L at the Rockford Bay sample station in the October sample period. However, in the hypolimnion concentrations of nitrate generally increased in the November sample over the October sample period reaching a high of 0.131 µg/L in the Windy Bay Deep sample station.

In the epilimnion during the months of April and November in 1998 half of the sites were above the detection limit. From June through October all sites were below the detection limit. Hidden Lake (0.210 µg/L) had the highest reading. In the hypolimnion, four out of the seven sampling months had values above the detection limit. Mid-Lake Coeur d'Alene (0.078 µg/L) had the highest reading in the hypolimnion.

Nitrite, the form of nitrogen found in the smallest quantities were all below the detection limit of 0.01 µg/L in the epilimnion and hypolimnion for both samples (Appendix B) at all thirteen stations in 1997. All data measured below the detection limit were recorded as half the detection limit.

During the sample months of April and June in 1998, nitrite values were <0.029 µg/L in both the epilimnion and hypolimnion (Appendix B). The rest of the time the values were below the detection limit. All data measured below the detection limit were recorded as half the detection limit.

Organic nitrogen is defined functionally as organically bound nitrogen in the tri-negative oxidation state. Analytically, organic nitrogen and ammonia can be determined together and have been referred to as "kjeldahl nitrogen", a term that reflects the technique used in their determination. Total kjeldahl nitrogen was added as a new water quality sampling method during the 1998 field season. The values in both the epilimnion and hypolimnion were fairly uniform throughout the thirteen stations (Appendix B).

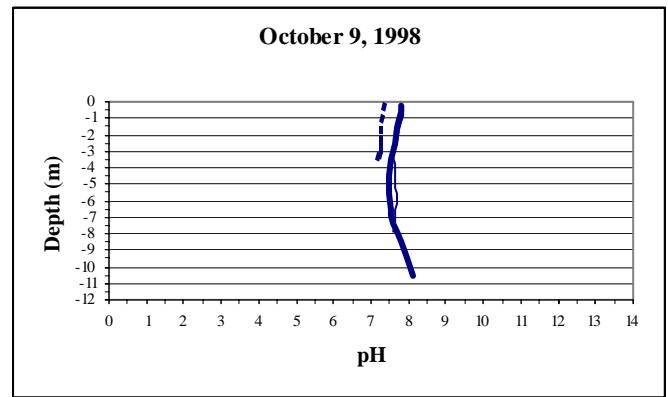
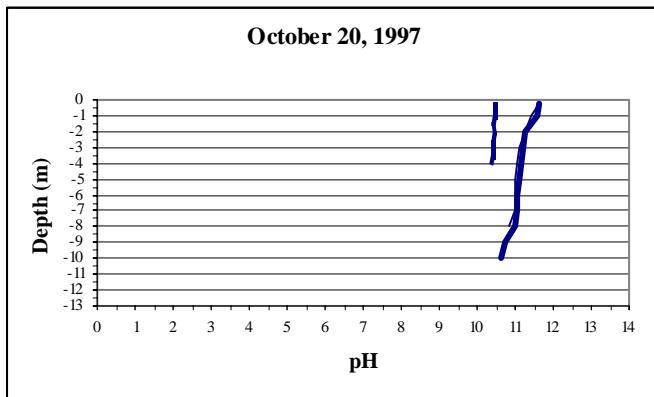
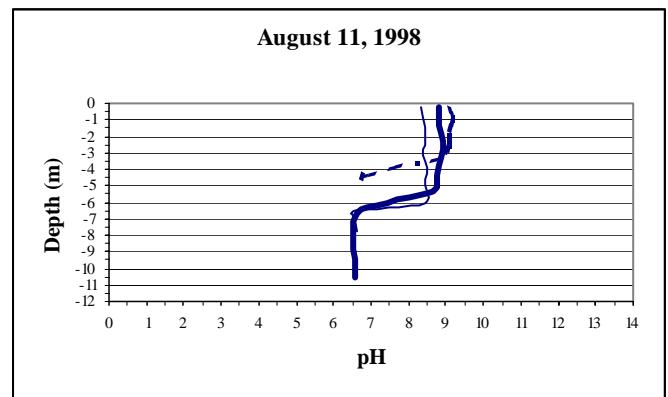
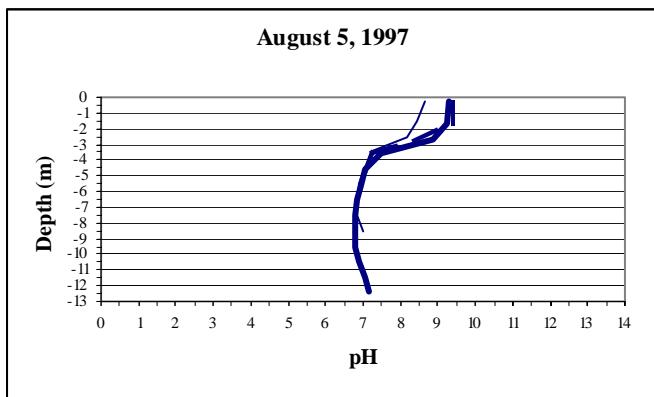
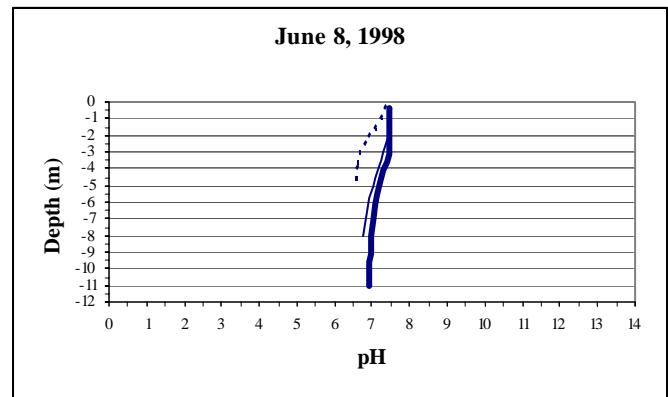
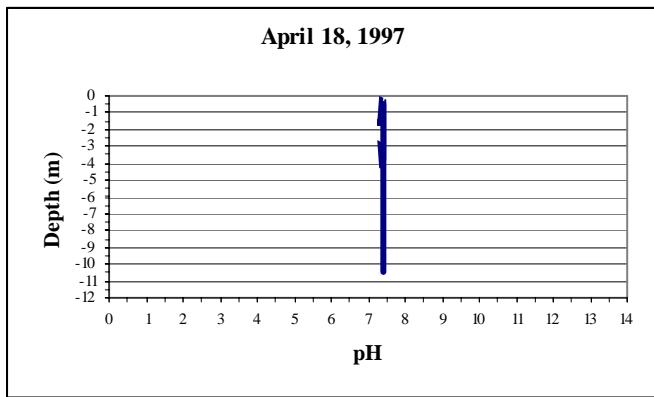
Phosphate

During 1997 and 1998, ortho-phosphate concentrations were below the detection limit (0.026 µg/L) at all sites in both the epilimnion and hypolimnion (Appendix B). The data were reported as half of the detection limit so data point loss would not occur.

Total phosphorus was a new parameter that was added in 1998. Total phosphorus values increased on a north to south axis (Appendix B). All sites north of Hidden Lake in both the epilimnion and hypolimnion were below the detection limit of 0.005 µg/L. All data measured below the detection limit were recorded as half the detection limit. A few sites south of Hidden Lake had values slightly higher than the detection limit. Values in the epilimnion ranged from <0.005 µg/L in the northern sites to 0.065 µg/L at Chatcolet Lake Shallow. In the hypolimnion the values ranged from <0.005 µg/L in the northern sites to 0.026 µg/L at Benewah Lake.

Primary Productivity

Chlorophyll_a is the pigment aquatic plants use for photosynthesis. In 1997 Chlorophyll_a values ranged from 0.005 µg/L to 25.790 µg/L in the epilimnion while values ranged from 0.005 µg/L to 34.14 µg/L in the hypolimnion (Appendix B). The general trend is increasing values on a north to south axis. Higher levels of chlorophyll_a is an indicator of increasing trophic status.



Benewah Lake ————— Chatcolet Lake Deep ————— Hidden Lake —————

Figure 3.7 Peak spring, summer and fall pH profiles vs depth for three geomorphology similar sampling locations on Coeur d'Alene Lake during 1997 and 1998.

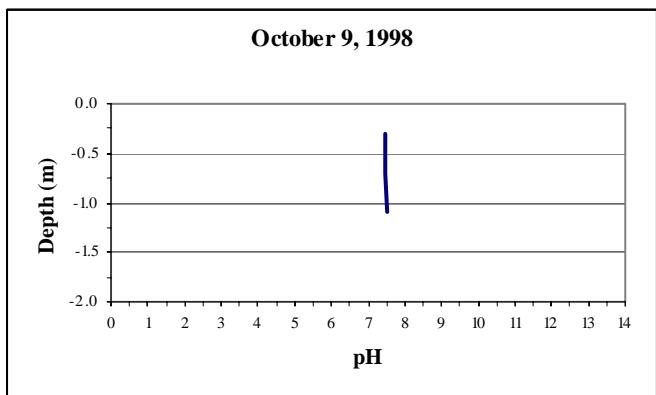
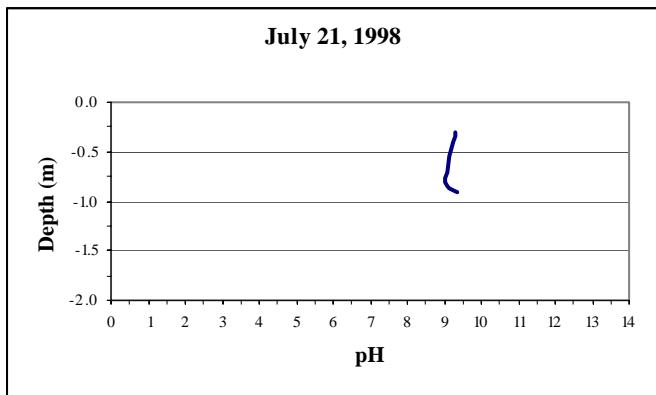
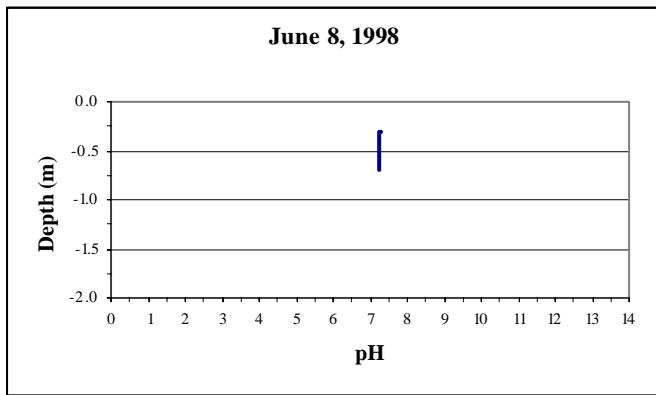


Figure 3.8 Peak spring, summer and fall pH profiles vs depth for the Chatcolet Lake Shallow sampling location on Coeur d'Alene Lake during 1998.

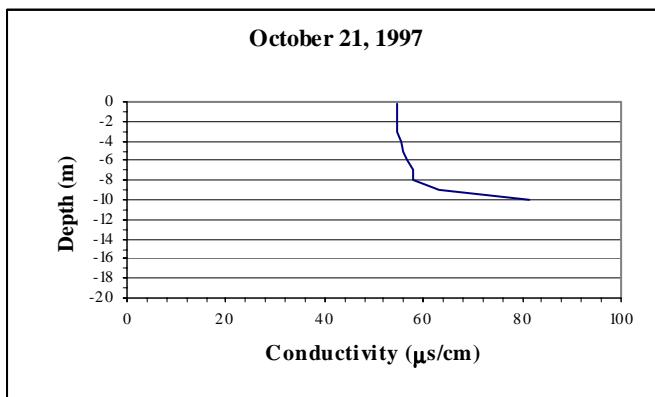
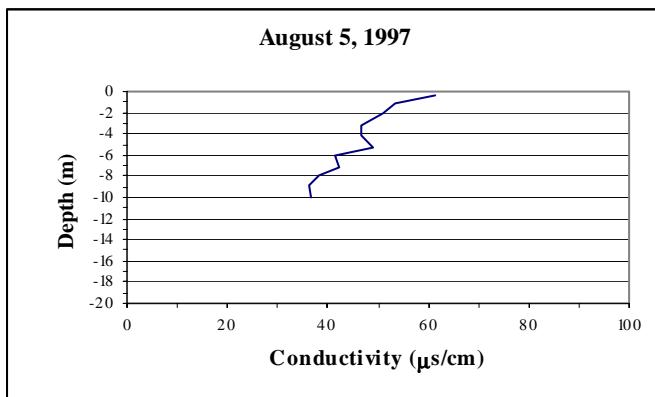
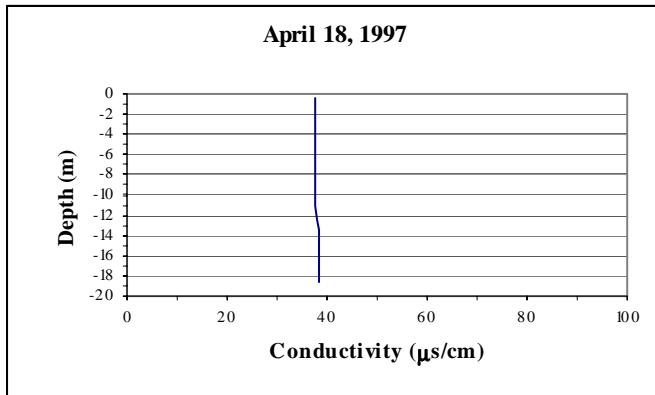


Figure 3.9 Peak spring, summer and fall conductivity profiles vs depth for the Coeur d'Alene River sampling location on Coeur d'Alene Lake during 1997.

In 1998, the same trend occurred as in 1997, Chlorophyll_a values increased on a north to south axis. The values in the epilimnion ranged from <0.001 µg/L to 61.410 µg/L and the values in the hypolimnion ranged from <0.010 µg/L to 80.920 µg/L (Appendix B).

Physical

Total Suspended Solids (TSS) is defined as the residue left on a filter paper of 2 µm or smaller after a portion of the sample has been filtered through (APHA, 1992). The detection limit for TSS is 4.0 mg/L. In 1997, total suspended solids were fairly uniform throughout the epilimnion of the lake with only a few differences found (Appendix B). The shallow stations ran slightly higher than the other stations with Round Lake reaching a high of 16.0 mg/L. The southern lakes also ran slightly higher with Hidden Lake and Benewah Lake reaching a high of 10 mg/L. The hypolimnion was quite variable throughout the lake. Windy Bay Deep reached a high of 27.0 mg/L. Drinking water standards are set at 500 mg/L however; levels much lower can impart a foul taste to the water. No analysis of the composition of the suspended solids was completed. However, it was noted that high levels of suspended sediment was present in the southern lakes sample stations and that most likely the high suspended solids present in the Windy Bay Deep station was related to decomposing algae not sediment.

During 1998, none of the water quality sites exceeded the drinking water standard but some sites did exceed the detection limit (Appendix B). Chatcolet Lake Shallow had a high reading of 10.500 mg/L in the epilimnion. TSS increased in the hypolimnion, with more sites having values over 4.0 mg/L. The southern lakes had some of the highest values. Chatcolet Lake Deep had a reading of 141.000 mg/L in June and Hidden Lake had a reading of 47.000 mg/L in April.

Turbidity is the amount of suspended inorganic and organic matter throughout the water column. In 1997, turbidity in the epilimnion and hypolimnion showed the same trend as suspended solids (Appendix B) with a general increase on a north to south axis. The highest turbidity reading was recorded at the Chatcolet Lake Shallow sample station (11.2 NTU). The next highest was Benewah Lake (5.810 NTU) followed by Hidden Lake (4.760 NTU). The lowest value was recorded at the Windy Bay Deep sample station (0.230 NTU). The high turbidity readings were due to suspended sediments flowing in from Plummer Creek a tributary to Chatcolet Lake.

In 1998, all of the turbidity readings in the epilimnion were above the detection limit (Appendix B). Benewah Lake (6.840 NTU) had some of the highest readings throughout the season. Windy Bay Deep (0.403 NTU) had the lowest turbidity reading. Turbidity values were higher in the hypolimnion than in the epilimnion. In June Chatcolet Lake Deep had a reading of 43.100 NTU. Windy Bay Deep (0.335 NTU) had the lowest turbidity value. As the field season continued there was a gradual decrease in turbidity values in the hypolimnion.

Dissolved Metals

Little variation in the concentrations of the eleven metals (Appendix B) sampled was observed during 1997 and 1998. Potassium (K) values in the hypolimnion during October of 1998 were slightly higher than October of 1997. The 1998 values ranged from 1.02 mg/L to 1.4 mg/L compared to 1997, which had values that were <0.850 mg/L.

Secchi disk readings were taken at each of the thirteen stations throughout 1997 and 1998 they were used to determine the euphotic zone depth. Graphs showing the measured secchi disk readings and the empirically derived euphotic zone depth are located in (Appendix C). In 1997 and 1998 the empirically derived euphotic zone depth was variable throughout the lake (Table 3.2 & 3.3) with each station having different depths based on variable site-specific conditions. Similarities existed between the five distinct habitat areas however; the general trend was decreasing secchi and euphotic zone depths on a north to south axis within the lake.

Table 3.2 Average annual and seasonal secchi measurements taken at thirteen stations on Coeur d'Alene Lake in 1997. Euphotic zone depths were empirically derived using the regression equation EZD=2.2302+1.4914(SD)R²=.78 published by Alaska Fish and Game 1987. All measurements are in meters.

| Location | Station Depth | Average | | Spring | | Summer | | Fall | |
|---------------------|---------------|----------------------------|---------------------------|------------------------------|------------------------|------------------------------|------------------------|------------------------------|------------------------|
| | | Annual Secchi ^a | Annual Euphotic Zone | Seasonal Secchi ^b | Seasonal Euphotic Zone | Seasonal Secchi ^c | Seasonal Euphotic Zone | Seasonal Secchi ^d | Seasonal Euphotic Zone |
| Round Lake | 1.50 | 1.27 | Bottom (1.5) ^e | 1.20 | Bottom (1.5) | 1.31 | Bottom (1.5) | 1.23 | Bottom (1.5) |
| Chatcolet Shallow | 1.50 | .89 | Bottom (1.5) | 1.00 | Bottom (1.5) | 0.87 | Bottom (1.5) | 0.77 | Bottom (1.5) |
| Rockford Bay | 13.00 | 5.29 | 10.11 | 153 | 4.50 | 6.43 | 11.81 | 7.63 | 13.61 |
| Windy Bay Shallow | 14.00 | 4.58 | 9.05 | 1.66 | 4.71 | 5.37 | 10.24 | 6.60 | 12.07 |
| Carey Bay | 12.00 | 4.10 | 8.34 | 1.73 | 4.80 | 5.13 | 9.87 | 4.87 | 9.48 |
| Windy Bay Deep | 33.00 | 5.44 | 10.35 | 1.75 | 4.84 | 6.77 | 12.33 | 7.27 | 13.07 |
| Mid Lake | 18.00 | 4.08 | 8.31 | 1.74 | 4.82 | 5.00 | 9.68 | 5.03 | 9.73 |
| Conkling Point | 16.00 | 3.44 | 7.36 | 1.43 | 4.36 | 4.16 | 8.43 | 4.47 | 8.89 |
| Hidden Lake | 8.00 | 3.02 | 6.81 | 1.58 | 4.65 | 3.94 | 8.18 | 2.80 | 6.48 |
| Chatcolet Lake | 11.50 | 2.56 | 6.04 | 1.65 | 4.69 | 3.01 | 6.73 | 2.70 | 6.26 |
| Benewah Lake | 4.50 | 2.42 | 5.84 | 1.60 | 4.62 | 2.96 | 6.64 | 2.20 | 5.51 |
| Coeur d'Alene River | 10.00 | 3.92 | 8.08 | 1.50 | 4.47 | 4.73 | 9.28 | 5.27 | 10.08 |
| St. Joe River | 12.50 | 2.25 | 5.58 | 1.08 | 3.83 | 3.18 | 6.98 | 1.93 | 5.11 |

^aAverage annual secchi was calculated from April 18, 1997 to November 4, 1997.

^bAnnual Spring secchi is from April 18, 1997 to June 11, 1997.

^cAnnual Summer secchi is from June 26, 1997 to September 17, 1997.

^dAnnual Fall secchi is from September 29, 1997 to November 4, 1997.

^eNumbers in parenthesis represent the bottom in meters.

Table 3.3 Average annual and seasonal secchi measurements taken at thirteen stations on Coeur d'Alene Lake in 1998. Euphotic zone depths were empirically derived using the regression equation EZD=2.2302+1.4914(SD)R²=.78 published by Alaska Fish and Game 1987. All measurements are in meters.

| Location | Station Depth | Average | | Spring | | Summer | | Fall | | Winter | |
|---------------------|---------------|----------------------------|----------------------------|------------------------------|----------------------------|------------------------------|----------------------------|------------------------------|----------------------------|------------------------------|------------------------|
| | | Annual Secchi ^a | Annual Euphotic Zone | Seasonal Secchi ^b | Seasonal Euphotic Zone | Seasonal Secchi ^c | Seasonal Euphotic Zone | Seasonal Secchi ^d | Seasonal Euphotic Zone | Seasonal Secchi ^e | Seasonal Euphotic Zone |
| Round Lake | 2.00 | 1.27 | Bottom (2.00) ^f | 1.36 | Bottom (2.00) ^f | 1.29 | Bottom (2.00) ^f | 0.7 | Bottom (2.00) ^f | - | - |
| Chatcolet Shallow | 1.10 | 0.85 | Bottom (1.10) | 0.7 | Bottom (1.10) | 0.86 | Bottom (1.10) | 1 | Bottom (1.10) | - | - |
| Rockford Bay | 13.00 | 6.06 | 11.27 | 3.88 | 8.01 | 6.87 | 12.47 | 8.40 | 14.76 | 3.00 | 6.70 |
| Windy Bay Shallow | 15.00 | 5.47 | 10.39 | 3.43 | 7.34 | 6.22 | 11.50 | 7.87 | 13.96 | 2.00 | 5.21 |
| Carey Bay | 12.00 | 5.07 | 9.80 | 3.08 | 6.82 | 6.43 | 11.82 | 5.67 | 10.68 | 1.80 | 4.91 |
| Windy Bay Deep | 30.00 | 6.25 | 11.55 | 3.43 | 7.34 | 7.28 | 13.09 | 9.20 | 15.95 | 2.50 | 5.96 |
| Mid Lake | 18.00 | 5.27 | 10.09 | 2.90 | 6.56 | 6.93 | 12.57 | 6.23 | 11.53 | 1.90 | 5.06 |
| Conkling Point | 15.00 | 4.42 | 8.82 | 2.92 | 6.59 | 5.47 | 10.39 | 4.47 | 8.89 | - | - |
| Chatcolet Lake | 10.00 | 3.37 | 7.26 | 2.60 | 6.11 | 4.50 | 8.94 | 2.57 | 6.06 | 1.00 | 3.72 |
| Hidden Lake | 7.00 | 3.52 | 7.48 | 2.14 | 5.42 | 4.77 | 9.35 | 2.90 | 6.56 | - | - |
| Benewah Lake | 4.50 | 2.51 | 5.98 | 1.53 | 4.51 | 3.29 | 7.13 | 2.00 | 5.21 | - | - |
| Coeur d'Alene River | 10.00 | 5.05 | 9.76 | 3.15 | 6.93 | 6.02 | 11.20 | 6.67 | 12.17 | 2.00 | 5.21 |
| St. Joe River | 11.00 | 3.75 | 7.83 | 3.88 | 8.02 | 3.84 | 7.95 | 3.10 | 6.85 | - | - |

^aAverage annual secchi was calculated from March 13, 1998 through November 17, 1998.

^bAnnual Spring secchi is from March 22, 1998 to June 21, 1998.

^cAnnual Summer secchi is from June 22, 1998 to September 21, 1998.

^dAnnual Fall secchi is from September 22, 1998 to December 21, 1998.

^eAnnual Winter secchi is from December 22, 1998 to March 21, 1998.

^fNumbers in parenthesis represent the bottom in meters.

3.1.2 Fisheries

Coeur d'Alene Lake has been sampled on a regular basis since 1994. In 1994, 1,418 fish were sampled by electrofishing and 211 fish were sampled using horizontal gillnets. During 1995, 1,727 fish were sampled by electrofishing and 78 fish were sampled using horizontal gillnets. In 1996, 536 fish were sampled by electroshocking and 286 fish were sampled using horizontal gillnets. Largescale suckers and yellow perch were the two most frequently sampled fish for all three years by electroshocking. Yellow perch, northern pikeminnow and largescale suckers were the most frequently sampled fish in the horizontal gillnets during all three years. Refer to Peters et al. (1999) for a detailed analysis of relative abundance data for all three years.

In 1994, 20 hours and 56 minutes were spent electroshocking and gillnets were set for 69 hours. During 1995, 24 hours and 53 minutes were spent electroshocking and gillnets were set for 79 hours. In 1996, 12 hours were spent electroshocking and gillnets were set for 170 hours and 50 minutes. Refer to Peters et al. (1999) for a detailed analysis of the CPUE data from 1994-1996.

During 1997 and 1998, Coeur d'Alene Lake was sampled a total of eleven times. 11,806 fish were sampled by electroshocking and 1,372 fish were sampled using horizontal and vertical gillnets. During both years largescale suckers were the most abundant fish sampled by electroshocking and yellow perch were the most abundant fish sampled in gillnets.

Table 3.4 Electroshocking relative abundance results from 1997 and 1998 for Coeur d'Alene Lake.

| Species | 1997 n=4599 | Species | 1998 n=7207 |
|---------|----------------|---------|----------------|
| LSS | 28.55% (1313) | LSS | 24.6% (1771) |
| YP | 22.94% (1055) | LMB | 16.4% (1179) |
| PSS | 10.55% (485) | YP | 16% (1155) |
| LMB | 09.92% (456) | BC | 14.9% (1073) |
| SQW | 09.35% (430) | PSS | 09.4% (676) |
| BC | 08.52% (392) | SQW | 08.1% (585) |
| BBH | 04.02% (185) | BBH | 04.6% (333) |
| TCH | 03.50% (161) | TCH | 04.1% (297) |
| CTT | 0.78% (36) | CTT | 0.6% (40) |
| PIK | 0.50% (23) | PIK | 0.5% (36) |
| SCP | 0.43% (20) | CHN | 0.3% (21) |
| KOK | 0.33% (15) | SMB | 0.2% (17) |
| CHN | 0.30% (14) | MWF | 0.1% (10) |
| MWF | 0.15% (7) | SCP | 0.1% (9) |
| CCF | 0.09% (4) | CCF | 0.1% (5) |
| SMB | 0.04% (2) | | |
| RBT | 0.02% (1) | | |
| BLT | 0 | | |

In 1997, 4,599 fish were sampled over a four-month period (July – October). It's known that there are twenty-one different species of fish in the lake. Seventeen of the twenty-one fish species were sampled by electroshocking (Table 3.4). Largescale suckers were the most frequently sampled fish. They made up more than $\frac{1}{4}$ of the catch at 28.55% (1313). Yellow perch were second at 22.94% (1055), followed by pumpkinseed at 10.55% (485), largemouth bass 9.92% (456), northern pikeminnow 9.35% (430), black crappie 8.52% (392), brown bullhead 4.02% (185), tench 3.50% (161), cutthroat trout 0.78% (36), northern pike 0.50% (23), sculpin 0.43% (20), kokanee trout 0.33% (15), chinook salmon 0.30% (14), mountain whitefish 0.15% (7), channel catfish 0.09% (4), smallmouth bass 0.04% (2), and rainbow trout 0.02% (1).

In 1997, exotic species made up 60.73% of the electrofishing catch while native species made up the rest. Non-game native species made up 38.33% of the catch while native game fish made up only 0.93% of the catch.

During 1997, 42 hours and 27 minutes were spent electroshocking (Table 3.5). Largescale suckers had the highest CPUE (fish/hr) at 30.93. Yellow perch were next at 24.85, pumpkinseed 11.43, largemouth bass 10.74, northern pikeminnow 10.13, black crappie 9.23, brown bullhead 4.36, tench 3.79, cutthroat trout 0.85, northern pike 0.54, sculpin 0.47, kokanee salmon 0.35, chinook salmon 0.33, mountain whitefish 0.16, channel catfish 0.09, smallmouth bass 0.05, and rainbow trout 0.02.

In 1997, horizontal gillnets were used at all of the sites and a total of 636 fish were sampled (Table 3.6). Thirteen out of the twenty-one species were sampled. The species most frequently sampled was yellow perch at 34.28% (218). Largescale suckers were next at 21.23% (135), followed by northern pikeminnow 18.55% (118), kokanee salmon 10.06% (64), brown bullhead 7.39% (47), black crappie 2.52% (16), cutthroat trout 1.42% (9), tench 1.26% (8), pumpkinseed 0.94% (6), chinook salmon 0.79% (5), channel catfish 0.63% (4), and mountain whitefish 0.16% (1).

In 1997, exotic species made up 58.66% of the gillnet catch while native species made up the rest. Non-game native species made up 39.78% of the catch while native game fish made up 1.58% of the catch.

Horizontal gillnets were set for 677 hours in 1997 (Table 3.7). Yellow perch had the highest CPUE at 0.32 followed by largescale suckers 0.20. Next were northern pikeminnow 0.17, kokanee salmon 0.09, brown bullhead 0.07, black crappie 0.02, cutthroat trout 0.01, tench 0.01, pumpkinseed 0.01, chinook salmon 0.01, northern pike 0.01, channel catfish 0.01 and mountain whitefish 0.001.

Coeur d'Alene Lake was sampled seven times (April-October) during 1998. 7,207 fish were sampled during 1998 (Table 3.4) and fifteen out of the twenty-one species were sampled. The most frequently sampled fish was the largescale sucker 24.6% (1771). Largemouth bass typically not as abundant was the second most frequently taken fish 16.4% (1179). Next were yellow perch 16.0% (1155), black crappie 14.9% (1073), pumpkinseed 9.4% (676), northern pikeminnow 8.1% (585), brown bullhead 4.6% (333), tench 4.1% (297), cutthroat trout 0.6% (40), northern pike 0.5% (36), chinook salmon 0.3% (21), smallmouth bass 0.2% (17), mountain whitefish 0.1% (10), sculpin 0.1% (9), and channel catfish 0.1% (5).

In 1998, exotic species made up 66.5% of the electrofishing catch while native species made up the rest. Non-game native species made up 32.80% of the catch while native game fish made up 0.7% of the catch.

Table 35 Electrostoking catch per unit effort during 1997.

| Species | 1997 | |
|---------|--------|--------------------------|
| | n=4599 | Hr./min. 42.27 |
| LSS | 1313 | 30.93 |
| YP | 1055 | 24.85 |
| PSS | 485 | 11.43 |
| LMB | 456 | 10.74 |
| SQW | 430 | 10.13 |
| BC | 392 | 9.23 |
| BBH | 185 | 4.36 |
| TCH | 161 | 3.79 |
| CTT | 36 | 0.85 |
| PIK | 23 | 0.54 |
| SCP | 20 | 0.47 |
| KOK | 15 | 0.35 |
| CHN | 14 | 0.33 |
| MWF | 7 | 0.16 |
| CCF | 4 | 0.09 |
| SMB | 2 | 0.05 |
| RBT | 1 | 0.02 |
| BLT | 0 | 0.00 |

Table 3.6 Gillnetting relative abundance results from 1997 and 1998 for Coeur d'Alene Lake.

| Species | 1997 | | 1998 | |
|---------|--------------|--|---------|-------------|
| | n=636 | | Species | n=636 |
| YP | 34.28% (218) | | YP | 52.6% (335) |
| LSS | 21.23% (135) | | SQW | 20.4% (130) |
| SQW | 18.55% (118) | | LSS | 09.3% (59) |
| KOK | 10.06% (64) | | BBH | 05.7% (36) |
| BBH | 07.39% (47) | | KOK | 03.8% (24) |
| BC | 02.52% (16) | | BC | 02.4% (15) |
| CTT | 01.42% (9) | | PIK | 02.4% (15) |
| TCH | 01.26% (8) | | CTT | 01.4% (9) |
| PSS | 0.94% (6) | | CHN | 01.3% (8) |
| CHN | 0.79% (5) | | TCH | 0.5% (3) |
| PIK | 0.79% (5) | | RBT | 0.2% (1) |
| CCF | 0.63% (4) | | LMB | 0.2% (1) |
| MWF | 0.16% (1) | | | |

In 1998, 64 hours and 36 minutes were spent electrofishing (Table 3.8). Largescale suckers had the highest CPUE at 27.52 fish/hour. Largemouth bass were second at 18.32 followed by yellow perch 17.95, black crappie 16.67, pumpkinseed 10.50, northern pikeminnow 9.09, brown bullhead 5.17, tench 4.61, cutthroat trout 0.62, northern pike 0.56, chinook salmon 0.33, smallmouth bass 0.26, mountain whitefish 0.16, sculpin 0.14, and channel catfish 0.08.

During 1998, vertical gillnets were used to sample deep open water and horizontal nets were used in shallow lakes and bays. In 1998, 636 fish were sampled using the vertical and horizontal gillnets (Table 3.5). Yellow perch were the most abundant fish species making up more than half of the catch 52.6% (335). Northern pikeminnow were the second most frequently sampled fish at 20.4% (130), followed by largescale suckers 9.3% (59), brown bullhead 5.7% (36), kokanee salmon 3.8% (24), black crappie 2.4% (15), northern pike 2.4% (15), cutthroat trout 1.4% (9), chinook salmon 1.39% (8), tench 0.5% (3), rainbow trout 0.2% (1), and largemouth bass 0.2% (1).

Table 3.7 Gillnetting catch per unit effort during 1997.

| Species | (n=636) | 1997 | |
|---------|---------|------|---------------------|
| | | | Hours 677 |
| YP | 218 | | 0.32 |
| LSS | 135 | | 0.20 |
| SQW | 118 | | 0.17 |
| KOK | 64 | | 0.09 |
| BBH | 47 | | 0.07 |
| BC | 16 | | 0.02 |
| CTT | 9 | | 0.01 |
| TCH | 8 | | 0.01 |
| PSS | 6 | | 0.01 |
| CHN | 5 | | 0.01 |
| PIK | 5 | | 0.01 |
| CCF | 4 | | 0.01 |
| MWF | 1 | | 0.00 |
| BLT | 0 | | 0.00 |
| LMB | 0 | | 0.00 |
| RBT | 0 | | 0.00 |
| SCP | 0 | | 0.00 |
| SMB | 0 | | 0.00 |

Table 3.8 Electroshocking catch per unit effort during 1998.

| Species | N=7202 | 1998 | |
|---------|--------|------|--------------------------|
| | | | Hr./min. 64.36 |
| LSS | 1771 | | 27.52 |
| LMB | 1179 | | 18.32 |
| YP | 1155 | | 17.95 |
| BC | 1073 | | 16.67 |
| PSS | 676 | | 10.50 |
| SQW | 585 | | 9.09 |
| BBH | 333 | | 5.17 |
| TCH | 297 | | 4.61 |
| CTT | 40 | | 0.62 |
| PIK | 36 | | 0.56 |
| CHN | 21 | | 0.33 |
| SMB | 17 | | 0.26 |
| MWF | 10 | | 0.16 |
| SCP | 9 | | 0.14 |
| CCF | 5 | | 0.08 |

In 1998, exotic species made up 69.1% of the gillnet catch while native species made up the rest. Non-game native species made up 29.7% of the catch while native game fish made up 1.4% of the catch.

In 1998, 968 hours were spent having vertical and horizontal gillnets in the water (Table 3.9). Yellow perch had the highest CPUE at 0.346. Northern pikeminnow was second with 0.134, followed by largescale suckers 0.061, brown bullhead 0.037, kokanee salmon 0.025, black crappie 0.015, northern pike 0.015, cutthroat trout 0.009, chinook salmon 0.008, tench 0.003, rainbow trout 0.001, and largemouth bass 0.001.

Age Analysis

Total number of fish scaled in was 1,499 in 1997; and 2,582 in 1998. Graphs showing the age distribution, length and weight frequency distribution and length and weight regression analysis are in Appendix D. In order to perform a regression analysis on aged fish we needed at least four different age classes. Chinook salmon, mountain whitefish, and smallmouth bass were lacking the four-age class requirement, so the data was combined from 1997 and 1998 for these three species. There was no regression analysis done on rainbow trout because only two fish have been sampled. Channel catfish were sampled in 1997 but they were not aged. In 1998, Dr. Scarneccchia, professor at University of Idaho aged the five channel catfish spines.

When comparing the mean length and weight, standard deviation and range for aged fish during the two sample years, the results vary slightly (Appendix E). Roughly the same number of yellow perch were sampled in 1997 and 1998. The statistical results were almost identical for each age group. On the other hand the statistical analysis for kokanee salmon showed an increase in mean length and weight from 1997 to 1998.

Habitat Suitability Index

When comparing the 1997 and 1998 (Table 3.10 & 3.11) habitat suitability indexes, Carey Bay and Conkling Point provided the same cutthroat habitat both years and other sites saw a dramatic decrease in habitat suitability. Rockford Bay and Windy Bay Shallow saw a decrease in the depth range of 7-11 meters. Rockford Bay went from 0.845 SI to 0.0 SI and Windy Bay Shallow from 0.94 SI to 0.0 SI. Hidden Lake and Chatcolet Lake Deep both saw an improvement in their bottom depth zone. Hidden Lake went from 0.0 SI to 0.67 SI and Chatcolet Lake Deep from 0.0 SI to 0.88 SI.

Table 3.9 Gillnetting catch per unit effort during 1998.

| Species | 1998 | |
|---------|-------|---------------------|
| | n=636 | Hours 968 |
| YP | 335 | 0.346 |
| SQW | 130 | 0.134 |
| LSS | 59 | 0.061 |
| BBH | 36 | 0.037 |
| KOK | 24 | 0.025 |
| BC | 15 | 0.015 |
| PIK | 15 | 0.015 |
| CTT | 9 | 0.009 |
| CHN | 8 | 0.008 |
| TCH | 3 | 0.003 |
| RBT | 1 | 0.001 |
| LMB | 1 | 0.001 |

Except for only a few areas it appears that the upper ten meters of Coeur d'Alene Lake is unsuitable for cutthroat trout (Table 3.10 & 3.11). This is based primarily on summertime daily maximum temperatures exceeding what is considered optimum for cutthroat trout survival. HSI's calculated in 1995 and 1996 for the same sample areas showed similar results (Peters et. al. 1999). In areas where temperatures are within

the tolerance limits for cutthroat trout (primarily the hypolimnion) dissolve oxygen content becomes a factor. When temperatures are reaching their maximum dissolved oxygen in the hypolimnion drops below what is considered optimum for cutthroat trout. Thus, cutthroat trout are unable to seek refuge from the high water temperatures in the lower depths of the lake due to suboptimal dissolved oxygen concentrations.

3.2 Stream Studies

3.2.1 Water Quality

Lake Creek

Water temperature measured at the lower Lake Creek station indicated an instantaneous maximum of 25.5° C on July 25th, 1998. The 7-day average maximum temperature at the same station exceeded 16° C from July 4th through September 10th. Daily temperature fluctuations ranged from 6.2° C to 8.6° C during this period, indicating that substantial over-night cooling did take place. Temperatures recorded at the upper Lake Creek station were considerably lower. The 7-day average maximum temperature exceeded 16° C from July 23rd to August 6th, with an instantaneous maximum temperature of 19°C. Gaps in data prior to July 23rd, however, may have missed several days of high temperatures. Measured levels of dissolved oxygen generally did not drop below 9 mg/L at the lower station, where the highest temperatures were recorded.

Benewah Creek

A maximum temperature of 26° C was recorded at the mouth of Benewah Creek on July 25th and 26th, 1998. The 7-day average maximum temperature exceeded 16° C from June 29th through September 6th, and minimum temperature did not fall below 16° C between July 8th and September 2nd. Dissolved oxygen did not fall below 9 mg/l during the period of highest water temperatures at this same site. Discharge at the 3 mile station ranged from 5.2 to 1.1 cfs from July through September.

Tributary habitats generally provided more suitable water temperatures than mainstem reaches however diminished water quality was frequently noted. In S.F. Benewah Creek, maximum instantaneous water temperature was 21°C and 7-day average maximum temperature exceeded 16° C for just 12 days. Measured levels of dissolved oxygen did not drop below 9 mg/l during the period of highest temperatures. Discharge, however, was less than 1.0 cfs from mid July through early November. School House Creek was also a source of cold water and the 7-day average maximum temperature exceeded 16° C for just 13 days. There were periods, however, where habitat consisted of stagnant pools from July through August and dissolved oxygen decreased from 5.8 to 2.3 mg/l during this time. The average daily temperature in Windfall Creek exceeded 16° C from July through mid August. A maximum temperature of 27.5° C was recorded on July 27. There was little flow in Windfall Creek from late July through August and dissolved oxygen dropped below 9 mg/l during this period. In Whitetail Creek, the average daily water temperature exceeded 16°C from mid-July through mid-August and stream flow decreased to zero.

Evans Creek

A maximum instantaneous water temperature of 18.5° C was recorded several times between July 26th and August 5th, 1998. The 7-day average maximum temperature exceeded 16° C for 12 days in late July and early August. Average daily water temperature may have exceeded 16°C in mid July as well, but temperature monitors were not deployed until July 23rd. Measured levels of dissolved oxygen did not drop below 9 mg/l during the period of highest water temperatures. Stream flow ranged from 4.5 to 2.7 cfs from mid-August through early October.

Alder Creek

The maximum instantaneous water temperature was 24° C on July 27th and 28th, 1998. The 7-day average maximum temperature exceeded 16° C from July through mid August. Measured levels of dissolved oxygen did not drop below 9 mg/l during the period of highest water temperatures and base flows ranged from 2.3 to 0.4 cfs during the same period.

Table 3.10 Habitat suitability index for lacustrine Cutthroat Trout based on water quality for 1997.

| Location | Depth | HSI ^a | Suitability Index |
|------------------------|-----------------------------|----------------------------------|-------------------|
| Rockford Bay | 0-7 Meters | $(0.25 \times 1 \times 1)^{1/3}$ | = 0.25 SI |
| | 7-11 Meters | $(0.60 \times 1 \times 1)^{1/3}$ | = 0.845 SI |
| | 11-Bottom (14) ^b | $(1 \times 1 \times 1)^{1/3}$ | = 1.0 SI |
| Windy Bay Shallow | 0-7 Meters | $(0.0 \times 1 \times 1)^{1/3}$ | = 0.0 SI |
| | 7-10 Meters | $(0.85 \times 1 \times 1)^{1/3}$ | = 0.94 SI |
| | 10-Bottom (15) | $(1 \times 1 \times 1)^{1/3}$ | = 1.0 SI |
| Windy Bay Deep | 0-10 Meters | $(0.0 \times 1 \times 1)^{1/3}$ | = 0.0 SI |
| | 10-15 Meters | $(0.85 \times 1 \times 1)^{1/3}$ | = 0.94 SI |
| | 15-Bottom (33) | $(1 \times 1 \times 1)^{1/3}$ | = 1.0 SI |
| Coeur d'Alene River | 0-Bottom | $(0.0 \times 1 \times 1)^{1/3}$ | = 0.0 SI |
| Mid-Lake Coeur d'Alene | 0-10 Meters | $(0.0 \times 1 \times 1)^{1/3}$ | = 0.0 SI |
| | 10-13 Meters | $(0.85 \times 1 \times 1)^{1/3}$ | = 0.94 SI |
| | 13-Bottom (17) | $(1 \times 1 \times 1)^{1/3}$ | = 1.0 SI |
| Carey Bay | 0-10 Meters | $(0.0 \times 1 \times 1)^{1/3}$ | = 0.0 SI |
| | 10-12 Meters | $(0.85 \times 1 \times 1)^{1/3}$ | = 0.94 SI |
| | 12-Bottom (13) | $(1 \times 1 \times 1)^{1/3}$ | = 1.0 SI |
| Conkling Point | 0-10 Meters | $(0.0 \times 1 \times 1)^{1/3}$ | = 0.0 SI |
| | 10-13 Meters | $(0.85 \times 1 \times 1)^{1/3}$ | = 0.94 SI |
| | 13-Bottom (16) | $(1 \times 1 \times 1)^{1/3}$ | = 1.0 SI |
| Hidden Lake | 0-5 Meters | $(0.0 \times 1 \times 1)^{1/3}$ | = 0.0 SI |
| | 5-7 Meters | $(0.8 \times 1 \times 1)^{1/3}$ | = 0.92 SI |
| | 7-Bottom (10) | $(1 \times 0.0 \times 1)^{1/3}$ | = 0.0 SI |
| Round Lake | 0-Bottom (1.5) | $(0.0 \times 1 \times 1)^{1/3}$ | = 0.0 SI |
| Chatcolet Lake Deep | 0-6 Meters | $(0.0 \times 1 \times 1)^{1/3}$ | = 0.0 SI |
| | 6-9 Meters | $(0.85 \times 1 \times 1)^{1/3}$ | = 0.94 SI |
| | 9-Bottom (11) | $(1 \times 0.0 \times 1)^{1/3}$ | = 0.0 SI |
| Chatcolet Lake Shallow | 0-Bottom (1.5) | $(0.0 \times 1 \times 1)^{1/3}$ | = 0.0 SI |
| Benewah Lake | 0-Bottom (4.5) | $(0.0 \times 1 \times 1)^{1/3}$ | = 0.0 SI |
| St. Joe River | 0-Bottom (12.5) | $(0.4 \times 1 \times 1)^{1/3}$ | = 0.4 SI |

^a Habitat Suitability Index (HSI).

^b Numbers in parenthesis represent the bottom in meters.

Table 3.11 Habitat suitability index for lacustrine cutthroat trout based on water quality for 1998.

| Location | Depth | HSI ^a | Suitability Index |
|------------------------|-----------------------------|----------------------------|-------------------|
| Rockford Bay | 0-7 meters | (0x1x1) ^{1/3} | = 0.0 SI |
| | 7-11 meters | (0x1x1) ^{1/3} | = 0.0 SI |
| | 11-bottom (14) ^b | (.7x1x1) ^{1/3} | = 0.89 SI |
| Windy Bay Shallow | 0-7 meters | (0x1x1) ^{1/3} | = 0.0 SI |
| | 7-10 meters | (0x1x1) ^{1/3} | = 0.0 SI |
| | 10-bottom (16) | (.45x1x1) ^{1/3} | = 0.77 SI |
| Windy Bay Deep | 0-10 meters | (0x1x1) ^{1/3} | = 0.0 SI |
| | 10-15 meters | (.46x1x1) ^{1/3} | = 0.77 SI |
| | 15-bottom (32) | (1x1x1) ^{1/3} | = 1.0 SI |
| Coeur d'Alene River | 0-bottom (12) | (0x1x1) ^{1/3} | = 0.0 SI |
| Mid-Lake Coeur d'Alene | 0-10 meters | (0x1x1) ^{1/3} | = 0.0 SI |
| | 10-13 meters | (.95x1x1) ^{1/3} | = 0.98 SI |
| | 13-bottom (19) | (1x.85x1) ^{1/3} | = 0.95 SI |
| Carey Bay | 0-10 meters | (0x1x1) ^{1/3} | = 0.0 SI |
| | 10-12 meters | (.84x1x1) ^{1/3} | = 0.94 SI |
| | 12-bottom (14) | (1x1x.98) ^{1/3} | = 0.99 SI |
| Conkling Point | 0-10 meters | (0x1x1) ^{1/3} | = 0.0 SI |
| | 10-13 meters | (.75x1x1) ^{1/3} | = 0.91 SI |
| | 13-bottom (16) | (1x.86x1) ^{1/3} | = 0.95 SI |
| Hidden Lake | 0-5 meters | (0x1x1) ^{1/3} | = 0.0 SI |
| | 5-7 meters | (.24x.8x1) ^{1/3} | = 0.58 SI |
| | 7-bottom (9) | (1x.30x1) ^{1/3} | = 0.67 SI |
| Round Lake | 0-bottom (2) | (0x1x1) ^{1/3} | = 0.0 SI |
| Chatcolet Lake Deep | 0-6 meters | (0x1x1) ^{1/3} | = 0.0 SI |
| | 6-9 meters | (.65x.79x1) ^{1/3} | = 0.80 SI |
| | 9-bottom (11) | (1x.68x1) ^{1/3} | = 0.88 SI |
| Chatcolet Lake Shallow | 0-bottom (1.1) | (0x1x1) ^{1/3} | = 0.0 SI |
| Benewah Lake | 0-bottom (5) | (0x0x1) ^{1/3} | = 0.0 SI |
| St. Joe River | 0-bottom (13) | (0x1x1) ^{1/3} | = 0.0 SI |

^a Habitat Suitability Index (HSI).

^b Numbers in parenthesis represent the bottom in meters.

3.2.2. Spawning Gravel Survey and Analysis

Cutthroat trout primarily reside and spawn in reaches of small (1-4 meters wide) tributaries with moderate gradients (1.0-4.4%) and suitable spawning gravels (Table 3.12). Substrate embeddedness was high at the sampled sites, averaging about 50 percent. Proportion of potential spawning gravel was low and did not vary much among sites (mean = 4.1 ± 2.1). We found no association between abundance of suitable spawning gravels and reach gradient, proportion of riffle habitat, proportion of pea gravel, or proportion of gravel substrate.

Table 3.12 Means of habitat features in spawning reaches of Alder (A), Benewah (B), Evans (E), and Lake (L) creeks and their major tributaries.

| Reach | Gradi-ent (%) | Width (ft.) | Depth (ft.) | Embed-dedness ^a | Percent by Area | | | | | |
|----------------|---------------|-------------|-------------|----------------------------|-----------------|--------|------|------------|--------|--------|
| | | | | | Spawning gravel | Riffle | Silt | Pea gravel | Gravel | Rubble |
| Alder | | | | | | | | | | |
| A9 | 2.3 | 6.3 | 1.1 | 2.4 | 5.5 | 30 | 10 | 65 | 25 | 0 |
| North Fork | 2.3 | 11.6 | 1.5 | 2.6 | 2.8 | 9 | 10 | 51 | 33 | 6 |
| Benewah | | | | | | | | | | |
| B12 | 1.0 | 16.0 | 2.4 | 3.4 | 1.5 | 14 | 8 | 45 | 40 | 7 |
| Bull | 3.0 | 6.3 | 1.4 | 3.0 | 1.1 | 42 | 4 | 58 | 38 | 0 |
| School House | 1.6 | 5.9 | 1.5 | 4.0 | 5.7 | 14 | 7 | 64 | 28 | 1 |
| South Fork | 3.9 | 7.3 | 1.0 | 3.2 | 3.3 | 27 | 5 | 34 | 31 | 13 |
| West Fork | 4.4 | 5.0 | 0.9 | 2.6 | 6.9 | 20 | 9 | 61 | 27 | 2 |
| Whitetail | 4.2 | 6.3 | 1.0 | 2.2 | 8.9 | 31 | 7 | 34 | 49 | 10 |
| Windfall | 1.6 | 6.6 | 1.1 | 2.4 | 5.1 | 10 | 5 | 41 | 38 | 16 |
| Evans | | | | | | | | | | |
| R5 | 6.0 | 10.0 | 1.5 | 1.0 | 1.3 | 0 | 7 | 41 | 27 | 15 |
| R6 | 7.5 | 3.5 | 0.9 | 1.5 | 2.4 | 0 | 10 | 46 | 33 | 8 |
| R7 | 7.5 | 4.0 | 0.9 | 3.0 | 3.5 | 0 | 7 | 47 | 35 | 7 |
| East Fork | 4.0 | 4.5 | 1.5 | 1.0 | 3.9 | 0 | 6 | 46 | 48 | 0 |
| South Fork | 9.5 | 3.0 | 0.9 | 3.0 | 4.1 | 0 | 3 | 26 | 53 | 15 |
| Lake | | | | | | | | | | |
| L8 | 1.2 | 5.5 | 1.6 | 3.8 | 3.5 | 32 | 6 | 66 | 28 | 0 |
| Bozard | 2.4 | 5.7 | 1.4 | 3.3 | 4.9 | 40 | 5 | 36 | 48 | 11 |
| West Fork | 3.9 | 5.1 | 0.8 | 2.9 | 5.0 | 44 | 7 | 43 | 46 | 4 |

^a Rated on a scale from 1 to 4 for percent of substrate embedded: 1 = >75%; 2 = 50 – 75%; 3 = 25 – 50%; 4 = 0 – 25% (Platts et al. 1983).

Predicted emergence success was generally high, averaging 41.8 percent for all sampled sites (Table 3.13). Emergence success was positively correlated to the F_i at each site ($r^2 = 0.79$). The lowest values were observed in upper Lake Creek, where silt and sand sized particles comprised 63 and 89 percent of the core samples, respectively at the two sampled sites. Fry production was also positively correlated to the availability of spawning gravel in the sampled reaches ($r^2 = 0.77$), except at the same two sites in upper Lake Creek where available gravels were heavily embedded with fines. The production potentials for sampled sites ranged from 0 to 5224 fry/100 square meters (mean=1544.1±867.8). The highest calculated values occurred in several tributaries to Benewah Creek.

3.2.3 Population Surveys

General patterns of cutthroat trout abundance and distribution vary among the target watersheds but are consistent from year to year and seem to be highly correlated to seasonal changes in water quality and quantity. As reported in past years (Peters et al. 1999; Lillengreen et al. 1996), cutthroat trout were sporadically distributed in the Lake, Benewah, and Alder Creek watersheds during base flow condition in the summer (Tables 3.14). Abundance in the second order tributaries was consistently much higher than in adjacent mainstem reaches for both Lake Creek (mean = 19.4 fish/100 sq. m. versus 1.2 fish/100 sq. m.) and Benewah Creek (mean = 14.5 fish/100 sq. m. versus 0.5 fish/100 sq. m.), despite the effects of low flow conditions. During base flow conditions, for example, cutthroat trout were observed crowding

(>15 fish/sq. m.) into small, isolated pools located in cool tributaries, rather than face conditions of high water temperatures in mainstem reaches. In contrast, favorable temperature and flow conditions in the Evans Creek watershed resulted in a more even distribution of cutthroat trout (mean = 2.7 fish/100 sq. m., range = 1.0-4.8) in the lower mainstem reaches. The highest recorded abundance still occurred in the upper mainstem and primary tributaries where the majority of spawning activity is thought to take place. Of all the target watersheds, abundance has been consistently lowest in Alder Creek, with much of the upper watershed and the North Fork devoid of cutthroat.

Brook trout have been found only in the Alder Creek and Benewah Creek watersheds--their respective dates of introduction are unknown. In Alder Creek, brook trout are found in greater numbers than cutthroat trout in all but the lowermost stream reaches (Table 3.15). Fish were distributed fairly evenly (mean = 3.6 fish/100 sq. m.) in 11 of 13 sampled stream reaches. The remaining two reaches are influenced by vast beaver dam complexes and supported significantly higher populations (17.0 and 18.8 fish/100 sq. m., respectively). Distribution in the Benewah Creek watershed was limited to the upper mainstem and Windfall Creek. Abundance of brook trout ranged from 0.4-17.7 fish/100 square meters, and was much lower than for cutthroat trout in all sampled reaches.

Analysis of the age frequency of cutthroat trout caught during population surveys indicated that 88% of the catch consisted of juveniles (age 0-3) when averaged across all watersheds (Table 3.16). Young of the year cutthroat comprised an unusually high percentage of the catch (50.2%) in the Lake Creek watershed.

Table 3.13 Number of cores, mean fredle index (F_i) of substrate composition of cores (range in parentheses), predicted mean emergence success, and mean estimated production potential for reaches in the Alder Creek, Benewah Creek, Evans Creek, and Lake Creek subbasins and their primary tributaries.

| Reach or subbasin | Number of cores | F_i | Emergence success | Production potential (# of fry/100 square meters) |
|-------------------|-----------------|-----------------------|-------------------|--|
| Alder | 5 | 7.8 (6.0-11.2) | 47.9 | 1459 |
| A9 | 1 | 6.0 | 45.4 | 2271 |
| North Fork | 4 | 8.2 (7.0-11.2) | 48.5 | 1256 |
| Benewah | 9 | 7.1 (2.4-16.6) | 42.4 | 1857 |
| B12 | 1 | 3.7 | 43.4 | 596 |
| Bull | 1 | 16.6 | 67.1 | 654 |
| School House | 1 | 5.3 | 40.8 | 2108 |
| South Fork | 2 | 2.8 (2.4-3.1) | 27.7 | 814 |
| West Fork | 2 | 5.9 (4.7-7.1) | 37.8 | 2859 |
| Whitetail | 1 | 7.6 | 39.7 | 3230 |
| Windfall | 1 | 13.8 | 59.7 | 2777 |
| Evans | 8 | 8.8 (2.7-13.7) | 49.3 | 1425 |
| R5 | 1 | 7.1 | 45.6 | 560 |
| R6 | 2 | 11.1 (8.5-13.7) | 58.4 | 1265 |
| R7 | 2 | 10.4 (10.0-10.7) | 54.1 | 1827 |
| East Fork | 1 | 2.7 | 15.8 | 558 |
| South Fork | 2 | 8.8 (6.6-11.0) | 54.3 | 2051 |
| Lake | 7 | 4.5 (0.8-7.1) | 28.1 | 1338 |
| L8 | 2 | 0.9 (0.8-0.9) | 0 | 0 |
| Bozard | 3 | 5.4 (4.1-6.7) | 40.8 | 1991 |
| West Fork | 2 | 6.4 (5.9-7.1) | 37.2 | 1698 |
| Totals | 29 | 7.1 | 41.8 | 1544 |

Age and Growth

A total of 614 cutthroat and brook trout scales were examined for age and growth determination in 1998. Growth and potential maximum size of cutthroat trout varied from stock to stock (Table 3.17). As in past years, the adfluvial stocks found in Benewah Creek and Lake Creek exhibit the maximum growth potential for this species. The largest cutthroat recorded in Lake Creek for 1998 measured 16.3 inches (415 mm TL) and 1.5 pounds (667 grams), while the largest fish in Benewah Creek measured 15.2 inches (385 mm TL) and 1.3 pounds (570 grams). Maximum growth for resident fish stocks ranged from 222 to 280mm total length and 102 to 180 grams. A complete tabular analysis of growth for cutthroat trout is provided in (Appendix F).

Table 3.14 Cutthroat trout abundance and distribution by watershed, 1998.

| Lake Creek Cutthroat Trout | | Summer 98 | | | | |
|-------------------------------|-----------|--------------|----------|-------------|---------|------|
| Tributary | Reach | Area (sq. m) | N±(SE) | #/100 sq. m | Total # | |
| Mainstem | 1 | 5396 | 0.0 | 0.0 | 0 | |
| | 4 | 2696 | 0.0 | 0.0 | 0 | |
| | 5 | 2555 | 0.0 | 0.0 | 0 | |
| | 6 | 11668 | 28(2.6) | 4.9 | 572 | |
| | 7 | 13284 | 7(0.0) | 1.1 | 146 | |
| | 8 | 9715 | 26(0.5) | 6.1 | 593 | |
| | West Fork | 9,10 | 6270 | 125(1.7) | 42.0 | 2633 |
| | Bizard | 1,2,3 | 11085 | 28(2.5) | 10.0 | 1109 |
| Total | | 62669 | 214(4.0) | | 5053 | |

| Evans Creek Cutthroat Trout | | Summer 98 | | | | |
|--------------------------------|-----------|--------------|----------|-------------|---------|-----|
| Tributary | Reach | Area (sq. m) | N±(SE) | #/100 sq. m | Total # | |
| Mainstem | 1 | 4977 | 4(0.0) | 1.0 | 50 | |
| | 2 | 7227 | 21(2.2) | 2.2 | 159 | |
| | 3 | 1970 | 8(0.0) | 2.7 | 53 | |
| | 4 | 10127 | 20(1.6) | 2.8 | 284 | |
| | 5 | 2692 | 16(2.2) | 4.8 | 129 | |
| | 6 | 1178 | 12(0.8) | 9.2 | 108 | |
| | 7 | 2231 | 12(0.6) | 8.1 | 181 | |
| | E.F.Evans | 1 | 3990 | 23(3.6) | 12.4 | 495 |
| R.F.Evans | | 1 | 2099 | 6(0.8) | 8.1 | 170 |
| S.F.Evans | | 12 | 1126 | 14(3.0) | 12.6 | 142 |
| Total | | 37616 | 136(3.0) | | 1771 | |

| Benewah Creek Cutthroat Trout | | Summer 98 | | | | |
|----------------------------------|-----------------|--------------|----------|-------------|---------|------|
| Tributary | Reach | Area (sq. m) | N±(SE) | #/100 sq. m | Total # | |
| Mainstem | 1 | 7422 | 0 | 0.0 | 0 | |
| | 2 | 9419 | 1(0.0) | 0.1 | 9 | |
| | 3 | 5588 | 10(0.0) | 1.3 | 73 | |
| | 4 | 16104 | 0 | 0.0 | 0 | |
| | 5 | 2318 | 0 | 0.0 | 0 | |
| | 8 | 5856 | 10(2.9) | 1.1 | 62 | |
| | 9 | 5648 | 6(0.0) | 1.1 | 62 | |
| | 10 | 25981 | 3(0.0) | 0.3 | 78 | |
| | 11 | 1399 | 1(0.0) | 0.3 | 4 | |
| | South East Fork | 13 | 6915 | 69(3.2) | 17.7 | 1224 |
| | West Fork | 14 | 3205 | 44(2.7) | 33.8 | 1083 |
| | Bull | 1 | 3685 | 14(2.2) | 18.8 | 693 |
| Coon | 1,2 | 2149 | 0 | 0.0 | 0 | |
| | School House | 1 | 2741 | 2(0.0) | 0.9 | 25 |
| | Whitetail | 1,2 | 5204 | 10 (0.8) | 6.7 | 349 |
| | Windfall | 2 | 5531 | 35(4.5) | 23.5 | 1300 |
| | Total | 108966 | 205(7.2) | | 4962 | |

| Alder Creek Cutthroat Trout | | Summer 98 | | | | |
|--------------------------------|--------------|--------------|----------|-------------|---------|---|
| Tributary | Reach | Area (sq. m) | N±(SE) | #/100 sq. m | Total # | |
| Mainstem | 1 | 7052 | 0 | 0.0 | 0 | |
| | 2 | 1825 | 0 | 0.0 | 0 | |
| | 3 | 9446 | 2(0.0) | 3.6 | 340 | |
| | 4 | 4158 | 6(0.0) | 2.2 | 91 | |
| | 5 | 5064 | 2(0.0) | 0.4 | 20 | |
| | 6 | 1823 | 2(0.0) | 0.7 | 13 | |
| | 7 | 16860 | 13(1.0) | 1.4 | 236 | |
| | 8 | 4916 | 5(0.0) | 1.4 | 69 | |
| | 9 | 12635 | 0 | 0.0 | 0 | |
| | N Fork Alder | 1 | 4475 | 0 | 0.0 | 0 |
| | 2 | 1403 | 0 | 0.0 | 0 | |
| | 3 | 2058 | 0 | 0.0 | 0 | |
| Total | | 74216 | 30 (1.0) | | 769 | |

Table 3.15 Brook trout abundance and distribution by watershed, 1998.

| Benewah Creek Brook Trout | | Summer 98 | | | |
|------------------------------|-------|--------------|---------|-------------|---------|
| Tributary | Reach | Area (sq. m) | N±(SE) | #/100 sq. m | Total # |
| Mainstem | 1 | 7422 | 0 | 0.0 | 0 |
| | 2 | 9419 | 0 | 0.0 | 0 |
| | 3 | 5588 | 0 | 0.0 | 0 |
| | 4 | 16104 | 0 | 0.0 | 0 |
| | 5 | 2318 | 0 | 0.0 | 0 |
| | 8 | 5656 | 0 | 0.0 | 0 |
| | 9 | 5648 | 0 | 0.0 | 0 |
| | 10 | 25981 | 4(3.5) | 0.4 | 104 |
| | 11 | 1399 | 4(0.0) | 1.2 | 17 |
| | 13 | 6915 | 11(1.4) | 2.8 | 194 |
| South East Fork | | | | | |
| West Fork | 14 | 3205 | 23(2.2) | 17.7 | 567 |
| Bull | 1 | 3685 | 0 | 0.0 | 0 |
| Coon | 1,2 | 2149 | 0 | 0.0 | 0 |
| School House | 1 | 2741 | 0 | 0.0 | 0 |
| Whitetail | 1,2 | 5204 | 0 | 0.0 | 0 |
| Windfall | 2 | 5531 | 2(0.0) | 1.3 | 72 |
| Total | | 108966 | 44(4.3) | | 954 |

| Alder Creek Brook Trout | | Summer 98 | | | |
|----------------------------|-----------|--------------|-----------|-------------|---------|
| Tributary | Reach | Area (sq. m) | N±(SE) | #/100 sq. m | Total # |
| Mainstem | 1 | 7052 | 0 | 0.0 | 0 |
| | 2 | 1825 | 0 | 0.0 | 0 |
| | 3 | 9446 | 2(0.0) | 3.6 | 340 |
| | 4 | 4158 | 4(3.5) | 2.2 | 91 |
| | 5 | 5064 | 16(0.6) | 3.2 | 162 |
| | 6 | 1823 | 9(13.4) | 3.2 | 58 |
| | 7 | 16880 | 64(12.8) | 7.0 | 1180 |
| | 8 | 4916 | 60(5.3) | 17.0 | 836 |
| | 9 | 12635 | 26(3.0) | 7.4 | 935 |
| | N.F.Alder | | | | |
| N.F.Alder | 1 | 4475 | 30(2.9) | 8.5 | 380 |
| | 2 | 1403 | 16(3.0) | 1.9 | 27 |
| | 3 | 2098 | 14(0.6) | 3.1 | 64 |
| | 4 | 2503 | 14(2.2) | 18.8 | 471 |
| Total | | 74216 | 255(20.4) | | 4544 |

Table 3.16 Age frequency distribution of cutthroat trout in electrofishing samples by watershed, 1998.

| Count by Age Class | Age Class | | | | | | |
|--------------------|-----------------|----|----|----|----|---|---|
| | Cutthroat Trout | | | | | | |
| Watershed | 0 | 1 | 2 | 3 | 4 | 5 | 6 |
| Alder | 2 | 1 | 17 | 7 | 5 | | |
| Benewah | 8 | 35 | 91 | 16 | 5 | 3 | |
| Evans | 5 | 28 | 45 | 31 | 16 | 3 | |
| Lake | 88 | 18 | 22 | 22 | 15 | 7 | 3 |

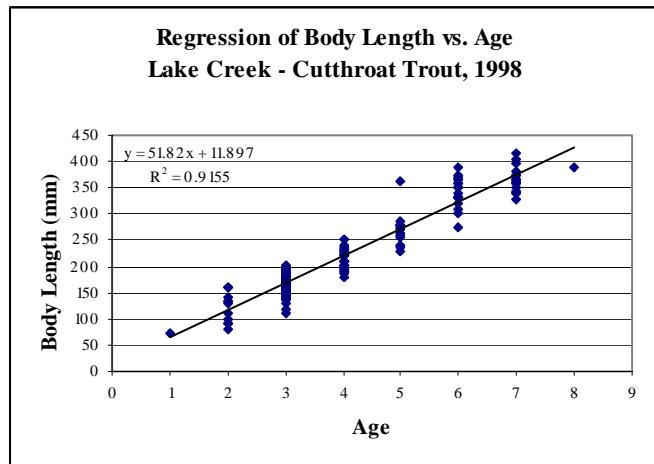
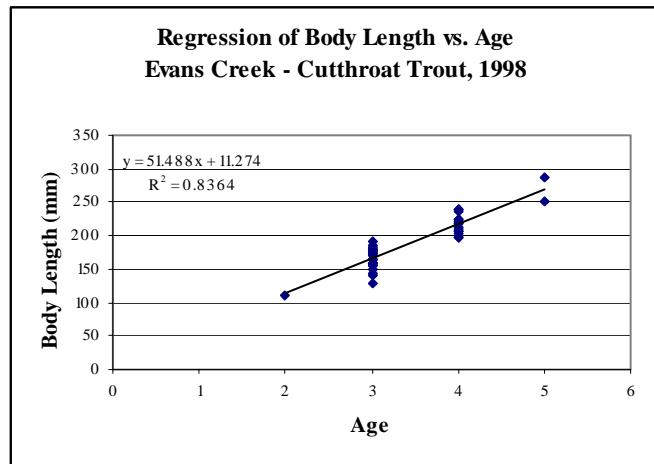
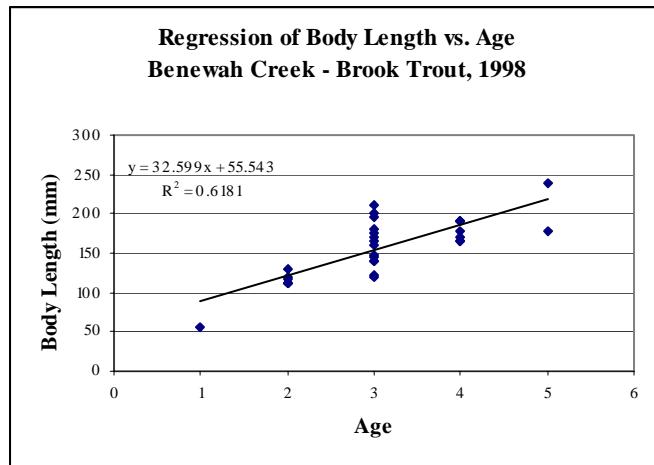
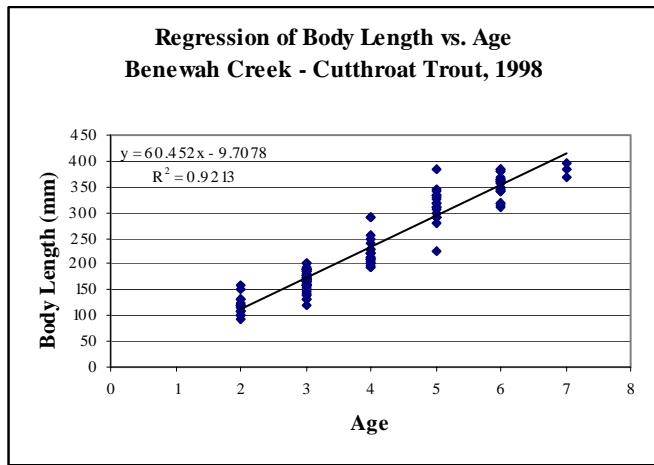
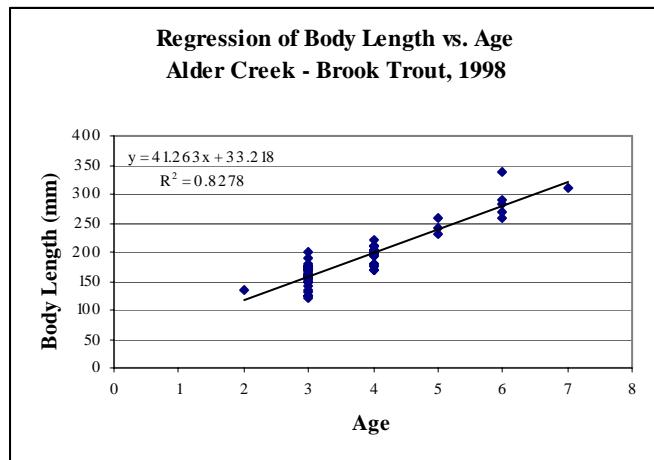
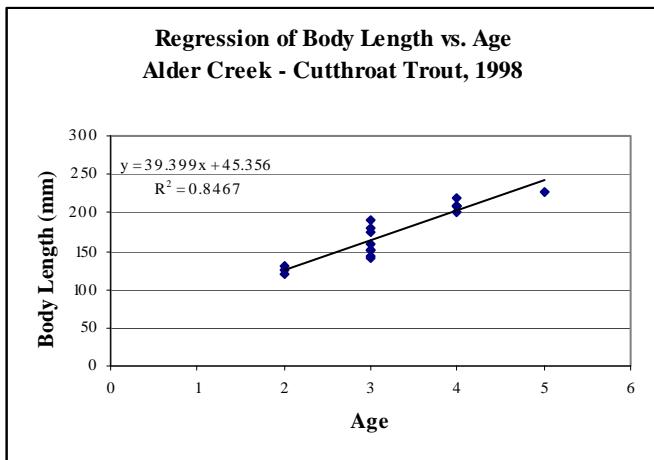


Figure 3.10 Regression equations of body length versus age for cutthroat and brook trout in four target watersheds, 1998.

Trout Migration

A total of 1277 cutthroat trout were caught in the lower Lake Creek trap in 1998 at a rate of 13.6 fish/day (Figure 3.10). Adult fish (age IV or older) accounted for 11.5% of the catch. Trapping success in Benewah Creek was considerably lower than in Lake Creek. A total of 535 cutthroat trout were caught in 1998 at a rate of 5.9 fish/day. Adult fish (age IV or older) accounted for 24.1% of the catch. Trapping

efficiency for smolts was estimated to be high (>75%) at both trap locations, with the exception of a five day period at the end of May when the traps were covered with water and fish would have been able to swim around the weirs.

Upstream migration of adult fish into Benewah Creek and Lake Creek was documented for the period March 11 through April 24, 1998. Average daily water temperature during the documented period of upstream migration ranged from 3.1°C to 11.4°C (mean = 5.5°C) and 3.1°C to 9.9°C (mean = 5.1°C) in Benewah and Lake creeks, respectively. Residence time for adults in Benewah Creek ranged from 22 to 34 days (mean = 27 days), while residence time in Lake Creek averaged 44 days.

Outmigrant behavior, was observed predominantly in age II and III fish (Figures 3.11 and 3.12). These fish ranged in size from 9 to 54 grams and 120 to 162 mm long. More than 70 percent of these fish were greater than 18 grams and 125mm long. Migration by smaller fish was observed, however, mortality both from predation and physical damage likely increased with decreasing size and weight. Migration by smolts to Coeur d'Alene Lake began in mid-April, as water temperatures stabilized around 9°C, and was completed by early June. Peak migrations coincided with average daily water temperatures ranging from 9°C to 11°C and were often correlated with small spikes in the hydrograph.

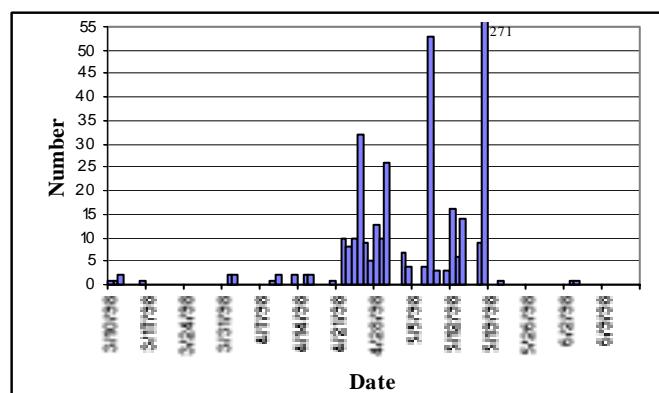


Figure 3.11 Analysis of cutthroat trout migration showing run timing and age frequency of migrants in Benewah Creek, 1998.

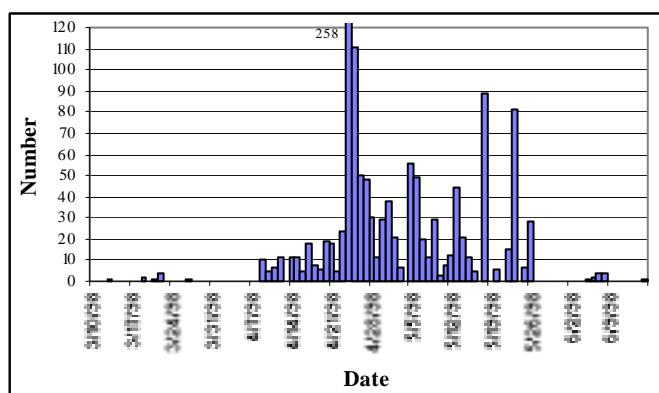


Figure 3.12 Analysis of cutthroat trout migration showing run timing and age frequency of migrants in Lake Creek, 1998.

4.0 Discussion

4.1 Lake Studies

Water Quality

Results from water quality sampling in 1998 did not differ much from results obtained in 1997. The main difference was in the number of sites with dissolved oxygen values below 6.0 mg/L. There were eight sites with values below 6.0 mg/L in 1998 and only four in 1997. A reason for the increase in the number of sites with dissolved oxygen readings below the optimum required for cutthroat trout survival was indirectly related to the weather. In 1998, from July to September there were 32 days with temperatures above 32.2° C (90° F), compared to only 10 days in 1997 (Personal communication with the National Weather Service). The more days with temperatures above 32.2° C (90° F) the warmer the water temperature will be. Upon comparing the water temperatures recorded in 1998 with the results from 1997 there was a noticeable difference. The thermoclines in both years seem to start around the end of May but it's the duration and depth at which the thermoclines occurred that was different. The thermoclines were much stronger and had a longer duration in 1998 compared to 1997. The surface temperatures also reached their peak at the end of July in 1998 compared to mid August in 1997. Due to the warmer air and water temperatures, and increased light penetration aquatic macrophyte growth most likely increased. Even though no direct measurements were taken. This in turn, led to more dead and decomposing material that sank and accumulated in the hypolimnion. Respiration and decomposition can easily deplete dissolved oxygen in the hypolimnion. Woods and Beckwith (1996) reported seeing low dissolved oxygen values in Coeur d'Alene Lake during the summer months of 1991 and 1992.

The low dissolved oxygen values that are seen in the hypolimnion is cause for concern when related to available fisheries habitat. The low dissolved oxygen values recorded in 1998 are not considered completely limiting for cutthroat trout suitability. The low dissolved oxygen values recorded, however, are thought to have indirect affects on cutthroat trout suitability in the southern lakes area (Peters et al. 1999). Peters et al. (1999) examined the habitat suitability and determined the lower 10 m in most areas is unsuitable habitat for cutthroat trout due to low dissolved oxygen values. This is not to say that cutthroat trout will not be found in these areas, but they most likely will have a hard time sustaining themselves for long periods of time.

Another more serious problem associated with decreases in dissolved oxygen values is the high concentration of metals that are bound up in the sediment north of the Coeur d'Alene River. Sediments to the south of the Coeur d'Alene River are relatively unaffected by heavy metal deposition from the Coeur d'Alene River. The deposition of trace elements in the sediments of Coeur d'Alene Lake is well documented by (Funk 1973; Rieman 1980; Woods 1989; Woods and Beckwith 1996). Lakebed geochemistry analyses revealed that most of the trace elements in surficial and subsurface sediments are associated with a ferric oxide phase and, thus, under reducing (anoxic) conditions, the trace elements would be readily solubilized and available for release to the overlying water column (Woods and Beckwith, 1996). The fact that trace metals are found in the sediments at the mouth of the river and north causes us to be concerned when sites like Windy Bay Deep and Mid-Lake Coeur d'Alene have dissolved oxygen values below 6.0 mg/L.

One hypothesis for the low dissolved oxygen values recorded is the presence of zinc in the water, which strongly inhibits phytoplankton growth. As phytoplankton drifts northward towards the mouth of the Coeur d'Alene River, it is thought to produce a sestonic "rain" of dead and dying phytoplankton that settles into the hypolimnion of the lake's northern basin and produces the hypolimnetic dissolved-oxygen deficit when the lake is thermally stratified (Woods and Beckwith, 1996). Monitoring dissolved oxygen levels in the hypolimnion is and will continue to be a high priority so that heavy metal contamination of the over lying water column will not occur.

Sediment transport to the lake from the tributaries continues to be a problem. The build up of these sediments at the mouths of all incoming tributaries to Coeur d'Alene Lake results in the loss of existing wetlands and provides prime habitat for predators of cutthroat trout. The increase in sediment also gives aquatic macrophytes more room to establish themselves along with providing more suitable forage habitat for non-native species. Sediment accumulation near the mouth of Plummer Creek, in Chatcolet Lake, has occurred at an average rate of 2.4 cm per year since the Mt. St. Helen's eruption of May 18, 1980 (Breithaupt, 1990). To examine the amount of sediment that has entered the Coeur d'Alene system aerial photos from 1933 and 1995 were compared. It was noted that the size of the deltas on four main tributaries that feed into Coeur d'Alene Lake are all increasing in size. Another interesting point to be made relates to the change in vegetation over the years. In 1933, the tributaries at their mouths had well defined channels that were lined with cottonwoods. Now the mouths of the tributaries and bays are largely overrun with submerged and emergent aquatic macrophytes.

Fisheries

In 1998, we hypothesized that there could be a significant difference in relative abundance results if we increased the sampling effort. Twenty-two more hours were spent electroshocking and two hundred and ninety-one more hours were spent gillnetting in 1998 than in 1997. We sampled approximately 7,800 fish in 1998 and 5,200 in 1997. The 1998 data reiterated the findings from 1994-1996 (Peters et. al. 1999) and 1997. Thus, we saw no significant difference in relative abundance by increasing our sampling effort. Species composition remained the same even though more fish were sampled.

Four out of the top six sampled species are non-native species. Northern pikeminnow and largescale suckers are the only native fish sampled in the top six. Northern pikeminnow make up 8-9% of the electroshocking catch and 18-20% of the gillnet catch. Largescale suckers make up 24-28% of the electroshocking catch and 9-21% of the gillnet catch. Cutthroat trout and mountain whitefish make up less than 1% of the catch when electroshocking and about 1.4% of the gillnet catch. When Post Falls Dam went on line in 1903 it inundated over 10 square kilometers of shoreline. This created prime habitat for exotic and non-salmonid native fish species.

Since 1994 the Coeur d'Alene Tribe Fish, Water and Wildlife program has conducted an extensive mark-recapture study (Peters et al. 1999). To date 636 fish have been tagged, there have been 23 recaptures between the Fish, Water and Wildlife program and anglers and anglers have harvested 15 fish. Eleven out of the 21 species have been tagged. The mark-recapture study relies heavily on the effectiveness of our sample gear and on angler's participation. We realize these results are biased because not all anglers report their catch, tags can be removed by anglers and they can fall out. During the 1997 and 1998 field season all game fish that were 300 mm and 300 g received a floy tag. Through the mark-recapture study we are finding that northern pike have a tendency to migrate from the original sampling site and largemouth bass are very territorial rarely moving from the site where they were tagged. It appears that both northern pike and largemouth tend to occupy shoreline habitat areas.

In general, northern pike are fairly sedentary, establishing a vague territory where cover and food are adequate (Scott and Crossman, 1973). Normally, this would be true because northern pike found on the northern end of Coeur d'Alene Lake tend not to migrate (Personal communication with Ned Horner IDF&G). However, northern pike in the southern 1/3 of Coeur d'Alene Lake appear to migrate over larger distances than would be normally expected. For example, a northern pike was sampled in September of 1997 in Chatcolet Lake and was harvested in March of 1998 in waters off of Harlow Point. This fish traveled approximately eight miles up the lake. Another northern pike was sampled in October of 1998 in O'Gara Bay and was harvested in March of 1999 in Chatcolet Lake; this fish migrated approximately 2-3 miles in a southerly direction. The reason we might be seeing this movement is due to the size of the littoral zone in the southern 1/3 of Coeur d'Alene Lake relative to the rest of the lake. When Post Falls Dam was built it raised Coeur d'Alene Lake by 3.6 m. This affected the southern 1/3 of

Coeur d'Alene Lake by turning small isolated lakes into a continuous body of water with Coeur d'Alene Lake. Because the inundated area has an average depth of 3.6 m or less, this led to the growth of aquatic macrophytes and suitable habitat for introduced non-native species. Due to the shallowness and the warm water temperatures in the southern 1/3 and near by bays of Coeur d'Alene Lake, northern pike tend not to restrict themselves to a specific forage area.

Scott and Crossman (1973) state that largemouth bass movement is not extensive usually less than five miles and summer territories are small. The majority of the largemouth bass in the southern 1/3 of Coeur d'Alene Lake appear to migrate less than one mile. A largemouth bass was originally sampled using electroshocking equipment in October of 1994 in Shingle Bay. The Fish, Water and Wildlife program sampled the same largemouth bass again in August of 1996 and June of 1998 in Shingle Bay. An example where anglers have played an important role in our mark-recapture study is with a largemouth that was sampled by the Fish, Water and Wildlife program in August of 1996 in O'Gara Bay. The same bass was caught and released in September of 1996 by an angler and was recently harvested in June of 1999 in O'Gara Bay by another angler.

Out of the 21 species inhabiting Coeur d'Alene Lake seven species have been shown to actively feed on cutthroat trout. They are chinook salmon, northern pike, northern pikeminnow, largemouth and smallmouth bass, bull trout and channel catfish. Of the non-native predators smallmouth bass are the newest addition. Smallmouth were illegally introduced into the northern part of Coeur d'Alene Lake. Peters et al. (1999) showed that during 1994- 1996 smallmouth bass were not sampled by electroshocking or gillnetting methods. In 1997 two smallmouth bass were sampled in waters off of Harlow Point. Current data is showing a gradual increase in smallmouth bass numbers in the littoral zone from Windy Bay south to O'Gara Bay where seventeen smallmouth were sampled during the 1998 field season. Most likely these fish will be found throughout the Coeur d'Alene system in a few years.

Smallmouth bass actively feed on crayfish and small fish from the age of two and older (Simpson and Wallace 1982). This could prove detrimental to cutthroat trout since they will occupy some of the same habitat as the smallmouth bass upon entry into the lake. The introduction of smallmouth bass may also have an effect on the existing largemouth bass population to what extent we do not know. This will be monitored in the future. Scott and Crossman (1973) state that the habitats of the smallmouth and largemouth bass seldom overlap even though the two species often occur in the same lake. Smallmouth prefer colder water than largemouth and they prefer rocky and sandy areas to the largemouth's vegetation habitat. Prior to the introduction of smallmouth into Coeur d'Alene Lake largemouth bass occupied some of the habitat currently occupied by smallmouth bass. This expansion of the smallmouth bass population could reduce the abundance of largemouth bass in certain parts of its former range within Coeur d'Alene Lake. The program will continue to monitor this in the future.

Kokanee salmon are not considered a predator on cutthroat trout but they may compete with the cutthroat for habitat and, on occasion, food. Kokanee in Coeur d'Alene Lake inhabit the middle to bottom layers of the limnetic zone, with the majority being sampled in the middle of the water column. Kokanee usually inhabit the upper and middle layers of the open lake (Scott and Crossman, 1973). According to our data cutthroat trout inhabit the bottom and middle layers of Coeur d'Alene Lake, thus it appears that these two species habitats overlap. Kokanee are mainly a pelagic, plankton feeder but it may derive a significant portion of its food from bottom organisms (Scott and Crossman, 1973). Cutthroat trout tend to be opportunistic in their food habits and are not highly piscivorous; instead they tend to specialize as invertebrate feeders (Roscoe 1974; Behnke 1979) thus, it is unlikely that they compete for food. However, Marnell (1988) determined that declines in westslope cutthroat trout populations in lakes in Glacier National Park where kokanee were introduced were caused by competition for planktivorous food. Unlike Marnell who showed that cutthroat trout numbers declined in the presence of kokanee salmon, in Coeur d'Alene Lake cutthroat trout and kokanee salmon are co-existing. The productivity of

the low elevation lakes compared to the non-productive high mountain lakes is a possible reason for co-existence. The low elevation lakes provide greater abundance and more diverse food than the high mountain lakes.

The majority of cutthroat trout are sampled at night as they come inshore to feed. A possible reason for sampling more cutthroat trout at night is that the water temperature cools enough to allow them to come to the surface to forage for food. The age structure of the cutthroat trout we sample in the littoral zone range from 2-6 and the age structure of the cutthroat trout in the limnetic zone are 3-5. Our age data is slightly biased towards older fish. Age 0 & 1 fish from all species is lacking representation in our sampling efforts. Juvenile cutthroat trout rear in local tributaries for two years so it is not surprising that they are, absent from our lacustrine sampling efforts. In order to examine this hypothesis we are initiating a beach seine sampling project around the lake in order to try and capture fish not susceptible to our electrofishing or gillnet capture methods.

4.2 Stream Studies

Spawning Habitat

Other studies have documented low-order tributaries as important spawning habitat for cutthroat trout (Rieman and Apperson 1989, Magee et al. 1996). Previous work on the Coeur d'Alene Reservation suggests that this holds true for our target tributaries as well (Peters et al 1999). In a 1997 study, adfluvial cutthroat trout were fitted with radio tags and tracked to spawning areas located in 2nd order tributaries within the Benewah Creek watershed. Spawning activity has been observed in the West Fork, a 2nd order tributary of Benewah Creek, for the past 4 years. Additionally, young of the year cutthroat are most often found in association with 2nd order tributaries in all target watersheds. The close associations between redd distribution and density of juvenile and sub-adult cutthroat trout has been reported by other investigators (Beard and Carline 1991). Therefore, we feel that the effort to map the abundance and distribution of gravels within 2nd order tributaries should provide a good index of spawning potential for the respective watersheds.

The mapped distribution of potentially suitable spawning substrate within the spawning reaches of four target tributaries on the Coeur d'Alene Reservation was patchy and did not vary considerably within reaches or between watersheds (Figure 3.12). Furthermore, the quantity of spawning gravel was low, averaging just 4.1% of measured stream area. These results lie in contrast with those of Magee (1996), who reported a wide variance in proportion of spawning gravel for a Montana stream basin, even among nearby reaches, and documented much higher proportions of suitable spawning substrate (up to 25%). The lack of a strong association between spawning gravel abundance and several reach characteristics (gradient, proportion of gravel and pea gravel) in this study, however, corroborates the findings of Magee (1996), who suggested that local hydrologic features influenced spawning gravel availability. Although the distribution of spawning substrate was patchy within the target watersheds, there is probably adequate habitat to support resident and adfluvial spawners because of currently depressed numbers.

Abundance of potential spawning gravels has been reported as a key factor influencing redd density for westslope cutthroat trout at the reach scale (Magee et al. 1996). Similar relations between redd density and availability of spawning gravel was noted by Cope (1957) for Yellowstone cutthroat trout and by Beard and Carline (1991) for brown trout. Other important factors in determining redd density probably include temperature and fish density. Current population estimates for the target tributaries indicate wide variation in the abundance of juvenile fish (Figure 3.14), even though water temperatures and availability of spawning gravels are similar. Although redd densities were not estimated as part of this study, it is thought that fish density overrides other variables in determining redd density across the entire basin. Given the observed abundance and distribution of suitable spawning gravels in the target watersheds, redd superimposition could occur at relatively low population densities. This could have profound

implications on projections for juvenile recruitment if the number of spawning adults increases over time, either as a result of improved juvenile to adult survival or initiation of a supplementation program. In any case, it would be prudent to monitor spawning activity to look for evidence of superimposition.

Is fine sediment limiting recruitment?

Spawning gravels in target tributaries of the Reservation contained proportions of fine sediments comparable to those in egg pockets of salmonid redds in the Rocky Mountain region (Table 4.1). Sites in the upper reaches of Alder, Benewah and Evans Creeks contained low proportions of fines that were reflective of stable habitats and low impact landuses. The erosive geology of the Lake Creek watershed, on the other hand, results in substrate conditions similar to those reported by Magee et al. (1996) in Montana. The proportion of small fines (<0.85 mm) averaged two to 20 times higher than in spawning gravels elsewhere on the Reservation.

Table 4.1 Mean proportion of fines smaller than 6.35 mm and 0.85 mm and the mean fredle index (F_i) of egg pockets in salmonid redds from the Rocky Mountain region, USA.

| Target species | Location | Time of sampling | Percent fines | | | | Reference |
|----------------|---------------|------------------|---------------|---------|-------|----|--|
| | | | Smaller than: | | F_i | N | |
| | | | 6.35 mm | 0.85 mm | | | |
| Cutthroat | Alder Creek | Post emergence | 13.6 | 1.0 | 7.8 | 5 | This study* |
| Cutthroat | Benewah Creek | Post emergence | 18.9 | 3.7 | 7.1 | 9 | This study* |
| Cutthroat | Evans Creek | Post emergence | 13.5 | 0.5 | 8.8 | 8 | This study* |
| Cutthroat | Lake Creek | Post emergence | 39.0 | 10.1 | 4.5 | 7 | This study* |
| Cutthroat | Idaho | Near emergence | 24.4 | 6.5 | 7.6 | 13 | R. Thurow and J. King unpublished data |
| Cutthroat | Montana | Near emergence | 41.6 | 17.9 | 2.0 | 11 | Magee et al. (1996) |
| Cutthroat | Montana | Near emergence | 27.4 | 5.9 | | 13 | Weaver and Fraley (1993) |
| Steelhead | Idaho | Near emergence | 15.4 | 3.7 | 10.5 | 9 | R. Thurow and J. King unpublished data |
| Brook | Wyoming | Near spawning | 12.1 | 6.4 | | 31 | Young et al. (1989) |
| Brook | Wyoming | Near spawning | 15.0 | 3.0 | | 69 | Grost et al. (1991) |

*Means calculated from suitable spawning gravels rather than egg pockets for this study.

Several factors may account for reported differences in gravel characteristics, including sampling method, geology, and sediment transport. Other investigators have sampled egg pockets, noting significantly lower concentrations of fines in the upper strata when compared with nearby gravels (Chapman 1988, Young et al. 1989). Because we were unable to identify actual redds to sample, our results are most likely representative of unaltered spawning substrate or unstratified redd samples, as described by Young et al. (1989). The timing of sampling effort also may have resulted in some particle size differences. We sampled spawning gravels as late as four weeks after emergence, whereas some authors sampled egg pockets near spawning or at the time of emergence. Streams on the Reservation, however, carry little sediment during the incubation period for embryos because flows (and hence sediment transport) rapidly decline during spring and early summer.

At 23 of 29 sample sites, low levels of fine sediment led to high predictions of overall embryo survival (mean = 41.8%). The estimates of fry production potential for all sample sites ranged widely (0 to 5224 fry/100 square meters) due, primarily, to the quantity of suitable gravels present (Table 3.13). Our estimates of emergence success were made by using proportions of fine sediment less than 6.35 mm in diameter, based on the experiments of Weaver and Fraley (1993) with artificial egg pockets planted in stream substrate. Actual emergence success may be lower in tributaries of Lake Creek and portions of South East Benewah Creek, where high proportions of small fines (<0.85 mm) were measured. Small fines are more detrimental to survival of incubating eggs and intrude deeper into spawning gravels than coarser fines (Reiser and White 1988, Beschta and Jackson 1979). Only in the mainstem of Lake Creek

were the proportions of both small and coarse fines considered above the levels for these particle sizes (10% and 30%, respectively) shown to adversely affect salmonid emergence success (McNeil and Ahnell 1964, Shepard et al. 1984a, Cederhom and Reid 1987, Reiser and White 1988).

Previous studies have demonstrated that reduced emergence success from high sedimentation can result in low juvenile densities and low adult recruitment (Cederholm and Reid 1987, Scrivener and Brownlee 1989). Of the 6 sites where high levels of small or coarse fines were recorded, only the sites located in the mainstem of Lake Creek showed supporting evidence for low recruitment. The other sites had juvenile and adults densities (range = 12.4 – 33.8/100 square meters) that were notably higher than the average density (9.2/100 square meters) reported for seven other westslope cutthroat trout populations in Idaho and Montana (Shepard et al. 1984b, Ireland 1993). Several factors may buffer the effects of high sedimentation of redds. High fry mortality is common in resident salmonids, but low fry densities may result in decreased competition, increased growth, and compensatory survival (McFadden 1969). Three additional spawning tributaries (School House Creek, Whitetail Creek, and Rainbow Fork Evans Creek) showed evidence of low recruitment; however this is probably attributable to low numbers of spawning adults, low quantity of suitable gravels, or poor water quality conditions, rather than sedimentation of redds.

Population Trends

Due to the persistence of adverse water quality and habitat conditions in Reservation streams, cutthroat trout populations are thought to be at least moderately damaged (i.e. average spawning escapements fall between the minimum viable population and the number of adults needed to produce 50% of the carrying capacity of the stream environment). Reiman and Apperson (1989) estimated that populations considered as “strong” (greater than or equal to 50% of historic potential) by Idaho Department of Fish and Game (IDFG) remained in only 11% of the historic range within the State of Idaho. In contrast, none of the populations on the Coeur d’Alene Indian Reservation are considered “strong”.

Mean annual population estimates from 1996-1998 rank Benewah Creek, Lake Creek, Evans Creek, and then Alder Creek in order of decreasing population strength (Table 4.2). In Benewah Creek, four tributaries, comprising 32% of the usable stream area in the watershed, have cutthroat trout densities that are notably higher than the average density (9.2/100 square meters) reported for seven other westslope cutthroat trout populations in Idaho and Montana (Shepard et al. 1984b, Ireland 1993). In Lake Creek, 41% of the perennial stream area supports higher than average densities, while 26% of the stream area in Evans Creek supports higher than average densities. All reaches in the Alder Creek drainage have significantly lower than average densities.

The probability of persistence, as shown in table 4.2, was calculated based on methods described by Reiman and McIntyre (1993), but should be used only as an index of population resiliency. When used in this manner, probability of persistence improves as population size increases or when the inter-annual variance in population size decreases. Populations in Lake Creek and Benewah Creek demonstrate the most resiliency of our target stocks, because of both higher numbers of individuals and relatively low variances.

Despite the apparent instability of cutthroat trout populations, preliminary genetic analyses show that relatively pure stocks exist in Reservation waters. A study by Spruell et al. (1999) differentiated westslope cutthroat trout, rainbow trout and their hybrids at 16 sample sites. Six sites contained samples of westslope cutthroat trout with no evidence of hybridization. The remaining ten sites included at least one hybrid individual. When present, hybridization occurs at a low level and most likely represents episodic events of migration into these systems by rainbow trout or hybrid individuals. Thus, it appears that even though the populations are not “strong”, they are not threatened to a large extent with hybridization. These weakened populations may be particularly susceptible to normal environmental

variability (such as temperature and stream discharge patterns) and to the frequency of extreme events such as wildfires, floods, or debris torrents. However, the existing genetic diversity may continue to allow for genetic combinations that permit survival in highly variable environments. Implications are that if the effect of limiting factors can be reduced, then genetically pure populations would have a chance to recover.

Table 4.2. Mean annual population estimates, the estimated mean annual variance in the infinitesimal rate of population growth, and probabilities of persistence over 100 years for westslope cutthroat trout populations monitored on the Coeur d'Alene Reservation. The 95% confidence interval is shown in parentheses.

| Stream | Years | Mean Annual Population Estimate | Variance | Probability Of Persistence |
|---------------|-------|---------------------------------|------------------|----------------------------|
| Alder Creek | 3 | 808 | 0.03 (0.02-0.04) | 0.58 |
| Benewah Creek | 3 | 5,553 | 0.16 (0.04-0.36) | 0.67 |
| Evans Creek | 3 | 2,675 | 0.33 (0.05-0.71) | 0.45 |
| Lake Creek | 3 | 4,946 | 0.14 (0.02-0.26) | 0.70 |

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Appendix A

Vertical hydrolab profiles of thirteen stations on Coeur d'Alene Lake, 1997 and 1998.

Appendix A.1 Vertical hydrolab profiles for thirteen sampling station on Coeur d'Alene Lake, 1997.

| Location | Phase | Samplers | Date | Time | Secchi (m) | Sequence | Depth (m) | Dissolved Oxygen (mg/L) | Temperature (C) | pH | Conductivity (µs/cm) | TDS | Saturated Dissolved Oxygen | Stabilization Time | Redox |
|--------------|-------|----------|---------|------|------------|----------|-----------|-------------------------|-----------------|------|----------------------|------|----------------------------|--------------------|-------|
| Rockford Bay | 1597 | ASSS | 4/18/97 | - | 1.7 | 11 | 0.4 | 12.58 | 5.64 | 7.34 | 42.4 | 0.03 | ***** | - | 372 |
| Rockford Bay | 1597 | ASSS | 4/18/97 | - | 1.7 | 10 | 1.3 | 12.51 | 5.42 | 7.33 | 42.2 | 0.03 | 99 | - | 373 |
| Rockford Bay | 1597 | ASSS | 4/18/97 | - | 1.7 | 9 | 2.6 | 12.54 | 5.24 | 7.34 | 41.9 | 0.03 | 98.8 | - | 372 |
| Rockford Bay | 1597 | ASSS | 4/18/97 | - | 1.7 | 8 | 4 | 12.48 | 4.98 | 7.32 | 41.6 | 0.03 | 97.6 | - | 373 |
| Rockford Bay | 1597 | ASSS | 4/18/97 | - | 1.7 | 7 | 5.4 | 12.5 | 4.94 | 7.31 | 41.8 | 0.03 | 97.7 | - | 373 |
| Rockford Bay | 1597 | ASSS | 4/18/97 | - | 1.7 | 6 | 6.7 | 12.47 | 4.87 | 7.31 | 42.5 | 0.03 | 97.3 | - | 372 |
| Rockford Bay | 1597 | ASSS | 4/18/97 | - | 1.7 | 5 | 7.8 | 12.47 | 4.81 | 7.31 | 42.7 | 0.03 | 97.2 | - | 372 |
| Rockford Bay | 1597 | ASSS | 4/18/97 | - | 1.7 | 4 | 9 | 12.48 | 4.74 | 7.3 | 43.2 | 0.03 | 97 | - | 372 |
| Rockford Bay | 1597 | ASSS | 4/18/97 | - | 1.7 | 3 | 10.3 | 12.47 | 4.69 | 7.29 | 43.2 | 0.03 | 96.9 | - | 372 |
| Rockford Bay | 1597 | ASSS | 4/18/97 | - | 1.7 | 2 | 11.8 | 12.79 | 4.65 | 7.29 | 43.4 | 0.03 | 99.2 | - | 370 |
| Rockford Bay | 1597 | ASSS | 4/18/97 | - | 1.7 | 1 | 13 | 12.19 | 4.61 | 7.28 | 43.2 | 0.03 | 94.4 | - | 369 |
| Rockford Bay | 1997 | DBSS | 5/16/97 | - | 1.3 | 11 | 0.2 | 11.36 | 13.57 | 7.09 | 36.1 | 0.02 | 108.4 | - | 409 |
| Rockford Bay | 1997 | DBSS | 5/16/97 | - | 1.3 | 10 | 2 | 11.31 | 10.51 | 7.09 | 34.2 | 0.02 | 100.6 | - | 412 |
| Rockford Bay | 1997 | DBSS | 5/16/97 | - | 1.3 | 9 | 3.4 | 11.39 | 10.46 | 7.08 | 34.7 | 0.02 | 101.3 | - | 412 |
| Rockford Bay | 1997 | DBSS | 5/16/97 | - | 1.3 | 8 | 5 | 11.54 | 10.41 | 7.06 | 37.4 | 0.02 | 102.4 | - | 413 |
| Rockford Bay | 1997 | DBSS | 5/16/97 | - | 1.3 | 7 | 6.5 | 11.53 | 10.22 | 7.05 | 37.5 | 0.02 | 101.9 | - | 413 |
| Rockford Bay | 1997 | DBSS | 5/16/97 | - | 1.3 | 6 | 8 | 11.53 | 10 | 7.05 | 38 | 0.02 | 101.3 | - | 414 |
| Rockford Bay | 1997 | DBSS | 5/16/97 | - | 1.3 | 5 | 9.5 | 11.49 | 9.74 | 7.05 | 37.6 | 0.02 | 100.3 | - | 413 |
| Rockford Bay | 1997 | DBSS | 5/16/97 | - | 1.3 | 4 | 11 | 11.43 | 9.55 | 7.04 | 37.6 | 0.02 | 99.4 | - | 413 |
| Rockford Bay | 1997 | DBSS | 5/16/97 | - | 1.3 | 3 | 12.5 | 11.37 | 9.32 | 7.02 | 38.2 | 0.02 | 98.3 | - | 414 |
| Rockford Bay | 1997 | DBSS | 5/16/97 | - | 1.3 | 2 | 14 | 11.27 | 8.83 | 7.01 | 38.7 | 0.02 | 96.3 | - | 414 |
| Rockford Bay | 1997 | DBSS | 5/16/97 | - | 1.3 | 1 | 15.4 | 11.21 | 7.66 | 7.01 | 39.9 | 0.03 | 93.1 | - | 414 |
| Rockford Bay | 2197 | DBSS | 5/29/97 | - | 1.3 | 15 | 0.6 | 10.57 | 16.8 | 6.91 | 32.1 | 0.02 | 108.4 | - | 387 |
| Rockford Bay | 2197 | DBSS | 5/29/97 | - | 1.3 | 14 | 1.6 | 10.6 | 16.43 | 6.88 | 32 | 0.02 | 107.9 | - | 388 |
| Rockford Bay | 2197 | DBSS | 5/29/97 | - | 1.3 | 13 | 2.5 | 10.42 | 12.02 | 6.82 | 32.5 | 0.02 | 96.2 | - | 393 |
| Rockford Bay | 2197 | DBSS | 5/29/97 | - | 1.3 | 12 | 3.5 | 10.75 | 11.31 | 6.76 | 31 | 0.02 | 97.7 | - | 395 |
| Rockford Bay | 2197 | DBSS | 5/29/97 | - | 1.3 | 11 | 4.6 | 10.54 | 10.92 | 6.73 | 30.8 | 0.02 | 94.8 | - | 396 |
| Rockford Bay | 2197 | DBSS | 5/29/97 | - | 1.3 | 10 | 5.5 | 10.49 | 10.36 | 6.72 | 30.4 | 0.02 | 93.2 | - | 396 |
| Rockford Bay | 2197 | DBSS | 5/29/97 | - | 1.3 | 9 | 6.6 | 10.49 | 10.18 | 6.7 | 30.4 | 0.02 | 92.8 | - | 397 |
| Rockford Bay | 2197 | DBSS | 5/29/97 | - | 1.3 | 8 | 7.6 | 10.62 | 9.96 | 6.69 | 29 | 0.02 | 93.4 | - | 397 |
| Rockford Bay | 2197 | DBSS | 5/29/97 | - | 1.3 | 7 | 8.7 | 10.61 | 9.82 | 6.66 | 30.2 | 0.02 | 93.1 | - | 397 |
| Rockford Bay | 2197 | DBSS | 5/29/97 | - | 1.3 | 6 | 9.7 | 10.63 | 9.71 | 6.64 | 30.2 | 0.02 | 93 | - | 398 |
| Rockford Bay | 2197 | DBSS | 5/29/97 | - | 1.3 | 5 | 10.6 | 10.62 | 9.69 | 6.62 | 30.4 | 0.02 | 92.8 | - | 398 |
| Rockford Bay | 2197 | DBSS | 5/29/97 | - | 1.3 | 4 | 11.6 | 10.51 | 9.64 | 6.6 | 31.3 | 0.02 | 91.9 | - | 400 |
| Rockford Bay | 2197 | DBSS | 5/29/97 | - | 1.3 | 3 | 12.6 | 10.51 | 9.36 | 6.57 | 32 | 0.02 | 91.1 | - | 401 |
| Rockford Bay | 2197 | DBSS | 5/29/97 | - | 1.3 | 2 | 13.6 | 10.5 | 9.12 | 6.53 | 32.8 | 0.02 | 90.5 | - | 401 |
| Rockford Bay | 2197 | DBSS | 5/29/97 | - | 1.3 | 1 | 14.8 | 10.53 | 8.63 | 6.48 | 34 | 0.02 | 89.7 | - | 404 |

| | | | | | | | | | | | | | | | | | | | | |
|--------------|------|------|---------|---|-----|----|------|-------|-------|------|------|------|-------|---|-----|--|--|--|--|--|
| | | | | | | | | | | | | | | | | | | | | |
| Rockford Bay | 2397 | DBAS | 6/11/97 | - | 1.8 | 14 | 0.6 | 10.87 | 14.41 | 7.14 | 34.4 | 0.02 | 106.3 | - | 414 | | | | | |
| Rockford Bay | 2397 | DBAS | 6/11/97 | - | 1.8 | 13 | 1.5 | 11.11 | 12.51 | 7.13 | 33.1 | 0.02 | 104.1 | - | 416 | | | | | |
| Rockford Bay | 2397 | DBAS | 6/11/97 | - | 1.8 | 12 | 2.5 | 11.13 | 12.08 | 7.13 | 32.4 | 0.02 | 103.1 | - | 416 | | | | | |
| Rockford Bay | 2397 | DBAS | 6/11/97 | - | 1.8 | 11 | 3.4 | 11.09 | 11.62 | 7.13 | 32 | 0.02 | 101.8 | - | 415 | | | | | |
| Rockford Bay | 2397 | DBAS | 6/11/97 | - | 1.8 | 10 | 4.6 | 10.9 | 10.8 | 7.13 | 30.9 | 0.02 | 98.1 | - | 416 | | | | | |
| Rockford Bay | 2397 | DBAS | 6/11/97 | - | 1.8 | 9 | 5.5 | 10.81 | 10.41 | 7.14 | 30 | 0.02 | 96.5 | - | 415 | | | | | |
| Rockford Bay | 2397 | DBAS | 6/11/97 | - | 1.8 | 8 | 6.4 | 10.72 | 10.33 | 7.14 | 29.6 | 0.02 | 95.5 | - | 415 | | | | | |
| Rockford Bay | 2397 | DBAS | 6/11/97 | - | 1.8 | 7 | 7.6 | 10.65 | 10.13 | 7.14 | 29.9 | 0.02 | 94.4 | - | 414 | | | | | |
| Rockford Bay | 2397 | DBAS | 6/11/97 | - | 1.8 | 6 | 8.5 | 10.69 | 10.08 | 7.15 | 30.1 | 0.02 | 94.6 | - | 414 | | | | | |
| Rockford Bay | 2397 | DBAS | 6/11/97 | - | 1.8 | 5 | 9.7 | 10.68 | 9.97 | 7.15 | 30.1 | 0.02 | 94.3 | - | 414 | | | | | |
| Rockford Bay | 2397 | DBAS | 6/11/97 | - | 1.8 | 4 | 10.6 | 10.66 | 9.92 | 7.16 | 30 | 0.02 | 94.1 | - | 414 | | | | | |
| Rockford Bay | 2397 | DBAS | 6/11/97 | - | 1.8 | 3 | 11.7 | 10.64 | 9.92 | 7.18 | 30 | 0.02 | 93.8 | - | 413 | | | | | |
| Rockford Bay | 2397 | DBAS | 6/11/97 | - | 1.8 | 2 | 12.6 | 10.63 | 9.76 | 7.19 | 30.5 | 0.02 | 93.4 | - | 412 | | | | | |
| Rockford Bay | 2397 | DBAS | 6/11/97 | - | 1.8 | 1 | 13.6 | 10.2 | 10.12 | 7.24 | 30.5 | 0.02 | 90.3 | - | 411 | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| Rockford Bay | 2597 | DBSS | 6/26/97 | - | 3.3 | 14 | 0.2 | 10.64 | 16.29 | 7.11 | 33.8 | 0.02 | 108.2 | - | 442 | | | | | |
| Rockford Bay | 2597 | DBSS | 6/26/97 | - | 3.3 | 13 | 0.9 | 10.66 | 16.23 | 7.1 | 33.9 | 0.02 | 108.3 | - | 443 | | | | | |
| Rockford Bay | 2597 | DBSS | 6/26/97 | - | 3.3 | 12 | 1.9 | 10.66 | 16.04 | 7.08 | 33.8 | 0.02 | 107.8 | - | 444 | | | | | |
| Rockford Bay | 2597 | DBSS | 6/26/97 | - | 3.3 | 11 | 2.9 | 10.63 | 15.71 | 7.07 | 33.6 | 0.02 | 106.7 | - | 444 | | | | | |
| Rockford Bay | 2597 | DBSS | 6/26/97 | - | 3.3 | 10 | 3.9 | 10.7 | 15.04 | 7.05 | 33.5 | 0.02 | 105.9 | - | 446 | | | | | |
| Rockford Bay | 2597 | DBSS | 6/26/97 | - | 3.3 | 9 | 4.9 | 10.78 | 14.13 | 7.02 | 33.1 | 0.02 | 104.6 | - | 447 | | | | | |
| Rockford Bay | 2597 | DBSS | 6/26/97 | - | 3.3 | 8 | 6 | 10.78 | 13.55 | 7 | 33.1 | 0.02 | 103.3 | - | 448 | | | | | |
| Rockford Bay | 2597 | DBSS | 6/26/97 | - | 3.3 | 7 | 7 | 10.77 | 13.29 | 7 | 32.9 | 0.02 | 102.6 | - | 448 | | | | | |
| Rockford Bay | 2597 | DBSS | 6/26/97 | - | 3.3 | 6 | 8 | 10.73 | 13.09 | 6.98 | 32.8 | 0.02 | 101.7 | - | 448 | | | | | |
| Rockford Bay | 2597 | DBSS | 6/26/97 | - | 3.3 | 5 | 8.9 | 10.78 | 12.96 | 6.96 | 32.8 | 0.02 | 101.9 | - | 448 | | | | | |
| Rockford Bay | 2597 | DBSS | 6/26/97 | - | 3.3 | 4 | 10 | 10.76 | 12.86 | 6.94 | 32.8 | 0.02 | 101.5 | - | 449 | | | | | |
| Rockford Bay | 2597 | DBSS | 6/26/97 | - | 3.3 | 3 | 11 | 10.69 | 12.77 | 6.91 | 32.8 | 0.02 | 100.7 | - | 450 | | | | | |
| Rockford Bay | 2597 | DBSS | 6/26/97 | - | 3.3 | 2 | 12 | 10.55 | 12.56 | 6.87 | 32.9 | 0.02 | 98.9 | - | 451 | | | | | |
| Rockford Bay | 2597 | DBSS | 6/26/97 | - | 3.3 | 1 | 12.9 | 9.92 | 11.23 | 6.81 | 34 | 0.02 | 90.1 | - | 454 | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| Rockford Bay | 2797 | DBSS | 7/9/97 | - | 4.5 | 14 | 0.4 | 10.09 | 17.81 | 7.28 | 36.2 | 0.02 | ***** | - | 381 | | | | | |
| Rockford Bay | 2797 | DBSS | 7/9/97 | - | 4.5 | 13 | 1.2 | 10.26 | 16.91 | 7.27 | 36.1 | 0.02 | ***** | - | 381 | | | | | |
| Rockford Bay | 2797 | DBSS | 7/9/97 | - | 4.5 | 12 | 2.2 | 10.33 | 16.58 | 7.21 | 36.2 | 0.02 | ***** | - | 382 | | | | | |
| Rockford Bay | 2797 | DBSS | 7/9/97 | - | 4.5 | 11 | 3.2 | 10.35 | 16.38 | 7.17 | 36.1 | 0.02 | ***** | - | 383 | | | | | |
| Rockford Bay | 2797 | DBSS | 7/9/97 | - | 4.5 | 10 | 4.2 | 10.37 | 15.79 | 7.15 | 36.1 | 0.02 | ***** | - | 383 | | | | | |
| Rockford Bay | 2797 | DBSS | 7/9/97 | - | 4.5 | 9 | 5.2 | 10.36 | 15.4 | 7.09 | 35.8 | 0.02 | ***** | - | 384 | | | | | |
| Rockford Bay | 2797 | DBSS | 7/9/97 | - | 4.5 | 8 | 6.2 | 10.3 | 14.94 | 7.05 | 35.7 | 0.02 | ***** | - | 385 | | | | | |
| Rockford Bay | 2797 | DBSS | 7/9/97 | - | 4.5 | 7 | 7.2 | 10.01 | 13.61 | 7.02 | 34.8 | 0.02 | 96.9 | - | 385 | | | | | |
| Rockford Bay | 2797 | DBSS | 7/9/97 | - | 4.5 | 6 | 8.2 | 9.88 | 13.17 | 7 | 34.9 | 0.02 | 94.7 | - | 385 | | | | | |
| Rockford Bay | 2797 | DBSS | 7/9/97 | - | 4.5 | 5 | 9.2 | 9.74 | 12.26 | 6.99 | 34.6 | 0.02 | 91.5 | - | 385 | | | | | |
| Rockford Bay | 2797 | DBSS | 7/9/97 | - | 4.5 | 4 | 10.2 | 9.68 | 11.16 | 7 | 35.2 | 0.02 | 88.6 | - | 384 | | | | | |
| Rockford Bay | 2797 | DBSS | 7/9/97 | - | 4.5 | 3 | 11.1 | 9.79 | 10.66 | 7.03 | 35.5 | 0.02 | 88.5 | - | 382 | | | | | |
| Rockford Bay | 2797 | DBSS | 7/9/97 | - | 4.5 | 2 | 12.3 | 9.81 | 10.31 | 7.04 | 35.9 | 0.02 | 88 | - | 380 | | | | | |

| | | | | | | | | | | | | | | | |
|--------------|------|------|---------|---|-----|----|------|-------|-------|------|------|------|-------|---|-----|
| Rockford Bay | 2797 | DBSS | 7/9/97 | - | 4.5 | 1 | 13.2 | 10 | 10.02 | 7.09 | 36.4 | 0.02 | 89.1 | - | 377 |
| | | | | | | | | | | | | | | | |
| Rockford Bay | 2997 | SSAS | 7/23/97 | - | 5 | 14 | 0.2 | 10.78 | 19.13 | 7.56 | 37.2 | 0.02 | 109.3 | - | 398 |
| Rockford Bay | 2997 | SSAS | 7/23/97 | - | 5 | 13 | 0.9 | 10.82 | 18.87 | 7.56 | 37.1 | 0.02 | 109.2 | - | 398 |
| Rockford Bay | 2997 | SSAS | 7/23/97 | - | 5 | 12 | 1.9 | 10.96 | 18.2 | 7.56 | 36.8 | 0.02 | 109.1 | - | 398 |
| Rockford Bay | 2997 | SSAS | 7/23/97 | - | 5 | 11 | 2.8 | 11.01 | 18.05 | 7.57 | 36.8 | 0.02 | 109.3 | - | 396 |
| Rockford Bay | 2997 | SSAS | 7/23/97 | - | 5 | 10 | 3.9 | 11.02 | 18.03 | 7.53 | 36.7 | 0.02 | 109.3 | - | 396 |
| Rockford Bay | 2997 | SSAS | 7/23/97 | - | 5 | 9 | 5 | 11 | 18.01 | 7.48 | 36.7 | 0.02 | 109.1 | - | 395 |
| Rockford Bay | 2997 | SSAS | 7/23/97 | - | 5 | 8 | 5.9 | 11.01 | 17.9 | 7.44 | 36.8 | 0.02 | 109 | - | 395 |
| Rockford Bay | 2997 | SSAS | 7/23/97 | - | 5 | 7 | 6.9 | 10.99 | 17.74 | 7.38 | 36.8 | 0.02 | 108.5 | - | 396 |
| Rockford Bay | 2997 | SSAS | 7/23/97 | - | 5 | 6 | 7.9 | 10.87 | 17.49 | 7.32 | 36.8 | 0.02 | 106.7 | - | 396 |
| Rockford Bay | 2997 | SSAS | 7/23/97 | - | 5 | 5 | 8.9 | 11 | 16.68 | 7.24 | 36.6 | 0.02 | 106.1 | - | 395 |
| Rockford Bay | 2997 | SSAS | 7/23/97 | - | 5 | 4 | 9.9 | 10.77 | 16.38 | 7.16 | 36.5 | 0.02 | 103.2 | - | 396 |
| Rockford Bay | 2997 | SSAS | 7/23/97 | - | 5 | 3 | 10.9 | 10.68 | 15.74 | 7.08 | 36.3 | 0.02 | 101 | - | 394 |
| Rockford Bay | 2997 | SSAS | 7/23/97 | - | 5 | 2 | 11.9 | 10.59 | 15.24 | 7 | 36.2 | 0.02 | 99.1 | - | 389 |
| Rockford Bay | 2997 | SSAS | 7/23/97 | - | 5 | 1 | 12.9 | 10.21 | 14.03 | 6.91 | 35.8 | 0.02 | 93 | - | 385 |
| | | | | | | | | | | | | | | | |
| Rockford Bay | 3197 | DBSS | 8/5/97 | - | 7.7 | 14 | 0.5 | 9.03 | 23.66 | 7.42 | 41.2 | 0.03 | 105.1 | - | 365 |
| Rockford Bay | 3197 | DBSS | 8/5/97 | - | 7.7 | 13 | 1.1 | 9.11 | 23.37 | 7.42 | 41 | 0.03 | 105.5 | - | 365 |
| Rockford Bay | 3197 | DBSS | 8/5/97 | - | 7.7 | 12 | 2.1 | 9.24 | 23.08 | 7.39 | 40.8 | 0.03 | 106.5 | - | 365 |
| Rockford Bay | 3197 | DBSS | 8/5/97 | - | 7.7 | 11 | 3.1 | 9.29 | 22.99 | 7.36 | 40.6 | 0.03 | 106.5 | - | 365 |
| Rockford Bay | 3197 | DBSS | 8/5/97 | - | 7.7 | 10 | 4.1 | 9.3 | 22.86 | 7.34 | 40.4 | 0.03 | 106.7 | - | 365 |
| Rockford Bay | 3197 | DBSS | 8/5/97 | - | 7.7 | 9 | 5.1 | 9.34 | 22.66 | 7.29 | 40.3 | 0.03 | 106.8 | - | 365 |
| Rockford Bay | 3197 | DBSS | 8/5/97 | - | 7.7 | 8 | 6.1 | 9.53 | 21.58 | 7.27 | 39.4 | 0.03 | 106.7 | - | 365 |
| Rockford Bay | 3197 | DBSS | 8/5/97 | - | 7.7 | 7 | 7.1 | 9.52 | 21.44 | 7.14 | 39.5 | 0.03 | 106.3 | - | 369 |
| Rockford Bay | 3197 | DBSS | 8/5/97 | - | 7.7 | 6 | 8.1 | 9.85 | 19.73 | 7.05 | 37.9 | 0.02 | 106.4 | - | 372 |
| Rockford Bay | 3197 | DBSS | 8/5/97 | - | 7.7 | 5 | 9.1 | 9.99 | 15.56 | 6.85 | 34.6 | 0.02 | 99 | - | 379 |
| Rockford Bay | 3197 | DBSS | 8/5/97 | - | 7.7 | 4 | 10.1 | 9.29 | 12.25 | 6.69 | 34 | 0.02 | 85.5 | - | 382 |
| Rockford Bay | 3197 | DBSS | 8/5/97 | - | 7.7 | 3 | 11.1 | 9.15 | 10.74 | 6.63 | 34.4 | 0.02 | 81.3 | - | 383 |
| Rockford Bay | 3197 | DBSS | 8/5/97 | - | 7.7 | 2 | 12.1 | 9.18 | 10.3 | 6.61 | 34.8 | 0.02 | 80.8 | - | 381 |
| Rockford Bay | 3197 | DBSS | 8/5/97 | - | 7.7 | 1 | 13.1 | 9.08 | 10.02 | 6.57 | 35.4 | 0.02 | 79.4 | - | 385 |
| | | | | | | | | | | | | | | | |
| Rockford Bay | 3297 | DBSS | 8/14/97 | - | 8 | 14 | 0.3 | 8.54 | 22.49 | 7.43 | 42.7 | 0.03 | 97.9 | - | 378 |
| Rockford Bay | 3297 | DBSS | 8/14/97 | - | 8 | 13 | 1.7 | 8.55 | 22.45 | 7.37 | 42.7 | 0.03 | 97.9 | - | 379 |
| Rockford Bay | 3297 | DBSS | 8/14/97 | - | 8 | 12 | 2.7 | 8.65 | 22.25 | 7.35 | 41.9 | 0.03 | 98.8 | - | 380 |
| Rockford Bay | 3297 | DBSS | 8/14/97 | - | 8 | 11 | 3.7 | 8.68 | 22.06 | 7.33 | 41.1 | 0.03 | 98.7 | - | 379 |
| Rockford Bay | 3297 | DBSS | 8/14/97 | - | 8 | 10 | 4.7 | 8.67 | 21.88 | 7.28 | 41.2 | 0.03 | 98.2 | - | 381 |
| Rockford Bay | 3297 | DBSS | 8/14/97 | - | 8 | 9 | 5.7 | 8.62 | 21.69 | 7.19 | 41.3 | 0.03 | 97.3 | - | 384 |
| Rockford Bay | 3297 | DBSS | 8/14/97 | - | 8 | 8 | 6.7 | 8.64 | 21.35 | 7.13 | 41.3 | 0.03 | 97 | - | 385 |
| Rockford Bay | 3297 | DBSS | 8/14/97 | - | 8 | 7 | 7.7 | 8.72 | 20.58 | 7.04 | 39.5 | 0.03 | 96.3 | - | 388 |
| Rockford Bay | 3297 | DBSS | 8/14/97 | - | 8 | 6 | 8.7 | 9.23 | 17.2 | 6.92 | 36.6 | 0.02 | 95.2 | - | 395 |
| Rockford Bay | 3297 | DBSS | 8/14/97 | - | 8 | 5 | 9.7 | 9.25 | 16.24 | 6.87 | 35.9 | 0.02 | 93.6 | - | 397 |
| Rockford Bay | 3297 | DBSS | 8/14/97 | - | 8 | 4 | 10.7 | 9.12 | 14.81 | 6.84 | 35.3 | 0.02 | 89.4 | - | 398 |
| Rockford Bay | 3297 | DBSS | 8/14/97 | - | 8 | 3 | 11.7 | 9.02 | 13.12 | 6.82 | 34.9 | 0.02 | 85.2 | - | 399 |

| | | | | | | | | | | | | | | | |
|--------------|------|------|----------|---|-----|----|------|-------|-------|------|------|------|-------|---|-----|
| Rockford Bay | 3297 | DBSS | 8/14/97 | - | 8 | 2 | 12.8 | 8.61 | 12.44 | 6.79 | 35.3 | 0.02 | 80.2 | - | 401 |
| Rockford Bay | 3297 | DBSS | 8/14/97 | - | 8 | 1 | 13.7 | 8.22 | 10.67 | 6.81 | 36.1 | 0.02 | 73.5 | - | 401 |
| | | | | | | | | | | | | | | | |
| Rockford Bay | 3497 | DBSS | 8/27/97 | - | 8.5 | 14 | 0.3 | 9.16 | 21.23 | 7.43 | 47.7 | 0.03 | 102.6 | - | 372 |
| Rockford Bay | 3497 | DBSS | 8/27/97 | - | 8.5 | 13 | 1.2 | 9.17 | 21.23 | 7.39 | 47.6 | 0.03 | 102.7 | - | 373 |
| Rockford Bay | 3497 | DBSS | 8/27/97 | - | 8.5 | 12 | 2.2 | 9.19 | 21.16 | 7.37 | 47.8 | 0.03 | 102.9 | - | 374 |
| Rockford Bay | 3497 | DBSS | 8/27/97 | - | 8.5 | 11 | 3.1 | 9.23 | 21.11 | 7.35 | 47.8 | 0.03 | 103.1 | - | 374 |
| Rockford Bay | 3497 | DBSS | 8/27/97 | - | 8.5 | 10 | 4.1 | 9.24 | 21.06 | 7.31 | 47.9 | 0.03 | 103.4 | - | 375 |
| Rockford Bay | 3497 | DBSS | 8/27/97 | - | 8.5 | 9 | 5.2 | 9.21 | 21 | 7.26 | 47.7 | 0.03 | 102.8 | - | 377 |
| Rockford Bay | 3497 | DBSS | 8/27/97 | - | 8.5 | 8 | 6.1 | 9.19 | 20.91 | 7.18 | 47.8 | 0.03 | 102.3 | - | 380 |
| Rockford Bay | 3497 | DBSS | 8/27/97 | - | 8.5 | 7 | 7.2 | 9.17 | 20.76 | 7.09 | 47.7 | 0.03 | 101.8 | - | 383 |
| Rockford Bay | 3497 | DBSS | 8/27/97 | - | 8.5 | 6 | 8.2 | 9.26 | 18.17 | 6.96 | 42.3 | 0.03 | 97.6 | - | 389 |
| Rockford Bay | 3497 | DBSS | 8/27/97 | - | 8.5 | 5 | 9.2 | 9.23 | 16.83 | 6.9 | 40.5 | 0.03 | 94.8 | - | 392 |
| Rockford Bay | 3497 | DBSS | 8/27/97 | - | 8.5 | 4 | 10.2 | 9.09 | 15.66 | 6.82 | 39.7 | 0.03 | 90.9 | - | 396 |
| Rockford Bay | 3497 | DBSS | 8/27/97 | - | 8.5 | 3 | 11.3 | 8.94 | 14.06 | 6.79 | 39.1 | 0.03 | 86.3 | - | 398 |
| Rockford Bay | 3497 | DBSS | 8/27/97 | - | 8.5 | 2 | 12.3 | 8.74 | 11.82 | 6.76 | 39 | 0.03 | 80.4 | - | 400 |
| Rockford Bay | 3497 | DBSS | 8/27/97 | - | 8.5 | 1 | 13.2 | 8.8 | 11.23 | 6.78 | 39.2 | 0.03 | 79.8 | - | 400 |
| | | | | | | | | | | | | | | | |
| Rockford Bay | 3797 | ASRP | 9/17/97 | - | 8 | 13 | 0.2 | 9.33 | 16.91 | 7.31 | 48.4 | 0.03 | 97.3 | - | 392 |
| Rockford Bay | 3797 | ASRP | 9/17/97 | - | 8 | 12 | 1.8 | 9.34 | 16.9 | 7.31 | 48.5 | 0.03 | 97.5 | - | 392 |
| Rockford Bay | 3797 | ASRP | 9/17/97 | - | 8 | 11 | 2.8 | 9.33 | 16.89 | 7.31 | 48.4 | 0.03 | 97.3 | - | 392 |
| Rockford Bay | 3797 | ASRP | 9/17/97 | - | 8 | 10 | 3.8 | 9.33 | 16.86 | 7.3 | 48.4 | 0.03 | 97.3 | - | 392 |
| Rockford Bay | 3797 | ASRP | 9/17/97 | - | 8 | 9 | 4.8 | 9.35 | 16.85 | 7.31 | 48.4 | 0.03 | 97.5 | - | 391 |
| Rockford Bay | 3797 | ASRP | 9/17/97 | - | 8 | 8 | 5.8 | 9.33 | 16.83 | 7.29 | 48.5 | 0.03 | 97.2 | - | 392 |
| Rockford Bay | 3797 | ASRP | 9/17/97 | - | 8 | 7 | 6.8 | 9.34 | 16.82 | 7.29 | 48.3 | 0.03 | 97.4 | - | 392 |
| Rockford Bay | 3797 | ASRP | 9/17/97 | - | 8 | 6 | 7.8 | 9.35 | 16.8 | 7.28 | 48.5 | 0.03 | 97.6 | - | 392 |
| Rockford Bay | 3797 | ASRP | 9/17/97 | - | 8 | 5 | 8.8 | 9.34 | 16.63 | 7.27 | 47.7 | 0.03 | 96.9 | - | 393 |
| Rockford Bay | 3797 | ASRP | 9/17/97 | - | 8 | 4 | 9.8 | 9.31 | 16.6 | 7.25 | 47.6 | 0.03 | 96.5 | - | 393 |
| Rockford Bay | 3797 | ASRP | 9/17/97 | - | 8 | 3 | 10.8 | 9.37 | 16.55 | 7.25 | 47.4 | 0.03 | 97.1 | - | 394 |
| Rockford Bay | 3797 | ASRP | 9/17/97 | - | 8 | 2 | 11.8 | 9.34 | 16.36 | 7.26 | 46.8 | 0.03 | 96.5 | - | 393 |
| Rockford Bay | 3797 | ASRP | 9/17/97 | - | 8 | 1 | 12.8 | 9.38 | 16.33 | 7.25 | 46.6 | 0.03 | 96.8 | - | 393 |
| | | | | | | | | | | | | | | | |
| Rockford Bay | 3997 | ASRA | 9/29/97 | - | 8.2 | 10 | 0.2 | 9.72 | 15.81 | 7.19 | 43.5 | 0.03 | 99.1 | - | 446 |
| Rockford Bay | 3997 | ASRA | 9/29/97 | - | 8.2 | 9 | 1 | 9.68 | 15.72 | 7.18 | 43.6 | 0.03 | 98.5 | - | 446 |
| Rockford Bay | 3997 | ASRA | 9/29/97 | - | 8.2 | 8 | 2.5 | 9.66 | 15.67 | 7.15 | 43.6 | 0.03 | 98.2 | - | 447 |
| Rockford Bay | 3997 | ASRA | 9/29/97 | - | 8.2 | 7 | 4 | 9.65 | 15.61 | 7.12 | 43.6 | 0.03 | 98 | - | 447 |
| Rockford Bay | 3997 | ASRA | 9/29/97 | - | 8.2 | 6 | 5.5 | 9.58 | 15.54 | 7.1 | 43.5 | 0.03 | 97.1 | - | 447 |
| Rockford Bay | 3997 | ASRA | 9/29/97 | - | 8.2 | 5 | 7 | 9.52 | 15.36 | 7.06 | 43.6 | 0.03 | 96 | - | 448 |
| Rockford Bay | 3997 | ASRA | 9/29/97 | - | 8.2 | 4 | 8.5 | 9.48 | 15.19 | 7.04 | 43.6 | 0.03 | 95.4 | - | 447 |
| Rockford Bay | 3997 | ASRA | 9/29/97 | - | 8.2 | 3 | 10 | 9.44 | 15.13 | 6.98 | 43.6 | 0.03 | 94.9 | - | 446 |
| Rockford Bay | 3997 | ASRA | 9/29/97 | - | 8.2 | 2 | 11.3 | 9.51 | 14.94 | 6.95 | 43.6 | 0.03 | 95.1 | - | 444 |
| Rockford Bay | 3997 | ASRA | 9/29/97 | - | 8.2 | 1 | 12.8 | 9.42 | 14.71 | 6.89 | 43.5 | 0.03 | 93.8 | - | 441 |
| | | | | | | | | | | | | | | | |
| Rockford Bay | 4297 | DBAS | 10/21/97 | - | 7.5 | 12 | 0.4 | 10.03 | 12.41 | 7.16 | 48.2 | 0.03 | 92.9 | - | 396 |

| | | | | | | | | | | | | | | | |
|--------------|------|------|----------|---|-----|----|------|-------|-------|------|------|------|------|-----|-----|
| Rockford Bay | 4297 | DBAS | 10/21/97 | - | 7.5 | 11 | 1.8 | 10.02 | 12.41 | 7.13 | 48.2 | 0.03 | 92.9 | - | 398 |
| Rockford Bay | 4297 | DBAS | 10/21/97 | - | 7.5 | 10 | 2.8 | 10.02 | 12.41 | 7.13 | 48.2 | 0.03 | 92.9 | - | 397 |
| Rockford Bay | 4297 | DBAS | 10/21/97 | - | 7.5 | 9 | 3.8 | 10.02 | 12.41 | 7.12 | 48.2 | 0.03 | 92.9 | - | 398 |
| Rockford Bay | 4297 | DBAS | 10/21/97 | - | 7.5 | 8 | 4.8 | 10.02 | 12.41 | 7.09 | 48.3 | 0.03 | 92.9 | - | 399 |
| Rockford Bay | 4297 | DBAS | 10/21/97 | - | 7.5 | 7 | 5.9 | 10.02 | 12.41 | 7.09 | 48.2 | 0.03 | 92.9 | - | 399 |
| Rockford Bay | 4297 | DBAS | 10/21/97 | - | 7.5 | 6 | 6.8 | 10.02 | 12.41 | 7.07 | 48.3 | 0.03 | 92.9 | - | 399 |
| Rockford Bay | 4297 | DBAS | 10/21/97 | - | 7.5 | 5 | 7.8 | 10.04 | 12.41 | 7.04 | 48.3 | 0.03 | 93 | - | 400 |
| Rockford Bay | 4297 | DBAS | 10/21/97 | - | 7.5 | 4 | 8.8 | 10.04 | 12.41 | 7.02 | 48.3 | 0.03 | 92.9 | - | 400 |
| Rockford Bay | 4297 | DBAS | 10/21/97 | - | 7.5 | 3 | 9.8 | 10.02 | 12.41 | 7 | 48.2 | 0.03 | 92.9 | - | 401 |
| Rockford Bay | 4297 | DBAS | 10/21/97 | - | 7.5 | 2 | 11.8 | 10.03 | 12.4 | 6.93 | 48.2 | 0.03 | 92.9 | - | 402 |
| Rockford Bay | 4297 | DBAS | 10/21/97 | - | 7.5 | 1 | 12.8 | 10.05 | 12.38 | 6.88 | 48.3 | 0.03 | 93 | - | 404 |
| | | | | | | | | | | | | | | | |
| Rockford Bay | 4497 | DBAS | 11/4/97 | - | 7.2 | 13 | 0.3 | 10.68 | 10.28 | 7.1 | 46.8 | 0.03 | 94.4 | 39 | 420 |
| Rockford Bay | 4497 | DBAS | 11/4/97 | - | 7.2 | 12 | 1.7 | 10.69 | 10.15 | 7.07 | 46.9 | 0.03 | 94.1 | 41 | 423 |
| Rockford Bay | 4497 | DBAS | 11/4/97 | - | 7.2 | 11 | 2.7 | 10.66 | 10.14 | 7.08 | 46.9 | 0.03 | 93.9 | 46 | 422 |
| Rockford Bay | 4497 | DBAS | 11/4/97 | - | 7.2 | 10 | 3.8 | 10.67 | 10.12 | 7.07 | 47 | 0.03 | 93.9 | 122 | 423 |
| Rockford Bay | 4497 | DBAS | 11/4/97 | - | 7.2 | 9 | 4.7 | 10.73 | 10.09 | 7.04 | 46.8 | 0.03 | 94.4 | 50 | 425 |
| Rockford Bay | 4497 | DBAS | 11/4/97 | - | 7.2 | 8 | 5.8 | 10.66 | 10.09 | 7.05 | 46.9 | 0.03 | 93.8 | 49 | 424 |
| Rockford Bay | 4497 | DBAS | 11/4/97 | - | 7.2 | 7 | 6.7 | 10.66 | 10.07 | 7 | 46.9 | 0.03 | 93.7 | 101 | 427 |
| Rockford Bay | 4497 | DBAS | 11/4/97 | - | 7.2 | 6 | 7.7 | 10.66 | 10.07 | 7 | 46.9 | 0.03 | 93.7 | 108 | 427 |
| Rockford Bay | 4497 | DBAS | 11/4/97 | - | 7.2 | 5 | 8.7 | 10.66 | 10.05 | 7.01 | 47 | 0.03 | 93.7 | 124 | 427 |
| Rockford Bay | 4497 | DBAS | 11/4/97 | - | 7.2 | 4 | 9.7 | 10.72 | 10 | 6.99 | 47 | 0.03 | 94 | 101 | 428 |
| Rockford Bay | 4497 | DBAS | 11/4/97 | - | 7.2 | 3 | 10.7 | 10.75 | 10 | 6.95 | 47.2 | 0.03 | 94.3 | 42 | 431 |
| Rockford Bay | 4497 | DBAS | 11/4/97 | - | 7.2 | 2 | 11.7 | 10.71 | 9.99 | 6.96 | 47.2 | 0.03 | 93.9 | 53 | 430 |
| Rockford Bay | 4497 | DBAS | 11/4/97 | - | 7.2 | 1 | 12.6 | 10.66 | 9.99 | 6.88 | 47.2 | 0.03 | 93.5 | 730 | 434 |

| Location | Phase | Samplers | Date | Time | Secchi (m) | Sequence | Depth (m) | Dissolved Oxygen (mg/L) | Temperature (C) | pH | Conductivity (μs/cm) | TDS | Saturated Dissolved Oxygen | Stabilization Time | Redox |
|-------------------|-------|----------|---------|------|------------|----------|-----------|-------------------------|-----------------|------|----------------------|------|----------------------------|--------------------|-------|
| Windy Bay Shallow | 1597 | ASSS | 4/18/97 | - | 1.4 | 10 | 0.2 | 12.97 | 5.69 | 7.39 | 42.6 | 0.03 | ***** | - | 388 |
| Windy Bay Shallow | 1597 | ASSS | 4/18/97 | - | 1.4 | 9 | 1.4 | 12.96 | 5.67 | 7.39 | 42.7 | 0.03 | ***** | - | 388 |
| Windy Bay Shallow | 1597 | ASSS | 4/18/97 | - | 1.4 | 8 | 2.5 | 12.99 | 5.62 | 7.38 | 42.7 | 0.03 | ***** | - | 389 |
| Windy Bay Shallow | 1597 | ASSS | 4/18/97 | - | 1.4 | 7 | 3.7 | 12.97 | 5.6 | 7.37 | 42.9 | 0.03 | ***** | - | 389 |
| Windy Bay Shallow | 1597 | ASSS | 4/18/97 | - | 1.4 | 6 | 5.2 | 12.93 | 5.52 | 7.37 | 43.1 | 0.03 | ***** | - | 389 |
| Windy Bay Shallow | 1597 | ASSS | 4/18/97 | - | 1.4 | 5 | 6.5 | 12.95 | 5.52 | 7.36 | 43.2 | 0.03 | ***** | - | 390 |
| Windy Bay Shallow | 1597 | ASSS | 4/18/97 | - | 1.4 | 4 | 7.8 | 12.95 | 5.47 | 7.36 | 42.8 | 0.03 | ***** | - | 390 |
| Windy Bay Shallow | 1597 | ASSS | 4/18/97 | - | 1.4 | 3 | 9.1 | 12.91 | 5.46 | 7.36 | 43.1 | 0.03 | ***** | - | 390 |
| Windy Bay Shallow | 1597 | ASSS | 4/18/97 | - | 1.4 | 2 | 10.5 | 12.89 | 5.42 | 7.35 | 43.3 | 0.03 | ***** | - | 391 |
| Windy Bay Shallow | 1597 | ASSS | 4/18/97 | - | 1.4 | 1 | 11.9 | 12.85 | 5.22 | 7.36 | 43.7 | 0.03 | ***** | - | 392 |
| | | | | | | | | | | | | | | | |
| Windy Bay Shallow | 1997 | DBSS | 5/16/97 | - | 1.75 | 13 | 0.2 | 11.48 | 12.43 | 7.03 | 21 | 0.01 | 106.8 | - | 420 |
| Windy Bay Shallow | 1997 | DBSS | 5/16/97 | - | 1.75 | 12 | 1.1 | 11.6 | 11.46 | 7 | 36.7 | 0.02 | 105.4 | - | 427 |
| Windy Bay Shallow | 1997 | DBSS | 5/16/97 | - | 1.75 | 11 | 2.6 | 11.6 | 10.94 | 6.95 | 36 | 0.02 | 104.2 | - | 431 |
| Windy Bay Shallow | 1997 | DBSS | 5/16/97 | - | 1.75 | 10 | 4.1 | 11.39 | 10.15 | 6.9 | 34.8 | 0.02 | 100.4 | - | 433 |

| | | | | | | | | | | | | | | | |
|-------------------|------|------|---------|---|------|----|------|-------|-------|------|------|------|-------|---|-----|
| Windy Bay Shallow | 1997 | DBSS | 5/16/97 | - | 1.75 | 9 | 5.6 | 11.34 | 9.74 | 6.89 | 35.3 | 0.02 | 99 | - | 433 |
| Windy Bay Shallow | 1997 | DBSS | 5/16/97 | - | 1.75 | 8 | 7.1 | 11.39 | 9.53 | 6.86 | 36.5 | 0.02 | 99 | - | 434 |
| Windy Bay Shallow | 1997 | DBSS | 5/16/97 | - | 1.75 | 7 | 8.6 | 11.4 | 9.15 | 6.84 | 38.2 | 0.02 | 98.2 | - | 434 |
| Windy Bay Shallow | 1997 | DBSS | 5/16/97 | - | 1.75 | 6 | 10.1 | 11.38 | 8.69 | 6.81 | 38.7 | 0.02 | 97.1 | - | 435 |
| Windy Bay Shallow | 1997 | DBSS | 5/16/97 | - | 1.75 | 5 | 11.6 | 11.36 | 8.17 | 6.8 | 40.8 | 0.03 | 95.5 | - | 436 |
| Windy Bay Shallow | 1997 | DBSS | 5/16/97 | - | 1.75 | 4 | 13.1 | 11.34 | 8.04 | 6.77 | 41.4 | 0.03 | 95 | - | 436 |
| Windy Bay Shallow | 1997 | DBSS | 5/16/97 | - | 1.75 | 3 | 14.6 | 11.45 | 7.47 | 6.76 | 43.4 | 0.03 | 94.6 | - | 437 |
| Windy Bay Shallow | 1997 | DBSS | 5/16/97 | - | 1.75 | 2 | 16.1 | 11.4 | 7.19 | 6.73 | 43.4 | 0.03 | 93.5 | - | 437 |
| Windy Bay Shallow | 1997 | DBSS | 5/16/97 | - | 1.75 | 1 | 17.6 | 11.5 | 7.02 | 6.69 | 43.6 | 0.03 | 94 | - | 436 |
| Windy Bay Shallow | 2197 | DBSS | 5/29/97 | - | 1.5 | 16 | 0.5 | 10.7 | 16.3 | 7.03 | 31.5 | 0.02 | 108.5 | - | 382 |
| Windy Bay Shallow | 2197 | DBSS | 5/29/97 | - | 1.5 | 15 | 1.5 | 10.69 | 16.23 | 7.01 | 31.5 | 0.02 | 108.3 | - | 382 |
| Windy Bay Shallow | 2197 | DBSS | 5/29/97 | - | 1.5 | 14 | 2.4 | 10.74 | 15.76 | 6.99 | 31.5 | 0.02 | 107.7 | - | 383 |
| Windy Bay Shallow | 2197 | DBSS | 5/29/97 | - | 1.5 | 13 | 3.5 | 10.76 | 14.11 | 6.93 | 30.9 | 0.02 | 104.1 | - | 386 |
| Windy Bay Shallow | 2197 | DBSS | 5/29/97 | - | 1.5 | 12 | 4.5 | 9.97 | 12.69 | 6.86 | 31.2 | 0.02 | 93.5 | - | 389 |
| Windy Bay Shallow | 2197 | DBSS | 5/29/97 | - | 1.5 | 11 | 5.6 | 10.42 | 11.36 | 6.88 | 29.9 | 0.02 | 94.7 | - | 389 |
| Windy Bay Shallow | 2197 | DBSS | 5/29/97 | - | 1.5 | 10 | 6.5 | 10.43 | 10.68 | 6.87 | 29.5 | 0.02 | 93.3 | - | 389 |
| Windy Bay Shallow | 2197 | DBSS | 5/29/97 | - | 1.5 | 9 | 7.4 | 10.48 | 10.5 | 6.87 | 29.4 | 0.02 | 93.3 | - | 389 |
| Windy Bay Shallow | 2197 | DBSS | 5/29/97 | - | 1.5 | 8 | 8.5 | 10.52 | 10.33 | 6.87 | 29.6 | 0.02 | 93.3 | - | 389 |
| Windy Bay Shallow | 2197 | DBSS | 5/29/97 | - | 1.5 | 7 | 9.5 | 10.5 | 9.97 | 6.85 | 29.4 | 0.02 | 92.4 | - | 390 |
| Windy Bay Shallow | 2197 | DBSS | 5/29/97 | - | 1.5 | 6 | 10.6 | 10.45 | 9.09 | 6.85 | 30.4 | 0.02 | 90 | - | 390 |
| Windy Bay Shallow | 2197 | DBSS | 5/29/97 | - | 1.5 | 5 | 11.5 | 10.37 | 8.97 | 6.84 | 30.6 | 0.02 | 89.1 | - | 391 |
| Windy Bay Shallow | 2197 | DBSS | 5/29/97 | - | 1.5 | 4 | 12.6 | 10.26 | 8.83 | 6.84 | 31.1 | 0.02 | 87.8 | - | 390 |
| Windy Bay Shallow | 2197 | DBSS | 5/29/97 | - | 1.5 | 3 | 13.6 | 10.34 | 8.61 | 6.84 | 31.7 | 0.02 | 88.1 | - | 391 |
| Windy Bay Shallow | 2197 | DBSS | 5/29/97 | - | 1.5 | 2 | 14.6 | 10.31 | 8.42 | 6.84 | 32.7 | 0.02 | 87.4 | - | 391 |
| Windy Bay Shallow | 2197 | DBSS | 5/29/97 | - | 1.5 | 1 | 15.5 | 10.34 | 8.27 | 6.84 | 33.3 | 0.02 | 87.3 | - | 391 |
| Windy Bay Shallow | 2397 | DBAS | 6/11/97 | - | 2 | 16 | 0.5 | 10.8 | 13.95 | 7.02 | 34.9 | 0.02 | 104.5 | - | 423 |
| Windy Bay Shallow | 2397 | DBAS | 6/11/97 | - | 2 | 15 | 1.4 | 10.67 | 12.79 | 7.01 | 34.6 | 0.02 | 100.6 | - | 425 |
| Windy Bay Shallow | 2397 | DBAS | 6/11/97 | - | 2 | 14 | 2.3 | 10.89 | 11.64 | 6.98 | 32.6 | 0.02 | 100 | - | 426 |
| Windy Bay Shallow | 2397 | DBAS | 6/11/97 | - | 2 | 13 | 3.3 | 10.84 | 11.1 | 6.98 | 32 | 0.02 | 98.3 | - | 427 |
| Windy Bay Shallow | 2397 | DBAS | 6/11/97 | - | 2 | 12 | 4.4 | 10.74 | 10.53 | 6.98 | 32.5 | 0.02 | 96.1 | - | 427 |
| Windy Bay Shallow | 2397 | DBAS | 6/11/97 | - | 2 | 11 | 5.3 | 10.78 | 10.22 | 6.97 | 30.8 | 0.02 | 95.8 | - | 427 |
| Windy Bay Shallow | 2397 | DBAS | 6/11/97 | - | 2 | 10 | 6.3 | 10.69 | 10.04 | 6.97 | 30.5 | 0.02 | 94.7 | - | 427 |
| Windy Bay Shallow | 2397 | DBAS | 6/11/97 | - | 2 | 9 | 7.5 | 10.66 | 9.96 | 6.96 | 30.6 | 0.02 | 94.3 | - | 427 |
| Windy Bay Shallow | 2397 | DBAS | 6/11/97 | - | 2 | 8 | 8.3 | 10.58 | 9.89 | 6.96 | 31 | 0.02 | 93.3 | - | 427 |
| Windy Bay Shallow | 2397 | DBAS | 6/11/97 | - | 2 | 7 | 9.5 | 10.63 | 9.66 | 6.96 | 30.9 | 0.02 | 93.2 | - | 427 |
| Windy Bay Shallow | 2397 | DBAS | 6/11/97 | - | 2 | 6 | 10.4 | 10.6 | 9.63 | 6.96 | 31.4 | 0.02 | 92.8 | - | 427 |
| Windy Bay Shallow | 2397 | DBAS | 6/11/97 | - | 2 | 5 | 11.6 | 10.61 | 9.5 | 6.96 | 31.5 | 0.02 | 92.7 | - | 427 |
| Windy Bay Shallow | 2397 | DBAS | 6/11/97 | - | 2 | 4 | 12.5 | 10.61 | 9.32 | 6.95 | 32 | 0.02 | 92.2 | - | 427 |
| Windy Bay Shallow | 2397 | DBAS | 6/11/97 | - | 2 | 3 | 13.6 | 10.56 | 9.1 | 6.95 | 33 | 0.02 | 91.3 | - | 427 |
| Windy Bay Shallow | 2397 | DBAS | 6/11/97 | - | 2 | 2 | 14.7 | 10.65 | 8.68 | 6.95 | 34.5 | 0.02 | 91.1 | - | 428 |
| Windy Bay Shallow | 2397 | DBAS | 6/11/97 | - | 2 | 1 | 15.7 | 10.64 | 8.66 | 6.96 | 34.7 | 0.02 | 91 | - | 427 |

| | | | | | | | | | | | | | | | |
|-------------------|------|------|---------|---|-----|----|------|-------|-------|------|------|------|-------|---|-----|
| Windy Bay Shallow | 2597 | DBSS | 6/26/97 | - | 2.2 | 16 | 0.4 | 10.71 | 14.84 | 7.13 | 35.5 | 0.02 | 105.6 | - | 440 |
| Windy Bay Shallow | 2597 | DBSS | 6/26/97 | - | 2.2 | 15 | 0.8 | 10.71 | 14.83 | 7.14 | 35.4 | 0.02 | 105.5 | - | 438 |
| Windy Bay Shallow | 2597 | DBSS | 6/26/97 | - | 2.2 | 14 | 1.7 | 10.72 | 14.74 | 7.11 | 35.4 | 0.02 | 105.5 | - | 440 |
| Windy Bay Shallow | 2597 | DBSS | 6/26/97 | - | 2.2 | 13 | 2.7 | 10.74 | 14.21 | 7.11 | 35.4 | 0.02 | 104.4 | - | 440 |
| Windy Bay Shallow | 2597 | DBSS | 6/26/97 | - | 2.2 | 12 | 3.7 | 10.81 | 13.65 | 7.09 | 34.9 | 0.02 | 103.8 | - | 441 |
| Windy Bay Shallow | 2597 | DBSS | 6/26/97 | - | 2.2 | 11 | 4.7 | 10.83 | 13.22 | 7.08 | 34.3 | 0.02 | 103 | - | 442 |
| Windy Bay Shallow | 2597 | DBSS | 6/26/97 | - | 2.2 | 10 | 5.6 | 10.82 | 12.61 | 7.08 | 34 | 0.02 | 101.4 | - | 442 |
| Windy Bay Shallow | 2597 | DBSS | 6/26/97 | - | 2.2 | 9 | 6.5 | 10.8 | 12.73 | 7.07 | 34 | 0.02 | 101.4 | - | 442 |
| Windy Bay Shallow | 2597 | DBSS | 6/26/97 | - | 2.2 | 8 | 7.9 | 10.81 | 12.12 | 7.05 | 33.5 | 0.02 | 100.2 | - | 442 |
| Windy Bay Shallow | 2597 | DBSS | 6/26/97 | - | 2.2 | 7 | 8.5 | 10.77 | 12.05 | 7.05 | 33.6 | 0.02 | 99.8 | - | 442 |
| Windy Bay Shallow | 2597 | DBSS | 6/26/97 | - | 2.2 | 6 | 9.7 | 10.81 | 11.61 | 7.04 | 33.5 | 0.02 | 99.1 | - | 442 |
| Windy Bay Shallow | 2597 | DBSS | 6/26/97 | - | 2.2 | 5 | 10.6 | 10.82 | 11.56 | 7.04 | 33.4 | 0.02 | 99.1 | - | 442 |
| Windy Bay Shallow | 2597 | DBSS | 6/26/97 | - | 2.2 | 4 | 11.5 | 10.79 | 11.41 | 7.03 | 33.7 | 0.02 | 98.4 | - | 442 |
| Windy Bay Shallow | 2597 | DBSS | 6/26/97 | - | 2.2 | 3 | 12.5 | 10.78 | 11.2 | 7.03 | 33.7 | 0.02 | 97.9 | - | 441 |
| Windy Bay Shallow | 2597 | DBSS | 6/26/97 | - | 2.2 | 2 | 13.6 | 10.81 | 11.12 | 7.03 | 33.7 | 0.02 | 98 | - | 441 |
| Windy Bay Shallow | 2597 | DBSS | 6/26/97 | - | 2.2 | 1 | 14.8 | 10.78 | 11.02 | 7.05 | 33.5 | 0.02 | 97.5 | - | 440 |
| | | | | | | | | | | | | | | | |
| Windy Bay Shallow | 2797 | DBSS | 7/9/97 | - | 3.5 | 16 | 0.4 | 10.28 | 16.6 | 7.25 | 37.3 | 0.02 | ***** | - | 411 |
| Windy Bay Shallow | 2797 | DBSS | 7/9/97 | - | 3.5 | 15 | 1.1 | 10.28 | 16.59 | 7.24 | 37.3 | 0.02 | ***** | - | 412 |
| Windy Bay Shallow | 2797 | DBSS | 7/9/97 | - | 3.5 | 14 | 2 | 10.29 | 16.55 | 7.2 | 37.3 | 0.02 | ***** | - | 414 |
| Windy Bay Shallow | 2797 | DBSS | 7/9/97 | - | 3.5 | 13 | 2.9 | 10.28 | 16.53 | 7.18 | 37.3 | 0.02 | ***** | - | 414 |
| Windy Bay Shallow | 2797 | DBSS | 7/9/97 | - | 3.5 | 12 | 3.9 | 10.28 | 16.32 | 7.15 | 37.4 | 0.02 | ***** | - | 414 |
| Windy Bay Shallow | 2797 | DBSS | 7/9/97 | - | 3.5 | 11 | 5 | 10.39 | 15.56 | 7.12 | 36.7 | 0.02 | ***** | - | 416 |
| Windy Bay Shallow | 2797 | DBSS | 7/9/97 | - | 3.5 | 10 | 6 | 10.4 | 15.31 | 7.1 | 36.5 | 0.02 | ***** | - | 416 |
| Windy Bay Shallow | 2797 | DBSS | 7/9/97 | - | 3.5 | 9 | 7 | 10.35 | 15.03 | 7.06 | 36.8 | 0.02 | ***** | - | 417 |
| Windy Bay Shallow | 2797 | DBSS | 7/9/97 | - | 3.5 | 8 | 8 | 10.35 | 14.51 | 7.06 | 36 | 0.02 | ***** | - | 418 |
| Windy Bay Shallow | 2797 | DBSS | 7/9/97 | - | 3.5 | 7 | 9 | 10.3 | 14.21 | 7.03 | 36.3 | 0.02 | ***** | - | 418 |
| Windy Bay Shallow | 2797 | DBSS | 7/9/97 | - | 3.5 | 6 | 10.1 | 10.19 | 13.65 | 6.99 | 35.2 | 0.02 | 98.7 | - | 419 |
| Windy Bay Shallow | 2797 | DBSS | 7/9/97 | - | 3.5 | 5 | 11 | 10.04 | 13.32 | 6.94 | 35.3 | 0.02 | 96.5 | - | 420 |
| Windy Bay Shallow | 2797 | DBSS | 7/9/97 | - | 3.5 | 4 | 12 | 9.95 | 12.79 | 6.93 | 34.7 | 0.02 | 94.5 | - | 421 |
| Windy Bay Shallow | 2797 | DBSS | 7/9/97 | - | 3.5 | 3 | 13 | 9.66 | 11.92 | 6.9 | 34.9 | 0.02 | 90 | - | 423 |
| Windy Bay Shallow | 2797 | DBSS | 7/9/97 | - | 3.5 | 2 | 14 | 9.5 | 10.12 | 6.9 | 36.4 | 0.02 | 84.8 | - | 424 |
| Windy Bay Shallow | 2797 | DBSS | 7/9/97 | - | 3.5 | 1 | 15 | 9.57 | 9.74 | 6.94 | 37.4 | 0.02 | 84.7 | - | 422 |
| | | | | | | | | | | | | | | | |
| Windy Bay Shallow | 2997 | SSJD | 7/23/97 | - | 4.5 | 10 | 1.6 | 10.61 | 19.64 | 7.58 | 39.1 | 0.03 | 108.7 | - | 437 |
| Windy Bay Shallow | 2997 | SSJD | 7/23/97 | - | 4.5 | 9 | 3 | 10.74 | 19.09 | 7.58 | 38.8 | 0.02 | 108.9 | - | 437 |
| Windy Bay Shallow | 2997 | SSJD | 7/23/97 | - | 4.5 | 8 | 4.7 | 11.09 | 18.2 | 7.53 | 37.9 | 0.02 | 110.4 | - | 439 |
| Windy Bay Shallow | 2997 | SSJD | 7/23/97 | - | 4.5 | 7 | 6.1 | 11.2 | 17.22 | 7.43 | 37.5 | 0.02 | 109.3 | - | 442 |
| Windy Bay Shallow | 2997 | SSJD | 7/23/97 | - | 4.5 | 6 | 7.6 | 11.19 | 16.86 | 7.34 | 37.3 | 0.02 | 108.3 | - | 444 |
| Windy Bay Shallow | 2997 | SSJD | 7/23/97 | - | 4.5 | 5 | 9 | 11.06 | 16.59 | 7.26 | 37.2 | 0.02 | 106.5 | - | 445 |
| Windy Bay Shallow | 2997 | SSJD | 7/23/97 | - | 4.5 | 4 | 10.5 | 10.86 | 15.92 | 7.17 | 36.6 | 0.02 | 103.1 | - | 447 |
| Windy Bay Shallow | 2997 | SSJD | 7/23/97 | - | 4.5 | 3 | 12 | 10.67 | 15.4 | 7.05 | 36.6 | 0.02 | 100 | - | 449 |
| Windy Bay Shallow | 2997 | SSJD | 7/23/97 | - | 4.5 | 2 | 13.5 | 9.73 | 14.29 | 6.93 | 36.9 | 0.02 | 89.2 | - | 453 |
| Windy Bay Shallow | 2997 | SSJD | 7/23/97 | - | 4.5 | 1 | 15.5 | 9.38 | 11.93 | 6.87 | 36.7 | 0.02 | 81.7 | - | 455 |

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|-------------------|------|------|---------|---|-----|----|------|------|-------|------|------|------|-------|---|-----|
| | | | | | | | | | | | | | | | |
| Windy Bay Shallow | 3197 | DBSS | 8/5/97 | - | 6.8 | 12 | 0.4 | 8.97 | 24.09 | 7.47 | 42.1 | 0.03 | 105.3 | - | 369 |
| Windy Bay Shallow | 3197 | DBSS | 8/5/97 | - | 6.8 | 11 | 1 | 8.97 | 24.06 | 7.47 | 42 | 0.03 | 105.3 | - | 370 |
| Windy Bay Shallow | 3197 | DBSS | 8/5/97 | - | 6.8 | 10 | 2.5 | 9.06 | 23.78 | 7.42 | 42.1 | 0.03 | 105.8 | - | 372 |
| Windy Bay Shallow | 3197 | DBSS | 8/5/97 | - | 6.8 | 9 | 4 | 9.06 | 23.38 | 7.4 | 42 | 0.03 | 105 | - | 373 |
| Windy Bay Shallow | 3197 | DBSS | 8/5/97 | - | 6.8 | 8 | 5.5 | 9.39 | 22.43 | 7.35 | 41.3 | 0.03 | 106.8 | - | 374 |
| Windy Bay Shallow | 3197 | DBSS | 8/5/97 | - | 6.8 | 7 | 7 | 9.93 | 20.42 | 7.23 | 39.5 | 0.03 | 108.6 | - | 378 |
| Windy Bay Shallow | 3197 | DBSS | 8/5/97 | - | 6.8 | 6 | 8.5 | 10 | 17.76 | 7.11 | 36.1 | 0.02 | 103.5 | - | 383 |
| Windy Bay Shallow | 3197 | DBSS | 8/5/97 | - | 6.8 | 5 | 10 | 9.48 | 14.74 | 6.98 | 34.9 | 0.02 | 92.2 | - | 389 |
| Windy Bay Shallow | 3197 | DBSS | 8/5/97 | - | 6.8 | 4 | 11.5 | 9.06 | 12.82 | 6.95 | 34.6 | 0.02 | 84.5 | - | 392 |
| Windy Bay Shallow | 3197 | DBSS | 8/5/97 | - | 6.8 | 3 | 13 | 8.88 | 10.21 | 6.94 | 35.4 | 0.02 | 78 | - | 394 |
| Windy Bay Shallow | 3197 | DBSS | 8/5/97 | - | 6.8 | 2 | 14.5 | 8.99 | 9.33 | 6.97 | 36.2 | 0.02 | 77.3 | - | 394 |
| Windy Bay Shallow | 3197 | DBSS | 8/5/97 | - | 6.8 | 1 | 16 | 8.8 | 8.9 | 7.01 | 37.6 | 0.02 | 75.1 | - | 394 |
| | | | | | | | | | | | | | | | |
| Windy Bay Shallow | 3297 | DBSS | 8/14/97 | - | 4.5 | 14 | 0.2 | 8.65 | 22.04 | 7.52 | 41.5 | 0.03 | 98.3 | - | 378 |
| Windy Bay Shallow | 3297 | DBSS | 8/14/97 | - | 4.5 | 13 | 1.6 | 8.65 | 22.01 | 7.41 | 41.5 | 0.03 | 98.3 | - | 381 |
| Windy Bay Shallow | 3297 | DBSS | 8/14/97 | - | 4.5 | 12 | 2.6 | 8.64 | 22.02 | 7.4 | 41.6 | 0.03 | 98.2 | - | 381 |
| Windy Bay Shallow | 3297 | DBSS | 8/14/97 | - | 4.5 | 11 | 3.6 | 8.64 | 21.99 | 7.32 | 41.6 | 0.03 | 98.2 | - | 384 |
| Windy Bay Shallow | 3297 | DBSS | 8/14/97 | - | 4.5 | 10 | 4.6 | 8.64 | 21.92 | 7.26 | 41.6 | 0.03 | 98 | - | 386 |
| Windy Bay Shallow | 3297 | DBSS | 8/14/97 | - | 4.5 | 9 | 5.5 | 8.64 | 21.78 | 7.19 | 41.5 | 0.03 | 97.7 | - | 388 |
| Windy Bay Shallow | 3297 | DBSS | 8/14/97 | - | 4.5 | 8 | 6.6 | 8.6 | 21.32 | 7.05 | 41.6 | 0.03 | 96.4 | - | 394 |
| Windy Bay Shallow | 3297 | DBSS | 8/14/97 | - | 4.5 | 7 | 7.6 | 8.99 | 16.09 | 7.02 | 35.7 | 0.02 | 90.6 | - | 398 |
| Windy Bay Shallow | 3297 | DBSS | 8/14/97 | - | 4.5 | 6 | 8.5 | 8.96 | 15.22 | 7.01 | 35.6 | 0.02 | 88.8 | - | 399 |
| Windy Bay Shallow | 3297 | DBSS | 8/14/97 | - | 4.5 | 5 | 9.6 | 8.77 | 14.04 | 7.01 | 35.3 | 0.02 | 84.7 | - | 400 |
| Windy Bay Shallow | 3297 | DBSS | 8/14/97 | - | 4.5 | 4 | 10.5 | 8.59 | 12.81 | 7.03 | 35 | 0.02 | 80.6 | - | 400 |
| Windy Bay Shallow | 3297 | DBSS | 8/14/97 | - | 4.5 | 3 | 11.5 | 8.43 | 12.08 | 7.07 | 35.2 | 0.02 | 77.9 | - | 399 |
| Windy Bay Shallow | 3297 | DBSS | 8/14/97 | - | 4.5 | 2 | 12.6 | 8.19 | 11.67 | 7.14 | 35.7 | 0.02 | 74.9 | - | 396 |
| Windy Bay Shallow | 3297 | DBSS | 8/14/97 | - | 4.5 | 1 | 13.7 | 8.03 | 10.82 | 7.13 | 36.3 | 0.02 | 72 | - | 398 |
| | | | | | | | | | | | | | | | |
| Windy Bay Shallow | 3497 | DBSS | 8/27/97 | - | 8 | 12 | 0.4 | 9.26 | 20.74 | 7.51 | 46.5 | 0.03 | 102.8 | - | 368 |
| Windy Bay Shallow | 3497 | DBSS | 8/27/97 | - | 8 | 11 | 1 | 9.27 | 20.76 | 7.5 | 46.4 | 0.03 | 102.9 | - | 368 |
| Windy Bay Shallow | 3497 | DBSS | 8/27/97 | - | 8 | 10 | 2.5 | 9.26 | 20.74 | 7.48 | 46.5 | 0.03 | 102.8 | - | 369 |
| Windy Bay Shallow | 3497 | DBSS | 8/27/97 | - | 8 | 9 | 3.9 | 9.27 | 20.74 | 7.45 | 46.4 | 0.03 | 102.8 | - | 370 |
| Windy Bay Shallow | 3497 | DBSS | 8/27/97 | - | 8 | 8 | 5.5 | 9.23 | 20.7 | 7.38 | 46.6 | 0.03 | 102.4 | - | 372 |
| Windy Bay Shallow | 3497 | DBSS | 8/27/97 | - | 8 | 7 | 7.1 | 9.21 | 20.65 | 7.27 | 46.8 | 0.03 | 102 | - | 377 |
| Windy Bay Shallow | 3497 | DBSS | 8/27/97 | - | 8 | 6 | 8.6 | 9.02 | 17.29 | 6.94 | 39.9 | 0.03 | 93.4 | - | 389 |
| Windy Bay Shallow | 3497 | DBSS | 8/27/97 | - | 8 | 5 | 10 | 9.19 | 14.11 | 6.9 | 38.6 | 0.02 | 88.9 | - | 392 |
| Windy Bay Shallow | 3497 | DBSS | 8/27/97 | - | 8 | 4 | 11.5 | 8.86 | 12.31 | 6.86 | 38.7 | 0.02 | 82.3 | - | 395 |
| Windy Bay Shallow | 3497 | DBSS | 8/27/97 | - | 8 | 3 | 13.1 | 8.52 | 10.95 | 6.86 | 39.6 | 0.03 | 76.7 | - | 396 |
| Windy Bay Shallow | 3497 | DBSS | 8/27/97 | - | 8 | 2 | 14.4 | 8.44 | 9.36 | 6.9 | 41.3 | 0.03 | 73.2 | - | 396 |
| Windy Bay Shallow | 3497 | DBSS | 8/27/97 | - | 8 | 1 | 16.1 | 8.59 | 8.64 | 7.06 | 42.5 | 0.03 | 73.2 | - | 392 |
| | | | | | | | | | | | | | | | |
| Windy Bay Shallow | 3797 | ASRP | 9/17/97 | - | 8.1 | 16 | 0.2 | 9.32 | 17.01 | 7.27 | 47.5 | 0.03 | 97.5 | - | 384 |
| Windy Bay Shallow | 3797 | ASRP | 9/17/97 | - | 8.1 | 15 | 1.7 | 9.32 | 17.01 | 7.26 | 47.6 | 0.03 | 97.5 | - | 385 |

| | | | | | | | | | | | | | | | |
|-------------------|------|------|----------|---|-----|----|------|-------|-------|------|------|------|------|---|-----|
| Windy Bay Shallow | 3797 | ASRP | 9/17/97 | - | 8.1 | 14 | 2.7 | 9.32 | 17 | 7.24 | 47.6 | 0.03 | 97.5 | - | 385 |
| Windy Bay Shallow | 3797 | ASRP | 9/17/97 | - | 8.1 | 13 | 3.7 | 9.3 | 17.01 | 7.24 | 47.5 | 0.03 | 97.3 | - | 385 |
| Windy Bay Shallow | 3797 | ASRP | 9/17/97 | - | 8.1 | 12 | 4.7 | 9.3 | 16.98 | 7.23 | 47.6 | 0.03 | 97.2 | - | 385 |
| Windy Bay Shallow | 3797 | ASRP | 9/17/97 | - | 8.1 | 11 | 5.7 | 9.31 | 16.96 | 7.22 | 47.6 | 0.03 | 97.2 | - | 385 |
| Windy Bay Shallow | 3797 | ASRP | 9/17/97 | - | 8.1 | 10 | 6.7 | 9.29 | 16.91 | 7.19 | 47.3 | 0.03 | 97 | - | 385 |
| Windy Bay Shallow | 3797 | ASRP | 9/17/97 | - | 8.1 | 9 | 7.7 | 9.28 | 16.81 | 7.18 | 47.2 | 0.03 | 96.8 | - | 385 |
| Windy Bay Shallow | 3797 | ASRP | 9/17/97 | - | 8.1 | 8 | 8.7 | 9.29 | 16.75 | 7.15 | 47.1 | 0.03 | 96.8 | - | 385 |
| Windy Bay Shallow | 3797 | ASRP | 9/17/97 | - | 8.1 | 7 | 9.7 | 9.31 | 16.58 | 7.13 | 46.5 | 0.03 | 96.5 | - | 385 |
| Windy Bay Shallow | 3797 | ASRP | 9/17/97 | - | 8.1 | 6 | 10.7 | 9.33 | 16.52 | 7.1 | 46.3 | 0.03 | 96.6 | - | 385 |
| Windy Bay Shallow | 3797 | ASRP | 9/17/97 | - | 8.1 | 5 | 11.7 | 9.31 | 16.48 | 7.07 | 46.1 | 0.03 | 96.3 | - | 386 |
| Windy Bay Shallow | 3797 | ASRP | 9/17/97 | - | 8.1 | 4 | 12.7 | 9.3 | 16.38 | 7.05 | 45.9 | 0.03 | 96 | - | 386 |
| Windy Bay Shallow | 3797 | ASRP | 9/17/97 | - | 8.1 | 3 | 13.7 | 9.24 | 16.04 | 7 | 45.6 | 0.03 | 94.7 | - | 387 |
| Windy Bay Shallow | 3797 | ASRP | 9/17/97 | - | 8.1 | 2 | 14.7 | 9.23 | 15.25 | 6.96 | 43.7 | 0.03 | 93 | - | 388 |
| Windy Bay Shallow | 3797 | ASRP | 9/17/97 | - | 8.1 | 1 | 15.7 | 9.13 | 15.04 | 6.94 | 43.9 | 0.03 | 91.8 | - | 388 |
| Windy Bay Shallow | 3997 | ASRA | 9/29/97 | - | 7.5 | 11 | 0.3 | 9.65 | 14.71 | 7.17 | 46.5 | 0.03 | 96.1 | - | 448 |
| Windy Bay Shallow | 3997 | ASRA | 9/29/97 | - | 7.5 | 10 | 2 | 9.62 | 14.67 | 7.18 | 46.6 | 0.03 | 95.7 | - | 447 |
| Windy Bay Shallow | 3997 | ASRA | 9/29/97 | - | 7.5 | 9 | 3.5 | 9.61 | 14.64 | 7.17 | 46.6 | 0.03 | 95.5 | - | 448 |
| Windy Bay Shallow | 3997 | ASRA | 9/29/97 | - | 7.5 | 8 | 5 | 9.59 | 14.61 | 7.17 | 46.6 | 0.03 | 95.3 | - | 448 |
| Windy Bay Shallow | 3997 | ASRA | 9/29/97 | - | 7.5 | 7 | 6.5 | 9.55 | 14.54 | 7.16 | 46.9 | 0.03 | 94.8 | - | 448 |
| Windy Bay Shallow | 3997 | ASRA | 9/29/97 | - | 7.5 | 6 | 8 | 9.54 | 14.52 | 7.15 | 46.9 | 0.03 | 94.7 | - | 448 |
| Windy Bay Shallow | 3997 | ASRA | 9/29/97 | - | 7.5 | 5 | 9.5 | 9.5 | 14.44 | 7.15 | 46.5 | 0.03 | 94 | - | 448 |
| Windy Bay Shallow | 3997 | ASRA | 9/29/97 | - | 7.5 | 4 | 11 | 9.52 | 14.41 | 7.15 | 46.9 | 0.03 | 94.2 | - | 448 |
| Windy Bay Shallow | 3997 | ASRA | 9/29/97 | - | 7.5 | 3 | 12.5 | 9.47 | 14.27 | 7.15 | 46.6 | 0.03 | 93.7 | - | 447 |
| Windy Bay Shallow | 3997 | ASRA | 9/29/97 | - | 7.5 | 2 | 14 | 9.52 | 14.24 | 7.15 | 46.9 | 0.03 | 93.8 | - | 447 |
| Windy Bay Shallow | 3997 | ASRA | 9/29/97 | - | 7.5 | 1 | 15.2 | 9.48 | 14.16 | 7.15 | 46.8 | 0.03 | 93.2 | - | 447 |
| Windy Bay Shallow | 4297 | DBAS | 10/21/97 | - | 6.5 | 16 | 0.3 | 10.06 | 12.32 | 7.24 | 49.9 | 0.03 | 93 | - | 387 |
| Windy Bay Shallow | 4297 | DBAS | 10/21/97 | - | 6.5 | 15 | 1 | 10.07 | 12.33 | 7.25 | 49.8 | 0.03 | 93.1 | - | 387 |
| Windy Bay Shallow | 4297 | DBAS | 10/21/97 | - | 6.5 | 14 | 2 | 10.05 | 12.33 | 7.25 | 49.8 | 0.03 | 93 | - | 387 |
| Windy Bay Shallow | 4297 | DBAS | 10/21/97 | - | 6.5 | 13 | 3 | 10.05 | 12.33 | 7.24 | 49.9 | 0.03 | 93 | - | 388 |
| Windy Bay Shallow | 4297 | DBAS | 10/21/97 | - | 6.5 | 12 | 4 | 10.06 | 12.32 | 7.24 | 49.9 | 0.03 | 93 | - | 387 |
| Windy Bay Shallow | 4297 | DBAS | 10/21/97 | - | 6.5 | 11 | 5 | 10.05 | 12.33 | 7.23 | 50 | 0.03 | 93 | - | 387 |
| Windy Bay Shallow | 4297 | DBAS | 10/21/97 | - | 6.5 | 10 | 6 | 10.05 | 12.33 | 7.21 | 49.9 | 0.03 | 93 | - | 388 |
| Windy Bay Shallow | 4297 | DBAS | 10/21/97 | - | 6.5 | 9 | 7 | 10.05 | 12.33 | 7.2 | 49.9 | 0.03 | 93 | - | 388 |
| Windy Bay Shallow | 4297 | DBAS | 10/21/97 | - | 6.5 | 8 | 8 | 10.04 | 12.33 | 7.19 | 49.8 | 0.03 | 93 | - | 389 |
| Windy Bay Shallow | 4297 | DBAS | 10/21/97 | - | 6.5 | 7 | 9 | 10.06 | 12.32 | 7.18 | 49.9 | 0.03 | 93 | - | 389 |
| Windy Bay Shallow | 4297 | DBAS | 10/21/97 | - | 6.5 | 6 | 10 | 10.07 | 12.32 | 7.15 | 49.9 | 0.03 | 93.1 | - | 390 |
| Windy Bay Shallow | 4297 | DBAS | 10/21/97 | - | 6.5 | 5 | 11 | 10.07 | 12.33 | 7.16 | 49.9 | 0.03 | 93.1 | - | 389 |
| Windy Bay Shallow | 4297 | DBAS | 10/21/97 | - | 6.5 | 4 | 12 | 10.08 | 12.32 | 7.13 | 49.9 | 0.03 | 93.2 | - | 390 |
| Windy Bay Shallow | 4297 | DBAS | 10/21/97 | - | 6.5 | 3 | 13 | 10.09 | 12.33 | 7.12 | 49.9 | 0.03 | 93.3 | - | 391 |
| Windy Bay Shallow | 4297 | DBAS | 10/21/97 | - | 6.5 | 2 | 14 | 10.1 | 12.32 | 7.1 | 49.9 | 0.03 | 93.3 | - | 391 |
| Windy Bay Shallow | 4297 | DBAS | 10/21/97 | - | 6.5 | 1 | 15 | 10.11 | 12.3 | 7.06 | 50 | 0.03 | 93.5 | - | 392 |

| | | | | | | | | | | | | | | | |
|-------------------|------|------|---------|---|-----|----|------|-------|-------|------|------|------|------|-----|-----|
| Windy Bay Shallow | 4497 | DBAS | 11/4/97 | - | 5.8 | 11 | 0.4 | 10.55 | 10.17 | 7.05 | 47.6 | 0.03 | 93 | 57 | 409 |
| Windy Bay Shallow | 4497 | DBAS | 11/4/97 | - | 5.8 | 10 | 1.7 | 10.53 | 9.89 | 7.14 | 47.7 | 0.03 | 92.2 | 105 | 406 |
| Windy Bay Shallow | 4497 | DBAS | 11/4/97 | - | 5.8 | 9 | 3.2 | 10.53 | 9.78 | 7.1 | 48.2 | 0.03 | 91.9 | 144 | 408 |
| Windy Bay Shallow | 4497 | DBAS | 11/4/97 | - | 5.8 | 8 | 4.7 | 10.53 | 9.74 | 7.12 | 48.6 | 0.03 | 91.8 | 117 | 407 |
| Windy Bay Shallow | 4497 | DBAS | 11/4/97 | - | 5.8 | 7 | 6.2 | 10.51 | 9.66 | 7.14 | 49.1 | 0.03 | 91.5 | 141 | 406 |
| Windy Bay Shallow | 4497 | DBAS | 11/4/97 | - | 5.8 | 6 | 7.7 | 10.52 | 9.55 | 7.1 | 49.7 | 0.03 | 91.4 | 134 | 408 |
| Windy Bay Shallow | 4497 | DBAS | 11/4/97 | - | 5.8 | 5 | 9.2 | 10.55 | 9.51 | 7.12 | 49.8 | 0.03 | 91.5 | 100 | 407 |
| Windy Bay Shallow | 4497 | DBAS | 11/4/97 | - | 5.8 | 4 | 10.7 | 10.56 | 9.46 | 7.09 | 50 | 0.03 | 91.5 | 138 | 408 |
| Windy Bay Shallow | 4497 | DBAS | 11/4/97 | - | 5.8 | 3 | 12.2 | 10.49 | 9.42 | 7.09 | 50.2 | 0.03 | 90.8 | 152 | 408 |
| Windy Bay Shallow | 4497 | DBAS | 11/4/97 | - | 5.8 | 2 | 13.7 | 10.53 | 9.33 | 7.08 | 50.2 | 0.03 | 90.9 | 115 | 409 |
| Windy Bay Shallow | 4497 | DBAS | 11/4/97 | - | 5.8 | 1 | 15.2 | 10.46 | 9.33 | 7.09 | 50.3 | 0.03 | 90.3 | 601 | 409 |

| Location | Phase | Samplers | Date | Time | Secchi (m) | Sequence | Depth (m) | Dissolved Oxygen (mg/L) | Temperature (C) | pH | Conductivity (μs/cm) | TDS | Saturated Dissolved Oxygen | Stabilization Time | Redox |
|----------------|-------|----------|---------|------|------------|----------|-----------|-------------------------|-----------------|------|----------------------|------|----------------------------|--------------------|-------|
| Windy Bay Deep | 1597 | ASSS | 4/18/97 | - | 1.6 | 27 | 0.4 | 12.89 | 5.6 | 7.38 | 43.4 | 0.03 | ***** | - | 385 |
| Windy Bay Deep | 1597 | ASSS | 4/18/97 | - | 1.6 | 26 | 1 | 12.89 | 5.6 | 7.36 | 43.5 | 0.03 | ***** | - | 387 |
| Windy Bay Deep | 1597 | ASSS | 4/18/97 | - | 1.6 | 25 | 2 | 12.95 | 5.57 | 7.37 | 43.4 | 0.03 | ***** | - | 387 |
| Windy Bay Deep | 1597 | ASSS | 4/18/97 | - | 1.6 | 24 | 3.2 | 12.96 | 5.54 | 7.37 | 43.5 | 0.03 | ***** | - | 387 |
| Windy Bay Deep | 1597 | ASSS | 4/18/97 | - | 1.6 | 23 | 4.2 | 12.77 | 5.54 | 7.36 | 43.5 | 0.03 | ***** | - | 386 |
| Windy Bay Deep | 1597 | ASSS | 4/18/97 | - | 1.6 | 22 | 5.5 | 12.88 | 5.51 | 7.35 | 43.6 | 0.03 | ***** | - | 387 |
| Windy Bay Deep | 1597 | ASSS | 4/18/97 | - | 1.6 | 21 | 6.7 | 12.83 | 5.5 | 7.35 | 43.5 | 0.03 | ***** | - | 387 |
| Windy Bay Deep | 1597 | ASSS | 4/18/97 | - | 1.6 | 20 | 7.8 | 12.98 | 5.39 | 7.34 | 43.6 | 0.03 | ***** | - | 387 |
| Windy Bay Deep | 1597 | ASSS | 4/18/97 | - | 1.6 | 19 | 9 | 12.7 | 5.34 | 7.33 | 43.5 | 0.03 | ***** | - | 388 |
| Windy Bay Deep | 1597 | ASSS | 4/18/97 | - | 1.6 | 18 | 10.1 | 12.87 | 5.32 | 7.33 | 43.5 | 0.03 | ***** | - | 387 |
| Windy Bay Deep | 1597 | ASSS | 4/18/97 | - | 1.6 | 17 | 11.4 | 12.92 | 5.3 | 7.33 | 43.5 | 0.03 | ***** | - | 388 |
| Windy Bay Deep | 1597 | ASSS | 4/18/97 | - | 1.6 | 16 | 12.8 | 12.72 | 5.24 | 7.33 | 43.5 | 0.03 | ***** | - | 388 |
| Windy Bay Deep | 1597 | ASSS | 4/18/97 | - | 1.6 | 15 | 14 | 12.75 | 5.22 | 7.32 | 43.4 | 0.03 | ***** | - | 388 |
| Windy Bay Deep | 1597 | ASSS | 4/18/97 | - | 1.6 | 14 | 15.3 | 12.86 | 5.17 | 7.32 | 43.3 | 0.03 | ***** | - | 388 |
| Windy Bay Deep | 1597 | ASSS | 4/18/97 | - | 1.6 | 13 | 16.5 | 12.62 | 5.12 | 7.32 | 43.2 | 0.03 | 99 | - | 388 |
| Windy Bay Deep | 1597 | ASSS | 4/18/97 | - | 1.6 | 12 | 17.8 | 12.61 | 5.09 | 7.31 | 43.2 | 0.03 | 99 | - | 389 |
| Windy Bay Deep | 1597 | ASSS | 4/18/97 | - | 1.6 | 11 | 19 | 12.59 | 5.04 | 7.31 | 43.2 | 0.03 | 98.7 | - | 388 |
| Windy Bay Deep | 1597 | ASSS | 4/18/97 | - | 1.6 | 10 | 20.2 | 12.63 | 5.06 | 7.31 | 43.2 | 0.03 | 99 | - | 388 |
| Windy Bay Deep | 1597 | ASSS | 4/18/97 | - | 1.6 | 9 | 21.5 | 12.77 | 4.99 | 7.31 | 43.2 | 0.03 | 99.9 | - | 388 |
| Windy Bay Deep | 1597 | ASSS | 4/18/97 | - | 1.6 | 8 | 22.7 | 12.77 | 4.96 | 7.3 | 43.3 | 0.03 | 99.9 | - | 389 |
| Windy Bay Deep | 1597 | ASSS | 4/18/97 | - | 1.6 | 7 | 24 | 12.84 | 4.74 | 7.31 | 43.9 | 0.03 | 99.9 | - | 388 |
| Windy Bay Deep | 1597 | ASSS | 4/18/97 | - | 1.6 | 6 | 25.3 | 12.7 | 4.73 | 7.3 | 43.9 | 0.03 | 98.8 | - | 389 |
| Windy Bay Deep | 1597 | ASSS | 4/18/97 | - | 1.6 | 5 | 26.5 | 12.79 | 4.74 | 7.3 | 43.9 | 0.03 | 99.5 | - | 388 |
| Windy Bay Deep | 1597 | ASSS | 4/18/97 | - | 1.6 | 4 | 27.9 | 12.85 | 4.74 | 7.31 | 43.9 | 0.03 | 99.7 | - | 387 |
| Windy Bay Deep | 1597 | ASSS | 4/18/97 | - | 1.6 | 3 | 29.1 | 12.85 | 4.71 | 7.3 | 43.9 | 0.03 | 99.8 | - | 388 |
| Windy Bay Deep | 1597 | ASSS | 4/18/97 | - | 1.6 | 2 | 30.5 | 12.71 | 4.71 | 7.3 | 44 | 0.03 | 98.8 | - | 388 |
| Windy Bay Deep | 1597 | ASSS | 4/18/97 | - | 1.6 | 1 | 31.8 | 12.93 | 4.74 | 7.31 | 43.9 | 0.03 | ***** | - | 387 |
| Windy Bay Deep | 1997 | DBSS | 5/16/97 | - | 1.9 | 19 | 0.2 | 11.55 | 12.53 | 7.06 | 36.7 | 0.02 | 107.6 | - | 413 |

| | | | | | | | | | | | | | | | |
|----------------|------|------|---------|---|-----|----|------|-------|-------|------|------|------|-------|---|-----|
| Windy Bay Deep | 1997 | DBSS | 5/16/97 | - | 1.9 | 18 | 1.8 | 11.42 | 10.91 | 7.05 | 34.6 | 0.02 | 102.4 | - | 417 |
| Windy Bay Deep | 1997 | DBSS | 5/16/97 | - | 1.9 | 17 | 3.8 | 11.3 | 9.97 | 7.01 | 34.4 | 0.02 | 99.2 | - | 419 |
| Windy Bay Deep | 1997 | DBSS | 5/16/97 | - | 1.9 | 16 | 5.8 | 11.31 | 9.48 | 7 | 35 | 0.02 | 98.2 | - | 419 |
| Windy Bay Deep | 1997 | DBSS | 5/16/97 | - | 1.9 | 15 | 7.8 | 11.3 | 9.09 | 6.98 | 35.3 | 0.02 | 97.2 | - | 420 |
| Windy Bay Deep | 1997 | DBSS | 5/16/97 | - | 1.9 | 14 | 9.8 | 11.44 | 8.3 | 6.98 | 37.5 | 0.02 | 96.5 | - | 420 |
| Windy Bay Deep | 1997 | DBSS | 5/16/97 | - | 1.9 | 13 | 11.8 | 11.49 | 7.66 | 6.97 | 39.6 | 0.03 | 95.4 | - | 421 |
| Windy Bay Deep | 1997 | DBSS | 5/16/97 | - | 1.9 | 12 | 13.8 | 11.53 | 7.27 | 6.96 | 40.2 | 0.03 | 94.8 | - | 421 |
| Windy Bay Deep | 1997 | DBSS | 5/16/97 | - | 1.9 | 11 | 15.8 | 11.54 | 7.12 | 6.96 | 40.6 | 0.03 | 94.6 | - | 421 |
| Windy Bay Deep | 1997 | DBSS | 5/16/97 | - | 1.9 | 10 | 17.8 | 11.55 | 7.07 | 6.96 | 40.9 | 0.03 | 94.5 | - | 420 |
| Windy Bay Deep | 1997 | DBSS | 5/16/97 | - | 1.9 | 9 | 19.8 | 11.63 | 6.79 | 6.95 | 42.7 | 0.03 | 94.5 | - | 420 |
| Windy Bay Deep | 1997 | DBSS | 5/16/97 | - | 1.9 | 8 | 21.8 | 11.65 | 6.66 | 6.95 | 43.3 | 0.03 | 94.4 | - | 420 |
| Windy Bay Deep | 1997 | DBSS | 5/16/97 | - | 1.9 | 7 | 23.8 | 11.74 | 6.33 | 6.94 | 45.1 | 0.03 | 94.3 | - | 419 |
| Windy Bay Deep | 1997 | DBSS | 5/16/97 | - | 1.9 | 6 | 25.8 | 11.71 | 6.33 | 6.94 | 45.3 | 0.03 | 94.1 | - | 419 |
| Windy Bay Deep | 1997 | DBSS | 5/16/97 | - | 1.9 | 5 | 27.8 | 11.72 | 6.25 | 6.93 | 45.8 | 0.03 | 93.8 | - | 419 |
| Windy Bay Deep | 1997 | DBSS | 5/16/97 | - | 1.9 | 4 | 29.8 | 11.63 | 6.17 | 6.92 | 46 | 0.03 | 93 | - | 418 |
| Windy Bay Deep | 1997 | DBSS | 5/16/97 | - | 1.9 | 3 | 31.8 | 11.6 | 5.89 | 6.9 | 47 | 0.03 | 92.1 | - | 418 |
| Windy Bay Deep | 1997 | DBSS | 5/16/97 | - | 1.9 | 2 | 33.8 | 11.57 | 5.75 | 6.91 | 47.2 | 0.03 | 91.6 | - | 421 |
| Windy Bay Deep | 1997 | DBSS | 5/16/97 | - | 1.9 | 1 | 35.8 | 11.52 | 5.75 | 6.91 | 47.5 | 0.03 | 91.1 | - | 425 |
| | | | | | | | | | | | | | | | |
| Windy Bay Deep | 2197 | DBSS | 5/29/97 | - | 1.5 | 19 | 0.2 | 10.79 | 15.64 | 7.04 | 31.2 | 0.02 | 107.9 | - | 385 |
| Windy Bay Deep | 2197 | DBSS | 5/29/97 | - | 1.5 | 18 | 1 | 10.79 | 15.59 | 7.01 | 31.3 | 0.02 | 107.8 | - | 386 |
| Windy Bay Deep | 2197 | DBSS | 5/29/97 | - | 1.5 | 17 | 3 | 10.89 | 14.01 | 6.95 | 31.2 | 0.02 | 105.1 | - | 390 |
| Windy Bay Deep | 2197 | DBSS | 5/29/97 | - | 1.5 | 16 | 5 | 10.49 | 11.31 | 6.9 | 30.6 | 0.02 | 95.3 | - | 394 |
| Windy Bay Deep | 2197 | DBSS | 5/29/97 | - | 1.5 | 15 | 7 | 10.51 | 10.33 | 6.92 | 29.1 | 0.02 | 93.3 | - | 393 |
| Windy Bay Deep | 2197 | DBSS | 5/29/97 | - | 1.5 | 14 | 9 | 10.6 | 9.99 | 6.92 | 28.2 | 0.02 | 93.3 | - | 392 |
| Windy Bay Deep | 2197 | DBSS | 5/29/97 | - | 1.5 | 13 | 11.1 | 10.72 | 9.42 | 6.92 | 29.4 | 0.02 | 93.1 | - | 393 |
| Windy Bay Deep | 2197 | DBSS | 5/29/97 | - | 1.5 | 12 | 12.9 | 10.8 | 8.99 | 6.93 | 29.1 | 0.02 | 92.7 | - | 393 |
| Windy Bay Deep | 2197 | DBSS | 5/29/97 | - | 1.5 | 11 | 14.9 | 10.88 | 8.48 | 6.92 | 31.1 | 0.02 | 92.3 | - | 393 |
| Windy Bay Deep | 2197 | DBSS | 5/29/97 | - | 1.5 | 10 | 17 | 11.03 | 7.91 | 6.91 | 34.3 | 0.02 | 92.3 | - | 394 |
| Windy Bay Deep | 2197 | DBSS | 5/29/97 | - | 1.5 | 9 | 19 | 11.14 | 7.33 | 6.89 | 37.4 | 0.02 | 91.9 | - | 395 |
| Windy Bay Deep | 2197 | DBSS | 5/29/97 | - | 1.5 | 8 | 21 | 11.05 | 7.1 | 6.88 | 38.4 | 0.02 | 90.7 | - | 395 |
| Windy Bay Deep | 2197 | DBSS | 5/29/97 | - | 1.5 | 7 | 23 | 11.13 | 6.61 | 6.87 | 40.4 | 0.03 | 90.2 | - | 396 |
| Windy Bay Deep | 2197 | DBSS | 5/29/97 | - | 1.5 | 6 | 24.9 | 11.12 | 6.33 | 6.86 | 41.5 | 0.03 | 89.5 | - | 396 |
| Windy Bay Deep | 2197 | DBSS | 5/29/97 | - | 1.5 | 5 | 27.1 | 11.03 | 6.08 | 6.85 | 42.5 | 0.03 | 88.2 | - | 397 |
| Windy Bay Deep | 2197 | DBSS | 5/29/97 | - | 1.5 | 4 | 28.9 | 11.03 | 5.97 | 6.85 | 42.8 | 0.03 | 87.9 | - | 397 |
| Windy Bay Deep | 2197 | DBSS | 5/29/97 | - | 1.5 | 3 | 30.9 | 10.89 | 5.87 | 6.84 | 43.3 | 0.03 | 86.6 | - | 398 |
| Windy Bay Deep | 2197 | DBSS | 5/29/97 | - | 1.5 | 2 | 33.1 | 10.89 | 5.84 | 6.85 | 43.4 | 0.03 | 86.4 | - | 398 |
| Windy Bay Deep | 2197 | DBSS | 5/29/97 | - | 1.5 | 1 | 35 | 10.81 | 5.9 | 6.85 | 43.4 | 0.03 | 86.1 | - | 398 |
| | | | | | | | | | | | | | | | |
| Windy Bay Deep | 2397 | DBAS | 6/11/97 | - | 2 | 17 | 0.8 | 10.58 | 14.84 | 6.97 | 37 | 0.02 | 104.4 | - | 422 |
| Windy Bay Deep | 2397 | DBAS | 6/11/97 | - | 2 | 16 | 2.8 | 10.68 | 13.55 | 6.94 | 35.7 | 0.02 | 102.6 | - | 424 |
| Windy Bay Deep | 2397 | DBAS | 6/11/97 | - | 2 | 15 | 4.8 | 10.67 | 10.86 | 6.95 | 31.8 | 0.02 | 96.2 | - | 425 |
| Windy Bay Deep | 2397 | DBAS | 6/11/97 | - | 2 | 14 | 6.9 | 10.7 | 10.12 | 6.95 | 30.1 | 0.02 | 94.8 | - | 424 |
| Windy Bay Deep | 2397 | DBAS | 6/11/97 | - | 2 | 13 | 8.8 | 10.61 | 9.91 | 6.94 | 30.1 | 0.02 | 93.5 | - | 425 |

| | | | | | | | | | | | | | | | |
|----------------|------|------|---------|---|-----|----|------|-------|-------|------|------|------|-------|---|-----|
| Windy Bay Deep | 2397 | DBAS | 6/11/97 | - | 2 | 12 | 10.8 | 10.67 | 9.2 | 6.94 | 31.8 | 0.02 | 92.5 | - | 425 |
| Windy Bay Deep | 2397 | DBAS | 6/11/97 | - | 2 | 11 | 12.8 | 10.66 | 9.02 | 6.93 | 33.2 | 0.02 | 92 | - | 425 |
| Windy Bay Deep | 2397 | DBAS | 6/11/97 | - | 2 | 10 | 14.8 | 10.67 | 8.84 | 6.93 | 33.9 | 0.02 | 91.7 | - | 425 |
| Windy Bay Deep | 2397 | DBAS | 6/11/97 | - | 2 | 9 | 16.7 | 10.67 | 8.58 | 6.92 | 35.2 | 0.02 | 91.2 | - | 425 |
| Windy Bay Deep | 2397 | DBAS | 6/11/97 | - | 2 | 8 | 18.9 | 10.75 | 7.86 | 6.91 | 38.3 | 0.02 | 90.3 | - | 426 |
| Windy Bay Deep | 2397 | DBAS | 6/11/97 | - | 2 | 7 | 20.7 | 10.81 | 6.91 | 6.89 | 42.8 | 0.03 | 88.6 | - | 427 |
| Windy Bay Deep | 2397 | DBAS | 6/11/97 | - | 2 | 6 | 22.6 | 10.81 | 6.76 | 6.89 | 43.7 | 0.03 | 88.2 | - | 427 |
| Windy Bay Deep | 2397 | DBAS | 6/11/97 | - | 2 | 5 | 24.8 | 10.82 | 6.61 | 6.89 | 44.3 | 0.03 | 88 | - | 426 |
| Windy Bay Deep | 2397 | DBAS | 6/11/97 | - | 2 | 4 | 26.8 | 10.85 | 6.51 | 6.88 | 44.7 | 0.03 | 88 | - | 426 |
| Windy Bay Deep | 2397 | DBAS | 6/11/97 | - | 2 | 3 | 28.7 | 10.92 | 6.33 | 6.88 | 45.4 | 0.03 | 88.2 | - | 426 |
| Windy Bay Deep | 2397 | DBAS | 6/11/97 | - | 2 | 2 | 30.5 | 10.76 | 6.18 | 6.88 | 46.2 | 0.03 | 86.4 | - | 425 |
| Windy Bay Deep | 2397 | DBAS | 6/11/97 | - | 2 | 1 | 32.4 | 10.85 | 5.98 | 6.87 | 47.1 | 0.03 | 86.7 | - | 426 |
| | | | | | | | | | | | | | | | |
| Windy Bay Deep | 2597 | DBSS | 6/26/97 | - | 2.8 | 16 | 0.3 | 10.75 | 13.52 | 7.13 | 35 | 0.02 | 102.9 | - | 435 |
| Windy Bay Deep | 2597 | DBSS | 6/26/97 | - | 2.8 | 15 | 1.2 | 10.74 | 13.52 | 7.12 | 35 | 0.02 | 102.8 | - | 436 |
| Windy Bay Deep | 2597 | DBSS | 6/26/97 | - | 2.8 | 14 | 3.3 | 10.76 | 13.44 | 7.08 | 34.9 | 0.02 | 102.8 | - | 437 |
| Windy Bay Deep | 2597 | DBSS | 6/26/97 | - | 2.8 | 13 | 5.3 | 10.79 | 12.84 | 7.05 | 34.5 | 0.02 | 101.6 | - | 438 |
| Windy Bay Deep | 2597 | DBSS | 6/26/97 | - | 2.8 | 12 | 7.4 | 10.78 | 12.14 | 7.05 | 33.5 | 0.02 | 100 | - | 438 |
| Windy Bay Deep | 2597 | DBSS | 6/26/97 | - | 2.8 | 11 | 9.4 | 10.7 | 11.99 | 7.02 | 33.2 | 0.02 | 99 | - | 437 |
| Windy Bay Deep | 2597 | DBSS | 6/26/97 | - | 2.8 | 10 | 11.4 | 10.74 | 11.92 | 7 | 33.1 | 0.02 | 99.2 | - | 437 |
| Windy Bay Deep | 2597 | DBSS | 6/26/97 | - | 2.8 | 9 | 13.4 | 10.77 | 11.27 | 6.98 | 33.1 | 0.02 | 98 | - | 437 |
| Windy Bay Deep | 2597 | DBSS | 6/26/97 | - | 2.8 | 8 | 15.3 | 10.75 | 10.79 | 6.96 | 33 | 0.02 | 96.7 | - | 438 |
| Windy Bay Deep | 2597 | DBSS | 6/26/97 | - | 2.8 | 7 | 17.4 | 10.64 | 9.37 | 6.92 | 34.9 | 0.02 | 92.5 | - | 439 |
| Windy Bay Deep | 2597 | DBSS | 6/26/97 | - | 2.8 | 6 | 19.4 | 10.66 | 7.47 | 6.9 | 39.3 | 0.03 | 88.5 | - | 441 |
| Windy Bay Deep | 2597 | DBSS | 6/26/97 | - | 2.8 | 5 | 21.2 | 10.65 | 7.27 | 6.9 | 40.2 | 0.03 | 87.9 | - | 440 |
| Windy Bay Deep | 2597 | DBSS | 6/26/97 | - | 2.8 | 4 | 23.3 | 10.67 | 6.73 | 6.9 | 42.3 | 0.03 | 87 | - | 440 |
| Windy Bay Deep | 2597 | DBSS | 6/26/97 | - | 2.8 | 3 | 25.3 | 10.71 | 6.56 | 6.9 | 43 | 0.03 | 86.8 | - | 439 |
| Windy Bay Deep | 2597 | DBSS | 6/26/97 | - | 2.8 | 2 | 27.3 | 10.62 | 6.23 | 6.91 | 44.4 | 0.03 | 85.5 | - | 438 |
| Windy Bay Deep | 2597 | DBSS | 6/26/97 | - | 2.8 | 1 | 29.2 | 10.67 | 6.25 | 6.93 | 44.4 | 0.03 | 85.9 | - | 437 |
| | | | | | | | | | | | | | | | |
| Windy Bay Deep | 2797 | DBSS | 7/9/97 | - | 4.1 | 16 | 0.3 | 10.09 | 17.22 | 7.16 | 38.2 | 0.02 | ***** | - | 421 |
| Windy Bay Deep | 2797 | DBSS | 7/9/97 | - | 4.1 | 15 | 1 | 10.11 | 17.17 | 7.15 | 38.1 | 0.02 | ***** | - | 421 |
| Windy Bay Deep | 2797 | DBSS | 7/9/97 | - | 4.1 | 14 | 3 | 10.19 | 16.89 | 7.06 | 37.9 | 0.02 | ***** | - | 425 |
| Windy Bay Deep | 2797 | DBSS | 7/9/97 | - | 4.1 | 13 | 5 | 10.35 | 15.28 | 7.04 | 36.2 | 0.02 | ***** | - | 426 |
| Windy Bay Deep | 2797 | DBSS | 7/9/97 | - | 4.1 | 12 | 7 | 10.26 | 14.31 | 6.98 | 35.7 | 0.02 | ***** | - | 428 |
| Windy Bay Deep | 2797 | DBSS | 7/9/97 | - | 4.1 | 11 | 9 | 10.18 | 13.32 | 6.93 | 35.2 | 0.02 | 97.9 | - | 429 |
| Windy Bay Deep | 2797 | DBSS | 7/9/97 | - | 4.1 | 10 | 11 | 9.93 | 12.73 | 6.86 | 34.4 | 0.02 | 94.3 | - | 431 |
| Windy Bay Deep | 2797 | DBSS | 7/9/97 | - | 4.1 | 9 | 13 | 9.88 | 11.56 | 6.83 | 34.5 | 0.02 | 91.5 | - | 433 |
| Windy Bay Deep | 2797 | DBSS | 7/9/97 | - | 4.1 | 8 | 15 | 9.83 | 9.32 | 6.78 | 37.1 | 0.02 | 86.2 | - | 435 |
| Windy Bay Deep | 2797 | DBSS | 7/9/97 | - | 4.1 | 7 | 17 | 10.07 | 7.65 | 6.79 | 40.5 | 0.03 | 84.7 | - | 436 |
| Windy Bay Deep | 2797 | DBSS | 7/9/97 | - | 4.1 | 6 | 18.9 | 10.12 | 7.43 | 6.78 | 41 | 0.03 | 84.7 | - | 436 |
| Windy Bay Deep | 2797 | DBSS | 7/9/97 | - | 4.1 | 5 | 20.9 | 10.3 | 7.1 | 6.79 | 41.4 | 0.03 | 85.5 | - | 436 |
| Windy Bay Deep | 2797 | DBSS | 7/9/97 | - | 4.1 | 4 | 23 | 10.31 | 6.79 | 6.79 | 42.7 | 0.03 | 84.8 | - | 436 |
| Windy Bay Deep | 2797 | DBSS | 7/9/97 | - | 4.1 | 3 | 25 | 10.32 | 6.69 | 6.79 | 43.1 | 0.03 | 84.8 | - | 436 |

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|----------------|------|------|---------|---|------|----|------|-------|-------|------|------|------|-------|---|-----|
| Windy Bay Deep | 2797 | DBSS | 7/9/97 | - | 4.1 | 2 | 27 | 10.34 | 6.4 | 6.78 | 44.4 | 0.03 | 84.3 | - | 436 |
| Windy Bay Deep | 2797 | DBSS | 7/9/97 | - | 4.1 | 1 | 29.1 | 10.13 | 6.13 | 6.78 | 45.6 | 0.03 | 82.1 | - | 436 |
| | | | | | | | | | | | | | | | |
| Windy Bay Deep | 2997 | SSJD | 7/24/97 | - | 6.5 | 15 | 0.4 | 9.68 | 20.43 | 7.4 | 38.9 | 0.02 | ***** | - | 417 |
| Windy Bay Deep | 2997 | SSJD | 7/24/97 | - | 6.5 | 14 | 1.5 | 9.88 | 19.74 | 7.38 | 38 | 0.02 | ***** | - | 418 |
| Windy Bay Deep | 2997 | SSJD | 7/24/97 | - | 6.5 | 13 | 5.6 | 10.3 | 17.73 | 7.24 | 35.3 | 0.02 | ***** | - | 423 |
| Windy Bay Deep | 2997 | SSJD | 7/24/97 | - | 6.5 | 12 | 7.6 | 10.39 | 16.87 | 7.14 | 35.4 | 0.02 | ***** | - | 426 |
| Windy Bay Deep | 2997 | SSJD | 7/24/97 | - | 6.5 | 11 | 9.6 | 10.36 | 16.08 | 6.99 | 35.3 | 0.02 | ***** | - | 431 |
| Windy Bay Deep | 2997 | SSJD | 7/24/97 | - | 6.5 | 10 | 11.6 | 9.99 | 14.64 | 6.85 | 34.2 | 0.02 | 97.7 | - | 437 |
| Windy Bay Deep | 2997 | SSJD | 7/24/97 | - | 6.5 | 9 | 13.6 | 9.49 | 13.24 | 6.75 | 33.4 | 0.02 | 90 | - | 441 |
| Windy Bay Deep | 2997 | SSJD | 7/24/97 | - | 6.5 | 8 | 15.6 | 8.99 | 10.54 | 6.69 | 34 | 0.02 | 80.2 | - | 444 |
| Windy Bay Deep | 2997 | SSJD | 7/24/97 | - | 6.5 | 7 | 17.6 | 9.71 | 8.29 | 6.67 | 37 | 0.02 | 82 | - | 446 |
| Windy Bay Deep | 2997 | SSJD | 7/24/97 | - | 6.5 | 6 | 19.6 | 9.92 | 7.28 | 6.67 | 39.2 | 0.03 | 81.7 | - | 446 |
| Windy Bay Deep | 2997 | SSJD | 7/24/97 | - | 6.5 | 5 | 21.6 | 9.99 | 6.87 | 6.66 | 40.4 | 0.03 | 81.4 | - | 447 |
| Windy Bay Deep | 2997 | SSJD | 7/24/97 | - | 6.5 | 4 | 23.6 | 10.1 | 6.66 | 6.66 | 41.1 | 0.03 | 81.8 | - | 447 |
| Windy Bay Deep | 2997 | SSJD | 7/24/97 | - | 6.5 | 3 | 25.5 | 10.09 | 6.51 | 6.66 | 41.5 | 0.03 | 81.5 | - | 446 |
| Windy Bay Deep | 2997 | SSJD | 7/24/97 | - | 6.5 | 2 | 27.7 | 10.07 | 6.31 | 6.66 | 42.2 | 0.03 | 81 | - | 446 |
| Windy Bay Deep | 2997 | SSJD | 7/24/97 | - | 6.5 | 1 | 29.6 | 9.6 | 6.33 | 6.65 | 42.7 | 0.03 | 77.2 | - | 447 |
| | | | | | | | | | | | | | | | |
| Windy Bay Deep | 3197 | DBSS | 8/5/97 | - | 8 | 18 | 0.3 | 8.91 | 24.3 | 7.42 | 42.5 | 0.03 | 105 | - | 371 |
| Windy Bay Deep | 3197 | DBSS | 8/5/97 | - | 8 | 17 | 2.3 | 9.05 | 23.52 | 7.4 | 43.6 | 0.03 | 105.1 | - | 372 |
| Windy Bay Deep | 3197 | DBSS | 8/5/97 | - | 8 | 16 | 4.2 | 9.24 | 22.92 | 7.31 | 43 | 0.03 | 106.1 | - | 375 |
| Windy Bay Deep | 3197 | DBSS | 8/5/97 | - | 8 | 15 | 6.3 | 9.79 | 20.85 | 7.2 | 40 | 0.03 | 108.1 | - | 378 |
| Windy Bay Deep | 3197 | DBSS | 8/5/97 | - | 8 | 14 | 8.3 | 10.19 | 16.78 | 7.03 | 35.7 | 0.02 | 103.5 | - | 385 |
| Windy Bay Deep | 3197 | DBSS | 8/5/97 | - | 8 | 13 | 10.4 | 9.31 | 13.48 | 6.87 | 34.2 | 0.02 | 88 | - | 392 |
| Windy Bay Deep | 3197 | DBSS | 8/5/97 | - | 8 | 12 | 12.3 | 8.86 | 11.15 | 6.84 | 34.7 | 0.02 | 79.6 | - | 394 |
| Windy Bay Deep | 3197 | DBSS | 8/5/97 | - | 8 | 11 | 14.2 | 8.98 | 9.66 | 6.85 | 35.4 | 0.02 | 77.8 | - | 395 |
| Windy Bay Deep | 3197 | DBSS | 8/5/97 | - | 8 | 10 | 16.2 | 9.21 | 8.37 | 6.85 | 37.6 | 0.02 | 77.4 | - | 395 |
| Windy Bay Deep | 3197 | DBSS | 8/5/97 | - | 8 | 9 | 18.3 | 9.66 | 7.5 | 6.87 | 38.7 | 0.02 | 79.5 | - | 395 |
| Windy Bay Deep | 3197 | DBSS | 8/5/97 | - | 8 | 8 | 20.3 | 9.78 | 7.05 | 6.87 | 40.3 | 0.03 | 79.5 | - | 395 |
| Windy Bay Deep | 3197 | DBSS | 8/5/97 | - | 8 | 7 | 22.3 | 9.96 | 6.79 | 6.89 | 40.8 | 0.03 | 80.4 | - | 394 |
| Windy Bay Deep | 3197 | DBSS | 8/5/97 | - | 8 | 6 | 24.2 | 10.08 | 6.57 | 6.89 | 41.3 | 0.03 | 81 | - | 394 |
| Windy Bay Deep | 3197 | DBSS | 8/5/97 | - | 8 | 5 | 26.3 | 10.1 | 6.38 | 6.91 | 42 | 0.03 | 80.7 | - | 394 |
| Windy Bay Deep | 3197 | DBSS | 8/5/97 | - | 8 | 4 | 28.3 | 10 | 6.23 | 6.92 | 42.7 | 0.03 | 79.7 | - | 394 |
| Windy Bay Deep | 3197 | DBSS | 8/5/97 | - | 8 | 3 | 30.3 | 9.74 | 6.26 | 6.93 | 43.2 | 0.03 | 77.7 | - | 394 |
| Windy Bay Deep | 3197 | DBSS | 8/5/97 | - | 8 | 2 | 32.3 | 9.57 | 6.21 | 6.94 | 43.2 | 0.03 | 76.2 | - | 393 |
| Windy Bay Deep | 3197 | DBSS | 8/5/97 | - | 8 | 1 | 34.3 | 9.56 | 6.18 | 6.98 | 44.8 | 0.03 | 76.1 | - | 392 |
| | | | | | | | | | | | | | | | |
| Windy Bay Deep | 3297 | DBSS | 8/13/97 | - | 10.5 | 16 | 0.3 | 8.72 | 22.94 | 7.3 | 41.9 | 0.03 | 100.8 | - | 382 |
| Windy Bay Deep | 3297 | DBSS | 8/13/97 | - | 10.5 | 15 | 1.3 | 8.77 | 22.33 | 7.2 | 42.6 | 0.03 | 100.2 | - | 388 |
| Windy Bay Deep | 3297 | DBSS | 8/13/97 | - | 10.5 | 14 | 3.3 | 8.8 | 22.03 | 7.13 | 43.1 | 0.03 | 100.1 | - | 391 |
| Windy Bay Deep | 3297 | DBSS | 8/13/97 | - | 10.5 | 13 | 5.3 | 8.9 | 21.82 | 7.43 | 42 | 0.03 | 100.7 | - | 384 |
| Windy Bay Deep | 3297 | DBSS | 8/13/97 | - | 10.5 | 12 | 7.3 | 8.87 | 21.61 | 7.31 | 41.5 | 0.03 | 100 | - | 388 |
| Windy Bay Deep | 3297 | DBSS | 8/13/97 | - | 10.5 | 11 | 9.3 | 8.96 | 20.73 | 7.4 | 41.3 | 0.03 | 99.4 | - | 383 |

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|----------------|------|------|---------|---|------|----|------|------|-------|------|------|------|-------|---|-----|
| Windy Bay Deep | 3297 | DBSS | 8/13/97 | - | 10.5 | 10 | 11.3 | 8.86 | 13.82 | 6.78 | 35.3 | 0.02 | 85.6 | - | 408 |
| Windy Bay Deep | 3297 | DBSS | 8/13/97 | - | 10.5 | 9 | 13.5 | 8.82 | 11.59 | 7.2 | 35.9 | 0.02 | 80.5 | - | 399 |
| Windy Bay Deep | 3297 | DBSS | 8/13/97 | - | 10.5 | 8 | 15.4 | 8.47 | 10.68 | 6.75 | 35.9 | 0.02 | 75.7 | - | 411 |
| Windy Bay Deep | 3297 | DBSS | 8/13/97 | - | 10.5 | 7 | 17.4 | 8.57 | 9.04 | 6.76 | 37.3 | 0.02 | 73.7 | - | 411 |
| Windy Bay Deep | 3297 | DBSS | 8/13/97 | - | 10.5 | 6 | 19.3 | 8.84 | 8.18 | 6.77 | 39 | 0.03 | 74.4 | - | 411 |
| Windy Bay Deep | 3297 | DBSS | 8/13/97 | - | 10.5 | 5 | 21.4 | 9.11 | 7.27 | 6.78 | 40.8 | 0.03 | 74.9 | - | 411 |
| Windy Bay Deep | 3297 | DBSS | 8/13/97 | - | 10.5 | 4 | 23.4 | 9.37 | 6.92 | 6.8 | 41.5 | 0.03 | 76.6 | - | 410 |
| Windy Bay Deep | 3297 | DBSS | 8/13/97 | - | 10.5 | 3 | 25.4 | 9.5 | 6.72 | 6.81 | 42.1 | 0.03 | 77.1 | - | 409 |
| Windy Bay Deep | 3297 | DBSS | 8/13/97 | - | 10.5 | 2 | 27.4 | 9.52 | 6.56 | 6.82 | 42.5 | 0.03 | 76.9 | - | 408 |
| Windy Bay Deep | 3297 | DBSS | 8/13/97 | - | 10.5 | 1 | 29.4 | 9.12 | 6.33 | 6.83 | 43.8 | 0.03 | 73.3 | - | 408 |
| | | | | | | | | | | | | | | | |
| Windy Bay Deep | 3497 | DBSS | 8/27/97 | - | 8 | 16 | 0.3 | 9.22 | 20.87 | 7.41 | 47 | 0.03 | 102.6 | - | 372 |
| Windy Bay Deep | 3497 | DBSS | 8/27/97 | - | 8 | 15 | 1.5 | 9.23 | 20.83 | 7.39 | 47.1 | 0.03 | 102.7 | - | 372 |
| Windy Bay Deep | 3497 | DBSS | 8/27/97 | - | 8 | 14 | 3.5 | 9.23 | 20.78 | 7.33 | 46.9 | 0.03 | 102.5 | - | 374 |
| Windy Bay Deep | 3497 | DBSS | 8/27/97 | - | 8 | 13 | 5.4 | 9.24 | 20.67 | 7.26 | 46.8 | 0.03 | 102.4 | - | 375 |
| Windy Bay Deep | 3497 | DBSS | 8/27/97 | - | 8 | 12 | 7.5 | 9.15 | 20.69 | 7.08 | 46.7 | 0.03 | 101.5 | - | 382 |
| Windy Bay Deep | 3497 | DBSS | 8/27/97 | - | 8 | 11 | 9.5 | 9.28 | 15.93 | 6.87 | 38.8 | 0.02 | 93.5 | - | 394 |
| Windy Bay Deep | 3497 | DBSS | 8/27/97 | - | 8 | 10 | 11.5 | 8.91 | 12.38 | 6.82 | 38.3 | 0.02 | 82.9 | - | 397 |
| Windy Bay Deep | 3497 | DBSS | 8/27/97 | - | 8 | 9 | 13.6 | 8.48 | 9.58 | 6.8 | 40.6 | 0.03 | 73.9 | - | 399 |
| Windy Bay Deep | 3497 | DBSS | 8/27/97 | - | 8 | 8 | 15.5 | 9.07 | 7.68 | 6.8 | 43.2 | 0.03 | 75.5 | - | 401 |
| Windy Bay Deep | 3497 | DBSS | 8/27/97 | - | 8 | 7 | 17.2 | 9.43 | 7.07 | 6.83 | 44.3 | 0.03 | 77.4 | - | 400 |
| Windy Bay Deep | 3497 | DBSS | 8/27/97 | - | 8 | 6 | 21.6 | 9.72 | 6.64 | 6.88 | 45.3 | 0.03 | 78.8 | - | 399 |
| Windy Bay Deep | 3497 | DBSS | 8/27/97 | - | 8 | 5 | 23.5 | 9.72 | 6.5 | 6.89 | 45.6 | 0.03 | 78.6 | - | 398 |
| Windy Bay Deep | 3497 | DBSS | 8/27/97 | - | 8 | 4 | 25.6 | 9.71 | 6.38 | 6.9 | 46.1 | 0.03 | 78.2 | - | 398 |
| Windy Bay Deep | 3497 | DBSS | 8/27/97 | - | 8 | 3 | 27.5 | 9.58 | 6.3 | 6.92 | 46.4 | 0.03 | 77 | - | 398 |
| Windy Bay Deep | 3497 | DBSS | 8/27/97 | - | 8 | 2 | 29.5 | 9.47 | 6.28 | 6.96 | 46.5 | 0.03 | 76.2 | - | 397 |
| Windy Bay Deep | 3497 | DBSS | 8/27/97 | - | 8 | 1 | 31.7 | 9.48 | 6.28 | 7.05 | 46.7 | 0.03 | 76.2 | - | 395 |
| | | | | | | | | | | | | | | | |
| Windy Bay Deep | 3797 | ASRP | 9/17/97 | - | 7.5 | 17 | 0.4 | 9.28 | 17.53 | 7.3 | 52 | 0.03 | 98.1 | - | 389 |
| Windy Bay Deep | 3797 | ASRP | 9/17/97 | - | 7.5 | 16 | 2.7 | 9.34 | 17.56 | 7.27 | 52 | 0.03 | 98.6 | - | 390 |
| Windy Bay Deep | 3797 | ASRP | 9/17/97 | - | 7.5 | 15 | 4.7 | 9.22 | 17.51 | 7.22 | 52 | 0.03 | 97.5 | - | 392 |
| Windy Bay Deep | 3797 | ASRP | 9/17/97 | - | 7.5 | 14 | 6.7 | 9.22 | 17.24 | 7.18 | 50.2 | 0.03 | 96.9 | - | 393 |
| Windy Bay Deep | 3797 | ASRP | 9/17/97 | - | 7.5 | 13 | 8.7 | 9.25 | 17.17 | 7.15 | 49.7 | 0.03 | 97.1 | - | 393 |
| Windy Bay Deep | 3797 | ASRP | 9/17/97 | - | 7.5 | 12 | 10.7 | 9.28 | 17.12 | 7.08 | 48.7 | 0.03 | 97.3 | - | 395 |
| Windy Bay Deep | 3797 | ASRP | 9/17/97 | - | 7.5 | 11 | 12.7 | 9.26 | 16.8 | 6.98 | 47.3 | 0.03 | 96.3 | - | 398 |
| Windy Bay Deep | 3797 | ASRP | 9/17/97 | - | 7.5 | 10 | 14.7 | 9.07 | 15.91 | 6.86 | 45 | 0.03 | 92.6 | - | 403 |
| Windy Bay Deep | 3797 | ASRP | 9/17/97 | - | 7.5 | 9 | 16.7 | 8.66 | 12.17 | 6.73 | 40.1 | 0.03 | 81.4 | - | 411 |
| Windy Bay Deep | 3797 | ASRP | 9/17/97 | - | 7.5 | 8 | 18.7 | 8.43 | 10.51 | 6.7 | 41.1 | 0.03 | 76.3 | - | 412 |
| Windy Bay Deep | 3797 | ASRP | 9/17/97 | - | 7.5 | 7 | 20.7 | 8.47 | 9.46 | 6.71 | 41.9 | 0.03 | 74.8 | - | 412 |
| Windy Bay Deep | 3797 | ASRP | 9/17/97 | - | 7.5 | 6 | 22.7 | 8.57 | 8.43 | 6.71 | 42.7 | 0.03 | 73.8 | - | 413 |
| Windy Bay Deep | 3797 | ASRP | 9/17/97 | - | 7.5 | 5 | 24.7 | 8.89 | 7.38 | 6.72 | 43.9 | 0.03 | 74.6 | - | 413 |
| Windy Bay Deep | 3797 | ASRP | 9/17/97 | - | 7.5 | 4 | 26.7 | 9.04 | 7.07 | 6.74 | 44.5 | 0.03 | 75.3 | - | 412 |
| Windy Bay Deep | 3797 | ASRP | 9/17/97 | - | 7.5 | 3 | 28.7 | 9.16 | 6.73 | 6.76 | 45.2 | 0.03 | 75.6 | - | 411 |
| Windy Bay Deep | 3797 | ASRP | 9/17/97 | - | 7.5 | 2 | 30.7 | 9.21 | 6.64 | 6.8 | 45.2 | 0.03 | 75.9 | - | 410 |

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|----------------|------|------|----------|---|-----|----|------|-------|-------|------|------|------|------|-----|-----|
| Windy Bay Deep | 3797 | ASRP | 9/17/97 | - | 7.5 | 1 | 32.7 | 9.23 | 6.64 | 6.84 | 45.2 | 0.03 | 76 | - | 408 |
| | | | | | | | | | | | | | | | |
| Windy Bay Deep | 3997 | ASRA | 9/29/97 | - | 7.5 | 17 | 0.2 | 9.77 | 15.09 | 7.16 | 46.3 | 0.03 | 98.1 | - | 444 |
| Windy Bay Deep | 3997 | ASRA | 9/29/97 | - | 7.5 | 16 | 2 | 9.65 | 15.03 | 7.16 | 46.4 | 0.03 | 96.8 | - | 444 |
| Windy Bay Deep | 3997 | ASRA | 9/29/97 | - | 7.5 | 15 | 4 | 9.6 | 14.96 | 7.15 | 46.2 | 0.03 | 96.2 | - | 444 |
| Windy Bay Deep | 3997 | ASRA | 9/29/97 | - | 7.5 | 14 | 6 | 9.59 | 14.78 | 7.11 | 46.6 | 0.03 | 95.7 | - | 445 |
| Windy Bay Deep | 3997 | ASRA | 9/29/97 | - | 7.5 | 13 | 8 | 9.57 | 14.66 | 7.09 | 46.5 | 0.03 | 95.2 | - | 446 |
| Windy Bay Deep | 3997 | ASRA | 9/29/97 | - | 7.5 | 12 | 10 | 9.57 | 14.66 | 7.07 | 46.6 | 0.03 | 95.2 | - | 446 |
| Windy Bay Deep | 3997 | ASRA | 9/29/97 | - | 7.5 | 11 | 12 | 9.5 | 14.58 | 7.02 | 46.5 | 0.03 | 94.3 | - | 447 |
| Windy Bay Deep | 3997 | ASRA | 9/29/97 | - | 7.5 | 10 | 14 | 9.39 | 14.35 | 6.97 | 45.9 | 0.03 | 92.8 | - | 448 |
| Windy Bay Deep | 3997 | ASRA | 9/29/97 | - | 7.5 | 9 | 16 | 9.34 | 13.92 | 6.94 | 45.4 | 0.03 | 91.4 | - | 449 |
| Windy Bay Deep | 3997 | ASRA | 9/29/97 | - | 7.5 | 8 | 18 | 9.28 | 13.6 | 6.91 | 45 | 0.03 | 90.2 | - | 450 |
| Windy Bay Deep | 3997 | ASRA | 9/29/97 | - | 7.5 | 7 | 20 | 9.23 | 13.3 | 6.85 | 44.7 | 0.03 | 89.1 | - | 451 |
| Windy Bay Deep | 3997 | ASRA | 9/29/97 | - | 7.5 | 6 | 22 | 8.88 | 11.2 | 6.78 | 42.2 | 0.03 | 81.7 | - | 455 |
| Windy Bay Deep | 3997 | ASRA | 9/29/97 | - | 7.5 | 5 | 23.9 | 8.9 | 8.48 | 6.75 | 41.4 | 0.03 | 76.8 | - | 457 |
| Windy Bay Deep | 3997 | ASRA | 9/29/97 | - | 7.5 | 4 | 26 | 8.91 | 7.97 | 6.74 | 41.8 | 0.03 | 75.9 | - | 457 |
| Windy Bay Deep | 3997 | ASRA | 9/29/97 | - | 7.5 | 3 | 28 | 8.94 | 7.6 | 6.76 | 42 | 0.03 | 75.5 | - | 457 |
| Windy Bay Deep | 3997 | ASRA | 9/29/97 | - | 7.5 | 2 | 30 | 8.93 | 7.28 | 6.8 | 42.2 | 0.03 | 74.8 | - | 455 |
| Windy Bay Deep | 3997 | ASRA | 9/29/97 | - | 7.5 | 1 | 31.8 | 9.05 | 7 | 6.83 | 42.6 | 0.03 | 75.3 | - | 454 |
| | | | | | | | | | | | | | | | |
| Windy Bay Deep | 4297 | DBAS | 10/21/97 | - | 7.3 | 16 | 0.3 | 9.92 | 12.28 | 7.14 | 49.7 | 0.03 | 91.7 | - | 386 |
| Windy Bay Deep | 4297 | DBAS | 10/21/97 | - | 7.3 | 15 | 1 | 9.94 | 12.28 | 7.14 | 49.7 | 0.03 | 91.8 | - | 387 |
| Windy Bay Deep | 4297 | DBAS | 10/21/97 | - | 7.3 | 14 | 3 | 9.92 | 12.3 | 7.14 | 49.7 | 0.03 | 91.6 | - | 386 |
| Windy Bay Deep | 4297 | DBAS | 10/21/97 | - | 7.3 | 13 | 5 | 9.91 | 12.3 | 7.12 | 49.7 | 0.03 | 91.5 | - | 387 |
| Windy Bay Deep | 4297 | DBAS | 10/21/97 | - | 7.3 | 12 | 7 | 9.91 | 12.28 | 7.1 | 49.9 | 0.03 | 91.6 | - | 387 |
| Windy Bay Deep | 4297 | DBAS | 10/21/97 | - | 7.3 | 11 | 9 | 9.92 | 12.27 | 7.07 | 49.8 | 0.03 | 91.6 | - | 388 |
| Windy Bay Deep | 4297 | DBAS | 10/21/97 | - | 7.3 | 10 | 11 | 9.91 | 12.27 | 7.03 | 49.7 | 0.03 | 91.5 | - | 388 |
| Windy Bay Deep | 4297 | DBAS | 10/21/97 | - | 7.3 | 9 | 13 | 9.88 | 12.27 | 6.99 | 49.7 | 0.03 | 91.2 | - | 389 |
| Windy Bay Deep | 4297 | DBAS | 10/21/97 | - | 7.3 | 8 | 15 | 9.82 | 12.27 | 6.91 | 49.8 | 0.03 | 90.7 | - | 392 |
| Windy Bay Deep | 4297 | DBAS | 10/21/97 | - | 7.3 | 7 | 17 | 9.74 | 12.18 | 6.8 | 49.8 | 0.03 | 89.7 | - | 395 |
| Windy Bay Deep | 4297 | DBAS | 10/21/97 | - | 7.3 | 6 | 19 | 8.21 | 10.1 | 6.64 | 48.8 | 0.03 | 72.1 | - | 401 |
| Windy Bay Deep | 4297 | DBAS | 10/21/97 | - | 7.3 | 5 | 21 | 8.3 | 7.99 | 6.64 | 47.5 | 0.03 | 69.2 | - | 402 |
| Windy Bay Deep | 4297 | DBAS | 10/21/97 | - | 7.3 | 4 | 23 | 8.4 | 7.35 | 6.64 | 47.5 | 0.03 | 69 | - | 402 |
| Windy Bay Deep | 4297 | DBAS | 10/21/97 | - | 7.3 | 3 | 25 | 8.27 | 6.96 | 6.65 | 47.6 | 0.03 | 67.3 | - | 402 |
| Windy Bay Deep | 4297 | DBAS | 10/21/97 | - | 7.3 | 2 | 27 | 8.28 | 6.91 | 6.65 | 47.9 | 0.03 | 67.2 | - | 402 |
| Windy Bay Deep | 4297 | DBAS | 10/21/97 | - | 7.3 | 1 | 29.1 | 8.27 | 6.84 | 6.71 | 47.9 | 0.03 | 67 | - | 401 |
| | | | | | | | | | | | | | | | |
| Windy Bay Deep | 4497 | DBAS | 11/4/97 | - | 7 | 16 | 0.6 | 10.6 | 10.33 | 7.11 | 46.8 | 0.03 | 93.7 | 57 | 411 |
| Windy Bay Deep | 4497 | DBAS | 11/4/97 | - | 7 | 15 | 2.8 | 10.56 | 10.23 | 7.1 | 46.9 | 0.03 | 93.1 | 142 | 413 |
| Windy Bay Deep | 4497 | DBAS | 11/4/97 | - | 7 | 14 | 4.8 | 10.5 | 10.22 | 7.11 | 46.9 | 0.03 | 92.6 | 207 | 413 |
| Windy Bay Deep | 4497 | DBAS | 11/4/97 | - | 7 | 13 | 6.8 | 10.43 | 10.07 | 7.09 | 47.1 | 0.03 | 91.6 | 56 | 414 |
| Windy Bay Deep | 4497 | DBAS | 11/4/97 | - | 7 | 12 | 8.8 | 10.46 | 10.07 | 7.08 | 47.1 | 0.03 | 91.9 | 46 | 415 |
| Windy Bay Deep | 4497 | DBAS | 11/4/97 | - | 7 | 11 | 10.8 | 10.45 | 10.09 | 7.09 | 47.2 | 0.03 | 91.9 | 40 | 415 |
| Windy Bay Deep | 4497 | DBAS | 11/4/97 | - | 7 | 10 | 12.8 | 10.46 | 10.07 | 7.09 | 47.2 | 0.03 | 91.9 | 117 | 415 |

| | | | | | | | | | | | | | | | |
|----------------|------|------|---------|---|---|---|------|-------|-------|------|------|------|------|-----|-----|
| Windy Bay Deep | 4497 | DBAS | 11/4/97 | - | 7 | 9 | 14.8 | 10.47 | 10.05 | 7.09 | 47.2 | 0.03 | 92 | 159 | 415 |
| Windy Bay Deep | 4497 | DBAS | 11/4/97 | - | 7 | 8 | 16.8 | 10.42 | 10.04 | 7.08 | 47.4 | 0.03 | 91.5 | 132 | 415 |
| Windy Bay Deep | 4497 | DBAS | 11/4/97 | - | 7 | 7 | 18.8 | 10.44 | 10.04 | 7.08 | 47.3 | 0.03 | 91.7 | 102 | 415 |
| Windy Bay Deep | 4497 | DBAS | 11/4/97 | - | 7 | 6 | 20.8 | 10.45 | 10.02 | 7.07 | 47.3 | 0.03 | 91.7 | 112 | 416 |
| Windy Bay Deep | 4497 | DBAS | 11/4/97 | - | 7 | 5 | 22.8 | 10.43 | 9.97 | 7.07 | 47.5 | 0.03 | 91.5 | 52 | 416 |
| Windy Bay Deep | 4497 | DBAS | 11/4/97 | - | 7 | 4 | 24.8 | 10.39 | 9.91 | 7.04 | 47.7 | 0.03 | 91 | 55 | 417 |
| Windy Bay Deep | 4497 | DBAS | 11/4/97 | - | 7 | 3 | 26.8 | 10.34 | 9.71 | 7.03 | 48.3 | 0.03 | 90.1 | 119 | 418 |
| Windy Bay Deep | 4497 | DBAS | 11/4/97 | - | 7 | 2 | 28.8 | 10.24 | 9.33 | 7.02 | 49.5 | 0.03 | 88.5 | 111 | 419 |
| Windy Bay Deep | 4497 | DBAS | 11/4/97 | - | 7 | 1 | 30.8 | 10.05 | 9.02 | 7.01 | 50 | 0.03 | 86.1 | 631 | 421 |

| Location | Phase | Samplers | Date | Time | Secchi (m) | Sequence | Depth (m) | Dissolved Oxygen (mg/L) | Temperature (C) | pH | Conductivity (µs/cm) | TDS | Saturated Dissolved Oxygen | Stabilization Time | Redox |
|-----------|-------|----------|---------|------|------------|----------|-----------|-------------------------|-----------------|------|----------------------|------|----------------------------|--------------------|-------|
| CDA River | 1597 | ASSS | 4/18/97 | - | 1.8 | 17 | 0.4 | 12.48 | 6.49 | 7.48 | 37.4 | 0.02 | ***** | - | 372 |
| CDA River | 1597 | ASSS | 4/18/97 | - | 1.8 | 16 | 1.4 | 12.52 | 6.33 | 7.46 | 37.4 | 0.02 | ***** | - | 374 |
| CDA River | 1597 | ASSS | 4/18/97 | - | 1.8 | 15 | 2.4 | 12.46 | 6.3 | 7.46 | 37.4 | 0.02 | ***** | - | 374 |
| CDA River | 1597 | ASSS | 4/18/97 | - | 1.8 | 14 | 3.5 | 12.47 | 6.28 | 7.45 | 37.4 | 0.02 | ***** | - | 374 |
| CDA River | 1597 | ASSS | 4/18/97 | - | 1.8 | 13 | 4.6 | 12.42 | 6.28 | 7.44 | 37.4 | 0.02 | ***** | - | 374 |
| CDA River | 1597 | ASSS | 4/18/97 | - | 1.8 | 12 | 5.5 | 12.4 | 6.28 | 7.44 | 37.4 | 0.02 | ***** | - | 374 |
| CDA River | 1597 | ASSS | 4/18/97 | - | 1.8 | 11 | 6.6 | 12.41 | 6.26 | 7.43 | 37.5 | 0.02 | ***** | - | 374 |
| CDA River | 1597 | ASSS | 4/18/97 | - | 1.8 | 10 | 7.8 | 12.39 | 6.25 | 7.43 | 37.4 | 0.02 | ***** | - | 374 |
| CDA River | 1597 | ASSS | 4/18/97 | - | 1.8 | 9 | 8.8 | 12.45 | 6.23 | 7.42 | 37.5 | 0.02 | ***** | - | 374 |
| CDA River | 1597 | ASSS | 4/18/97 | - | 1.8 | 8 | 10 | 12.42 | 6.2 | 7.42 | 37.5 | 0.02 | ***** | - | 374 |
| CDA River | 1597 | ASSS | 4/18/97 | - | 1.8 | 7 | 11.1 | 12.38 | 6.17 | 7.42 | 37.6 | 0.02 | 99.9 | - | 374 |
| CDA River | 1597 | ASSS | 4/18/97 | - | 1.8 | 6 | 12.4 | 12.34 | 6.08 | 7.41 | 38 | 0.02 | 99.3 | - | 374 |
| CDA River | 1597 | ASSS | 4/18/97 | - | 1.8 | 5 | 13.5 | 12.32 | 5.88 | 7.41 | 38.4 | 0.02 | 98.6 | - | 374 |
| CDA River | 1597 | ASSS | 4/18/97 | - | 1.8 | 4 | 14.8 | 12.27 | 5.77 | 7.4 | 38.5 | 0.02 | 98 | - | 375 |
| CDA River | 1597 | ASSS | 4/18/97 | - | 1.8 | 3 | 16 | 12.23 | 5.67 | 7.39 | 38.4 | 0.02 | 97.4 | - | 376 |
| CDA River | 1597 | ASSS | 4/18/97 | - | 1.8 | 2 | 17.2 | 12.19 | 5.59 | 7.39 | 38.3 | 0.02 | 96.9 | - | 380 |
| CDA River | 1597 | ASSS | 4/18/97 | - | 1.8 | 1 | 18.6 | 12.59 | 5.44 | 7.38 | 38.4 | 0.02 | 99.9 | - | 382 |
| CDA River | 1997 | DBSS | 5/16/97 | - | 0.6 | 15 | 0.2 | 10.61 | 14.93 | 6.94 | 32 | 0.02 | 104.3 | - | 390 |
| CDA River | 1997 | DBSS | 5/16/97 | - | 0.6 | 14 | 1.6 | 10.56 | 12.51 | 6.86 | 32 | 0.02 | 98.3 | - | 399 |
| CDA River | 1997 | DBSS | 5/16/97 | - | 0.6 | 13 | 2.7 | 10.43 | 12.37 | 6.84 | 32.1 | 0.02 | 96.8 | - | 401 |
| CDA River | 1997 | DBSS | 5/16/97 | - | 0.6 | 12 | 3.7 | 10.41 | 12.27 | 6.83 | 32.3 | 0.02 | 96.4 | - | 402 |
| CDA River | 1997 | DBSS | 5/16/97 | - | 0.6 | 11 | 4.7 | 10.33 | 12.18 | 6.82 | 32.2 | 0.02 | 95.5 | - | 402 |
| CDA River | 1997 | DBSS | 5/16/97 | - | 0.6 | 10 | 5.7 | 10.25 | 11.91 | 6.82 | 32.4 | 0.02 | 94.1 | - | 404 |
| CDA River | 1997 | DBSS | 5/16/97 | - | 0.6 | 9 | 6.7 | 10.25 | 11.76 | 6.82 | 32.3 | 0.02 | 93.8 | - | 404 |
| CDA River | 1997 | DBSS | 5/16/97 | - | 0.6 | 8 | 7.7 | 10.24 | 11.64 | 6.85 | 32.3 | 0.02 | 93.5 | - | 403 |
| CDA River | 1997 | DBSS | 5/16/97 | - | 0.6 | 7 | 8.7 | 10.33 | 11.31 | 6.93 | 32 | 0.02 | 93.7 | - | 400 |
| CDA River | 1997 | DBSS | 5/16/97 | - | 0.6 | 6 | 9.7 | 10.67 | 10.4 | 6.99 | 31 | 0.02 | 94.6 | - | 396 |
| CDA River | 1997 | DBSS | 5/16/97 | - | 0.6 | 5 | 10.7 | 11.02 | 9.42 | 7.01 | 29.6 | 0.02 | 95.5 | - | 394 |
| CDA River | 1997 | DBSS | 5/16/97 | - | 0.6 | 4 | 11.7 | 11 | 9.06 | 7.01 | 31.9 | 0.02 | 94.5 | - | 394 |
| CDA River | 1997 | DBSS | 5/16/97 | - | 0.6 | 3 | 12.7 | 10.99 | 8.88 | 7.01 | 32.5 | 0.02 | 94 | - | 393 |

| | | | | | | | | | | | | | | | |
|-----------|------|------|---------|---|-----|----|------|-------|-------|------|------|------|-------|---|-----|
| CDA River | 1997 | DBSS | 5/16/97 | - | 0.6 | 2 | 13.7 | 11.02 | 8.77 | 7.01 | 32.9 | 0.02 | 94 | - | 392 |
| CDA River | 1997 | DBSS | 5/16/97 | - | 0.6 | 1 | 14.7 | 10.97 | 8.73 | 7.01 | 33 | 0.02 | 93.5 | - | 395 |
| | | | | | | | | | | | | | | | |
| CDA River | 2197 | DBSS | 5/29/97 | - | 1.7 | 12 | 0.5 | 10.55 | 14.36 | 6.93 | 35.9 | 0.02 | 102.5 | - | 389 |
| CDA River | 2197 | DBSS | 5/29/97 | - | 1.7 | 11 | 1.4 | 10.7 | 13.83 | 6.95 | 35.4 | 0.02 | 102.8 | - | 389 |
| CDA River | 2197 | DBSS | 5/29/97 | - | 1.7 | 10 | 2.3 | 10.71 | 13.67 | 6.94 | 34.6 | 0.02 | 102.5 | - | 390 |
| CDA River | 2197 | DBSS | 5/29/97 | - | 1.7 | 9 | 3.5 | 10.8 | 12.2 | 6.92 | 35.6 | 0.02 | 100.1 | - | 392 |
| CDA River | 2197 | DBSS | 5/29/97 | - | 1.7 | 8 | 4.3 | 10.8 | 12.05 | 6.91 | 35.7 | 0.02 | 99.8 | - | 392 |
| CDA River | 2197 | DBSS | 5/29/97 | - | 1.7 | 7 | 5.4 | 10.8 | 12 | 6.91 | 35.8 | 0.02 | 99.6 | - | 392 |
| CDA River | 2197 | DBSS | 5/29/97 | - | 1.7 | 6 | 6.3 | 10.78 | 11.94 | 6.91 | 35.8 | 0.02 | 99.3 | - | 392 |
| CDA River | 2197 | DBSS | 5/29/97 | - | 1.7 | 5 | 7.3 | 10.77 | 11.92 | 6.91 | 35.8 | 0.02 | 99.2 | - | 392 |
| CDA River | 2197 | DBSS | 5/29/97 | - | 1.7 | 4 | 8.3 | 10.65 | 11.2 | 6.94 | 33.3 | 0.02 | 96.4 | - | 392 |
| CDA River | 2197 | DBSS | 5/29/97 | - | 1.7 | 3 | 9.3 | 10.87 | 9.58 | 7.01 | 27.5 | 0.02 | 94.7 | - | 389 |
| CDA River | 2197 | DBSS | 5/29/97 | - | 1.7 | 2 | 10.3 | 10.87 | 9.33 | 7.02 | 26.8 | 0.02 | 94.2 | - | 390 |
| CDA River | 2197 | DBSS | 5/29/97 | - | 1.7 | 1 | 11.4 | 10.86 | 9.33 | 7.01 | 27.1 | 0.02 | 94.1 | - | 392 |
| | | | | | | | | | | | | | | | |
| CDA River | 2397 | DBAS | 6/11/97 | - | 1.9 | 13 | 0.4 | 10.07 | 16.99 | 6.99 | 43.2 | 0.03 | 104 | - | 420 |
| CDA River | 2397 | DBAS | 6/11/97 | - | 1.9 | 12 | 1 | 10.06 | 15.56 | 7 | 44.3 | 0.03 | 100.8 | - | 420 |
| CDA River | 2397 | DBAS | 6/11/97 | - | 1.9 | 11 | 2 | 10.06 | 15.31 | 6.98 | 44.8 | 0.03 | 100.3 | - | 421 |
| CDA River | 2397 | DBAS | 6/11/97 | - | 1.9 | 10 | 2.9 | 10 | 14.53 | 6.97 | 45 | 0.03 | 98 | - | 422 |
| CDA River | 2397 | DBAS | 6/11/97 | - | 1.9 | 9 | 4 | 10.02 | 14.59 | 6.98 | 45.1 | 0.03 | 98.3 | - | 421 |
| CDA River | 2397 | DBAS | 6/11/97 | - | 1.9 | 8 | 5 | 10.06 | 14.36 | 6.99 | 44.7 | 0.03 | 98.2 | - | 421 |
| CDA River | 2397 | DBAS | 6/11/97 | - | 1.9 | 7 | 5.9 | 10.05 | 14.28 | 6.99 | 44 | 0.03 | 97.9 | - | 421 |
| CDA River | 2397 | DBAS | 6/11/97 | - | 1.9 | 6 | 6.9 | 10.52 | 12.6 | 7.03 | 36.9 | 0.02 | 98.7 | - | 419 |
| CDA River | 2397 | DBAS | 6/11/97 | - | 1.9 | 5 | 7.8 | 10.59 | 12.22 | 7.05 | 34.8 | 0.02 | 98.6 | - | 417 |
| CDA River | 2397 | DBAS | 6/11/97 | - | 1.9 | 4 | 8.9 | 10.94 | 11.51 | 7.08 | 30.8 | 0.02 | 100.1 | - | 415 |
| CDA River | 2397 | DBAS | 6/11/97 | - | 1.9 | 3 | 9.9 | 11.04 | 11.3 | 7.08 | 30.1 | 0.02 | 100.5 | - | 414 |
| CDA River | 2397 | DBAS | 6/11/97 | - | 1.9 | 2 | 10.9 | 11.08 | 11.25 | 7.07 | 29.2 | 0.02 | 100.8 | - | 414 |
| CDA River | 2397 | DBAS | 6/11/97 | - | 1.9 | 1 | 11.9 | 10.86 | 10.87 | 7.07 | 29.1 | 0.02 | 98.1 | - | 414 |
| | | | | | | | | | | | | | | | |
| CDA River | 2597 | DBSS | 6/26/97 | - | 2.2 | 13 | 0.3 | 10.46 | 14.23 | 7.08 | 45.3 | 0.03 | 101.7 | - | 435 |
| CDA River | 2597 | DBSS | 6/26/97 | - | 2.2 | 12 | 1.2 | 10.46 | 14.25 | 7.07 | 45.3 | 0.03 | 101.7 | - | 437 |
| CDA River | 2597 | DBSS | 6/26/97 | - | 2.2 | 11 | 2.3 | 10.45 | 14.16 | 7.05 | 45 | 0.03 | 101.5 | - | 438 |
| CDA River | 2597 | DBSS | 6/26/97 | - | 2.2 | 10 | 3.3 | 10.49 | 13.73 | 7.01 | 44.6 | 0.03 | 100.7 | - | 439 |
| CDA River | 2597 | DBSS | 6/26/97 | - | 2.2 | 9 | 4.2 | 10.47 | 13.6 | 7.03 | 42.4 | 0.03 | 100.4 | - | 437 |
| CDA River | 2597 | DBSS | 6/26/97 | - | 2.2 | 8 | 5.2 | 10.52 | 13.4 | 7.02 | 37.8 | 0.02 | 100.5 | - | 436 |
| CDA River | 2597 | DBSS | 6/26/97 | - | 2.2 | 7 | 6.2 | 10.56 | 12.5 | 7 | 34.2 | 0.02 | 98.8 | - | 436 |
| CDA River | 2597 | DBSS | 6/26/97 | - | 2.2 | 6 | 7.2 | 10.55 | 12.18 | 7 | 32.4 | 0.02 | 98 | - | 435 |
| CDA River | 2597 | DBSS | 6/26/97 | - | 2.2 | 5 | 8.3 | 10.45 | 11.41 | 7 | 30.5 | 0.02 | 95.3 | - | 435 |
| CDA River | 2597 | DBSS | 6/26/97 | - | 2.2 | 4 | 9 | 10.39 | 11.36 | 7 | 30.4 | 0.02 | 94.7 | - | 435 |
| CDA River | 2597 | DBSS | 6/26/97 | - | 2.2 | 3 | 10.2 | 10.39 | 11.33 | 6.99 | 30.4 | 0.02 | 94.7 | - | 434 |
| CDA River | 2597 | DBSS | 6/26/97 | - | 2.2 | 2 | 11.5 | 10.22 | 11.12 | 6.98 | 30.4 | 0.02 | 92.6 | - | 434 |
| CDA River | 2597 | DBSS | 6/26/97 | - | 2.2 | 1 | 12.6 | 10.07 | 10.82 | 7 | 30.6 | 0.02 | 90.6 | - | 433 |

| | | | | | | | | | | | | | | | |
|-----------|------|------|---------|---|-----|----|------|-------|-------|------|------|------|-------|---|-----|
| CDA River | 2797 | DBSS | 7/9/97 | - | 3.3 | 11 | 0.4 | 9.72 | 18.54 | 7.11 | 49.9 | 0.03 | ***** | - | 421 |
| CDA River | 2797 | DBSS | 7/9/97 | - | 3.3 | 10 | 1.1 | 9.72 | 18.53 | 7.09 | 50 | 0.03 | ***** | - | 421 |
| CDA River | 2797 | DBSS | 7/9/97 | - | 3.3 | 9 | 2.1 | 9.73 | 18.5 | 7.06 | 52.1 | 0.03 | ***** | - | 422 |
| CDA River | 2797 | DBSS | 7/9/97 | - | 3.3 | 8 | 3 | 9.78 | 18.37 | 7 | 54.8 | 0.04 | ***** | - | 424 |
| CDA River | 2797 | DBSS | 7/9/97 | - | 3.3 | 7 | 4.1 | 9.6 | 18.03 | 6.91 | 69.8 | 0.04 | ***** | - | 428 |
| CDA River | 2797 | DBSS | 7/9/97 | - | 3.3 | 6 | 5 | 9.65 | 17.73 | 6.86 | 75.4 | 0.05 | ***** | - | 430 |
| CDA River | 2797 | DBSS | 7/9/97 | - | 3.3 | 5 | 6 | 9.96 | 14.99 | - | 43 | 0.03 | 99.4 | - | 426 |
| CDA River | 2797 | DBSS | 7/9/97 | - | 3.3 | 4 | 7 | 10 | 13.1 | 6.94 | 34.1 | 0.02 | 95.7 | - | 425 |
| CDA River | 2797 | DBSS | 7/9/97 | - | 3.3 | 3 | 9 | 9.76 | 11.94 | 6.91 | 33.4 | 0.02 | 90.9 | - | 426 |
| CDA River | 2797 | DBSS | 7/9/97 | - | 3.3 | 2 | 10.1 | 9.75 | 11.82 | 6.92 | 33.4 | 0.02 | 90.6 | - | 426 |
| CDA River | 2797 | DBSS | 7/9/97 | - | 3.3 | 1 | 11 | 9.71 | 11.82 | 6.94 | 33.4 | 0.02 | 90.3 | - | 430 |
| CDA River | 2997 | SSJD | 7/24/97 | - | 4.5 | 12 | 0.5 | 9.38 | 21.69 | 7.49 | 39.8 | 0.03 | ***** | - | 395 |
| CDA River | 2997 | SSJD | 7/24/97 | - | 4.5 | 11 | 1.2 | 9.4 | 21.37 | 7.46 | 42.7 | 0.03 | ***** | - | 396 |
| CDA River | 2997 | SSJD | 7/24/97 | - | 4.5 | 10 | 2.3 | 9.4 | 21.33 | 7.4 | 48.4 | 0.03 | ***** | - | 398 |
| CDA River | 2997 | SSJD | 7/24/97 | - | 4.5 | 9 | 3.2 | 9.4 | 21.33 | 7.37 | 50.1 | 0.03 | ***** | - | 398 |
| CDA River | 2997 | SSJD | 7/24/97 | - | 4.5 | 8 | 4.2 | 9.4 | 21.3 | 7.33 | 51.3 | 0.03 | ***** | - | 398 |
| CDA River | 2997 | SSJD | 7/24/97 | - | 4.5 | 7 | 5.3 | 9.42 | 21.11 | 7.26 | 49.9 | 0.03 | ***** | - | 398 |
| CDA River | 2997 | SSJD | 7/24/97 | - | 4.5 | 6 | 6.2 | 9.33 | 20.67 | 7.11 | 58.2 | 0.04 | ***** | - | 402 |
| CDA River | 2997 | SSJD | 7/24/97 | - | 4.5 | 5 | 7.2 | 10.2 | 16.19 | 7.12 | 35.9 | 0.02 | ***** | - | 401 |
| CDA River | 2997 | SSJD | 7/24/97 | - | 4.5 | 4 | 8.2 | 9.82 | 15.19 | 7.02 | 34.9 | 0.02 | 97.2 | - | 403 |
| CDA River | 2997 | SSJD | 7/24/97 | - | 4.5 | 3 | 9.2 | 9.45 | 14.18 | 6.98 | 34 | 0.02 | 91.5 | - | 402 |
| CDA River | 2997 | SSJD | 7/24/97 | - | 4.5 | 2 | 10.2 | 9.28 | 13.84 | 0 | 34 | 0.02 | 89.2 | - | 400 |
| CDA River | 2997 | SSJD | 7/24/97 | - | 4.5 | 1 | 11.2 | 8.84 | 13.68 | 7.01 | 34.2 | 0.02 | 84.7 | - | 397 |
| CDA River | 3197 | DBSS | 8/5/97 | - | 5.5 | 11 | 0.4 | 9.38 | 25.18 | 7.65 | 61.4 | 0.04 | 112.4 | - | 359 |
| CDA River | 3197 | DBSS | 8/5/97 | - | 5.5 | 10 | 1.1 | 9.29 | 24.06 | 7.58 | 53.3 | 0.03 | 109 | - | 361 |
| CDA River | 3197 | DBSS | 8/5/97 | - | 5.5 | 9 | 2.1 | 9.23 | 23.67 | 7.54 | 50.8 | 0.03 | 107.6 | - | 362 |
| CDA River | 3197 | DBSS | 8/5/97 | - | 5.5 | 8 | 3.2 | 9.1 | 23.53 | 7.5 | 46.6 | 0.03 | 105.8 | - | 363 |
| CDA River | 3197 | DBSS | 8/5/97 | - | 5.5 | 7 | 4.2 | 9.14 | 23.26 | 7.46 | 46.6 | 0.03 | 105.8 | - | 365 |
| CDA River | 3197 | DBSS | 8/5/97 | - | 5.5 | 6 | 5.2 | 9.22 | 23.15 | 7.39 | 49.1 | 0.03 | 106.3 | - | 366 |
| CDA River | 3197 | DBSS | 8/5/97 | - | 5.5 | 5 | 6 | 10.06 | 19.97 | 7.38 | 41.6 | 0.03 | 109.2 | - | 367 |
| CDA River | 3197 | DBSS | 8/5/97 | - | 5.5 | 4 | 7.1 | 9.71 | 19.4 | 7.31 | 42.1 | 0.03 | 0 | - | 369 |
| CDA River | 3197 | DBSS | 8/5/97 | - | 5.5 | 3 | 8 | 9.81 | 18.17 | 7.33 | 38.3 | 0.02 | 102.7 | - | 368 |
| CDA River | 3197 | DBSS | 8/5/97 | - | 5.5 | 2 | 8.9 | 10.49 | 17.23 | 7.35 | 36.1 | 0.02 | 107.7 | - | 366 |
| CDA River | 3197 | DBSS | 8/5/97 | - | 5.5 | 1 | 10 | 9.81 | 16.75 | 7.32 | 36.6 | 0.02 | 99.7 | - | 368 |
| CDA River | 3297 | DBSS | 8/13/97 | - | 6 | 10 | 0.2 | 8.82 | 23.38 | 7.74 | 54.8 | 0.04 | 102.8 | - | 363 |
| CDA River | 3297 | DBSS | 8/13/97 | - | 6 | 9 | 0.7 | 8.77 | 23.13 | 7.65 | 53.9 | 0.03 | 101.8 | - | 369 |
| CDA River | 3297 | DBSS | 8/13/97 | - | 6 | 8 | 1.7 | 8.74 | 22.74 | 7.66 | 47.7 | 0.03 | 100.7 | - | 368 |
| CDA River | 3297 | DBSS | 8/13/97 | - | 6 | 7 | 2.7 | 8.8 | 22.65 | 7.68 | 50.3 | 0.03 | 101.3 | - | 367 |
| CDA River | 3297 | DBSS | 8/13/97 | - | 6 | 6 | 3.7 | 8.88 | 22.63 | 7.66 | 52.9 | 0.03 | 102.2 | - | 367 |
| CDA River | 3297 | DBSS | 8/13/97 | - | 6 | 5 | 4.7 | 8.91 | 22.33 | 7.64 | 56 | 0.04 | 101.9 | - | 367 |
| CDA River | 3297 | DBSS | 8/13/97 | - | 6 | 4 | 5.6 | 8.95 | 22.24 | 7.58 | 61.9 | 0.04 | 102.2 | - | 368 |

| | | | | | | | | | | | | | | | |
|-----------|------|------|----------|---|-----|----|------|-------|-------|------|------|------|-------|---|-----|
| CDA River | 3297 | DBSS | 8/13/97 | - | 6 | 3 | 6.7 | 8.95 | 22.08 | 7.3 | 67.3 | 0.04 | 101.8 | - | 375 |
| CDA River | 3297 | DBSS | 8/13/97 | - | 6 | 2 | 7.7 | 8.67 | 19.88 | 7.15 | 46.5 | 0.03 | 94.5 | - | 381 |
| CDA River | 3297 | DBSS | 8/13/97 | - | 6 | 1 | 8.7 | 8.73 | 17.78 | 7.14 | 39.5 | 0.03 | 91.2 | - | 382 |
| CDA River | 3497 | DBSS | 8/27/97 | - | 6.1 | 13 | 0.3 | 9.13 | 20.86 | 7.53 | 52.7 | 0.03 | 101.5 | - | 346 |
| CDA River | 3497 | DBSS | 8/27/97 | - | 6.1 | 12 | 0.9 | 9.14 | 20.84 | 7.54 | 52.6 | 0.03 | 101.7 | - | 345 |
| CDA River | 3497 | DBSS | 8/27/97 | - | 6.1 | 11 | 2 | 9.14 | 20.84 | 7.54 | 52.5 | 0.03 | 101.7 | - | 344 |
| CDA River | 3497 | DBSS | 8/27/97 | - | 6.1 | 10 | 2.9 | 9.14 | 20.83 | 7.54 | 53.3 | 0.03 | 101.7 | - | 344 |
| CDA River | 3497 | DBSS | 8/27/97 | - | 6.1 | 9 | 4 | 9.14 | 20.81 | 7.52 | 55.2 | 0.04 | 101.6 | - | 345 |
| CDA River | 3497 | DBSS | 8/27/97 | - | 6.1 | 8 | 5.1 | 9.12 | 20.81 | 7.5 | 55.4 | 0.04 | 101.4 | - | 345 |
| CDA River | 3497 | DBSS | 8/27/97 | - | 6.1 | 7 | 6.1 | 9.11 | 20.77 | 7.48 | 58 | 0.04 | 101.2 | - | 346 |
| CDA River | 3497 | DBSS | 8/27/97 | - | 6.1 | 6 | 6.9 | 9.08 | 20.76 | 7.47 | 58.3 | 0.04 | 100.9 | - | 345 |
| CDA River | 3497 | DBSS | 8/27/97 | - | 6.1 | 5 | 7.9 | 9.09 | 20.72 | 7.44 | 60 | 0.04 | 100.9 | - | 346 |
| CDA River | 3497 | DBSS | 8/27/97 | - | 6.1 | 4 | 9 | 9.06 | 20.69 | 7.41 | 59.8 | 0.04 | 100.4 | - | 346 |
| CDA River | 3497 | DBSS | 8/27/97 | - | 6.1 | 3 | 10 | 9.03 | 20.67 | 7.39 | 59.1 | 0.04 | 100.2 | - | 345 |
| CDA River | 3497 | DBSS | 8/27/97 | - | 6.1 | 2 | 10.9 | 8.92 | 20.56 | 7.37 | 59 | 0.04 | 98.7 | - | 345 |
| CDA River | 3497 | DBSS | 8/27/97 | - | 6.1 | 1 | 12 | 8.08 | 16.69 | 7.11 | 42.1 | 0.03 | 82.6 | - | 359 |
| CDA River | 3797 | ASRP | 9/17/97 | - | 5.5 | 11 | 0.1 | 9.38 | 17.47 | 7.44 | 58.9 | 0.04 | 99.1 | - | 370 |
| CDA River | 3797 | ASRP | 9/17/97 | - | 5.5 | 10 | 1 | 9.32 | 17.49 | 7.43 | 58.9 | 0.04 | 98.4 | - | 369 |
| CDA River | 3797 | ASRP | 9/17/97 | - | 5.5 | 9 | 2 | 9.24 | 17.48 | 7.45 | 59.1 | 0.04 | 97.6 | - | 368 |
| CDA River | 3797 | ASRP | 9/17/97 | - | 5.5 | 8 | 3 | 9.35 | 17.49 | 7.42 | 59 | 0.04 | 98.8 | - | 369 |
| CDA River | 3797 | ASRP | 9/17/97 | - | 5.5 | 7 | 4 | 9.37 | 17.48 | 7.4 | 59.6 | 0.04 | 99 | - | 369 |
| CDA River | 3797 | ASRP | 9/17/97 | - | 5.5 | 6 | 5 | 9.35 | 17.49 | 7.39 | 59.3 | 0.04 | 98.8 | - | 369 |
| CDA River | 3797 | ASRP | 9/17/97 | - | 5.5 | 5 | 6 | 9.29 | 17.48 | 7.37 | 59.8 | 0.04 | 97.9 | - | 368 |
| CDA River | 3797 | ASRP | 9/17/97 | - | 5.5 | 4 | 7 | 9.28 | 17.43 | 7.34 | 61 | 0.04 | 97.8 | - | 368 |
| CDA River | 3797 | ASRP | 9/17/97 | - | 5.5 | 3 | 8 | 9.19 | 17.44 | 7.22 | 61 | 0.04 | 97 | - | 369 |
| CDA River | 3797 | ASRP | 9/17/97 | - | 5.5 | 2 | 9 | 8.59 | 9.82 | 7.04 | 50.3 | 0.03 | 76.9 | - | 380 |
| CDA River | 3797 | ASRP | 9/17/97 | - | 5.5 | 1 | 10.1 | 8.38 | 9.79 | 6.96 | 52.8 | 0.03 | 74.6 | - | 385 |
| CDA River | 3997 | ASRA | 9/29/97 | - | 6 | 11 | 0.2 | 9.72 | 16.01 | 7.37 | 52.6 | 0.03 | 99.4 | - | 414 |
| CDA River | 3997 | ASRA | 9/29/97 | - | 6 | 10 | 1.8 | 9.66 | 15.76 | 7.36 | 52.2 | 0.03 | 98.4 | - | 415 |
| CDA River | 3997 | ASRA | 9/29/97 | - | 6 | 9 | 2.8 | 9.66 | 15.71 | 7.33 | 53.3 | 0.03 | 98.3 | - | 415 |
| CDA River | 3997 | ASRA | 9/29/97 | - | 6 | 8 | 3.8 | 9.62 | 15.66 | 7.31 | 53.9 | 0.03 | 97.8 | - | 415 |
| CDA River | 3997 | ASRA | 9/29/97 | - | 6 | 7 | 4.8 | 9.59 | 15.61 | 7.29 | 53.4 | 0.03 | 97.4 | - | 415 |
| CDA River | 3997 | ASRA | 9/29/97 | - | 6 | 6 | 5.9 | 9.56 | 15.54 | 7.26 | 53.8 | 0.03 | 97 | - | 414 |
| CDA River | 3997 | ASRA | 9/29/97 | - | 6 | 5 | 6.8 | 9.62 | 15.52 | 7.23 | 56.7 | 0.04 | 97.5 | - | 414 |
| CDA River | 3997 | ASRA | 9/29/97 | - | 6 | 4 | 7.8 | 9.74 | 15.12 | 7.15 | 64.5 | 0.04 | 97.9 | - | 416 |
| CDA River | 3997 | ASRA | 9/29/97 | - | 6 | 3 | 8.8 | 9.62 | 14.99 | 7.03 | 68 | 0.04 | 96.5 | - | 419 |
| CDA River | 3997 | ASRA | 9/29/97 | - | 6 | 2 | 9.8 | 7.74 | 12.13 | 6.9 | 48.6 | 0.03 | 72.8 | - | 425 |
| CDA River | 3997 | ASRA | 9/29/97 | - | 6 | 1 | 10.8 | 7.85 | 10.26 | 6.97 | 44.5 | 0.03 | 70.6 | - | 424 |
| CDA River | 4297 | DBAS | 10/21/97 | - | 6 | 11 | 0.3 | 10.11 | 11.79 | 7.24 | 54.6 | 0.03 | 92.3 | - | 371 |
| CDA River | 4297 | DBAS | 10/21/97 | - | 6 | 10 | 1 | 10.1 | 11.81 | 7.27 | 54.6 | 0.03 | 92.2 | - | 369 |

| | | | | | | | | | | | | | | | |
|-----------|------|------|----------|---|-----|----|------|-------|-------|------|------|------|------|-----|-----|
| CDA River | 4297 | DBAS | 10/21/97 | - | 6 | 9 | 2 | 10.11 | 11.81 | 7.23 | 54.8 | 0.04 | 92.4 | - | 370 |
| CDA River | 4297 | DBAS | 10/21/97 | - | 6 | 8 | 3 | 10.08 | 11.81 | 7.24 | 54.7 | 0.04 | 92.1 | - | 369 |
| CDA River | 4297 | DBAS | 10/21/97 | - | 6 | 7 | 4.1 | 10.12 | 11.77 | 7.22 | 55.3 | 0.04 | 92.4 | - | 369 |
| CDA River | 4297 | DBAS | 10/21/97 | - | 6 | 6 | 5 | 10.13 | 11.74 | 7.19 | 55.7 | 0.04 | 92.4 | - | 370 |
| CDA River | 4297 | DBAS | 10/21/97 | - | 6 | 5 | 6 | 10.16 | 11.68 | 7.18 | 56.7 | 0.04 | 92.5 | - | 370 |
| CDA River | 4297 | DBAS | 10/21/97 | - | 6 | 4 | 7 | 10.17 | 11.59 | 7.17 | 57.9 | 0.04 | 92.5 | - | 369 |
| CDA River | 4297 | DBAS | 10/21/97 | - | 6 | 3 | 8 | 10.17 | 11.59 | 7.13 | 57.9 | 0.04 | 92.5 | - | 370 |
| CDA River | 4297 | DBAS | 10/21/97 | - | 6 | 2 | 9 | 10.22 | 11.41 | 7.1 | 63.2 | 0.04 | 92.5 | - | 371 |
| CDA River | 4297 | DBAS | 10/21/97 | - | 6 | 1 | 10 | 10.23 | 10.94 | 7.01 | 81.3 | 0.05 | 91.6 | - | 379 |
| CDA River | 4497 | DBAS | 11/4/97 | - | 3.8 | 11 | 0.4 | 10.87 | 10.02 | 7.35 | 53.9 | 0.03 | 95.5 | 54 | 392 |
| CDA River | 4497 | DBAS | 11/4/97 | - | 3.8 | 10 | 1.5 | 10.94 | 9.79 | 7.34 | 53.7 | 0.03 | 95.5 | 50 | 393 |
| CDA River | 4497 | DBAS | 11/4/97 | - | 3.8 | 9 | 2.5 | 10.87 | 9.79 | 7.37 | 53.7 | 0.03 | 94.9 | 146 | 392 |
| CDA River | 4497 | DBAS | 11/4/97 | - | 3.8 | 8 | 3.5 | 10.92 | 9.74 | 7.33 | 53.6 | 0.03 | 95.3 | 51 | 393 |
| CDA River | 4497 | DBAS | 11/4/97 | - | 3.8 | 7 | 4.5 | 10.88 | 9.68 | 7.28 | 53.7 | 0.03 | 94.8 | 102 | 395 |
| CDA River | 4497 | DBAS | 11/4/97 | - | 3.8 | 6 | 5.5 | 10.9 | 9.4 | 7.21 | 54.5 | 0.03 | 94.3 | 59 | 398 |
| CDA River | 4497 | DBAS | 11/4/97 | - | 3.8 | 5 | 6.5 | 10.91 | 9.38 | 7.26 | 54.6 | 0.03 | 94.3 | 121 | 395 |
| CDA River | 4497 | DBAS | 11/4/97 | - | 3.8 | 4 | 7.5 | 11 | 9.25 | 7.19 | 54.9 | 0.04 | 94.8 | 49 | 398 |
| CDA River | 4497 | DBAS | 11/4/97 | - | 3.8 | 3 | 8.5 | 11.23 | 8.55 | 7.14 | 57.3 | 0.04 | 95.1 | 42 | 401 |
| CDA River | 4497 | DBAS | 11/4/97 | - | 3.8 | 2 | 9.5 | 11.29 | 8.25 | 7.12 | 58.2 | 0.04 | 95 | 59 | 402 |
| CDA River | 4497 | DBAS | 11/4/97 | - | 3.8 | 1 | 10.5 | 11.26 | 8.17 | 7.1 | 58.6 | 0.04 | 94.5 | 536 | 404 |

| Location | Phase | Samplers | Date | Time | Secchi (m) | Sequence | Depth (m) | Dissolved Oxygen (mg/L) | Temperature (C) | pH | Conductivity (µs/cm) | TDS | Saturated Dissolved Oxygen | Stabilization Time | Redox |
|--------------|-------|----------|---------|------|------------|----------|-----------|-------------------------|-----------------|------|----------------------|------|----------------------------|--------------------|-------|
| Mid Lake CDA | 1597 | ASSS | 4/18/97 | - | 2 | 10 | 0.4 | 12.33 | 6.36 | 7.36 | 44.6 | 0.03 | 99.9 | - | 377 |
| Mid Lake CDA | 1597 | ASSS | 4/18/97 | - | 2 | 9 | 1.4 | 12.36 | 6.3 | 7.35 | 45.2 | 0.03 | ***** | - | 378 |
| Mid Lake CDA | 1597 | ASSS | 4/18/97 | - | 2 | 8 | 2.6 | 12.27 | 6.33 | 7.35 | 44.4 | 0.03 | 99.4 | - | 379 |
| Mid Lake CDA | 1597 | ASSS | 4/18/97 | - | 2 | 7 | 3.8 | 12.31 | 6.28 | 7.34 | 45.3 | 0.03 | 99.6 | - | 379 |
| Mid Lake CDA | 1597 | ASSS | 4/18/97 | - | 2 | 6 | 5.1 | 12.32 | 6.3 | 7.34 | 45.4 | 0.03 | 99.7 | - | 379 |
| Mid Lake CDA | 1597 | ASSS | 4/18/97 | - | 2 | 5 | 6.4 | 12.35 | 6.31 | 7.34 | 44.9 | 0.03 | ***** | - | 379 |
| Mid Lake CDA | 1597 | ASSS | 4/18/97 | - | 2 | 4 | 7.5 | 12.43 | 6.31 | 7.33 | 44.6 | 0.03 | ***** | - | 379 |
| Mid Lake CDA | 1597 | ASSS | 4/18/97 | - | 2 | 3 | 8.7 | 12.4 | 6.31 | 7.33 | 44.7 | 0.03 | ***** | - | 378 |
| Mid Lake CDA | 1597 | ASSS | 4/18/97 | - | 2 | 2 | 10.1 | 12.44 | 6.26 | 7.32 | 44.8 | 0.03 | ***** | - | 379 |
| Mid Lake CDA | 1597 | ASSS | 4/18/97 | - | 2 | 1 | 11.2 | 12.57 | 6.28 | 7.32 | 44.8 | 0.03 | ***** | - | 378 |
| Mid Lake CDA | 1997 | DBAC | 5/16/97 | - | 1.25 | 15 | 0.2 | 12.04 | 13.83 | 6.33 | 0.7 | 0 | 115.5 | - | 422 |
| Mid Lake CDA | 1997 | DBAC | 5/16/97 | - | 1.25 | 14 | 1.5 | 11.12 | 10.32 | 7 | 28.2 | 0.02 | 98.5 | - | 392 |
| Mid Lake CDA | 1997 | DBAC | 5/16/97 | - | 1.25 | 13 | 3 | 11.1 | 9.86 | 7 | 28.8 | 0.02 | 97.3 | - | 392 |
| Mid Lake CDA | 1997 | DBAC | 5/16/97 | - | 1.25 | 12 | 4.5 | 11.16 | 9.79 | 6.99 | 28.3 | 0.02 | 97.5 | - | 392 |
| Mid Lake CDA | 1997 | DBAC | 5/16/97 | - | 1.25 | 11 | 6 | 11.1 | 9.51 | 6.98 | 29 | 0.02 | 96.4 | - | 393 |
| Mid Lake CDA | 1997 | DBAC | 5/16/97 | - | 1.25 | 10 | 7.5 | 11.04 | 9.25 | 6.98 | 29.4 | 0.02 | 95.3 | - | 392 |
| Mid Lake CDA | 1997 | DBAC | 5/16/97 | - | 1.25 | 9 | 9 | 11.04 | 9.17 | 6.99 | 29.6 | 0.02 | 95 | - | 391 |
| Mid Lake CDA | 1997 | DBAC | 5/16/97 | - | 1.25 | 8 | 10.5 | 11.08 | 8.92 | 7.02 | 30.7 | 0.02 | 94.8 | - | 389 |

| | | | | | | | | | | | | | | | |
|--------------|------|------|---------|---|------|----|------|-------|-------|------|------|------|-------|---|-----|
| Mid Lake CDA | 1997 | DBAC | 5/16/97 | - | 1.25 | 7 | 12 | 11.29 | 8.45 | 7.01 | 33.4 | 0.02 | 95.6 | - | 389 |
| Mid Lake CDA | 1997 | DBAC | 5/16/97 | - | 1.25 | 6 | 13.5 | 11.32 | 7.81 | 6.99 | 34.7 | 0.02 | 94.3 | - | 390 |
| Mid Lake CDA | 1997 | DBAC | 5/16/97 | - | 1.25 | 5 | 15 | 11.28 | 7.47 | 6.98 | 34.9 | 0.02 | 93.2 | - | 389 |
| Mid Lake CDA | 1997 | DBAC | 5/16/97 | - | 1.25 | 4 | 16.5 | 11.25 | 6.66 | 6.96 | 37.2 | 0.02 | 91.1 | - | 390 |
| Mid Lake CDA | 1997 | DBAC | 5/16/97 | - | 1.25 | 3 | 18 | 11.12 | 6.08 | 6.94 | 40.1 | 0.03 | 88.7 | - | 391 |
| Mid Lake CDA | 1997 | DBAC | 5/16/97 | - | 1.25 | 2 | 19.5 | 11.15 | 5.69 | 6.93 | 45.9 | 0.03 | 88.1 | - | 391 |
| Mid Lake CDA | 1997 | DBAC | 5/16/97 | - | 1.25 | 1 | 20.9 | 10.91 | 5.6 | 6.92 | 47.2 | 0.03 | 85.9 | - | 390 |
| | | | | | | | | | | | | | | | |
| Mid Lake CDA | 2197 | DBSS | 5/29/97 | - | 1.7 | 13 | 0.2 | 11.32 | 12.63 | 7.06 | 27.6 | 0.02 | 105.9 | - | 351 |
| Mid Lake CDA | 2197 | DBSS | 5/29/97 | - | 1.7 | 12 | 0.9 | 11.33 | 12.51 | 7.05 | 27.6 | 0.02 | 105.8 | - | 352 |
| Mid Lake CDA | 2197 | DBSS | 5/29/97 | - | 1.7 | 11 | 2.5 | 11.19 | 10.72 | 7 | 26.8 | 0.02 | 100.2 | - | 353 |
| Mid Lake CDA | 2197 | DBSS | 5/29/97 | - | 1.7 | 10 | 4 | 10.83 | 10.3 | 6.97 | 26.6 | 0.02 | 96 | - | 354 |
| Mid Lake CDA | 2197 | DBSS | 5/29/97 | - | 1.7 | 9 | 5.5 | 10.7 | 10.07 | 6.96 | 26.4 | 0.02 | 94.4 | - | 353 |
| Mid Lake CDA | 2197 | DBSS | 5/29/97 | - | 1.7 | 8 | 7 | 10.68 | 9.64 | 6.95 | 26.3 | 0.02 | 93.2 | - | 352 |
| Mid Lake CDA | 2197 | DBSS | 5/29/97 | - | 1.7 | 7 | 8.5 | 10.71 | 9.45 | 6.95 | 26.5 | 0.02 | 93 | - | 349 |
| Mid Lake CDA | 2197 | DBSS | 5/29/97 | - | 1.7 | 6 | 9.9 | 10.73 | 9.25 | 6.96 | 26.6 | 0.02 | 92.8 | - | 348 |
| Mid Lake CDA | 2197 | DBSS | 5/29/97 | - | 1.7 | 5 | 12.5 | 10.75 | 8.84 | 6.95 | 27 | 0.02 | 92 | - | 346 |
| Mid Lake CDA | 2197 | DBSS | 5/29/97 | - | 1.7 | 4 | 14.4 | 10.82 | 8.38 | 6.94 | 28.3 | 0.02 | 91.6 | - | 343 |
| Mid Lake CDA | 2197 | DBSS | 5/29/97 | - | 1.7 | 3 | 16.1 | 10.73 | 7.96 | 6.92 | 30.2 | 0.02 | 89.9 | - | 342 |
| Mid Lake CDA | 2197 | DBSS | 5/29/97 | - | 1.7 | 2 | 18.7 | 10.48 | 6.49 | 6.87 | 40.5 | 0.03 | 84.7 | - | 339 |
| Mid Lake CDA | 2197 | DBSS | 5/29/97 | - | 1.7 | 1 | 20.2 | 10.17 | 6.71 | 6.87 | 40.7 | 0.03 | 82.6 | - | 332 |
| | | | | | | | | | | | | | | | |
| Mid Lake CDA | 2397 | DBAS | 6/11/97 | - | 2 | 14 | 0.4 | 10.81 | 15.76 | 7.1 | 30.6 | 0.02 | 108.8 | - | 411 |
| Mid Lake CDA | 2397 | DBAS | 6/11/97 | - | 2 | 13 | 1.3 | 10.86 | 15.58 | 7.11 | 30.7 | 0.02 | 108.9 | - | 411 |
| Mid Lake CDA | 2397 | DBAS | 6/11/97 | - | 2 | 12 | 2.9 | 10.9 | 13.8 | 7.1 | 29.8 | 0.02 | 105.2 | - | 411 |
| Mid Lake CDA | 2397 | DBAS | 6/11/97 | - | 2 | 11 | 4.3 | 10.86 | 13.09 | 7.05 | 29.4 | 0.02 | 103 | - | 414 |
| Mid Lake CDA | 2397 | DBAS | 6/11/97 | - | 2 | 10 | 5.9 | 11.2 | 11.54 | 7.04 | 28.9 | 0.02 | 102.6 | - | 415 |
| Mid Lake CDA | 2397 | DBAS | 6/11/97 | - | 2 | 9 | 7.4 | 11 | 10.45 | 7.02 | 29 | 0.02 | 98.2 | - | 416 |
| Mid Lake CDA | 2397 | DBAS | 6/11/97 | - | 2 | 8 | 9 | 10.92 | 10.12 | 7 | 28.6 | 0.02 | 96.8 | - | 417 |
| Mid Lake CDA | 2397 | DBAS | 6/11/97 | - | 2 | 7 | 10.5 | 10.84 | 9.71 | 6.99 | 28.6 | 0.02 | 95.2 | - | 417 |
| Mid Lake CDA | 2397 | DBAS | 6/11/97 | - | 2 | 6 | 11.9 | 10.62 | 8.94 | 6.96 | 31.6 | 0.02 | 91.4 | - | 419 |
| Mid Lake CDA | 2397 | DBAS | 6/11/97 | - | 2 | 5 | 13.4 | 10.6 | 8.42 | 6.95 | 34.4 | 0.02 | 90.1 | - | 420 |
| Mid Lake CDA | 2397 | DBAS | 6/11/97 | - | 2 | 4 | 15 | 10.23 | 7.81 | 6.92 | 37.7 | 0.02 | 85.7 | - | 421 |
| Mid Lake CDA | 2397 | DBAS | 6/11/97 | - | 2 | 3 | 16.4 | 10.36 | 7.05 | 6.92 | 41.9 | 0.03 | 85.2 | - | 421 |
| Mid Lake CDA | 2397 | DBAS | 6/11/97 | - | 2 | 2 | 17.9 | 10.31 | 6.82 | 6.92 | 43.2 | 0.03 | 84.3 | - | 425 |
| Mid Lake CDA | 2397 | DBAS | 6/11/97 | - | 2 | 1 | 19.5 | 10.02 | 6.99 | 6.93 | 43.2 | 0.03 | 82.3 | - | 424 |
| | | | | | | | | | | | | | | | |
| Mid Lake CDA | 2597 | DBSS | 6/26/97 | - | 3 | 13 | 0.4 | 10.7 | 15.09 | 7.14 | 31.7 | 0.02 | 106.1 | - | 405 |
| Mid Lake CDA | 2597 | DBSS | 6/26/97 | - | 3 | 12 | 1.9 | 10.69 | 14.89 | 7.12 | 31.8 | 0.02 | 105.4 | - | 405 |
| Mid Lake CDA | 2597 | DBSS | 6/26/97 | - | 3 | 11 | 3.5 | 10.74 | 14.36 | 7.1 | 31.9 | 0.02 | 104.8 | - | 406 |
| Mid Lake CDA | 2597 | DBSS | 6/26/97 | - | 3 | 10 | 5 | 10.68 | 13.32 | 6.97 | 30.2 | 0.02 | 101.8 | - | 410 |
| Mid Lake CDA | 2597 | DBSS | 6/26/97 | - | 3 | 9 | 6.6 | 10.73 | 12.33 | 6.96 | 30.5 | 0.02 | 100 | - | 410 |
| Mid Lake CDA | 2597 | DBSS | 6/26/97 | - | 3 | 8 | 8.1 | 10.36 | 11.45 | 6.92 | 30.4 | 0.02 | 94.6 | - | 411 |
| Mid Lake CDA | 2597 | DBSS | 6/26/97 | - | 3 | 7 | 9.6 | 10.26 | 10.59 | 6.89 | 29.6 | 0.02 | 91.8 | - | 412 |

| | | | | | | | | | | | | | | | |
|--------------|------|------|---------|---|-----|----|------|-------|-------|------|------|------|-------|---|-----|
| Mid Lake CDA | 2597 | DBSS | 6/26/97 | - | 3 | 6 | 10.9 | 10.14 | 9.27 | 6.86 | 30.8 | 0.02 | 88 | - | 413 |
| Mid Lake CDA | 2597 | DBSS | 6/26/97 | - | 3 | 5 | 12.5 | 10.11 | 8.25 | 6.83 | 34.6 | 0.02 | 85.6 | - | 414 |
| Mid Lake CDA | 2597 | DBSS | 6/26/97 | - | 3 | 4 | 14 | 9.57 | 7.53 | 6.81 | 38 | 0.02 | 79.6 | - | 414 |
| Mid Lake CDA | 2597 | DBSS | 6/26/97 | - | 3 | 3 | 15.6 | 9.44 | 7.05 | 6.8 | 40.5 | 0.03 | 77.7 | - | 413 |
| Mid Lake CDA | 2597 | DBSS | 6/26/97 | - | 3 | 2 | 17 | 9.03 | 6.82 | 6.8 | 42.4 | 0.03 | 73.8 | - | 411 |
| Mid Lake CDA | 2597 | DBSS | 6/26/97 | - | 3 | 1 | 18.6 | 9.08 | 6.81 | 6.86 | 42.4 | 0.03 | 74.1 | - | 407 |
| | | | | | | | | | | | | | | | |
| Mid Lake CDA | 2797 | DBSS | 7/8/97 | - | 2.4 | 13 | 0.3 | 9.95 | 19.4 | 7.02 | 35.5 | 0.02 | ***** | - | 444 |
| Mid Lake CDA | 2797 | DBSS | 7/8/97 | - | 2.4 | 12 | 1.7 | 10.11 | 17.84 | 7 | 34.8 | 0.02 | ***** | - | 445 |
| Mid Lake CDA | 2797 | DBSS | 7/8/97 | - | 2.4 | 11 | 3.3 | 10.29 | 17.17 | 6.92 | 35 | 0.02 | ***** | - | 447 |
| Mid Lake CDA | 2797 | DBSS | 7/8/97 | - | 2.4 | 10 | 4.8 | 10.55 | 14.84 | 6.81 | 38.2 | 0.02 | ***** | - | 451 |
| Mid Lake CDA | 2797 | DBSS | 7/8/97 | - | 2.4 | 9 | 6.2 | 10.41 | 13.81 | 6.77 | 35.6 | 0.02 | 99.9 | - | 451 |
| Mid Lake CDA | 2797 | DBSS | 7/8/97 | - | 2.4 | 8 | 7.8 | 10.26 | 13.02 | 6.7 | 34.6 | 0.02 | 96.7 | - | 451 |
| Mid Lake CDA | 2797 | DBSS | 7/8/97 | - | 2.4 | 7 | 9.2 | 10.03 | 12.2 | 6.66 | 33.4 | 0.02 | 92.8 | - | 451 |
| Mid Lake CDA | 2797 | DBSS | 7/8/97 | - | 2.4 | 6 | 10.8 | 9.78 | 10.8 | 6.6 | 33.3 | 0.02 | 87.6 | - | 450 |
| Mid Lake CDA | 2797 | DBSS | 7/8/97 | - | 2.4 | 5 | 12.2 | 9.53 | 9.76 | 6.57 | 34.5 | 0.02 | 83.3 | - | 450 |
| Mid Lake CDA | 2797 | DBSS | 7/8/97 | - | 2.4 | 4 | 13.7 | 9.55 | 8.95 | 6.54 | 36.6 | 0.02 | 82 | - | 448 |
| Mid Lake CDA | 2797 | DBSS | 7/8/97 | - | 2.4 | 3 | 15.3 | 9.33 | 8.46 | 6.52 | 38.2 | 0.02 | 79.1 | - | 447 |
| Mid Lake CDA | 2797 | DBSS | 7/8/97 | - | 2.4 | 2 | 16.6 | 9.28 | 7.91 | 6.49 | 39.8 | 0.03 | 77.7 | - | 445 |
| Mid Lake CDA | 2797 | DBSS | 7/8/97 | - | 2.4 | 1 | 18.2 | 9.37 | 7.51 | 6.47 | 42 | 0.03 | 77.6 | - | 447 |
| | | | | | | | | | | | | | | | |
| Mid Lake CDA | 2997 | SSJD | 7/24/97 | - | 4.5 | 13 | 1.3 | 9.57 | 21.01 | 7.48 | 38.8 | 0.02 | ***** | - | 394 |
| Mid Lake CDA | 2997 | SSJD | 7/24/97 | - | 4.5 | 12 | 2.8 | 9.92 | 20.47 | 7.43 | 37.9 | 0.02 | ***** | - | 393 |
| Mid Lake CDA | 2997 | SSJD | 7/24/97 | - | 4.5 | 11 | 4.3 | 10.52 | 17.56 | 7.27 | 37.7 | 0.02 | ***** | - | 400 |
| Mid Lake CDA | 2997 | SSJD | 7/24/97 | - | 4.5 | 10 | 5.8 | 10.49 | 16.73 | 7.18 | 36.2 | 0.02 | ***** | - | 402 |
| Mid Lake CDA | 2997 | SSJD | 7/24/97 | - | 4.5 | 9 | 7.3 | 10.22 | 15.79 | 7.03 | 35.2 | 0.02 | ***** | - | 406 |
| Mid Lake CDA | 2997 | SSJD | 7/24/97 | - | 4.5 | 8 | 8.8 | 9.96 | 15.01 | 6.95 | 34.4 | 0.02 | 98.2 | - | 408 |
| Mid Lake CDA | 2997 | SSJD | 7/24/97 | - | 4.5 | 7 | 10.3 | 9.14 | 13.61 | 6.84 | 33.2 | 0.02 | 87.5 | - | 411 |
| Mid Lake CDA | 2997 | SSJD | 7/24/97 | - | 4.5 | 6 | 11.8 | 9.33 | 11.29 | 6.79 | 33.2 | 0.02 | 84.6 | - | 414 |
| Mid Lake CDA | 2997 | SSJD | 7/24/97 | - | 4.5 | 5 | 13.3 | 8.89 | 9.48 | 6.78 | 35.2 | 0.02 | 77.3 | - | 414 |
| Mid Lake CDA | 2997 | SSJD | 7/24/97 | - | 4.5 | 4 | 14.3 | 9.1 | 8.22 | 6.8 | 37.7 | 0.02 | 76.7 | - | 413 |
| Mid Lake CDA | 2997 | SSJD | 7/24/97 | - | 4.5 | 3 | 15.8 | 9.07 | 8.17 | 6.83 | 37.8 | 0.02 | 76.4 | - | 411 |
| Mid Lake CDA | 2997 | SSJD | 7/24/97 | - | 4.5 | 2 | 17.3 | 9.15 | 7.95 | 6.87 | 38.3 | 0.02 | 76.6 | - | 414 |
| Mid Lake CDA | 2997 | SSJD | 7/24/97 | - | 4.5 | 1 | 18.8 | 9.24 | 7.46 | 6.93 | 39.7 | 0.03 | 76.2 | - | 422 |
| | | | | | | | | | | | | | | | |
| Mid Lake CDA | 3197 | DBSS | 8/5/97 | - | 5.6 | 14 | 0.4 | 9.23 | 24.49 | 7.8 | 41.3 | 0.03 | 109.2 | - | 345 |
| Mid Lake CDA | 3197 | DBSS | 8/5/97 | - | 5.6 | 13 | 1 | 9.29 | 23.73 | 7.7 | 41.5 | 0.03 | 108.4 | - | 348 |
| Mid Lake CDA | 3197 | DBSS | 8/5/97 | - | 5.6 | 12 | 2.6 | 9.34 | 22.74 | 7.49 | 43.4 | 0.03 | 106.9 | - | 354 |
| Mid Lake CDA | 3197 | DBSS | 8/5/97 | - | 5.6 | 11 | 4 | 9.57 | 21.92 | 7.41 | 49.1 | 0.03 | 107.8 | - | 357 |
| Mid Lake CDA | 3197 | DBSS | 8/5/97 | - | 5.6 | 10 | 5.5 | 9.89 | 20.76 | 7.43 | 41.8 | 0.03 | 108.9 | - | 354 |
| Mid Lake CDA | 3197 | DBSS | 8/5/97 | - | 5.6 | 9 | 7 | 10.15 | 19.78 | 7.29 | 39.8 | 0.03 | 109.7 | - | 356 |
| Mid Lake CDA | 3197 | DBSS | 8/5/97 | - | 5.6 | 8 | 8.6 | 10.13 | 17.86 | 7.05 | 36.9 | 0.02 | 105.4 | - | 361 |
| Mid Lake CDA | 3197 | DBSS | 8/5/97 | - | 5.6 | 7 | 10 | 9.33 | 15.01 | 6.96 | 34.5 | 0.02 | 91.3 | - | 364 |
| Mid Lake CDA | 3197 | DBSS | 8/5/97 | - | 5.6 | 6 | 11.5 | 8.92 | 12.66 | 6.9 | 34.4 | 0.02 | 82.9 | - | 364 |

| | | | | | | | | | | | | | | | |
|--------------|------|------|---------|---|-----|----|------|------|-------|------|------|------|-------|---|-----|
| Mid Lake CDA | 3197 | DBSS | 8/5/97 | - | 5.6 | 5 | 13.1 | 8.74 | 10.18 | 6.88 | 35.9 | 0.02 | 76.7 | - | 361 |
| Mid Lake CDA | 3197 | DBSS | 8/5/97 | - | 5.6 | 4 | 14.5 | 8.58 | 9.05 | 6.91 | 37.2 | 0.02 | 73.3 | - | 357 |
| Mid Lake CDA | 3197 | DBSS | 8/5/97 | - | 5.6 | 3 | 16.1 | 8.76 | 8.04 | 6.94 | 38.9 | 0.02 | 73 | - | 354 |
| Mid Lake CDA | 3197 | DBSS | 8/5/97 | - | 5.6 | 2 | 17.5 | 8.83 | 7.94 | 6.99 | 39 | 0.03 | 73.5 | - | 347 |
| Mid Lake CDA | 3197 | DBSS | 8/5/97 | - | 5.6 | 1 | 18.9 | 8.88 | 8.18 | 7.08 | 39 | 0.03 | 74 | - | 374 |
| | | | | | | | | | | | | | | | |
| Mid Lake CDA | 3297 | DBSS | 8/13/97 | - | 6.5 | 13 | 0.5 | 8.7 | 22.93 | 7.65 | 45.4 | 0.03 | 100.6 | - | 361 |
| Mid Lake CDA | 3297 | DBSS | 8/13/97 | - | 6.5 | 12 | 2 | 8.72 | 22.56 | 7.6 | 45.2 | 0.03 | 100.1 | - | 362 |
| Mid Lake CDA | 3297 | DBSS | 8/13/97 | - | 6.5 | 11 | 3.5 | 8.77 | 22.29 | 7.56 | 45 | 0.03 | 100.2 | - | 362 |
| Mid Lake CDA | 3297 | DBSS | 8/13/97 | - | 6.5 | 10 | 5 | 8.81 | 22.12 | 7.44 | 45 | 0.03 | 100.4 | - | 365 |
| Mid Lake CDA | 3297 | DBSS | 8/13/97 | - | 6.5 | 9 | 6.5 | 8.87 | 21.44 | 7.28 | 49.4 | 0.03 | 99.7 | - | 370 |
| Mid Lake CDA | 3297 | DBSS | 8/13/97 | - | 6.5 | 8 | 8 | 9.05 | 20.09 | 7.19 | 42.6 | 0.03 | 99.1 | - | 373 |
| Mid Lake CDA | 3297 | DBSS | 8/13/97 | - | 6.5 | 7 | 9.5 | 9.2 | 18.61 | 7.05 | 38.7 | 0.02 | 97.7 | - | 374 |
| Mid Lake CDA | 3297 | DBSS | 8/13/97 | - | 6.5 | 6 | 11 | 8.12 | 14.03 | 6.91 | 35.4 | 0.02 | 78.3 | - | 379 |
| Mid Lake CDA | 3297 | DBSS | 8/13/97 | - | 6.5 | 5 | 12.5 | 7.96 | 10.62 | 6.9 | 36.8 | 0.02 | 71.1 | - | 380 |
| Mid Lake CDA | 3297 | DBSS | 8/13/97 | - | 6.5 | 4 | 14 | 7.79 | 9.22 | 6.93 | 38.5 | 0.02 | 67.3 | - | 378 |
| Mid Lake CDA | 3297 | DBSS | 8/13/97 | - | 6.5 | 3 | 15.5 | 7.71 | 8.49 | 6.97 | 39.3 | 0.03 | 65.4 | - | 376 |
| Mid Lake CDA | 3297 | DBSS | 8/13/97 | - | 6.5 | 2 | 17 | 7.29 | 8.15 | 7.08 | 40.1 | 0.03 | 61.3 | - | 370 |
| Mid Lake CDA | 3297 | DBSS | 8/13/97 | - | 6.5 | 1 | 18.7 | 8.21 | 7.69 | 6.92 | 41.3 | 0.03 | 68.3 | - | 393 |
| | | | | | | | | | | | | | | | |
| Mid Lake CDA | 3497 | DBSS | 8/27/97 | - | 8 | 13 | 0.4 | 9.08 | 21.49 | 7.54 | 50.5 | 0.03 | 102.3 | - | 353 |
| Mid Lake CDA | 3497 | DBSS | 8/27/97 | - | 8 | 12 | 1.1 | 9.08 | 21.48 | 7.54 | 50.4 | 0.03 | 102.2 | - | 353 |
| Mid Lake CDA | 3497 | DBSS | 8/27/97 | - | 8 | 11 | 2.4 | 9.08 | 21.42 | 7.53 | 50.4 | 0.03 | 102.1 | - | 353 |
| Mid Lake CDA | 3497 | DBSS | 8/27/97 | - | 8 | 10 | 4.1 | 9.09 | 21.28 | 7.52 | 50.7 | 0.03 | 102 | - | 353 |
| Mid Lake CDA | 3497 | DBSS | 8/27/97 | - | 8 | 9 | 5.6 | 9.1 | 21.18 | 7.5 | 50.7 | 0.03 | 101.9 | - | 353 |
| Mid Lake CDA | 3497 | DBSS | 8/27/97 | - | 8 | 8 | 6.9 | 9.1 | 21.11 | 7.46 | 50.7 | 0.03 | 101.7 | - | 354 |
| Mid Lake CDA | 3497 | DBSS | 8/27/97 | - | 8 | 7 | 8.5 | 8.96 | 21.05 | 7.33 | 49.9 | 0.03 | 100.1 | - | 358 |
| Mid Lake CDA | 3497 | DBSS | 8/27/97 | - | 8 | 6 | 10 | 8.48 | 20.3 | 7.17 | 48.7 | 0.03 | 93.4 | - | 363 |
| Mid Lake CDA | 3497 | DBSS | 8/27/97 | - | 8 | 5 | 11.5 | 8.19 | 19.32 | 7.01 | 45.8 | 0.03 | 88.4 | - | 370 |
| Mid Lake CDA | 3497 | DBSS | 8/27/97 | - | 8 | 4 | 12.9 | 8.39 | 15.84 | 6.91 | 40.1 | 0.03 | 84.2 | - | 375 |
| Mid Lake CDA | 3497 | DBSS | 8/27/97 | - | 8 | 3 | 14.4 | 6.45 | 12.02 | 6.88 | 40.9 | 0.03 | 59.5 | - | 379 |
| Mid Lake CDA | 3497 | DBSS | 8/27/97 | - | 8 | 2 | 15.9 | 6.81 | 9.48 | 6.95 | 42.1 | 0.03 | 59.2 | - | 377 |
| Mid Lake CDA | 3497 | DBSS | 8/27/97 | - | 8 | 1 | 17.4 | 6.69 | 9.22 | 7.07 | 42.6 | 0.03 | 57.8 | - | 373 |
| | | | | | | | | | | | | | | | |
| Mid Lake CDA | 3797 | ASRP | 9/17/97 | - | 5 | 11 | 0.2 | 8.99 | 16.75 | 7.02 | 49.9 | 0.03 | 93.5 | - | 384 |
| Mid Lake CDA | 3797 | ASRP | 9/17/97 | - | 5 | 10 | 1 | 8.9 | 16.75 | 6.94 | 49.9 | 0.03 | 92.6 | - | 386 |
| Mid Lake CDA | 3797 | ASRP | 9/17/97 | - | 5 | 9 | 3 | 8.75 | 16.43 | 6.79 | 49.7 | 0.03 | 90.4 | - | 392 |
| Mid Lake CDA | 3797 | ASRP | 9/17/97 | - | 5 | 8 | 5 | 8.08 | 10.87 | 6.71 | 43.5 | 0.03 | 73.4 | - | 398 |
| Mid Lake CDA | 3797 | ASRP | 9/17/97 | - | 5 | 7 | 7 | 8.27 | 9.37 | 6.69 | 42.7 | 0.03 | 72.8 | - | 399 |
| Mid Lake CDA | 3797 | ASRP | 9/17/97 | - | 5 | 6 | 9 | 8.19 | 8.88 | 6.7 | 43.4 | 0.03 | 71.3 | - | 399 |
| Mid Lake CDA | 3797 | ASRP | 9/17/97 | - | 5 | 5 | 10.9 | 9 | 7.66 | 6.71 | 43.9 | 0.03 | 76.1 | - | 398 |
| Mid Lake CDA | 3797 | ASRP | 9/17/97 | - | 5 | 4 | 13 | 8.96 | 7.58 | 6.74 | 44.1 | 0.03 | 75.6 | - | 396 |
| Mid Lake CDA | 3797 | ASRP | 9/17/97 | - | 5 | 3 | 15 | 9.05 | 7.43 | 6.75 | 44.2 | 0.03 | 76.2 | - | 395 |
| Mid Lake CDA | 3797 | ASRP | 9/17/97 | - | 5 | 2 | 16.9 | 9.45 | 7.12 | 6.78 | 44.6 | 0.03 | 78.8 | - | 393 |

| | | | | | | | | | | | | | | | |
|--------------|------|------|----------|---|-----|----|------|-------|-------|------|------|------|------|-----|-----|
| Mid Lake CDA | 3797 | ASRP | 9/17/97 | - | 5 | 1 | 18.6 | 9.41 | 6.89 | 6.84 | 45.1 | 0.03 | 78 | - | 390 |
| | | | | | | | | | | | | | | | |
| Mid Lake CDA | 3997 | ASRA | 9/29/97 | - | 6.5 | 10 | 0.5 | 9.59 | 16.46 | 7.17 | 50.6 | 0.03 | 99.2 | - | 407 |
| Mid Lake CDA | 3997 | ASRA | 9/29/97 | - | 6.5 | 9 | 2.7 | 9.45 | 15.86 | 7.07 | 50.1 | 0.03 | 96.5 | - | 411 |
| Mid Lake CDA | 3997 | ASRA | 9/29/97 | - | 6.5 | 8 | 4.6 | 9.24 | 15.24 | 6.92 | 50.3 | 0.03 | 93.1 | - | 417 |
| Mid Lake CDA | 3997 | ASRA | 9/29/97 | - | 6.5 | 7 | 6.6 | 8.62 | 13.82 | 6.82 | 49.6 | 0.03 | 84.2 | - | 421 |
| Mid Lake CDA | 3997 | ASRA | 9/29/97 | - | 6.5 | 6 | 8.6 | 8.64 | 12.23 | 6.78 | 46.7 | 0.03 | 81.4 | - | 423 |
| Mid Lake CDA | 3997 | ASRA | 9/29/97 | - | 6.5 | 5 | 10.6 | 8.58 | 9.81 | 6.74 | 42.5 | 0.03 | 76.4 | - | 425 |
| Mid Lake CDA | 3997 | ASRA | 9/29/97 | - | 6.5 | 4 | 12.6 | 8.65 | 8.46 | 6.74 | 42 | 0.03 | 74.5 | - | 424 |
| Mid Lake CDA | 3997 | ASRA | 9/29/97 | - | 6.5 | 3 | 14.6 | 9.04 | 7.79 | 6.74 | 42 | 0.03 | 77.4 | - | 424 |
| Mid Lake CDA | 3997 | ASRA | 9/29/97 | - | 6.5 | 2 | 16.6 | 8.92 | 7.46 | 6.81 | 42.2 | 0.03 | 75 | - | 420 |
| Mid Lake CDA | 3997 | ASRA | 9/29/97 | - | 6.5 | 1 | 18.6 | 8.91 | 7.47 | 6.87 | 42.1 | 0.03 | 75 | - | 417 |
| | | | | | | | | | | | | | | | |
| Mid Lake CDA | 4297 | DBAS | 10/22/97 | - | 4.6 | 10 | 0.2 | 10.5 | 11.58 | 7.09 | 49 | 0.03 | 96 | - | 413 |
| Mid Lake CDA | 4297 | DBAS | 10/22/97 | - | 4.6 | 9 | 2 | 10.48 | 11.59 | 7.1 | 48.9 | 0.03 | 95.8 | - | 412 |
| Mid Lake CDA | 4297 | DBAS | 10/22/97 | - | 4.6 | 8 | 4 | 10.47 | 11.59 | 7.06 | 49.1 | 0.03 | 95.7 | - | 413 |
| Mid Lake CDA | 4297 | DBAS | 10/22/97 | - | 4.6 | 7 | 6 | 10.45 | 11.58 | 7.02 | 49.1 | 0.03 | 95.5 | - | 414 |
| Mid Lake CDA | 4297 | DBAS | 10/22/97 | - | 4.6 | 6 | 8 | 10.43 | 11.59 | 7 | 49.2 | 0.03 | 95.3 | - | 414 |
| Mid Lake CDA | 4297 | DBAS | 10/22/97 | - | 4.6 | 5 | 10 | 10.42 | 11.58 | 6.94 | 49.2 | 0.03 | 95.2 | - | 415 |
| Mid Lake CDA | 4297 | DBAS | 10/22/97 | - | 4.6 | 4 | 12 | 10.4 | 11.56 | 6.88 | 49.2 | 0.03 | 95 | - | 417 |
| Mid Lake CDA | 4297 | DBAS | 10/22/97 | - | 4.6 | 3 | 14 | 10.37 | 11.56 | 6.82 | 49.2 | 0.03 | 94.8 | - | 418 |
| Mid Lake CDA | 4297 | DBAS | 10/22/97 | - | 4.6 | 2 | 16 | 10.21 | 11.51 | 6.69 | 49.3 | 0.03 | 93.2 | - | 421 |
| Mid Lake CDA | 4297 | DBAS | 10/22/97 | - | 4.6 | 1 | 18 | 4.53 | 8.53 | 6.32 | 45.1 | 0.03 | 38.5 | - | 434 |
| | | | | | | | | | | | | | | | |
| Mid Lake CDA | 4497 | DBAS | 11/4/97 | - | 4 | 13 | 0.5 | 10.64 | 10.18 | 7.08 | 53.4 | 0.03 | 93.8 | 104 | 396 |
| Mid Lake CDA | 4497 | DBAS | 11/4/97 | - | 4 | 12 | 2 | 10.49 | 9.51 | 7.02 | 53.4 | 0.03 | 91 | 56 | 398 |
| Mid Lake CDA | 4497 | DBAS | 11/4/97 | - | 4 | 11 | 3.5 | 10.25 | 9.4 | 6.97 | 53.7 | 0.03 | 88.7 | 55 | 401 |
| Mid Lake CDA | 4497 | DBAS | 11/4/97 | - | 4 | 10 | 5 | 10.05 | 9.32 | 6.94 | 53.7 | 0.03 | 86.7 | 49 | 401 |
| Mid Lake CDA | 4497 | DBAS | 11/4/97 | - | 4 | 9 | 6.5 | 9.89 | 9.24 | 6.9 | 53.4 | 0.03 | 85.2 | 120 | 402 |
| Mid Lake CDA | 4497 | DBAS | 11/4/97 | - | 4 | 8 | 8 | 8.86 | 9.01 | 6.85 | 52.9 | 0.03 | 75.9 | 119 | 403 |
| Mid Lake CDA | 4497 | DBAS | 11/4/97 | - | 4 | 7 | 9.5 | 9.57 | 8.71 | 6.85 | 54.6 | 0.03 | 81.4 | 102 | 403 |
| Mid Lake CDA | 4497 | DBAS | 11/4/97 | - | 4 | 6 | 11 | 9.28 | 8.6 | 6.84 | 53.2 | 0.03 | 78.8 | 58 | 403 |
| Mid Lake CDA | 4497 | DBAS | 11/4/97 | - | 4 | 5 | 12.5 | 9.13 | 8.5 | 6.79 | 52.6 | 0.03 | 77.3 | 102 | 405 |
| Mid Lake CDA | 4497 | DBAS | 11/4/97 | - | 4 | 4 | 14 | 9.01 | 8.43 | 6.75 | 52.1 | 0.03 | 76.2 | 227 | 406 |
| Mid Lake CDA | 4497 | DBAS | 11/4/97 | - | 4 | 3 | 15.5 | 8.76 | 7.68 | 6.72 | 47.9 | 0.03 | 72.6 | 51 | 407 |
| Mid Lake CDA | 4497 | DBAS | 11/4/97 | - | 4 | 2 | 17 | 8.81 | 7.38 | 6.72 | 46.3 | 0.03 | 72.6 | 58 | 408 |
| Mid Lake CDA | 4497 | DBAS | 11/4/97 | - | 4 | 1 | 18.4 | 8.78 | 7.27 | 6.75 | 46.2 | 0.03 | 72.1 | 713 | 407 |

| Location | Phase | Samplers | Date | Time | Secchi (m) | Sequence | Depth (m) | Dissolved Oxygen (mg/L) | Temperature (C) | pH | Conductivity (µs/cm) | TDS | Saturated Dissolved Oxygen | Stabilization Time | Redox |
|-----------|-------|----------|---------|------|------------|----------|-----------|-------------------------|-----------------|------|----------------------|------|----------------------------|--------------------|-------|
| Carey Bay | 1597 | ASSS | 4/18/97 | - | 1.9 | 10 | 0.4 | 12.31 | 6.22 | 7.43 | 38.4 | 0.02 | 99.4 | - | 374 |
| Carey Bay | 1597 | ASSS | 4/18/97 | - | 1.9 | 9 | 1 | 12.3 | 6.07 | 7.41 | 38.5 | 0.02 | 99 | - | 375 |
| Carey Bay | 1597 | ASSS | 4/18/97 | - | 1.9 | 8 | 2 | 12.29 | 5.77 | 7.41 | 38.2 | 0.02 | 98.1 | - | 375 |

| | | | | | | | | | | | | | | | |
|-----------|------|------|---------|---|-----|----|------|-------|-------|------|------|------|-------|---|-----|
| Carey Bay | 1597 | ASSS | 4/18/97 | - | 1.9 | 7 | 3.1 | 12.21 | 5.64 | 7.41 | 38.4 | 0.02 | 97.2 | - | 375 |
| Carey Bay | 1597 | ASSS | 4/18/97 | - | 1.9 | 6 | 4.3 | 12.2 | 5.6 | 7.4 | 38.3 | 0.02 | 97 | - | 375 |
| Carey Bay | 1597 | ASSS | 4/18/97 | - | 1.9 | 5 | 5.5 | 12.14 | 5.57 | 7.39 | 38.2 | 0.02 | 96.6 | - | 375 |
| Carey Bay | 1597 | ASSS | 4/18/97 | - | 1.9 | 4 | 6.8 | 12.15 | 5.56 | 7.39 | 38.3 | 0.02 | 96.5 | - | 375 |
| Carey Bay | 1597 | ASSS | 4/18/97 | - | 1.9 | 3 | 8.1 | 12.12 | 5.54 | 7.38 | 38.4 | 0.02 | 96.2 | - | 375 |
| Carey Bay | 1597 | ASSS | 4/18/97 | - | 1.9 | 2 | 9.3 | 12.12 | 5.49 | 7.38 | 38.4 | 0.02 | 96.1 | - | 374 |
| Carey Bay | 1597 | ASSS | 4/18/97 | - | 1.9 | 1 | 10.5 | 12.09 | 5.47 | 7.37 | 38.5 | 0.02 | 95.8 | - | 374 |
| | | | | | | | | | | | | | | | |
| Carey Bay | 1997 | DBAC | 5/16/97 | - | 1.6 | 12 | 0.2 | 11.52 | 15.54 | 7.11 | 35.1 | 0.02 | 114.7 | - | 389 |
| Carey Bay | 1997 | DBAC | 5/16/97 | - | 1.6 | 11 | 1 | 11.94 | 11.22 | 7.15 | 33.5 | 0.02 | 107.9 | - | 390 |
| Carey Bay | 1997 | DBAC | 5/16/97 | - | 1.6 | 10 | 2 | 12.11 | 10.1 | 7.1 | 33.6 | 0.02 | 106.7 | - | 392 |
| Carey Bay | 1997 | DBAC | 5/16/97 | - | 1.6 | 9 | 3.5 | 11.57 | 9.45 | 7.05 | 32.8 | 0.02 | 100.3 | - | 395 |
| Carey Bay | 1997 | DBAC | 5/16/97 | - | 1.6 | 8 | 5 | 11.39 | 9.02 | 7.02 | 33.9 | 0.02 | 97.7 | - | 395 |
| Carey Bay | 1997 | DBAC | 5/16/97 | - | 1.6 | 7 | 6.5 | 11.37 | 8.88 | 7.01 | 34.2 | 0.02 | 97.2 | - | 396 |
| Carey Bay | 1997 | DBAC | 5/16/97 | - | 1.6 | 6 | 8 | 11.34 | 8.69 | 7.01 | 34.6 | 0.02 | 96.6 | - | 395 |
| Carey Bay | 1997 | DBAC | 5/16/97 | - | 1.6 | 5 | 9.5 | 11.36 | 8.33 | 7 | 34.4 | 0.02 | 95.8 | - | 395 |
| Carey Bay | 1997 | DBAC | 5/16/97 | - | 1.6 | 4 | 11 | 11.32 | 8.07 | 6.99 | 34.8 | 0.02 | 95 | - | 395 |
| Carey Bay | 1997 | DBAC | 5/16/97 | - | 1.6 | 3 | 12.5 | 11.24 | 7.83 | 6.98 | 34.8 | 0.02 | 93.7 | - | 395 |
| Carey Bay | 1997 | DBAC | 5/16/97 | - | 1.6 | 2 | 14 | 10.99 | 7.61 | 6.96 | 35.2 | 0.02 | 91 | - | 396 |
| Carey Bay | 1997 | DBAC | 5/16/97 | - | 1.6 | 1 | 15.3 | 10.38 | 6.86 | 6.95 | 37.3 | 0.02 | 84.5 | - | 396 |
| | | | | | | | | | | | | | | | |
| Carey Bay | 2197 | DBSS | 5/29/97 | - | 1.4 | 14 | 0.3 | 10.67 | 14.15 | 6.97 | 28.5 | 0.02 | 103.3 | - | 366 |
| Carey Bay | 2197 | DBSS | 5/29/97 | - | 1.4 | 13 | 1 | 11.21 | 10.91 | 6.99 | 26.2 | 0.02 | 100.9 | - | 366 |
| Carey Bay | 2197 | DBSS | 5/29/97 | - | 1.4 | 12 | 2.1 | 10.88 | 10.38 | 6.97 | 26.3 | 0.02 | 96.7 | - | 367 |
| Carey Bay | 2197 | DBSS | 5/29/97 | - | 1.4 | 11 | 3.1 | 10.63 | 10.2 | 6.94 | 26.3 | 0.02 | 94.1 | - | 368 |
| Carey Bay | 2197 | DBSS | 5/29/97 | - | 1.4 | 10 | 4.1 | 10.64 | 9.86 | 6.91 | 26.2 | 0.02 | 93.3 | - | 369 |
| Carey Bay | 2197 | DBSS | 5/29/97 | - | 1.4 | 9 | 5.1 | 10.43 | 9.79 | 6.92 | 26.4 | 0.02 | 91.3 | - | 368 |
| Carey Bay | 2197 | DBSS | 5/29/97 | - | 1.4 | 8 | 6.2 | 10.43 | 9.74 | 6.93 | 26.5 | 0.02 | 91.3 | - | 368 |
| Carey Bay | 2197 | DBSS | 5/29/97 | - | 1.4 | 7 | 7.2 | 10.61 | 9.64 | 6.92 | 26.3 | 0.02 | 92.6 | - | 367 |
| Carey Bay | 2197 | DBSS | 5/29/97 | - | 1.4 | 6 | 8.2 | 10.61 | 9.53 | 6.94 | 26.4 | 0.02 | 92.4 | - | 366 |
| Carey Bay | 2197 | DBSS | 5/29/97 | - | 1.4 | 5 | 9.2 | 10.64 | 9.43 | 6.93 | 26.4 | 0.02 | 92.4 | - | 366 |
| Carey Bay | 2197 | DBSS | 5/29/97 | - | 1.4 | 4 | 10.2 | 10.64 | 9.3 | 6.93 | 26.5 | 0.02 | 92.1 | - | 366 |
| Carey Bay | 2197 | DBSS | 5/29/97 | - | 1.4 | 3 | 11.2 | 10.61 | 9.12 | 6.94 | 26.7 | 0.02 | 91.5 | - | 365 |
| Carey Bay | 2197 | DBSS | 5/29/97 | - | 1.4 | 2 | 12.3 | 10.56 | 8.86 | 6.93 | 27.5 | 0.02 | 90.3 | - | 365 |
| Carey Bay | 2197 | DBSS | 5/29/97 | - | 1.4 | 1 | 13.2 | 10.64 | 8.66 | 6.94 | 27.8 | 0.02 | 90.7 | - | 364 |
| | | | | | | | | | | | | | | | |
| Carey Bay | 2397 | DBAS | 6/11/97 | - | 2 | 14 | 0.7 | 10.87 | 15.48 | 7.17 | 31.2 | 0.02 | 108.7 | - | 411 |
| Carey Bay | 2397 | DBAS | 6/11/97 | - | 2 | 13 | 1.6 | 11.2 | 14.35 | 7.1 | 30.9 | 0.02 | 109.3 | - | 414 |
| Carey Bay | 2397 | DBAS | 6/11/97 | - | 2 | 12 | 2.5 | 11.22 | 11.79 | 7.09 | 29.1 | 0.02 | 103.4 | - | 415 |
| Carey Bay | 2397 | DBAS | 6/11/97 | - | 2 | 11 | 3.5 | 11.32 | 11.3 | 7.07 | 28.9 | 0.02 | 103.2 | - | 416 |
| Carey Bay | 2397 | DBAS | 6/11/97 | - | 2 | 10 | 4.5 | 11.27 | 11.22 | 7.06 | 28.8 | 0.02 | 102.5 | - | 417 |
| Carey Bay | 2397 | DBAS | 6/11/97 | - | 2 | 9 | 5.5 | 10.97 | 10.99 | 7.03 | 28.8 | 0.02 | 99.2 | - | 418 |
| Carey Bay | 2397 | DBAS | 6/11/97 | - | 2 | 8 | 6.5 | 10.9 | 10.38 | 7.01 | 28.8 | 0.02 | 97.2 | - | 419 |
| Carey Bay | 2397 | DBAS | 6/11/97 | - | 2 | 7 | 7.5 | 10.84 | 10.17 | 7.01 | 28.7 | 0.02 | 96.2 | - | 419 |

| | | | | | | | | | | | | | | | |
|-----------|------|------|---------|---|-----|----|------|-------|-------|------|------|------|-------|---|-----|
| Carey Bay | 2397 | DBAS | 6/11/97 | - | 2 | 6 | 8.5 | 10.69 | 9.91 | 6.98 | 28.9 | 0.02 | 94.2 | - | 420 |
| Carey Bay | 2397 | DBAS | 6/11/97 | - | 2 | 5 | 9.5 | 10.63 | 9.45 | 6.98 | 29.4 | 0.02 | 92.7 | - | 420 |
| Carey Bay | 2397 | DBAS | 6/11/97 | - | 2 | 4 | 10.5 | 10.61 | 9.22 | 6.97 | 30.2 | 0.02 | 92 | - | 421 |
| Carey Bay | 2397 | DBAS | 6/11/97 | - | 2 | 3 | 11.4 | 10.58 | 8.99 | 6.97 | 31.1 | 0.02 | 91.2 | - | 421 |
| Carey Bay | 2397 | DBAS | 6/11/97 | - | 2 | 2 | 12.5 | 10.56 | 8.84 | 6.96 | 31.9 | 0.02 | 90.6 | - | 421 |
| Carey Bay | 2397 | DBAS | 6/11/97 | - | 2 | 1 | 13.4 | 10.14 | 8.11 | 6.95 | 36.1 | 0.02 | 85.6 | - | 423 |
| | | | | | | | | | | | | | | | |
| Carey Bay | 2597 | DBSS | 6/26/97 | - | 2.5 | 12 | 0.3 | 10.81 | 14.98 | 7.2 | 30.4 | 0.02 | 106.8 | - | 427 |
| Carey Bay | 2597 | DBSS | 6/26/97 | - | 2.5 | 11 | 0.9 | 10.81 | 14.93 | 7.17 | 30.4 | 0.02 | 106.8 | - | 429 |
| Carey Bay | 2597 | DBSS | 6/26/97 | - | 2.5 | 10 | 1.8 | 10.85 | 14.49 | 7.11 | 30.2 | 0.02 | 106.1 | - | 432 |
| Carey Bay | 2597 | DBSS | 6/26/97 | - | 2.5 | 9 | 2.8 | 10.91 | 13.73 | 7.12 | 29.9 | 0.02 | 104.9 | - | 431 |
| Carey Bay | 2597 | DBSS | 6/26/97 | - | 2.5 | 8 | 3.8 | 10.94 | 13.11 | 7.1 | 29.8 | 0.02 | 103.8 | - | 432 |
| Carey Bay | 2597 | DBSS | 6/26/97 | - | 2.5 | 7 | 4.8 | 10.91 | 12.73 | 7.06 | 29.6 | 0.02 | 102.6 | - | 434 |
| Carey Bay | 2597 | DBSS | 6/26/97 | - | 2.5 | 6 | 5.7 | 10.84 | 12.33 | 6.99 | 29.8 | 0.02 | 101.1 | - | 436 |
| Carey Bay | 2597 | DBSS | 6/26/97 | - | 2.5 | 5 | 6.8 | 10.61 | 11.74 | 6.94 | 29.5 | 0.02 | 97.5 | - | 438 |
| Carey Bay | 2597 | DBSS | 6/26/97 | - | 2.5 | 4 | 7.7 | 10.42 | 10.66 | 6.92 | 29.3 | 0.02 | 93.4 | - | 440 |
| Carey Bay | 2597 | DBSS | 6/26/97 | - | 2.5 | 3 | 8.7 | 10.01 | 10.1 | 6.89 | 29.9 | 0.02 | 88.6 | - | 441 |
| Carey Bay | 2597 | DBSS | 6/26/97 | - | 2.5 | 2 | 9.7 | 9.88 | 9.97 | 6.91 | 30.4 | 0.02 | 87.1 | - | 440 |
| Carey Bay | 2597 | DBSS | 6/26/97 | - | 2.5 | 1 | 10.6 | 9.78 | 9.66 | 6.92 | 31.3 | 0.02 | 85.6 | - | 440 |
| | | | | | | | | | | | | | | | |
| Carey Bay | 2797 | DBSS | 7/8/97 | - | 2.9 | 13 | 0.3 | 10.09 | 18.7 | 7.18 | 36.8 | 0.02 | ***** | - | 444 |
| Carey Bay | 2797 | DBSS | 7/8/97 | - | 2.9 | 12 | 1.1 | 10.09 | 18.66 | 7.17 | 36.9 | 0.02 | ***** | - | 444 |
| Carey Bay | 2797 | DBSS | 7/8/97 | - | 2.9 | 11 | 1.9 | 10.24 | 17.47 | 7.13 | 36.3 | 0.02 | ***** | - | 446 |
| Carey Bay | 2797 | DBSS | 7/8/97 | - | 2.9 | 10 | 2.9 | 10.39 | 16.41 | 7.09 | 37.1 | 0.02 | ***** | - | 449 |
| Carey Bay | 2797 | DBSS | 7/8/97 | - | 2.9 | 9 | 3.9 | 10.25 | 16.19 | 7.04 | 37.4 | 0.02 | ***** | - | 450 |
| Carey Bay | 2797 | DBSS | 7/8/97 | - | 2.9 | 8 | 5 | 10.47 | 15.01 | 7.01 | 36.9 | 0.02 | ***** | - | 452 |
| Carey Bay | 2797 | DBSS | 7/8/97 | - | 2.9 | 7 | 5.9 | 10.37 | 14.42 | 6.97 | 35.9 | 0.02 | ***** | - | 454 |
| Carey Bay | 2797 | DBSS | 7/8/97 | - | 2.9 | 6 | 7.1 | 10.16 | 13.17 | 6.94 | 34.3 | 0.02 | 96.2 | - | 455 |
| Carey Bay | 2797 | DBSS | 7/8/97 | - | 2.9 | 5 | 8 | 10 | 12.81 | 6.93 | 34.2 | 0.02 | 93.9 | - | 456 |
| Carey Bay | 2797 | DBSS | 7/8/97 | - | 2.9 | 4 | 9 | 9.91 | 12.15 | 6.91 | 33.4 | 0.02 | 91.7 | - | 457 |
| Carey Bay | 2797 | DBSS | 7/8/97 | - | 2.9 | 3 | 10 | 9.55 | 11.25 | 6.9 | 33 | 0.02 | 86.5 | - | 458 |
| Carey Bay | 2797 | DBSS | 7/8/97 | - | 2.9 | 2 | 11 | 9.03 | 9.98 | 6.91 | 34.7 | 0.02 | 79.4 | - | 460 |
| Carey Bay | 2797 | DBSS | 7/8/97 | - | 2.9 | 1 | 11.9 | 9.2 | 9.77 | 6.97 | 35.1 | 0.02 | 80.4 | - | 457 |
| | | | | | | | | | | | | | | | |
| Carey Bay | 2997 | SSJD | 7/24/97 | - | 5.5 | 14 | 0.3 | 9.94 | 20.53 | 7.53 | 40 | 0.03 | ***** | - | 408 |
| Carey Bay | 2997 | SSJD | 7/24/97 | - | 5.5 | 13 | 0.8 | 9.99 | 20.55 | 7.51 | 40 | 0.03 | ***** | - | 408 |
| Carey Bay | 2997 | SSJD | 7/24/97 | - | 5.5 | 12 | 1.8 | 10.43 | 19.63 | 7.5 | 39.7 | 0.03 | ***** | - | 410 |
| Carey Bay | 2997 | SSJD | 7/24/97 | - | 5.5 | 11 | 2.8 | 10.53 | 18.87 | 7.48 | 38.4 | 0.02 | ***** | - | 410 |
| Carey Bay | 2997 | SSJD | 7/24/97 | - | 5.5 | 10 | 3.7 | 10.45 | 18.25 | 7.34 | 38.9 | 0.02 | ***** | - | 414 |
| Carey Bay | 2997 | SSJD | 7/24/97 | - | 5.5 | 9 | 4.8 | 10.36 | 17.29 | 7.24 | 37.6 | 0.02 | ***** | - | 418 |
| Carey Bay | 2997 | SSJD | 7/24/97 | - | 5.5 | 8 | 5.8 | 10.3 | 16.48 | 7.19 | 36.7 | 0.02 | ***** | - | 419 |
| Carey Bay | 2997 | SSJD | 7/24/97 | - | 5.5 | 7 | 6.7 | 10.29 | 16.07 | 7.16 | 36 | 0.02 | ***** | - | 419 |
| Carey Bay | 2997 | SSJD | 7/24/97 | - | 5.5 | 6 | 7.9 | 9.77 | 15.61 | 7.07 | 35.2 | 0.02 | 97.7 | - | 422 |
| Carey Bay | 2997 | SSJD | 7/24/97 | - | 5.5 | 5 | 8.4 | 10.09 | 15.67 | 7.02 | 35.3 | 0.02 | ***** | - | 422 |

| | | | | | | | | | | | | | | | |
|-----------|------|------|---------|---|-----|----|------|-------|-------|------|------|------|-------|---|-----|
| Carey Bay | 2997 | SSJD | 7/24/97 | - | 5.5 | 4 | 9.4 | 9.66 | 14.52 | 6.98 | 33.7 | 0.02 | 94.3 | - | 423 |
| Carey Bay | 2997 | SSJD | 7/24/97 | - | 5.5 | 3 | 10.4 | 9.48 | 13.88 | 6.94 | 33.3 | 0.02 | 91.2 | - | 424 |
| Carey Bay | 2997 | SSJD | 7/24/97 | - | 5.5 | 2 | 11.4 | 8.87 | 12.67 | 6.91 | 33.1 | 0.02 | 83 | - | 426 |
| Carey Bay | 2997 | SSJD | 7/24/97 | - | 5.5 | 1 | 12.4 | 7.87 | 10.18 | 6.93 | 36.1 | 0.02 | 69.6 | - | 427 |
| Carey Bay | 3197 | DBSS | 8/5/97 | - | 5.3 | 12 | 0.3 | 9.47 | 23.01 | 7.6 | 43.4 | 0.03 | 109 | - | 364 |
| Carey Bay | 3197 | DBSS | 8/5/97 | - | 5.3 | 11 | 1 | 9.51 | 22.72 | 7.59 | 43.5 | 0.03 | 108.8 | - | 365 |
| Carey Bay | 3197 | DBSS | 8/5/97 | - | 5.3 | 10 | 2.1 | 9.61 | 22.15 | 7.53 | 43.8 | 0.03 | 108.7 | - | 366 |
| Carey Bay | 3197 | DBSS | 8/5/97 | - | 5.3 | 9 | 3 | 9.66 | 21.88 | 7.5 | 42.6 | 0.03 | 108.8 | - | 367 |
| Carey Bay | 3197 | DBSS | 8/5/97 | - | 5.3 | 8 | 3.9 | 9.81 | 21.53 | 7.47 | 43.8 | 0.03 | 109.7 | - | 368 |
| Carey Bay | 3197 | DBSS | 8/5/97 | - | 5.3 | 7 | 4.9 | 9.89 | 21.11 | 7.42 | 43 | 0.03 | 109.5 | - | 369 |
| Carey Bay | 3197 | DBSS | 8/5/97 | - | 5.3 | 6 | 6 | 9.91 | 20.84 | 7.34 | 41.5 | 0.03 | 109.4 | - | 371 |
| Carey Bay | 3197 | DBSS | 8/5/97 | - | 5.3 | 5 | 6.9 | 9.66 | 19.4 | 7.27 | 39.5 | 0.03 | 103.6 | - | 374 |
| Carey Bay | 3197 | DBSS | 8/5/97 | - | 5.3 | 4 | 7.9 | 10.34 | 18.36 | 7.26 | 37.2 | 0.02 | 108.6 | - | 373 |
| Carey Bay | 3197 | DBSS | 8/5/97 | - | 5.3 | 3 | 9 | 9.68 | 17.1 | 7.14 | 36.6 | 0.02 | 99.1 | - | 377 |
| Carey Bay | 3197 | DBSS | 8/5/97 | - | 5.3 | 2 | 10 | 8.87 | 15.07 | 7.06 | 35.5 | 0.02 | 86.9 | - | 380 |
| Carey Bay | 3197 | DBSS | 8/5/97 | - | 5.3 | 1 | 11 | 7.89 | 14.19 | 7.1 | 35.6 | 0.02 | 75.9 | - | 381 |
| Carey Bay | 3297 | DBSS | 8/14/97 | - | 8 | 13 | 0.4 | 8.59 | 22.47 | 7.5 | 45.1 | 0.03 | 98.4 | - | 378 |
| Carey Bay | 3297 | DBSS | 8/14/97 | - | 8 | 12 | 1.4 | 8.6 | 22.43 | 7.54 | 45.1 | 0.03 | 98.5 | - | 376 |
| Carey Bay | 3297 | DBSS | 8/14/97 | - | 8 | 11 | 2.4 | 8.65 | 22.33 | 7.47 | 45.1 | 0.03 | 98.9 | - | 377 |
| Carey Bay | 3297 | DBSS | 8/14/97 | - | 8 | 10 | 3.3 | 8.67 | 22.22 | 7.42 | 45.3 | 0.03 | 98.8 | - | 378 |
| Carey Bay | 3297 | DBSS | 8/14/97 | - | 8 | 9 | 4.3 | 8.66 | 21.9 | 7.3 | 45.9 | 0.03 | 98.2 | - | 383 |
| Carey Bay | 3297 | DBSS | 8/14/97 | - | 8 | 8 | 5.3 | 8.61 | 21.55 | 7.25 | 45.7 | 0.03 | 97 | - | 385 |
| Carey Bay | 3297 | DBSS | 8/14/97 | - | 8 | 7 | 6.4 | 8.62 | 21.19 | 7.2 | 45.6 | 0.03 | 96.4 | - | 386 |
| Carey Bay | 3297 | DBSS | 8/14/97 | - | 8 | 6 | 7.4 | 8.39 | 20.53 | 7.15 | 43 | 0.03 | 92.6 | - | 388 |
| Carey Bay | 3297 | DBSS | 8/14/97 | - | 8 | 5 | 8.4 | 8.64 | 19.56 | 7.01 | 40.1 | 0.03 | 93.5 | - | 391 |
| Carey Bay | 3297 | DBSS | 8/14/97 | - | 8 | 4 | 9.4 | 8.27 | 18.94 | 6.95 | 39.7 | 0.03 | 88.4 | - | 393 |
| Carey Bay | 3297 | DBSS | 8/14/97 | - | 8 | 3 | 10.4 | 8.26 | 18.41 | 6.88 | 38.9 | 0.02 | 87.5 | - | 395 |
| Carey Bay | 3297 | DBSS | 8/14/97 | - | 8 | 2 | 11.5 | 7.89 | 15.96 | 6.83 | 36.5 | 0.02 | 79.3 | - | 398 |
| Carey Bay | 3297 | DBSS | 8/14/97 | - | 8 | 1 | 12.4 | 6.74 | 13.07 | 6.82 | 37.1 | 0.02 | 62.7 | - | 401 |
| Carey Bay | 3497 | DBSS | 8/27/97 | - | 8.2 | 14 | 0.3 | 8.97 | 21.76 | 7.5 | 49.7 | 0.03 | 101.6 | - | 356 |
| Carey Bay | 3497 | DBSS | 8/27/97 | - | 8.2 | 13 | 0.9 | 8.98 | 21.74 | 7.52 | 49.6 | 0.03 | 101.6 | - | 355 |
| Carey Bay | 3497 | DBSS | 8/27/97 | - | 8.2 | 12 | 1.9 | 8.99 | 21.67 | 7.5 | 49.6 | 0.03 | 101.6 | - | 356 |
| Carey Bay | 3497 | DBSS | 8/27/97 | - | 8.2 | 11 | 2.9 | 9 | 21.53 | 7.45 | 49.8 | 0.03 | 101.5 | - | 358 |
| Carey Bay | 3497 | DBSS | 8/27/97 | - | 8.2 | 10 | 3.9 | 8.93 | 21.37 | 7.43 | 49.3 | 0.03 | 100.4 | - | 358 |
| Carey Bay | 3497 | DBSS | 8/27/97 | - | 8.2 | 9 | 4.9 | 8.91 | 21.26 | 7.39 | 49.3 | 0.03 | 99.9 | - | 359 |
| Carey Bay | 3497 | DBSS | 8/27/97 | - | 8.2 | 8 | 6.1 | 8.89 | 21.09 | 7.36 | 49.3 | 0.03 | 99.4 | - | 360 |
| Carey Bay | 3497 | DBSS | 8/27/97 | - | 8.2 | 7 | 7 | 8.95 | 20.91 | 7.34 | 49.6 | 0.03 | 99.7 | - | 360 |
| Carey Bay | 3497 | DBSS | 8/27/97 | - | 8.2 | 6 | 8 | 8.92 | 20.84 | 7.28 | 49.5 | 0.03 | 99.2 | - | 362 |
| Carey Bay | 3497 | DBSS | 8/27/97 | - | 8.2 | 5 | 9 | 8.84 | 20.7 | 7.18 | 49.1 | 0.03 | 98.1 | - | 365 |
| Carey Bay | 3497 | DBSS | 8/27/97 | - | 8.2 | 4 | 10 | 8.6 | 20.42 | 7.08 | 48.3 | 0.03 | 95 | - | 370 |
| Carey Bay | 3497 | DBSS | 8/27/97 | - | 8.2 | 3 | 11 | 8.16 | 16.21 | 6.99 | 40.9 | 0.03 | 82.6 | - | 376 |

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|-----------|------|------|----------|---|-----|----|------|-------|-------|------|------|------|------|-----|-----|
| Carey Bay | 3497 | DBSS | 8/27/97 | - | 8.2 | 2 | 11.9 | 8.02 | 15.24 | 7.04 | 40.2 | 0.03 | 79.5 | - | 374 |
| Carey Bay | 3497 | DBSS | 8/27/97 | - | 8.2 | 1 | 12.9 | 8.03 | 14.64 | 7.15 | 40.2 | 0.03 | 78.6 | - | 372 |
| | | | | | | | | | | | | | | | |
| Carey Bay | 3797 | ASRP | 9/17/97 | - | 3.5 | 13 | 0.5 | 8.05 | 14.69 | 6.76 | 44.3 | 0.03 | 80.1 | - | 408 |
| Carey Bay | 3797 | ASRP | 9/17/97 | - | 3.5 | 12 | 1.5 | 7.89 | 14.03 | 6.72 | 43.7 | 0.03 | 77.4 | - | 411 |
| Carey Bay | 3797 | ASRP | 9/17/97 | - | 3.5 | 11 | 2.5 | 7.64 | 11.22 | 6.71 | 42.5 | 0.03 | 70.3 | - | 413 |
| Carey Bay | 3797 | ASRP | 9/17/97 | - | 3.5 | 10 | 3.5 | 7.84 | 9.99 | 6.71 | 42.4 | 0.03 | 70.1 | - | 414 |
| Carey Bay | 3797 | ASRP | 9/17/97 | - | 3.5 | 9 | 4.6 | 8.21 | 9.33 | 6.7 | 42.9 | 0.03 | 72.1 | - | 415 |
| Carey Bay | 3797 | ASRP | 9/17/97 | - | 3.5 | 8 | 5.5 | 8.13 | 9.17 | 6.71 | 42.9 | 0.03 | 71.1 | - | 415 |
| Carey Bay | 3797 | ASRP | 9/17/97 | - | 3.5 | 7 | 6.5 | 8.2 | 9.1 | 6.72 | 43.1 | 0.03 | 71.8 | - | 415 |
| Carey Bay | 3797 | ASRP | 9/17/97 | - | 3.5 | 6 | 7.5 | 8.27 | 8.99 | 6.73 | 43.2 | 0.03 | 72.2 | - | 414 |
| Carey Bay | 3797 | ASRP | 9/17/97 | - | 3.5 | 5 | 8.5 | 8.31 | 8.89 | 6.75 | 43.3 | 0.03 | 72.3 | - | 414 |
| Carey Bay | 3797 | ASRP | 9/17/97 | - | 3.5 | 4 | 9.3 | 8.34 | 8.78 | 6.75 | 43.3 | 0.03 | 72.3 | - | 414 |
| Carey Bay | 3797 | ASRP | 9/17/97 | - | 3.5 | 3 | 10.7 | 8.67 | 8.6 | 6.77 | 43.5 | 0.03 | 75.2 | - | 413 |
| Carey Bay | 3797 | ASRP | 9/17/97 | - | 3.5 | 2 | 11.5 | 8.4 | 8.6 | 6.78 | 43.3 | 0.03 | 72.7 | - | 413 |
| Carey Bay | 3797 | ASRP | 9/17/97 | - | 3.5 | 1 | 12.5 | 8.46 | 8.48 | 6.82 | 43.4 | 0.03 | 73.3 | - | 412 |
| | | | | | | | | | | | | | | | |
| Carey Bay | 3997 | ASRA | 9/29/97 | - | 6.3 | 13 | 0.2 | 9.16 | 16.28 | 7.09 | 50 | 0.03 | 94.3 | - | 411 |
| Carey Bay | 3997 | ASRA | 9/29/97 | - | 6.3 | 12 | 1 | 9.09 | 15.89 | 7.08 | 49.9 | 0.03 | 92.9 | - | 411 |
| Carey Bay | 3997 | ASRA | 9/29/97 | - | 6.3 | 11 | 2 | 9.02 | 15.58 | 7.07 | 49.9 | 0.03 | 91.6 | - | 411 |
| Carey Bay | 3997 | ASRA | 9/29/97 | - | 6.3 | 10 | 3 | 8.95 | 15.44 | 7.04 | 50 | 0.03 | 90.6 | - | 412 |
| Carey Bay | 3997 | ASRA | 9/29/97 | - | 6.3 | 9 | 4 | 8.83 | 15.34 | 6.99 | 49.9 | 0.03 | 89.2 | - | 413 |
| Carey Bay | 3997 | ASRA | 9/29/97 | - | 6.3 | 8 | 5 | 8.59 | 15.11 | 6.92 | 49.4 | 0.03 | 86.3 | - | 415 |
| Carey Bay | 3997 | ASRA | 9/29/97 | - | 6.3 | 7 | 6 | 7.93 | 14.51 | 6.8 | 47.5 | 0.03 | 78.7 | - | 419 |
| Carey Bay | 3997 | ASRA | 9/29/97 | - | 6.3 | 6 | 7 | 7.68 | 12.41 | 6.77 | 44.2 | 0.03 | 72.7 | - | 421 |
| Carey Bay | 3997 | ASRA | 9/29/97 | - | 6.3 | 5 | 8 | 7.63 | 12.32 | 6.77 | 44.2 | 0.03 | 72.1 | - | 421 |
| Carey Bay | 3997 | ASRA | 9/29/97 | - | 6.3 | 4 | 9 | 7.56 | 12.14 | 6.77 | 43.9 | 0.03 | 71.1 | - | 420 |
| Carey Bay | 3997 | ASRA | 9/29/97 | - | 6.3 | 3 | 10 | 7.3 | 10.38 | 6.75 | 42.4 | 0.03 | 65.9 | - | 421 |
| Carey Bay | 3997 | ASRA | 9/29/97 | - | 6.3 | 2 | 11 | 7.79 | 8.86 | 6.84 | 42.2 | 0.03 | 67.8 | - | 419 |
| Carey Bay | 3997 | ASRA | 9/29/97 | - | 6.3 | 1 | 12 | 8.33 | 8.37 | 6.93 | 42.3 | 0.03 | 71.6 | - | 416 |
| | | | | | | | | | | | | | | | |
| Carey Bay | 4297 | DBAS | 10/22/97 | - | 4.5 | 10 | 0.3 | 10.25 | 11.54 | 7.25 | 49 | 0.03 | 93.6 | - | 401 |
| Carey Bay | 4297 | DBAS | 10/22/97 | - | 4.5 | 9 | 1.7 | 10.24 | 11.56 | 7.23 | 49.1 | 0.03 | 93.6 | - | 402 |
| Carey Bay | 4297 | DBAS | 10/22/97 | - | 4.5 | 8 | 2.7 | 10.24 | 11.54 | 7.24 | 49.2 | 0.03 | 93.5 | - | 401 |
| Carey Bay | 4297 | DBAS | 10/22/97 | - | 4.5 | 7 | 3.7 | 10.21 | 11.54 | 7.21 | 49.2 | 0.03 | 93.2 | - | 403 |
| Carey Bay | 4297 | DBAS | 10/22/97 | - | 4.5 | 6 | 4.7 | 10.18 | 11.54 | 7.23 | 49.1 | 0.03 | 93 | - | 402 |
| Carey Bay | 4297 | DBAS | 10/22/97 | - | 4.5 | 5 | 5.7 | 10.19 | 11.53 | 7.22 | 49.2 | 0.03 | 93 | - | 402 |
| Carey Bay | 4297 | DBAS | 10/22/97 | - | 4.5 | 4 | 6.7 | 10.19 | 11.53 | 7.22 | 49.3 | 0.03 | 93 | - | 402 |
| Carey Bay | 4297 | DBAS | 10/22/97 | - | 4.5 | 3 | 7.7 | 10.19 | 11.53 | 7.22 | 49.3 | 0.03 | 93 | - | 402 |
| Carey Bay | 4297 | DBAS | 10/22/97 | - | 4.5 | 2 | 8.7 | 10.1 | 11.53 | 7.21 | 49.3 | 0.03 | 92.2 | - | 403 |
| Carey Bay | 4297 | DBAS | 10/22/97 | - | 4.5 | 1 | 9.7 | 10.05 | 11.51 | 7.19 | 49.2 | 0.03 | 91.7 | - | 404 |
| | | | | | | | | | | | | | | | |
| Carey Bay | 4497 | DBAS | 11/4/97 | - | 3.8 | 13 | 0.4 | 10.06 | 9.87 | 7.07 | 53.3 | 0.03 | 88 | 56 | 389 |
| Carey Bay | 4497 | DBAS | 11/4/97 | - | 3.8 | 12 | 1.5 | 10.34 | 9.55 | 7.09 | 53.1 | 0.03 | 89.8 | 215 | 390 |

| | | | | | | | | | | | | | | | |
|-----------|------|------|---------|---|-----|----|------|-------|------|------|------|------|------|-----|-----|
| Carey Bay | 4497 | DBAS | 11/4/97 | - | 3.8 | 11 | 2.5 | 10.46 | 9.5 | 7.12 | 52.9 | 0.03 | 90.7 | 54 | 390 |
| Carey Bay | 4497 | DBAS | 11/4/97 | - | 3.8 | 10 | 3.5 | 10.5 | 9.53 | 7.11 | 53 | 0.03 | 91.1 | 41 | 390 |
| Carey Bay | 4497 | DBAS | 11/4/97 | - | 3.8 | 9 | 4.5 | 10.5 | 9.45 | 7.12 | 52.9 | 0.03 | 90.9 | 56 | 389 |
| Carey Bay | 4497 | DBAS | 11/4/97 | - | 3.8 | 8 | 5.5 | 10.45 | 9.4 | 7.11 | 53 | 0.03 | 90.4 | 113 | 389 |
| Carey Bay | 4497 | DBAS | 11/4/97 | - | 3.8 | 7 | 6.5 | 10.28 | 9.33 | 7.06 | 53 | 0.03 | 88.8 | 103 | 390 |
| Carey Bay | 4497 | DBAS | 11/4/97 | - | 3.8 | 6 | 7.5 | 10.14 | 9.22 | 7.01 | 52.9 | 0.03 | 87.3 | 210 | 392 |
| Carey Bay | 4497 | DBAS | 11/4/97 | - | 3.8 | 5 | 8.5 | 9.65 | 8.89 | 6.93 | 53.1 | 0.03 | 82.5 | 101 | 393 |
| Carey Bay | 4497 | DBAS | 11/4/97 | - | 3.8 | 4 | 9.5 | 9.51 | 8.81 | 6.89 | 52.9 | 0.03 | 81.1 | 54 | 394 |
| Carey Bay | 4497 | DBAS | 11/4/97 | - | 3.8 | 3 | 10.6 | 9.08 | 8.58 | 6.86 | 52.4 | 0.03 | 77 | 37 | 395 |
| Carey Bay | 4497 | DBAS | 11/4/97 | - | 3.8 | 2 | 11.5 | 8.98 | 8.47 | 6.87 | 52.1 | 0.03 | 76 | 111 | 394 |

| Location | Phase | Samplers | Date | Time | Secchi (m) | Sequence | Depth (m) | Dissolved Oxygen (mg/L) | Temperature (C) | pH | Conductivity (µs/cm) | TDS | Saturated Dissolved Oxygen | Stabilization Time | Redox |
|----------------|-------|----------|---------|------|------------|----------|-----------|-------------------------|-----------------|------|----------------------|------|----------------------------|--------------------|-------|
| Conkling Point | 1597 | ASSS | 4/18/97 | - | 1.1 | 13 | 0.4 | 12.35 | 6.31 | 7.45 | 36.4 | 0.02 | 99.9 | - | 372 |
| Conkling Point | 1597 | ASSS | 4/18/97 | - | 1.1 | 12 | 1.9 | 12.27 | 6.23 | 7.43 | 36.4 | 0.02 | 99.2 | - | 373 |
| Conkling Point | 1597 | ASSS | 4/18/97 | - | 1.1 | 11 | 3.2 | 12.29 | 6.2 | 7.43 | 36.6 | 0.02 | 99.2 | - | 373 |
| Conkling Point | 1597 | ASSS | 4/18/97 | - | 1.1 | 10 | 4.5 | 12.27 | 6.13 | 7.43 | 36.7 | 0.02 | 98.7 | - | 373 |
| Conkling Point | 1597 | ASSS | 4/18/97 | - | 1.1 | 9 | 5.7 | 12.23 | 6.05 | 7.42 | 37 | 0.02 | 98.4 | - | 373 |
| Conkling Point | 1597 | ASSS | 4/18/97 | - | 1.1 | 8 | 7 | 12.26 | 5.97 | 7.41 | 37.4 | 0.02 | 98.4 | - | 374 |
| Conkling Point | 1597 | ASSS | 4/18/97 | - | 1.1 | 7 | 8.2 | 12.24 | 5.97 | 7.4 | 37.3 | 0.02 | 98.2 | - | 373 |
| Conkling Point | 1597 | ASSS | 4/18/97 | - | 1.1 | 6 | 9.4 | 12.26 | 5.9 | 7.4 | 37.6 | 0.02 | 98.2 | - | 373 |
| Conkling Point | 1597 | ASSS | 4/18/97 | - | 1.1 | 5 | 10.4 | 12.24 | 5.82 | 7.39 | 37.8 | 0.02 | 97.9 | - | 374 |
| Conkling Point | 1597 | ASSS | 4/18/97 | - | 1.1 | 4 | 11.8 | 12.21 | 5.62 | 7.38 | 38.2 | 0.02 | 97.1 | - | 374 |
| Conkling Point | 1597 | ASSS | 4/18/97 | - | 1.1 | 3 | 13.1 | 12.2 | 5.57 | 7.37 | 38.3 | 0.02 | 96.9 | - | 374 |
| Conkling Point | 1597 | ASSS | 4/18/97 | - | 1.1 | 2 | 14.4 | 12.14 | 5.51 | 7.36 | 38.2 | 0.02 | 96.3 | - | 374 |
| Conkling Point | 1597 | ASSS | 4/18/97 | - | 1.1 | 1 | 15.9 | 12.16 | 5.29 | 7.36 | 38.5 | 0.02 | 95.9 | - | 374 |
| Conkling Point | 1997 | DBAC | 5/16/97 | - | 0.8 | 12 | 0.2 | 10.99 | 11.35 | 6.99 | 28 | 0.02 | 99.6 | - | 367 |
| Conkling Point | 1997 | DBAC | 5/16/97 | - | 0.8 | 11 | 2.1 | 11.1 | 9.61 | 6.98 | 27.8 | 0.02 | 96.7 | - | 369 |
| Conkling Point | 1997 | DBAC | 5/16/97 | - | 0.8 | 10 | 3.9 | 11.09 | 9.46 | 7 | 27.8 | 0.02 | 96.2 | - | 368 |
| Conkling Point | 1997 | DBAC | 5/16/97 | - | 0.8 | 9 | 5.5 | 11.08 | 9.42 | 6.98 | 27.7 | 0.02 | 96 | - | 369 |
| Conkling Point | 1997 | DBAC | 5/16/97 | - | 0.8 | 8 | 7 | 11.05 | 9.35 | 6.97 | 27.9 | 0.02 | 95.6 | - | 369 |
| Conkling Point | 1997 | DBAC | 5/16/97 | - | 0.8 | 7 | 8.6 | 11.04 | 9.28 | 6.98 | 28.2 | 0.02 | 95.3 | - | 368 |
| Conkling Point | 1997 | DBAC | 5/16/97 | - | 0.8 | 6 | 10.1 | 11.03 | 9.28 | 6.97 | 28.2 | 0.02 | 95.3 | - | 368 |
| Conkling Point | 1997 | DBAC | 5/16/97 | - | 0.8 | 5 | 11.6 | 11.01 | 9.15 | 6.97 | 28.6 | 0.02 | 94.7 | - | 368 |
| Conkling Point | 1997 | DBAC | 5/16/97 | - | 0.8 | 4 | 13 | 11.03 | 8.35 | 6.95 | 31.4 | 0.02 | 93.1 | - | 369 |
| Conkling Point | 1997 | DBAC | 5/16/97 | - | 0.8 | 3 | 14.5 | 11.15 | 7.45 | 6.93 | 34.8 | 0.02 | 92.1 | - | 369 |
| Conkling Point | 1997 | DBAC | 5/16/97 | - | 0.8 | 2 | 16 | 10.71 | 6.08 | 6.89 | 41 | 0.03 | 85.6 | - | 372 |
| Conkling Point | 1997 | DBAC | 5/16/97 | - | 0.8 | 1 | 17.5 | 10.51 | 5.9 | 6.89 | 44.8 | 0.03 | 83.4 | - | 370 |
| Conkling Point | 2197 | DBSS | 5/29/97 | - | 1.8 | 12 | 0.2 | 11.09 | 11.41 | 7.01 | 26.9 | 0.02 | 101 | - | 362 |
| Conkling Point | 2197 | DBSS | 5/29/97 | - | 1.8 | 11 | 1.4 | 11.11 | 10.79 | 7.02 | 26.9 | 0.02 | 99.7 | - | 363 |
| Conkling Point | 2197 | DBSS | 5/29/97 | - | 1.8 | 10 | 2.9 | 11.16 | 10.36 | 7 | 26.8 | 0.02 | 99 | - | 364 |

| | | | | | | | | | | | | | | | |
|----------------|------|------|---------|---|-----|----|------|-------|-------|------|------|------|-------|---|-----|
| Conkling Point | 2197 | DBSS | 5/29/97 | - | 1.8 | 9 | 4.5 | 11.12 | 10.22 | 6.98 | 26.8 | 0.02 | 98.4 | - | 365 |
| Conkling Point | 2197 | DBSS | 5/29/97 | - | 1.8 | 8 | 6 | 11.12 | 10.05 | 6.96 | 26.9 | 0.02 | 98 | - | 365 |
| Conkling Point | 2197 | DBSS | 5/29/97 | - | 1.8 | 7 | 7.4 | 11.05 | 9.74 | 6.94 | 26.8 | 0.02 | 96.6 | - | 364 |
| Conkling Point | 2197 | DBSS | 5/29/97 | - | 1.8 | 6 | 8.9 | 11.01 | 9.61 | 6.93 | 26.9 | 0.02 | 96 | - | 364 |
| Conkling Point | 2197 | DBSS | 5/29/97 | - | 1.8 | 5 | 10.4 | 10.97 | 9.43 | 6.92 | 26.9 | 0.02 | 95.3 | - | 363 |
| Conkling Point | 2197 | DBSS | 5/29/97 | - | 1.8 | 4 | 12.1 | 10.89 | 8.96 | 6.91 | 27.2 | 0.02 | 93.5 | - | 362 |
| Conkling Point | 2197 | DBSS | 5/29/97 | - | 1.8 | 3 | 13.4 | 10.75 | 8.71 | 6.9 | 27.8 | 0.02 | 91.8 | - | 362 |
| Conkling Point | 2197 | DBSS | 5/29/97 | - | 1.8 | 2 | 15 | 10.75 | 7.97 | 6.88 | 31.3 | 0.02 | 90.1 | - | 361 |
| Conkling Point | 2197 | DBSS | 5/29/97 | - | 1.8 | 1 | 16.8 | 10.29 | 7.01 | 6.86 | 36 | 0.02 | 84.3 | - | 360 |
| | | | | | | | | | | | | | | | |
| Conkling Point | 2397 | DBAS | 6/11/97 | - | 2 | 12 | 0.2 | 10.9 | 15.61 | 7.09 | 30.8 | 0.02 | 109.4 | - | 395 |
| Conkling Point | 2397 | DBAS | 6/11/97 | - | 2 | 11 | 1 | 10.7 | 14.08 | 7.08 | 30.1 | 0.02 | 103.8 | - | 396 |
| Conkling Point | 2397 | DBAS | 6/11/97 | - | 2 | 10 | 2.5 | 10.95 | 12.4 | 7.06 | 29.4 | 0.02 | 102.2 | - | 398 |
| Conkling Point | 2397 | DBAS | 6/11/97 | - | 2 | 9 | 4 | 10.98 | 11.91 | 7.04 | 29.1 | 0.02 | 101.5 | - | 398 |
| Conkling Point | 2397 | DBAS | 6/11/97 | - | 2 | 8 | 5.3 | 10.87 | 11.77 | 6.99 | 29.2 | 0.02 | 100.1 | - | 399 |
| Conkling Point | 2397 | DBAS | 6/11/97 | - | 2 | 7 | 6.9 | 10.85 | 10.68 | 6.99 | 29.6 | 0.02 | 97.3 | - | 400 |
| Conkling Point | 2397 | DBAS | 6/11/97 | - | 2 | 6 | 8.3 | 10.82 | 9.94 | 6.98 | 29.1 | 0.02 | 95.5 | - | 399 |
| Conkling Point | 2397 | DBAS | 6/11/97 | - | 2 | 5 | 9.9 | 10.78 | 9.78 | 6.97 | 28.9 | 0.02 | 94.7 | - | 399 |
| Conkling Point | 2397 | DBAS | 6/11/97 | - | 2 | 4 | 11.4 | 10.73 | 9.33 | 6.96 | 29.8 | 0.02 | 93.3 | - | 398 |
| Conkling Point | 2397 | DBAS | 6/11/97 | - | 2 | 3 | 13 | 10.53 | 8.72 | 6.94 | 32.2 | 0.02 | 90.2 | - | 398 |
| Conkling Point | 2397 | DBAS | 6/11/97 | - | 2 | 2 | 14.5 | 10.48 | 8.47 | 6.93 | 33.3 | 0.02 | 89.3 | - | 398 |
| Conkling Point | 2397 | DBAS | 6/11/97 | - | 2 | 1 | 16.2 | 10.17 | 7.86 | 6.93 | 37.1 | 0.02 | 85.3 | - | 395 |
| | | | | | | | | | | | | | | | |
| Conkling Point | 2597 | DBSS | 6/26/97 | - | 2.5 | 16 | 0.4 | 10.79 | 15.18 | 7.23 | 30.6 | 0.02 | 107.1 | - | 421 |
| Conkling Point | 2597 | DBSS | 6/26/97 | - | 2.5 | 15 | 1 | 10.79 | 15.14 | 7.23 | 30.6 | 0.02 | 107.1 | - | 422 |
| Conkling Point | 2597 | DBSS | 6/26/97 | - | 2.5 | 14 | 2.2 | 10.8 | 14.94 | 7.21 | 30.7 | 0.02 | 106.7 | - | 424 |
| Conkling Point | 2597 | DBSS | 6/26/97 | - | 2.5 | 13 | 3.3 | 10.82 | 14.66 | 7.15 | 31 | 0.02 | 106.2 | - | 426 |
| Conkling Point | 2597 | DBSS | 6/26/97 | - | 2.5 | 12 | 4.2 | 10.75 | 14.46 | 7.11 | 30.9 | 0.02 | 105 | - | 427 |
| Conkling Point | 2597 | DBSS | 6/26/97 | - | 2.5 | 11 | 5.2 | 10.87 | 13.07 | 7.06 | 31.2 | 0.02 | 103 | - | 430 |
| Conkling Point | 2597 | DBSS | 6/26/97 | - | 2.5 | 10 | 6.2 | 10.75 | 12.66 | 7.02 | 30.8 | 0.02 | 101 | - | 431 |
| Conkling Point | 2597 | DBSS | 6/26/97 | - | 2.5 | 9 | 7.2 | 10.78 | 12.17 | 7 | 30.6 | 0.02 | 100.1 | - | 431 |
| Conkling Point | 2597 | DBSS | 6/26/97 | - | 2.5 | 8 | 8.2 | 10.73 | 12 | 6.95 | 30.8 | 0.02 | 99.3 | - | 431 |
| Conkling Point | 2597 | DBSS | 6/26/97 | - | 2.5 | 7 | 9.3 | 10.02 | 10.77 | 6.9 | 29.5 | 0.02 | 90 | - | 434 |
| Conkling Point | 2597 | DBSS | 6/26/97 | - | 2.5 | 6 | 10.2 | 10.21 | 9.2 | 6.83 | 31.2 | 0.02 | 88.4 | - | 435 |
| Conkling Point | 2597 | DBSS | 6/26/97 | - | 2.5 | 5 | 11.3 | 9.97 | 8.66 | 6.8 | 32.7 | 0.02 | 85.2 | - | 435 |
| Conkling Point | 2597 | DBSS | 6/26/97 | - | 2.5 | 4 | 12.4 | 9.36 | 8.27 | 6.78 | 35.8 | 0.02 | 79.3 | - | 436 |
| Conkling Point | 2597 | DBSS | 6/26/97 | - | 2.5 | 3 | 13.3 | 9.52 | 7.91 | 6.8 | 37.2 | 0.02 | 79.9 | - | 434 |
| Conkling Point | 2597 | DBSS | 6/26/97 | - | 2.5 | 2 | 14.4 | 9.05 | 7.56 | 6.8 | 38.9 | 0.02 | 75.3 | - | 434 |
| Conkling Point | 2597 | DBSS | 6/26/97 | - | 2.5 | 1 | 15.3 | 8.74 | 7.43 | 6.82 | 40.2 | 0.03 | 72.5 | - | 433 |
| | | | | | | | | | | | | | | | |
| Conkling Point | 2797 | DBSS | 7/8/97 | - | 2.8 | 16 | 0.3 | 10.17 | 18.54 | 7.16 | 36.5 | 0.02 | ***** | - | 434 |
| Conkling Point | 2797 | DBSS | 7/8/97 | - | 2.8 | 15 | 1.1 | 10.15 | 18 | 7.13 | 35.6 | 0.02 | ***** | - | 436 |
| Conkling Point | 2797 | DBSS | 7/8/97 | - | 2.8 | 14 | 2 | 10.31 | 17.25 | 7.11 | 36.3 | 0.02 | ***** | - | 437 |
| Conkling Point | 2797 | DBSS | 7/8/97 | - | 2.8 | 13 | 3 | 10.36 | 16.56 | 7.09 | 36.9 | 0.02 | ***** | - | 438 |

| | | | | | | | | | | | | | | | |
|----------------|------|------|---------|---|-----|----|------|-------|-------|------|------|------|-------|---|-----|
| Conkling Point | 2797 | DBSS | 7/8/97 | - | 2.8 | 12 | 3.9 | 10.45 | 16.12 | 7.06 | 36.7 | 0.02 | ***** | - | 439 |
| Conkling Point | 2797 | DBSS | 7/8/97 | - | 2.8 | 11 | 5 | 10.41 | 15.54 | 7.02 | 36.3 | 0.02 | ***** | - | 440 |
| Conkling Point | 2797 | DBSS | 7/8/97 | - | 2.8 | 10 | 6 | 10.41 | 14.52 | 7 | 35.3 | 0.02 | ***** | - | 441 |
| Conkling Point | 2797 | DBSS | 7/8/97 | - | 2.8 | 9 | 7.1 | 10.1 | 13.28 | 6.92 | 33.6 | 0.02 | 95.9 | - | 444 |
| Conkling Point | 2797 | DBSS | 7/8/97 | - | 2.8 | 8 | 8 | 10.03 | 12.71 | 6.89 | 33.8 | 0.02 | 93.9 | - | 445 |
| Conkling Point | 2797 | DBSS | 7/8/97 | - | 2.8 | 7 | 9 | 9.76 | 12.11 | 6.87 | 33.3 | 0.02 | 90.2 | - | 446 |
| Conkling Point | 2797 | DBSS | 7/8/97 | - | 2.8 | 6 | 10 | 9.26 | 11.34 | 6.84 | 33.2 | 0.02 | 84 | - | 447 |
| Conkling Point | 2797 | DBSS | 7/8/97 | - | 2.8 | 5 | 11 | 8.94 | 10.69 | 6.84 | 33.3 | 0.02 | 79.9 | - | 447 |
| Conkling Point | 2797 | DBSS | 7/8/97 | - | 2.8 | 4 | 11.9 | 8.68 | 9.59 | 6.84 | 35 | 0.02 | 75.5 | - | 448 |
| Conkling Point | 2797 | DBSS | 7/8/97 | - | 2.8 | 3 | 12.8 | 8.73 | 8.72 | 6.86 | 36.7 | 0.02 | 74.5 | - | 447 |
| Conkling Point | 2797 | DBSS | 7/8/97 | - | 2.8 | 2 | 13.9 | 8.74 | 8.45 | 6.88 | 37.7 | 0.02 | 73.9 | - | 448 |
| Conkling Point | 2797 | DBSS | 7/8/97 | - | 2.8 | 1 | 14.9 | 8.73 | 8.22 | 6.92 | 38.6 | 0.02 | 73.6 | - | 446 |
| | | | | | | | | | | | | | | | |
| Conkling Point | 2997 | SSJD | 7/24/97 | - | 4.5 | 10 | 0.4 | 9.56 | 21.37 | 7.46 | 39.7 | 0.03 | ***** | - | 408 |
| Conkling Point | 2997 | SSJD | 7/24/97 | - | 4.5 | 9 | 2 | 9.59 | 20.79 | 7.37 | 37.6 | 0.02 | ***** | - | 411 |
| Conkling Point | 2997 | SSJD | 7/24/97 | - | 4.5 | 8 | 3.5 | 10.4 | 18.18 | 7.26 | 38.4 | 0.02 | ***** | - | 417 |
| Conkling Point | 2997 | SSJD | 7/24/97 | - | 4.5 | 7 | 5 | 10.43 | 17.3 | 7.13 | 38 | 0.02 | ***** | - | 420 |
| Conkling Point | 2997 | SSJD | 7/24/97 | - | 4.5 | 6 | 6.5 | 10 | 16.31 | 7.05 | 35.9 | 0.02 | ***** | - | 422 |
| Conkling Point | 2997 | SSJD | 7/24/97 | - | 4.5 | 5 | 8 | 10.02 | 15.41 | 6.93 | 34.8 | 0.02 | 99.8 | - | 427 |
| Conkling Point | 2997 | SSJD | 7/24/97 | - | 4.5 | 4 | 9.5 | 9.46 | 12.97 | 6.83 | 32.6 | 0.02 | 89.2 | - | 431 |
| Conkling Point | 2997 | SSJD | 7/24/97 | - | 4.5 | 3 | 11 | 9.31 | 12.3 | 6.77 | 32 | 0.02 | 86.4 | - | 433 |
| Conkling Point | 2997 | SSJD | 7/24/97 | - | 4.5 | 2 | 12.5 | 8.63 | 9.87 | 6.74 | 33.2 | 0.02 | 75.8 | - | 435 |
| Conkling Point | 2997 | SSJD | 7/24/97 | - | 4.5 | 1 | 14 | 8.17 | 8.72 | 6.74 | 36.4 | 0.02 | 69.7 | - | 435 |
| | | | | | | | | | | | | | | | |
| Conkling Point | 3197 | DBSS | 8/5/97 | - | 4.1 | 15 | 0.3 | 9.57 | 24 | 8.18 | 41.5 | 0.03 | 112.2 | - | 329 |
| Conkling Point | 3197 | DBSS | 8/5/97 | - | 4.1 | 14 | 1.8 | 9.56 | 22.25 | 7.5 | 43.2 | 0.03 | 108.4 | - | 350 |
| Conkling Point | 3197 | DBSS | 8/5/97 | - | 4.1 | 13 | 2.7 | 9.49 | 22.04 | 7.46 | 42.3 | 0.03 | 107.2 | - | 350 |
| Conkling Point | 3197 | DBSS | 8/5/97 | - | 4.1 | 12 | 3.6 | 9.48 | 21.7 | 7.39 | 41.4 | 0.03 | 106.4 | - | 352 |
| Conkling Point | 3197 | DBSS | 8/5/97 | - | 4.1 | 11 | 4.7 | 9.88 | 21.04 | 7.33 | 43.5 | 0.03 | 109.5 | - | 352 |
| Conkling Point | 3197 | DBSS | 8/5/97 | - | 4.1 | 10 | 5.6 | 9.4 | 20.23 | 7.19 | 40.7 | 0.03 | 102.5 | - | 356 |
| Conkling Point | 3197 | DBSS | 8/5/97 | - | 4.1 | 9 | 6.7 | 9.32 | 19.21 | 7.13 | 39.5 | 0.03 | 99.6 | - | 356 |
| Conkling Point | 3197 | DBSS | 8/5/97 | - | 4.1 | 8 | 7.7 | 9.69 | 18.15 | 7.13 | 37.4 | 0.02 | 101.4 | - | 354 |
| Conkling Point | 3197 | DBSS | 8/5/97 | - | 4.1 | 7 | 8.7 | 10.04 | 17.18 | 7.09 | 36.3 | 0.02 | 103 | - | 353 |
| Conkling Point | 3197 | DBSS | 8/5/97 | - | 4.1 | 6 | 9.7 | 9.28 | 15.82 | 6.99 | 35.4 | 0.02 | 92.4 | - | 354 |
| Conkling Point | 3197 | DBSS | 8/5/97 | - | 4.1 | 5 | 10.7 | 8.73 | 14.39 | 6.93 | 34.7 | 0.02 | 84.3 | - | 354 |
| Conkling Point | 3197 | DBSS | 8/5/97 | - | 4.1 | 4 | 11.8 | 8.22 | 12.28 | 6.91 | 33.7 | 0.02 | 75.9 | - | 350 |
| Conkling Point | 3197 | DBSS | 8/5/97 | - | 4.1 | 3 | 12.6 | 8.21 | 11.23 | 6.93 | 34.5 | 0.02 | 73.8 | - | 346 |
| Conkling Point | 3197 | DBSS | 8/5/97 | - | 4.1 | 2 | 13.7 | 8 | 10.16 | 6.95 | 35.9 | 0.02 | 70.2 | - | 342 |
| Conkling Point | 3197 | DBSS | 8/5/97 | - | 4.1 | 1 | 14.8 | 7.22 | 9.44 | 7.02 | 38.4 | 0.02 | 62.2 | - | 388 |
| | | | | | | | | | | | | | | | |
| Conkling Point | 3297 | DBSS | 8/14/97 | - | 5 | 11 | 0.3 | 8.64 | 22.75 | 7.98 | 44.7 | 0.03 | 99.5 | - | 368 |
| Conkling Point | 3297 | DBSS | 8/14/97 | - | 5 | 10 | 2.1 | 8.73 | 22.56 | 8.11 | 44.7 | 0.03 | 100.3 | - | 361 |
| Conkling Point | 3297 | DBSS | 8/14/97 | - | 5 | 9 | 3.6 | 8.81 | 22.33 | 7.87 | 44.3 | 0.03 | 100.7 | - | 363 |
| Conkling Point | 3297 | DBSS | 8/14/97 | - | 5 | 8 | 5 | 8.57 | 21.86 | 7.31 | 45.2 | 0.03 | 97.1 | - | 384 |

| | | | | | | | | | | | | | | | |
|----------------|------|------|---------|---|-----|----|------|------|-------|------|------|------|-------|---|-----|
| Conkling Point | 3297 | DBSS | 8/14/97 | - | 5 | 7 | 6.5 | 8.56 | 21.26 | 7.14 | 46.4 | 0.03 | 95.9 | - | 389 |
| Conkling Point | 3297 | DBSS | 8/14/97 | - | 5 | 6 | 8 | 8.56 | 20.65 | 7.06 | 43.6 | 0.03 | 94.7 | - | 391 |
| Conkling Point | 3297 | DBSS | 8/14/97 | - | 5 | 5 | 9.6 | 8.58 | 18.75 | 6.94 | 39 | 0.03 | 91.4 | - | 396 |
| Conkling Point | 3297 | DBSS | 8/14/97 | - | 5 | 4 | 11 | 7.69 | 15.02 | 6.9 | 35.7 | 0.02 | 75.8 | - | 399 |
| Conkling Point | 3297 | DBSS | 8/14/97 | - | 5 | 3 | 12.6 | 6.19 | 15.07 | 6.87 | 36.5 | 0.02 | 77 | - | 399 |
| Conkling Point | 3297 | DBSS | 8/14/97 | - | 5 | 2 | 14 | 6.57 | 9.2 | 6.95 | 39.1 | 0.03 | 56.7 | - | 401 |
| Conkling Point | 3297 | DBSS | 8/14/97 | - | 5 | 1 | 15.6 | 6.79 | 8.9 | 7.08 | 39.3 | 0.03 | 58.2 | - | 398 |
| | | | | | | | | | | | | | | | |
| Conkling Point | 3497 | DBSS | 8/27/97 | - | 7.2 | 11 | 0.4 | 9.02 | 21.92 | 7.53 | 50 | 0.03 | 102.3 | - | 346 |
| Conkling Point | 3497 | DBSS | 8/27/97 | - | 7.2 | 10 | 2 | 9.03 | 21.7 | 7.51 | 50 | 0.03 | 102.1 | - | 346 |
| Conkling Point | 3497 | DBSS | 8/27/97 | - | 7.2 | 9 | 3.6 | 9 | 21.56 | 7.45 | 50 | 0.03 | 101.6 | - | 347 |
| Conkling Point | 3497 | DBSS | 8/27/97 | - | 7.2 | 8 | 5 | 9.01 | 21.44 | 7.4 | 50.3 | 0.03 | 101.4 | - | 349 |
| Conkling Point | 3497 | DBSS | 8/27/97 | - | 7.2 | 7 | 6.6 | 8.84 | 21.14 | 7.33 | 49.2 | 0.03 | 98.9 | - | 350 |
| Conkling Point | 3497 | DBSS | 8/27/97 | - | 7.2 | 6 | 8 | 8.73 | 21 | 7.17 | 49.5 | 0.03 | 97.4 | - | 355 |
| Conkling Point | 3497 | DBSS | 8/27/97 | - | 7.2 | 5 | 9.5 | 8.19 | 20.49 | 6.96 | 49.5 | 0.03 | 90.5 | - | 363 |
| Conkling Point | 3497 | DBSS | 8/27/97 | - | 7.2 | 4 | 11 | 7.84 | 17.3 | 6.89 | 42.7 | 0.03 | 81.2 | - | 368 |
| Conkling Point | 3497 | DBSS | 8/27/97 | - | 7.2 | 3 | 12.6 | 8.37 | 15.61 | 6.88 | 40.2 | 0.03 | 83.6 | - | 368 |
| Conkling Point | 3497 | DBSS | 8/27/97 | - | 7.2 | 2 | 14.1 | 7.65 | 12.49 | 6.86 | 39.9 | 0.03 | 71.3 | - | 369 |
| Conkling Point | 3497 | DBSS | 8/27/97 | - | 7.2 | 1 | 15.8 | 6.43 | 9.48 | 6.87 | 42.8 | 0.03 | 56 | - | 369 |
| | | | | | | | | | | | | | | | |
| Conkling Point | 3797 | ASRP | 9/17/97 | - | 3 | 16 | 0.2 | 8.46 | 14.83 | 6.87 | 47.6 | 0.03 | 84.4 | - | 392 |
| Conkling Point | 3797 | ASRP | 9/17/97 | - | 3 | 15 | 1 | 8.42 | 14.86 | 6.86 | 47.6 | 0.03 | 84.1 | - | 392 |
| Conkling Point | 3797 | ASRP | 9/17/97 | - | 3 | 14 | 2 | 8.3 | 14.58 | 6.79 | 46.9 | 0.03 | 82.4 | - | 395 |
| Conkling Point | 3797 | ASRP | 9/17/97 | - | 3 | 13 | 3 | 7.76 | 13.75 | 6.68 | 45.7 | 0.03 | 76.9 | - | 399 |
| Conkling Point | 3797 | ASRP | 9/17/97 | - | 3 | 12 | 4 | 7.6 | 10.69 | 6.62 | 42.6 | 0.03 | 69.1 | - | 404 |
| Conkling Point | 3797 | ASRP | 9/17/97 | - | 3 | 11 | 5 | 7.76 | 9.81 | 6.62 | 42.7 | 0.03 | 69.1 | - | 404 |
| Conkling Point | 3797 | ASRP | 9/17/97 | - | 3 | 10 | 6 | 7.91 | 9.5 | 6.63 | 42.7 | 0.03 | 69.9 | - | 403 |
| Conkling Point | 3797 | ASRP | 9/17/97 | - | 3 | 9 | 7 | 7.78 | 9.43 | 6.63 | 43.1 | 0.03 | 68.6 | - | 402 |
| Conkling Point | 3797 | ASRP | 9/17/97 | - | 3 | 8 | 8 | 7.61 | 9.37 | 6.63 | 42.9 | 0.03 | 67.2 | - | 402 |
| Conkling Point | 3797 | ASRP | 9/17/97 | - | 3 | 7 | 9 | 7.5 | 9.06 | 6.62 | 43 | 0.03 | 65.7 | - | 401 |
| Conkling Point | 3797 | ASRP | 9/17/97 | - | 3 | 6 | 10 | 7.18 | 8.74 | 6.63 | 43.3 | 0.03 | 62.5 | - | 400 |
| Conkling Point | 3797 | ASRP | 9/17/97 | - | 3 | 5 | 11 | 7.35 | 8.68 | 6.66 | 43.4 | 0.03 | 63.7 | - | 398 |
| Conkling Point | 3797 | ASRP | 9/17/97 | - | 3 | 4 | 12 | 8.42 | 8.29 | 6.71 | 43.8 | 0.03 | 72.1 | - | 395 |
| Conkling Point | 3797 | ASRP | 9/17/97 | - | 3 | 3 | 13 | 8.59 | 8.2 | 6.74 | 43.8 | 0.03 | 74.2 | - | 392 |
| Conkling Point | 3797 | ASRP | 9/17/97 | - | 3 | 2 | 14.1 | 8.63 | 8.19 | 6.76 | 43.8 | 0.03 | 73.9 | - | 391 |
| Conkling Point | 3797 | ASRP | 9/17/97 | - | 3 | 1 | 15.2 | 8.7 | 8.19 | 6.79 | 43.8 | 0.03 | 74.5 | - | 389 |
| | | | | | | | | | | | | | | | |
| Conkling Point | 3997 | ASRA | 9/29/97 | - | 6.2 | 10 | 0.2 | 9.53 | 16.26 | 7.21 | 50.8 | 0.03 | 98.2 | - | 388 |
| Conkling Point | 3997 | ASRA | 9/29/97 | - | 6.2 | 9 | 1.5 | 9.3 | 15.79 | 7.13 | 50.3 | 0.03 | 94.8 | - | 391 |
| Conkling Point | 3997 | ASRA | 9/29/97 | - | 6.2 | 8 | 3 | 9.24 | 15.61 | 7.06 | 50.2 | 0.03 | 93.9 | - | 392 |
| Conkling Point | 3997 | ASRA | 9/29/97 | - | 6.2 | 7 | 4.5 | 8.78 | 14.69 | 6.94 | 48.9 | 0.03 | 87.4 | - | 395 |
| Conkling Point | 3997 | ASRA | 9/29/97 | - | 6.2 | 6 | 6 | 8.32 | 13.67 | 6.83 | 47.1 | 0.03 | 81 | - | 397 |
| Conkling Point | 3997 | ASRA | 9/29/97 | - | 6.2 | 5 | 7.5 | 7.78 | 12.38 | 6.77 | 44.3 | 0.03 | 73.6 | - | 399 |
| Conkling Point | 3997 | ASRA | 9/29/97 | - | 6.2 | 4 | 9 | 7.84 | 10.9 | 6.76 | 44 | 0.03 | 71.7 | - | 398 |

| | | | | | | | | | | | | | | | |
|----------------|------|------|----------|---|-----|----|------|-------|-------|------|------|------|------|-------|-----|
| Conkling Point | 3997 | ASRA | 9/29/97 | - | 6.2 | 3 | 10.5 | 7.38 | 9.64 | 6.77 | 42.2 | 0.03 | 65.1 | - | 397 |
| Conkling Point | 3997 | ASRA | 9/29/97 | - | 6.2 | 2 | 12 | 7.86 | 8.4 | 6.82 | 42.3 | 0.03 | 67.6 | - | 395 |
| Conkling Point | 3997 | ASRA | 9/29/97 | - | 6.2 | 1 | 13.4 | 8.18 | 8.22 | 6.92 | 42.4 | 0.03 | 70.1 | - | 389 |
| Conkling Point | 4297 | DBAS | 10/22/97 | - | 4.1 | 16 | 0.2 | 10.3 | 11.54 | 7.28 | 48 | 0.03 | 94 | - | 378 |
| Conkling Point | 4297 | DBAS | 10/22/97 | - | 4.1 | 15 | 1 | 10.28 | 11.56 | 7.31 | 49 | 0.03 | 93.9 | - | 376 |
| Conkling Point | 4297 | DBAS | 10/22/97 | - | 4.1 | 14 | 2 | 10.27 | 11.57 | 7.29 | 49.1 | 0.03 | 93.8 | - | 377 |
| Conkling Point | 4297 | DBAS | 10/22/97 | - | 4.1 | 13 | 3 | 10.26 | 11.54 | 7.31 | 49.2 | 0.03 | 93.7 | - | 376 |
| Conkling Point | 4297 | DBAS | 10/22/97 | - | 4.1 | 12 | 4 | 10.28 | 11.54 | 7.29 | 49.3 | 0.03 | 93.8 | - | 376 |
| Conkling Point | 4297 | DBAS | 10/22/97 | - | 4.1 | 11 | 5 | 10.25 | 11.54 | 7.29 | 49.1 | 0.03 | 93.6 | - | 376 |
| Conkling Point | 4297 | DBAS | 10/22/97 | - | 4.1 | 10 | 6 | 10.28 | 11.54 | 7.29 | 49.2 | 0.03 | 93.8 | - | 376 |
| Conkling Point | 4297 | DBAS | 10/22/97 | - | 4.1 | 9 | 7 | 10.26 | 11.54 | 7.28 | 49.3 | 0.03 | 93.7 | - | 376 |
| Conkling Point | 4297 | DBAS | 10/22/97 | - | 4.1 | 8 | 8 | 10.25 | 11.54 | 7.29 | 49.3 | 0.03 | 93.6 | - | 375 |
| Conkling Point | 4297 | DBAS | 10/22/97 | - | 4.1 | 7 | 9 | 10.23 | 11.53 | 7.27 | 49.1 | 0.03 | 93.4 | - | 375 |
| Conkling Point | 4297 | DBAS | 10/22/97 | - | 4.1 | 6 | 10 | 10.24 | 11.53 | 7.27 | 49.1 | 0.03 | 93.5 | - | 375 |
| Conkling Point | 4297 | DBAS | 10/22/97 | - | 4.1 | 5 | 11 | 10.25 | 11.51 | 7.31 | 49.3 | 0.03 | 93.5 | - | 372 |
| Conkling Point | 4297 | DBAS | 10/22/97 | - | 4.1 | 4 | 12 | 10.26 | 11.5 | 7.3 | 49.3 | 0.03 | 93.4 | - | 372 |
| Conkling Point | 4297 | DBAS | 10/22/97 | - | 4.1 | 3 | 13 | 10.25 | 11.43 | 7.3 | 49.3 | 0.03 | 93.4 | - | 372 |
| Conkling Point | 4297 | DBAS | 10/22/97 | - | 4.1 | 2 | 14 | 10.63 | 11.15 | 7.31 | 49.5 | 0.03 | 96.2 | - | 371 |
| Conkling Point | 4297 | DBAS | 10/22/97 | - | 4.1 | 1 | 14.9 | 10.61 | 10.86 | 7.32 | 50 | 0.03 | 95.3 | - | 370 |
| Conkling Point | 4497 | DBAS | 11/3/97 | - | 3.1 | 11 | 0.3 | 10.59 | 7.04 | 9.79 | 53 | 0.03 | 93.2 | ***** | 441 |
| Conkling Point | 4497 | DBAS | 11/3/97 | - | 3.1 | 10 | 1.5 | 10.54 | 7.05 | 9.74 | 53 | 0.03 | 92.5 | ***** | 441 |
| Conkling Point | 4497 | DBAS | 11/3/97 | - | 3.1 | 9 | 3 | 10.52 | 7.02 | 9.6 | 53.1 | 0.03 | 92 | ***** | 442 |
| Conkling Point | 4497 | DBAS | 11/3/97 | - | 3.1 | 8 | 4.5 | 10.75 | 6.99 | 9.24 | 52.9 | 0.03 | 93.3 | ***** | 441 |
| Conkling Point | 4497 | DBAS | 11/3/97 | - | 3.1 | 7 | 6 | 10.97 | 6.93 | 8.74 | 53.7 | 0.03 | 94 | ***** | 440 |
| Conkling Point | 4497 | DBAS | 11/3/97 | - | 3.1 | 6 | 7.5 | 9.25 | 6.79 | 8.48 | 52.9 | 0.03 | 78.8 | ***** | 442 |
| Conkling Point | 4497 | DBAS | 11/3/97 | - | 3.1 | 5 | 9 | 9.27 | 6.77 | 8.48 | 52.8 | 0.03 | 78.9 | ***** | 441 |
| Conkling Point | 4497 | DBAS | 11/3/97 | - | 3.1 | 4 | 10.5 | 9.32 | 6.75 | 8.43 | 52.5 | 0.03 | 79.3 | ***** | 439 |
| Conkling Point | 4497 | DBAS | 11/3/97 | - | 3.1 | 3 | 12 | 8.81 | 6.66 | 7.73 | 48.8 | 0.03 | 73.7 | ***** | 441 |
| Conkling Point | 4497 | DBAS | 11/3/97 | - | 3.1 | 2 | 13.6 | 8.64 | 6.66 | 7.41 | 47 | 0.03 | 71.6 | ***** | 439 |
| Conkling Point | 4497 | DBAS | 11/3/97 | - | 3.1 | 1 | 14.9 | 8.65 | 6.71 | 7.37 | 46.7 | 0.03 | 71.7 | ***** | 441 |

| Location | Phase | Samplers | Date | Time | Secchi (m) | Sequence | Depth (m) | Dissolved Oxygen (mg/L) | Temperature (C) | pH | Conductivity (µs/cm) | TDS | Saturated Dissolved Oxygen | Stabilization Time | Redox |
|-------------|-------|----------|---------|------|------------|----------|-----------|-------------------------|-----------------|------|----------------------|------|----------------------------|--------------------|-------|
| Hidden Lake | 1597 | ASSS | 4/18/97 | - | 1.9 | 5 | 0.2 | 12.49 | 6.73 | 7.46 | 38.6 | 0.02 | ***** | - | 374 |
| Hidden Lake | 1597 | ASSS | 4/18/97 | - | 1.9 | 4 | 2.3 | 12.51 | 6.31 | 7.45 | 38.4 | 0.02 | ***** | - | 375 |
| Hidden Lake | 1597 | ASSS | 4/18/97 | - | 1.9 | 3 | 3.7 | 12.54 | 6.28 | 7.45 | 38.4 | 0.02 | ***** | - | 375 |
| Hidden Lake | 1597 | ASSS | 4/18/97 | - | 1.9 | 2 | 5.3 | 12.47 | 6.26 | 7.43 | 38.5 | 0.02 | ***** | - | 375 |
| Hidden Lake | 1597 | ASSS | 4/18/97 | - | 1.9 | 1 | 6.9 | 12.38 | 6.23 | 7.42 | 38.3 | 0.02 | 99.9 | - | 375 |
| Hidden Lake | 1997 | DBAC | 5/16/97 | - | 0.7 | 11 | 0.2 | 11.1 | 11.97 | 7 | 29.9 | 0.02 | 102.2 | - | 371 |
| Hidden Lake | 1997 | DBAC | 5/16/97 | - | 0.7 | 10 | 1.4 | 11 | 10.64 | 6.97 | 28.7 | 0.02 | 98.1 | - | 376 |

| | | | | | | | | | | | | | | | |
|-------------|------|------|---------|---|-----|----|------|-------|-------|------|------|------|-------|---|-----|
| Hidden Lake | 1997 | DBAC | 5/16/97 | - | 0.7 | 9 | 2.4 | 11.06 | 9.38 | 6.97 | 28.8 | 0.02 | 95.8 | - | 377 |
| Hidden Lake | 1997 | DBAC | 5/16/97 | - | 0.7 | 8 | 3.4 | 11.03 | 9.3 | 6.97 | 29 | 0.02 | 95.3 | - | 377 |
| Hidden Lake | 1997 | DBAC | 5/16/97 | - | 0.7 | 7 | 4.5 | 11.03 | 9.27 | 6.96 | 29.3 | 0.02 | 95.3 | - | 377 |
| Hidden Lake | 1997 | DBAC | 5/16/97 | - | 0.7 | 6 | 5.4 | 11.01 | 9.25 | 6.98 | 29.4 | 0.02 | 95 | - | 375 |
| Hidden Lake | 1997 | DBAC | 5/16/97 | - | 0.7 | 5 | 6.4 | 10.95 | 9.17 | 6.96 | 30.2 | 0.02 | 94.4 | - | 376 |
| Hidden Lake | 1997 | DBAC | 5/16/97 | - | 0.7 | 4 | 7.5 | 10.89 | 9.1 | 6.98 | 29.1 | 0.02 | 93.6 | - | 375 |
| Hidden Lake | 1997 | DBAC | 5/16/97 | - | 0.7 | 3 | 8.5 | 10.87 | 9.07 | 6.98 | 28.8 | 0.02 | 93.4 | - | 374 |
| Hidden Lake | 1997 | DBAC | 5/16/97 | - | 0.7 | 2 | 9.3 | 10.86 | 9.04 | 6.99 | 28.9 | 0.02 | 93.3 | - | 373 |
| Hidden Lake | 1997 | DBAC | 5/16/97 | - | 0.7 | 1 | 10.4 | 10.86 | 8.97 | 6.99 | 30 | 0.02 | 93.1 | - | 373 |
| Hidden Lake | 2197 | DBSS | 5/29/97 | - | 1.7 | 10 | 0.7 | 10.91 | 12.61 | 6.99 | 26.6 | 0.02 | 101.9 | - | 361 |
| Hidden Lake | 2197 | DBSS | 5/29/97 | - | 1.7 | 9 | 1.8 | 11.25 | 9.84 | 7 | 26.9 | 0.02 | 98.6 | - | 361 |
| Hidden Lake | 2197 | DBSS | 5/29/97 | - | 1.7 | 8 | 2.8 | 11.18 | 9.53 | 6.99 | 26.7 | 0.02 | 97.3 | - | 361 |
| Hidden Lake | 2197 | DBSS | 5/29/97 | - | 1.7 | 7 | 3.7 | 11.14 | 9.3 | 6.97 | 26.6 | 0.02 | 96.5 | - | 362 |
| Hidden Lake | 2197 | DBSS | 5/29/97 | - | 1.7 | 6 | 4.7 | 11.13 | 9.19 | 6.95 | 26.6 | 0.02 | 96.1 | - | 362 |
| Hidden Lake | 2197 | DBSS | 5/29/97 | - | 1.7 | 5 | 5.7 | 11.03 | 9.12 | 6.95 | 26.4 | 0.02 | 95.3 | - | 361 |
| Hidden Lake | 2197 | DBSS | 5/29/97 | - | 1.7 | 4 | 6.8 | 10.74 | 8.45 | 6.92 | 26.4 | 0.02 | 91.1 | - | 361 |
| Hidden Lake | 2197 | DBSS | 5/29/97 | - | 1.7 | 3 | 7.7 | 10.76 | 8.38 | 6.92 | 26.3 | 0.02 | 91.1 | - | 360 |
| Hidden Lake | 2197 | DBSS | 5/29/97 | - | 1.7 | 2 | 8.8 | 10.62 | 8.33 | 6.91 | 26.5 | 0.02 | 89.8 | - | 359 |
| Hidden Lake | 2197 | DBSS | 5/29/97 | - | 1.7 | 1 | 9.8 | 10 | 8.3 | 6.91 | 27 | 0.02 | 84.5 | - | 367 |
| Hidden Lake | 2397 | DBAS | 6/11/97 | - | 2 | 10 | 0.5 | 11.03 | 13.17 | 7.09 | 29.3 | 0.02 | 104.9 | - | 405 |
| Hidden Lake | 2397 | DBAS | 6/11/97 | - | 2 | 9 | 1.6 | 11.24 | 12.28 | 7.11 | 29.1 | 0.02 | 104.7 | - | 405 |
| Hidden Lake | 2397 | DBAS | 6/11/97 | - | 2 | 8 | 2.6 | 11.15 | 11.98 | 7.1 | 29 | 0.02 | 103.2 | - | 405 |
| Hidden Lake | 2397 | DBAS | 6/11/97 | - | 2 | 7 | 3.6 | 11.13 | 11.91 | 7.06 | 29 | 0.02 | 102.9 | - | 407 |
| Hidden Lake | 2397 | DBAS | 6/11/97 | - | 2 | 6 | 4.3 | 11.1 | 10.59 | 7.02 | 28.5 | 0.02 | 99.5 | - | 409 |
| Hidden Lake | 2397 | DBAS | 6/11/97 | - | 2 | 5 | 5.3 | 10.97 | 10.02 | 7.01 | 28.2 | 0.02 | 97.1 | - | 410 |
| Hidden Lake | 2397 | DBAS | 6/11/97 | - | 2 | 4 | 6.3 | 10.96 | 9.61 | 6.99 | 27.7 | 0.02 | 96 | - | 410 |
| Hidden Lake | 2397 | DBAS | 6/11/97 | - | 2 | 3 | 7.2 | 10.72 | 9.35 | 6.98 | 27.7 | 0.02 | 93.3 | - | 411 |
| Hidden Lake | 2397 | DBAS | 6/11/97 | - | 2 | 2 | 8.1 | 10.16 | 9.13 | 6.98 | 28.1 | 0.02 | 88 | - | 411 |
| Hidden Lake | 2397 | DBAS | 6/11/97 | - | 2 | 1 | 8.2 | 10.15 | 9.12 | 6.98 | 28.1 | 0.02 | 87.8 | - | 411 |
| Hidden Lake | 2597 | DBSS | 6/26/97 | - | 2.4 | 11 | 0.4 | 10.75 | 13.72 | 7.16 | 30.6 | 0.02 | 103.3 | - | 406 |
| Hidden Lake | 2597 | DBSS | 6/26/97 | - | 2.4 | 10 | 0.3 | 10.75 | 13.77 | 7.15 | 30.6 | 0.02 | 103.5 | - | 406 |
| Hidden Lake | 2597 | DBSS | 6/26/97 | - | 2.4 | 9 | 1.2 | 10.78 | 13.3 | 7.14 | 30.4 | 0.02 | 102.7 | - | 409 |
| Hidden Lake | 2597 | DBSS | 6/26/97 | - | 2.4 | 8 | 2.4 | 10.8 | 12.94 | 7.13 | 30.5 | 0.02 | 102 | - | 409 |
| Hidden Lake | 2597 | DBSS | 6/26/97 | - | 2.4 | 7 | 3.4 | 10.75 | 12.74 | 7.11 | 30.2 | 0.02 | 101 | - | 410 |
| Hidden Lake | 2597 | DBSS | 6/26/97 | - | 2.4 | 6 | 4.5 | 10.52 | 12.44 | 7.06 | 30.3 | 0.02 | 98.3 | - | 411 |
| Hidden Lake | 2597 | DBSS | 6/26/97 | - | 2.4 | 5 | 4.5 | 10.54 | 12.36 | 7.02 | 30.3 | 0.02 | 98.3 | - | 411 |
| Hidden Lake | 2597 | DBSS | 6/26/97 | - | 2.4 | 4 | 5.5 | 10.38 | 11.89 | 6.98 | 30 | 0.02 | 95.8 | - | 411 |
| Hidden Lake | 2597 | DBSS | 6/26/97 | - | 2.4 | 3 | 6.5 | 7.98 | 11.15 | 6.83 | 29.8 | 0.02 | 72.3 | - | 416 |
| Hidden Lake | 2597 | DBSS | 6/26/97 | - | 2.4 | 2 | 7.5 | 6.41 | 10.43 | 6.86 | 30.3 | 0.02 | 57.2 | - | 418 |
| Hidden Lake | 2597 | DBSS | 6/26/97 | - | 2.4 | 1 | 7.4 | 6.45 | 10.38 | 6.88 | 30.3 | 0.02 | 57.4 | - | 419 |
| Hidden Lake | 2797 | DBSS | 7/8/97 | - | 2.4 | 12 | 0.3 | 10.08 | 18.56 | 7.14 | 34.7 | 0.02 | ***** | - | 392 |

| | | | | | | | | | | | | | | | |
|-------------|------|------|---------|---|-----|----|-----|-------|-------|------|------|------|-------|---|-----|
| Hidden Lake | 2797 | DBSS | 7/8/97 | - | 2.4 | 11 | 1.4 | 10.29 | 16.49 | 7.1 | 34.2 | 0.02 | ***** | - | 395 |
| Hidden Lake | 2797 | DBSS | 7/8/97 | - | 2.4 | 10 | 2.1 | 10.45 | 16.29 | 7.08 | 34.2 | 0.02 | ***** | - | 393 |
| Hidden Lake | 2797 | DBSS | 7/8/97 | - | 2.4 | 9 | 2.7 | 10.27 | 15.84 | 7.02 | 34.1 | 0.02 | ***** | - | 394 |
| Hidden Lake | 2797 | DBSS | 7/8/97 | - | 2.4 | 8 | 3.4 | 10.49 | 15.25 | 6.98 | 33.8 | 0.02 | ***** | - | 394 |
| Hidden Lake | 2797 | DBSS | 7/8/97 | - | 2.4 | 7 | 4.1 | 10.27 | 14.49 | 6.89 | 33.2 | 0.02 | ***** | - | 396 |
| Hidden Lake | 2797 | DBSS | 7/8/97 | - | 2.4 | 6 | 4.8 | 9.94 | 13.4 | 6.84 | 32.4 | 0.02 | 94.5 | - | 396 |
| Hidden Lake | 2797 | DBSS | 7/8/97 | - | 2.4 | 5 | 5.4 | 9.42 | 13.18 | 6.77 | 32.6 | 0.02 | 89.2 | - | 396 |
| Hidden Lake | 2797 | DBSS | 7/8/97 | - | 2.4 | 4 | 6.1 | 8.57 | 12.67 | 6.72 | 32.4 | 0.02 | 80.2 | - | 395 |
| Hidden Lake | 2797 | DBSS | 7/8/97 | - | 2.4 | 3 | 6.9 | 7.84 | 12.2 | 6.7 | 32.5 | 0.02 | 72.4 | - | 392 |
| Hidden Lake | 2797 | DBSS | 7/8/97 | - | 2.4 | 2 | 7.6 | 6.94 | 11.93 | 6.7 | 32.6 | 0.02 | 63.7 | - | 388 |
| Hidden Lake | 2797 | DBSS | 7/8/97 | - | 2.4 | 1 | 8.3 | 6.46 | 11.82 | 6.82 | 32.8 | 0.02 | 59.3 | - | 375 |
| Hidden Lake | 2997 | SSJD | 7/24/97 | - | 3.5 | 10 | 0.5 | 9.66 | 22.27 | 7.88 | 35.2 | 0.02 | ***** | - | 391 |
| Hidden Lake | 2997 | SSJD | 7/24/97 | - | 3.5 | 9 | 1 | 9.74 | 22.11 | 7.9 | 35.3 | 0.02 | ***** | - | 390 |
| Hidden Lake | 2997 | SSJD | 7/24/97 | - | 3.5 | 8 | 1.5 | 9.8 | 21.99 | 7.82 | 35.2 | 0.02 | ***** | - | 391 |
| Hidden Lake | 2997 | SSJD | 7/24/97 | - | 3.5 | 7 | 2.5 | 9.96 | 21.67 | 7.59 | 35.5 | 0.02 | ***** | - | 395 |
| Hidden Lake | 2997 | SSJD | 7/24/97 | - | 3.5 | 6 | 3.5 | 10.45 | 17.59 | 7.02 | 32.7 | 0.02 | ***** | - | 417 |
| Hidden Lake | 2997 | SSJD | 7/24/97 | - | 3.5 | 5 | 4.5 | 10 | 16.07 | 6.88 | 32 | 0.02 | ***** | - | 421 |
| Hidden Lake | 2997 | SSJD | 7/24/97 | - | 3.5 | 4 | 5.4 | 8.64 | 14.36 | 6.67 | 31.6 | 0.02 | 84 | - | 425 |
| Hidden Lake | 2997 | SSJD | 7/24/97 | - | 3.5 | 3 | 6.5 | 6.29 | 13.18 | 6.61 | 33.2 | 0.02 | 59.8 | - | 427 |
| Hidden Lake | 2997 | SSJD | 7/24/97 | - | 3.5 | 2 | 7.3 | 5.5 | 12.9 | 6.65 | 33.7 | 0.02 | 51.8 | - | 424 |
| Hidden Lake | 2997 | SSJD | 7/24/97 | - | 3.5 | 1 | 8 | 4.83 | 12.77 | 6.82 | 34 | 0.02 | 45.4 | - | 432 |
| Hidden Lake | 3197 | DBSS | 8/5/97 | - | 5.1 | 10 | 0.3 | 10.19 | 25.4 | 8.67 | 38.8 | 0.02 | 122.5 | - | 256 |
| Hidden Lake | 3197 | DBSS | 8/5/97 | - | 5.1 | 9 | 1.5 | 10 | 24.66 | 8.44 | 38.2 | 0.02 | 118.5 | - | 258 |
| Hidden Lake | 3197 | DBSS | 8/5/97 | - | 5.1 | 8 | 2.5 | 10 | 24.16 | 8.19 | 38.2 | 0.02 | 117.4 | - | 258 |
| Hidden Lake | 3197 | DBSS | 8/5/97 | - | 5.1 | 7 | 3.5 | 10.08 | 21.44 | 7.21 | 35.1 | 0.02 | 112.5 | - | 289 |
| Hidden Lake | 3197 | DBSS | 8/5/97 | - | 5.1 | 6 | 4.5 | 10.33 | 18.29 | 7.05 | 32.4 | 0.02 | 108.5 | - | 293 |
| Hidden Lake | 3197 | DBSS | 8/5/97 | - | 5.1 | 5 | 5.5 | 8.93 | 16.04 | 6.89 | 32.7 | 0.02 | 89.4 | - | 284 |
| Hidden Lake | 3197 | DBSS | 8/5/97 | - | 5.1 | 4 | 6.6 | 5.91 | 14.49 | 6.83 | 36.5 | 0.02 | 57.1 | - | 269 |
| Hidden Lake | 3197 | DBSS | 8/5/97 | - | 5.1 | 3 | 7.5 | 2.2 | 13.35 | 6.85 | 40.1 | 0.03 | 20.7 | - | 237 |
| Hidden Lake | 3197 | DBSS | 8/5/97 | - | 5.1 | 2 | 8.5 | 0.44 | 12.85 | 7.02 | 52.9 | 0.03 | 4.1 | - | 178 |
| Hidden Lake | 3197 | DBSS | 8/5/97 | - | 5.1 | 1 | 8.5 | 0.48 | 12.82 | 7.09 | 52.2 | 0.03 | 4.5 | - | 174 |
| Hidden Lake | 3297 | DBSS | 8/14/97 | - | 6 | 10 | 0.3 | 8.76 | 23.28 | 7.95 | 39.9 | 0.03 | 101.9 | - | 275 |
| Hidden Lake | 3297 | DBSS | 8/14/97 | - | 6 | 9 | 1 | 8.77 | 23.22 | 7.89 | 39.8 | 0.03 | 101.9 | - | 271 |
| Hidden Lake | 3297 | DBSS | 8/14/97 | - | 6 | 8 | 2 | 8.82 | 22.95 | 7.8 | 39.9 | 0.03 | 102.1 | - | 269 |
| Hidden Lake | 3297 | DBSS | 8/14/97 | - | 6 | 7 | 3 | 8.91 | 22.74 | 7.54 | 40.3 | 0.03 | 102.6 | - | 271 |
| Hidden Lake | 3297 | DBSS | 8/14/97 | - | 6 | 6 | 4 | 8.64 | 21.72 | 6.98 | 38.8 | 0.02 | 97.6 | - | 290 |
| Hidden Lake | 3297 | DBSS | 8/14/97 | - | 6 | 5 | 5 | 8.67 | 18.32 | 6.76 | 34.5 | 0.02 | 91.6 | - | 296 |
| Hidden Lake | 3297 | DBSS | 8/14/97 | - | 6 | 4 | 6 | 6.25 | 16.11 | 6.67 | 37.6 | 0.02 | 63 | - | 288 |
| Hidden Lake | 3297 | DBSS | 8/14/97 | - | 6 | 3 | 6.9 | 2.37 | 14.47 | 6.6 | 41.7 | 0.03 | 22.7 | - | 266 |
| Hidden Lake | 3297 | DBSS | 8/14/97 | - | 6 | 2 | 8 | 0.46 | 13.43 | 6.59 | 50.7 | 0.03 | 4.4 | - | 242 |
| Hidden Lake | 3297 | DBSS | 8/14/97 | - | 6 | 1 | 8 | 0.81 | 13.86 | 6.92 | 47.1 | 0.03 | 8.1 | - | 225 |

| | | | | | | | | | | | | | | | |
|-------------|------|------|----------|---|-----|----|-----|-------|-------|------|------|------|-------|-------|-----|
| Hidden Lake | 3497 | DBSS | 8/27/97 | - | 5.7 | 10 | 0.5 | 9.39 | 22.02 | 7.9 | 44.9 | 0.03 | 106.8 | - | 235 |
| Hidden Lake | 3497 | DBSS | 8/27/97 | - | 5.7 | 9 | 0.3 | 9.39 | 22.02 | 7.9 | 44.9 | 0.03 | 106.8 | - | 235 |
| Hidden Lake | 3497 | DBSS | 8/27/97 | - | 5.7 | 8 | 1.6 | 9.41 | 21.92 | 7.88 | 45 | 0.03 | 106.9 | - | 231 |
| Hidden Lake | 3497 | DBSS | 8/27/97 | - | 5.7 | 7 | 2.4 | 9.43 | 21.88 | 7.83 | 45 | 0.03 | 107 | - | 223 |
| Hidden Lake | 3497 | DBSS | 8/27/97 | - | 5.7 | 6 | 3.5 | 9.45 | 21.85 | 7.74 | 45.1 | 0.03 | 107.2 | - | 219 |
| Hidden Lake | 3497 | DBSS | 8/27/97 | - | 5.7 | 5 | 4.6 | 9.33 | 21.58 | 7.44 | 44.9 | 0.03 | 105.3 | - | 218 |
| Hidden Lake | 3497 | DBSS | 8/27/97 | - | 5.7 | 4 | 5.4 | 10.33 | 19.92 | 7.05 | 42.8 | 0.03 | 112.9 | - | 228 |
| Hidden Lake | 3497 | DBSS | 8/27/97 | - | 5.7 | 3 | 6.5 | 3.7 | 17.44 | 6.73 | 47.1 | 0.03 | 38.4 | - | 208 |
| Hidden Lake | 3497 | DBSS | 8/27/97 | - | 5.7 | 2 | 7.5 | 0.3 | 14.92 | 6.67 | 57.7 | 0.04 | 2.9 | - | 147 |
| Hidden Lake | 3497 | DBSS | 8/27/97 | - | 5.7 | 1 | 8.4 | 0.4 | 13.88 | 6.6 | 79.9 | 0.05 | 3.9 | - | 139 |
| Hidden Lake | 3797 | DBAS | 9/16/97 | - | 2.5 | 9 | 0.2 | 8.74 | 18.01 | 7.31 | 47.1 | 0.03 | 92.1 | - | 296 |
| Hidden Lake | 3797 | DBAS | 9/16/97 | - | 2.5 | 8 | 1.2 | 8.75 | 18 | 7.3 | 47.2 | 0.03 | 92.3 | - | 295 |
| Hidden Lake | 3797 | DBAS | 9/16/97 | - | 2.5 | 7 | 2.2 | 8.68 | 17.9 | 7.27 | 47.1 | 0.03 | 91.3 | - | 294 |
| Hidden Lake | 3797 | DBAS | 9/16/97 | - | 2.5 | 6 | 3.2 | 8.57 | 17.84 | 7.27 | 47.1 | 0.03 | 90 | - | 290 |
| Hidden Lake | 3797 | DBAS | 9/16/97 | - | 2.5 | 5 | 4.2 | 8.63 | 17.79 | 7.27 | 47.1 | 0.03 | 90.4 | - | 286 |
| Hidden Lake | 3797 | DBAS | 9/16/97 | - | 2.5 | 4 | 5.2 | 8.75 | 17.73 | 7.24 | 47.1 | 0.03 | 91.7 | - | 281 |
| Hidden Lake | 3797 | DBAS | 9/16/97 | - | 2.5 | 3 | 6.2 | 8 | 17.44 | 7.12 | 49.2 | 0.03 | 83.4 | - | 278 |
| Hidden Lake | 3797 | DBAS | 9/16/97 | - | 2.5 | 2 | 7.2 | 7.77 | 17.12 | 7.07 | 50.9 | 0.03 | 80.4 | - | 264 |
| Hidden Lake | 3797 | DBAS | 9/16/97 | - | 2.5 | 1 | 8.2 | 7.96 | 17.05 | 7.05 | 51 | 0.03 | 82.3 | - | 245 |
| Hidden Lake | 3997 | ASRA | 9/29/97 | - | 3.5 | 10 | 0.2 | 9.65 | 17.34 | 7.45 | 48.2 | 0.03 | 101.6 | - | 350 |
| Hidden Lake | 3997 | ASRA | 9/29/97 | - | 3.5 | 9 | 1.6 | 9.68 | 16.21 | 7.44 | 48.1 | 0.03 | 99.6 | - | 349 |
| Hidden Lake | 3997 | ASRA | 9/29/97 | - | 3.5 | 8 | 2.4 | 9.67 | 15.91 | 7.44 | 48.2 | 0.03 | 98.8 | - | 348 |
| Hidden Lake | 3997 | ASRA | 9/29/97 | - | 3.5 | 7 | 3.2 | 9.61 | 15.86 | 7.42 | 48.2 | 0.03 | 98.1 | - | 347 |
| Hidden Lake | 3997 | ASRA | 9/29/97 | - | 3.5 | 6 | 4 | 9.5 | 15.82 | 7.4 | 48.2 | 0.03 | 97.1 | - | 346 |
| Hidden Lake | 3997 | ASRA | 9/29/97 | - | 3.5 | 5 | 4.7 | 9.4 | 15.77 | 7.37 | 48.3 | 0.03 | 95.7 | - | 344 |
| Hidden Lake | 3997 | ASRA | 9/29/97 | - | 3.5 | 4 | 5.6 | 9.36 | 15.67 | 7.34 | 48.1 | 0.03 | 95.2 | - | 340 |
| Hidden Lake | 3997 | ASRA | 9/29/97 | - | 3.5 | 3 | 6.4 | 8.83 | 15.47 | 7.33 | 48.7 | 0.03 | 89.4 | - | 333 |
| Hidden Lake | 3997 | ASRA | 9/29/97 | - | 3.5 | 2 | 7.2 | 9.16 | 15.34 | 7.35 | 48.9 | 0.03 | 92.4 | - | 328 |
| Hidden Lake | 3997 | ASRA | 9/29/97 | - | 3.5 | 1 | 8 | 9.44 | 15.32 | 7.36 | 48.6 | 0.03 | 95.2 | - | 319 |
| Hidden Lake | 4297 | DBAS | 10/20/97 | - | 2.5 | 9 | 0.3 | 10.76 | 11.63 | 7.44 | 54.2 | 0.03 | 97.8 | - | 350 |
| Hidden Lake | 4297 | DBAS | 10/20/97 | - | 2.5 | 8 | 1 | 10.76 | 11.43 | 7.46 | 54 | 0.03 | 97.5 | - | 349 |
| Hidden Lake | 4297 | DBAS | 10/20/97 | - | 2.5 | 7 | 2 | 10.76 | 11.25 | 7.42 | 54.2 | 0.03 | 97.1 | - | 351 |
| Hidden Lake | 4297 | DBAS | 10/20/97 | - | 2.5 | 6 | 3 | 10.64 | 11.12 | 7.39 | 54.3 | 0.03 | 95.7 | - | 351 |
| Hidden Lake | 4297 | DBAS | 10/20/97 | - | 2.5 | 5 | 4 | 10.71 | 11.05 | 7.38 | 54.1 | 0.03 | 96.2 | - | 350 |
| Hidden Lake | 4297 | DBAS | 10/20/97 | - | 2.5 | 4 | 5 | 10.72 | 11.02 | 7.37 | 54.2 | 0.03 | 96.2 | - | 349 |
| Hidden Lake | 4297 | DBAS | 10/20/97 | - | 2.5 | 3 | 6 | 10.75 | 11 | 7.31 | 54.3 | 0.03 | 96.5 | - | 351 |
| Hidden Lake | 4297 | DBAS | 10/20/97 | - | 2.5 | 2 | 7 | 10.77 | 11 | 7.28 | 54.2 | 0.03 | 96.6 | - | 351 |
| Hidden Lake | 4297 | DBAS | 10/20/97 | - | 2.5 | 1 | 8 | 10.89 | 10.86 | 7.25 | 54.3 | 0.03 | 97.4 | - | 350 |
| Hidden Lake | 4497 | DBAS | 11/3/97 | - | 2.4 | 9 | 0.2 | 11.64 | 7.48 | 8.83 | 53.2 | 0.03 | 100 | ***** | 425 |
| Hidden Lake | 4497 | DBAS | 11/3/97 | - | 2.4 | 8 | 1 | 11.57 | 7.44 | 8.73 | 53.2 | 0.03 | 99.1 | ***** | 427 |
| Hidden Lake | 4497 | DBAS | 11/3/97 | - | 2.4 | 7 | 2 | 11.5 | 7.44 | 8.65 | 53.1 | 0.03 | 98.3 | ***** | 426 |

| | | | | | | | | | | | | | | | |
|-------------|------|------|---------|---|-----|---|-----|-------|------|------|------|------|------|-------|-----|
| Hidden Lake | 4497 | DBAS | 11/3/97 | - | 2.4 | 6 | 3 | 11.5 | 7.41 | 8.61 | 53.3 | 0.03 | 98.2 | ***** | 425 |
| Hidden Lake | 4497 | DBAS | 11/3/97 | - | 2.4 | 5 | 4 | 11.48 | 7.43 | 8.61 | 53.2 | 0.03 | 98.1 | ***** | 422 |
| Hidden Lake | 4497 | DBAS | 11/3/97 | - | 2.4 | 4 | 5 | 11.38 | 7.37 | 8.6 | 53.2 | 0.03 | 97.2 | ***** | 423 |
| Hidden Lake | 4497 | DBAS | 11/3/97 | - | 2.4 | 3 | 6 | 11.17 | 7.36 | 8.45 | 53.5 | 0.03 | 95 | ***** | 422 |
| Hidden Lake | 4497 | DBAS | 11/3/97 | - | 2.4 | 2 | 7 | 11.03 | 7.35 | 8.32 | 53.6 | 0.03 | 93.6 | ***** | 422 |
| Hidden Lake | 4497 | DBAS | 11/3/97 | - | 2.4 | 1 | 7.8 | 11.02 | 7.36 | 8.32 | 53.7 | 0.03 | 93.3 | ***** | 433 |

| Location | Phase | Samplers | Date | Time | Secchi (m) | Sequence | Depth (m) | Dissolved Oxygen (mg/L) | Temperature (C) | pH | Conductivity (μs/cm) | TDS | Saturated Dissolved Oxygen | Stabilization Time | Redox |
|------------|-------|----------|---------|------|------------|----------|-----------|-------------------------|-----------------|------|----------------------|------|----------------------------|--------------------|-------|
| Round Lake | 1597 | DBAC | 5/16/97 | - | 0.4 | 12 | 0.2 | 11.03 | 10.79 | 7 | 26.7 | 0.02 | 99 | - | 372 |
| Round Lake | 1597 | DBAC | 5/16/97 | - | 0.4 | 11 | 0.2 | 11.11 | 10.63 | 7.03 | 27 | 0.02 | 99 | - | 372 |
| Round Lake | 1597 | DBAC | 5/16/97 | - | 0.4 | 10 | 0.2 | 11.09 | 10.63 | 7.05 | 27 | 0.02 | 98.9 | - | 371 |
| Round Lake | 1597 | DBAC | 5/16/97 | - | 0.4 | 9 | 1.7 | 11.09 | 10.33 | 7.04 | 26.9 | 0.02 | 98.3 | - | 373 |
| Round Lake | 1597 | DBAC | 5/16/97 | - | 0.4 | 8 | 1.7 | 11.06 | 10.35 | 7.03 | 26.8 | 0.02 | 98 | - | 373 |
| Round Lake | 1597 | DBAC | 5/16/97 | - | 0.4 | 7 | 1.7 | 11.07 | 10.36 | 7.02 | 26.9 | 0.02 | 98.2 | - | 374 |
| Round Lake | 1597 | DBAC | 5/16/97 | - | 0.4 | 6 | 2.8 | 11.15 | 8.61 | 7.06 | 26.5 | 0.02 | 94.7 | - | 373 |
| Round Lake | 1597 | DBAC | 5/16/97 | - | 0.4 | 5 | 2.8 | 11.13 | 8.6 | 7.06 | 26.5 | 0.02 | 94.5 | - | 373 |
| Round Lake | 1597 | DBAC | 5/16/97 | - | 0.4 | 4 | 2.8 | 11.1 | 8.59 | 7.06 | 26.5 | 0.02 | 94.2 | - | 373 |
| Round Lake | 1597 | DBAC | 5/16/97 | - | 0.4 | 3 | 3.9 | 11.17 | 8.33 | 7.06 | 26.4 | 0.02 | 94.3 | - | 373 |
| Round Lake | 1597 | DBAC | 5/16/97 | - | 0.4 | 2 | 3.9 | 11.2 | 8.32 | 7.06 | 26.3 | 0.02 | 94.5 | - | 373 |
| Round Lake | 1597 | DBAC | 5/16/97 | - | 0.4 | 1 | 3.9 | 11.24 | 8.3 | 7.06 | 26.6 | 0.02 | 94.8 | - | 373 |
| Round Lake | 2197 | DBSS | 5/29/97 | - | 1.4 | 12 | 0.3 | 11.02 | 10.86 | 7.11 | 26.5 | 0.02 | 99 | - | 365 |
| Round Lake | 2197 | DBSS | 5/29/97 | - | 1.4 | 11 | 0.3 | 11.03 | 10.92 | 7.1 | 26.4 | 0.02 | 99.3 | - | 366 |
| Round Lake | 2197 | DBSS | 5/29/97 | - | 1.4 | 10 | 0.2 | 11.01 | 11 | 7.1 | 26.2 | 0.02 | 99.3 | - | 366 |
| Round Lake | 2197 | DBSS | 5/29/97 | - | 1.4 | 9 | 1.2 | 11.39 | 9.71 | 7.11 | 26.6 | 0.02 | 99.7 | - | 366 |
| Round Lake | 2197 | DBSS | 5/29/97 | - | 1.4 | 8 | 1.2 | 11.37 | 9.69 | 7.13 | 26.7 | 0.02 | 99.4 | - | 366 |
| Round Lake | 2197 | DBSS | 5/29/97 | - | 1.4 | 7 | 1.2 | 11.35 | 9.73 | 7.12 | 26.7 | 0.02 | 99.4 | - | 366 |
| Round Lake | 2197 | DBSS | 5/29/97 | - | 1.4 | 6 | 2.4 | 11.44 | 9.5 | 7.09 | 26.7 | 0.02 | 99.5 | - | 368 |
| Round Lake | 2197 | DBSS | 5/29/97 | - | 1.4 | 5 | 2.4 | 11.44 | 9.51 | 7.1 | 26.3 | 0.02 | 99.4 | - | 368 |
| Round Lake | 2197 | DBSS | 5/29/97 | - | 1.4 | 4 | 2.4 | 11.5 | 9.45 | 7.1 | 26.7 | 0.02 | 99.8 | - | 367 |
| Round Lake | 2197 | DBSS | 5/29/97 | - | 1.4 | 3 | 3.3 | 11.53 | 9.2 | 7.09 | 26.7 | 0.02 | 99.6 | - | 368 |
| Round Lake | 2197 | DBSS | 5/29/97 | - | 1.4 | 2 | 3.3 | 11.54 | 9.22 | 7.08 | 26.4 | 0.02 | 99.7 | - | 369 |
| Round Lake | 2197 | DBSS | 5/29/97 | - | 1.4 | 1 | 3.3 | 11.54 | 9.23 | 7.09 | 26.4 | 0.02 | 99.8 | - | 368 |
| Round Lake | 2397 | DBAS | 6/11/97 | - | 1.8 | 10 | 0.3 | 10.67 | 13.47 | 7.14 | 29.4 | 0.02 | 102.1 | - | 398 |
| Round Lake | 2397 | DBAS | 6/11/97 | - | 1.8 | 9 | 0.3 | 10.65 | 13.45 | 7.15 | 29.6 | 0.02 | 101.9 | - | 397 |
| Round Lake | 2397 | DBAS | 6/11/97 | - | 1.8 | 8 | 0.3 | 10.67 | 13.45 | 7.15 | 29.5 | 0.02 | 102.1 | - | 398 |
| Round Lake | 2397 | DBAS | 6/11/97 | - | 1.8 | 7 | 1 | 11.08 | 11.69 | 7.19 | 29 | 0.02 | 101.9 | - | 398 |
| Round Lake | 2397 | DBAS | 6/11/97 | - | 1.8 | 6 | 1 | 11.02 | 11.81 | 7.19 | 29.1 | 0.02 | 101.6 | - | 398 |
| Round Lake | 2397 | DBAS | 6/11/97 | - | 1.8 | 5 | 1 | 10.99 | 12 | 7.19 | 29 | 0.02 | 101.8 | - | 398 |
| Round Lake | 2397 | DBAS | 6/11/97 | - | 1.8 | 4 | 0.9 | 10.85 | 12.21 | 7.19 | 29 | 0.02 | 100.9 | - | 398 |
| Round Lake | 2397 | DBAS | 6/11/97 | - | 1.8 | 3 | 1.5 | 11.29 | 11.28 | 7.21 | 28.6 | 0.02 | 102.8 | - | 401 |
| Round Lake | 2397 | DBAS | 6/11/97 | - | 1.8 | 2 | 1.5 | 11.25 | 11.38 | 7.22 | 28.7 | 0.02 | 102.7 | - | 400 |

| | | | | | | | | | | | | | | | |
|------------|------|------|---------|---|-----|----|-----|-------|-------|------|------|------|-------|---|-----|
| Round Lake | 2397 | DBAS | 6/11/97 | - | 1.8 | 1 | 1.6 | 11.27 | 11.43 | 7.21 | 28.6 | 0.02 | 103 | - | 401 |
| | | | | | | | | | | | | | | | |
| Round Lake | 2597 | DBSS | 6/26/97 | - | 1.5 | 10 | 0.3 | 11.34 | 11.69 | 7.21 | 32.4 | 0.02 | 104.1 | - | 398 |
| Round Lake | 2597 | DBSS | 6/26/97 | - | 1.5 | 9 | 0.3 | 11.37 | 11.7 | 7.21 | 31.9 | 0.02 | 104.3 | - | 398 |
| Round Lake | 2597 | DBSS | 6/26/97 | - | 1.5 | 8 | 0.3 | 11.26 | 11.95 | 7.2 | 32.1 | 0.02 | 104.2 | - | 399 |
| Round Lake | 2597 | DBSS | 6/26/97 | - | 1.5 | 7 | 0.9 | 11.34 | 11.21 | 7.18 | 32.1 | 0.02 | 103 | - | 401 |
| Round Lake | 2597 | DBSS | 6/26/97 | - | 1.5 | 6 | 0.9 | 11.25 | 11.23 | 7.19 | 32 | 0.02 | 102.2 | - | 400 |
| Round Lake | 2597 | DBSS | 6/26/97 | - | 1.5 | 5 | 1 | 11.3 | 11.02 | 7.2 | 31.9 | 0.02 | 102.2 | - | 401 |
| Round Lake | 2597 | DBSS | 6/26/97 | - | 1.5 | 4 | 1.4 | 11.28 | 10.98 | 7.19 | 31.7 | 0.02 | 101.9 | - | 401 |
| Round Lake | 2597 | DBSS | 6/26/97 | - | 1.5 | 3 | 1.4 | 11.32 | 10.92 | 7.2 | 31.9 | 0.02 | 102.1 | - | 402 |
| Round Lake | 2597 | DBSS | 6/26/97 | - | 1.5 | 2 | 1.5 | 11.31 | 10.95 | 7.2 | 31.9 | 0.02 | 102.1 | - | 402 |
| Round Lake | 2597 | DBSS | 6/26/97 | - | 1.5 | 1 | 1.6 | 11.32 | 10.95 | 7.19 | 31.8 | 0.02 | 102.1 | - | 403 |
| | | | | | | | | | | | | | | | |
| Round Lake | 2797 | DBSS | 7/8/97 | - | 0.6 | 2 | 0.2 | 9.73 | 16.76 | 7.33 | 35.3 | 0.02 | 99.6 | - | 399 |
| Round Lake | 2797 | DBSS | 7/8/97 | - | 0.6 | 1 | 0.6 | 10.33 | 16.11 | 7.36 | 35.1 | 0.02 | ***** | - | 397 |
| | | | | | | | | | | | | | | | |
| Round Lake | 2997 | SSJD | 7/24/97 | - | 1.7 | 10 | 0.3 | 9.48 | 19.4 | 7.27 | 37.9 | 0.02 | ***** | - | 405 |
| Round Lake | 2997 | SSJD | 7/24/97 | - | 1.7 | 9 | 0.3 | 9.47 | 19.26 | 7.26 | 37.9 | 0.02 | ***** | - | 405 |
| Round Lake | 2997 | SSJD | 7/24/97 | - | 1.7 | 8 | 0.3 | 9.49 | 19.28 | 7.25 | 38 | 0.02 | ***** | - | 406 |
| Round Lake | 2997 | SSJD | 7/24/97 | - | 1.7 | 7 | 0.9 | 9.37 | 18.66 | 7.25 | 37.8 | 0.02 | 99.8 | - | 408 |
| Round Lake | 2997 | SSJD | 7/24/97 | - | 1.7 | 6 | 0.9 | 9.31 | 18.63 | 7.26 | 37.8 | 0.02 | 99 | - | 408 |
| Round Lake | 2997 | SSJD | 7/24/97 | - | 1.7 | 5 | 0.9 | 9.36 | 18.66 | 7.25 | 37.8 | 0.02 | 99.6 | - | 408 |
| Round Lake | 2997 | SSJD | 7/24/97 | - | 1.7 | 4 | 0.9 | 9.37 | 18.7 | 7.25 | 37.9 | 0.02 | 99.6 | - | 408 |
| Round Lake | 2997 | SSJD | 7/24/97 | - | 1.7 | 3 | 1.7 | 9.47 | 18.51 | 7.32 | 37.8 | 0.02 | ***** | - | 406 |
| Round Lake | 2997 | SSJD | 7/24/97 | - | 1.7 | 2 | 1.7 | 9.48 | 18.51 | 7.34 | 37.9 | 0.02 | ***** | - | 408 |
| Round Lake | 2997 | SSJD | 7/24/97 | - | 1.7 | 1 | 1.7 | 9.56 | 18.51 | 7.38 | 37.9 | 0.02 | ***** | - | 411 |
| | | | | | | | | | | | | | | | |
| Round Lake | 3197 | DBSS | 8/5/97 | - | 1.7 | 2 | 0.3 | 9.22 | 22.77 | 7.55 | 44.2 | 0.03 | 105.6 | - | 334 |
| Round Lake | 3197 | DBSS | 8/5/97 | - | 1.7 | 1 | 1.5 | 9.56 | 21.9 | 7.68 | 44.2 | 0.03 | 107.6 | - | 329 |
| | | | | | | | | | | | | | | | |
| Round Lake | 3297 | DBSS | 8/14/97 | - | 1.4 | 2 | 0.3 | 9.3 | 23.91 | 7.92 | 48.7 | 0.03 | 109.5 | - | 292 |
| Round Lake | 3297 | DBSS | 8/14/97 | - | 1.4 | 1 | 1.3 | 9.75 | 23.42 | 8.12 | 49.1 | 0.03 | 113.8 | - | 280 |
| | | | | | | | | | | | | | | | |
| Round Lake | 3497 | DBSS | 8/27/97 | - | 2.1 | 3 | 0.3 | 9.01 | 21.21 | 7.35 | 55.7 | 0.04 | 100.9 | - | 294 |
| Round Lake | 3497 | DBSS | 8/27/97 | - | 2.1 | 2 | 1 | 8.93 | 20.84 | 7.35 | 55.5 | 0.04 | 99.5 | - | 292 |
| Round Lake | 3497 | DBSS | 8/27/97 | - | 2.1 | 1 | 1.9 | 9.11 | 20.72 | 7.38 | 55.6 | 0.04 | 101.1 | - | 287 |
| | | | | | | | | | | | | | | | |
| Round Lake | 3797 | DBAS | 9/16/97 | - | 1.3 | 2 | 0.2 | 8.62 | 17.39 | 7.29 | 55.6 | 0.04 | 89.7 | - | 286 |
| Round Lake | 3797 | DBAS | 9/16/97 | - | 1.3 | 1 | 1 | 8.87 | 17.39 | 7.31 | 55.5 | 0.04 | 92.2 | - | 285 |
| | | | | | | | | | | | | | | | |
| Round Lake | 3997 | ASRA | 9/29/97 | - | 1.5 | 8 | 0.3 | 11.35 | 15.24 | 7.44 | 51.9 | 0.03 | 114.5 | - | 377 |
| Round Lake | 3997 | ASRA | 9/29/97 | - | 1.5 | 7 | 0.3 | 11.35 | 15.25 | 7.45 | 51.9 | 0.03 | 114.3 | - | 376 |
| Round Lake | 3997 | ASRA | 9/29/97 | - | 1.5 | 6 | 0.3 | 11.37 | 15.27 | 7.45 | 51.9 | 0.03 | 114.6 | - | 376 |
| Round Lake | 3997 | ASRA | 9/29/97 | - | 1.5 | 5 | 0.3 | 11.36 | 15.29 | 7.46 | 51.9 | 0.03 | 114.6 | - | 376 |

| | | | | | | | | | | | | | | | |
|------------|------|------|----------|---|-----|---|-----|-------|-------|------|------|------|-------|-------|-----|
| Round Lake | 3997 | ASRA | 9/29/97 | - | 1.5 | 4 | 1.5 | 11.38 | 14.79 | 7.49 | 51.9 | 0.03 | 113.5 | - | 375 |
| Round Lake | 3997 | ASRA | 9/29/97 | - | 1.5 | 3 | 1.5 | 11.28 | 14.69 | 7.5 | 52.1 | 0.03 | 112.3 | - | 374 |
| Round Lake | 3997 | ASRA | 9/29/97 | - | 1.5 | 2 | 1.5 | 10.91 | 14.71 | 7.5 | 51.9 | 0.03 | 108.6 | - | 374 |
| Round Lake | 3997 | ASRA | 9/29/97 | - | 1.5 | 1 | 1.5 | 11.51 | 14.67 | 7.51 | 51.9 | 0.03 | 115.9 | - | 373 |
| | | | | | | | | | | | | | | | |
| Round Lake | 4297 | DBAS | 10/20/97 | - | 1.2 | 3 | 0.3 | 10.65 | 9.38 | 6.97 | 57.2 | 0.04 | 91.9 | - | 381 |
| Round Lake | 4297 | DBAS | 10/20/97 | - | 1.2 | 2 | 0.8 | 10.68 | 9.35 | 6.96 | 57.1 | 0.04 | 92.2 | - | 382 |
| Round Lake | 4297 | DBAS | 10/20/97 | - | 1.2 | 1 | 1.3 | 10.87 | 9.19 | 6.93 | 57.1 | 0.04 | 93.4 | - | 384 |
| | | | | | | | | | | | | | | | |
| Round Lake | 4497 | DBAS | 11/3/97 | - | 1 | 2 | 0.3 | 11.93 | 7.13 | 6.68 | 38.7 | 0.02 | 97.1 | ***** | 429 |
| Round Lake | 4497 | DBAS | 11/3/97 | - | 1 | 1 | 1.2 | 11.99 | 7.11 | 6.68 | 38.5 | 0.02 | 97.6 | ***** | 431 |

| Location | Phase | Samplers | Date | Time | Secchi (m) | Sequence | Depth (m) | Dissolved Oxygen (mg/L) | Temperature (C) | pH | Conductivity (µs/cm) | TDS | Saturated Dissolved Oxygen | Stabilization Time | Redox |
|-------------------|-------|----------|---------|------|------------|----------|-----------|-------------------------|-----------------|------|----------------------|-------|----------------------------|--------------------|-------|
| Chatcolet Lake DP | 1597 | ASSS | 4/18/97 | - | 1.5 | 3 | 0.5 | 12.66 | 6.96 | 7.41 | 38.3 | 0.02 | ***** | - | 380 |
| Chatcolet Lake DP | 1597 | ASSS | 4/18/97 | - | 1.5 | 2 | 5.4 | 12.37 | 5.98 | 7.41 | 36.3 | 0.02 | 99.3 | - | 381 |
| Chatcolet Lake DP | 1597 | ASSS | 4/18/97 | - | 1.5 | 1 | 10.4 | 12.45 | 5.7 | 7.41 | 33.5 | 0.02 | 99 | - | 381 |
| | | | | | | | | | | | | | | | |
| Chatcolet Lake DP | 1997 | DBSS | 5/16/97 | - | 1.4 | 14 | 0.2 | 11.31 | 14.46 | 7.12 | 33.7 | 0.02 | 110 | - | 368 |
| Chatcolet Lake DP | 1997 | DBSS | 5/16/97 | - | 1.4 | 13 | 0.8 | 11.32 | 13.83 | 7.08 | 33.3 | 0.02 | 108.6 | - | 371 |
| Chatcolet Lake DP | 1997 | DBSS | 5/16/97 | - | 1.4 | 12 | 1.8 | 11.46 | 12.2 | 7.03 | 32.6 | 0.02 | 106.3 | - | 373 |
| Chatcolet Lake DP | 1997 | DBSS | 5/16/97 | - | 1.4 | 11 | 2.7 | 11.37 | 11.66 | 7.01 | 32 | 0.02 | 103.9 | - | 374 |
| Chatcolet Lake DP | 1997 | DBSS | 5/16/97 | - | 1.4 | 10 | 3.7 | 11 | 10.94 | 6.95 | 30.5 | 0.02 | 98.7 | - | 376 |
| Chatcolet Lake DP | 1997 | DBSS | 5/16/97 | - | 1.4 | 9 | 4.7 | 10.91 | 9.76 | 6.93 | 28.8 | 0.02 | 95.4 | - | 378 |
| Chatcolet Lake DP | 1997 | DBSS | 5/16/97 | - | 1.4 | 8 | 5.6 | 10.84 | 9.3 | 6.9 | 10.84 | ***** | 5.6 | - | 376 |
| Chatcolet Lake DP | 1997 | DBSS | 5/16/97 | - | 1.4 | 7 | 6.7 | 10.87 | 9.09 | 6.95 | 27.9 | 0.02 | 93.4 | - | 376 |
| Chatcolet Lake DP | 1997 | DBSS | 5/16/97 | - | 1.4 | 6 | 7.7 | 10.88 | 9.02 | 6.95 | 27.9 | 0.02 | 93.4 | - | 376 |
| Chatcolet Lake DP | 1997 | DBSS | 5/16/97 | - | 1.4 | 5 | 8.7 | 10.89 | 8.6 | 6.94 | 30.2 | 0.02 | 92.5 | - | 377 |
| Chatcolet Lake DP | 1997 | DBSS | 5/16/97 | - | 1.4 | 4 | 9.7 | 10.86 | 8.5 | 6.94 | 30.3 | 0.02 | 92.1 | - | 377 |
| Chatcolet Lake DP | 1997 | DBSS | 5/16/97 | - | 1.4 | 3 | 10.6 | 10.75 | 8.32 | 6.94 | 31 | 0.02 | 90.7 | - | 376 |
| Chatcolet Lake DP | 1997 | DBSS | 5/16/97 | - | 1.4 | 2 | 11.6 | 10.03 | 7.54 | 6.92 | 35.2 | 0.02 | 83.2 | - | 378 |
| Chatcolet Lake DP | 1997 | DBSS | 5/16/97 | - | 1.4 | 1 | 12.7 | 10.04 | 7.48 | 6.92 | 35.4 | 0.02 | 83 | - | 377 |
| | | | | | | | | | | | | | | | |
| Chatcolet Lake DP | 2197 | DBSS | 5/29/97 | - | 1.6 | 11 | 0.3 | 10.62 | 13.44 | 6.98 | 27.4 | 0.02 | 101.2 | - | 360 |
| Chatcolet Lake DP | 2197 | DBSS | 5/29/97 | - | 1.6 | 10 | 2.3 | 10.9 | 9.6 | 6.97 | 26.8 | 0.02 | 95 | - | 363 |
| Chatcolet Lake DP | 2197 | DBSS | 5/29/97 | - | 1.6 | 9 | 3.4 | 10.8 | 8.6 | 6.98 | 26.7 | 0.02 | 91.9 | - | 362 |
| Chatcolet Lake DP | 2197 | DBSS | 5/29/97 | - | 1.6 | 8 | 4.5 | 10.85 | 8.55 | 6.96 | 26.6 | 0.02 | 92.2 | - | 363 |
| Chatcolet Lake DP | 2197 | DBSS | 5/29/97 | - | 1.6 | 7 | 6.5 | 10.88 | 8.35 | 6.96 | 26.5 | 0.02 | 92.1 | - | 362 |
| Chatcolet Lake DP | 2197 | DBSS | 5/29/97 | - | 1.6 | 6 | 7.4 | 10.88 | 8.29 | 6.95 | 26.4 | 0.02 | 91.9 | - | 362 |
| Chatcolet Lake DP | 2197 | DBSS | 5/29/97 | - | 1.6 | 5 | 8.4 | 11.07 | 8.11 | 6.95 | 26.5 | 0.02 | 93.1 | - | 361 |
| Chatcolet Lake DP | 2197 | DBSS | 5/29/97 | - | 1.6 | 4 | 9.3 | 11.05 | 7.88 | 6.95 | 26.4 | 0.02 | 92.4 | - | 360 |
| Chatcolet Lake DP | 2197 | DBSS | 5/29/97 | - | 1.6 | 3 | 10.4 | 11.03 | 7.86 | 6.93 | 26.4 | 0.02 | 92.2 | - | 360 |
| Chatcolet Lake DP | 2197 | DBSS | 5/29/97 | - | 1.6 | 2 | 11.4 | 11 | 7.78 | 6.92 | 26.4 | 0.02 | 91.8 | - | 359 |

| | | | | | | | | | | | | | | | |
|-------------------|------|------|---------|---|-----|----|------|-------|-------|------|------|------|-------|---|-----|
| Chatcolet Lake DP | 2197 | DBSS | 5/29/97 | - | 1.6 | 1 | 12.3 | 10.3 | 7.73 | 6.91 | 27.3 | 0.02 | 85.8 | - | 359 |
| | | | | | | | | | | | | | | | |
| Chatcolet Lake DP | 2397 | DBAS | 6/13/97 | - | 2.1 | 12 | 0.1 | 11.24 | 12.99 | 7.2 | 29.1 | 0.02 | 106.4 | - | 417 |
| Chatcolet Lake DP | 2397 | DBAS | 6/13/97 | - | 2.1 | 11 | 1 | 11.23 | 11.66 | 7.23 | 28.3 | 0.02 | 103.2 | - | 417 |
| Chatcolet Lake DP | 2397 | DBAS | 6/13/97 | - | 2.1 | 10 | 1.9 | 11.08 | 10.38 | 7.21 | 27.5 | 0.02 | 98.8 | - | 419 |
| Chatcolet Lake DP | 2397 | DBAS | 6/13/97 | - | 2.1 | 9 | 3 | 11.09 | 10 | 7.19 | 27.5 | 0.02 | 98 | - | 421 |
| Chatcolet Lake DP | 2397 | DBAS | 6/13/97 | - | 2.1 | 8 | 3.9 | 11.16 | 9.82 | 7.19 | 27.2 | 0.02 | 98.1 | - | 421 |
| Chatcolet Lake DP | 2397 | DBAS | 6/13/97 | - | 2.1 | 7 | 4.9 | 11.2 | 9.72 | 7.19 | 27.1 | 0.02 | 98.2 | - | 421 |
| Chatcolet Lake DP | 2397 | DBAS | 6/13/97 | - | 2.1 | 6 | 6 | 11.07 | 9.67 | 7.2 | 27.1 | 0.02 | 97 | - | 421 |
| Chatcolet Lake DP | 2397 | DBAS | 6/13/97 | - | 2.1 | 5 | 7 | 11.15 | 9.15 | 7.21 | 26.9 | 0.02 | 96.5 | - | 421 |
| Chatcolet Lake DP | 2397 | DBAS | 6/13/97 | - | 2.1 | 4 | 8 | 11.07 | 9.02 | 7.21 | 27 | 0.02 | 95.5 | - | 421 |
| Chatcolet Lake DP | 2397 | DBAS | 6/13/97 | - | 2.1 | 3 | 8.9 | 10.94 | 8.99 | 7.23 | 27.1 | 0.02 | 94.3 | - | 421 |
| Chatcolet Lake DP | 2397 | DBAS | 6/13/97 | - | 2.1 | 2 | 9.8 | 10.84 | 9.04 | 7.26 | 27.3 | 0.02 | 93.5 | - | 419 |
| Chatcolet Lake DP | 2397 | DBAS | 6/13/97 | - | 2.1 | 1 | 10.9 | 10.85 | 8.99 | 7.29 | 27.3 | 0.02 | 93.4 | - | 417 |
| | | | | | | | | | | | | | | | |
| Chatcolet Lake DP | 2597 | DBSS | 6/26/97 | - | 2.5 | 11 | 0.3 | 10.94 | 14.59 | 7.21 | 31.5 | 0.02 | 107.3 | - | 373 |
| Chatcolet Lake DP | 2597 | DBSS | 6/26/97 | - | 2.5 | 10 | 1.4 | 10.94 | 14.45 | 7.17 | 31.5 | 0.02 | 106.9 | - | 375 |
| Chatcolet Lake DP | 2597 | DBSS | 6/26/97 | - | 2.5 | 9 | 2.5 | 11.03 | 13.45 | 7.17 | 31.5 | 0.02 | 105.5 | - | 375 |
| Chatcolet Lake DP | 2597 | DBSS | 6/26/97 | - | 2.5 | 8 | 3.6 | 10.97 | 13.25 | 7.15 | 31.4 | 0.02 | 104.4 | - | 375 |
| Chatcolet Lake DP | 2597 | DBSS | 6/26/97 | - | 2.5 | 7 | 4.6 | 10.99 | 12.95 | 7.12 | 31.2 | 0.02 | 103.8 | - | 375 |
| Chatcolet Lake DP | 2597 | DBSS | 6/26/97 | - | 2.5 | 6 | 5.6 | 10.93 | 12.74 | 7.09 | 31.5 | 0.02 | 102.8 | - | 374 |
| Chatcolet Lake DP | 2597 | DBSS | 6/26/97 | - | 2.5 | 5 | 6.6 | 10.97 | 12.1 | 7.04 | 31.6 | 0.02 | 101.8 | - | 375 |
| Chatcolet Lake DP | 2597 | DBSS | 6/26/97 | - | 2.5 | 4 | 7.7 | 10.35 | 10.92 | 7 | 30.9 | 0.02 | 93.4 | - | 375 |
| Chatcolet Lake DP | 2597 | DBSS | 6/26/97 | - | 2.5 | 3 | 8.7 | 9.68 | 10.68 | 6.98 | 30.2 | 0.02 | 86.8 | - | 374 |
| Chatcolet Lake DP | 2597 | DBSS | 6/26/97 | - | 2.5 | 2 | 9.7 | 9.38 | 10.12 | 6.99 | 30.4 | 0.02 | 83 | - | 372 |
| Chatcolet Lake DP | 2597 | DBSS | 6/26/97 | - | 2.5 | 1 | 10.6 | 9.44 | 10.1 | 7.02 | 30.6 | 0.02 | 83.5 | - | 370 |
| | | | | | | | | | | | | | | | |
| Chatcolet Lake DP | 2797 | DBSS | 7/8/97 | - | 1.8 | 12 | 0.3 | 10.25 | 17.45 | 7.19 | 35.2 | 0.02 | ***** | - | 411 |
| Chatcolet Lake DP | 2797 | DBSS | 7/8/97 | - | 1.8 | 11 | 0.9 | 10.23 | 17.39 | 7.17 | 35.2 | 0.02 | ***** | - | 411 |
| Chatcolet Lake DP | 2797 | DBSS | 7/8/97 | - | 1.8 | 10 | 2.1 | 10.2 | 17.17 | 7.11 | 35.1 | 0.02 | ***** | - | 413 |
| Chatcolet Lake DP | 2797 | DBSS | 7/8/97 | - | 1.8 | 9 | 3.1 | 9.99 | 16.11 | 7.05 | 35.1 | 0.02 | ***** | - | 416 |
| Chatcolet Lake DP | 2797 | DBSS | 7/8/97 | - | 1.8 | 8 | 4 | 9.88 | 15.35 | 7.02 | 34.9 | 0.02 | 98.1 | - | 417 |
| Chatcolet Lake DP | 2797 | DBSS | 7/8/97 | - | 1.8 | 7 | 5 | 9.83 | 14.71 | 6.97 | 33.8 | 0.02 | 96.2 | - | 418 |
| Chatcolet Lake DP | 2797 | DBSS | 7/8/97 | - | 1.8 | 6 | 6 | 9.84 | 13.13 | 6.94 | 33.3 | 0.02 | 93 | - | 420 |
| Chatcolet Lake DP | 2797 | DBSS | 7/8/97 | - | 1.8 | 5 | 7 | 9.5 | 12.69 | 6.91 | 33.1 | 0.02 | 88.9 | - | 421 |
| Chatcolet Lake DP | 2797 | DBSS | 7/8/97 | - | 1.8 | 4 | 8.1 | 8.93 | 12.39 | 6.89 | 33.3 | 0.02 | 83 | - | 421 |
| Chatcolet Lake DP | 2797 | DBSS | 7/8/97 | - | 1.8 | 3 | 9 | 9.12 | 12.25 | 6.89 | 33.2 | 0.02 | 84.5 | - | 421 |
| Chatcolet Lake DP | 2797 | DBSS | 7/8/97 | - | 1.8 | 2 | 10.1 | 8.4 | 11.77 | 6.9 | 33.3 | 0.02 | 77 | - | 418 |
| Chatcolet Lake DP | 2797 | DBSS | 7/8/97 | - | 1.8 | 1 | 11 | 8.23 | 11.64 | 7 | 33.7 | 0.02 | 75.2 | - | 423 |
| | | | | | | | | | | | | | | | |
| Chatcolet Lake DP | 2997 | SSJD | 7/24/97 | - | 3.7 | 12 | 0.6 | 9.86 | 22.15 | 7.99 | 36.4 | 0.02 | ***** | - | 378 |
| Chatcolet Lake DP | 2997 | SSJD | 7/24/97 | - | 3.7 | 11 | 1.8 | 9.85 | 22.15 | 7.96 | 36.4 | 0.02 | ***** | - | 378 |
| Chatcolet Lake DP | 2997 | SSJD | 7/24/97 | - | 3.7 | 10 | 2.9 | 9.97 | 21.67 | 7.85 | 36.8 | 0.02 | ***** | - | 379 |
| Chatcolet Lake DP | 2997 | SSJD | 7/24/97 | - | 3.7 | 9 | 3.9 | 9.81 | 19.33 | 7.18 | 35.8 | 0.02 | ***** | - | 402 |

| | | | | | | | | | | | | | | | |
|-------------------|------|------|---------|---|-----|----|------|-------|-------|------|------|------|-------|---|-----|
| Chatcolet Lake DP | 2997 | SSJD | 7/24/97 | - | 3.7 | 8 | 4.9 | 10.24 | 16.32 | 7.08 | 33.2 | 0.02 | ***** | - | 406 |
| Chatcolet Lake DP | 2997 | SSJD | 7/24/97 | - | 3.7 | 7 | 5.9 | 9.79 | 14.49 | 6.93 | 32.4 | 0.02 | 95.4 | - | 410 |
| Chatcolet Lake DP | 2997 | SSJD | 7/24/97 | - | 3.7 | 6 | 6.9 | 8.29 | 13.58 | 6.84 | 32.1 | 0.02 | 79.2 | - | 413 |
| Chatcolet Lake DP | 2997 | SSJD | 7/24/97 | - | 3.7 | 5 | 7.9 | 7.71 | 13.1 | 6.82 | 32.2 | 0.02 | 72.9 | - | 413 |
| Chatcolet Lake DP | 2997 | SSJD | 7/24/97 | - | 3.7 | 4 | 8.9 | 6.88 | 12.72 | 6.82 | 32.4 | 0.02 | 64.5 | - | 411 |
| Chatcolet Lake DP | 2997 | SSJD | 7/24/97 | - | 3.7 | 3 | 10 | 5.03 | 12.03 | 6.87 | 34.1 | 0.02 | 46.5 | - | 408 |
| Chatcolet Lake DP | 2997 | SSJD | 7/24/97 | - | 3.7 | 2 | 10.9 | 5.19 | 12.08 | 6.97 | 34.1 | 0.02 | 47.9 | - | 402 |
| Chatcolet Lake DP | 2997 | SSJD | 7/24/97 | - | 3.7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | 0 |
| Chatcolet Lake DP | 3197 | DBSS | 8/5/97 | - | 3 | 13 | 0.3 | 11.59 | 24.51 | 9.28 | 42.3 | 0.03 | 137.1 | - | 289 |
| Chatcolet Lake DP | 3197 | DBSS | 8/5/97 | - | 3 | 12 | 1.7 | 11.55 | 24.37 | 9.22 | 42.2 | 0.03 | 136.3 | - | 290 |
| Chatcolet Lake DP | 3197 | DBSS | 8/5/97 | - | 3 | 11 | 2.7 | 10.64 | 23.4 | 8.86 | 40.4 | 0.03 | 123.3 | - | 299 |
| Chatcolet Lake DP | 3197 | DBSS | 8/5/97 | - | 3 | 10 | 3.6 | 10.13 | 22.02 | 7.49 | 39.2 | 0.03 | 114.4 | - | 331 |
| Chatcolet Lake DP | 3197 | DBSS | 8/5/97 | - | 3 | 9 | 4.6 | 9.8 | 18.9 | 7.05 | 35.8 | 0.02 | 104.2 | - | 349 |
| Chatcolet Lake DP | 3197 | DBSS | 8/5/97 | - | 3 | 8 | 5.6 | 9.77 | 16.32 | 6.97 | 33 | 0.02 | 98.4 | - | 351 |
| Chatcolet Lake DP | 3197 | DBSS | 8/5/97 | - | 3 | 7 | 6.5 | 8.09 | 14.44 | 6.84 | 33 | 0.02 | 78.2 | - | 353 |
| Chatcolet Lake DP | 3197 | DBSS | 8/5/97 | - | 3 | 6 | 7.5 | 6.42 | 13.55 | 6.79 | 33.4 | 0.02 | 60.9 | - | 353 |
| Chatcolet Lake DP | 3197 | DBSS | 8/5/97 | - | 3 | 5 | 8.4 | 5.49 | 13.15 | 6.79 | 33.6 | 0.02 | 51.6 | - | 351 |
| Chatcolet Lake DP | 3197 | DBSS | 8/5/97 | - | 3 | 4 | 9.5 | 3.45 | 12.3 | 6.81 | 36.1 | 0.02 | 31.8 | - | 347 |
| Chatcolet Lake DP | 3197 | DBSS | 8/5/97 | - | 3 | 3 | 10.5 | 3.05 | 12.11 | 6.89 | 36.7 | 0.02 | 28 | - | 342 |
| Chatcolet Lake DP | 3197 | DBSS | 8/5/97 | - | 3 | 2 | 11.5 | 2.57 | 12.07 | 7.03 | 38.4 | 0.02 | 23.5 | - | 335 |
| Chatcolet Lake DP | 3197 | DBSS | 8/5/97 | - | 3 | 1 | 12.4 | 2.5 | 12.13 | 7.18 | 39.3 | 0.03 | 23 | - | 343 |
| Chatcolet Lake DP | 3297 | DBSS | 8/13/97 | - | 3.5 | 10 | 0.8 | 9.41 | 22.99 | 8.77 | 42.9 | 0.03 | 108.9 | - | 339 |
| Chatcolet Lake DP | 3297 | DBSS | 8/13/97 | - | 3.5 | 9 | 1.8 | 9.41 | 22.58 | 8.71 | 42.7 | 0.03 | 108.2 | - | 341 |
| Chatcolet Lake DP | 3297 | DBSS | 8/13/97 | - | 3.5 | 8 | 2.8 | 9.27 | 21.79 | 8.4 | 42 | 0.03 | 104.7 | - | 348 |
| Chatcolet Lake DP | 3297 | DBSS | 8/13/97 | - | 3.5 | 7 | 3.8 | 8.8 | 21 | 7.58 | 39.8 | 0.03 | 98 | - | 371 |
| Chatcolet Lake DP | 3297 | DBSS | 8/13/97 | - | 3.5 | 6 | 4.8 | 8.7 | 20.35 | 7.29 | 39.1 | 0.03 | 95.7 | - | 379 |
| Chatcolet Lake DP | 3297 | DBSS | 8/13/97 | - | 3.5 | 5 | 5.8 | 8.91 | 18.18 | 6.95 | 35.4 | 0.02 | 93.9 | - | 392 |
| Chatcolet Lake DP | 3297 | DBSS | 8/13/97 | - | 3.5 | 4 | 6.8 | 6.33 | 15.19 | 6.8 | 34.4 | 0.02 | 62.6 | - | 399 |
| Chatcolet Lake DP | 3297 | DBSS | 8/13/97 | - | 3.5 | 3 | 7.9 | 5.85 | 14.18 | 6.8 | 34.9 | 0.02 | 56.6 | - | 399 |
| Chatcolet Lake DP | 3297 | DBSS | 8/13/97 | - | 3.5 | 2 | 8.8 | 4.53 | 13.48 | 6.82 | 35.8 | 0.02 | 43.2 | - | 399 |
| Chatcolet Lake DP | 3297 | DBSS | 8/13/97 | - | 3.5 | 1 | 9.8 | 2.8 | 13.1 | 6.87 | 39.2 | 0.03 | 26.5 | - | 398 |
| Chatcolet Lake DP | 3497 | DBSS | 8/27/97 | - | 4.4 | 12 | 0.4 | 9.51 | 21.99 | 8.48 | 47.3 | 0.03 | 108.2 | - | 271 |
| Chatcolet Lake DP | 3497 | DBSS | 8/27/97 | - | 4.4 | 11 | 0.7 | 9.54 | 21.97 | 8.49 | 47.4 | 0.03 | 108.4 | - | 267 |
| Chatcolet Lake DP | 3497 | DBSS | 8/27/97 | - | 4.4 | 10 | 1.7 | 9.55 | 21.93 | 8.47 | 47.4 | 0.03 | 108.5 | - | 267 |
| Chatcolet Lake DP | 3497 | DBSS | 8/27/97 | - | 4.4 | 9 | 2.7 | 9.52 | 21.65 | 8.38 | 47.3 | 0.03 | 107.5 | - | 267 |
| Chatcolet Lake DP | 3497 | DBSS | 8/27/97 | - | 4.4 | 8 | 3.7 | 9.54 | 21.51 | 8.34 | 48.8 | 0.03 | 107.5 | - | 265 |
| Chatcolet Lake DP | 3497 | DBSS | 8/27/97 | - | 4.4 | 7 | 4.7 | 9.29 | 21.19 | 7.74 | 45.6 | 0.03 | 104.1 | - | 276 |
| Chatcolet Lake DP | 3497 | DBSS | 8/27/97 | - | 4.4 | 6 | 5.7 | 8.58 | 20.37 | 7.14 | 44.4 | 0.03 | 94.7 | - | 297 |
| Chatcolet Lake DP | 3497 | DBSS | 8/27/97 | - | 4.4 | 5 | 6.7 | 5.59 | 17.27 | 6.77 | 40.6 | 0.03 | 57.9 | - | 313 |
| Chatcolet Lake DP | 3497 | DBSS | 8/27/97 | - | 4.4 | 4 | 7.7 | 4.07 | 16.17 | 6.73 | 40.6 | 0.03 | 41.1 | - | 311 |
| Chatcolet Lake DP | 3497 | DBSS | 8/27/97 | - | 4.4 | 3 | 8.8 | 1.34 | 13.79 | 6.75 | 42.7 | 0.03 | 12.9 | - | 305 |

| | | | | | | | | | | | | | | | |
|-------------------|------|------|----------|---|-----|----|------|-------|-------|------|------|------|-------|-------|-----|
| Chatcolet Lake DP | 3497 | DBSS | 8/27/97 | - | 4.4 | 2 | 9.8 | 0.64 | 13.33 | 6.84 | 46.9 | 0.03 | 6.1 | - | 296 |
| Chatcolet Lake DP | 3497 | DBSS | 8/27/97 | - | 4.4 | 1 | 10.7 | 0.52 | 13.09 | 6.98 | 49 | 0.03 | 4.9 | - | 284 |
| | | | | | | | | | | | | | | | |
| Chatcolet Lake DP | 3797 | DBAS | 9/16/97 | - | 2.2 | 11 | 0.3 | 9.12 | 17.71 | 7.49 | 46.4 | 0.03 | 95.6 | - | 251 |
| Chatcolet Lake DP | 3797 | DBAS | 9/16/97 | - | 2.2 | 10 | 1.7 | 9.11 | 17.71 | 7.48 | 46.4 | 0.03 | 95.4 | - | 248 |
| Chatcolet Lake DP | 3797 | DBAS | 9/16/97 | - | 2.2 | 9 | 2.7 | 9.05 | 17.69 | 7.45 | 46.4 | 0.03 | 94.8 | - | 246 |
| Chatcolet Lake DP | 3797 | DBAS | 9/16/97 | - | 2.2 | 8 | 3.7 | 9.02 | 17.67 | 7.42 | 46.4 | 0.03 | 94.4 | - | 244 |
| Chatcolet Lake DP | 3797 | DBAS | 9/16/97 | - | 2.2 | 7 | 4.7 | 8.93 | 17.66 | 7.39 | 46.3 | 0.03 | 93.5 | - | 241 |
| Chatcolet Lake DP | 3797 | DBAS | 9/16/97 | - | 2.2 | 6 | 5.7 | 9.01 | 17.56 | 7.31 | 46.1 | 0.03 | 93.8 | - | 231 |
| Chatcolet Lake DP | 3797 | DBAS | 9/16/97 | - | 2.2 | 5 | 6.7 | 8.67 | 17.49 | 7.23 | 45.9 | 0.03 | 90.4 | - | 219 |
| Chatcolet Lake DP | 3797 | DBAS | 9/16/97 | - | 2.2 | 4 | 7.7 | 8.58 | 17.49 | 7.15 | 45.8 | 0.03 | 89.5 | - | 205 |
| Chatcolet Lake DP | 3797 | DBAS | 9/16/97 | - | 2.2 | 3 | 8.7 | 2.12 | 16.21 | 6.79 | 46.4 | 0.03 | 21 | - | 156 |
| Chatcolet Lake DP | 3797 | DBAS | 9/16/97 | - | 2.2 | 2 | 9.7 | 0.27 | 12.49 | 6.72 | 74.3 | 0.05 | 2.4 | - | 34 |
| Chatcolet Lake DP | 3797 | DBAS | 9/16/97 | - | 2.2 | 1 | 10.7 | 0.35 | 12.36 | 6.69 | 77.1 | 0.05 | 3.3 | - | 42 |
| | | | | | | | | | | | | | | | |
| Chatcolet Lake DP | 3997 | ASRA | 9/29/97 | - | 3.3 | 11 | 0.6 | 9.55 | 16.12 | 7.43 | 48.5 | 0.03 | 98 | - | 362 |
| Chatcolet Lake DP | 3997 | ASRA | 9/29/97 | - | 3.3 | 10 | 1.6 | 9.51 | 15.72 | 7.41 | 48.3 | 0.03 | 96.8 | - | 362 |
| Chatcolet Lake DP | 3997 | ASRA | 9/29/97 | - | 3.3 | 9 | 2.6 | 9.25 | 15.67 | 7.37 | 48.3 | 0.03 | 94.1 | - | 363 |
| Chatcolet Lake DP | 3997 | ASRA | 9/29/97 | - | 3.3 | 8 | 3.6 | 9.15 | 15.54 | 7.35 | 48.4 | 0.03 | 92.8 | - | 362 |
| Chatcolet Lake DP | 3997 | ASRA | 9/29/97 | - | 3.3 | 7 | 4.6 | 8.95 | 15.47 | 7.31 | 48.4 | 0.03 | 90.7 | - | 362 |
| Chatcolet Lake DP | 3997 | ASRA | 9/29/97 | - | 3.3 | 6 | 5.6 | 8.67 | 15.37 | 7.3 | 48.7 | 0.03 | 87.6 | - | 362 |
| Chatcolet Lake DP | 3997 | ASRA | 9/29/97 | - | 3.3 | 5 | 6.6 | 8.63 | 15.32 | 7.3 | 48.7 | 0.03 | 87.1 | - | 361 |
| Chatcolet Lake DP | 3997 | ASRA | 9/29/97 | - | 3.3 | 4 | 7.6 | 8.53 | 15.27 | 7.3 | 48.8 | 0.03 | 86.2 | - | 359 |
| Chatcolet Lake DP | 3997 | ASRA | 9/29/97 | - | 3.3 | 3 | 8.6 | 8.41 | 15.22 | 7.3 | 48.9 | 0.03 | 84.7 | - | 358 |
| Chatcolet Lake DP | 3997 | ASRA | 9/29/97 | - | 3.3 | 2 | 9.6 | 8.06 | 15.06 | 7.29 | 49.4 | 0.03 | 80.8 | - | 356 |
| Chatcolet Lake DP | 3997 | ASRA | 9/29/97 | - | 3.3 | 1 | 10.6 | 7.99 | 14.99 | 7.32 | 50.4 | 0.03 | 80 | - | 353 |
| | | | | | | | | | | | | | | | |
| Chatcolet Lake DP | 4297 | DBAS | 10/20/97 | - | 2.8 | 11 | 0.3 | 11.17 | 11.63 | 7.54 | 54.9 | 0.04 | 101.7 | - | 372 |
| Chatcolet Lake DP | 4297 | DBAS | 10/20/97 | - | 2.8 | 10 | 1 | 11.1 | 11.56 | 7.5 | 55 | 0.04 | 100.9 | - | 373 |
| Chatcolet Lake DP | 4297 | DBAS | 10/20/97 | - | 2.8 | 9 | 2 | 11.08 | 11.25 | 7.5 | 54.7 | 0.04 | 100 | - | 373 |
| Chatcolet Lake DP | 4297 | DBAS | 10/20/97 | - | 2.8 | 8 | 3 | 11.05 | 11.23 | 7.45 | 54.9 | 0.04 | 99.6 | - | 375 |
| Chatcolet Lake DP | 4297 | DBAS | 10/20/97 | - | 2.8 | 7 | 4 | 10.97 | 11.17 | 7.4 | 54.6 | 0.03 | 98.8 | - | 376 |
| Chatcolet Lake DP | 4297 | DBAS | 10/20/97 | - | 2.8 | 6 | 5 | 10.89 | 11.13 | 7.32 | 54.5 | 0.03 | 98 | - | 378 |
| Chatcolet Lake DP | 4297 | DBAS | 10/20/97 | - | 2.8 | 5 | 6 | 10.81 | 11.07 | 7.24 | 54.5 | 0.03 | 97.1 | - | 381 |
| Chatcolet Lake DP | 4297 | DBAS | 10/20/97 | - | 2.8 | 4 | 7 | 10.67 | 11.04 | 7.15 | 54.6 | 0.03 | 95.8 | - | 384 |
| Chatcolet Lake DP | 4297 | DBAS | 10/20/97 | - | 2.8 | 3 | 8 | 10.53 | 11 | 7.08 | 54.6 | 0.03 | 94.5 | - | 386 |
| Chatcolet Lake DP | 4297 | DBAS | 10/20/97 | - | 2.8 | 2 | 9 | 9.17 | 10.74 | 6.92 | 56.4 | 0.04 | 81.8 | - | 392 |
| Chatcolet Lake DP | 4297 | DBAS | 10/20/97 | - | 2.8 | 1 | 10 | 8.97 | 10.64 | 6.88 | 56.8 | 0.04 | 79.8 | - | 393 |
| | | | | | | | | | | | | | | | |
| Chatcolet Lake DP | 4497 | DBAS | 11/3/97 | - | 2 | 11 | 0.2 | 11.7 | 7.53 | 8.55 | 53.1 | 0.03 | 99.8 | ***** | 418 |
| Chatcolet Lake DP | 4497 | DBAS | 11/3/97 | - | 2 | 10 | 1 | 11.7 | 7.5 | 8.55 | 53.3 | 0.03 | 99.8 | ***** | 419 |
| Chatcolet Lake DP | 4497 | DBAS | 11/3/97 | - | 2 | 9 | 2 | 11.69 | 7.45 | 8.5 | 53.2 | 0.03 | 99.5 | ***** | 421 |
| Chatcolet Lake DP | 4497 | DBAS | 11/3/97 | - | 2 | 8 | 3 | 11.69 | 7.43 | 8.4 | 53.2 | 0.03 | 99.3 | ***** | 419 |
| Chatcolet Lake DP | 4497 | DBAS | 11/3/97 | - | 2 | 7 | 4 | 11.69 | 7.39 | 8.38 | 53.1 | 0.03 | 99.3 | ***** | 420 |

| | | | | | | | | | | | | | | | |
|-------------------|------|------|---------|---|---|---|-----|-------|------|------|------|------|------|-------|-----|
| Chatcolet Lake DP | 4497 | DBAS | 11/3/97 | - | 2 | 6 | 5 | 11.7 | 7.38 | 8.37 | 53.1 | 0.03 | 99.4 | ***** | 417 |
| Chatcolet Lake DP | 4497 | DBAS | 11/3/97 | - | 2 | 5 | 6 | 11.72 | 7.37 | 8.33 | 53.1 | 0.03 | 99.4 | ***** | 416 |
| Chatcolet Lake DP | 4497 | DBAS | 11/3/97 | - | 2 | 4 | 7 | 11.77 | 7.31 | 8.19 | 52.5 | 0.03 | 99.5 | ***** | 417 |
| Chatcolet Lake DP | 4497 | DBAS | 11/3/97 | - | 2 | 3 | 8 | 11.73 | 7.29 | 7.97 | 52 | 0.03 | 98.6 | ***** | 416 |
| Chatcolet Lake DP | 4497 | DBAS | 11/3/97 | - | 2 | 2 | 9 | 11.46 | 7.25 | 7.55 | 52.2 | 0.03 | 95.4 | ***** | 415 |
| Chatcolet Lake DP | 4497 | DBAS | 11/3/97 | - | 2 | 1 | 9.8 | 11.55 | 7.26 | 6.91 | 47.7 | 0.03 | 94.6 | ***** | 414 |

| Location | Phase | Samplers | Date | Time | Secchi (m) | Sequence | Depth (m) | Dissolved Oxygen (mg/L) | Temperature (C) | pH | Conductivity (μs/cm) | TDS | Saturated Dissolved Oxygen | Stabilization Time | Redox |
|-------------------|-------|----------|---------|------|------------|----------|-----------|-------------------------|-----------------|------|----------------------|------|----------------------------|--------------------|-------|
| Chatcolet Lake SH | 1597 | ASSS | 4/18/97 | - | 0.5 | 2 | 0.2 | 12.75 | 5.46 | 7.43 | 32.4 | 0.02 | ***** | - | 325 |
| Chatcolet Lake SH | 1597 | ASSS | 4/18/97 | - | 0.5 | 1 | 0.7 | 13.38 | 5.47 | 7.41 | 32.6 | 0.02 | ***** | - | 320 |
| Chatcolet Lake SH | 1997 | DBSS | 5/16/97 | - | 0.3 | 13 | 0.3 | 11.04 | 10.48 | 6.99 | 27.2 | 0.02 | 98.1 | - | 369 |
| Chatcolet Lake SH | 1997 | DBSS | 5/16/97 | - | 0.3 | 12 | 0.3 | 11.05 | 10.49 | 7 | 27.2 | 0.02 | 98.2 | - | 369 |
| Chatcolet Lake SH | 1997 | DBSS | 5/16/97 | - | 0.3 | 11 | 0.3 | 11.04 | 10.44 | 7.01 | 27.3 | 0.02 | 98 | - | 369 |
| Chatcolet Lake SH | 1997 | DBSS | 5/16/97 | - | 0.3 | 10 | 0.3 | 11.03 | 10.46 | 7.01 | 27.2 | 0.02 | 98 | - | 369 |
| Chatcolet Lake SH | 1997 | DBSS | 5/16/97 | - | 0.3 | 9 | 1.3 | 11.02 | 9.97 | 6.97 | 27 | 0.02 | 95.7 | - | 374 |
| Chatcolet Lake SH | 1997 | DBSS | 5/16/97 | - | 0.3 | 8 | 1.3 | 11 | 9.89 | 6.96 | 27.1 | 0.02 | 96.4 | - | 374 |
| Chatcolet Lake SH | 1997 | DBSS | 5/16/97 | - | 0.3 | 7 | 1.3 | 11.01 | 9.51 | 6.99 | 27 | 0.02 | 95.6 | - | 373 |
| Chatcolet Lake SH | 1997 | DBSS | 5/16/97 | - | 0.3 | 6 | 1.3 | 10.97 | 10.15 | 6.95 | 27.4 | 0.02 | 96.7 | - | 375 |
| Chatcolet Lake SH | 1997 | DBSS | 5/16/97 | - | 0.3 | 5 | 3.1 | 11.21 | 8.56 | 7 | 26.4 | 0.02 | 95.1 | - | 375 |
| Chatcolet Lake SH | 1997 | DBSS | 5/16/97 | - | 0.3 | 4 | 3.1 | 11.21 | 8.58 | 6.99 | 26.3 | 0.02 | 95.2 | - | 375 |
| Chatcolet Lake SH | 1997 | DBSS | 5/16/97 | - | 0.3 | 3 | 3.1 | 11.22 | 8.55 | 6.99 | 26.3 | 0.02 | 95.2 | - | 376 |
| Chatcolet Lake SH | 1997 | DBSS | 5/16/97 | - | 0.3 | 2 | 3.1 | 11.22 | 8.59 | 7 | 26.3 | 0.02 | 95.3 | - | 375 |
| Chatcolet Lake SH | 1997 | DBSS | 5/16/97 | - | 0.3 | 1 | 3.1 | 11.21 | 8.56 | 7.01 | 26.4 | 0.02 | 95.1 | - | 375 |
| Chatcolet Lake SH | 2197 | DBSS | 5/29/97 | - | 1.6 | 10 | 0.2 | 10.8 | 11.38 | 7.04 | 26.8 | 0.02 | 98.2 | - | 368 |
| Chatcolet Lake SH | 2197 | DBSS | 5/29/97 | - | 1.6 | 9 | 0.2 | 10.85 | 11.72 | 7.1 | 18.3 | 0.01 | 99.5 | - | 363 |
| Chatcolet Lake SH | 2197 | DBSS | 5/29/97 | - | 1.6 | 8 | 0.2 | 10.87 | 11.59 | 7.1 | 15.3 | 0.01 | 99.3 | - | 364 |
| Chatcolet Lake SH | 2197 | DBSS | 5/29/97 | - | 1.6 | 7 | 1.4 | 11.32 | 9.74 | 7.07 | 26.7 | 0.02 | 99 | - | 368 |
| Chatcolet Lake SH | 2197 | DBSS | 5/29/97 | - | 1.6 | 6 | 1.4 | 11.32 | 9.69 | 7.07 | 26.7 | 0.02 | 99.1 | - | 368 |
| Chatcolet Lake SH | 2197 | DBSS | 5/29/97 | - | 1.6 | 5 | 1.4 | 11.35 | 9.68 | 7.08 | 26.6 | 0.02 | 99.4 | - | 368 |
| Chatcolet Lake SH | 2197 | DBSS | 5/29/97 | - | 1.6 | 4 | 2.3 | 11.51 | 9.32 | 7.08 | 26.5 | 0.02 | 99.7 | - | 369 |
| Chatcolet Lake SH | 2197 | DBSS | 5/29/97 | - | 1.6 | 3 | 2.3 | 11.53 | 9.32 | 7.08 | 26.5 | 0.02 | 99.9 | - | 369 |
| Chatcolet Lake SH | 2197 | DBSS | 5/29/97 | - | 1.6 | 2 | 2.3 | 11.52 | 9.33 | 7.07 | 26.5 | 0.02 | 100 | - | 369 |
| Chatcolet Lake SH | 2197 | DBSS | 5/29/97 | - | 1.6 | 1 | 2.4 | 11.57 | 9.35 | 7.08 | 26.6 | 0.02 | 100.3 | - | 368 |
| Chatcolet Lake SH | 2397 | DBAS | 6/11/97 | - | 1.6 | 10 | 0.4 | 10.75 | 11.8 | 7.09 | 28.7 | 0.02 | 99.1 | - | 394 |
| Chatcolet Lake SH | 2397 | DBAS | 6/11/97 | - | 1.6 | 9 | 0.4 | 10.7 | 11.74 | 7.1 | 28.8 | 0.02 | 98.5 | - | 395 |
| Chatcolet Lake SH | 2397 | DBAS | 6/11/97 | - | 1.6 | 8 | 0.3 | 10.71 | 11.86 | 7.11 | 28.7 | 0.02 | 98.8 | - | 394 |
| Chatcolet Lake SH | 2397 | DBAS | 6/11/97 | - | 1.6 | 7 | 0.9 | 10.95 | 11.15 | 7.1 | 28.7 | 0.02 | 99.4 | - | 396 |
| Chatcolet Lake SH | 2397 | DBAS | 6/11/97 | - | 1.6 | 6 | 0.9 | 10.93 | 11.31 | 7.11 | 28.5 | 0.02 | 99.6 | - | 396 |
| Chatcolet Lake SH | 2397 | DBAS | 6/11/97 | - | 1.6 | 5 | 0.9 | 10.94 | 11.18 | 7.12 | 28.3 | 0.02 | 99.4 | - | 395 |

| | | | | | | | | | | | | | | | |
|-------------------|------|------|----------|---|-----|----|-----|-------|-------|------|------|------|-------|---|-----|
| Chatcolet Lake SH | 2397 | DBAS | 6/11/97 | - | 1.6 | 4 | 0.9 | 10.97 | 11.1 | 7.11 | 28.4 | 0.02 | 99.5 | - | 396 |
| Chatcolet Lake SH | 2397 | DBAS | 6/11/97 | - | 1.6 | 3 | 1.5 | 11.07 | 10.98 | 7.11 | 28.3 | 0.02 | 100.1 | - | 398 |
| Chatcolet Lake SH | 2397 | DBAS | 6/11/97 | - | 1.6 | 2 | 1.5 | 11.12 | 10.89 | 7.11 | 28.4 | 0.02 | 100.4 | - | 398 |
| Chatcolet Lake SH | 2397 | DBAS | 6/11/97 | - | 1.6 | 1 | 1.5 | 11.16 | 10.88 | 7.12 | 28.3 | 0.02 | 100.7 | - | 398 |
| Chatcolet Lake SH | 2597 | DBAC | 6/26/97 | - | 0.7 | 10 | 0.2 | 11.42 | 11.88 | 7.25 | 31.8 | 0.02 | 105.4 | - | 388 |
| Chatcolet Lake SH | 2597 | DBAC | 6/26/97 | - | 0.7 | 9 | 0.2 | 11.38 | 11.97 | 6.9 | 0.7 | 0 | 105.1 | - | 405 |
| Chatcolet Lake SH | 2597 | DBAC | 6/26/97 | - | 0.7 | 8 | 0.2 | 11.43 | 11.9 | 7.25 | 31.8 | 0.02 | 105.4 | - | 389 |
| Chatcolet Lake SH | 2597 | DBAC | 6/26/97 | - | 0.7 | 7 | 0.2 | 11.44 | 11.88 | 7.26 | 31.8 | 0.02 | 105.6 | - | 389 |
| Chatcolet Lake SH | 2597 | DBAC | 6/26/97 | - | 0.7 | 6 | 0.2 | 11.44 | 11.92 | 7.26 | 31.8 | 0.02 | 105.5 | - | 389 |
| Chatcolet Lake SH | 2597 | DBAC | 6/26/97 | - | 0.7 | 5 | 0.7 | 11.39 | 11.87 | 7.24 | 31.9 | 0.02 | 105 | - | 392 |
| Chatcolet Lake SH | 2597 | DBAC | 6/26/97 | - | 0.7 | 4 | 0.7 | 11.41 | 11.85 | 7.27 | 31.8 | 0.02 | 105.2 | - | 391 |
| Chatcolet Lake SH | 2597 | DBAC | 6/26/97 | - | 0.7 | 3 | 0.7 | 11.43 | 11.84 | 7.27 | 31.8 | 0.02 | 105.3 | - | 391 |
| Chatcolet Lake SH | 2597 | DBAC | 6/26/97 | - | 0.7 | 2 | 0.7 | 11.4 | 11.87 | 7.27 | 31.8 | 0.02 | 105.2 | - | 391 |
| Chatcolet Lake SH | 2597 | DBAC | 6/26/97 | - | 0.7 | 1 | 0.7 | 11.44 | 11.87 | 7.27 | 31.8 | 0.02 | 105.5 | - | 391 |
| Chatcolet Lake SH | 2797 | DBSS | 7/8/97 | - | 0.7 | 2 | 0.2 | 10.12 | 16.22 | 7.28 | 35.2 | 0.02 | ***** | - | 406 |
| Chatcolet Lake SH | 2797 | DBSS | 7/8/97 | - | 0.7 | 1 | 0.8 | 10.17 | 16.19 | 7.29 | 35.2 | 0.02 | ***** | - | 409 |
| Chatcolet Lake SH | 2997 | SSJD | 7/24/97 | - | 0.8 | 10 | 0.3 | 11.24 | 22.77 | 9.09 | 38.9 | 0.02 | ***** | - | 356 |
| Chatcolet Lake SH | 2997 | SSJD | 7/24/97 | - | 0.8 | 9 | 0.3 | 11.33 | 22.93 | 9.1 | 39 | 0.02 | ***** | - | 357 |
| Chatcolet Lake SH | 2997 | SSJD | 7/24/97 | - | 0.8 | 8 | 0.3 | 11.39 | 23.04 | 9.12 | 39 | 0.03 | ***** | - | 356 |
| Chatcolet Lake SH | 2997 | SSJD | 7/24/97 | - | 0.8 | 7 | 0.3 | 11.5 | 22.99 | 9.1 | 39 | 0.03 | ***** | - | 357 |
| Chatcolet Lake SH | 2997 | SSJD | 7/24/97 | - | 0.8 | 6 | 0.2 | 11.19 | 22.95 | 9.03 | 39 | 0.02 | ***** | - | 361 |
| Chatcolet Lake SH | 2997 | SSJD | 7/24/97 | - | 0.8 | 5 | 1 | 11.36 | 20.13 | 8.43 | 38.2 | 0.02 | ***** | - | 382 |
| Chatcolet Lake SH | 2997 | SSJD | 7/24/97 | - | 0.8 | 4 | 1 | 11.45 | 20.09 | 8.47 | 38 | 0.02 | ***** | - | 379 |
| Chatcolet Lake SH | 2997 | SSJD | 7/24/97 | - | 0.8 | 3 | 1 | 11.51 | 20.11 | 8.49 | 38.1 | 0.02 | ***** | - | 378 |
| Chatcolet Lake SH | 2997 | SSJD | 7/24/97 | - | 0.8 | 2 | 0 | 11.47 | 20.18 | 8.45 | 38.1 | 0.02 | ***** | - | 379 |
| Chatcolet Lake SH | 2997 | SSJD | 7/24/97 | - | 0.8 | 1 | 1 | 11.55 | 20.09 | 8.47 | 38 | 0.02 | ***** | - | 378 |
| Chatcolet Lake SH | 3197 | DBSS | 8/5/97 | - | 1 | 2 | 0.3 | 12.26 | 25.72 | 9.28 | 46 | 0.03 | 148.1 | - | 295 |
| Chatcolet Lake SH | 3197 | DBSS | 8/5/97 | - | 1 | 1 | 0.9 | 12.94 | 22.95 | 9.04 | 46.6 | 0.03 | 148.9 | - | 304 |
| Chatcolet Lake SH | 3297 | DBSS | 8/14/97 | - | 1.1 | 2 | 0.3 | 11.62 | 24.37 | 9.54 | 53.3 | 0.03 | 138 | - | 279 |
| Chatcolet Lake SH | 3297 | DBSS | 8/14/97 | - | 1.1 | 1 | 1.1 | 11.73 | 24.29 | 9.63 | 52.4 | 0.03 | 139.1 | - | 276 |
| Chatcolet Lake SH | 3497 | DBSS | 8/27/97 | - | 0.8 | 1 | 0.8 | 11.39 | 21.49 | 8.62 | 56.9 | 0.04 | 128.4 | - | 277 |
| Chatcolet Lake SH | 3797 | DBAS | 9/16/97 | - | 1 | 1 | 0.8 | 10.41 | 15.56 | 7.79 | 54.3 | 0.03 | 104.2 | - | 256 |
| Chatcolet Lake SH | 3997 | ASRA | 9/29/97 | - | 0.4 | 1 | 0.4 | 12.26 | 16.46 | 8.31 | 53.6 | 0.03 | 126.8 | - | 362 |
| Chatcolet Lake SH | 4297 | DBAS | 10/20/97 | - | 1 | 2 | 0.3 | 10.98 | 10.61 | 7.11 | 53.4 | 0.03 | 97.6 | - | 372 |
| Chatcolet Lake SH | 4297 | DBAS | 10/20/97 | - | 1 | 1 | 0.7 | 10.16 | 9.02 | 7 | 57.2 | 0.04 | 87 | - | 379 |

| | | | | | | | | | | | | | | | |
|-------------------|------|------|---------|---|-----|---|-----|-------|------|------|------|------|------|-------|-----|
| | | | | | | | | | | | | | | | |
| Chatcolet Lake SH | 4497 | DBAS | 11/3/97 | - | 0.9 | 2 | 0.2 | 11.72 | 7.28 | 6.97 | 42.6 | 0.03 | 96.2 | ***** | 418 |
| Chatcolet Lake SH | 4497 | DBAS | 11/3/97 | - | 0.9 | 1 | 0.8 | 11.86 | 7.26 | 6.96 | 43 | 0.03 | 97.3 | ***** | 424 |

| Location | Phase | Samplers | Date | Time | Secchi (m) | Sequence | Depth (m) | Dissolved Oxygen (mg/L) | Temperature (C) | pH | Conductivity (µs/cm) | TDS | Saturated Dissolved Oxygen | Stabilization Time | Redox |
|--------------|-------|----------|---------|------|------------|----------|-----------|-------------------------|-----------------|------|----------------------|------|----------------------------|--------------------|-------|
| Benewah Lake | 1597 | ASSS | 4/18/97 | - | 0.8 | 3 | 0.2 | 11.66 | 9.27 | 7.36 | 28.1 | 0.02 | ***** | - | 363 |
| Benewah Lake | 1597 | ASSS | 4/18/97 | - | 0.8 | 2 | 1.6 | 11.46 | 8.92 | 7.32 | 27.9 | 0.02 | 99 | - | 367 |
| Benewah Lake | 1597 | ASSS | 4/18/97 | - | 0.8 | 1 | 4.3 | 11.42 | 7.02 | 7.36 | 24.8 | 0.02 | ***** | - | 366 |
| Benewah Lake | 1997 | DBSS | 5/16/97 | - | 1.1 | 10 | 0.3 | 10.12 | 16.39 | 6.97 | 31.6 | 0.02 | 102.6 | - | 369 |
| Benewah Lake | 1997 | DBSS | 5/16/97 | - | 1.1 | 9 | 1.1 | 9.81 | 15.1 | 6.95 | 31.2 | 0.02 | 96.8 | - | 371 |
| Benewah Lake | 1997 | DBSS | 5/16/97 | - | 1.1 | 8 | 1.8 | 11.11 | 8.71 | 7 | 26.6 | 0.02 | 94.8 | - | 372 |
| Benewah Lake | 1997 | DBSS | 5/16/97 | - | 1.1 | 7 | 2.5 | 11.1 | 8.53 | 7.02 | 26.6 | 0.02 | 94.1 | - | 372 |
| Benewah Lake | 1997 | DBSS | 5/16/97 | - | 1.1 | 6 | 3.3 | 11.07 | 8.4 | 7.01 | 26.5 | 0.02 | 93.6 | - | 372 |
| Benewah Lake | 1997 | DBSS | 5/16/97 | - | 1.1 | 5 | 3.9 | 11.04 | 8.38 | 7.01 | 26.7 | 0.02 | 93.3 | - | 372 |
| Benewah Lake | 1997 | DBSS | 5/16/97 | - | 1.1 | 4 | 4.7 | 11 | 8.36 | 7.02 | 26.7 | 0.02 | 92.9 | - | 372 |
| Benewah Lake | 1997 | DBSS | 5/16/97 | - | 1.1 | 3 | 5.6 | 10.94 | 8.36 | 7.03 | 27 | 0.02 | 92.5 | - | 371 |
| Benewah Lake | 1997 | DBSS | 5/16/97 | - | 1.1 | 2 | 6.2 | 10.8 | 8.35 | 7.02 | 27.2 | 0.02 | 91 | - | 371 |
| Benewah Lake | 1997 | DBSS | 5/16/97 | - | 1.1 | 1 | 7 | 10.47 | 8.25 | 7.04 | 27.7 | 0.02 | 88.2 | - | 371 |
| Benewah Lake | 2197 | DBSS | 5/29/97 | - | 2 | 12 | 0.8 | 10.09 | 13.9 | 6.97 | 28 | 0.02 | 97.1 | - | 351 |
| Benewah Lake | 2197 | DBSS | 5/29/97 | - | 2 | 11 | 0.8 | 10.05 | 13.88 | 6.97 | 27.6 | 0.02 | 96.7 | - | 350 |
| Benewah Lake | 2197 | DBSS | 5/29/97 | - | 2 | 10 | 1.8 | 10.85 | 9.35 | 6.97 | 27 | 0.02 | 94.1 | - | 351 |
| Benewah Lake | 2197 | DBSS | 5/29/97 | - | 2 | 9 | 1.8 | 11.02 | 9.17 | 6.96 | 27 | 0.02 | 95.1 | - | 351 |
| Benewah Lake | 2197 | DBSS | 5/29/97 | - | 2 | 8 | 2.8 | 11.1 | 8.71 | 6.94 | 26.7 | 0.02 | 94.8 | - | 351 |
| Benewah Lake | 2197 | DBSS | 5/29/97 | - | 2 | 7 | 2.8 | 11.08 | 8.65 | 6.96 | 26.7 | 0.02 | 94.4 | - | 350 |
| Benewah Lake | 2197 | DBSS | 5/29/97 | - | 2 | 6 | 3.9 | 10.82 | 8.37 | 6.92 | 26.8 | 0.02 | 91.6 | - | 350 |
| Benewah Lake | 2197 | DBSS | 5/29/97 | - | 2 | 5 | 3.9 | 10.83 | 8.35 | 6.93 | 26.6 | 0.02 | 91.6 | - | 349 |
| Benewah Lake | 2197 | DBSS | 5/29/97 | - | 2 | 4 | 4.9 | 10.54 | 7.89 | 6.92 | 26.5 | 0.02 | 88.2 | - | 346 |
| Benewah Lake | 2197 | DBSS | 5/29/97 | - | 2 | 3 | 4.9 | 10.59 | 7.89 | 6.92 | 26.7 | 0.02 | 88.6 | - | 347 |
| Benewah Lake | 2197 | DBSS | 5/29/97 | - | 2 | 2 | 5.9 | 10.3 | 7.66 | 6.92 | 26.6 | 0.02 | 85.7 | - | 352 |
| Benewah Lake | 2197 | DBSS | 5/29/97 | - | 2 | 1 | 5.9 | 10.35 | 7.65 | 6.92 | 26.5 | 0.02 | 86.1 | - | 350 |
| Benewah Lake | 2397 | DBAS | 6/11/97 | - | 2.5 | 10 | 0.4 | 9.39 | 17.73 | 6.99 | 32.6 | 0.02 | 98.5 | - | 399 |
| Benewah Lake | 2397 | DBAS | 6/11/97 | - | 2.5 | 9 | 0.4 | 9.43 | 17.83 | 7 | 32.5 | 0.02 | 99.1 | - | 399 |
| Benewah Lake | 2397 | DBAS | 6/11/97 | - | 2.5 | 8 | 0.3 | 9.43 | 17.9 | 7 | 32.4 | 0.02 | 99.2 | - | 399 |
| Benewah Lake | 2397 | DBAS | 6/11/97 | - | 2.5 | 7 | 0.9 | 9.82 | 15.89 | 7.01 | 32.7 | 0.02 | 99.1 | - | 399 |
| Benewah Lake | 2397 | DBAS | 6/11/97 | - | 2.5 | 6 | 1.9 | 10.25 | 14.21 | 7 | 30.3 | 0.02 | 99.8 | - | 400 |
| Benewah Lake | 2397 | DBAS | 6/11/97 | - | 2.5 | 5 | 2.8 | 11.19 | 11.04 | 6.95 | 28.6 | 0.02 | 101.4 | - | 402 |
| Benewah Lake | 2397 | DBAS | 6/11/97 | - | 2.5 | 4 | 3.9 | 9.41 | 8.78 | 6.86 | 28.8 | 0.02 | 80.9 | - | 407 |
| Benewah Lake | 2397 | DBAS | 6/11/97 | - | 2.5 | 3 | 4.8 | 8.36 | 8.6 | 6.85 | 30.2 | 0.02 | 71.5 | - | 407 |
| Benewah Lake | 2397 | DBAS | 6/11/97 | - | 2.5 | 2 | 4.8 | 8.38 | 8.6 | 6.86 | 29.9 | 0.02 | 71.6 | - | 407 |

| | | | | | | | | | | | | | | | |
|--------------|------|------|---------|---|-----|----|-----|-------|-------|------|------|------|-------|---|-----|
| Benewah Lake | 2397 | DBAS | 6/11/97 | - | 2.5 | 1 | 4.8 | 8.41 | 8.56 | 6.87 | 29.7 | 0.02 | 71.8 | - | 406 |
| | | | | | | | | | | | | | | | |
| Benewah Lake | 2597 | DBSS | 6/26/97 | - | 3.1 | 12 | 0.3 | 10.31 | 18.63 | 7.36 | 33.9 | 0.02 | 110 | - | 384 |
| Benewah Lake | 2597 | DBSS | 6/26/97 | - | 3.1 | 11 | 0.3 | 10.3 | 18.65 | 7.36 | 33.9 | 0.02 | 110 | - | 383 |
| Benewah Lake | 2597 | DBSS | 6/26/97 | - | 3.1 | 10 | 0.9 | 10.32 | 18.57 | 7.34 | 33.9 | 0.02 | 110 | - | 384 |
| Benewah Lake | 2597 | DBSS | 6/26/97 | - | 3.1 | 9 | 0.9 | 10.31 | 18.59 | 7.32 | 33.9 | 0.02 | 109.9 | - | 384 |
| Benewah Lake | 2597 | DBSS | 6/26/97 | - | 3.1 | 8 | 1.9 | 10.39 | 17.97 | 7.22 | 34 | 0.02 | 109.4 | - | 386 |
| Benewah Lake | 2597 | DBSS | 6/26/97 | - | 3.1 | 7 | 1.9 | 10.33 | 18.02 | 7.21 | 33.8 | 0.02 | 108.9 | - | 386 |
| Benewah Lake | 2597 | DBSS | 6/26/97 | - | 3.1 | 6 | 2.8 | 11.07 | 13.35 | 7.02 | 31.1 | 0.02 | 105.6 | - | 391 |
| Benewah Lake | 2597 | DBSS | 6/26/97 | - | 3.1 | 5 | 2.8 | 11.04 | 13.35 | 7 | 30.9 | 0.02 | 105.3 | - | 391 |
| Benewah Lake | 2597 | DBSS | 6/26/97 | - | 3.1 | 4 | 3.7 | 8.49 | 10.92 | 6.78 | 30.5 | 0.02 | 76.6 | - | 398 |
| Benewah Lake | 2597 | DBSS | 6/26/97 | - | 3.1 | 3 | 3.7 | 8.43 | 10.9 | 6.78 | 30.3 | 0.02 | 76 | - | 398 |
| Benewah Lake | 2597 | DBSS | 6/26/97 | - | 3.1 | 2 | 4.7 | 5.4 | 9.84 | 6.77 | 33.7 | 0.02 | 47.5 | - | 398 |
| Benewah Lake | 2597 | DBSS | 6/26/97 | - | 3.1 | 1 | 4.7 | 5.43 | 9.84 | 6.78 | 33.7 | 0.02 | 47.7 | - | 398 |
| | | | | | | | | | | | | | | | |
| Benewah Lake | 2797 | DBSS | 7/8/97 | - | 2.3 | 6 | 0.3 | 10.59 | 21.76 | 8.31 | 35.9 | 0.02 | ***** | - | 370 |
| Benewah Lake | 2797 | DBSS | 7/8/97 | - | 2.3 | 5 | 0.8 | 10.62 | 21.56 | 7.85 | 36 | 0.02 | ***** | - | 377 |
| Benewah Lake | 2797 | DBSS | 7/8/97 | - | 2.3 | 4 | 1.8 | 11.49 | 17.39 | 7.29 | 35.3 | 0.02 | ***** | - | 398 |
| Benewah Lake | 2797 | DBSS | 7/8/97 | - | 2.3 | 3 | 2.7 | 11.51 | 14.86 | 7.09 | 33.8 | 0.02 | ***** | - | 408 |
| Benewah Lake | 2797 | DBSS | 7/8/97 | - | 2.3 | 2 | 3.6 | 9.61 | 13.13 | 6.92 | 33.1 | 0.02 | 90.9 | - | 417 |
| Benewah Lake | 2797 | DBSS | 7/8/97 | - | 2.3 | 1 | 4.6 | 5.87 | 11.66 | 6.9 | 36 | 0.02 | 53.6 | - | 421 |
| | | | | | | | | | | | | | | | |
| Benewah Lake | 2997 | SSJD | 7/24/97 | - | 3 | 10 | 0.4 | 10.59 | 23.51 | 9.06 | 37.8 | 0.02 | ***** | - | 356 |
| Benewah Lake | 2997 | SSJD | 7/24/97 | - | 3 | 9 | 0 | 10.66 | 23.29 | 9.02 | 37.8 | 0.02 | ***** | - | 358 |
| Benewah Lake | 2997 | SSJD | 7/24/97 | - | 3 | 8 | 1 | 10.58 | 23.37 | 9.03 | 37.8 | 0.02 | ***** | - | 358 |
| Benewah Lake | 2997 | SSJD | 7/24/97 | - | 3 | 7 | 1.9 | 10.62 | 23.2 | 8.9 | 37.5 | 0.02 | ***** | - | 361 |
| Benewah Lake | 2997 | SSJD | 7/24/97 | - | 3 | 6 | 2 | 10.67 | 23.01 | 8.72 | 37.6 | 0.02 | ***** | - | 366 |
| Benewah Lake | 2997 | SSJD | 7/24/97 | - | 3 | 5 | 3 | 11.46 | 18.22 | 7.41 | 34 | 0.02 | ***** | - | 407 |
| Benewah Lake | 2997 | SSJD | 7/24/97 | - | 3 | 4 | 3 | 11.38 | 18.08 | 7.31 | 33.6 | 0.02 | ***** | - | 409 |
| Benewah Lake | 2997 | SSJD | 7/24/97 | - | 3 | 3 | 4 | 10.54 | 15.01 | 7.05 | 33 | 0.02 | ***** | - | 421 |
| Benewah Lake | 2997 | SSJD | 7/24/97 | - | 3 | 2 | 4 | 9.11 | 14.54 | 6.99 | 34.9 | 0.02 | 88.9 | - | 426 |
| Benewah Lake | 2997 | SSJD | 7/24/97 | - | 3 | 1 | 4.8 | 5.06 | 13.37 | 6.97 | 40.5 | 0.03 | 48.2 | - | 437 |
| | | | | | | | | | | | | | | | |
| Benewah Lake | 3197 | DBSS | 8/5/97 | - | 2.7 | 5 | 0.3 | 11.3 | 26.45 | 9.38 | 42.4 | 0.03 | 138.4 | - | 259 |
| Benewah Lake | 3197 | DBSS | 8/5/97 | - | 2.7 | 4 | 1.6 | 11.69 | 24.11 | 9.41 | 42.5 | 0.03 | 137.3 | - | 256 |
| Benewah Lake | 3197 | DBSS | 8/5/97 | - | 2.7 | 3 | 2.8 | 10.7 | 22.54 | 8.41 | 39.8 | 0.03 | 122 | - | 276 |
| Benewah Lake | 3197 | DBSS | 8/5/97 | - | 2.7 | 2 | 3.6 | 10.2 | 20.44 | 7.28 | 37.3 | 0.02 | 111.7 | - | 309 |
| Benewah Lake | 3197 | DBSS | 8/5/97 | - | 2.7 | 1 | 4.7 | 2.78 | 15.59 | 7.06 | 47.9 | 0.03 | 27.2 | - | 337 |
| | | | | | | | | | | | | | | | |
| Benewah Lake | 3297 | DBSS | 8/14/97 | - | 4.3 | 9 | 0.4 | 8.91 | 23.87 | 8.9 | 42 | 0.03 | 104.8 | - | 260 |
| Benewah Lake | 3297 | DBSS | 8/14/97 | - | 4.3 | 8 | 0.9 | 8.91 | 23.86 | 8.9 | 42 | 0.03 | 104.8 | - | 256 |
| Benewah Lake | 3297 | DBSS | 8/14/97 | - | 4.3 | 7 | 1.4 | 8.89 | 23.86 | 8.91 | 42 | 0.03 | 104.6 | - | 251 |
| Benewah Lake | 3297 | DBSS | 8/14/97 | - | 4.3 | 6 | 1.9 | 8.89 | 23.76 | 8.83 | 42.1 | 0.03 | 104.4 | - | 250 |
| Benewah Lake | 3297 | DBSS | 8/14/97 | - | 4.3 | 5 | 2.3 | 8.88 | 23.75 | 8.74 | 42 | 0.03 | 104.3 | - | 248 |

| | | | | | | | | | | | | | | | |
|--------------|------|------|----------|---|-----|----|-----|-------|-------|------|------|------|-------|---|-----|
| Benewah Lake | 3297 | DBSS | 8/14/97 | - | 4.3 | 4 | 2.9 | 7.94 | 22.77 | 8.28 | 41.6 | 0.03 | 91.6 | - | 254 |
| Benewah Lake | 3297 | DBSS | 8/14/97 | - | 4.3 | 3 | 3.4 | 8.65 | 20.97 | 7.3 | 41.2 | 0.03 | 96.3 | - | 277 |
| Benewah Lake | 3297 | DBSS | 8/14/97 | - | 4.3 | 2 | 3.9 | 8.53 | 20.2 | 7.12 | 41.6 | 0.03 | 93.4 | - | 277 |
| Benewah Lake | 3297 | DBSS | 8/14/97 | - | 4.3 | 1 | 4.4 | 2.15 | 18.22 | 6.93 | 49.6 | 0.03 | 22.7 | - | 293 |
| Benewah Lake | 3497 | DBSS | 8/27/97 | - | 3.8 | 10 | 0.3 | 9.39 | 22.33 | 8.27 | 46.4 | 0.03 | 107.6 | - | 271 |
| Benewah Lake | 3497 | DBSS | 8/27/97 | - | 3.8 | 9 | 0.8 | 9.41 | 22.18 | 8.36 | 46.5 | 0.03 | 107.5 | - | 264 |
| Benewah Lake | 3497 | DBSS | 8/27/97 | - | 3.8 | 8 | 1.3 | 9.42 | 22.08 | 8.35 | 46.6 | 0.03 | 107.3 | - | 263 |
| Benewah Lake | 3497 | DBSS | 8/27/97 | - | 3.8 | 7 | 1.8 | 9.46 | 21.85 | 8.37 | 46.6 | 0.03 | 107.3 | - | 260 |
| Benewah Lake | 3497 | DBSS | 8/27/97 | - | 3.8 | 6 | 2.3 | 9.64 | 21.58 | 8.49 | 46.6 | 0.03 | 108.8 | - | 253 |
| Benewah Lake | 3497 | DBSS | 8/27/97 | - | 3.8 | 5 | 2.8 | 9.6 | 21.49 | 8.45 | 46.6 | 0.03 | 108.1 | - | 250 |
| Benewah Lake | 3497 | DBSS | 8/27/97 | - | 3.8 | 4 | 3.3 | 9.59 | 21.44 | 8.39 | 46.7 | 0.03 | 108 | - | 248 |
| Benewah Lake | 3497 | DBSS | 8/27/97 | - | 3.8 | 3 | 3.7 | 9.2 | 21.32 | 8.03 | 46.6 | 0.03 | 103.3 | - | 248 |
| Benewah Lake | 3497 | DBSS | 8/27/97 | - | 3.8 | 2 | 4.3 | 3.62 | 19.73 | 6.74 | 54.2 | 0.03 | 39.4 | - | 292 |
| Benewah Lake | 3497 | DBSS | 8/27/97 | - | 3.8 | 1 | 4.8 | 1.44 | 18.97 | 6.69 | 57.1 | 0.04 | 15.5 | - | 280 |
| Benewah Lake | 3797 | DBAS | 9/16/97 | - | 1.5 | 10 | 0.2 | 8.58 | 17.07 | 7.22 | 46.1 | 0.03 | 88.5 | - | 308 |
| Benewah Lake | 3797 | DBAS | 9/16/97 | - | 1.5 | 9 | 0.5 | 8.57 | 17.07 | 7.22 | 46 | 0.03 | 88.6 | - | 308 |
| Benewah Lake | 3797 | DBAS | 9/16/97 | - | 1.5 | 8 | 1 | 8.56 | 17.05 | 7.22 | 46.1 | 0.03 | 88.4 | - | 307 |
| Benewah Lake | 3797 | DBAS | 9/16/97 | - | 1.5 | 7 | 1.5 | 8.53 | 17.07 | 7.23 | 46 | 0.03 | 88.3 | - | 306 |
| Benewah Lake | 3797 | DBAS | 9/16/97 | - | 1.5 | 6 | 2 | 8.57 | 17.07 | 7.23 | 46 | 0.03 | 88.6 | - | 304 |
| Benewah Lake | 3797 | DBAS | 9/16/97 | - | 1.5 | 5 | 2.5 | 8.64 | 17.05 | 7.23 | 46.1 | 0.03 | 89.3 | - | 302 |
| Benewah Lake | 3797 | DBAS | 9/16/97 | - | 1.5 | 4 | 3 | 8.7 | 17.05 | 7.23 | 46 | 0.03 | 90 | - | 300 |
| Benewah Lake | 3797 | DBAS | 9/16/97 | - | 1.5 | 3 | 3.5 | 8.73 | 17.03 | 7.23 | 46.1 | 0.03 | 90.2 | - | 297 |
| Benewah Lake | 3797 | DBAS | 9/16/97 | - | 1.5 | 2 | 4 | 8.71 | 17.03 | 7.24 | 46 | 0.03 | 90 | - | 296 |
| Benewah Lake | 3797 | DBAS | 9/16/97 | - | 1.5 | 1 | 4.5 | 8.73 | 17.03 | 7.23 | 46 | 0.03 | 90.2 | - | 300 |
| Benewah Lake | 3997 | ASRA | 9/29/97 | - | 2.2 | 8 | 0.3 | 9.77 | 16.41 | 7.41 | 45.9 | 0.03 | 100.9 | - | 382 |
| Benewah Lake | 3997 | ASRA | 9/29/97 | - | 2.2 | 7 | 1 | 9.9 | 15.76 | 7.41 | 46 | 0.03 | 100.8 | - | 382 |
| Benewah Lake | 3997 | ASRA | 9/29/97 | - | 2.2 | 6 | 1.5 | 9.87 | 15.4 | 7.39 | 45.8 | 0.03 | 99.8 | - | 383 |
| Benewah Lake | 3997 | ASRA | 9/29/97 | - | 2.2 | 5 | 2 | 9.78 | 15.3 | 7.37 | 45.8 | 0.03 | 98.7 | - | 383 |
| Benewah Lake | 3997 | ASRA | 9/29/97 | - | 2.2 | 4 | 2.5 | 9.49 | 15.19 | 7.33 | 45.8 | 0.03 | 95.5 | - | 385 |
| Benewah Lake | 3997 | ASRA | 9/29/97 | - | 2.2 | 3 | 3 | 9.42 | 15.1 | 7.32 | 45.8 | 0.03 | 94.6 | - | 384 |
| Benewah Lake | 3997 | ASRA | 9/29/97 | - | 2.2 | 2 | 3.5 | 9.16 | 15.04 | 7.3 | 45.8 | 0.03 | 91.9 | - | 385 |
| Benewah Lake | 3997 | ASRA | 9/29/97 | - | 2.2 | 1 | 4 | 9.09 | 15.04 | 7.31 | 45.9 | 0.03 | 91.2 | - | 384 |
| Benewah Lake | 4297 | DBAS | 10/20/97 | - | 2.2 | 9 | 0.3 | 10.61 | 10.45 | 7.15 | 49.1 | 0.03 | 94 | - | 369 |
| Benewah Lake | 4297 | DBAS | 10/20/97 | - | 2.2 | 8 | 0.6 | 10.61 | 10.48 | 7.12 | 49.3 | 0.03 | 94 | - | 372 |
| Benewah Lake | 4297 | DBAS | 10/20/97 | - | 2.2 | 7 | 1.1 | 10.63 | 10.48 | 7.11 | 49.3 | 0.03 | 94.2 | - | 372 |
| Benewah Lake | 4297 | DBAS | 10/20/97 | - | 2.2 | 6 | 1.6 | 10.63 | 10.43 | 7.11 | 49.4 | 0.03 | 94.1 | - | 372 |
| Benewah Lake | 4297 | DBAS | 10/20/97 | - | 2.2 | 5 | 2.1 | 10.6 | 10.45 | 7.08 | 49.3 | 0.03 | 93.8 | - | 372 |
| Benewah Lake | 4297 | DBAS | 10/20/97 | - | 2.2 | 4 | 2.6 | 10.55 | 10.41 | 7.04 | 49.3 | 0.03 | 93.3 | - | 373 |
| Benewah Lake | 4297 | DBAS | 10/20/97 | - | 2.2 | 3 | 3.1 | 10.17 | 10.41 | 7.02 | 49.5 | 0.03 | 90 | - | 373 |
| Benewah Lake | 4297 | DBAS | 10/20/97 | - | 2.2 | 2 | 3.6 | 9.84 | 10.4 | 6.97 | 49.8 | 0.03 | 87 | - | 375 |

| | | | | | | | | | | | | | | | |
|--------------|------|------|----------|---|-----|---|-----|------|-------|------|------|------|------|---|-----|
| Benewah Lake | 4297 | DBAS | 10/20/97 | - | 2.2 | 1 | 4.1 | 9.71 | 10.38 | 6.86 | 49.8 | 0.03 | 85.8 | - | 378 |
|--------------|------|------|----------|---|-----|---|-----|------|-------|------|------|------|------|---|-----|

| Location | Phase | Samplers | Date | Time | Secchi (m) | Sequence | Depth (m) | Dissolved Oxygen (mg/L) | Temperature (C) | pH | Conductivity (μs/cm) | TDS | Saturated Dissolved Oxygen | Stabilization Time | Redox |
|---------------|-------|----------|---------|------|------------|----------|-----------|-------------------------|-----------------|------|----------------------|------|----------------------------|--------------------|-------|
| St. Joe River | 1597 | AS SS | 4/18/97 | - | 1.1 | 2 | 0.2 | 12.89 | | 7.41 | 32.4 | 0.02 | 102.6 | - | - |
| St. Joe River | 1597 | AS SS | 4/18/97 | - | 1.1 | 1 | 5 | 13.21 | 5.54 | 7.41 | 32.3 | 0.02 | ***** | - | 356 |
| St. Joe River | 1997 | DBSS | 5/16/97 | - | 0.4 | 12 | 0.2 | 11.4 | 8.54 | 6.99 | 25.9 | 0.02 | 96.7 | - | 356 |
| St. Joe River | 1997 | DBSS | 5/16/97 | - | 0.4 | 11 | 1 | 11.41 | 8.46 | 6.96 | 25.9 | 0.02 | 96.6 | - | 364 |
| St. Joe River | 1997 | DBSS | 5/16/97 | - | 0.4 | 10 | 1.9 | 11.44 | 8.36 | 6.97 | 25.9 | 0.02 | 96.6 | - | 365 |
| St. Joe River | 1997 | DBSS | 5/16/97 | - | 0.4 | 9 | 3 | 11.44 | 8.36 | 6.96 | 25.9 | 0.02 | 96.4 | - | 365 |
| St. Joe River | 1997 | DBSS | 5/16/97 | - | 0.4 | 8 | 4.1 | 11.44 | 8.36 | 6.96 | 25.9 | 0.02 | 96.5 | - | 366 |
| St. Joe River | 1997 | DBSS | 5/16/97 | - | 0.4 | 7 | 5 | 11.44 | 8.35 | 6.95 | 25.9 | 0.02 | 96.6 | - | 367 |
| St. Joe River | 1997 | DBSS | 5/16/97 | - | 0.4 | 6 | 6 | 11.46 | 8.35 | 6.96 | 26 | 0.02 | 96.7 | - | 367 |
| St. Joe River | 1997 | DBSS | 5/16/97 | - | 0.4 | 5 | 6.9 | 11.43 | 8.38 | 6.96 | 25.9 | 0.02 | 96.5 | - | 368 |
| St. Joe River | 1997 | DBSS | 5/16/97 | - | 0.4 | 4 | 8 | 11.43 | 8.38 | 6.96 | 26 | 0.02 | 96.6 | - | 369 |
| St. Joe River | 1997 | DBSS | 5/16/97 | - | 0.4 | 3 | 9.2 | 11.39 | 8.4 | 6.97 | 26 | 0.02 | 96.3 | - | 369 |
| St. Joe River | 1997 | DBSS | 5/16/97 | - | 0.4 | 2 | 10 | 11.44 | 8.4 | 6.99 | 25.9 | 0.02 | 96.7 | - | 371 |
| St. Joe River | 1997 | DBSS | 5/16/97 | - | 0.4 | 1 | 11.2 | 11.45 | 8.4 | 6.99 | 25.9 | 0.02 | 96.8 | - | 373 |
| St. Joe River | 2197 | DBSS | 5/29/97 | - | 1.1 | 10 | 0.3 | 11.53 | 8.97 | 7.08 | 26.3 | 0.02 | 99.1 | - | 363 |
| St. Joe River | 2197 | DBSS | 5/29/97 | - | 1.1 | 9 | 0.3 | 11.53 | 8.99 | 7.09 | 26.4 | 0.02 | 99.1 | - | 362 |
| St. Joe River | 2197 | DBSS | 5/29/97 | - | 1.1 | 8 | 0.3 | 11.51 | 8.99 | 7.08 | 26.6 | 0.02 | 98.9 | - | 363 |
| St. Joe River | 2197 | DBSS | 5/29/97 | - | 1.1 | 7 | 0.3 | 11.53 | 8.97 | 7.09 | 26.1 | 0.02 | 99.1 | - | 363 |
| St. Joe River | 2197 | DBSS | 5/29/97 | - | 1.1 | 6 | 0.3 | 11.53 | 8.99 | 7.09 | 26.4 | 0.02 | 99.1 | - | 363 |
| St. Joe River | 2197 | DBSS | 5/29/97 | - | 1.1 | 5 | 9.1 | 11.53 | 8.97 | 7.06 | 26.5 | 0.02 | 98.7 | - | 366 |
| St. Joe River | 2197 | DBSS | 5/29/97 | - | 1.1 | 4 | 10 | 11.51 | 8.97 | 7.06 | 26.5 | 0.02 | 98.9 | - | 366 |
| St. Joe River | 2197 | DBSS | 5/29/97 | - | 1.1 | 3 | 10.1 | 11.51 | 8.99 | 7.07 | 26.7 | 0.02 | 98.8 | - | 366 |
| St. Joe River | 2197 | DBSS | 5/29/97 | - | 1.1 | 2 | 10.5 | 11.5 | 8.97 | 7.06 | 26.4 | 0.02 | 98.9 | - | 366 |
| St. Joe River | 2197 | DBSS | 5/29/97 | - | 1.1 | 1 | 10.6 | 11.49 | 8.97 | 7.06 | 26.6 | 0.02 | 99.1 | - | 366 |
| St. Joe River | 2397 | DBAS | 6/11/97 | - | 1.7 | 10 | 0.8 | 11.35 | 10.28 | 7.13 | 28.1 | 0.02 | 100.9 | - | 394 |
| St. Joe River | 2397 | DBAS | 6/11/97 | - | 1.7 | 9 | 0.8 | 11.33 | 10.3 | 7.13 | 28.1 | 0.02 | 100.9 | - | 394 |
| St. Joe River | 2397 | DBAS | 6/11/97 | - | 1.7 | 8 | 0.9 | 11.33 | 10.3 | 7.13 | 28.1 | 0.02 | 100.9 | - | 394 |
| St. Joe River | 2397 | DBAS | 6/11/97 | - | 1.7 | 7 | 0.9 | 11.33 | 10.3 | 7.13 | 28.1 | 0.02 | 100.9 | - | 394 |
| St. Joe River | 2397 | DBAS | 6/11/97 | - | 1.7 | 6 | 0.8 | 11.35 | 10.3 | 7.12 | 28.1 | 0.02 | 101 | - | 395 |
| St. Joe River | 2397 | DBAS | 6/11/97 | - | 1.7 | 5 | 0.9 | 11.35 | 10.3 | 7.13 | 28.1 | 0.02 | 101 | - | 395 |
| St. Joe River | 2397 | DBAS | 6/11/97 | - | 1.7 | 4 | 0.9 | 11.36 | 10.3 | 7.13 | 28.1 | 0.02 | 101.1 | - | 395 |
| St. Joe River | 2397 | DBAS | 6/11/97 | - | 1.7 | 3 | 0.9 | 11.37 | 10.28 | 7.13 | 28.1 | 0.02 | 101.1 | - | 395 |
| St. Joe River | 2397 | DBAS | 6/11/97 | - | 1.7 | 2 | 1.1 | 11.37 | 10.28 | 7.14 | 28.1 | 0.02 | 101.2 | - | 395 |
| St. Joe River | 2397 | DBAS | 6/11/97 | - | 1.7 | 1 | 0.9 | 11.38 | 10.3 | 7.11 | 28 | 0.02 | 101.3 | - | 398 |
| St. Joe River | 2597 | DBSS | 6/26/97 | - | 3.1 | 11 | 0.2 | 11.21 | 10.68 | 7.18 | 32.1 | 0.02 | 100.6 | - | 399 |

| | | | | | | | | | | | | | | | |
|---------------|------|------|---------|---|-----|----|------|-------|-------|------|------|------|-------|---|-----|
| St. Joe River | 2597 | DBSS | 6/26/97 | - | 3.1 | 10 | 1 | 11.17 | 10.66 | 7.17 | 32.1 | 0.02 | 100.1 | - | 400 |
| St. Joe River | 2597 | DBSS | 6/26/97 | - | 3.1 | 9 | 1.9 | 11.2 | 10.64 | 7.17 | 32.1 | 0.02 | 100.4 | - | 402 |
| St. Joe River | 2597 | DBSS | 6/26/97 | - | 3.1 | 8 | 2.9 | 11.17 | 10.64 | 7.17 | 32.1 | 0.02 | 100.2 | - | 402 |
| St. Joe River | 2597 | DBSS | 6/26/97 | - | 3.1 | 7 | 4 | 11.19 | 10.64 | 7.17 | 32 | 0.02 | 100.3 | - | 402 |
| St. Joe River | 2597 | DBSS | 6/26/97 | - | 3.1 | 6 | 4.9 | 11.17 | 10.64 | 7.17 | 32.1 | 0.02 | 100.2 | - | 402 |
| St. Joe River | 2597 | DBSS | 6/26/97 | - | 3.1 | 5 | 6.1 | 11.19 | 10.64 | 7.17 | 32 | 0.02 | 100.3 | - | 402 |
| St. Joe River | 2597 | DBSS | 6/26/97 | - | 3.1 | 4 | 7.1 | 11.18 | 10.61 | 7.18 | 32 | 0.02 | 100.1 | - | 401 |
| St. Joe River | 2597 | DBSS | 6/26/97 | - | 3.1 | 3 | 8.1 | 11.18 | 10.62 | 7.17 | 32.1 | 0.02 | 100 | - | 401 |
| St. Joe River | 2597 | DBSS | 6/26/97 | - | 3.1 | 2 | 9 | 11.18 | 10.62 | 7.18 | 32 | 0.02 | 100.2 | - | 400 |
| St. Joe River | 2597 | DBSS | 6/26/97 | - | 3.1 | 1 | 11.2 | 11.2 | 10.67 | 7.19 | 32 | 0.02 | 100.4 | - | 400 |
| St. Joe River | 2797 | DBSS | 7/8/97 | - | 2.5 | 13 | 0.4 | 9.9 | 15.06 | 7.14 | 34.6 | 0.02 | 97.6 | - | 414 |
| St. Joe River | 2797 | DBSS | 7/8/97 | - | 2.5 | 12 | 1.3 | 9.89 | 15.04 | 7.16 | 34.6 | 0.02 | 97.5 | - | 414 |
| St. Joe River | 2797 | DBSS | 7/8/97 | - | 2.5 | 11 | 2.4 | 9.9 | 15.07 | 7.15 | 34.6 | 0.02 | 97.6 | - | 415 |
| St. Joe River | 2797 | DBSS | 7/8/97 | - | 2.5 | 10 | 3.5 | 9.92 | 15.02 | 7.15 | 34.6 | 0.02 | 97.7 | - | 415 |
| St. Joe River | 2797 | DBSS | 7/8/97 | - | 2.5 | 9 | 4.4 | 9.9 | 15.09 | 7.15 | 34.6 | 0.02 | 97.8 | - | 415 |
| St. Joe River | 2797 | DBSS | 7/8/97 | - | 2.5 | 8 | 5.4 | 9.9 | 15.06 | 7.15 | 34.6 | 0.02 | 97.7 | - | 416 |
| St. Joe River | 2797 | DBSS | 7/8/97 | - | 2.5 | 7 | 6.4 | 9.89 | 15.02 | 7.15 | 34.6 | 0.02 | 97.5 | - | 416 |
| St. Joe River | 2797 | DBSS | 7/8/97 | - | 2.5 | 6 | 7.4 | 9.88 | 15.02 | 7.16 | 34.6 | 0.02 | 97.4 | - | 416 |
| St. Joe River | 2797 | DBSS | 7/8/97 | - | 2.5 | 5 | 8.3 | 9.9 | 15.02 | 7.16 | 34.6 | 0.02 | 97.6 | - | 416 |
| St. Joe River | 2797 | DBSS | 7/8/97 | - | 2.5 | 4 | 9.4 | 9.89 | 15.06 | 7.16 | 34.6 | 0.02 | 97.5 | - | 416 |
| St. Joe River | 2797 | DBSS | 7/8/97 | - | 2.5 | 3 | 10.4 | 9.91 | 15.06 | 7.18 | 34.6 | 0.02 | 97.7 | - | 416 |
| St. Joe River | 2797 | DBSS | 7/8/97 | - | 2.5 | 2 | 11.4 | 9.93 | 15.06 | 7.19 | 34.6 | 0.02 | 98 | - | 416 |
| St. Joe River | 2797 | DBSS | 7/8/97 | - | 2.5 | 1 | 12.3 | 10.07 | 15.07 | 7.22 | 34.6 | 0.02 | 99.3 | - | 416 |
| St. Joe River | 2997 | SSJD | 7/24/97 | - | 3 | 11 | 0.3 | 9.37 | 18.94 | 7.2 | 38.3 | 0.02 | ***** | - | 430 |
| St. Joe River | 2997 | SSJD | 7/24/97 | - | 3 | 10 | 1.3 | 9.42 | 18.47 | 7.2 | 38.2 | 0.02 | 99.9 | - | 431 |
| St. Joe River | 2997 | SSJD | 7/24/97 | - | 3 | 9 | 2.3 | 9.4 | 18.22 | 7.21 | 38.1 | 0.02 | 99.2 | - | 432 |
| St. Joe River | 2997 | SSJD | 7/24/97 | - | 3 | 8 | 3.3 | 9.42 | 18.15 | 7.21 | 38.2 | 0.02 | 99.2 | - | 432 |
| St. Joe River | 2997 | SSJD | 7/24/97 | - | 3 | 7 | 4.3 | 9.43 | 18.22 | 7.21 | 38.2 | 0.02 | 99.5 | - | 433 |
| St. Joe River | 2997 | SSJD | 7/24/97 | - | 3 | 6 | 5.3 | 9.41 | 18.22 | 7.2 | 38.1 | 0.02 | 99.3 | - | 434 |
| St. Joe River | 2997 | SSJD | 7/24/97 | - | 3 | 5 | 6.3 | 9.4 | 18.1 | 7.21 | 38.1 | 0.02 | 99 | - | 433 |
| St. Joe River | 2997 | SSJD | 7/24/97 | - | 3 | 4 | 7.3 | 9.41 | 18.22 | 7.21 | 38.1 | 0.02 | 99.3 | - | 434 |
| St. Joe River | 2997 | SSJD | 7/24/97 | - | 3 | 3 | 8.3 | 9.4 | 18.18 | 7.22 | 38.1 | 0.02 | 99.1 | - | 434 |
| St. Joe River | 2997 | SSJD | 7/24/97 | - | 3 | 2 | 9.3 | 9.43 | 18.1 | 7.25 | 38.1 | 0.02 | 99.3 | - | 434 |
| St. Joe River | 2997 | SSJD | 7/24/97 | - | 3 | 1 | 10.3 | 9.47 | 18.08 | 7.29 | 38.1 | 0.02 | 99.7 | - | 434 |
| St. Joe River | 3197 | DBSS | 8/5/97 | - | 3 | 13 | 0.3 | 9.07 | 23.01 | 7.3 | 44.8 | 0.03 | 104.4 | - | 351 |
| St. Joe River | 3197 | DBSS | 8/5/97 | - | 3 | 12 | 1.5 | 9.11 | 21.37 | 7.26 | 44.5 | 0.03 | 101.5 | - | 354 |
| St. Joe River | 3197 | DBSS | 8/5/97 | - | 3 | 11 | 2.4 | 9 | 21.28 | 7.25 | 44.7 | 0.03 | 100.2 | - | 355 |
| St. Joe River | 3197 | DBSS | 8/5/97 | - | 3 | 10 | 3.4 | 8.91 | 20.55 | 7.22 | 44.3 | 0.03 | 97.8 | - | 356 |
| St. Joe River | 3197 | DBSS | 8/5/97 | - | 3 | 9 | 4.5 | 8.64 | 19.94 | 7.19 | 44 | 0.03 | 93.7 | - | 357 |
| St. Joe River | 3197 | DBSS | 8/5/97 | - | 3 | 8 | 5.5 | 8.62 | 19.71 | 7.19 | 44.1 | 0.03 | 93.1 | - | 356 |
| St. Joe River | 3197 | DBSS | 8/5/97 | - | 3 | 7 | 6.5 | 8.54 | 19.57 | 7.19 | 43.7 | 0.03 | 92 | - | 356 |

| | | | | | | | | | | | | | | | |
|---------------|------|------|---------|---|-----|----|------|------|-------|------|------|------|-------|---|-----|
| St. Joe River | 3197 | DBSS | 8/5/97 | - | 3 | 6 | 7.5 | 8.51 | 19.45 | 7.19 | 43.7 | 0.03 | 91.3 | - | 356 |
| St. Joe River | 3197 | DBSS | 8/5/97 | - | 3 | 5 | 8.5 | 8.46 | 19.33 | 7.19 | 43.8 | 0.03 | 90.6 | - | 356 |
| St. Joe River | 3197 | DBSS | 8/5/97 | - | 3 | 4 | 9.5 | 8.44 | 19.26 | 7.19 | 43.6 | 0.03 | 90.3 | - | 356 |
| St. Joe River | 3197 | DBSS | 8/5/97 | - | 3 | 3 | 10.5 | 8.43 | 19.25 | 7.19 | 43.7 | 0.03 | 90.2 | - | 356 |
| St. Joe River | 3197 | DBSS | 8/5/97 | - | 3 | 2 | 11.5 | 8.4 | 19.25 | 7.19 | 43.7 | 0.03 | 89.8 | - | 355 |
| St. Joe River | 3197 | DBSS | 8/5/97 | - | 3 | 1 | 12.1 | 8.4 | 19.3 | 7.2 | 43.6 | 0.03 | 89.9 | - | 354 |
| St. Joe River | 3497 | DBSS | 8/27/97 | - | 4 | 14 | 0.2 | 8.47 | 20.77 | 7.23 | 55.6 | 0.04 | 94.3 | - | 317 |
| St. Joe River | 3497 | DBSS | 8/27/97 | - | 4 | 13 | 0.8 | 8.49 | 20.27 | 7.25 | 55.8 | 0.04 | 93.4 | - | 316 |
| St. Joe River | 3497 | DBSS | 8/27/97 | - | 4 | 12 | 1.7 | 8.47 | 20.2 | 7.24 | 55.7 | 0.04 | 93.1 | - | 317 |
| St. Joe River | 3497 | DBSS | 8/27/97 | - | 4 | 11 | 2.7 | 8.49 | 20.2 | 7.25 | 55.6 | 0.04 | 93.2 | - | 316 |
| St. Joe River | 3497 | DBSS | 8/27/97 | - | 4 | 10 | 3.7 | 8.49 | 20.2 | 7.24 | 55.7 | 0.04 | 93.3 | - | 316 |
| St. Joe River | 3497 | DBSS | 8/27/97 | - | 4 | 9 | 4.6 | 8.48 | 20.15 | 7.24 | 55.6 | 0.04 | 93 | - | 316 |
| St. Joe River | 3497 | DBSS | 8/27/97 | - | 4 | 8 | 5.6 | 8.46 | 20.09 | 7.24 | 55.6 | 0.04 | 92.9 | - | 316 |
| St. Joe River | 3497 | DBSS | 8/27/97 | - | 4 | 7 | 6.4 | 8.41 | 20.08 | 7.23 | 55.5 | 0.04 | 92.3 | - | 316 |
| St. Joe River | 3497 | DBSS | 8/27/97 | - | 4 | 6 | 7.5 | 8.4 | 20.02 | 7.23 | 55.6 | 0.04 | 92 | - | 316 |
| St. Joe River | 3497 | DBSS | 8/27/97 | - | 4 | 5 | 8.5 | 8.39 | 20.02 | 7.24 | 55.5 | 0.04 | 91.9 | - | 315 |
| St. Joe River | 3497 | DBSS | 8/27/97 | - | 4 | 4 | 9.6 | 8.38 | 20.01 | 7.24 | 55.6 | 0.04 | 91.7 | - | 315 |
| St. Joe River | 3497 | DBSS | 8/27/97 | - | 4 | 3 | 10.4 | 8.38 | 20.01 | 7.25 | 55.5 | 0.04 | 91.7 | - | 314 |
| St. Joe River | 3497 | DBSS | 8/27/97 | - | 4 | 2 | 11.5 | 8.41 | 20.01 | 7.26 | 55.7 | 0.04 | 92 | - | 313 |
| St. Joe River | 3497 | DBSS | 8/27/97 | - | 4 | 1 | 12.7 | 8.43 | 20.04 | 7.27 | 55.6 | 0.04 | 92.3 | - | 313 |
| St. Joe River | 3797 | DBAS | 9/16/97 | - | 3.5 | 13 | 0.2 | 8.51 | 17.45 | 7.2 | 54.9 | 0.04 | 88.7 | - | 308 |
| St. Joe River | 3797 | DBAS | 9/16/97 | - | 3.5 | 12 | 0.9 | 8.48 | 17.51 | 7.21 | 55.2 | 0.04 | 88.5 | - | 307 |
| St. Joe River | 3797 | DBAS | 9/16/97 | - | 3.5 | 11 | 1.9 | 8.47 | 17.47 | 7.2 | 55.1 | 0.04 | 88.3 | - | 308 |
| St. Joe River | 3797 | DBAS | 9/16/97 | - | 3.5 | 10 | 2.9 | 8.47 | 17.45 | 7.19 | 55.2 | 0.04 | 88.3 | - | 307 |
| St. Joe River | 3797 | DBAS | 9/16/97 | - | 3.5 | 9 | 3.9 | 8.48 | 17.44 | 7.21 | 55.1 | 0.04 | 88.3 | - | 305 |
| St. Joe River | 3797 | DBAS | 9/16/97 | - | 3.5 | 8 | 4.9 | 8.49 | 17.43 | 7.2 | 55.1 | 0.04 | 88.5 | - | 305 |
| St. Joe River | 3797 | DBAS | 9/16/97 | - | 3.5 | 7 | 5.9 | 8.51 | 17.44 | 7.2 | 55.3 | 0.04 | 88.6 | - | 305 |
| St. Joe River | 3797 | DBAS | 9/16/97 | - | 3.5 | 6 | 6.9 | 8.49 | 17.42 | 7.2 | 55.2 | 0.04 | 88.6 | - | 303 |
| St. Joe River | 3797 | DBAS | 9/16/97 | - | 3.5 | 5 | 7.9 | 8.48 | 17.42 | 7.21 | 55.2 | 0.04 | 88.3 | - | 303 |
| St. Joe River | 3797 | DBAS | 9/16/97 | - | 3.5 | 4 | 8.9 | 8.51 | 17.42 | 7.21 | 55.3 | 0.04 | 88.6 | - | 302 |
| St. Joe River | 3797 | DBAS | 9/16/97 | - | 3.5 | 3 | 9.9 | 8.51 | 17.42 | 7.21 | 55.2 | 0.04 | 88.6 | - | 301 |
| St. Joe River | 3797 | DBAS | 9/16/97 | - | 3.5 | 2 | 10.9 | 8.53 | 17.44 | 7.22 | 55.2 | 0.04 | 88.8 | - | 300 |
| St. Joe River | 3797 | DBAS | 9/16/97 | - | 3.5 | 1 | 11.9 | 8.54 | 17.41 | 7.23 | 55.2 | 0.04 | 89 | - | 299 |
| St. Joe River | 3997 | ASRA | 9/29/97 | - | 2.7 | 11 | 0.2 | 9.83 | 16.29 | 7.24 | 52.9 | 0.03 | 101.3 | - | 397 |
| St. Joe River | 3997 | ASRA | 9/29/97 | - | 2.7 | 10 | 1.6 | 9.77 | 14.01 | 7.22 | 52.5 | 0.03 | 95.8 | - | 400 |
| St. Joe River | 3997 | ASRA | 9/29/97 | - | 2.7 | 9 | 2.6 | 9.71 | 13.91 | 7.22 | 52.4 | 0.03 | 95 | - | 400 |
| St. Joe River | 3997 | ASRA | 9/29/97 | - | 2.7 | 8 | 3.6 | 9.72 | 13.88 | 7.23 | 52.5 | 0.03 | 95.1 | - | 400 |
| St. Joe River | 3997 | ASRA | 9/29/97 | - | 2.7 | 7 | 4.6 | 9.66 | 13.86 | 7.23 | 52.4 | 0.03 | 94.4 | - | 399 |
| St. Joe River | 3997 | ASRA | 9/29/97 | - | 2.7 | 6 | 5.6 | 9.47 | 13.86 | 7.24 | 52.5 | 0.03 | 92.6 | - | 399 |
| St. Joe River | 3997 | ASRA | 9/29/97 | - | 2.7 | 5 | 6.6 | 9.44 | 13.86 | 7.25 | 52.3 | 0.03 | 92.3 | - | 399 |
| St. Joe River | 3997 | ASRA | 9/29/97 | - | 2.7 | 4 | 7.6 | 9.46 | 13.83 | 7.25 | 52.3 | 0.03 | 92.3 | - | 398 |

| | | | | | | | | | | | | | | | |
|---------------|------|------|----------|---|-----|----|------|-------|-------|------|------|------|------|-------|-----|
| St. Joe River | 3997 | ASRA | 9/29/97 | - | 2.7 | 3 | 8.6 | 9.43 | 13.88 | 7.27 | 52.2 | 0.03 | 92.1 | - | 398 |
| St. Joe River | 3997 | ASRA | 9/29/97 | - | 2.7 | 2 | 9.6 | 9.55 | 13.83 | 7.27 | 52.3 | 0.03 | 93.3 | - | 398 |
| St. Joe River | 3997 | ASRA | 9/29/97 | - | 2.7 | 1 | 10.6 | 9.5 | 13.83 | 7.29 | 52.3 | 0.03 | 92.7 | - | 397 |
| St. Joe River | 4297 | DBAS | 10/20/97 | - | 2.1 | 11 | 0.3 | 10.77 | 9.06 | 6.97 | 56.7 | 0.04 | 92.3 | - | 399 |
| St. Joe River | 4297 | DBAS | 10/20/97 | - | 2.1 | 10 | 1.3 | 10.75 | 9.07 | 6.95 | 56.7 | 0.04 | 92.1 | - | 402 |
| St. Joe River | 4297 | DBAS | 10/20/97 | - | 2.1 | 9 | 2.3 | 10.76 | 9.06 | 6.93 | 56.7 | 0.04 | 92.1 | - | 403 |
| St. Joe River | 4297 | DBAS | 10/20/97 | - | 2.1 | 8 | 3.3 | 10.76 | 9.06 | 6.91 | 56.7 | 0.04 | 92.1 | - | 404 |
| St. Joe River | 4297 | DBAS | 10/20/97 | - | 2.1 | 7 | 4.3 | 10.74 | 9.06 | 6.91 | 56.6 | 0.04 | 92 | - | 405 |
| St. Joe River | 4297 | DBAS | 10/20/97 | - | 2.1 | 6 | 5.3 | 10.76 | 9.06 | 6.88 | 56.6 | 0.04 | 92.1 | - | 406 |
| St. Joe River | 4297 | DBAS | 10/20/97 | - | 2.1 | 5 | 6.3 | 10.76 | 9.04 | 6.87 | 56.7 | 0.04 | 92.2 | - | 406 |
| St. Joe River | 4297 | DBAS | 10/20/97 | - | 2.1 | 4 | 7.3 | 10.78 | 9.02 | 6.85 | 56.6 | 0.04 | 92.3 | - | 407 |
| St. Joe River | 4297 | DBAS | 10/20/97 | - | 2.1 | 3 | 8.3 | 10.78 | 9.04 | 6.83 | 56.6 | 0.04 | 92.3 | - | 408 |
| St. Joe River | 4297 | DBAS | 10/20/97 | - | 2.1 | 2 | 9.3 | 10.8 | 9.02 | 6.81 | 56.5 | 0.04 | 92.4 | - | 408 |
| St. Joe River | 4297 | DBAS | 10/20/97 | - | 2.1 | 1 | 10.3 | 10.83 | 9.04 | 6.76 | 56.7 | 0.04 | 92.8 | - | 411 |
| St. Joe River | 4497 | DBAS | 11/3/97 | - | 1 | 11 | 0.4 | 11.9 | 7.03 | 6.63 | 39.7 | 0.03 | 96.8 | ***** | 436 |
| St. Joe River | 4497 | DBAS | 11/3/97 | - | 1 | 10 | 1.8 | 11.93 | 7.02 | 6.61 | 39.9 | 0.03 | 96.9 | ***** | 438 |
| St. Joe River | 4497 | DBAS | 11/3/97 | - | 1 | 9 | 2.8 | 11.9 | 7.03 | 6.63 | 39.8 | 0.03 | 96.8 | ***** | 438 |
| St. Joe River | 4497 | DBAS | 11/3/97 | - | 1 | 8 | 3.8 | 11.92 | 7.03 | 6.61 | 39.8 | 0.03 | 96.9 | ***** | 438 |
| St. Joe River | 4497 | DBAS | 11/3/97 | - | 1 | 7 | 4.8 | 11.89 | 7.04 | 6.61 | 39.9 | 0.03 | 96.6 | ***** | 437 |
| St. Joe River | 4497 | DBAS | 11/3/97 | - | 1 | 6 | 5.8 | 11.93 | 7.06 | 6.61 | 39.8 | 0.03 | 96.9 | ***** | 436 |
| St. Joe River | 4497 | DBAS | 11/3/97 | - | 1 | 5 | 6.8 | 11.93 | 7.06 | 6.61 | 39.9 | 0.03 | 96.9 | ***** | 436 |
| St. Joe River | 4497 | DBAS | 11/3/97 | - | 1 | 4 | 7.8 | 11.95 | 7.07 | 6.61 | 40.2 | 0.03 | 97.1 | ***** | 438 |
| St. Joe River | 4497 | DBAS | 11/3/97 | - | 1 | 3 | 8.8 | 11.96 | 7.08 | 6.61 | 39.9 | 0.03 | 97.3 | ***** | 438 |
| St. Joe River | 4497 | DBAS | 11/3/97 | - | 1 | 2 | 9.8 | 12 | 7.08 | 6.61 | 39.9 | 0.03 | 97.6 | ***** | 438 |
| St. Joe River | 4497 | DBAS | 11/3/97 | - | 1 | 1 | 10.7 | 11.99 | 7.09 | 6.63 | 39.9 | 0.03 | 97.5 | ***** | 441 |

Appendix A.2 Vertical hydrolab profiles for all thirteen station on Coeur d'Alene Lake, 1998.

| Location | Phase | Samplers | Date | Time | Secchi (m) | Sequence | Depth (m) | Dissolved Oxygen (mg/L) | Temperature (C) | pH | Conductivity (µs/cm) | TDS | Saturated Dissolved Oxygen | Stabilization Time | Redox |
|--------------|-------|----------|---------|----------|---------------|----------|--------------|-------------------------------|--------------------|------|-------------------------|------|----------------------------------|-----------------------|-------|
| Rockford Bay | 1098 | DBRP | 3/13/98 | 10:09:11 | 3 | 13 | 0.3 | 13.29 | 4.16 | 6.94 | 49.5 | 0.03 | 101 | 59 | 405 |
| Rockford Bay | 1098 | DBRP | 3/13/98 | 10:09:11 | 3 | 12 | 1.2 | 13.33 | 4.03 | 6.98 | 49.5 | 0.03 | 101 | 43 | 403 |
| Rockford Bay | 1098 | DBRP | 3/13/98 | 10:09:11 | 3 | 11 | 2.2 | 13.39 | 3.91 | 6.98 | 49.6 | 0.03 | 101.1 | 113 | 403 |
| Rockford Bay | 1098 | DBRP | 3/13/98 | 10:09:11 | 3 | 10 | 3.2 | 13.38 | 3.91 | 6.91 | 49.7 | 0.03 | 101 | 101 | 407 |
| Rockford Bay | 1098 | DBRP | 3/13/98 | 10:09:11 | 3 | 9 | 4.2 | 13.43 | 3.88 | 6.91 | 49.8 | 0.03 | 101.3 | 149 | 406 |
| Rockford Bay | 1098 | DBRP | 3/13/98 | 10:09:11 | 3 | 8 | 5.2 | 13.5 | 3.88 | 6.9 | 49.8 | 0.03 | 101.8 | 59 | 405 |
| Rockford Bay | 1098 | DBRP | 3/13/98 | 10:09:11 | 3 | 7 | 6.2 | 13.52 | 3.91 | 6.86 | 49.8 | 0.03 | 102.1 | 131 | 406 |
| Rockford Bay | 1098 | DBRP | 3/13/98 | 10:09:11 | 3 | 6 | 7.2 | 13.53 | 3.94 | 6.81 | 49.7 | 0.03 | 102.2 | 51 | 406 |
| Rockford Bay | 1098 | DBRP | 3/13/98 | 10:09:11 | 3 | 5 | 8.2 | 13.54 | 3.98 | 6.82 | 49.9 | 0.03 | 102.4 | 154 | 405 |
| Rockford Bay | 1098 | DBRP | 3/13/98 | 10:09:11 | 3 | 4 | 9.2 | 13.5 | 3.96 | 6.72 | 49.6 | 0.03 | 102.1 | 103 | 407 |
| Rockford Bay | 1098 | DBRP | 3/13/98 | 10:09:11 | 3 | 3 | 10.2 | 13.49 | 4.01 | 6.69 | 49.8 | 0.03 | 102.1 | 158 | 407 |
| Rockford Bay | 1098 | DBRP | 3/13/98 | 10:09:11 | 3 | 2 | 11.2 | 13.39 | 4.26 | 6.58 | 49.7 | 0.03 | 102 | 201 | 408 |
| Rockford Bay | 1098 | DBRP | 3/13/98 | 10:09:11 | 3 | 1 | 12.2 | 13.08 | 4.54 | 6.42 | 50.9 | 0.03 | 100.4 | 215 | 409 |
| Rockford Bay | 1498 | DBAS | 4/8/98 | 9:40:15 | 2.9 | 14 | 0.3 | 12.86 | 5.87 | 7.09 | 51.3 | 0.03 | 103 | 124 | 441 |
| Rockford Bay | 1498 | DBAS | 4/8/98 | 9:40:15 | 2.9 | 13 | 1.3 | 12.9 | 5.77 | 7.05 | 51.5 | 0.03 | 103.1 | 128 | 444 |
| Rockford Bay | 1498 | DBAS | 4/8/98 | 9:40:15 | 2.9 | 12 | 2.3 | 12.88 | 5.6 | 7.06 | 51.2 | 0.03 | 102.5 | 53 | 444 |
| Rockford Bay | 1498 | DBAS | 4/8/98 | 9:40:15 | 2.9 | 11 | 3.3 | 12.82 | 5.36 | 6.97 | 51 | 0.03 | 101.4 | 121 | 448 |
| Rockford Bay | 1498 | DBAS | 4/8/98 | 9:40:15 | 2.9 | 10 | 4.3 | 12.79 | 5.41 | 6.95 | 51.2 | 0.03 | 101.3 | 111 | 449 |
| Rockford Bay | 1498 | DBAS | 4/8/98 | 9:40:15 | 2.9 | 9 | 5.2 | 12.76 | 5.14 | 6.96 | 51.1 | 0.03 | 100.3 | 141 | 447 |
| Rockford Bay | 1498 | DBAS | 4/8/98 | 9:40:15 | 2.9 | 8 | 6.2 | 12.75 | 5.03 | 6.97 | 51.7 | 0.03 | 100 | 114 | 446 |
| Rockford Bay | 1498 | DBAS | 4/8/98 | 9:40:15 | 2.9 | 7 | 7.1 | 12.75 | 5.03 | 6.92 | 51.5 | 0.03 | 100 | 107 | 448 |
| Rockford Bay | 1498 | DBAS | 4/8/98 | 9:40:15 | 2.9 | 6 | 8.1 | 12.71 | 4.99 | 6.92 | 51.7 | 0.03 | 99.5 | 120 | 447 |
| Rockford Bay | 1498 | DBAS | 4/8/98 | 9:40:15 | 2.9 | 5 | 9.2 | 12.68 | 4.96 | 6.91 | 51.8 | 0.03 | 99.2 | 104 | 447 |
| Rockford Bay | 1498 | DBAS | 4/8/98 | 9:40:15 | 2.9 | 4 | 10.2 | 12.49 | 4.88 | 6.87 | 52.2 | 0.03 | 97.6 | 137 | 447 |
| Rockford Bay | 1498 | DBAS | 4/8/98 | 9:40:15 | 2.9 | 3 | 11.3 | 12.43 | 4.79 | 6.85 | 52.2 | 0.03 | 96.9 | 110 | 447 |
| Rockford Bay | 1498 | DBAS | 4/8/98 | 9:40:15 | 2.9 | 2 | 12.3 | 12.3 | 4.81 | 6.86 | 52.5 | 0.03 | 95.9 | 242 | 446 |
| Rockford Bay | 1498 | DBAS | 4/8/98 | 9:40:15 | 2.9 | 1 | 13.2 | 11.97 | 4.96 | 6.79 | 53.9 | 0.03 | 93.7 | 433 | 447 |
| Rockford Bay | 1698 | DBASRP | 4/23/98 | 13:24:29 | 5 | 13 | 0.1 | 11.7 | 15 | 7 | 47.4 | 0.03 | 114.2 | 129 | 390 |
| Rockford Bay | 1698 | DBASRP | 4/23/98 | 13:24:29 | 5 | 12 | 1.6 | 12.33 | 10.3 | 7.17 | 45.9 | 0.03 | 108.3 | 40 | 383 |
| Rockford Bay | 1698 | DBASRP | 4/23/98 | 13:24:29 | 5 | 11 | 2.6 | 12.33 | 9.86 | 7.15 | 46.5 | 0.03 | 107.1 | 34 | 383 |
| Rockford Bay | 1698 | DBASRP | 4/23/98 | 13:24:29 | 5 | 10 | 3.6 | 12.33 | 9.2 | 7.11 | 47.1 | 0.03 | 105.4 | 40 | 385 |
| Rockford Bay | 1698 | DBASRP | 4/23/98 | 13:24:29 | 5 | 9 | 4.5 | 12.33 | 8.79 | 7.05 | 47.1 | 0.03 | 104.4 | 56 | 387 |
| Rockford Bay | 1698 | DBASRP | 4/23/98 | 13:24:29 | 5 | 8 | 5.6 | 12.36 | 8.3 | 7.04 | 47.5 | 0.03 | 103.4 | 34 | 387 |
| Rockford Bay | 1698 | DBASRP | 4/23/98 | 13:24:29 | 5 | 7 | 6.6 | 12.36 | 8.25 | 7.03 | 47.7 | 0.03 | 103.3 | 38 | 386 |
| Rockford Bay | 1698 | DBASRP | 4/23/98 | 13:24:29 | 5 | 6 | 7.4 | 12.36 | 7.53 | 6.98 | 47.9 | 0.03 | 101.4 | 57 | 388 |
| Rockford Bay | 1698 | DBASRP | 4/23/98 | 13:24:29 | 5 | 5 | 8.5 | 12.36 | 7.4 | 6.99 | 48.3 | 0.03 | 101.1 | 44 | 387 |
| Rockford Bay | 1698 | DBASRP | 4/23/98 | 13:24:29 | 5 | 4 | 9.4 | 12.36 | 6.94 | 6.91 | 48.4 | 0.03 | 100 | 59 | 391 |

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|--------------|------|--------|---------|----------|-----|----|------|-------|------|------|------|------|-------|-----|-----|
| Rockford Bay | 1698 | DBASRP | 4/23/98 | 13:24:29 | 5 | 3 | 10.6 | 12.36 | 6.82 | 6.94 | 48.6 | 0.03 | 99.7 | 56 | 388 |
| Rockford Bay | 1698 | DBASRP | 4/23/98 | 13:24:29 | 5 | 2 | 11.6 | 12.29 | 6.69 | 6.89 | 48.4 | 0.03 | 98.8 | 132 | 390 |
| Rockford Bay | 1698 | DBASRP | 4/23/98 | 13:24:29 | 5 | 1 | 12.5 | 12.4 | 6.44 | 6.87 | 48.8 | 0.03 | 99.1 | 157 | 390 |
| | | | | | | | | | | | | | | | |
| Rockford Bay | 2198 | ASJLDT | 5/26/98 | 11:37:29 | 3.6 | 14 | 0.3 | 11.57 | 10.9 | 7.25 | 42.3 | 0.03 | 105.6 | 119 | 399 |
| Rockford Bay | 2198 | ASJLDT | 5/26/98 | 11:37:29 | 3.6 | 13 | 1.6 | 11.6 | 10.8 | 7.23 | 42.2 | 0.03 | 105.8 | 101 | 401 |
| Rockford Bay | 2198 | ASJLDT | 5/26/98 | 11:37:29 | 3.6 | 12 | 2.6 | 11.6 | 10.7 | 7.21 | 42.2 | 0.03 | 105.5 | 135 | 401 |
| Rockford Bay | 2198 | ASJLDT | 5/26/98 | 11:37:29 | 3.6 | 11 | 3.6 | 11.66 | 10.5 | 7.22 | 42.5 | 0.03 | 105.5 | 327 | 399 |
| Rockford Bay | 2198 | ASJLDT | 5/26/98 | 11:37:29 | 3.6 | 10 | 4.6 | 11.61 | 10.3 | 7.23 | 41.9 | 0.03 | 104.5 | 118 | 395 |
| Rockford Bay | 2198 | ASJLDT | 5/26/98 | 11:37:29 | 3.6 | 9 | 5.6 | 11.65 | 10.2 | 7.12 | 43.1 | 0.03 | 104.8 | 120 | 398 |
| Rockford Bay | 2198 | ASJLDT | 5/26/98 | 11:37:29 | 3.6 | 8 | 6.6 | 11.49 | 10 | 7.08 | 43.2 | 0.03 | 102.8 | 301 | 398 |
| Rockford Bay | 2198 | ASJLDT | 5/26/98 | 11:37:29 | 3.6 | 7 | 7.6 | 11.43 | 9.74 | 7.08 | 42.8 | 0.03 | 101.6 | 112 | 394 |
| Rockford Bay | 2198 | ASJLDT | 5/26/98 | 11:37:29 | 3.6 | 6 | 8.6 | 11.49 | 9.51 | 7.02 | 43.4 | 0.03 | 101.6 | 133 | 395 |
| Rockford Bay | 2198 | ASJLDT | 5/26/98 | 11:37:29 | 3.6 | 5 | 9.6 | 11.39 | 9.02 | 6.96 | 44.2 | 0.03 | 99.5 | 147 | 395 |
| Rockford Bay | 2198 | ASJLDT | 5/26/98 | 11:37:29 | 3.6 | 4 | 10.6 | 11.39 | 8.92 | 7 | 44.4 | 0.03 | 99.3 | 235 | 390 |
| Rockford Bay | 2198 | ASJLDT | 5/26/98 | 11:37:29 | 3.6 | 3 | 11.6 | 11.42 | 8.6 | 6.89 | 44.8 | 0.03 | 98.8 | 118 | 391 |
| Rockford Bay | 2198 | ASJLDT | 5/26/98 | 11:37:29 | 3.6 | 2 | 12.6 | 11.42 | 8.07 | 6.88 | 45.6 | 0.03 | 97.5 | 57 | 388 |
| Rockford Bay | 2198 | ASJLDT | 5/26/98 | 11:37:29 | 3.6 | 1 | 13.6 | 11.4 | 7.86 | 6.89 | 46.2 | 0.03 | 96.8 | 318 | 386 |
| | | | | | | | | | | | | | | | |
| Rockford Bay | 2398 | DTJLAS | 6/8/98 | 10:30 | 4 | 14 | 0.3 | 10.87 | 16.9 | 7.63 | 44.2 | 0.03 | 112.2 | 54 | 442 |
| Rockford Bay | 2398 | DTJLAS | 6/8/98 | 10:30 | 4 | 13 | 1.4 | 10.89 | 16.7 | 7.62 | 44.2 | 0.03 | 112.1 | 52 | 445 |
| Rockford Bay | 2398 | DTJLAS | 6/8/98 | 10:30 | 4 | 12 | 2.4 | 10.92 | 16.4 | 7.61 | 44.3 | 0.03 | 111.7 | 56 | 447 |
| Rockford Bay | 2398 | DTJLAS | 6/8/98 | 10:30 | 4 | 11 | 3.4 | 11 | 16.1 | 7.6 | 44.1 | 0.03 | 111.8 | 53 | 450 |
| Rockford Bay | 2398 | DTJLAS | 6/8/98 | 10:30 | 4 | 10 | 4.4 | 10.98 | 16 | 7.57 | 43.6 | 0.03 | 111.2 | 125 | 451 |
| Rockford Bay | 2398 | DTJLAS | 6/8/98 | 10:30 | 4 | 9 | 5.4 | 11.04 | 15.8 | 7.55 | 43.7 | 0.03 | 111.5 | 43 | 454 |
| Rockford Bay | 2398 | DTJLAS | 6/8/98 | 10:30 | 4 | 8 | 6.4 | 11.1 | 15.7 | 7.54 | 44.3 | 0.03 | 111.9 | 128 | 455 |
| Rockford Bay | 2398 | DTJLAS | 6/8/98 | 10:30 | 4 | 7 | 7.4 | 11.11 | 15.6 | 7.51 | 44.3 | 0.03 | 111.7 | 111 | 458 |
| Rockford Bay | 2398 | DTJLAS | 6/8/98 | 10:30 | 4 | 6 | 8.4 | 11.2 | 15.4 | 7.5 | 44.1 | 0.03 | 112 | 52 | 460 |
| Rockford Bay | 2398 | DTJLAS | 6/8/98 | 10:30 | 4 | 5 | 9.4 | 11.3 | 15.2 | 7.49 | 44.3 | 0.03 | 112.7 | 57 | 462 |
| Rockford Bay | 2398 | DTJLAS | 6/8/98 | 10:30 | 4 | 4 | 10.4 | 11.47 | 14.7 | 7.46 | 44.8 | 0.03 | 113.2 | 46 | 464 |
| Rockford Bay | 2398 | DTJLAS | 6/8/98 | 10:30 | 4 | 3 | 11.4 | 11.53 | 13.7 | 7.37 | 44.3 | 0.03 | 111.3 | 101 | 468 |
| Rockford Bay | 2398 | DTJLAS | 6/8/98 | 10:30 | 4 | 2 | 12.4 | 11.13 | 12.9 | 7.16 | 44.1 | 0.03 | 105.5 | 116 | 475 |
| Rockford Bay | 2398 | DTJLAS | 6/8/98 | 10:30 | 4 | 1 | 13.4 | 11 | 11.9 | 7.02 | 43.5 | 0.03 | 101.9 | 231 | 483 |
| | | | | | | | | | | | | | | | |
| Rockford Bay | 2598 | DTASBH | 6/24/98 | 11:01 | 3.3 | 14 | 0.2 | 10.9 | 17 | 7.89 | 42.7 | 0.03 | 113.5 | 32 | 437 |
| Rockford Bay | 2598 | DTASBH | 6/24/98 | 11:01 | 3.3 | 13 | 1.6 | 11.09 | 16.1 | 7.79 | 42.5 | 0.03 | 113.3 | 41 | 443 |
| Rockford Bay | 2598 | DTASBH | 6/24/98 | 11:01 | 3.3 | 12 | 2.6 | 11.1 | 15.8 | 7.76 | 42.5 | 0.03 | 112.7 | 42 | 445 |
| Rockford Bay | 2598 | DTASBH | 6/24/98 | 11:01 | 3.3 | 11 | 3.6 | 11.02 | 15.7 | 7.66 | 42.6 | 0.03 | 111.7 | 52 | 448 |
| Rockford Bay | 2598 | DTASBH | 6/24/98 | 11:01 | 3.3 | 10 | 4.6 | 11 | 15.6 | 7.63 | 42.2 | 0.03 | 111.1 | 105 | 451 |
| Rockford Bay | 2598 | DTASBH | 6/24/98 | 11:01 | 3.3 | 9 | 5.6 | 10.99 | 15.5 | 7.53 | 42.3 | 0.03 | 110.8 | 44 | 455 |
| Rockford Bay | 2598 | DTASBH | 6/24/98 | 11:01 | 3.3 | 8 | 6.6 | 10.61 | 15.4 | 7.33 | 43.2 | 0.03 | 106.8 | 49 | 459 |
| Rockford Bay | 2598 | DTASBH | 6/24/98 | 11:01 | 3.3 | 7 | 7.6 | 10.76 | 15.2 | 7.35 | 42.7 | 0.03 | 107.8 | 105 | 461 |
| Rockford Bay | 2598 | DTASBH | 6/24/98 | 11:01 | 3.3 | 6 | 8.6 | 10.61 | 14.5 | 7.15 | 42.3 | 0.03 | 104.6 | 38 | 467 |
| Rockford Bay | 2598 | DTASBH | 6/24/98 | 11:01 | 3.3 | 5 | 9.6 | 10.41 | 13.1 | 7.04 | 42.2 | 0.03 | 99.6 | 59 | 470 |

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|--------------|------|--------|---------|----------|-----|----|------|-------|------|------|------|------|-------|-----|-----|
| Rockford Bay | 2598 | DTASBH | 6/24/98 | 11:01 | 3.3 | 4 | 10.6 | 10.21 | 12.4 | 6.96 | 42.4 | 0.03 | 96.1 | 58 | 472 |
| Rockford Bay | 2598 | DTASBH | 6/24/98 | 11:01 | 3.3 | 3 | 11.6 | 10.19 | 11.3 | 6.91 | 41.7 | 0.03 | 93.6 | 124 | 474 |
| Rockford Bay | 2598 | DTASBH | 6/24/98 | 11:01 | 3.3 | 2 | 12.6 | 9.92 | 10.7 | 6.84 | 42 | 0.03 | 89.8 | 133 | 477 |
| Rockford Bay | 2598 | DTASBH | 6/24/98 | 11:01 | 3.3 | 1 | 13.6 | 9.85 | 9.92 | 6.78 | 42.3 | 0.03 | 87.5 | 619 | 480 |
| | | | | | | | | | | | | | | | |
| Rockford Bay | 2798 | ASDNBH | 7/8/98 | 9:03:16 | 3.3 | 14 | 0.4 | 10.13 | 20.7 | 8.12 | 44.5 | 0.03 | 112.8 | 133 | 359 |
| Rockford Bay | 2798 | ASDNBH | 7/8/98 | 9:03:16 | 3.3 | 13 | 1.2 | 10.2 | 20.3 | 8.16 | 44.4 | 0.03 | 112.8 | 134 | 359 |
| Rockford Bay | 2798 | ASDNBH | 7/8/98 | 9:03:16 | 3.3 | 12 | 2.2 | 10.27 | 20.2 | 8.19 | 44.4 | 0.03 | 113.1 | 131 | 359 |
| Rockford Bay | 2798 | ASDNBH | 7/8/98 | 9:03:16 | 3.3 | 11 | 3.2 | 10.37 | 20 | 8.22 | 44.4 | 0.03 | 113.9 | 123 | 359 |
| Rockford Bay | 2798 | ASDNBH | 7/8/98 | 9:03:16 | 3.3 | 10 | 4.2 | 10.38 | 20 | 8.22 | 44.5 | 0.03 | 114 | 125 | 360 |
| Rockford Bay | 2798 | ASDNBH | 7/8/98 | 9:03:16 | 3.3 | 9 | 5.2 | 10.52 | 19.7 | 8.27 | 44 | 0.03 | 114.9 | 111 | 360 |
| Rockford Bay | 2798 | ASDNBH | 7/8/98 | 9:03:16 | 3.3 | 8 | 6.2 | 10.64 | 19.4 | 8.31 | 43.7 | 0.03 | 115.5 | 135 | 360 |
| Rockford Bay | 2798 | ASDNBH | 7/8/98 | 9:03:16 | 3.3 | 7 | 7.2 | 10.73 | 19.1 | 8.31 | 43.6 | 0.03 | 115.7 | 136 | 361 |
| Rockford Bay | 2798 | ASDNBH | 7/8/98 | 9:03:16 | 3.3 | 6 | 8.2 | 10.81 | 18.5 | 8.18 | 43.4 | 0.03 | 115.2 | 130 | 366 |
| Rockford Bay | 2798 | ASDNBH | 7/8/98 | 9:03:16 | 3.3 | 5 | 9.2 | 10.77 | 17 | 7.88 | 43.3 | 0.03 | 111.1 | 109 | 375 |
| Rockford Bay | 2798 | ASDNBH | 7/8/98 | 9:03:16 | 3.3 | 4 | 10.2 | 9.98 | 14.8 | 7.21 | 42.2 | 0.03 | 98.3 | 136 | 386 |
| Rockford Bay | 2798 | ASDNBH | 7/8/98 | 9:03:16 | 3.3 | 3 | 11.2 | 9.47 | 13.2 | 6.98 | 41.6 | 0.03 | 90 | 159 | 389 |
| Rockford Bay | 2798 | ASDNBH | 7/8/98 | 9:03:16 | 3.3 | 2 | 12.2 | 9.27 | 12.4 | 6.89 | 41.6 | 0.03 | 86.5 | 19 | 392 |
| Rockford Bay | 2798 | ASDNBH | 7/8/98 | 9:03:16 | 3.3 | 1 | 13.2 | 9 | 12.2 | 6.85 | 41.6 | 0.03 | 83.6 | 412 | 394 |
| | | | | | | | | | | | | | | | |
| Rockford Bay | 2998 | ASBH | 7/20/98 | 10:54:42 | 6.5 | 13 | 0.7 | 9.39 | 22 | 7.84 | 50.7 | 0.03 | 107 | 115 | 333 |
| Rockford Bay | 2998 | ASBH | 7/20/98 | 10:54:42 | 6.5 | 12 | 1.7 | 9.46 | 21.6 | 7.84 | 50.3 | 0.03 | 107 | 101 | 332 |
| Rockford Bay | 2998 | ASBH | 7/20/98 | 10:54:42 | 6.5 | 11 | 2.7 | 9.55 | 21.3 | 7.84 | 50.3 | 0.03 | 107.3 | 101 | 332 |
| Rockford Bay | 2998 | ASBH | 7/20/98 | 10:54:42 | 6.5 | 10 | 3.7 | 9.59 | 21.1 | 7.84 | 49.8 | 0.03 | 107.4 | 104 | 332 |
| Rockford Bay | 2998 | ASBH | 7/20/98 | 10:54:42 | 6.5 | 9 | 4.7 | 9.7 | 20.6 | 7.83 | 49.6 | 0.03 | 107.6 | 112 | 332 |
| Rockford Bay | 2998 | ASBH | 7/20/98 | 10:54:42 | 6.5 | 8 | 5.7 | 9.78 | 20.3 | 7.85 | 49.3 | 0.03 | 107.8 | 110 | 330 |
| Rockford Bay | 2998 | ASBH | 7/20/98 | 10:54:42 | 6.5 | 7 | 6.7 | 9.89 | 19.9 | 7.85 | 49.2 | 0.03 | 108.2 | 58 | 330 |
| Rockford Bay | 2998 | ASBH | 7/20/98 | 10:54:42 | 6.5 | 6 | 7.7 | 9.91 | 19.7 | 7.81 | 49.1 | 0.03 | 108 | 58 | 329 |
| Rockford Bay | 2998 | ASBH | 7/20/98 | 10:54:42 | 6.5 | 5 | 8.7 | 9.94 | 19.6 | 7.76 | 48.9 | 0.03 | 108 | 104 | 329 |
| Rockford Bay | 2998 | ASBH | 7/20/98 | 10:54:42 | 6.5 | 4 | 9.7 | 10.18 | 18.5 | 7.72 | 48.2 | 0.03 | 108.4 | 122 | 329 |
| Rockford Bay | 2998 | ASBH | 7/20/98 | 10:54:42 | 6.5 | 3 | 10.7 | 10.29 | 17.2 | 7.54 | 47.5 | 0.03 | 106.7 | 118 | 330 |
| Rockford Bay | 2998 | ASBH | 7/20/98 | 10:54:42 | 6.5 | 2 | 11.7 | 10.08 | 14.8 | 7.34 | 46.3 | 0.03 | 99.1 | 133 | 329 |
| Rockford Bay | 2998 | ASBH | 7/20/98 | 10:54:42 | 6.5 | 1 | 12.7 | 9.9 | 13.4 | 7.16 | 45.7 | 0.03 | 94.6 | 207 | 326 |
| | | | | | | | | | | | | | | | |
| Rockford Bay | 3298 | DBAS | 8/10/98 | 10:22:34 | 9.9 | 14 | 0.3 | 8.77 | 24 | 7.81 | 55 | 0.04 | 103.8 | 43 | 334 |
| Rockford Bay | 3298 | DBAS | 8/10/98 | 10:22:34 | 9.9 | 13 | 1.7 | 8.79 | 23.9 | 7.81 | 55 | 0.04 | 103.7 | 46 | 333 |
| Rockford Bay | 3298 | DBAS | 8/10/98 | 10:22:34 | 9.9 | 12 | 2.8 | 8.82 | 23.8 | 7.82 | 54.8 | 0.04 | 103.9 | 37 | 333 |
| Rockford Bay | 3298 | DBAS | 8/10/98 | 10:22:34 | 9.9 | 11 | 3.9 | 8.85 | 23.7 | 7.81 | 54.9 | 0.04 | 104.1 | 51 | 333 |
| Rockford Bay | 3298 | DBAS | 8/10/98 | 10:22:34 | 9.9 | 10 | 4.9 | 8.87 | 23.6 | 7.8 | 54.9 | 0.04 | 104.2 | 37 | 333 |
| Rockford Bay | 3298 | DBAS | 8/10/98 | 10:22:34 | 9.9 | 9 | 5.8 | 8.86 | 23.5 | 7.78 | 54.7 | 0.04 | 103.8 | 101 | 333 |
| Rockford Bay | 3298 | DBAS | 8/10/98 | 10:22:34 | 9.9 | 8 | 6.9 | 8.87 | 23.4 | 7.77 | 54.7 | 0.04 | 103.8 | 102 | 332 |
| Rockford Bay | 3298 | DBAS | 8/10/98 | 10:22:34 | 9.9 | 7 | 7.9 | 8.87 | 23.4 | 7.68 | 54.6 | 0.04 | 103.7 | 117 | 332 |
| Rockford Bay | 3298 | DBAS | 8/10/98 | 10:22:34 | 9.9 | 6 | 8.8 | 8.49 | 23.1 | 7.45 | 54.3 | 0.03 | 98.8 | 113 | 335 |
| Rockford Bay | 3298 | DBAS | 8/10/98 | 10:22:34 | 9.9 | 5 | 9.7 | 9.36 | 20.9 | 7.48 | 50.8 | 0.03 | 104.4 | 159 | 333 |

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|--------------|------|------|---------|----------|-----|----|------|-------|------|------|------|------|-------|-----|-----|
| Rockford Bay | 3298 | DBAS | 8/10/98 | 10:22:34 | 9.9 | 4 | 10.9 | 10.52 | 16.9 | 7.39 | 47.9 | 0.03 | 108.3 | 124 | 330 |
| Rockford Bay | 3298 | DBAS | 8/10/98 | 10:22:34 | 9.9 | 3 | 11.7 | 9.81 | 15.3 | 7.19 | 47.1 | 0.03 | 97.5 | 143 | 328 |
| Rockford Bay | 3298 | DBAS | 8/10/98 | 10:22:34 | 9.9 | 2 | 12.7 | 9.66 | 13.8 | 7.06 | 46.8 | 0.03 | 93 | 117 | 316 |
| Rockford Bay | 3298 | DBAS | 8/10/98 | 10:22:34 | 9.9 | 1 | 13.7 | 8.63 | 12.3 | 7.03 | 46.8 | 0.03 | 80.3 | 131 | 376 |
| Rockford Bay | 3498 | DTAS | 8/24/98 | 15:12:19 | 10 | 18 | 0.4 | 9.09 | 21.9 | 7.74 | 54.6 | 0.03 | 103.6 | 51 | 347 |
| Rockford Bay | 3498 | DTAS | 8/24/98 | 15:12:19 | 10 | 17 | 1.5 | 9.07 | 21.8 | 7.78 | 54.5 | 0.03 | 103.2 | 123 | 348 |
| Rockford Bay | 3498 | DTAS | 8/24/98 | 15:12:19 | 10 | 16 | 2.2 | 9.06 | 21.7 | 7.78 | 54.8 | 0.04 | 103 | 111 | 348 |
| Rockford Bay | 3498 | DTAS | 8/24/98 | 15:12:19 | 10 | 15 | 3 | 9.12 | 21.4 | 7.77 | 54.8 | 0.04 | 103 | 59 | 350 |
| Rockford Bay | 3498 | DTAS | 8/24/98 | 15:12:19 | 10 | 14 | 3.7 | 9.12 | 21.4 | 7.77 | 54.6 | 0.04 | 102.9 | 125 | 350 |
| Rockford Bay | 3498 | DTAS | 8/24/98 | 15:12:19 | 10 | 13 | 4.5 | 9.13 | 21.3 | 7.73 | 54.8 | 0.04 | 102.9 | 52 | 352 |
| Rockford Bay | 3498 | DTAS | 8/24/98 | 15:12:19 | 10 | 12 | 5.2 | 9.13 | 21.3 | 7.71 | 54.7 | 0.04 | 102.8 | 102 | 352 |
| Rockford Bay | 3498 | DTAS | 8/24/98 | 15:12:19 | 10 | 11 | 6 | 9.1 | 21.2 | 7.67 | 54.7 | 0.04 | 102.4 | 117 | 354 |
| Rockford Bay | 3498 | DTAS | 8/24/98 | 15:12:19 | 10 | 10 | 6.7 | 9.08 | 21.2 | 7.64 | 54.8 | 0.04 | 102.2 | 103 | 355 |
| Rockford Bay | 3498 | DTAS | 8/24/98 | 15:12:19 | 10 | 9 | 7.5 | 9.04 | 21.2 | 7.56 | 54.9 | 0.04 | 101.6 | 103 | 357 |
| Rockford Bay | 3498 | DTAS | 8/24/98 | 15:12:19 | 10 | 8 | 8.2 | 9.02 | 21.1 | 7.49 | 55 | 0.04 | 101.2 | 113 | 359 |
| Rockford Bay | 3498 | DTAS | 8/24/98 | 15:12:19 | 10 | 7 | 9 | 8.92 | 20.5 | 7.34 | 54 | 0.03 | 99 | 109 | 364 |
| Rockford Bay | 3498 | DTAS | 8/24/98 | 15:12:19 | 10 | 6 | 9.7 | 9.51 | 19.3 | 7.22 | 51.9 | 0.03 | 103.1 | 47 | 368 |
| Rockford Bay | 3498 | DTAS | 8/24/98 | 15:12:19 | 10 | 5 | 10.5 | 10.19 | 17.3 | 7.13 | 47.9 | 0.03 | 105.9 | 133 | 370 |
| Rockford Bay | 3498 | DTAS | 8/24/98 | 15:12:19 | 10 | 4 | 11.2 | 9.73 | 15.4 | 6.95 | 46.9 | 0.03 | 97.3 | 110 | 375 |
| Rockford Bay | 3498 | DTAS | 8/24/98 | 15:12:19 | 10 | 3 | 12 | 8.71 | 12.9 | 6.76 | 46.7 | 0.03 | 82.4 | 50 | 378 |
| Rockford Bay | 3498 | DTAS | 8/24/98 | 15:12:19 | 10 | 2 | 12.7 | 8.56 | 11.5 | 6.73 | 47 | 0.03 | 78.4 | 131 | 379 |
| Rockford Bay | 3498 | DTAS | 8/24/98 | 15:12:19 | 10 | 1 | 13.5 | 8.74 | 11.5 | 6.77 | 47.1 | 0.03 | 80 | 239 | 377 |
| Rockford Bay | 3598 | DTAS | 9/2/98 | 10:48:53 | 8.2 | 14 | 0.3 | 8.93 | 21.9 | 7.83 | 53.6 | 0.03 | 102.1 | 58 | 330 |
| Rockford Bay | 3598 | DTAS | 9/2/98 | 10:48:53 | 8.2 | 13 | 1.6 | 8.95 | 21.8 | 7.79 | 53.4 | 0.03 | 102 | 57 | 333 |
| Rockford Bay | 3598 | DTAS | 9/2/98 | 10:48:53 | 8.2 | 12 | 2.6 | 8.98 | 21.5 | 7.78 | 53.5 | 0.03 | 101.8 | 108 | 335 |
| Rockford Bay | 3598 | DTAS | 9/2/98 | 10:48:53 | 8.2 | 11 | 3.6 | 8.99 | 21.4 | 7.76 | 53.4 | 0.03 | 101.8 | 109 | 336 |
| Rockford Bay | 3598 | DTAS | 9/2/98 | 10:48:53 | 8.2 | 10 | 4.6 | 8.99 | 21.4 | 7.73 | 53.6 | 0.03 | 101.7 | 55 | 337 |
| Rockford Bay | 3598 | DTAS | 9/2/98 | 10:48:53 | 8.2 | 9 | 5.6 | 8.98 | 21.3 | 7.7 | 53.4 | 0.03 | 101.5 | 58 | 339 |
| Rockford Bay | 3598 | DTAS | 9/2/98 | 10:48:53 | 8.2 | 8 | 6.6 | 8.99 | 21.3 | 7.69 | 53.5 | 0.03 | 101.6 | 131 | 339 |
| Rockford Bay | 3598 | DTAS | 9/2/98 | 10:48:53 | 8.2 | 7 | 7.6 | 8.98 | 21.3 | 7.66 | 53.2 | 0.03 | 101.4 | 58 | 341 |
| Rockford Bay | 3598 | DTAS | 9/2/98 | 10:48:53 | 8.2 | 6 | 8.6 | 8.91 | 21.2 | 7.56 | 53.8 | 0.03 | 100.4 | 103 | 345 |
| Rockford Bay | 3598 | DTAS | 9/2/98 | 10:48:53 | 8.2 | 5 | 9.6 | 8.8 | 21.1 | 7.46 | 53.5 | 0.03 | 99 | 123 | 349 |
| Rockford Bay | 3598 | DTAS | 9/2/98 | 10:48:53 | 8.2 | 4 | 10.6 | 8.88 | 20.4 | 7.34 | 53 | 0.03 | 98.6 | 132 | 353 |
| Rockford Bay | 3598 | DTAS | 9/2/98 | 10:48:53 | 8.2 | 3 | 11.6 | 8.79 | 19 | 7.01 | 50 | 0.03 | 94.8 | 54 | 365 |
| Rockford Bay | 3598 | DTAS | 9/2/98 | 10:48:53 | 8.2 | 2 | 12.6 | 8.5 | 14.1 | 6.74 | 46.1 | 0.03 | 82.7 | 38 | 370 |
| Rockford Bay | 3598 | DTAS | 9/2/98 | 10:48:53 | 8.2 | 1 | 13.6 | 7.11 | 12.3 | 6.64 | 47.2 | 0.03 | 66.5 | 715 | 372 |
| Rockford Bay | 3998 | ASKB | 9/30/98 | 10:40:23 | 7.9 | 14 | 0.2 | 9.21 | 18 | 7.66 | 55.4 | 0.04 | 97.2 | 52 | 361 |
| Rockford Bay | 3998 | ASKB | 9/30/98 | 10:40:23 | 7.9 | 13 | 1.3 | 9.21 | 18 | 7.61 | 55.4 | 0.04 | 97.2 | 142 | 365 |
| Rockford Bay | 3998 | ASKB | 9/30/98 | 10:40:23 | 7.9 | 12 | 2.3 | 9.18 | 17.9 | 7.59 | 55.6 | 0.04 | 96.7 | 52 | 366 |
| Rockford Bay | 3998 | ASKB | 9/30/98 | 10:40:23 | 7.9 | 11 | 3.2 | 9.15 | 17.9 | 7.57 | 55.3 | 0.04 | 96.3 | 110 | 367 |
| Rockford Bay | 3998 | ASKB | 9/30/98 | 10:40:23 | 7.9 | 10 | 4.3 | 9.14 | 17.9 | 7.55 | 55.2 | 0.04 | 96.1 | 136 | 369 |

| | | | | | | | | | | | | | | | |
|--------------|------|--------|----------|----------|-----|----|------|------|------|------|------|------|------|-----|-----|
| Rockford Bay | 3998 | ASKB | 9/30/98 | 10:40:23 | 7.9 | 9 | 5.3 | 9.09 | 17.8 | 7.52 | 55.4 | 0.04 | 95.6 | 116 | 371 |
| Rockford Bay | 3998 | ASKB | 9/30/98 | 10:40:23 | 7.9 | 8 | 6.3 | 9.07 | 17.8 | 7.49 | 55.7 | 0.04 | 95.3 | 213 | 372 |
| Rockford Bay | 3998 | ASKB | 9/30/98 | 10:40:23 | 7.9 | 7 | 7.2 | 9.04 | 17.8 | 0 | 55.4 | 0.04 | 94.9 | 122 | 372 |
| Rockford Bay | 3998 | ASKB | 9/30/98 | 10:40:23 | 7.9 | 6 | 8.3 | 9.06 | 17.8 | 7.48 | 55.7 | 0.04 | 95.1 | 210 | 374 |
| Rockford Bay | 3998 | ASKB | 9/30/98 | 10:40:23 | 7.9 | 5 | 9.3 | 9.03 | 17.7 | 7.48 | 55.3 | 0.04 | 94.7 | 332 | 374 |
| Rockford Bay | 3998 | ASKB | 9/30/98 | 10:40:23 | 7.9 | 4 | 10.3 | 9.03 | 17.7 | 7.45 | 55.6 | 0.04 | 94.7 | 234 | 376 |
| Rockford Bay | 3998 | ASKB | 9/30/98 | 10:40:23 | 7.9 | 3 | 11.3 | 8.97 | 17.7 | 7.43 | 55.7 | 0.04 | 94.1 | 346 | 378 |
| Rockford Bay | 3998 | ASKB | 9/30/98 | 10:40:23 | 7.9 | 2 | 12.3 | 8.93 | 17.7 | 7.33 | 55.5 | 0.04 | 93.6 | 203 | 382 |
| Rockford Bay | 3998 | ASKB | 9/30/98 | 10:40:23 | 7.9 | 1 | 13.3 | 7.81 | 17.3 | 7.11 | 55.5 | 0.04 | 81.1 | 850 | 389 |
| | | | | | | | | | | | | | | | |
| Rockford Bay | 4298 | DTASKB | 10/20/98 | 10:13:09 | 8.2 | 14 | 0.4 | 9.39 | 12.9 | 7.37 | 52 | 0.03 | 87.7 | 39 | 355 |
| Rockford Bay | 4298 | DTASKB | 10/20/98 | 10:13:09 | 8.2 | 13 | 0.9 | 9.35 | 12.9 | 7.37 | 52 | 0.03 | 87.4 | 37 | 355 |
| Rockford Bay | 4298 | DTASKB | 10/20/98 | 10:13:09 | 8.2 | 12 | 1.9 | 9.36 | 12.9 | 7.39 | 52 | 0.03 | 87.5 | 26 | 354 |
| Rockford Bay | 4298 | DTASKB | 10/20/98 | 10:13:09 | 8.2 | 11 | 2.9 | 9.32 | 12.9 | 7.34 | 52.1 | 0.03 | 87.1 | 50 | 356 |
| Rockford Bay | 4298 | DTASKB | 10/20/98 | 10:13:09 | 8.2 | 10 | 3.9 | 9.35 | 12.9 | 7.36 | 52.1 | 0.03 | 87.4 | 39 | 356 |
| Rockford Bay | 4298 | DTASKB | 10/20/98 | 10:13:09 | 8.2 | 9 | 4.9 | 9.33 | 12.9 | 7.34 | 52 | 0.03 | 87.2 | 25 | 356 |
| Rockford Bay | 4298 | DTASKB | 10/20/98 | 10:13:09 | 8.2 | 8 | 5.9 | 9.33 | 12.9 | 7.34 | 52.1 | 0.03 | 87.1 | 37 | 356 |
| Rockford Bay | 4298 | DTASKB | 10/20/98 | 10:13:09 | 8.2 | 7 | 6.9 | 9.35 | 12.9 | 7.34 | 51.8 | 0.03 | 87.4 | 33 | 356 |
| Rockford Bay | 4298 | DTASKB | 10/20/98 | 10:13:09 | 8.2 | 6 | 7.9 | 9.35 | 12.9 | 7.35 | 52.2 | 0.03 | 87.4 | 33 | 355 |
| Rockford Bay | 4298 | DTASKB | 10/20/98 | 10:13:09 | 8.2 | 5 | 8.9 | 9.36 | 12.9 | 7.34 | 51.8 | 0.03 | 87.5 | 37 | 355 |
| Rockford Bay | 4298 | DTASKB | 10/20/98 | 10:13:09 | 8.2 | 4 | 9.9 | 9.35 | 12.8 | 7.34 | 51.8 | 0.03 | 87.3 | 42 | 355 |
| Rockford Bay | 4298 | DTASKB | 10/20/98 | 10:13:09 | 8.2 | 3 | 10.9 | 9.37 | 12.8 | 7.32 | 51.9 | 0.03 | 87.3 | 37 | 355 |
| Rockford Bay | 4298 | DTASKB | 10/20/98 | 10:13:09 | 8.2 | 2 | 11.9 | 9.4 | 12.7 | 7.32 | 51.7 | 0.03 | 87.6 | 49 | 354 |
| Rockford Bay | 4298 | DTASKB | 10/20/98 | 10:13:09 | 8.2 | 1 | 12.9 | 9.4 | 12.6 | 7.29 | 52.1 | 0.03 | 87.4 | 138 | 363 |
| | | | | | | | | | | | | | | | |
| Rockford Bay | 4598 | KB AS | 11/12/98 | 10:46:32 | 9.1 | 17 | 0.5 | 8.58 | 10 | 7.26 | 52.7 | 0.03 | 75.5 | 30 | 385 |
| Rockford Bay | 4598 | KB AS | 11/12/98 | 10:46:32 | 9.1 | 16 | 1.7 | 8.59 | 10 | 7.24 | 52.7 | 0.03 | 75.6 | 35 | 387 |
| Rockford Bay | 4598 | KB AS | 11/12/98 | 10:46:32 | 9.1 | 15 | 2.7 | 8.58 | 10 | 7.22 | 52.6 | 0.03 | 75.5 | 32 | 388 |
| Rockford Bay | 4598 | KB AS | 11/12/98 | 10:46:32 | 9.1 | 14 | 2.7 | 8.57 | 0 | 7.23 | 52.7 | 0.03 | 82.5 | 6 | 390 |
| Rockford Bay | 4598 | KB AS | 11/12/98 | 10:46:32 | 9.1 | 13 | 3.6 | 8.56 | 10 | 7.24 | 52.7 | 0.03 | 75.4 | 32 | 387 |
| Rockford Bay | 4598 | KB AS | 11/12/98 | 10:46:32 | 9.1 | 12 | 4.6 | 8.56 | 10 | 7.22 | 52.6 | 0.03 | 75.4 | 37 | 388 |
| Rockford Bay | 4598 | KB AS | 11/12/98 | 10:46:32 | 9.1 | 11 | 5.7 | 8.58 | 10 | 7.2 | 52.7 | 0.03 | 75.5 | 37 | 390 |
| Rockford Bay | 4598 | KB AS | 11/12/98 | 10:46:32 | 9.1 | 10 | 6.6 | 8.58 | 10 | 7.21 | 52.7 | 0.03 | 96.8 | 5 | 389 |
| Rockford Bay | 4598 | KB AS | 11/12/98 | 10:46:32 | 9.1 | 9 | 6.7 | 8.56 | 0 | 7.2 | 52.6 | 0.03 | 94.9 | 8 | 390 |
| Rockford Bay | 4598 | KB AS | 11/12/98 | 10:46:32 | 9.1 | 8 | 7.7 | 8.56 | 10 | 7.19 | 52.9 | 0.03 | 75.3 | 34 | 390 |
| Rockford Bay | 4598 | KB AS | 11/12/98 | 10:46:32 | 9.1 | 7 | 8.7 | 8.56 | 10 | 7.2 | 52.3 | 0.03 | 75.3 | 41 | 390 |
| Rockford Bay | 4598 | KB AS | 11/12/98 | 10:46:32 | 9.1 | 6 | 9.7 | 8.57 | 9.99 | 0 | 52.9 | 0.03 | 75.4 | 52 | 390 |
| Rockford Bay | 4598 | KB AS | 11/12/98 | 10:46:32 | 9.1 | 5 | 10.6 | 8.59 | 9.92 | 7.2 | 52.8 | 0.03 | 75.4 | 107 | 390 |
| Rockford Bay | 4598 | KB AS | 11/12/98 | 10:46:32 | 9.1 | 3 | 11.7 | 8.51 | 9.82 | 7.16 | 52.5 | 0.03 | 74.6 | 101 | 391 |
| Rockford Bay | 4598 | KB AS | 11/12/98 | 10:46:32 | 9.1 | 2 | 12.7 | 8.49 | 9.78 | 7.14 | 52.8 | 0.03 | 74.3 | 59 | 392 |

| Location | Phase | Samplers | Date | Time | Secchi (m) | Sequence | Depth (m) | Dissolved Oxygen (mg/L) | Temperature (C) | pH | Conductivity (μs/cm) | TDS | Saturated Dissolved Oxygen | Stabilization Time | Redox |
|-------------------|-------|----------|---------|----------|------------|----------|-----------|-------------------------|-----------------|------|----------------------|------|----------------------------|--------------------|-------|
| Windy Bay Shallow | 1098 | DBRP | 3/13/98 | 10:42:36 | 2 | 15 | 0.3 | 13.5 | 4.31 | 7.03 | 53.4 | 0.03 | 103.3 | 36 | 394 |
| Windy Bay Shallow | 1098 | DBRP | 3/13/98 | 10:42:36 | 2 | 14 | 1 | 13.6 | 4.09 | 7.09 | 53.3 | 0.03 | 102.8 | 53 | 393 |
| Windy Bay Shallow | 1098 | DBRP | 3/13/98 | 10:42:36 | 2 | 13 | 2 | 13.5 | 4.08 | 7.06 | 53.4 | 0.03 | 102.6 | 46 | 395 |
| Windy Bay Shallow | 1098 | DBRP | 3/13/98 | 10:42:36 | 2 | 12 | 3 | 13.5 | 4.04 | 7.08 | 53.2 | 0.03 | 102.5 | 55 | 393 |
| Windy Bay Shallow | 1098 | DBRP | 3/13/98 | 10:42:36 | 2 | 11 | 4 | 13.5 | 4.06 | 7.07 | 53.5 | 0.03 | 102.3 | 208 | 393 |
| Windy Bay Shallow | 1098 | DBRP | 3/13/98 | 10:42:36 | 2 | 10 | 5 | 13.5 | 4.03 | 7.01 | 53.4 | 0.03 | 102.2 | 107 | 395 |
| Windy Bay Shallow | 1098 | DBRP | 3/13/98 | 10:42:36 | 2 | 9 | 6 | 13.5 | 4.01 | 6.97 | 53.7 | 0.03 | 102.2 | 114 | 395 |
| Windy Bay Shallow | 1098 | DBRP | 3/13/98 | 10:42:36 | 2 | 8 | 7 | 13.5 | 4.03 | 6.99 | 53.9 | 0.03 | 102.1 | 39 | 394 |
| Windy Bay Shallow | 1098 | DBRP | 3/13/98 | 10:42:36 | 2 | 7 | 8 | 13.4 | 4.06 | 6.94 | 53.9 | 0.03 | 101.9 | 110 | 396 |
| Windy Bay Shallow | 1098 | DBRP | 3/13/98 | 10:42:36 | 2 | 6 | 9 | 13.5 | 4.04 | 6.97 | 54.3 | 0.03 | 102 | 136 | 393 |
| Windy Bay Shallow | 1098 | DBRP | 3/13/98 | 10:42:36 | 2 | 5 | 10 | 13.5 | 4.08 | 6.93 | 54.3 | 0.03 | 102.2 | 102 | 393 |
| Windy Bay Shallow | 1098 | DBRP | 3/13/98 | 10:42:36 | 2 | 4 | 11 | 13.5 | 4.08 | 6.91 | 54.5 | 0.03 | 102.2 | 116 | 392 |
| Windy Bay Shallow | 1098 | DBRP | 3/13/98 | 10:42:36 | 2 | 3 | 12 | 13.5 | 4.11 | 6.85 | 54.5 | 0.03 | 102.2 | 118 | 394 |
| Windy Bay Shallow | 1098 | DBRP | 3/13/98 | 10:42:36 | 2 | 2 | 13 | 13.5 | 4.24 | 6.79 | 55.2 | 0.04 | 102.6 | 120 | 395 |
| Windy Bay Shallow | 1098 | DBRP | 3/13/98 | 10:42:36 | 2 | 1 | 14 | 13.6 | 4.29 | 6.74 | 55.4 | 0.04 | 103.5 | 147 | 394 |
| | | | | | | | | | | | | | | | |
| Windy Bay Shallow | 1498 | DBAS | 4/8/98 | 10:45:10 | 2.8 | 16 | 0.3 | 12.6 | 5.49 | 6.97 | 52.4 | 0.03 | 100.2 | 109 | 437 |
| Windy Bay Shallow | 1498 | DBAS | 4/8/98 | 10:45:10 | 2.8 | 15 | 1 | 12.6 | 5.5 | 7.01 | 52.4 | 0.03 | 100.2 | 108 | 436 |
| Windy Bay Shallow | 1498 | DBAS | 4/8/98 | 10:45:10 | 2.8 | 14 | 2 | 12.6 | 5.41 | 7.05 | 52.5 | 0.03 | 99.7 | 54 | 435 |
| Windy Bay Shallow | 1498 | DBAS | 4/8/98 | 10:45:10 | 2.8 | 13 | 3 | 12.6 | 5.29 | 7.08 | 52.4 | 0.03 | 99.5 | 109 | 434 |
| Windy Bay Shallow | 1498 | DBAS | 4/8/98 | 10:45:10 | 2.8 | 12 | 4 | 12.6 | 5.34 | 7 | 52.4 | 0.03 | 99.6 | 142 | 438 |
| Windy Bay Shallow | 1498 | DBAS | 4/8/98 | 10:45:10 | 2.8 | 11 | 4.9 | 12.7 | 5.26 | 7.03 | 52.7 | 0.03 | 99.9 | 41 | 438 |
| Windy Bay Shallow | 1498 | DBAS | 4/8/98 | 10:45:10 | 2.8 | 10 | 5.9 | 12.7 | 5.17 | 7.02 | 52.7 | 0.03 | 99.8 | 100 | 438 |
| Windy Bay Shallow | 1498 | DBAS | 4/8/98 | 10:45:10 | 2.8 | 9 | 7 | 12.7 | 5.12 | 6.99 | 52.7 | 0.03 | 99.6 | 50 | 439 |
| Windy Bay Shallow | 1498 | DBAS | 4/8/98 | 10:45:10 | 2.8 | 8 | 8 | 12.7 | 5.09 | 7 | 52.7 | 0.03 | 99.6 | 134 | 438 |
| Windy Bay Shallow | 1498 | DBAS | 4/8/98 | 10:45:10 | 2.8 | 7 | 9 | 12.7 | 5.11 | 7 | 52.8 | 0.03 | 99.4 | 138 | 438 |
| Windy Bay Shallow | 1498 | DBAS | 4/8/98 | 10:45:10 | 2.8 | 6 | 10 | 12.7 | 5.11 | 7.02 | 52.9 | 0.03 | 99.6 | 59 | 437 |
| Windy Bay Shallow | 1498 | DBAS | 4/8/98 | 10:45:10 | 2.8 | 5 | 11 | 12.7 | 5.09 | 6.95 | 52.9 | 0.03 | 99.8 | 108 | 440 |
| Windy Bay Shallow | 1498 | DBAS | 4/8/98 | 10:45:10 | 2.8 | 4 | 12 | 12.7 | 5.06 | 6.95 | 53 | 0.03 | 99.7 | 157 | 440 |
| Windy Bay Shallow | 1498 | DBAS | 4/8/98 | 10:45:10 | 2.8 | 3 | 13 | 12.7 | 5.06 | 6.95 | 53 | 0.03 | 99.8 | 216 | 439 |
| Windy Bay Shallow | 1498 | DBAS | 4/8/98 | 10:45:10 | 2.8 | 2 | 14 | 12.8 | 5.08 | 6.96 | 52.9 | 0.03 | 100.2 | 140 | 438 |
| Windy Bay Shallow | 1498 | DBAS | 4/8/98 | 10:45:10 | 2.8 | 1 | 15 | 12.8 | 5.19 | 6.92 | 52.8 | 0.03 | 100.6 | 250 | 439 |
| | | | | | | | | | | | | | | | |
| Windy Bay Shallow | 1698 | DBASRP | 4/24/98 | 9:31:58 | 3.5 | 11 | 0.3 | 12.2 | 6.05 | 7.08 | 49 | 0.03 | 99.9 | 103 | 418 |
| Windy Bay Shallow | 1698 | DBASRP | 4/24/98 | 9:31:58 | 3.5 | 10 | 1.7 | 12.2 | 6.05 | 7.12 | 49 | 0.03 | 99.4 | 59 | 422 |
| Windy Bay Shallow | 1698 | DBASRP | 4/24/98 | 9:31:58 | 3.5 | 9 | 2.9 | 12.2 | 6.02 | 7.05 | 49 | 0.03 | 99.8 | 114 | 425 |
| Windy Bay Shallow | 1698 | DBASRP | 4/24/98 | 9:31:58 | 3.5 | 8 | 4.6 | 12.2 | 6.03 | 6.96 | 49.2 | 0.03 | 99.4 | 48 | 431 |
| Windy Bay Shallow | 1698 | DBASRP | 4/24/98 | 9:31:58 | 3.5 | 7 | 6.1 | 12.2 | 5.79 | 7.01 | 49.3 | 0.03 | 98.7 | 124 | 428 |
| Windy Bay Shallow | 1698 | DBASRP | 4/24/98 | 9:31:58 | 3.5 | 6 | 7.7 | 12.2 | 5.77 | 6.95 | 49.2 | 0.03 | 98.7 | 107 | 431 |
| Windy Bay Shallow | 1698 | DBASRP | 4/24/98 | 9:31:58 | 3.5 | 5 | 9 | 12.1 | 5.82 | 6.95 | 49.2 | 0.03 | 98.5 | 41 | 431 |
| Windy Bay Shallow | 1698 | DBASRP | 4/24/98 | 9:31:58 | 3.5 | 4 | 10.4 | 12.1 | 5.67 | 6.99 | 49.4 | 0.03 | 97.6 | 134 | 428 |
| Windy Bay Shallow | 1698 | DBASRP | 4/24/98 | 9:31:58 | 3.5 | 3 | 11.9 | 12.2 | 4.88 | 6.88 | 50.5 | 0.03 | 96.3 | 130 | 433 |

| | | | | | | | | | | | | | | | |
|-------------------|------|--------|---------|----------|-----|----|------|------|-------|------|------|-------|-------|-----|-----|
| Windy Bay Shallow | 1698 | DBASRP | 4/24/98 | 9:31:58 | 3.5 | 2 | 14 | 12.2 | 5.56 | 6.91 | 49.6 | 0.03 | 98.4 | 56 | 431 |
| Windy Bay Shallow | 1698 | DBASRP | 4/24/98 | 9:31:58 | 3.5 | 1 | 15.7 | 12.8 | 5.14 | 6.93 | 50.1 | 0.03 | 102 | 116 | 430 |
| | | | | | | | | | | | | | | | |
| Windy Bay Shallow | 2198 | ASJLDT | 5/26/98 | 10:33:29 | 3.4 | 13 | 0.3 | 11.7 | 10.51 | 7.15 | 42.2 | 0.03 | 106.2 | 52 | 396 |
| Windy Bay Shallow | 2198 | ASJLDT | 5/26/98 | 10:33:29 | 3.4 | 12 | 1.5 | 11.7 | 10.48 | 7.19 | 42.2 | 0.03 | 106.1 | 108 | 394 |
| Windy Bay Shallow | 2198 | ASJLDT | 5/26/98 | 10:33:29 | 3.4 | 11 | 3 | 11.7 | 10.45 | 7.14 | 42.2 | 0.03 | 105.8 | 128 | 395 |
| Windy Bay Shallow | 2198 | ASJLDT | 5/26/98 | 10:33:29 | 3.4 | 10 | 4.5 | 11.7 | 10.09 | 7.04 | 42.9 | 0.03 | 104.9 | 141 | 397 |
| Windy Bay Shallow | 2198 | ASJLDT | 5/26/98 | 10:33:29 | 3.4 | 9 | 6 | 11.6 | 9.91 | 7.05 | 43 | 0.03 | 103.5 | 153 | 392 |
| Windy Bay Shallow | 2198 | ASJLDT | 5/26/98 | 10:33:29 | 3.4 | 8 | 7.5 | 11.6 | 9.73 | 7 | 43.1 | 0.03 | 102.7 | 204 | 391 |
| Windy Bay Shallow | 2198 | ASJLDT | 5/26/98 | 10:33:29 | 3.4 | 6 | 9 | 11.5 | 9.58 | 6.94 | 43.3 | 0.03 | 101.9 | 258 | 390 |
| Windy Bay Shallow | 2198 | ASJLDT | 5/26/98 | 10:33:29 | 3.4 | 5 | 10.5 | 11.5 | 9.5 | 6.93 | 43.5 | 0.03 | 101.7 | 245 | 384 |
| Windy Bay Shallow | 2198 | ASJLDT | 5/26/98 | 10:33:29 | 3.4 | 4 | 12 | 11.5 | 9.4 | 6.88 | 43.7 | 0.03 | 101.4 | 125 | 378 |
| Windy Bay Shallow | 2198 | ASJLDT | 5/26/98 | 10:33:29 | 3.4 | 3 | 13.5 | 11.5 | 9.22 | 6.77 | 44.1 | 0.03 | 100.9 | 147 | 379 |
| Windy Bay Shallow | 2198 | ASJLDT | 5/26/98 | 10:33:29 | 3.4 | 2 | 15 | 11.5 | 9.09 | 6.77 | 44.1 | 0.03 | 100.4 | 156 | 370 |
| Windy Bay Shallow | 2198 | ASJLDT | 5/26/98 | 10:33:29 | 3.4 | 1 | 16.2 | 11 | 8.81 | 6.73 | 44.7 | 0.03 | 95.9 | 604 | 383 |
| | | | | | | | | | | | | | | | |
| Windy Bay Shallow | 2398 | DTJLAS | 6/8/98 | 10:36:03 | 4 | 11 | 0.3 | 11 | 17.22 | 7.82 | 43.8 | 0.03 | 114.8 | 28 | 420 |
| Windy Bay Shallow | 2398 | DTJLAS | 6/8/98 | 10:36:03 | 4 | 10 | 2 | 11 | 16.69 | 7.79 | 43.7 | 0.03 | 113 | 47 | 423 |
| Windy Bay Shallow | 2398 | DTJLAS | 6/8/98 | 10:36:03 | 4 | 9 | 3.5 | 11 | 16.36 | 7.77 | 43.8 | 0.03 | 112.9 | 37 | 424 |
| Windy Bay Shallow | 2398 | DTJLAS | 6/8/98 | 10:36:03 | 4 | 8 | 5 | 11 | 16.21 | 7.75 | 43.8 | 0.03 | 112.5 | 116 | 426 |
| Windy Bay Shallow | 2398 | DTJLAS | 6/8/98 | 10:36:03 | 4 | 7 | 6.5 | 11.2 | 15.71 | 7.71 | 43.6 | 0.03 | 112.4 | 140 | 428 |
| Windy Bay Shallow | 2398 | DTJLAS | 6/8/98 | 10:36:03 | 4 | 6 | 8 | 11.3 | 15.39 | 7.69 | 43.5 | 0.03 | 112.7 | 143 | 430 |
| Windy Bay Shallow | 2398 | DTJLAS | 6/8/98 | 10:36:03 | 4 | 5 | 9.5 | 11.3 | 15.01 | 7.61 | 43.4 | 0.03 | 112 | 129 | 433 |
| Windy Bay Shallow | 2398 | DTJLAS | 6/8/98 | 10:36:03 | 4 | 4 | 11 | 11.3 | 13.86 | 7.45 | 43 | 0.03 | 109.7 | 50 | 437 |
| Windy Bay Shallow | 2398 | DTJLAS | 6/8/98 | 10:36:03 | 4 | 3 | 12.5 | 11.3 | 13.33 | 7.38 | 43.2 | 0.03 | 107.9 | 114 | 440 |
| Windy Bay Shallow | 2398 | DTJLAS | 6/8/98 | 10:36:03 | 4 | 2 | 14 | 11 | 12.89 | 7.27 | 43.3 | 0.03 | 103.9 | 128 | 443 |
| Windy Bay Shallow | 2398 | DTJLAS | 6/8/98 | 10:36:03 | 4 | 1 | 15.5 | 10.8 | 12.36 | 7.21 | 43.5 | 0.03 | 101.1 | 240 | 445 |
| | | | | | | | | | | | | | | | |
| Windy Bay Shallow | 2598 | DTASBH | 6/24/98 | 11:03:05 | 3.1 | 16 | 0.3 | 10.9 | 16.73 | 8.09 | 43.1 | 0.03 | 112.5 | 104 | 399 |
| Windy Bay Shallow | 2598 | DTASBH | 6/24/98 | 11:03:05 | 3.1 | 15 | 1.6 | 10.9 | 16.72 | 8.07 | 43.2 | 0.03 | 112.6 | 102 | 402 |
| Windy Bay Shallow | 2598 | DTASBH | 6/24/98 | 11:03:05 | 3.1 | 14 | 2.6 | 10.9 | 16.68 | 8.04 | 43 | 0.03 | 112.4 | 59 | 404 |
| Windy Bay Shallow | 2598 | DTASBH | 6/24/98 | 11:03:05 | 3.1 | 13 | 3.6 | 10.9 | 16.63 | 8.02 | 43 | 0.03 | 112.7 | 32 | 405 |
| Windy Bay Shallow | 2598 | DTASBH | 6/24/98 | 11:03:05 | 3.1 | 12 | 4.6 | 10.9 | 16.55 | 7.95 | 43 | 0.03 | 112.5 | 56 | 408 |
| Windy Bay Shallow | 2598 | DTASBH | 6/24/98 | 11:03:05 | 3.1 | 11 | 5.6 | 11 | 15.79 | 7.78 | 42.9 | 0.03 | 111.2 | 54 | 411 |
| Windy Bay Shallow | 2598 | DTASBH | 6/24/98 | 11:03:05 | 3.1 | 10 | 6.6 | 10.9 | 7.65 | 42.1 | 0.03 | 109.3 | 134 | 415 | |
| Windy Bay Shallow | 2598 | DTASBH | 6/24/98 | 11:03:05 | 3.1 | 9 | 7.6 | 10.8 | 15.23 | 7.58 | 42.2 | 0.03 | 108.6 | 101 | 417 |
| Windy Bay Shallow | 2598 | DTASBH | 6/24/98 | 11:03:05 | 3.1 | 8 | 8.6 | 10.8 | 15.04 | 7.48 | 42 | 0.03 | 107.9 | 101 | 419 |
| Windy Bay Shallow | 2598 | DTASBH | 6/24/98 | 11:03:05 | 3.1 | 7 | 9.6 | 10.4 | 14.03 | 7.28 | 41.8 | 0.03 | 101.5 | 121 | 424 |
| Windy Bay Shallow | 2598 | DTASBH | 6/24/98 | 11:03:05 | 3.1 | 6 | 10.6 | 10.3 | 13.55 | 7.17 | 42 | 0.03 | 99.7 | 137 | 427 |
| Windy Bay Shallow | 2598 | DTASBH | 6/24/98 | 11:03:05 | 3.1 | 5 | 11.6 | 9.78 | 9.92 | 6.97 | 42.4 | 0.03 | 86.9 | 155 | 431 |
| Windy Bay Shallow | 2598 | DTASBH | 6/24/98 | 11:03:05 | 3.1 | 4 | 12.6 | 9.97 | 12.04 | 6.97 | 41.7 | 0.03 | 93.1 | 122 | 432 |
| Windy Bay Shallow | 2598 | DTASBH | 6/24/98 | 11:03:05 | 3.1 | 3 | 13.6 | 9.71 | 9.06 | 6.87 | 43.6 | 0.03 | 84.5 | 120 | 434 |
| Windy Bay Shallow | 2598 | DTASBH | 6/24/98 | 11:03:05 | 3.1 | 2 | 14.6 | 9.7 | 9.1 | 6.85 | 43.4 | 0.03 | 84.5 | 206 | 436 |
| Windy Bay Shallow | 2598 | DTASBH | 6/24/98 | 11:03:05 | 3.1 | 1 | 15.6 | 9.7 | 9.02 | 6.86 | 43.5 | 0.03 | 84.4 | 256 | 436 |

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|-------------------|------|--------|---------|---------|-----|----|------|------|-------|------|------|------|-------|-----|-----|--|--|
| | | | | | | | | | | | | | | | | | |
| Windy Bay Shallow | 2798 | ASDNBH | 7/8/98 | 9:04:55 | 3.1 | 16 | 0.4 | 9.83 | 21.33 | 7.89 | 46.5 | 0.03 | 110.8 | 134 | 323 | | |
| Windy Bay Shallow | 2798 | ASDNBH | 7/8/98 | 9:04:55 | 3.1 | 15 | 1.1 | 10.1 | 20.86 | 8 | 46.2 | 0.03 | 112.9 | 103 | 318 | | |
| Windy Bay Shallow | 2798 | ASDNBH | 7/8/98 | 9:04:55 | 3.1 | 14 | 2.1 | 10.1 | 20.67 | 8.04 | 46.3 | 0.03 | 112.2 | 50 | 318 | | |
| Windy Bay Shallow | 2798 | ASDNBH | 7/8/98 | 9:04:55 | 3.1 | 13 | 3.1 | 10.2 | 20.35 | 8.05 | 46 | 0.03 | 112.9 | 140 | 317 | | |
| Windy Bay Shallow | 2798 | ASDNBH | 7/8/98 | 9:04:55 | 3.1 | 12 | 4.1 | 10.5 | 19.59 | 8.17 | 45.9 | 0.03 | 113.9 | 114 | 314 | | |
| Windy Bay Shallow | 2798 | ASDNBH | 7/8/98 | 9:04:55 | 3.1 | 11 | 5.1 | 10.8 | 18.63 | 8.23 | 44.6 | 0.03 | 115 | 107 | 313 | | |
| Windy Bay Shallow | 2798 | ASDNBH | 7/8/98 | 9:04:55 | 3.1 | 10 | 6.1 | 10.9 | 17.86 | 8.27 | 44.4 | 0.03 | 115 | 57 | 313 | | |
| Windy Bay Shallow | 2798 | ASDNBH | 7/8/98 | 9:04:55 | 3.1 | 9 | 7.1 | 10.5 | 17.47 | 8.21 | 44 | 0.03 | 109.6 | 130 | 313 | | |
| Windy Bay Shallow | 2798 | ASDNBH | 7/8/98 | 9:04:55 | 3.1 | 8 | 8.1 | 10.8 | 17.1 | 8.05 | 44 | 0.03 | 112.2 | 122 | 316 | | |
| Windy Bay Shallow | 2798 | ASDNBH | 7/8/98 | 9:04:55 | 3.1 | 7 | 9.1 | 10.7 | 16.66 | 7.84 | 43.8 | 0.03 | 109.9 | 118 | 319 | | |
| Windy Bay Shallow | 2798 | ASDNBH | 7/8/98 | 9:04:55 | 3.1 | 6 | 10.1 | 10.5 | 16.39 | 7.63 | 43.6 | 0.03 | 107.2 | 126 | 322 | | |
| Windy Bay Shallow | 2798 | ASDNBH | 7/8/98 | 9:04:55 | 3.1 | 5 | 11.1 | 9.94 | 15.74 | 7.29 | 43.2 | 0.03 | 100 | 146 | 326 | | |
| Windy Bay Shallow | 2798 | ASDNBH | 7/8/98 | 9:04:55 | 3.1 | 4 | 12.1 | 9.73 | 15.22 | 7.16 | 43 | 0.03 | 96.7 | 112 | 326 | | |
| Windy Bay Shallow | 2798 | ASDNBH | 7/8/98 | 9:04:55 | 3.1 | 3 | 13.1 | 9.1 | 13.53 | 6.96 | 42 | 0.03 | 87.3 | 109 | 326 | | |
| Windy Bay Shallow | 2798 | ASDNBH | 7/8/98 | 9:04:55 | 3.1 | 2 | 14.1 | 9.03 | 12.89 | 6.93 | 41.4 | 0.03 | 85.3 | 153 | 323 | | |
| Windy Bay Shallow | 2798 | ASDNBH | 7/8/98 | 9:04:55 | 3.1 | 1 | 15.1 | 8.55 | 12.82 | 6.93 | 41.5 | 0.03 | 80.6 | 301 | 316 | | |
| | | | | | | | | | | | | | | | | | |
| Windy Bay Shallow | 2998 | ASBH | 7/20/98 | 10:30 | 6 | 15 | 0.4 | 9.71 | 20.91 | 7.89 | 50.9 | 0.03 | 108.4 | 116 | 399 | | |
| Windy Bay Shallow | 2998 | ASBH | 7/20/98 | 10:30 | 6 | 14 | 1.4 | 9.73 | 20.9 | 7.92 | 50.8 | 0.03 | 108.5 | 114 | 400 | | |
| Windy Bay Shallow | 2998 | ASBH | 7/20/98 | 10:30 | 6 | 13 | 2.4 | 9.81 | 20.49 | 7.94 | 50.7 | 0.03 | 108.6 | 23 | 401 | | |
| Windy Bay Shallow | 2998 | ASBH | 7/20/98 | 10:30 | 6 | 12 | 3.4 | 9.93 | 20.13 | 7.97 | 50.3 | 0.03 | 109.2 | 33 | 402 | | |
| Windy Bay Shallow | 2998 | ASBH | 7/20/98 | 10:30 | 6 | 11 | 4.4 | 10.1 | 19.76 | 8.09 | 50.1 | 0.03 | 110.4 | 112 | 402 | | |
| Windy Bay Shallow | 2998 | ASBH | 7/20/98 | 10:30 | 6 | 10 | 5.4 | 10.3 | 19.18 | 7.94 | 49.5 | 0.03 | 110.5 | 25 | 407 | | |
| Windy Bay Shallow | 2998 | ASBH | 7/20/98 | 10:30 | 6 | 9 | 6.4 | 10.3 | 18.8 | 7.8 | 49 | 0.03 | 110.7 | 36 | 412 | | |
| Windy Bay Shallow | 2998 | ASBH | 7/20/98 | 10:30 | 6 | 8 | 7.4 | 10.2 | 18.39 | 7.63 | 48.7 | 0.03 | 108.3 | 112 | 418 | | |
| Windy Bay Shallow | 2998 | ASBH | 7/20/98 | 10:30 | 6 | 7 | 8.4 | 10.4 | 17.96 | 7.58 | 48.2 | 0.03 | 109.3 | 117 | 420 | | |
| Windy Bay Shallow | 2998 | ASBH | 7/20/98 | 10:30 | 6 | 6 | 9.4 | 10.6 | 17.34 | 7.58 | 47.6 | 0.03 | 109.7 | 111 | 422 | | |
| Windy Bay Shallow | 2998 | ASBH | 7/20/98 | 10:30 | 6 | 5 | 10.4 | 10.5 | 17.07 | 7.49 | 47.8 | 0.03 | 108.6 | 112 | 426 | | |
| Windy Bay Shallow | 2998 | ASBH | 7/20/98 | 10:30 | 6 | 4 | 11.4 | 10.5 | 16.78 | 7.31 | 47.6 | 0.03 | 107.3 | 55 | 430 | | |
| Windy Bay Shallow | 2998 | ASBH | 7/20/98 | 10:30 | 6 | 3 | 12.4 | 9.92 | 16.17 | 7.08 | 47 | 0.03 | 100.5 | 100 | 435 | | |
| Windy Bay Shallow | 2998 | ASBH | 7/20/98 | 10:30 | 6 | 2 | 13.4 | 8.85 | 14.16 | 6.8 | 46.8 | 0.03 | 85.9 | 117 | 440 | | |
| Windy Bay Shallow | 2998 | ASBH | 7/20/98 | 10:30 | 6 | 1 | 14.4 | 7.95 | 11.31 | 6.61 | 46.4 | 0.03 | 72.4 | 238 | 444 | | |
| | | | | | | | | | | | | | | | | | |
| Windy Bay Shallow | 3298 | DBAS | 8/10/98 | 9:29:19 | 7.9 | 17 | 0.4 | 8.85 | 23.46 | 7.74 | 55.6 | 0.04 | 103.6 | 21 | 383 | | |
| Windy Bay Shallow | 3298 | DBAS | 8/10/98 | 9:29:19 | 7.9 | 16 | 0.9 | 8.85 | 23.46 | 7.75 | 55.5 | 0.04 | 103.6 | 39 | 383 | | |
| Windy Bay Shallow | 3298 | DBAS | 8/10/98 | 9:29:19 | 7.9 | 15 | 1.9 | 8.86 | 23.42 | 7.74 | 55.6 | 0.04 | 103.7 | 54 | 385 | | |
| Windy Bay Shallow | 3298 | DBAS | 8/10/98 | 9:29:19 | 7.9 | 14 | 2.9 | 8.86 | 23.4 | 7.7 | 55.5 | 0.04 | 103.6 | 35 | 387 | | |
| Windy Bay Shallow | 3298 | DBAS | 8/10/98 | 9:29:19 | 7.9 | 13 | 3.9 | 8.85 | 23.37 | 7.67 | 55.5 | 0.04 | 103.5 | 104 | 391 | | |
| Windy Bay Shallow | 3298 | DBAS | 8/10/98 | 9:29:19 | 7.9 | 12 | 4.9 | 8.85 | 23.37 | 7.66 | 55.5 | 0.04 | 103.4 | 105 | 392 | | |
| Windy Bay Shallow | 3298 | DBAS | 8/10/98 | 9:29:19 | 7.9 | 11 | 5.9 | 8.85 | 23.33 | 7.64 | 55.4 | 0.04 | 103.4 | 114 | 395 | | |
| Windy Bay Shallow | 3298 | DBAS | 8/10/98 | 9:29:19 | 7.9 | 10 | 6.9 | 8.85 | 23.31 | 7.6 | 55.4 | 0.04 | 103.3 | 57 | 398 | | |
| Windy Bay Shallow | 3298 | DBAS | 8/10/98 | 9:29:19 | 7.9 | 9 | 7.9 | 8.91 | 22.92 | 7.5 | 54.7 | 0.04 | 103.3 | 104 | 403 | | |
| Windy Bay Shallow | 3298 | DBAS | 8/10/98 | 9:29:19 | 7.9 | 8 | 8.9 | 9.09 | 22.02 | 7.39 | 53.6 | 0.03 | 103.5 | 122 | 407 | | |

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|-------------------|------|------|---------|----------|-----|----|------|------|-------|------|------|------|-------|-----|-----|
| Windy Bay Shallow | 3298 | DBAS | 8/10/98 | 9:29:19 | 7.9 | 7 | 9.9 | 9.28 | 20.27 | 7.23 | 50.9 | 0.03 | 102.2 | 122 | 414 |
| Windy Bay Shallow | 3298 | DBAS | 8/10/98 | 9:29:19 | 7.9 | 6 | 10.9 | 9.69 | 16.98 | 7.06 | 48.1 | 0.03 | 99.9 | 101 | 420 |
| Windy Bay Shallow | 3298 | DBAS | 8/10/98 | 9:29:19 | 7.9 | 5 | 11.9 | 9.83 | 14.71 | 6.95 | 47.1 | 0.03 | 96.5 | 102 | 424 |
| Windy Bay Shallow | 3298 | DBAS | 8/10/98 | 9:29:19 | 7.9 | 4 | 12.9 | 8.9 | 13.37 | 6.78 | 47 | 0.03 | 84.8 | 115 | 430 |
| Windy Bay Shallow | 3298 | DBAS | 8/10/98 | 9:29:19 | 7.9 | 3 | 13.9 | 8.24 | 12.62 | 6.65 | 47.2 | 0.03 | 77.2 | 101 | 434 |
| Windy Bay Shallow | 3298 | DBAS | 8/10/98 | 9:29:19 | 7.9 | 2 | 14.9 | 8.24 | 11.49 | 6.6 | 46.9 | 0.03 | 75.2 | 59 | 435 |
| Windy Bay Shallow | 3298 | DBAS | 8/10/98 | 9:29:19 | 7.9 | 1 | 15.9 | 7.59 | 10.59 | 6.53 | 48 | 0.03 | 67.8 | 226 | 438 |
| | | | | | | | | | | | | | | | |
| Windy Bay Shallow | 3498 | DTAS | 8/24/98 | 12:44:32 | 9 | 22 | 0.3 | 9.11 | 21.99 | 7.78 | 55.7 | 0.04 | 104 | 123 | 345 |
| Windy Bay Shallow | 3498 | DTAS | 8/24/98 | 12:44:32 | 9 | 21 | 1.5 | 9.09 | 21.79 | 7.81 | 55.5 | 0.04 | 103.4 | 131 | 346 |
| Windy Bay Shallow | 3498 | DTAS | 8/24/98 | 12:44:32 | 9 | 20 | 2.2 | 9.19 | 21.3 | 7.83 | 55.5 | 0.04 | 103.6 | 157 | 346 |
| Windy Bay Shallow | 3498 | DTAS | 8/24/98 | 12:44:32 | 9 | 19 | 3 | 9.2 | 21.18 | 7.82 | 55.6 | 0.04 | 103.4 | 119 | 347 |
| Windy Bay Shallow | 3498 | DTAS | 8/24/98 | 12:44:32 | 9 | 18 | 3.7 | 9.2 | 21.09 | 7.81 | 55.6 | 0.04 | 103.2 | 150 | 349 |
| Windy Bay Shallow | 3498 | DTAS | 8/24/98 | 12:44:32 | 9 | 17 | 4.5 | 9.19 | 21.04 | 7.78 | 55.6 | 0.04 | 103.1 | 48 | 350 |
| Windy Bay Shallow | 3498 | DTAS | 8/24/98 | 12:44:32 | 9 | 16 | 5.2 | 9.18 | 20.98 | 7.76 | 55.7 | 0.04 | 102.8 | 111 | 351 |
| Windy Bay Shallow | 3498 | DTAS | 8/24/98 | 12:44:32 | 9 | 15 | 6 | 9.15 | 20.97 | 7.72 | 55.3 | 0.04 | 102.4 | 122 | 352 |
| Windy Bay Shallow | 3498 | DTAS | 8/24/98 | 12:44:32 | 9 | 14 | 6.7 | 9.13 | 20.95 | 7.72 | 55.1 | 0.04 | 102.2 | 100 | 351 |
| Windy Bay Shallow | 3498 | DTAS | 8/24/98 | 12:44:32 | 9 | 13 | 7.5 | 9.11 | 20.9 | 7.68 | 55.6 | 0.04 | 101.8 | 207 | 352 |
| Windy Bay Shallow | 3498 | DTAS | 8/24/98 | 12:44:32 | 9 | 12 | 8.2 | 9.12 | 20.86 | 7.66 | 55.3 | 0.04 | 101.9 | 136 | 353 |
| Windy Bay Shallow | 3498 | DTAS | 8/24/98 | 12:44:32 | 9 | 11 | 9 | 9.06 | 20.84 | 7.59 | 55.1 | 0.04 | 101.2 | 57 | 356 |
| Windy Bay Shallow | 3498 | DTAS | 8/24/98 | 12:44:32 | 9 | 10 | 9.7 | 8.91 | 20.62 | 7.46 | 55.3 | 0.04 | 99.1 | 113 | 359 |
| Windy Bay Shallow | 3498 | DTAS | 8/24/98 | 12:44:32 | 9 | 8 | 10.5 | 8.49 | 20.15 | 7.29 | 54.9 | 0.04 | 93.5 | 154 | 363 |
| Windy Bay Shallow | 3498 | DTAS | 8/24/98 | 12:44:32 | 9 | 7 | 11.2 | 9.51 | 17.23 | 7.08 | 49.4 | 0.03 | 98.8 | 147 | 369 |
| Windy Bay Shallow | 3498 | DTAS | 8/24/98 | 12:44:32 | 9 | 6 | 12 | 9.7 | 15.97 | 7.07 | 47.5 | 0.03 | 98.1 | 140 | 369 |
| Windy Bay Shallow | 3498 | DTAS | 8/24/98 | 12:44:32 | 9 | 5 | 12.7 | 9.79 | 15.57 | 7.07 | 47.1 | 0.03 | 98.1 | 240 | 368 |
| Windy Bay Shallow | 3498 | DTAS | 8/24/98 | 12:44:32 | 9 | 4 | 13.5 | 9.85 | 15.01 | 7.03 | 46.6 | 0.03 | 97.6 | 150 | 368 |
| Windy Bay Shallow | 3498 | DTAS | 8/24/98 | 12:44:32 | 9 | 3 | 14.2 | 8.71 | 14.41 | 6.88 | 47.6 | 0.03 | 85.1 | 126 | 370 |
| Windy Bay Shallow | 3498 | DTAS | 8/24/98 | 12:44:32 | 9 | 2 | 15 | 8.17 | 13.71 | 6.85 | 47.9 | 0.03 | 78.7 | 221 | 369 |
| Windy Bay Shallow | 3498 | DTAS | 8/24/98 | 12:44:32 | 9 | 1 | 15.7 | 8.39 | 13.46 | 6.92 | 46.9 | 0.03 | 80.3 | 116 | 365 |
| | | | | | | | | | | | | | | | |
| Windy Bay Shallow | 3598 | DTAS | 9/2/98 | 13:02:24 | 8.2 | 17 | 0.3 | 9.07 | 21.51 | 7.79 | 55.7 | 0.04 | 102.9 | 28 | 336 |
| Windy Bay Shallow | 3598 | DTAS | 9/2/98 | 13:02:24 | 8.2 | 16 | 1.2 | 9.07 | 21.48 | 7.79 | 55.7 | 0.04 | 102.8 | 50 | 336 |
| Windy Bay Shallow | 3598 | DTAS | 9/2/98 | 13:02:24 | 8.2 | 15 | 2.2 | 9.07 | 21.39 | 7.83 | 55.6 | 0.04 | 102.7 | 48 | 334 |
| Windy Bay Shallow | 3598 | DTAS | 9/2/98 | 13:02:24 | 8.2 | 14 | 3.2 | 9.08 | 21.37 | 7.78 | 55.5 | 0.04 | 102.7 | 113 | 337 |
| Windy Bay Shallow | 3598 | DTAS | 9/2/98 | 13:02:24 | 8.2 | 13 | 4.2 | 9.08 | 21.35 | 7.8 | 55.6 | 0.04 | 102.7 | 104 | 336 |
| Windy Bay Shallow | 3598 | DTAS | 9/2/98 | 13:02:24 | 8.2 | 12 | 5.2 | 9.09 | 21.33 | 7.76 | 55.6 | 0.04 | 102.8 | 103 | 339 |
| Windy Bay Shallow | 3598 | DTAS | 9/2/98 | 13:02:24 | 8.2 | 11 | 6.2 | 9.08 | 21.33 | 7.75 | 55.6 | 0.04 | 102.7 | 119 | 339 |
| Windy Bay Shallow | 3598 | DTAS | 9/2/98 | 13:02:24 | 8.2 | 10 | 7.2 | 9.1 | 21.3 | 7.7 | 55.4 | 0.04 | 102.8 | 121 | 343 |
| Windy Bay Shallow | 3598 | DTAS | 9/2/98 | 13:02:24 | 8.2 | 9 | 8.2 | 9.1 | 21.29 | 7.64 | 55.7 | 0.04 | 102.8 | 117 | 346 |
| Windy Bay Shallow | 3598 | DTAS | 9/2/98 | 13:02:24 | 8.2 | 8 | 9.2 | 9.07 | 21.17 | 7.49 | 55.5 | 0.04 | 102.2 | 108 | 353 |
| Windy Bay Shallow | 3598 | DTAS | 9/2/98 | 13:02:24 | 8.2 | 7 | 10.2 | 8.53 | 19.93 | 7.17 | 53.5 | 0.03 | 93.8 | 114 | 363 |
| Windy Bay Shallow | 3598 | DTAS | 9/2/98 | 13:02:24 | 8.2 | 6 | 11.2 | 9.17 | 17.05 | 6.92 | 46.9 | 0.03 | 95.1 | 100 | 371 |
| Windy Bay Shallow | 3598 | DTAS | 9/2/98 | 13:02:24 | 8.2 | 5 | 12.2 | 8.61 | 14.96 | 6.81 | 46.5 | 0.03 | 85.4 | 114 | 373 |
| Windy Bay Shallow | 3598 | DTAS | 9/2/98 | 13:02:24 | 8.2 | 4 | 13.2 | 8.52 | 13.46 | 6.73 | 45.8 | 0.03 | 81.8 | 122 | 376 |

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|-------------------|------|--------|----------|----------|-----|----|------|------|-------|------|------|------|------|-----|-----|
| Windy Bay Shallow | 3598 | DTAS | 9/2/98 | 13:02:24 | 8.2 | 3 | 14.2 | 7.79 | 12.25 | 6.62 | 45.9 | 0.03 | 72.8 | 141 | 379 |
| Windy Bay Shallow | 3598 | DTAS | 9/2/98 | 13:02:24 | 8.2 | 2 | 15.2 | 7.39 | 11.21 | 6.55 | 46.3 | 0.03 | 67.4 | 130 | 382 |
| Windy Bay Shallow | 3598 | DTAS | 9/2/98 | 13:02:24 | 8.2 | 1 | 16.2 | 6.13 | 11.11 | 6.49 | 46.5 | 0.03 | 55.8 | 856 | 383 |
| Windy Bay Shallow | 3998 | ASKB | 9/30/98 | 11:21:17 | 8.5 | 16 | 0.2 | 9.32 | 18 | 7.7 | 54.9 | 0.04 | 98.2 | 151 | 348 |
| Windy Bay Shallow | 3998 | ASKB | 9/30/98 | 11:21:17 | 8.5 | 15 | 1.1 | 9.27 | 18.1 | 7.75 | 57.7 | 0.04 | 98 | 49 | 349 |
| Windy Bay Shallow | 3998 | ASKB | 9/30/98 | 11:21:17 | 8.5 | 14 | 2.1 | 9.27 | 18.03 | 7.73 | 57.8 | 0.04 | 97.8 | 47 | 350 |
| Windy Bay Shallow | 3998 | ASKB | 9/30/98 | 11:21:17 | 8.5 | 13 | 3.1 | 9.26 | 17.98 | 7.69 | 58.1 | 0.04 | 97.7 | 52 | 353 |
| Windy Bay Shallow | 3998 | ASKB | 9/30/98 | 11:21:17 | 8.5 | 12 | 4.1 | 9.28 | 17.95 | 7.69 | 58.1 | 0.04 | 97.8 | 35 | 352 |
| Windy Bay Shallow | 3998 | ASKB | 9/30/98 | 11:21:17 | 8.5 | 11 | 5.1 | 9.26 | 17.95 | 7.67 | 58.1 | 0.04 | 97.6 | 53 | 354 |
| Windy Bay Shallow | 3998 | ASKB | 9/30/98 | 11:21:17 | 8.5 | 10 | 6.1 | 9.26 | 17.95 | 7.66 | 57.7 | 0.04 | 97.5 | 33 | 354 |
| Windy Bay Shallow | 3998 | ASKB | 9/30/98 | 11:21:17 | 8.5 | 9 | 7.1 | 9.26 | 17.93 | 7.66 | 57.8 | 0.04 | 97.5 | 53 | 354 |
| Windy Bay Shallow | 3998 | ASKB | 9/30/98 | 11:21:17 | 8.5 | 8 | 8.1 | 9.26 | 17.93 | 7.65 | 58.2 | 0.04 | 97.5 | 103 | 354 |
| Windy Bay Shallow | 3998 | ASKB | 9/30/98 | 11:21:17 | 8.5 | 7 | 9.1 | 9.25 | 17.93 | 7.63 | 57.7 | 0.04 | 97.4 | 38 | 356 |
| Windy Bay Shallow | 3998 | ASKB | 9/30/98 | 11:21:17 | 8.5 | 6 | 10.1 | 9.24 | 17.91 | 7.63 | 57.6 | 0.04 | 97.3 | 50 | 356 |
| Windy Bay Shallow | 3998 | ASKB | 9/30/98 | 11:21:17 | 8.5 | 5 | 11.1 | 9.23 | 17.91 | 7.61 | 57.9 | 0.04 | 97.2 | 129 | 356 |
| Windy Bay Shallow | 3998 | ASKB | 9/30/98 | 11:21:17 | 8.5 | 4 | 12.1 | 9.23 | 17.9 | 7.57 | 57.9 | 0.04 | 97.1 | 114 | 358 |
| Windy Bay Shallow | 3998 | ASKB | 9/30/98 | 11:21:17 | 8.5 | 3 | 13.1 | 9.18 | 17.86 | 7.5 | 58.2 | 0.04 | 96.5 | 108 | 359 |
| Windy Bay Shallow | 3998 | ASKB | 9/30/98 | 11:21:17 | 8.5 | 2 | 14.1 | 9.15 | 17.74 | 7.42 | 58.8 | 0.04 | 96 | 102 | 363 |
| Windy Bay Shallow | 3998 | ASKB | 9/30/98 | 11:21:17 | 8.5 | 1 | 15.1 | 8.18 | 16.38 | 7.19 | 56.7 | 0.04 | 83.4 | 17 | 368 |
| Windy Bay Shallow | 4298 | DTASKB | 10/20/98 | 10:40:14 | 7.1 | 16 | 0.4 | 9.33 | 13.06 | 7.41 | 53.4 | 0.03 | 87.5 | 29 | 347 |
| Windy Bay Shallow | 4298 | DTASKB | 10/20/98 | 10:40:14 | 7.1 | 15 | 1 | 9.31 | 13.04 | 7.4 | 53.4 | 0.03 | 87.4 | 36 | 348 |
| Windy Bay Shallow | 4298 | DTASKB | 10/20/98 | 10:40:14 | 7.1 | 14 | 2 | 9.34 | 13.02 | 7.44 | 53.4 | 0.03 | 87.6 | 39 | 346 |
| Windy Bay Shallow | 4298 | DTASKB | 10/20/98 | 10:40:14 | 7.1 | 13 | 3 | 9.36 | 13.02 | 7.41 | 53.3 | 0.03 | 87.8 | 39 | 348 |
| Windy Bay Shallow | 4298 | DTASKB | 10/20/98 | 10:40:14 | 7.1 | 12 | 4 | 9.33 | 13.01 | 7.4 | 53.4 | 0.03 | 87.5 | 26 | 349 |
| Windy Bay Shallow | 4298 | DTASKB | 10/20/98 | 10:40:14 | 7.1 | 11 | 5 | 9.36 | 12.99 | 7.42 | 53.4 | 0.03 | 87.7 | 21 | 347 |
| Windy Bay Shallow | 4298 | DTASKB | 10/20/98 | 10:40:14 | 7.1 | 10 | 6 | 9.34 | 12.99 | 7.41 | 53.2 | 0.03 | 87.5 | 51 | 348 |
| Windy Bay Shallow | 4298 | DTASKB | 10/20/98 | 10:40:14 | 7.1 | 9 | 7 | 9.35 | 12.97 | 7.4 | 53.2 | 0.03 | 87.5 | 48 | 348 |
| Windy Bay Shallow | 4298 | DTASKB | 10/20/98 | 10:40:14 | 7.1 | 8 | 8 | 9.34 | 12.96 | 7.39 | 53.2 | 0.03 | 87.5 | 34 | 348 |
| Windy Bay Shallow | 4298 | DTASKB | 10/20/98 | 10:40:14 | 7.1 | 7 | 9 | 9.34 | 12.96 | 7.39 | 53.1 | 0.03 | 87.5 | 38 | 348 |
| Windy Bay Shallow | 4298 | DTASKB | 10/20/98 | 10:40:14 | 7.1 | 6 | 10 | 9.34 | 12.94 | 7.4 | 53.5 | 0.03 | 87.4 | 34 | 347 |
| Windy Bay Shallow | 4298 | DTASKB | 10/20/98 | 10:40:14 | 7.1 | 5 | 11 | 9.35 | 12.94 | 7.39 | 53.2 | 0.03 | 87.5 | 37 | 347 |
| Windy Bay Shallow | 4298 | DTASKB | 10/20/98 | 10:40:14 | 7.1 | 4 | 12 | 9.34 | 12.94 | 7.39 | 53.5 | 0.03 | 87.4 | 44 | 347 |
| Windy Bay Shallow | 4298 | DTASKB | 10/20/98 | 10:40:14 | 7.1 | 3 | 13 | 9.35 | 12.94 | 7.38 | 53.1 | 0.03 | 87.5 | 39 | 347 |
| Windy Bay Shallow | 4298 | DTASKB | 10/20/98 | 10:40:14 | 7.1 | 2 | 14 | 9.34 | 12.94 | 7.38 | 53.4 | 0.03 | 87.4 | 114 | 346 |
| Windy Bay Shallow | 4298 | DTASKB | 10/20/98 | 10:40:14 | 7.1 | 1 | 15 | 9.33 | 12.92 | 7.37 | 53.5 | 0.03 | 87.3 | 311 | 351 |
| Windy Bay Shallow | 4598 | KB AS | 11/12/98 | 11:22:39 | 8 | 15 | 0.5 | 8.61 | 10.05 | 7.31 | 53.3 | 0.03 | 75.9 | 52 | 375 |
| Windy Bay Shallow | 4598 | KB AS | 11/12/98 | 11:22:39 | 8 | 14 | 1.5 | 8.6 | 10.07 | 7.33 | 53.4 | 0.03 | 75.8 | 42 | 375 |
| Windy Bay Shallow | 4598 | KB AS | 11/12/98 | 11:22:39 | 8 | 13 | 2.5 | 8.6 | 10.07 | 7.32 | 53.3 | 0.03 | 75.8 | 37 | 375 |
| Windy Bay Shallow | 4598 | KB AS | 11/12/98 | 11:22:39 | 8 | 12 | 3.5 | 8.59 | 10.07 | 7.3 | 53.2 | 0.03 | 75.7 | 111 | 376 |
| Windy Bay Shallow | 4598 | KB AS | 11/12/98 | 11:22:39 | 8 | 11 | 4.5 | 8.6 | 10.07 | 7.31 | 53.2 | 0.03 | 75.8 | 46 | 375 |
| Windy Bay Shallow | 4598 | KB AS | 11/12/98 | 11:22:39 | 8 | 10 | 5.5 | 8.59 | 10.07 | 7.3 | 53.2 | 0.03 | 75.7 | 50 | 376 |

| | | | | | | | | | | | | | | | |
|-------------------|------|-------|----------|----------|---|---|------|------|-------|------|------|------|------|------|-----|
| Windy Bay Shallow | 4598 | KB AS | 11/12/98 | 11:22:39 | 8 | 9 | 6.5 | 8.59 | 10.07 | 7.29 | 53.1 | 0.03 | 75.7 | 49 | 376 |
| Windy Bay Shallow | 4598 | KB AS | 11/12/98 | 11:22:39 | 8 | 8 | 7.6 | 8.59 | 10.07 | 7.27 | 53 | 0.03 | 75.7 | 41 | 378 |
| Windy Bay Shallow | 4598 | KB AS | 11/12/98 | 11:22:39 | 8 | 7 | 8.5 | 8.59 | 10.05 | 7.29 | 53.1 | 0.03 | 75.7 | 36 | 377 |
| Windy Bay Shallow | 4598 | KB AS | 11/12/98 | 11:22:39 | 8 | 6 | 9.5 | 8.58 | 10.04 | 7.3 | 53.3 | 0.03 | 75.6 | 36 | 376 |
| Windy Bay Shallow | 4598 | KB AS | 11/12/98 | 11:22:39 | 8 | 5 | 10.5 | 8.58 | 10.02 | 7.29 | 53.5 | 0.03 | 75.5 | 36 | 377 |
| Windy Bay Shallow | 4598 | KB AS | 11/12/98 | 11:22:39 | 8 | 4 | 11.5 | 8.58 | 10.02 | 7.29 | 53.1 | 0.03 | 75.5 | 37 | 377 |
| Windy Bay Shallow | 4598 | KB AS | 11/12/98 | 11:22:39 | 8 | 3 | 12.5 | 8.57 | 10.02 | 7.3 | 53.3 | 0.03 | 75.4 | 105 | 377 |
| Windy Bay Shallow | 4598 | KB AS | 11/12/98 | 11:22:39 | 8 | 2 | 13.4 | 8.56 | 9.99 | 7.29 | 53.2 | 0.03 | 75.3 | 35 | 377 |
| Windy Bay Shallow | 4598 | KB AS | 11/12/98 | 11:22:39 | 8 | 1 | 14.5 | 8.55 | 9.73 | 7.31 | 53.8 | 0.03 | 74.7 | 1114 | 377 |

| Location | Phase | Samplers | Date | Time | Secchi (m) | Sequence | Depth (m) | Dissolved Oxygen (mg/L) | Temperature (C) | pH | Conductivity (μs/cm) | TDS | Saturated Dissolved Oxygen | Stabilization Time | Redox |
|----------------|-------|----------|---------|----------|------------|----------|-----------|-------------------------|-----------------|------|----------------------|------|----------------------------|--------------------|-------|
| Windy Bay Deep | 1098 | DBRP | 3/13/98 | 11:09:06 | 2.5 | 16 | 0.3 | 13.02 | 3.89 | 7 | 52.1 | 0.03 | 98.2 | 55 | 394 |
| Windy Bay Deep | 1098 | DBRP | 3/13/98 | 11:09:06 | 2.5 | 15 | 1.2 | 13.11 | 3.74 | 7.05 | 52 | 0.03 | 98.5 | 215 | 396 |
| Windy Bay Deep | 1098 | DBRP | 3/13/98 | 11:09:06 | 2.5 | 14 | 3.2 | 13.19 | 3.73 | 7.04 | 52 | 0.03 | 99.1 | 131 | 398 |
| Windy Bay Deep | 1098 | DBRP | 3/13/98 | 11:09:06 | 2.5 | 13 | 5.2 | 13.18 | 3.73 | 7.02 | 52.1 | 0.03 | 99 | 213 | 398 |
| Windy Bay Deep | 1098 | DBRP | 3/13/98 | 11:09:06 | 2.5 | 12 | 7.2 | 13.12 | 3.69 | 7.01 | 52.2 | 0.03 | 98.5 | 139 | 398 |
| Windy Bay Deep | 1098 | DBRP | 3/13/98 | 11:09:06 | 2.5 | 11 | 9.2 | 13.14 | 3.69 | 7.03 | 52.1 | 0.03 | 98.6 | 147 | 395 |
| Windy Bay Deep | 1098 | DBRP | 3/13/98 | 11:09:06 | 2.5 | 10 | 11.2 | 13.12 | 3.74 | 7.02 | 52.2 | 0.03 | 98.7 | 205 | 395 |
| Windy Bay Deep | 1098 | DBRP | 3/13/98 | 11:09:06 | 2.5 | 9 | 13.2 | 13.14 | 3.69 | 6.98 | 52.2 | 0.03 | 98.6 | 335 | 397 |
| Windy Bay Deep | 1098 | DBRP | 3/13/98 | 11:09:06 | 2.5 | 8 | 15.2 | 13.13 | 3.71 | 6.99 | 52.1 | 0.03 | 98.6 | 224 | 394 |
| Windy Bay Deep | 1098 | DBRP | 3/13/98 | 11:09:06 | 2.5 | 7 | 17.2 | 13.16 | 3.71 | 7 | 52.1 | 0.03 | 98.8 | 133 | 392 |
| Windy Bay Deep | 1098 | DBRP | 3/13/98 | 11:09:06 | 2.5 | 6 | 19.2 | 13.12 | 3.69 | 6.95 | 52.1 | 0.03 | 98.5 | 129 | 393 |
| Windy Bay Deep | 1098 | DBRP | 3/13/98 | 11:09:06 | 2.5 | 5 | 21.2 | 13.1 | 3.73 | 6.93 | 52.1 | 0.03 | 98.5 | 136 | 393 |
| Windy Bay Deep | 1098 | DBRP | 3/13/98 | 11:09:06 | 2.5 | 4 | 23.2 | 13.1 | 3.78 | 6.93 | 52.2 | 0.03 | 98.6 | 224 | 391 |
| Windy Bay Deep | 1098 | DBRP | 3/13/98 | 11:09:06 | 2.5 | 3 | 25.2 | 13.15 | 3.79 | 6.92 | 52.1 | 0.03 | 99 | 142 | 389 |
| Windy Bay Deep | 1098 | DBRP | 3/13/98 | 11:09:06 | 2.5 | 2 | 27.2 | 13.17 | 3.86 | 6.91 | 52.1 | 0.03 | 99.3 | 139 | 388 |
| Windy Bay Deep | 1098 | DBRP | 3/13/98 | 11:09:06 | 2.5 | 1 | 29.2 | 13.29 | 3.83 | 6.87 | 52.3 | 0.03 | 100.1 | 137 | 388 |
| Windy Bay Deep | 1498 | DBAS | 4/8/98 | 11:26:34 | 3 | 15 | 0.5 | 12.87 | 5.77 | 7.06 | 51.5 | 0.03 | 102.9 | 201 | 421 |
| Windy Bay Deep | 1498 | DBAS | 4/8/98 | 11:26:34 | 3 | 14 | 2.5 | 12.92 | 5.64 | 7.01 | 51.5 | 0.03 | 102.9 | 246 | 425 |
| Windy Bay Deep | 1498 | DBAS | 4/8/98 | 11:26:34 | 3 | 13 | 4.6 | 12.82 | 5.49 | 7.05 | 51.6 | 0.03 | 101.7 | 200 | 423 |
| Windy Bay Deep | 1498 | DBAS | 4/8/98 | 11:26:34 | 3 | 12 | 6.5 | 12.76 | 5.36 | 7.08 | 51.6 | 0.03 | 100.9 | 102 | 420 |
| Windy Bay Deep | 1498 | DBAS | 4/8/98 | 11:26:34 | 3 | 11 | 8.6 | 12.68 | 5.29 | 7.03 | 51.5 | 0.03 | 100 | 103 | 422 |
| Windy Bay Deep | 1498 | DBAS | 4/8/98 | 11:26:34 | 3 | 10 | 10.5 | 12.68 | 5.08 | 6.99 | 51.6 | 0.03 | 99.5 | 115 | 423 |
| Windy Bay Deep | 1498 | DBAS | 4/8/98 | 11:26:34 | 3 | 9 | 12.5 | 12.63 | 5.04 | 7 | 51.7 | 0.03 | 99.1 | 217 | 422 |
| Windy Bay Deep | 1498 | DBAS | 4/8/98 | 11:26:34 | 3 | 8 | 14.6 | 12.67 | 5.01 | 7.02 | 52 | 0.03 | 99.3 | 206 | 420 |
| Windy Bay Deep | 1498 | DBAS | 4/8/98 | 11:26:34 | 3 | 7 | 16.6 | 12.65 | 4.91 | 6.97 | 52.1 | 0.03 | 98.8 | 100 | 421 |
| Windy Bay Deep | 1498 | DBAS | 4/8/98 | 11:26:34 | 3 | 6 | 18.5 | 12.65 | 4.76 | 6.96 | 52.1 | 0.03 | 98.5 | 117 | 421 |
| Windy Bay Deep | 1498 | DBAS | 4/8/98 | 11:26:34 | 3 | 5 | 20.6 | 12.64 | 4.76 | 6.99 | 52.1 | 0.03 | 98.4 | 133 | 418 |
| Windy Bay Deep | 1498 | DBAS | 4/8/98 | 11:26:34 | 3 | 4 | 22.5 | 12.64 | 4.71 | 6.99 | 52.4 | 0.03 | 98.3 | 116 | 417 |
| Windy Bay Deep | 1498 | DBAS | 4/8/98 | 11:26:34 | 3 | 3 | 24.5 | 12.6 | 4.71 | 6.96 | 52.3 | 0.03 | 98 | 110 | 417 |
| Windy Bay Deep | 1498 | DBAS | 4/8/98 | 11:26:34 | 3 | 2 | 26.5 | 12.46 | 4.69 | 6.96 | 52.8 | 0.03 | 96.8 | 141 | 415 |

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|----------------|------|--------|---------|----------|-----|----|------|-------|-------|------|------|------|-------|-----|-----|
| Windy Bay Deep | 1498 | DBAS | 4/8/98 | 11:26:34 | 3 | 1 | 28.5 | 12.46 | 4.69 | 6.96 | 53 | 0.03 | 96.8 | 217 | 413 |
| Windy Bay Deep | 1698 | DBASRP | 4/23/98 | 8:48:30 | 3.1 | 15 | 0.3 | 12.4 | 6.79 | 6.97 | 48.5 | 0.03 | 103.1 | 43 | 444 |
| Windy Bay Deep | 1698 | DBASRP | 4/23/98 | 8:48:30 | 3.1 | 14 | 1.4 | 12.3 | 6.59 | 7.03 | 48.4 | 0.03 | 101.8 | 58 | 441 |
| Windy Bay Deep | 1698 | DBASRP | 4/23/98 | 8:48:30 | 3.1 | 13 | 3.4 | 12.22 | 6.81 | 6.99 | 48.4 | 0.03 | 101.7 | 100 | 443 |
| Windy Bay Deep | 1698 | DBASRP | 4/23/98 | 8:48:30 | 3.1 | 12 | 5.5 | 12.27 | 6.63 | 6.98 | 48.4 | 0.03 | 101.6 | 49 | 444 |
| Windy Bay Deep | 1698 | DBASRP | 4/23/98 | 8:48:30 | 3.1 | 11 | 7.7 | 12.3 | 6.56 | 6.95 | 48.5 | 0.03 | 101.7 | 125 | 445 |
| Windy Bay Deep | 1698 | DBASRP | 4/23/98 | 8:48:30 | 3.1 | 10 | 9.6 | 12.27 | 6.33 | 6.95 | 48.4 | 0.03 | 100.8 | 138 | 444 |
| Windy Bay Deep | 1698 | DBASRP | 4/23/98 | 8:48:30 | 3.1 | 9 | 11.8 | 12.21 | 6.13 | 6.92 | 48.5 | 0.03 | 99.9 | 150 | 445 |
| Windy Bay Deep | 1698 | DBASRP | 4/23/98 | 8:48:30 | 3.1 | 8 | 13.8 | 12.12 | 5.85 | 6.89 | 48.9 | 0.03 | 98.5 | 122 | 446 |
| Windy Bay Deep | 1698 | DBASRP | 4/23/98 | 8:48:30 | 3.1 | 7 | 15.8 | 11.96 | 5.34 | 6.8 | 50 | 0.03 | 95.9 | 110 | 449 |
| Windy Bay Deep | 1698 | DBASRP | 4/23/98 | 8:48:30 | 3.1 | 6 | 17.7 | 11.96 | 5.17 | 6.8 | 50.1 | 0.03 | 95.4 | 107 | 449 |
| Windy Bay Deep | 1698 | DBASRP | 4/23/98 | 8:48:30 | 3.1 | 5 | 19.6 | 11.98 | 4.88 | 6.8 | 50.1 | 0.03 | 94.9 | 133 | 449 |
| Windy Bay Deep | 1698 | DBASRP | 4/23/98 | 8:48:30 | 3.1 | 4 | 21.6 | 11.98 | 4.79 | 6.77 | 50.2 | 0.03 | 94.6 | 139 | 450 |
| Windy Bay Deep | 1698 | DBASRP | 4/23/98 | 8:48:30 | 3.1 | 3 | 23.7 | 11.95 | 4.78 | 6.77 | 50.1 | 0.03 | 94.4 | 240 | 450 |
| Windy Bay Deep | 1698 | DBASRP | 4/23/98 | 8:48:30 | 3.1 | 2 | 25.7 | 12.02 | 4.78 | 6.75 | 50.2 | 0.03 | 94.9 | 109 | 450 |
| Windy Bay Deep | 1698 | DBASRP | 4/23/98 | 8:48:30 | 3.1 | 1 | 27.7 | 12.02 | 4.78 | 6.71 | 50.1 | 0.03 | 94.9 | 346 | 451 |
| Windy Bay Deep | 2198 | JLDTAS | 5/26/98 | 11:37 | 3.4 | 16 | 0.3 | 11.7 | 10.53 | 7.21 | 42 | 0.03 | 105.9 | 53 | 412 |
| Windy Bay Deep | 2198 | JLDTAS | 5/26/98 | 11:37 | 3.4 | 15 | 2.3 | 11.67 | 10.48 | 7.2 | 42.1 | 0.03 | 105.6 | 105 | 411 |
| Windy Bay Deep | 2198 | JLDTAS | 5/26/98 | 11:37 | 3.4 | 14 | 4.3 | 11.64 | 10.43 | 7.17 | 42.1 | 0.03 | 105.2 | 133 | 412 |
| Windy Bay Deep | 2198 | JLDTAS | 5/26/98 | 11:37 | 3.4 | 13 | 6.3 | 11.62 | 10.35 | 7.16 | 42.1 | 0.03 | 104.7 | 201 | 411 |
| Windy Bay Deep | 2198 | JLDTAS | 5/26/98 | 11:37 | 3.4 | 12 | 8.3 | 11.41 | 9.76 | 7.1 | 43 | 0.03 | 101.4 | 9 | 410 |
| Windy Bay Deep | 2198 | JLDTAS | 5/26/98 | 11:37 | 3.4 | 11 | 10.3 | 11.44 | 9.4 | 7.03 | 43.5 | 0.03 | 100.8 | 153 | 411 |
| Windy Bay Deep | 2198 | JLDTAS | 5/26/98 | 11:37 | 3.4 | 10 | 12.3 | 11.4 | 8.68 | 6.9 | 44.7 | 0.03 | 98.7 | 227 | 416 |
| Windy Bay Deep | 2198 | JLDTAS | 5/26/98 | 11:37 | 3.4 | 9 | 14.3 | 11.4 | 8.61 | 6.92 | 44.8 | 0.03 | 98.6 | 244 | 413 |
| Windy Bay Deep | 2198 | JLDTAS | 5/26/98 | 11:37 | 3.4 | 8 | 16.3 | 11.12 | | 6.85 | 45.9 | 0.03 | 94.6 | 153 | 412 |
| Windy Bay Deep | 2198 | JLDTAS | 5/26/98 | 11:37 | 3.4 | 7 | 18.3 | 11.35 | 7.14 | 6.79 | 47.3 | 0.03 | 94.6 | 137 | 415 |
| Windy Bay Deep | 2198 | JLDTAS | 5/26/98 | 11:37 | 3.4 | 6 | 20.3 | 11.28 | 6.94 | 6.82 | 47.7 | 0.03 | 93.6 | 124 | 411 |
| Windy Bay Deep | 2198 | JLDTAS | 5/26/98 | 11:37 | 3.4 | 5 | 22.3 | 11.29 | 6.69 | 6.81 | 48 | 0.03 | 93.1 | 119 | 411 |
| Windy Bay Deep | 2198 | JLDTAS | 5/26/98 | 11:37 | 3.4 | 4 | 24.3 | 11.19 | 6.61 | 6.72 | 48.1 | 0.03 | 92.1 | 159 | 414 |
| Windy Bay Deep | 2198 | JLDTAS | 5/26/98 | 11:37 | 3.4 | 3 | 26.3 | 11.05 | 6.23 | 6.7 | 48.8 | 0.03 | 90.1 | 118 | 412 |
| Windy Bay Deep | 2198 | JLDTAS | 5/26/98 | 11:37 | 3.4 | 2 | 28.3 | 11.05 | 6.15 | 6.65 | 49 | 0.03 | 89.9 | 427 | 414 |
| Windy Bay Deep | 2198 | JLDTAS | 5/26/98 | 11:37 | 3.4 | 1 | 30.3 | 11.12 | 6.18 | 6.65 | 48.9 | 0.03 | 90.6 | 227 | 411 |
| Windy Bay Deep | 2398 | DTJLAS | 6/8/98 | 11:07:23 | 4.2 | 11 | 0.4 | 10.91 | 17.52 | 7.78 | 43.9 | 0.03 | 113.5 | 52 | 399 |
| Windy Bay Deep | 2398 | DTJLAS | 6/8/98 | 11:07:23 | 4.2 | 10 | 2.6 | 11.07 | 16.07 | 7.73 | 43.4 | 0.03 | 112.4 | 54 | 403 |
| Windy Bay Deep | 2398 | DTJLAS | 6/8/98 | 11:07:23 | 4.2 | 9 | 5.6 | 11.06 | 15.49 | 7.66 | 43.5 | 0.03 | 110.9 | 100 | 406 |
| Windy Bay Deep | 2398 | DTJLAS | 6/8/98 | 11:07:23 | 4.2 | 8 | 8.6 | 11.12 | 15.28 | 7.62 | 43.5 | 0.03 | 111.1 | 105 | 407 |
| Windy Bay Deep | 2398 | DTJLAS | 6/8/98 | 11:07:23 | 4.2 | 7 | 11.6 | 11.55 | 13.87 | 7.62 | 43.1 | 0.03 | 111.8 | 128 | 408 |
| Windy Bay Deep | 2398 | DTJLAS | 6/8/98 | 11:07:23 | 4.2 | 6 | 14.6 | 11.15 | 12.04 | 7.28 | 43.4 | 0.03 | 103.6 | 203 | 416 |
| Windy Bay Deep | 2398 | DTJLAS | 6/8/98 | 11:07:23 | 4.2 | 5 | 17.6 | 10.83 | 9.74 | 7.1 | 44.3 | 0.03 | 95.3 | 204 | 420 |
| Windy Bay Deep | 2398 | DTJLAS | 6/8/98 | 11:07:23 | 4.2 | 4 | 20.6 | 10.7 | 8.61 | 7.04 | 45 | 0.03 | 91.6 | 151 | 421 |
| Windy Bay Deep | 2398 | DTJLAS | 6/8/98 | 11:07:23 | 4.2 | 3 | 23.6 | 10.64 | 8.22 | 7.02 | 46.6 | 0.03 | 90.3 | 117 | 421 |

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|----------------|------|--------|---------|----------|-----|----|------|-------|-------|------|------|------|-------|-----|-----|
| Windy Bay Deep | 2398 | DTJLAS | 6/8/98 | 11:07:23 | 4.2 | 2 | 26.6 | 10.59 | 7.63 | 6.99 | 48.2 | 0.03 | 88.5 | 115 | 421 |
| Windy Bay Deep | 2398 | DTJLAS | 6/8/98 | 11:07:23 | 4.2 | 1 | 29.6 | 10.11 | 8.1 | 7 | 47.8 | 0.03 | 85.6 | 216 | 432 |
| Windy Bay Deep | 2598 | DTASBH | 6/24/98 | 11:43:39 | 4.5 | 12 | 0.5 | 10.5 | 18.17 | 8.02 | 43.4 | 0.03 | 112 | 126 | 391 |
| Windy Bay Deep | 2598 | DTASBH | 6/24/98 | 11:43:39 | 4.5 | 11 | 1.5 | 10.55 | 18.05 | 7.99 | 43.3 | 0.03 | 112.2 | 115 | 395 |
| Windy Bay Deep | 2598 | DTASBH | 6/24/98 | 11:43:39 | 4.5 | 10 | 4.5 | 11.1 | 15.86 | 7.88 | 42.4 | 0.03 | 112.8 | 124 | 400 |
| Windy Bay Deep | 2598 | DTASBH | 6/24/98 | 11:43:39 | 4.5 | 9 | 7.5 | 10.78 | 14.43 | 7.46 | 41.8 | 0.03 | 106.2 | 212 | 409 |
| Windy Bay Deep | 2598 | DTASBH | 6/24/98 | 11:43:39 | 4.5 | 8 | 10.5 | 10.49 | 12.94 | 7.21 | 41.3 | 0.03 | 100 | 143 | 415 |
| Windy Bay Deep | 2598 | DTASBH | 6/24/98 | 11:43:39 | 4.5 | 7 | 13.5 | 10.22 | 10.81 | 7.04 | 41.1 | 0.03 | 92.7 | 244 | 418 |
| Windy Bay Deep | 2598 | DTASBH | 6/24/98 | 11:43:39 | 4.5 | 6 | 16.5 | 9.88 | 8.37 | 6.9 | 43.5 | 0.03 | 84.6 | 212 | 421 |
| Windy Bay Deep | 2598 | DTASBH | 6/24/98 | 11:43:39 | 4.5 | 5 | 19.5 | 10.12 | 7.43 | 6.89 | 45.7 | 0.03 | 84.7 | 53 | 422 |
| Windy Bay Deep | 2598 | DTASBH | 6/24/98 | 11:43:39 | 4.5 | 4 | 22.5 | 10.18 | 7.15 | 6.89 | 46.2 | 0.03 | 84.6 | 46 | 422 |
| Windy Bay Deep | 2598 | DTASBH | 6/24/98 | 11:43:39 | 4.5 | 3 | 25.5 | 10.25 | 6.89 | 6.9 | 46.7 | 0.03 | 84.6 | 206 | 422 |
| Windy Bay Deep | 2598 | DTASBH | 6/24/98 | 11:43:39 | 4.5 | 2 | 28.5 | 10.24 | 6.71 | 6.9 | 47.2 | 0.03 | 84.1 | 207 | 421 |
| Windy Bay Deep | 2598 | DTASBH | 6/24/98 | 11:43:39 | 4.5 | 1 | 31.5 | 9.98 | 6.71 | 6.91 | 47.4 | 0.03 | 82 | 455 | 421 |
| Windy Bay Deep | 2798 | ASDNBH | 7/8/98 | 9:49:41 | 4.5 | 16 | 0.5 | 9.56 | 21.94 | 7.83 | 47.3 | 0.03 | 109 | 105 | 330 |
| Windy Bay Deep | 2798 | ASDNBH | 7/8/98 | 9:49:41 | 4.5 | 15 | 2.2 | 9.66 | 21.06 | 7.91 | 47.1 | 0.03 | 108.3 | 142 | 326 |
| Windy Bay Deep | 2798 | ASDNBH | 7/8/98 | 9:49:41 | 4.5 | 14 | 4.2 | 10.07 | 20.47 | 7.97 | 46.3 | 0.03 | 111.6 | 216 | 326 |
| Windy Bay Deep | 2798 | ASDNBH | 7/8/98 | 9:49:41 | 4.5 | 13 | 6.2 | 10.77 | 18.6 | 8.23 | 44.8 | 0.03 | 115 | 205 | 323 |
| Windy Bay Deep | 2798 | ASDNBH | 7/8/98 | 9:49:41 | 4.5 | 12 | 8.2 | 10.98 | 17.36 | 8.23 | 44.2 | 0.03 | 114.2 | 138 | 325 |
| Windy Bay Deep | 2798 | ASDNBH | 7/8/98 | 9:49:41 | 4.5 | 11 | 10.2 | 10.37 | 15.91 | 7.57 | 43.2 | 0.03 | 104.6 | 225 | 338 |
| Windy Bay Deep | 2798 | ASDNBH | 7/8/98 | 9:49:41 | 4.5 | 10 | 12.2 | 9.1 | 13.02 | 6.97 | 41.7 | 0.03 | 86.2 | 155 | 348 |
| Windy Bay Deep | 2798 | ASDNBH | 7/8/98 | 9:49:41 | 4.5 | 9 | 14.2 | 9.06 | 10.18 | 6.83 | 41.1 | 0.03 | 80.4 | 135 | 349 |
| Windy Bay Deep | 2798 | ASDNBH | 7/8/98 | 9:49:41 | 4.5 | 8 | 16.2 | 9.07 | 9.32 | 6.81 | 41.8 | 0.03 | 78.8 | 142 | 348 |
| Windy Bay Deep | 2798 | ASDNBH | 7/8/98 | 9:49:41 | 4.5 | 7 | 18.2 | 9 | 8.47 | 6.78 | 43.2 | 0.03 | 76.6 | 133 | 347 |
| Windy Bay Deep | 2798 | ASDNBH | 7/8/98 | 9:49:41 | 4.5 | 6 | 20.2 | 9.06 | 8.25 | 6.78 | 43.5 | 0.03 | 76.8 | 208 | 345 |
| Windy Bay Deep | 2798 | ASDNBH | 7/8/98 | 9:49:41 | 4.5 | 5 | 22.2 | 9.35 | 7.7 | 6.79 | 44.7 | 0.03 | 78.1 | 131 | 343 |
| Windy Bay Deep | 2798 | ASDNBH | 7/8/98 | 9:49:41 | 4.5 | 4 | 24.2 | 9.67 | 6.96 | 6.78 | 46 | 0.03 | 79.4 | 104 | 342 |
| Windy Bay Deep | 2798 | ASDNBH | 7/8/98 | 9:49:41 | 4.5 | 3 | 26.2 | 9.38 | 6.66 | 6.76 | 47 | 0.03 | 76.4 | 128 | 340 |
| Windy Bay Deep | 2798 | ASDNBH | 7/8/98 | 9:49:41 | 4.5 | 2 | 28.2 | 9.36 | 6.48 | 6.76 | 47.4 | 0.03 | 75.9 | 144 | 339 |
| Windy Bay Deep | 2798 | ASDNBH | 7/8/98 | 9:49:41 | 4.5 | 1 | 30.2 | 9.38 | 6.48 | 6.77 | 47.4 | 0.03 | 76.1 | 416 | 336 |
| Windy Bay Deep | 2998 | ASBH | 7/20/98 | 10:06:45 | 8.2 | 17 | 0.4 | 9.39 | 21.93 | 7.86 | 51.8 | 0.03 | 106.9 | 50 | 372 |
| Windy Bay Deep | 2998 | ASBH | 7/20/98 | 10:06:45 | 8.2 | 16 | 1 | 9.45 | 21.62 | 7.88 | 51.5 | 0.03 | 107 | 110 | 373 |
| Windy Bay Deep | 2998 | ASBH | 7/20/98 | 10:06:45 | 8.2 | 15 | 3 | 9.75 | 20.66 | 7.9 | 50.2 | 0.03 | 108.4 | 107 | 373 |
| Windy Bay Deep | 2998 | ASBH | 7/20/98 | 10:06:45 | 8.2 | 14 | 5 | 9.71 | 20.05 | 7.89 | 49.6 | 0.03 | 106.6 | 113 | 375 |
| Windy Bay Deep | 2998 | ASBH | 7/20/98 | 10:06:45 | 8.2 | 13 | 7 | 10.12 | 19.22 | 7.77 | 49.2 | 0.03 | 109.3 | 101 | 378 |
| Windy Bay Deep | 2998 | ASBH | 7/20/98 | 10:06:45 | 8.2 | 12 | 9 | 10.44 | 16.9 | 7.54 | 47.6 | 0.03 | 107.5 | 112 | 384 |
| Windy Bay Deep | 2998 | ASBH | 7/20/98 | 10:06:45 | 8.2 | 11 | 11 | 10.19 | 15.36 | 7.23 | 46.2 | 0.03 | 101.5 | 103 | 390 |
| Windy Bay Deep | 2998 | ASBH | 7/20/98 | 10:06:45 | 8.2 | 10 | 13 | 9.24 | 13.45 | 6.94 | 45.5 | 0.03 | 88.3 | 221 | 394 |
| Windy Bay Deep | 2998 | ASBH | 7/20/98 | 10:06:45 | 8.2 | 9 | 15 | 8.53 | 10.76 | 6.76 | 45.2 | 0.03 | 76.6 | 50 | 397 |
| Windy Bay Deep | 2998 | ASBH | 7/20/98 | 10:06:45 | 8.2 | 8 | 17 | 8.54 | 9.56 | 6.71 | 46 | 0.03 | 74.6 | 55 | 397 |
| Windy Bay Deep | 2998 | ASBH | 7/20/98 | 10:06:45 | 8.2 | 7 | 19 | 8.85 | 9.06 | 6.72 | 46.4 | 0.03 | 76.3 | 104 | 396 |

| | | | | | | | | | | | | | | | |
|----------------|------|--------|---------|----------|-----|----|------|------|-------|------|------|------|-------|-----|-----|
| Windy Bay Deep | 2998 | ASBH | 7/20/98 | 10:06:45 | 8.2 | 6 | 21 | 8.48 | 8.81 | 6.72 | 47.2 | 0.03 | 72.7 | 117 | 395 |
| Windy Bay Deep | 2998 | ASBH | 7/20/98 | 10:06:45 | 8.2 | 5 | 23 | 8.89 | 8.22 | 6.75 | 47.9 | 0.03 | 75.2 | 105 | 394 |
| Windy Bay Deep | 2998 | ASBH | 7/20/98 | 10:06:45 | 8.2 | 4 | 25 | 9.29 | 7.43 | 6.77 | 49.7 | 0.03 | 77 | 51 | 394 |
| Windy Bay Deep | 2998 | ASBH | 7/20/98 | 10:06:45 | 8.2 | 3 | 27 | 9.27 | 6.9 | 6.77 | 50.7 | 0.03 | 75.8 | 122 | 393 |
| Windy Bay Deep | 2998 | ASBH | 7/20/98 | 10:06:45 | 8.2 | 2 | 29 | 9.35 | 6.67 | 6.79 | 51 | 0.03 | 76 | 204 | 392 |
| Windy Bay Deep | 2998 | ASBH | 7/20/98 | 10:06:45 | 8.2 | 1 | 31 | 8.76 | 7.22 | 6.83 | 51.3 | 0.03 | 72.2 | 315 | 393 |
| | | | | | | | | | | | | | | | |
| Windy Bay Deep | 3298 | DBAS | 8/10/98 | 9:53:02 | 8.8 | 16 | 0.4 | 8.78 | 23.55 | 7.81 | 57.5 | 0.04 | 103 | 42 | 362 |
| Windy Bay Deep | 3298 | DBAS | 8/10/98 | 9:53:02 | 8.8 | 15 | 1.8 | 8.8 | 23.5 | 7.8 | 57.5 | 0.04 | 103.1 | 46 | 364 |
| Windy Bay Deep | 3298 | DBAS | 8/10/98 | 9:53:02 | 8.8 | 14 | 3.9 | 8.86 | 23.27 | 7.81 | 58.2 | 0.04 | 103.4 | 121 | 365 |
| Windy Bay Deep | 3298 | DBAS | 8/10/98 | 9:53:02 | 8.8 | 13 | 5.8 | 8.89 | 23.17 | 7.76 | 57.9 | 0.04 | 103.5 | 116 | 367 |
| Windy Bay Deep | 3298 | DBAS | 8/10/98 | 9:53:02 | 8.8 | 12 | 7.8 | 8.87 | 23.12 | 7.67 | 57.7 | 0.04 | 103.1 | 128 | 371 |
| Windy Bay Deep | 3298 | DBAS | 8/10/98 | 9:53:02 | 8.8 | 11 | 9.9 | 9.98 | 19.39 | 7.36 | 49.6 | 0.03 | 108 | 108 | 379 |
| Windy Bay Deep | 3298 | DBAS | 8/10/98 | 9:53:02 | 8.8 | 10 | 11.8 | 9.98 | 14.05 | 6.96 | 46.8 | 0.03 | 96.6 | 100 | 389 |
| Windy Bay Deep | 3298 | DBAS | 8/10/98 | 9:53:02 | 8.8 | 9 | 13.8 | 9.01 | 12.02 | 6.8 | 46.3 | 0.03 | 83.2 | 128 | 391 |
| Windy Bay Deep | 3298 | DBAS | 8/10/98 | 9:53:02 | 8.8 | 8 | 15.8 | 8.34 | 10.49 | 6.7 | 46.6 | 0.03 | 74.4 | 110 | 393 |
| Windy Bay Deep | 3298 | DBAS | 8/10/98 | 9:53:02 | 8.8 | 7 | 17.8 | 7.77 | 9.1 | 6.63 | 48.1 | 0.03 | 67 | 104 | 394 |
| Windy Bay Deep | 3298 | DBAS | 8/10/98 | 9:53:02 | 8.8 | 6 | 19.8 | 8.22 | 8.17 | 6.65 | 49.3 | 0.03 | 69.4 | 114 | 393 |
| Windy Bay Deep | 3298 | DBAS | 8/10/98 | 9:53:02 | 8.8 | 5 | 21.8 | 8.76 | 7.61 | 6.69 | 49.8 | 0.03 | 72.9 | 117 | 391 |
| Windy Bay Deep | 3298 | DBAS | 8/10/98 | 9:53:02 | 8.8 | 4 | 23.8 | 8.89 | 7.07 | 6.69 | 51.4 | 0.03 | 73 | 123 | 391 |
| Windy Bay Deep | 3298 | DBAS | 8/10/98 | 9:53:02 | 8.8 | 3 | 25.8 | 8.69 | 6.79 | 6.69 | 51.8 | 0.03 | 70.8 | 125 | 389 |
| Windy Bay Deep | 3298 | DBAS | 8/10/98 | 9:53:02 | 8.8 | 2 | 27.8 | 8.21 | 6.64 | 6.68 | 52.4 | 0.03 | 66.7 | 101 | 387 |
| Windy Bay Deep | 3298 | DBAS | 8/10/98 | 9:53:02 | 8.8 | 1 | 29.8 | 7.72 | 7.04 | 6.7 | 53.6 | 0.03 | 63.3 | 252 | 385 |
| | | | | | | | | | | | | | | | |
| Windy Bay Deep | 3498 | ASDNGL | 8/24/98 | 13:50:30 | 9 | 16 | 0.9 | 9.13 | 21.8 | 7.8 | 53.4 | 0.03 | 104.1 | 116 | 355 |
| Windy Bay Deep | 3498 | ASDNGL | 8/24/98 | 13:50:30 | 9 | 15 | 2.9 | 9.21 | 21.41 | 7.8 | 53.6 | 0.03 | 104.2 | 55 | 359 |
| Windy Bay Deep | 3498 | ASDNGL | 8/24/98 | 13:50:30 | 9 | 14 | 4.9 | 9.18 | 21.38 | 7.76 | 53.6 | 0.03 | 103.8 | 46 | 360 |
| Windy Bay Deep | 3498 | ASDNGL | 8/24/98 | 13:50:30 | 9 | 13 | 6.9 | 9.19 | 21.31 | 7.69 | 53.4 | 0.03 | 103.7 | 48 | 364 |
| Windy Bay Deep | 3498 | ASDNGL | 8/24/98 | 13:50:30 | 9 | 12 | 8.9 | 9.18 | 21.22 | 7.59 | 52.8 | 0.03 | 103.4 | 37 | 368 |
| Windy Bay Deep | 3498 | ASDNGL | 8/24/98 | 13:50:30 | 9 | 11 | 10.9 | 9.04 | 20.76 | 7.45 | 52.7 | 0.03 | 101 | 200 | 373 |
| Windy Bay Deep | 3498 | ASDNGL | 8/24/98 | 13:50:30 | 9 | 10 | 12.9 | 9.49 | 15.33 | 6.93 | 45.1 | 0.03 | 94.8 | 142 | 387 |
| Windy Bay Deep | 3498 | ASDNGL | 8/24/98 | 13:50:30 | 9 | 9 | 14.9 | 8.71 | 12.04 | 6.74 | 44.2 | 0.03 | 80.9 | 126 | 392 |
| Windy Bay Deep | 3498 | ASDNGL | 8/24/98 | 13:50:30 | 9 | 8 | 16.9 | 7.48 | 9.99 | 6.59 | 45.9 | 0.03 | 66.3 | 113 | 395 |
| Windy Bay Deep | 3498 | ASDNGL | 8/24/98 | 13:50:30 | 9 | 7 | 18.9 | 7.5 | 9.15 | 6.57 | 45.8 | 0.03 | 65.1 | 110 | 396 |
| Windy Bay Deep | 3498 | ASDNGL | 8/24/98 | 13:50:30 | 9 | 6 | 20.9 | 7.64 | 8.42 | 6.57 | 46.6 | 0.03 | 65.2 | 126 | 396 |
| Windy Bay Deep | 3498 | ASDNGL | 8/24/98 | 13:50:30 | 9 | 5 | 22.9 | 8.13 | 7.97 | 6.58 | 46.9 | 0.03 | 68.6 | 228 | 395 |
| Windy Bay Deep | 3498 | ASDNGL | 8/24/98 | 13:50:30 | 9 | 4 | 24.9 | 8.54 | 7.28 | 6.59 | 48.1 | 0.03 | 70.8 | 301 | 395 |
| Windy Bay Deep | 3498 | ASDNGL | 8/24/98 | 13:50:30 | 9 | 3 | 26.9 | 8.47 | 7.02 | 6.57 | 48.5 | 0.03 | 69.8 | 226 | 395 |
| Windy Bay Deep | 3498 | ASDNGL | 8/24/98 | 13:50:30 | 9 | 2 | 28.9 | 8.27 | 6.71 | 6.54 | 49.4 | 0.03 | 67.6 | 142 | 396 |
| Windy Bay Deep | 3498 | ASDNGL | 8/24/98 | 13:50:30 | 9 | 1 | 30.9 | 7.93 | 7.15 | 6.54 | 48.7 | 0.03 | 65.5 | 820 | 401 |
| | | | | | | | | | | | | | | | |
| Windy Bay Deep | 3598 | DTAS | 9/2/98 | 10:03:06 | 8.7 | 16 | 0.3 | 9.07 | 21.96 | 7.89 | 56.1 | 0.04 | 103.7 | 31 | 336 |
| Windy Bay Deep | 3598 | DTAS | 9/2/98 | 10:03:06 | 8.7 | 15 | 2.2 | 9.05 | 21.55 | 7.79 | 55.8 | 0.04 | 102.7 | 44 | 342 |
| Windy Bay Deep | 3598 | DTAS | 9/2/98 | 10:03:06 | 8.7 | 14 | 4.2 | 9.08 | 21.41 | 7.79 | 55.9 | 0.04 | 102.8 | 51 | 343 |

| | | | | | | | | | | | | | | | |
|----------------|------|--------|----------|----------|-----|----|------|------|-------|------|------|------|-------|-----|-----|
| Windy Bay Deep | 3598 | DTAS | 9/2/98 | 10:03:06 | 8.7 | 13 | 6.2 | 9.08 | 21.36 | 7.74 | 55.9 | 0.04 | 102.7 | 54 | 347 |
| Windy Bay Deep | 3598 | DTAS | 9/2/98 | 10:03:06 | 8.7 | 12 | 8.2 | 9.04 | 21.25 | 7.6 | 55.8 | 0.04 | 102 | 110 | 353 |
| Windy Bay Deep | 3598 | DTAS | 9/2/98 | 10:03:06 | 8.7 | 11 | 10.2 | 8.76 | 20.59 | 7.22 | 55 | 0.04 | 97.6 | 54 | 366 |
| Windy Bay Deep | 3598 | DTAS | 9/2/98 | 10:03:06 | 8.7 | 10 | 12.2 | 9.24 | 13.72 | 6.81 | 46 | 0.03 | 89.2 | 115 | 376 |
| Windy Bay Deep | 3598 | DTAS | 9/2/98 | 10:03:06 | 8.7 | 9 | 14.2 | 7.86 | 11.48 | 6.65 | 45.5 | 0.03 | 72.1 | 111 | 380 |
| Windy Bay Deep | 3598 | DTAS | 9/2/98 | 10:03:06 | 8.7 | 8 | 16.2 | 7.26 | 9.94 | 6.56 | 46.6 | 0.03 | 64.2 | 110 | 382 |
| Windy Bay Deep | 3598 | DTAS | 9/2/98 | 10:03:06 | 8.7 | 7 | 18.2 | 7.4 | 8.96 | 6.57 | 46.9 | 0.03 | 64 | 122 | 381 |
| Windy Bay Deep | 3598 | DTAS | 9/2/98 | 10:03:06 | 8.7 | 6 | 20.2 | 7.67 | 8.13 | 6.56 | 48.2 | 0.03 | 65 | 109 | 381 |
| Windy Bay Deep | 3598 | DTAS | 9/2/98 | 10:03:06 | 8.7 | 5 | 22.2 | 8.12 | 7.66 | 6.58 | 49.1 | 0.03 | 68 | 103 | 381 |
| Windy Bay Deep | 3598 | DTAS | 9/2/98 | 10:03:06 | 8.7 | 4 | 24.2 | 8.23 | 7.35 | 6.57 | 49.3 | 0.03 | 68.4 | 53 | 381 |
| Windy Bay Deep | 3598 | DTAS | 9/2/98 | 10:03:06 | 8.7 | 3 | 26.2 | 8.31 | 7.05 | 6.57 | 50 | 0.03 | 68.6 | 158 | 381 |
| Windy Bay Deep | 3598 | DTAS | 9/2/98 | 10:03:06 | 8.7 | 2 | 28.2 | 7.92 | 6.76 | 6.54 | 51 | 0.03 | 64.9 | 122 | 382 |
| Windy Bay Deep | 3598 | DTAS | 9/2/98 | 10:03:06 | 8.7 | 1 | 30.2 | 7.39 | 7.08 | 6.54 | 50.5 | 0.03 | 61 | 606 | 382 |
| | | | | | | | | | | | | | | | |
| Windy Bay Deep | 3998 | ASKB | 9/30/98 | 12:07:00 | 10 | 16 | 0.5 | 9.27 | 18.28 | 7.7 | 57.5 | 0.04 | 98.3 | 111 | 347 |
| Windy Bay Deep | 3998 | ASKB | 9/30/98 | 12:07:00 | 10 | 15 | 2.9 | 9.29 | 18 | 7.69 | 57.3 | 0.04 | 98 | 121 | 348 |
| Windy Bay Deep | 3998 | ASKB | 9/30/98 | 12:07:00 | 10 | 14 | 4.9 | 9.29 | 17.97 | 7.66 | 57.5 | 0.04 | 98 | 130 | 351 |
| Windy Bay Deep | 3998 | ASKB | 9/30/98 | 12:07:00 | 10 | 13 | 6.9 | 9.27 | 17.95 | 7.63 | 57.8 | 0.04 | 97.7 | 109 | 352 |
| Windy Bay Deep | 3998 | ASKB | 9/30/98 | 12:07:00 | 10 | 12 | 8.9 | 9.27 | 17.88 | 7.58 | 57.8 | 0.04 | 97.5 | 121 | 354 |
| Windy Bay Deep | 3998 | ASKB | 9/30/98 | 12:07:00 | 10 | 11 | 10.9 | 9.25 | 17.87 | 7.52 | 58.2 | 0.04 | 97.3 | 152 | 356 |
| Windy Bay Deep | 3998 | ASKB | 9/30/98 | 12:07:00 | 10 | 10 | 12.9 | 9.12 | 17.85 | 7.33 | 57.6 | 0.04 | 95.9 | 140 | 363 |
| Windy Bay Deep | 3998 | ASKB | 9/30/98 | 12:07:00 | 10 | 9 | 14.9 | 6.72 | 12.6 | 6.64 | 47.7 | 0.03 | 63.1 | 122 | 377 |
| Windy Bay Deep | 3998 | ASKB | 9/30/98 | 12:07:00 | 10 | 8 | 16.9 | 6.29 | 9.92 | 6.6 | 48.5 | 0.03 | 55.5 | 141 | 377 |
| Windy Bay Deep | 3998 | ASKB | 9/30/98 | 12:07:00 | 10 | 7 | 18.9 | 6.58 | 9.01 | 6.59 | 48.8 | 0.03 | 56.8 | 157 | 377 |
| Windy Bay Deep | 3998 | ASKB | 9/30/98 | 12:07:00 | 10 | 6 | 20.9 | 7.02 | 8.48 | 6.62 | 49.2 | 0.03 | 59.8 | 153 | 375 |
| Windy Bay Deep | 3998 | ASKB | 9/30/98 | 12:07:00 | 10 | 5 | 22.9 | 7.6 | 7.88 | 6.64 | 49.7 | 0.03 | 63.8 | 142 | 374 |
| Windy Bay Deep | 3998 | ASKB | 9/30/98 | 12:07:00 | 10 | 4 | 24.9 | 7.87 | 7.63 | 6.66 | 49.8 | 0.03 | 65.6 | 143 | 373 |
| Windy Bay Deep | 3998 | ASKB | 9/30/98 | 12:07:00 | 10 | 3 | 26.9 | 7.92 | 6.92 | 6.65 | 51 | 0.03 | 64.9 | 135 | 373 |
| Windy Bay Deep | 3998 | ASKB | 9/30/98 | 12:07:00 | 10 | 2 | 28.8 | 7.26 | 6.73 | 6.63 | 51.8 | 0.03 | 59.2 | 124 | 372 |
| Windy Bay Deep | 3998 | ASKB | 9/30/98 | 12:07:00 | 10 | 1 | 30.9 | 6.89 | 6.76 | 6.63 | 52 | 0.03 | 56.3 | 549 | 374 |
| | | | | | | | | | | | | | | | |
| Windy Bay Deep | 4298 | DTASKB | 10/20/98 | 11:14:13 | 9 | 16 | 0.4 | 9.2 | 13.14 | 7.36 | 53.3 | 0.03 | 86.5 | 41 | 353 |
| Windy Bay Deep | 4298 | DTASKB | 10/20/98 | 11:14:13 | 9 | 15 | 2.3 | 9.18 | 13.12 | 7.36 | 53.3 | 0.03 | 86.3 | 31 | 354 |
| Windy Bay Deep | 4298 | DTASKB | 10/20/98 | 11:14:13 | 9 | 14 | 4.3 | 9.18 | 13.06 | 7.33 | 53.1 | 0.03 | 86.2 | 30 | 356 |
| Windy Bay Deep | 4298 | DTASKB | 10/20/98 | 11:14:13 | 9 | 13 | 6.3 | 9.18 | 13.06 | 7.31 | 53.3 | 0.03 | 86.2 | 35 | 357 |
| Windy Bay Deep | 4298 | DTASKB | 10/20/98 | 11:14:13 | 9 | 12 | 8.3 | 9.19 | 13.04 | 7.31 | 53.1 | 0.03 | 86.2 | 34 | 357 |
| Windy Bay Deep | 4298 | DTASKB | 10/20/98 | 11:14:13 | 9 | 11 | 10.3 | 9.17 | 13.02 | 7.3 | 53.3 | 0.03 | 86 | 46 | 358 |
| Windy Bay Deep | 4298 | DTASKB | 10/20/98 | 11:14:13 | 9 | 10 | 12.3 | 9.17 | 13.02 | 7.26 | 52.9 | 0.03 | 86 | 30 | 359 |
| Windy Bay Deep | 4298 | DTASKB | 10/20/98 | 11:14:13 | 9 | 9 | 14.3 | 9.15 | 13.02 | 7.24 | 52.9 | 0.03 | 85.8 | 32 | 360 |
| Windy Bay Deep | 4298 | DTASKB | 10/20/98 | 11:14:13 | 9 | 8 | 16.3 | 9.14 | 12.99 | 7.2 | 53.1 | 0.03 | 85.6 | 34 | 361 |
| Windy Bay Deep | 4298 | DTASKB | 10/20/98 | 11:14:13 | 9 | 7 | 18.3 | 9.03 | 13.01 | 7.1 | 52.9 | 0.03 | 84.6 | 54 | 364 |
| Windy Bay Deep | 4298 | DTASKB | 10/20/98 | 11:14:13 | 9 | 6 | 20.3 | 6.75 | 11.54 | 6.67 | 49.1 | 0.03 | 61.2 | 40 | 370 |
| Windy Bay Deep | 4298 | DTASKB | 10/20/98 | 11:14:13 | 9 | 5 | 22.3 | 6.13 | 9.69 | 6.6 | 47.2 | 0.03 | 53.2 | 113 | 370 |
| Windy Bay Deep | 4298 | DTASKB | 10/20/98 | 11:14:13 | 9 | 4 | 24.3 | 6.89 | 8.2 | 6.62 | 46.8 | 0.03 | 57.7 | 53 | 369 |

| | | | | | | | | | | | | | | | |
|----------------|------|--------|----------|----------|-----|----|------|------|-------|------|------|------|------|------|-----|
| Windy Bay Deep | 4298 | DTASKB | 10/20/98 | 11:14:13 | 9 | 3 | 26.3 | 7.02 | 7.63 | 6.62 | 47.3 | 0.03 | 57.9 | 53 | 369 |
| Windy Bay Deep | 4298 | DTASKB | 10/20/98 | 11:14:13 | 9 | 2 | 28.3 | 7.14 | 7.24 | 6.63 | 47.7 | 0.03 | 58.3 | 50 | 367 |
| Windy Bay Deep | 4298 | DTASKB | 10/20/98 | 11:14:13 | 9 | 1 | 30.3 | 7.05 | 7.04 | 6.64 | 48.2 | 0.03 | 57.4 | 113 | 367 |
| | | | | | | | | | | | | | | | |
| Windy Bay Deep | 4598 | KB AS | 11/12/98 | 11:44:00 | 8.6 | 16 | 0.4 | 8.51 | 10.2 | 7.28 | 53.2 | 0.03 | 75.2 | 37 | 377 |
| Windy Bay Deep | 4598 | KB AS | 11/12/98 | 11:44:00 | 8.6 | 15 | 1.4 | 8.5 | 10.2 | 7.28 | 53.1 | 0.03 | 75.1 | 53 | 377 |
| Windy Bay Deep | 4598 | KB AS | 11/12/98 | 11:44:00 | 8.6 | 14 | 3.5 | 8.47 | 10.22 | 7.23 | 53.3 | 0.03 | 74.9 | 108 | 379 |
| Windy Bay Deep | 4598 | KB AS | 11/12/98 | 11:44:00 | 8.6 | 13 | 5.5 | 8.49 | 10.2 | 7.23 | 52.9 | 0.03 | 75 | 114 | 379 |
| Windy Bay Deep | 4598 | KB AS | 11/12/98 | 11:44:00 | 8.6 | 12 | 7.5 | 8.47 | 10.22 | 7.18 | 52.9 | 0.03 | 74.9 | 104 | 381 |
| Windy Bay Deep | 4598 | KB AS | 11/12/98 | 11:44:00 | 8.6 | 11 | 9.5 | 8.46 | 10.22 | 7.14 | 53.2 | 0.03 | 74.8 | 46 | 382 |
| Windy Bay Deep | 4598 | KB AS | 11/12/98 | 11:44:00 | 8.6 | 10 | 11.5 | 8.46 | 10.22 | 7.13 | 53.1 | 0.03 | 74.8 | 50 | 382 |
| Windy Bay Deep | 4598 | KB AS | 11/12/98 | 11:44:00 | 8.6 | 9 | 13.5 | 8.45 | 10.23 | 7.08 | 53.1 | 0.03 | 74.8 | 104 | 383 |
| Windy Bay Deep | 4598 | KB AS | 11/12/98 | 11:44:00 | 8.6 | 8 | 15.5 | 8.4 | 10.2 | 6.98 | 53.8 | 0.03 | 74.3 | 145 | 385 |
| Windy Bay Deep | 4598 | KB AS | 11/12/98 | 11:44:00 | 8.6 | 7 | 17.4 | 6.04 | 8.55 | 6.6 | 50.9 | 0.03 | 51.3 | 147 | 391 |
| Windy Bay Deep | 4598 | KB AS | 11/12/98 | 11:44:00 | 8.6 | 6 | 19.5 | 6.07 | 7.4 | 6.56 | 48.4 | 0.03 | 50.1 | 115 | 391 |
| Windy Bay Deep | 4598 | KB AS | 11/12/98 | 11:44:00 | 8.6 | 5 | 21.5 | 5.94 | 7.04 | 6.55 | 48.4 | 0.03 | 48.6 | 104 | 392 |
| Windy Bay Deep | 4598 | KB AS | 11/12/98 | 11:44:00 | 8.6 | 4 | 23.5 | 5.71 | 6.99 | 6.54 | 49 | 0.03 | 46.7 | 51 | 391 |
| Windy Bay Deep | 4598 | KB AS | 11/12/98 | 11:44:00 | 8.6 | 3 | 25.5 | 5.68 | 6.97 | 6.55 | 49 | 0.03 | 46.4 | 32 | 391 |
| Windy Bay Deep | 4598 | KB AS | 11/12/98 | 11:44:00 | 8.6 | 2 | 27.7 | 5.74 | 6.92 | 6.55 | 48.9 | 0.03 | 46.9 | 112 | 391 |
| Windy Bay Deep | 4598 | KB AS | 11/12/98 | 11:44:00 | 8.6 | 1 | 29.5 | 5.69 | 6.92 | 6.56 | 48.8 | 0.03 | 46.5 | 1828 | 390 |

| Location | Phase | Samplers | Date | Time | Secchi (m) | Sequence | Depth (m) | Dissolved Oxygen (mg/L) | Temperature (C) | pH | Conductivity (μs/cm) | TDS | Saturated Dissolved Oxygen | Stabilization Time | Redox |
|-----------|-------|----------|---------|----------|------------|----------|-----------|-------------------------|-----------------|------|----------------------|------|----------------------------|--------------------|-------|
| CDA River | 1098 | DBRP | 3/13/98 | 11:54:53 | 2 | 18 | 0.4 | 13.07 | 4.76 | 6.9 | 58.3 | 0.04 | 100.9 | 59 | 395 |
| CDA River | 1098 | DBRP | 3/13/98 | 11:54:53 | 2 | 17 | 1 | 13.08 | 4.72 | 6.9 | 58.3 | 0.04 | 100.9 | 51 | 396 |
| CDA River | 1098 | DBRP | 3/13/98 | 11:54:53 | 2 | 16 | 1.5 | 13.08 | 4.66 | 6.9 | 57.8 | 0.04 | 100.7 | 50 | 397 |
| CDA River | 1098 | DBRP | 3/13/98 | 11:54:53 | 2 | 15 | 2 | 13.09 | 4.54 | 6.91 | 57 | 0.04 | 100.5 | 42 | 396 |
| CDA River | 1098 | DBRP | 3/13/98 | 11:54:53 | 2 | 14 | 2.5 | 13.08 | 4.49 | 6.9 | 58.2 | 0.04 | 100.3 | 50 | 396 |
| CDA River | 1098 | DBRP | 3/13/98 | 11:54:53 | 2 | 13 | 3 | 13.09 | 4.41 | 6.93 | 57.5 | 0.04 | 100.1 | 40 | 394 |
| CDA River | 1098 | DBRP | 3/13/98 | 11:54:53 | 2 | 12 | 3.5 | 13.09 | 4.44 | 6.94 | 57.4 | 0.04 | 100.3 | 57 | 393 |
| CDA River | 1098 | DBRP | 3/13/98 | 11:54:53 | 2 | 11 | 4 | 13.08 | 4.44 | 6.94 | 58 | 0.04 | 100.2 | 104 | 393 |
| CDA River | 1098 | DBRP | 3/13/98 | 11:54:53 | 2 | 10 | 4.5 | 13.11 | 4.44 | 6.92 | 57.9 | 0.04 | 100.4 | 122 | 393 |
| CDA River | 1098 | DBRP | 3/13/98 | 11:54:53 | 2 | 9 | 5 | 13.14 | 4.51 | 6.9 | 60.9 | 0.04 | 100.8 | 105 | 393 |
| CDA River | 1098 | DBRP | 3/13/98 | 11:54:53 | 2 | 8 | 5.5 | 13.14 | 4.47 | 6.87 | 61.4 | 0.04 | 100.7 | 103 | 393 |
| CDA River | 1098 | DBRP | 3/13/98 | 11:54:53 | 2 | 7 | 6 | 13.14 | 4.38 | 6.88 | 61.5 | 0.04 | 100.4 | 44 | 392 |
| CDA River | 1098 | DBRP | 3/13/98 | 11:54:53 | 2 | 6 | 6.5 | 13.09 | 4.43 | 6.86 | 61.7 | 0.04 | 100.2 | 121 | 393 |
| CDA River | 1098 | DBRP | 3/13/98 | 11:54:53 | 2 | 5 | 7 | 13.14 | 4.47 | 6.82 | 61.7 | 0.04 | 100.7 | 102 | 393 |
| CDA River | 1098 | DBRP | 3/13/98 | 11:54:53 | 2 | 4 | 7.5 | 13.15 | 4.44 | 6.83 | 62 | 0.04 | 100.7 | 108 | 392 |
| CDA River | 1098 | DBRP | 3/13/98 | 11:54:53 | 2 | 3 | 8 | 13.2 | 4.46 | 6.77 | 62.1 | 0.04 | 101.1 | 52 | 394 |
| CDA River | 1098 | DBRP | 3/13/98 | 11:54:53 | 2 | 2 | 8.5 | 13.22 | 4.49 | 6.77 | 62.1 | 0.04 | 101.4 | 102 | 393 |
| CDA River | 1098 | DBRP | 3/13/98 | 11:54:53 | 2 | 1 | 9 | 13.25 | 4.39 | 6.76 | 63.3 | 0.04 | 101.3 | 151 | 392 |

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|-----------|------|--------|---------|----------|-----|----|------|-------|-------|------|------|------|-------|-----|-----|
| CDA River | 1498 | DBAS | 4/8/98 | 13:19:28 | 3.2 | 10 | 0.3 | 12.28 | 7.14 | 7.04 | 43.5 | 0.03 | 101.6 | 110 | 411 |
| CDA River | 1498 | DBAS | 4/8/98 | 13:19:28 | 3.2 | 9 | 1.6 | 12.23 | 7.04 | 7.01 | 43.6 | 0.03 | 100.9 | 139 | 414 |
| CDA River | 1498 | DBAS | 4/8/98 | 13:19:28 | 3.2 | 8 | 2.6 | 12.26 | 6.96 | 6.99 | 43.6 | 0.03 | 100.9 | 111 | 415 |
| CDA River | 1498 | DBAS | 4/8/98 | 13:19:28 | 3.2 | 7 | 3.6 | 12.26 | 7.04 | 7.04 | 43.5 | 0.03 | 101.2 | 118 | 413 |
| CDA River | 1498 | DBAS | 4/8/98 | 13:19:28 | 3.2 | 6 | 4.6 | 12.26 | 6.96 | 6.93 | 43.6 | 0.03 | 100.9 | 140 | 418 |
| CDA River | 1498 | DBAS | 4/8/98 | 13:19:28 | 3.2 | 5 | 5.6 | 12.23 | 6.96 | 6.99 | 43.7 | 0.03 | 100.7 | 110 | 415 |
| CDA River | 1498 | DBAS | 4/8/98 | 13:19:28 | 3.2 | 4 | 6.6 | 12.23 | 6.87 | 6.98 | 43.9 | 0.03 | 100.5 | 109 | 415 |
| CDA River | 1498 | DBAS | 4/8/98 | 13:19:28 | 3.2 | 3 | 7.6 | 12.23 | 6.86 | 6.95 | 44 | 0.03 | 100.4 | 56 | 415 |
| CDA River | 1498 | DBAS | 4/8/98 | 13:19:28 | 3.2 | 2 | 8.6 | 12.23 | 6.84 | 6.95 | 43.9 | 0.03 | 100.4 | 100 | 415 |
| CDA River | 1498 | DBAS | 4/8/98 | 13:19:28 | 3.2 | 1 | 9.6 | 12.24 | 6.78 | 6.93 | 44.4 | 0.03 | 100.3 | 407 | 415 |
| | | | | | | | | | | | | | | | |
| CDA River | 1698 | DBASRP | 4/23/98 | 12:46:10 | 2.3 | 11 | 0.1 | 11.53 | 12.99 | 7.01 | 47.1 | 0.03 | 107.6 | 57 | 376 |
| CDA River | 1698 | DBASRP | 4/23/98 | 12:46:10 | 2.3 | 10 | 1.3 | 11.68 | 10.12 | 7.04 | 49.1 | 0.03 | 102.1 | 53 | 373 |
| CDA River | 1698 | DBASRP | 4/23/98 | 12:46:10 | 2.3 | 9 | 2.3 | 11.7 | 9.56 | 6.98 | 50.3 | 0.03 | 100.9 | 42 | 374 |
| CDA River | 1698 | DBASRP | 4/23/98 | 12:46:10 | 2.3 | 8 | 3.3 | 11.72 | 9.49 | 6.91 | 50.3 | 0.03 | 100.9 | 34 | 377 |
| CDA River | 1698 | DBASRP | 4/23/98 | 12:46:10 | 2.3 | 7 | 4.3 | 11.65 | 9.35 | 6.89 | 50.2 | 0.03 | 99.9 | 53 | 377 |
| CDA River | 1698 | DBASRP | 4/23/98 | 12:46:10 | 2.3 | 6 | 5.3 | 11.54 | 8.28 | 6.82 | 49.8 | 0.03 | 96.5 | 51 | 378 |
| CDA River | 1698 | DBASRP | 4/23/98 | 12:46:10 | 2.3 | 5 | 6.2 | 11.5 | 7.46 | 6.8 | 48.4 | 0.03 | 94.3 | 108 | 378 |
| CDA River | 1698 | DBASRP | 4/23/98 | 12:46:10 | 2.3 | 4 | 7.2 | 11.39 | 7.02 | 6.75 | 48.5 | 0.03 | 92.3 | 107 | 378 |
| CDA River | 1698 | DBASRP | 4/23/98 | 12:46:10 | 2.3 | 3 | 8.2 | 11.3 | 6.59 | 6.77 | 47.9 | 0.03 | 90.6 | 59 | 375 |
| CDA River | 1698 | DBASRP | 4/23/98 | 12:46:10 | 2.3 | 2 | 9.3 | 11.35 | 6.08 | 6.73 | 48.5 | 0.03 | 89.8 | 109 | 375 |
| CDA River | 1698 | DBASRP | 4/23/98 | 12:46:10 | 2.3 | 1 | 10.3 | 11.42 | 5.67 | 6.7 | 49.4 | 0.03 | 89.4 | 207 | 374 |
| | | | | | | | | | | | | | | | |
| CDA River | 2198 | ASJLDT | 5/26/98 | 12:34:22 | 3.5 | 11 | 0.3 | 11.07 | 11.13 | 7.03 | 40.5 | 0.03 | 101.7 | 42 | 395 |
| CDA River | 2198 | ASJLDT | 5/26/98 | 12:34:22 | 3.5 | 10 | 1.8 | 11.08 | 11.15 | 6.98 | 40.5 | 0.03 | 101.8 | 49 | 397 |
| CDA River | 2198 | ASJLDT | 5/26/98 | 12:34:22 | 3.5 | 9 | 2.8 | 11.05 | 11.12 | 6.98 | 40.4 | 0.03 | 101.5 | 103 | 396 |
| CDA River | 2198 | ASJLDT | 5/26/98 | 12:34:22 | 3.5 | 8 | 3.8 | 11.04 | 11.05 | 7.06 | 39.9 | 0.03 | 101.2 | 112 | 389 |
| CDA River | 2198 | ASJLDT | 5/26/98 | 12:34:22 | 3.5 | 7 | 4.8 | 11.01 | 11 | 7 | 40 | 0.03 | 100.9 | 119 | 390 |
| CDA River | 2198 | ASJLDT | 5/26/98 | 12:34:22 | 3.5 | 6 | 5.8 | 10.99 | 10.94 | 7.02 | 40.2 | 0.03 | 100.5 | 55 | 386 |
| CDA River | 2198 | ASJLDT | 5/26/98 | 12:34:22 | 3.5 | 5 | 6.8 | 10.98 | 10.68 | 6.92 | 42.7 | 0.03 | 99.7 | 120 | 390 |
| CDA River | 2198 | ASJLDT | 5/26/98 | 12:34:22 | 3.5 | 4 | 7.8 | 11.03 | 10.58 | 6.89 | 44 | 0.03 | 100 | 128 | 389 |
| CDA River | 2198 | ASJLDT | 5/26/98 | 12:34:22 | 3.5 | 3 | 8.8 | 11.09 | 10.12 | 6.85 | 49.1 | 0.03 | 99.4 | 57 | 387 |
| CDA River | 2198 | ASJLDT | 5/26/98 | 12:34:22 | 3.5 | 2 | 9.8 | 10.99 | 9.66 | 6.76 | 49.5 | 0.03 | 97.5 | 118 | 389 |
| CDA River | 2198 | ASJLDT | 5/26/98 | 12:34:22 | 3.5 | 1 | 10.8 | 11.14 | 8.47 | 6.78 | 44.5 | 0.03 | 96 | 200 | 387 |
| | | | | | | | | | | | | | | | |
| CDA River | 2398 | DTJLAS | 6/8/98 | 11:39:46 | 3.6 | 12 | 0.3 | 10.65 | 17.18 | 7.58 | 42.6 | 0.03 | 110.7 | 129 | 399 |
| CDA River | 2398 | DTJLAS | 6/8/98 | 11:39:46 | 3.6 | 11 | 1.1 | 10.75 | 16.19 | 7.55 | 42.9 | 0.03 | 109.5 | 118 | 403 |
| CDA River | 2398 | DTJLAS | 6/8/98 | 11:39:46 | 3.6 | 10 | 2.1 | 10.85 | 15.56 | 7.54 | 42.9 | 0.03 | 109 | 113 | 405 |
| CDA River | 2398 | DTJLAS | 6/8/98 | 11:39:46 | 3.6 | 9 | 3.1 | 10.92 | 14.96 | 7.52 | 42.2 | 0.03 | 108.3 | 56 | 407 |
| CDA River | 2398 | DTJLAS | 6/8/98 | 11:39:46 | 3.6 | 8 | 4.1 | 10.85 | 14.86 | 7.49 | 43.4 | 0.03 | 107.4 | 150 | 408 |
| CDA River | 2398 | DTJLAS | 6/8/98 | 11:39:46 | 3.6 | 7 | 5.1 | 10.84 | 14.56 | 7.38 | 49.4 | 0.03 | 106.6 | 119 | 412 |
| CDA River | 2398 | DTJLAS | 6/8/98 | 11:39:46 | 3.6 | 6 | 6.1 | 10.6 | 13.98 | 7.25 | 53.8 | 0.03 | 102.9 | 115 | 416 |
| CDA River | 2398 | DTJLAS | 6/8/98 | 11:39:46 | 3.6 | 5 | 7.1 | 10.64 | 13.63 | 7.21 | 55.1 | 0.04 | 102.5 | 49 | 417 |
| CDA River | 2398 | DTJLAS | 6/8/98 | 11:39:46 | 3.6 | 4 | 8.1 | 10.64 | 13.4 | 7.22 | 53.1 | 0.03 | 102 | 115 | 417 |

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|-----------|------|--------|---------|----------|-----|----|------|-------|-------|------|------|------|-------|-----|-----|
| CDA River | 2398 | DTJLAS | 6/8/98 | 11:39:46 | 3.6 | 3 | 9.1 | 10.68 | 12.94 | 7.25 | 44.1 | 0.03 | 101.3 | 119 | 415 |
| CDA River | 2398 | DTJLAS | 6/8/98 | 11:39:46 | 3.6 | 2 | 10.1 | 10.76 | 12.43 | 7.24 | 41.4 | 0.03 | 100.8 | 132 | 415 |
| CDA River | 2398 | DTJLAS | 6/8/98 | 11:39:46 | 3.6 | 1 | 11.1 | 10.57 | 11.58 | 7.2 | 40.8 | 0.03 | 97.2 | 244 | 416 |
| | | | | | | | | | | | | | | | |
| CDA River | 2598 | DTASJL | 6/23/98 | 13:30:13 | 5.4 | 12 | 0.6 | 9.81 | 19.83 | 7.59 | 45.2 | 0.03 | 107.9 | 46 | 385 |
| CDA River | 2598 | DTASJL | 6/23/98 | 13:30:13 | 5.4 | 11 | 1.9 | 9.98 | 18.92 | 7.6 | 47.1 | 0.03 | 107.7 | 46 | 387 |
| CDA River | 2598 | DTASJL | 6/23/98 | 13:30:13 | 5.4 | 10 | 2.9 | 10.01 | 18.85 | 7.59 | 47.2 | 0.03 | 107.9 | 33 | 388 |
| CDA River | 2598 | DTASJL | 6/23/98 | 13:30:13 | 5.4 | 9 | 3.9 | 10 | 18.85 | 7.56 | 47.3 | 0.03 | 107.8 | 105 | 390 |
| CDA River | 2598 | DTASJL | 6/23/98 | 13:30:13 | 5.4 | 8 | 4.9 | 10.58 | 17.54 | 7.46 | 62 | 0.04 | 111 | 53 | 395 |
| CDA River | 2598 | DTASJL | 6/23/98 | 13:30:13 | 5.4 | 7 | 5.9 | 10.4 | 16.69 | 7.36 | 50.3 | 0.03 | 107.2 | 50 | 395 |
| CDA River | 2598 | DTASJL | 6/23/98 | 13:30:13 | 5.4 | 6 | 6.9 | 10.44 | 15.79 | 7.33 | 45.2 | 0.03 | 105.6 | 50 | 396 |
| CDA River | 2598 | DTASJL | 6/23/98 | 13:30:13 | 5.4 | 5 | 7.9 | 10.5 | 15.54 | 7.28 | 48 | 0.03 | 105.6 | 112 | 397 |
| CDA River | 2598 | DTASJL | 6/23/98 | 13:30:13 | 5.4 | 4 | 8.9 | 10.49 | 14.86 | 7.21 | 47.1 | 0.03 | 104 | 54 | 399 |
| CDA River | 2598 | DTASJL | 6/23/98 | 13:30:13 | 5.4 | 3 | 9.9 | 10.46 | 14.74 | 7.15 | 48.1 | 0.03 | 103.4 | 42 | 400 |
| CDA River | 2598 | DTASJL | 6/23/98 | 13:30:13 | 5.4 | 2 | 10.9 | 10.32 | 14.16 | 7.08 | 48.3 | 0.03 | 100.8 | 126 | 401 |
| CDA River | 2598 | DTASJL | 6/23/98 | 13:30:13 | 5.4 | 1 | 11.9 | 9.96 | 12.44 | 6.94 | 42.5 | 0.03 | 93.6 | 29 | 407 |
| | | | | | | | | | | | | | | | |
| CDA River | 2798 | ASDNBH | 7/8/98 | 10:29:22 | 5.4 | 11 | 0.4 | 9.23 | 22.99 | 7.87 | 50.4 | 0.03 | 107.4 | 126 | 324 |
| CDA River | 2798 | ASDNBH | 7/8/98 | 10:29:22 | 5.4 | 10 | 1.4 | 9.26 | 22.92 | 7.96 | 51.2 | 0.03 | 107.5 | 112 | 319 |
| CDA River | 2798 | ASDNBH | 7/8/98 | 10:29:22 | 5.4 | 9 | 2.4 | 9.26 | 22.45 | 7.89 | 52.2 | 0.03 | 106.6 | 133 | 321 |
| CDA River | 2798 | ASDNBH | 7/8/98 | 10:29:22 | 5.4 | 8 | 3.4 | 9.59 | 21.86 | 7.9 | 56.9 | 0.04 | 109.1 | 129 | 322 |
| CDA River | 2798 | ASDNBH | 7/8/98 | 10:29:22 | 5.4 | 7 | 4.4 | 9.52 | 21.39 | 7.81 | 48.4 | 0.03 | 107.4 | 100 | 322 |
| CDA River | 2798 | ASDNBH | 7/8/98 | 10:29:22 | 5.4 | 6 | 5.4 | 10.51 | 19.06 | 7.87 | 54.2 | 0.03 | 113.3 | 208 | 322 |
| CDA River | 2798 | ASDNBH | 7/8/98 | 10:29:22 | 5.4 | 5 | 6.4 | 10.68 | 17.95 | 7.92 | 47.6 | 0.03 | 112.5 | 201 | 320 |
| CDA River | 2798 | ASDNBH | 7/8/98 | 10:29:22 | 5.4 | 4 | 7.4 | 10.64 | 16.93 | 7.72 | 45.5 | 0.03 | 109.8 | 112 | 323 |
| CDA River | 2798 | ASDNBH | 7/8/98 | 10:29:22 | 5.4 | 3 | 8.4 | 10.45 | 16.19 | 7.54 | 44.1 | 0.03 | 106.2 | 138 | 325 |
| CDA River | 2798 | ASDNBH | 7/8/98 | 10:29:22 | 5.4 | 2 | 9.4 | 10.16 | 15.96 | 7.41 | 43.8 | 0.03 | 102.7 | 153 | 326 |
| CDA River | 2798 | ASDNBH | 7/8/98 | 10:29:22 | 5.4 | 1 | 10.4 | 9.81 | 16.09 | 7.3 | 43.3 | 0.03 | 99.4 | 550 | 327 |
| | | | | | | | | | | | | | | | |
| CDA River | 2998 | ASBH | 7/20/98 | 10:55:07 | 4.6 | 12 | 0.3 | 9.01 | 23.86 | 7.85 | 54.8 | 0.04 | 106.4 | 47 | 333 |
| CDA River | 2998 | ASBH | 7/20/98 | 10:55:07 | 4.6 | 11 | 1.3 | 9.05 | 23.6 | 7.87 | 55 | 0.04 | 106.3 | 108 | 332 |
| CDA River | 2998 | ASBH | 7/20/98 | 10:55:07 | 4.6 | 10 | 2.3 | 9.13 | 23.37 | 7.89 | 59.5 | 0.04 | 106.8 | 51 | 333 |
| CDA River | 2998 | ASBH | 7/20/98 | 10:55:07 | 4.6 | 9 | 3.3 | 9.15 | 23.29 | 7.88 | 63.1 | 0.04 | 106.9 | 56 | 333 |
| CDA River | 2998 | ASBH | 7/20/98 | 10:55:07 | 4.6 | 8 | 4.3 | 9.05 | 23.08 | 7.81 | 63.3 | 0.04 | 105.2 | 57 | 336 |
| CDA River | 2998 | ASBH | 7/20/98 | 10:55:07 | 4.6 | 7 | 5.3 | 8.94 | 22.31 | 7.59 | 65.3 | 0.04 | 102.5 | 34 | 339 |
| CDA River | 2998 | ASBH | 7/20/98 | 10:55:07 | 4.6 | 6 | 6.3 | 10.21 | 19.61 | 7.9 | 49.5 | 0.03 | 111.1 | 141 | 335 |
| CDA River | 2998 | ASBH | 7/20/98 | 10:55:07 | 4.6 | 5 | 7.3 | 10.35 | 18.9 | 7.87 | 48.8 | 0.03 | 111 | 102 | 334 |
| CDA River | 2998 | ASBH | 7/20/98 | 10:55:07 | 4.6 | 4 | 8.3 | 10.54 | 18.25 | 7.76 | 48.3 | 0.03 | 111.6 | 108 | 338 |
| CDA River | 2998 | ASBH | 7/20/98 | 10:55:07 | 4.6 | 3 | 9.3 | 9.66 | 16.91 | 7.21 | 48.7 | 0.03 | 99.4 | 110 | 346 |
| CDA River | 2998 | ASBH | 7/20/98 | 10:55:07 | 4.6 | 2 | 10.3 | 9.16 | 14.81 | 7.06 | 46.3 | 0.03 | 90.2 | 138 | 347 |
| CDA River | 2998 | ASBH | 7/20/98 | 10:55:07 | 4.6 | 1 | 11.3 | 8.12 | 13.91 | 6.95 | 46.4 | 0.03 | 78.4 | 244 | 347 |
| | | | | | | | | | | | | | | | |
| CDA River | 3298 | DBAS | 8/10/98 | 10:52:11 | 6.6 | 13 | 0.3 | 8.62 | 24.59 | 7.71 | 64.6 | 0.04 | 103.1 | 47 | 343 |
| CDA River | 3298 | DBAS | 8/10/98 | 10:52:11 | 6.6 | 12 | 1 | 8.67 | 24.09 | 7.73 | 64.6 | 0.04 | 102.7 | 46 | 342 |

| | | | | | | | | | | | | | | | |
|-----------|------|--------|---------|----------|-----|----|------|------|-------|------|------|------|-------|-----|-----|
| CDA River | 3298 | DBAS | 8/10/98 | 10:52:11 | 6.6 | 11 | 1.9 | 8.7 | 23.84 | 7.71 | 65.5 | 0.04 | 102.6 | 27 | 343 |
| CDA River | 3298 | DBAS | 8/10/98 | 10:52:11 | 6.6 | 10 | 2.8 | 8.7 | 23.82 | 7.71 | 65.9 | 0.04 | 102.5 | 44 | 343 |
| CDA River | 3298 | DBAS | 8/10/98 | 10:52:11 | 6.6 | 9 | 3.7 | 8.71 | 23.78 | 7.71 | 65.5 | 0.04 | 102.6 | 102 | 343 |
| CDA River | 3298 | DBAS | 8/10/98 | 10:52:11 | 6.6 | 8 | 4.8 | 8.72 | 23.76 | 7.7 | 66.2 | 0.04 | 102.7 | 37 | 344 |
| CDA River | 3298 | DBAS | 8/10/98 | 10:52:11 | 6.6 | 7 | 5.7 | 8.73 | 23.75 | 7.67 | 67.3 | 0.04 | 102.8 | 36 | 345 |
| CDA River | 3298 | DBAS | 8/10/98 | 10:52:11 | 6.6 | 6 | 6.7 | 8.73 | 23.75 | 7.64 | 68.5 | 0.04 | 102.8 | 47 | 346 |
| CDA River | 3298 | DBAS | 8/10/98 | 10:52:11 | 6.6 | 5 | 7.7 | 8.17 | 23.53 | 7.44 | 71 | 0.05 | 95.8 | 125 | 351 |
| CDA River | 3298 | DBAS | 8/10/98 | 10:52:11 | 6.6 | 4 | 8.7 | 9.57 | 19.38 | 7.33 | 50.7 | 0.03 | 103.6 | 42 | 353 |
| CDA River | 3298 | DBAS | 8/10/98 | 10:52:11 | 6.6 | 3 | 9.8 | 9.75 | 18.95 | 7.33 | 50 | 0.03 | 104.6 | 50 | 353 |
| CDA River | 3298 | DBAS | 8/10/98 | 10:52:11 | 6.6 | 2 | 10.8 | 9.69 | 17.86 | 7.28 | 49 | 0.03 | 101.6 | 132 | 353 |
| CDA River | 3298 | DBAS | 8/10/98 | 10:52:11 | 6.6 | 1 | 11.8 | 9.14 | 16.86 | 7.21 | 48.7 | 0.03 | 93.9 | 206 | 354 |
| | | | | | | | | | | | | | | | |
| CDA River | 3498 | ASDNGL | 8/25/98 | 11:44:46 | 7 | 13 | 0.2 | 9.13 | 22.93 | 7.93 | 57.7 | 0.04 | 106.4 | 34 | 331 |
| CDA River | 3498 | ASDNGL | 8/25/98 | 11:44:46 | 7 | 12 | 1 | 9.17 | 22.29 | 7.96 | 57.5 | 0.04 | 105.5 | 42 | 330 |
| CDA River | 3498 | ASDNGL | 8/25/98 | 11:44:46 | 7 | 11 | 2 | 9.26 | 21.83 | 7.95 | 57.7 | 0.04 | 105.6 | 51 | 332 |
| CDA River | 3498 | ASDNGL | 8/25/98 | 11:44:46 | 7 | 10 | 3 | 9.24 | 21.76 | 7.91 | 58.6 | 0.04 | 105.2 | 107 | 333 |
| CDA River | 3498 | ASDNGL | 8/25/98 | 11:44:46 | 7 | 9 | 4 | 9.24 | 21.7 | 7.9 | 59.2 | 0.04 | 105.1 | 116 | 333 |
| CDA River | 3498 | ASDNGL | 8/25/98 | 11:44:46 | 7 | 8 | 5 | 9.24 | 21.65 | 7.87 | 59.8 | 0.04 | 105 | 118 | 333 |
| CDA River | 3498 | ASDNGL | 8/25/98 | 11:44:46 | 7 | 7 | 6 | 9.23 | 21.6 | 7.85 | 59.2 | 0.04 | 104.8 | 108 | 334 |
| CDA River | 3498 | ASDNGL | 8/25/98 | 11:44:46 | 7 | 6 | 7 | 9.19 | 21.48 | 7.73 | 62.3 | 0.04 | 104.1 | 55 | 338 |
| CDA River | 3498 | ASDNGL | 8/25/98 | 11:44:46 | 7 | 5 | 8 | 9.01 | 21.39 | 7.59 | 70 | 0.04 | 101.9 | 29 | 342 |
| CDA River | 3498 | ASDNGL | 8/25/98 | 11:44:46 | 7 | 4 | 9 | 8.9 | 21.26 | 7.5 | 80.4 | 0.05 | 100.4 | 107 | 345 |
| CDA River | 3498 | ASDNGL | 8/25/98 | 11:44:46 | 7 | 3 | 10 | 8.8 | 21.09 | 7.33 | 85.9 | 0.06 | 98.9 | 118 | 350 |
| CDA River | 3498 | ASDNGL | 8/25/98 | 11:44:46 | 7 | 2 | 11 | 8.74 | 16.59 | 6.82 | 47 | 0.03 | 89.8 | 114 | 357 |
| CDA River | 3498 | ASDNGL | 8/25/98 | 11:44:46 | 7 | 1 | 11.6 | 7.89 | 16.04 | 6.78 | 46.2 | 0.03 | 80 | 737 | 358 |
| | | | | | | | | | | | | | | | |
| CDA River | 3598 | DTAS | 9/2/98 | 11:23:48 | 7.1 | 12 | 0.3 | 9.2 | 22.43 | 7.96 | 59.9 | 0.04 | 106.2 | 101 | 323 |
| CDA River | 3598 | DTAS | 9/2/98 | 11:23:48 | 7.1 | 11 | 1.3 | 9.23 | 21.99 | 7.9 | 61 | 0.04 | 105.6 | 47 | 327 |
| CDA River | 3598 | DTAS | 9/2/98 | 11:23:48 | 7.1 | 10 | 2.3 | 9.05 | 21.55 | 7.75 | 69.5 | 0.04 | 102.7 | 47 | 333 |
| CDA River | 3598 | DTAS | 9/2/98 | 11:23:48 | 7.1 | 9 | 3.3 | 8.95 | 21.46 | 7.72 | 73.7 | 0.05 | 101.5 | 112 | 334 |
| CDA River | 3598 | DTAS | 9/2/98 | 11:23:48 | 7.1 | 8 | 4.3 | 9.13 | 21.39 | 7.82 | 64.4 | 0.04 | 103.4 | 47 | 330 |
| CDA River | 3598 | DTAS | 9/2/98 | 11:23:48 | 7.1 | 7 | 5.3 | 9.21 | 21.37 | 7.87 | 60.3 | 0.04 | 104.2 | 51 | 329 |
| CDA River | 3598 | DTAS | 9/2/98 | 11:23:48 | 7.1 | 6 | 6.3 | 9.2 | 21.32 | 7.84 | 59.6 | 0.04 | 104 | 122 | 330 |
| CDA River | 3598 | DTAS | 9/2/98 | 11:23:48 | 7.1 | 5 | 7.3 | 9.23 | 21.3 | 7.81 | 59.2 | 0.04 | 104.3 | 130 | 331 |
| CDA River | 3598 | DTAS | 9/2/98 | 11:23:48 | 7.1 | 4 | 8.3 | 9.15 | 21.25 | 7.62 | 59.6 | 0.04 | 103.2 | 51 | 338 |
| CDA River | 3598 | DTAS | 9/2/98 | 11:23:48 | 7.1 | 3 | 9.3 | 9.06 | 21.21 | 7.41 | 60.4 | 0.04 | 102.2 | 100 | 345 |
| CDA River | 3598 | DTAS | 9/2/98 | 11:23:48 | 7.1 | 2 | 10.3 | 7.94 | 19.4 | 6.96 | 56.1 | 0.04 | 86.4 | 118 | 356 |
| CDA River | 3598 | DTAS | 9/2/98 | 11:23:48 | 7.1 | 1 | 11.3 | 7.74 | 17.32 | 6.87 | 48.7 | 0.03 | 80.8 | 759 | 356 |
| | | | | | | | | | | | | | | | |
| CDA River | 3998 | ASKB | 9/30/98 | 12:55:00 | 7.4 | 11 | 0.3 | 9.24 | 18.73 | 7.76 | 62.9 | 0.04 | 98.9 | 52 | 335 |
| CDA River | 3998 | ASKB | 9/30/98 | 12:55:00 | 7.4 | 10 | 1.9 | 9.28 | 18.08 | 7.77 | 63 | 0.04 | 98 | 104 | 336 |
| CDA River | 3998 | ASKB | 9/30/98 | 12:55:00 | 7.4 | 9 | 2.9 | 9.29 | 18.05 | 7.75 | 63.5 | 0.04 | 98.1 | 133 | 338 |
| CDA River | 3998 | ASKB | 9/30/98 | 12:55:00 | 7.4 | 8 | 3.9 | 9.32 | 18.03 | 7.75 | 65.3 | 0.04 | 98.4 | 108 | 338 |
| CDA River | 3998 | ASKB | 9/30/98 | 12:55:00 | 7.4 | 7 | 4.9 | 9.34 | 17.98 | 7.73 | 65.1 | 0.04 | 98.5 | 119 | 339 |

| | | | | | | | | | | | | | | | |
|-----------|------|--------|----------|----------|-----|----|------|------|-------|------|------|------|------|-----|-----|
| CDA River | 3998 | ASKB | 9/30/98 | 12:55:00 | 7.4 | 6 | 5.9 | 9.33 | 17.9 | 7.7 | 66 | 0.04 | 98.2 | 123 | 340 |
| CDA River | 3998 | ASKB | 9/30/98 | 12:55:00 | 7.4 | 5 | 7 | 9.32 | 17.83 | 7.63 | 72.4 | 0.05 | 98 | 107 | 343 |
| CDA River | 3998 | ASKB | 9/30/98 | 12:55:00 | 7.4 | 4 | 7.9 | 9.26 | 17.62 | 7.57 | 74.8 | 0.05 | 96.9 | 104 | 345 |
| CDA River | 3998 | ASKB | 9/30/98 | 12:55:00 | 7.4 | 3 | 8.9 | 9.23 | 17.52 | 7.53 | 78.2 | 0.05 | 96.4 | 140 | 345 |
| CDA River | 3998 | ASKB | 9/30/98 | 12:55:00 | 7.4 | 2 | 9.9 | 8.96 | 17.37 | 7.45 | 87.7 | 0.06 | 93.2 | 135 | 347 |
| CDA River | 3998 | ASKB | 9/30/98 | 12:55:00 | 7.4 | 1 | 10.9 | 8.85 | 17.32 | 7.39 | 89.7 | 0.06 | 92.1 | 818 | 353 |
| | | | | | | | | | | | | | | | |
| CDA River | 4298 | DTASKB | 10/20/98 | 9:51:12 | 7.1 | 12 | 0.4 | 9.37 | 12.45 | 7.36 | 58.5 | 0.04 | 86.8 | 34 | 357 |
| CDA River | 4298 | DTASKB | 10/20/98 | 9:51:12 | 7.1 | 11 | 0.8 | 9.38 | 12.43 | 7.38 | 58.5 | 0.04 | 86.8 | 30 | 356 |
| CDA River | 4298 | DTASKB | 10/20/98 | 9:51:12 | 7.1 | 10 | 1.8 | 9.36 | 12.43 | 7.38 | 58.6 | 0.04 | 86.6 | 44 | 356 |
| CDA River | 4298 | DTASKB | 10/20/98 | 9:51:12 | 7.1 | 9 | 2.8 | 9.36 | 12.41 | 7.34 | 58.6 | 0.04 | 86.5 | 39 | 358 |
| CDA River | 4298 | DTASKB | 10/20/98 | 9:51:12 | 7.1 | 8 | 3.8 | 9.34 | 12.4 | 7.34 | 58.3 | 0.04 | 86.4 | 30 | 357 |
| CDA River | 4298 | DTASKB | 10/20/98 | 9:51:12 | 7.1 | 7 | 4.8 | 9.26 | 12.37 | 7.32 | 58.3 | 0.04 | 85.6 | 46 | 357 |
| CDA River | 4298 | DTASKB | 10/20/98 | 9:51:12 | 7.1 | 6 | 5.8 | 9.23 | 12.3 | 7.31 | 59 | 0.04 | 85.1 | 47 | 356 |
| CDA River | 4298 | DTASKB | 10/20/98 | 9:51:12 | 7.1 | 5 | 6.8 | 9.23 | 12.2 | 7.3 | 59.2 | 0.04 | 85 | 31 | 356 |
| CDA River | 4298 | DTASKB | 10/20/98 | 9:51:12 | 7.1 | 4 | 7.8 | 9.36 | 11.84 | 7.3 | 61.3 | 0.04 | 85.4 | 42 | 356 |
| CDA River | 4298 | DTASKB | 10/20/98 | 9:51:12 | 7.1 | 3 | 8.8 | 9.51 | 11.4 | 7.27 | 66.5 | 0.04 | 86 | 30 | 356 |
| CDA River | 4298 | DTASKB | 10/20/98 | 9:51:12 | 7.1 | 2 | 9.8 | 9.63 | 11.17 | 7.25 | 68.4 | 0.04 | 86.5 | 26 | 354 |
| CDA River | 4298 | DTASKB | 10/20/98 | 9:51:12 | 7.1 | 1 | 10.8 | 9.73 | 10.63 | 7.22 | 74.3 | 0.05 | 86.3 | 218 | 353 |
| | | | | | | | | | | | | | | | |
| CDA River | 4598 | KB AS | 11/12/98 | 12:34:00 | 5.5 | 12 | 0.3 | 8.53 | 9.55 | 7.37 | 57.2 | 0.04 | 74.3 | 30 | 340 |
| CDA River | 4598 | KB AS | 11/12/98 | 12:34:00 | 5.5 | 11 | 1 | 8.51 | 9.55 | 7.33 | 57.3 | 0.04 | 74.1 | 43 | 342 |
| CDA River | 4598 | KB AS | 11/12/98 | 12:34:00 | 5.5 | 10 | 2 | 8.52 | 9.55 | 7.36 | 57.4 | 0.04 | 74.2 | 38 | 340 |
| CDA River | 4598 | KB AS | 11/12/98 | 12:34:00 | 5.5 | 9 | 3 | 8.53 | 9.55 | 7.33 | 57.7 | 0.04 | 74.3 | 42 | 341 |
| CDA River | 4598 | KB AS | 11/12/98 | 12:34:00 | 5.5 | 8 | 4 | 8.52 | 9.55 | 7.31 | 57.6 | 0.04 | 74.2 | 46 | 342 |
| CDA River | 4598 | KB AS | 11/12/98 | 12:34:00 | 5.5 | 7 | 5 | 8.51 | 9.53 | 7.3 | 57.8 | 0.04 | 74.1 | 46 | 343 |
| CDA River | 4598 | KB AS | 11/12/98 | 12:34:00 | 5.5 | 6 | 6 | 8.55 | 9.43 | 7.3 | 58.6 | 0.04 | 74.2 | 42 | 342 |
| CDA River | 4598 | KB AS | 11/12/98 | 12:34:00 | 5.5 | 5 | 7 | 8.53 | 9.46 | 7.28 | 58.2 | 0.04 | 74.1 | 112 | 343 |
| CDA River | 4598 | KB AS | 11/12/98 | 12:34:00 | 5.5 | 4 | 8 | 8.65 | 9.07 | 7.3 | 63.1 | 0.04 | 74.4 | 119 | 340 |
| CDA River | 4598 | KB AS | 11/12/98 | 12:34:00 | 5.5 | 3 | 9 | 8.74 | 8.68 | 7.28 | 66.5 | 0.04 | 74.5 | 101 | 339 |
| CDA River | 4598 | KB AS | 11/12/98 | 12:34:00 | 5.5 | 2 | 9.9 | 9.21 | 6.91 | 7.22 | 88.4 | 0.06 | 75.2 | 307 | 339 |
| CDA River | 4598 | KB AS | 11/12/98 | 12:34:00 | 5.5 | 1 | 11 | 9.23 | 6.99 | 7.21 | 90 | 0.06 | 81.1 | 9 | 342 |

| Location | Phase | Samplers | Date | Time | Secchi (m) | Sequence | Depth (m) | Dissolved Oxygen (mg/L) | Temperature (C) | pH | Conductivity (μs/cm) | TDS | Saturated Dissolved Oxygen | Stabilization Time | Redox |
|--------------|-------|----------|---------|----------|------------|----------|-----------|-------------------------|-----------------|------|----------------------|------|----------------------------|--------------------|-------|
| Mid Lake CDA | 1098 | DBRP | 3/13/98 | 12:25:26 | 1.9 | 18 | 0.5 | 12.84 | 4.14 | 6.84 | 44.3 | 0.01 | 149.5 | 4 | 375 |
| Mid Lake CDA | 1098 | DBRP | 3/13/98 | 12:25:26 | 1.9 | 17 | 1.6 | 12.87 | 3.98 | 7.01 | 44.3 | 0.03 | 97.3 | 115 | 392 |
| Mid Lake CDA | 1098 | DBRP | 3/13/98 | 12:25:26 | 1.9 | 16 | 2.6 | 12.79 | 3.79 | 6.96 | 44.3 | 0.03 | 96.3 | 116 | 395 |
| Mid Lake CDA | 1098 | DBRP | 3/13/98 | 12:25:26 | 1.9 | 15 | 3.6 | 12.79 | 3.84 | 7 | 44.1 | 0.03 | 96.4 | 108 | 392 |
| Mid Lake CDA | 1098 | DBRP | 3/13/98 | 12:25:26 | 1.9 | 14 | 4.6 | 12.83 | 3.89 | 6.89 | 44.3 | 0.03 | 96.8 | 121 | 398 |
| Mid Lake CDA | 1098 | DBRP | 3/13/98 | 12:25:26 | 1.9 | 13 | 5.6 | 12.79 | 3.86 | 6.96 | 44.3 | 0.03 | 96.5 | 53 | 392 |
| Mid Lake CDA | 1098 | DBRP | 3/13/98 | 12:25:26 | 1.9 | 12 | 6.6 | 12.78 | 3.76 | 6.92 | 44.5 | 0.03 | 96.1 | 102 | 395 |
| Mid Lake CDA | 1098 | DBRP | 3/13/98 | 12:25:26 | 1.9 | 11 | 7.6 | 12.78 | 3.76 | 6.99 | 44.4 | 0.03 | 96.1 | 126 | 390 |

| | | | | | | | | | | | | | | | |
|--------------|------|--------|---------|----------|-----|----|------|-------|-------|------|------|------|-------|-----|-----|
| Mid Lake CDA | 1098 | DBRP | 3/13/98 | 12:25:26 | 1.9 | 10 | 8.6 | 12.8 | 3.76 | 7 | 44.5 | 0.03 | 96.2 | 50 | 389 |
| Mid Lake CDA | 1098 | DBRP | 3/13/98 | 12:25:26 | 1.9 | 9 | 9.6 | 12.77 | 3.78 | 6.96 | 44.3 | 0.03 | 96.1 | 111 | 391 |
| Mid Lake CDA | 1098 | DBRP | 3/13/98 | 12:25:26 | 1.9 | 8 | 10.6 | 12.77 | 3.79 | 6.94 | 44.4 | 0.03 | 96.2 | 114 | 391 |
| Mid Lake CDA | 1098 | DBRP | 3/13/98 | 12:25:26 | 1.9 | 7 | 11.6 | 12.76 | 3.79 | 6.96 | 44.5 | 0.03 | 96.1 | 159 | 389 |
| Mid Lake CDA | 1098 | DBRP | 3/13/98 | 12:25:26 | 1.9 | 6 | 12.6 | 12.79 | 3.78 | 6.95 | 44.6 | 0.03 | 96.2 | 120 | 389 |
| Mid Lake CDA | 1098 | DBRP | 3/13/98 | 12:25:26 | 1.9 | 5 | 13.6 | 12.79 | 3.79 | 6.88 | 44.6 | 0.03 | 96.3 | 107 | 391 |
| Mid Lake CDA | 1098 | DBRP | 3/13/98 | 12:25:26 | 1.9 | 4 | 14.6 | 12.79 | 3.78 | 6.9 | 44.6 | 0.03 | 96.2 | 109 | 390 |
| Mid Lake CDA | 1098 | DBRP | 3/13/98 | 12:25:26 | 1.9 | 3 | 15.7 | 12.74 | | 6.9 | 44.5 | 0.03 | 96 | 146 | 388 |
| Mid Lake CDA | 1098 | DBRP | 3/13/98 | 12:25:26 | 1.9 | 2 | 16.6 | 12.73 | 3.83 | 6.87 | 44.6 | 0.03 | 95.9 | 135 | 388 |
| Mid Lake CDA | 1098 | DBRP | 3/13/98 | 12:25:26 | 1.9 | 1 | 17.6 | 12.77 | 3.83 | 6.88 | 44.7 | 0.03 | 96.2 | 227 | 387 |
| | | | | | | | | | | | | | | | |
| Mid Lake CDA | 1498 | DBAS | 4/8/98 | 13:44:51 | 2.2 | 19 | 0.5 | 12.45 | 8.56 | 7.14 | 39.4 | 0.03 | 106.7 | 111 | 410 |
| Mid Lake CDA | 1498 | DBAS | 4/8/98 | 13:44:51 | 2.2 | 18 | 1.5 | 12.41 | 8.15 | 7.08 | 39.1 | 0.03 | 105.2 | 133 | 415 |
| Mid Lake CDA | 1498 | DBAS | 4/8/98 | 13:44:51 | 2.2 | 17 | 2.5 | 12.6 | 7.6 | 7.08 | 39.2 | 0.03 | 105.4 | 126 | 416 |
| Mid Lake CDA | 1498 | DBAS | 4/8/98 | 13:44:51 | 2.2 | 16 | 3.5 | 12.56 | 7.12 | 7.08 | 39 | 0.02 | 103.8 | 39 | 415 |
| Mid Lake CDA | 1498 | DBAS | 4/8/98 | 13:44:51 | 2.2 | 15 | 4.6 | 12.48 | 7.02 | 7.02 | 39 | 0.02 | 102.9 | 110 | 417 |
| Mid Lake CDA | 1498 | DBAS | 4/8/98 | 13:44:51 | 2.2 | 14 | 5.5 | 12.31 | 6.99 | 7.06 | 39.1 | 0.03 | 101.5 | 141 | 415 |
| Mid Lake CDA | 1498 | DBAS | 4/8/98 | 13:44:51 | 2.2 | 13 | 6.4 | 12.3 | 6.91 | 7.02 | 39.2 | 0.03 | 101.2 | 112 | 416 |
| Mid Lake CDA | 1498 | DBAS | 4/8/98 | 13:44:51 | 2.2 | 12 | 7.4 | 12.21 | 6.66 | 6.96 | 39.3 | 0.03 | 99.8 | 103 | 418 |
| Mid Lake CDA | 1498 | DBAS | 4/8/98 | 13:44:51 | 2.2 | 11 | 8.6 | 12.24 | 6.61 | 6.92 | 39.4 | 0.03 | 99.9 | 109 | 419 |
| Mid Lake CDA | 1498 | DBAS | 4/8/98 | 13:44:51 | 2.2 | 10 | 9.5 | 12.21 | 6.53 | 6.94 | 39.5 | 0.03 | 99.5 | 113 | 417 |
| Mid Lake CDA | 1498 | DBAS | 4/8/98 | 13:44:51 | 2.2 | 9 | 10.5 | 12.05 | 6.3 | 6.94 | 39.9 | 0.03 | 97.6 | 121 | 416 |
| Mid Lake CDA | 1498 | DBAS | 4/8/98 | 13:44:51 | 2.2 | 8 | 11.6 | 12.03 | 6.23 | 6.9 | 39.9 | 0.03 | 97.3 | 135 | 417 |
| Mid Lake CDA | 1498 | DBAS | 4/8/98 | 13:44:51 | 2.2 | 7 | 12.5 | 12.02 | 5.97 | 6.88 | 39.8 | 0.03 | 96.6 | 121 | 417 |
| Mid Lake CDA | 1498 | DBAS | 4/8/98 | 13:44:51 | 2.2 | 6 | 13.6 | 12.02 | 5.8 | 6.83 | 40.9 | 0.03 | 96.1 | 225 | 419 |
| Mid Lake CDA | 1498 | DBAS | 4/8/98 | 13:44:51 | 2.2 | 5 | 14.5 | 12.08 | 5.64 | 6.9 | 42.7 | 0.03 | 96.2 | 119 | 415 |
| Mid Lake CDA | 1498 | DBAS | 4/8/98 | 13:44:51 | 2.2 | 4 | 15.5 | 12 | 5.59 | 6.87 | 43 | 0.03 | 95.4 | 202 | 415 |
| Mid Lake CDA | 1498 | DBAS | 4/8/98 | 13:44:51 | 2.2 | 3 | 16.5 | 11.95 | 5.57 | 6.87 | 43.2 | 0.03 | 95 | 103 | 414 |
| Mid Lake CDA | 1498 | DBAS | 4/8/98 | 13:44:51 | 2.2 | 2 | 17.5 | 11.51 | 5.46 | 6.84 | 43.9 | 0.03 | 91.2 | 129 | 414 |
| Mid Lake CDA | 1498 | DBAS | 4/8/98 | 13:44:51 | 2.2 | 1 | 18.5 | 11.51 | 5.46 | 6.82 | 44 | 0.03 | 91.2 | 358 | 414 |
| | | | | | | | | | | | | | | | |
| Mid Lake CDA | 1698 | DBASRP | 4/21/98 | 14:41:39 | 2.7 | 13 | 0.3 | 12.01 | 11.69 | 7.24 | 42.7 | 0.03 | 110.3 | 52 | 396 |
| Mid Lake CDA | 1698 | DBASRP | 4/21/98 | 14:41:39 | 2.7 | 12 | 1.5 | 12.01 | 9.63 | 7.19 | 42.2 | 0.03 | 105.1 | 113 | 402 |
| Mid Lake CDA | 1698 | DBASRP | 4/21/98 | 14:41:39 | 2.7 | 11 | 3 | 12.12 | 8.58 | 7.13 | 42.1 | 0.03 | 103.4 | 109 | 405 |
| Mid Lake CDA | 1698 | DBASRP | 4/21/98 | 14:41:39 | 2.7 | 10 | 4.4 | 12 | 7.32 | 7.04 | 43.1 | 0.03 | 99.3 | 55 | 405 |
| Mid Lake CDA | 1698 | DBASRP | 4/21/98 | 14:41:39 | 2.7 | 9 | 6 | 11.88 | 6.69 | 6.95 | 45 | 0.03 | 96.8 | 103 | 409 |
| Mid Lake CDA | 1698 | DBASRP | 4/21/98 | 14:41:39 | 2.7 | 8 | 7.4 | 11.88 | 6.53 | 6.93 | 46.2 | 0.03 | 96.4 | 133 | 409 |
| Mid Lake CDA | 1698 | DBASRP | 4/21/98 | 14:41:39 | 2.7 | 7 | 9 | 11.9 | 6.36 | 6.88 | 47.1 | 0.03 | 96.2 | 112 | 410 |
| Mid Lake CDA | 1698 | DBASRP | 4/21/98 | 14:41:39 | 2.7 | 6 | 10.5 | 11.87 | 6.31 | 6.88 | 47.2 | 0.03 | 95.8 | 154 | 409 |
| Mid Lake CDA | 1698 | DBASRP | 4/21/98 | 14:41:39 | 2.7 | 5 | 12 | 11.87 | 6.2 | 6.91 | 47.7 | 0.03 | 95.5 | 130 | 406 |
| Mid Lake CDA | 1698 | DBASRP | 4/21/98 | 14:41:39 | 2.7 | 4 | 13.5 | 11.82 | 6.15 | 6.91 | 48.2 | 0.03 | 95 | 134 | 405 |
| Mid Lake CDA | 1698 | DBASRP | 4/21/98 | 14:41:39 | 2.7 | 3 | 15 | 11.72 | 6 | 6.82 | 47.8 | 0.03 | 93.8 | 124 | 407 |
| Mid Lake CDA | 1698 | DBASRP | 4/21/98 | 14:41:39 | 2.7 | 2 | 16.6 | 11.62 | 5.42 | 6.87 | 49.9 | 0.03 | 91.7 | 144 | 402 |
| Mid Lake CDA | 1698 | DBASRP | 4/21/98 | 14:41:39 | 2.7 | 1 | 18.2 | 11.21 | 5.36 | 6.83 | 51 | 0.03 | 88.3 | 235 | 404 |

| | | | | | | | | | | | | | | | | |
|--------------|------|--------|---------|----------|-----|----|------|-------|-------|------|------|------|-------|-----|-----|--|
| | | | | | | | | | | | | | | | | |
| Mid Lake CDA | 2198 | ASJLDT | 5/26/98 | 12:58:43 | 3.4 | 13 | 0.3 | 11.17 | 11.95 | 7.17 | 35 | 0.02 | 104.5 | 49 | 382 | |
| Mid Lake CDA | 2198 | ASJLDT | 5/26/98 | 12:58:43 | 3.4 | 12 | 2 | 11.16 | 11.89 | 7.17 | 35.5 | 0.02 | 104.3 | 54 | 382 | |
| Mid Lake CDA | 2198 | ASJLDT | 5/26/98 | 12:58:43 | 3.4 | 11 | 3.5 | 11.13 | 11.43 | 7.06 | 36.8 | 0.02 | 102.9 | 40 | 384 | |
| Mid Lake CDA | 2198 | ASJLDT | 5/26/98 | 12:58:43 | 3.4 | 10 | 5 | 11.12 | 11.13 | 7.08 | 34.5 | 0.02 | 102.1 | 50 | 381 | |
| Mid Lake CDA | 2198 | ASJLDT | 5/26/98 | 12:58:43 | 3.4 | 9 | 6.5 | 11.12 | 11.1 | 7.07 | 34.2 | 0.02 | 102.1 | 129 | 379 | |
| Mid Lake CDA | 2198 | ASJLDT | 5/26/98 | 12:58:43 | 3.4 | 8 | 8 | 11.15 | 10.97 | 7.04 | 33.5 | 0.02 | 102 | 113 | 378 | |
| Mid Lake CDA | 2198 | ASJLDT | 5/26/98 | 12:58:43 | 3.4 | 7 | 9.5 | 11.05 | 9.76 | 6.96 | 35.5 | 0.02 | 98.2 | 102 | 378 | |
| Mid Lake CDA | 2198 | ASJLDT | 5/26/98 | 12:58:43 | 3.4 | 6 | 11 | 11.18 | 8.96 | 6.86 | 40.7 | 0.03 | 97.5 | 119 | 381 | |
| Mid Lake CDA | 2198 | ASJLDT | 5/26/98 | 12:58:43 | 3.4 | 5 | 12.5 | 11.22 | 8.45 | 6.88 | 43.3 | 0.03 | 96.7 | 111 | 377 | |
| Mid Lake CDA | 2198 | ASJLDT | 5/26/98 | 12:58:43 | 3.4 | 4 | 14 | 11.19 | 7.92 | 6.8 | 44.8 | 0.03 | 95.1 | 140 | 378 | |
| Mid Lake CDA | 2198 | ASJLDT | 5/26/98 | 12:58:43 | 3.4 | 3 | 15.5 | 11.09 | 7.32 | 6.77 | 46.5 | 0.03 | 92.9 | 152 | 375 | |
| Mid Lake CDA | 2198 | ASJLDT | 5/26/98 | 12:58:43 | 3.4 | 2 | 17 | 11.05 | 7.1 | 6.74 | 47.1 | 0.03 | 92.1 | 145 | 369 | |
| Mid Lake CDA | 2198 | ASJLDT | 5/26/98 | 12:58:43 | 3.4 | 1 | 18.8 | 10.3 | 6.26 | 6.61 | 49 | 0.03 | 84 | 156 | 366 | |
| | | | | | | | | | | | | | | | | |
| Mid Lake CDA | 2398 | DTJLAS | 6/8/98 | 12:11:07 | 2.9 | 11 | 0.4 | 10.86 | 16.72 | 7.61 | 38.6 | 0.02 | 111.9 | 49 | 375 | |
| Mid Lake CDA | 2398 | DTJLAS | 6/8/98 | 12:11:07 | 2.9 | 10 | 1.5 | 11.02 | 15.73 | 7.6 | 38.7 | 0.02 | 111.1 | 110 | 376 | |
| Mid Lake CDA | 2398 | DTJLAS | 6/8/98 | 12:11:07 | 2.9 | 9 | 3 | 10.94 | 15.39 | 7.51 | 39.2 | 0.03 | 109.5 | 103 | 379 | |
| Mid Lake CDA | 2398 | DTJLAS | 6/8/98 | 12:11:07 | 2.9 | 8 | 5 | 10.96 | 13.09 | 7.32 | 37.7 | 0.02 | 104.3 | 110 | 382 | |
| Mid Lake CDA | 2398 | DTJLAS | 6/8/98 | 12:11:07 | 2.9 | 7 | 7 | 10.97 | 12.5 | 7.26 | 41.8 | 0.03 | 103 | 114 | 385 | |
| Mid Lake CDA | 2398 | DTJLAS | 6/8/98 | 12:11:07 | 2.9 | 6 | 9 | 10.97 | 12.28 | 7.2 | 41.9 | 0.03 | 102.5 | 33 | 384 | |
| Mid Lake CDA | 2398 | DTJLAS | 6/8/98 | 12:11:07 | 2.9 | 5 | 11 | 10.88 | 11.5 | 7.17 | 36.7 | 0.02 | 99.8 | 121 | 383 | |
| Mid Lake CDA | 2398 | DTJLAS | 6/8/98 | 12:11:07 | 2.9 | 4 | 13 | 10.87 | 10.77 | 7.11 | 35.9 | 0.02 | 98.1 | 50 | 383 | |
| Mid Lake CDA | 2398 | DTJLAS | 6/8/98 | 12:11:07 | 2.9 | 3 | 15 | 10.54 | 8.92 | 7.02 | 39.9 | 0.03 | 91 | 118 | 385 | |
| Mid Lake CDA | 2398 | DTJLAS | 6/8/98 | 12:11:07 | 2.9 | 2 | 17 | 10.01 | 7.69 | 6.92 | 46.5 | 0.03 | 83.9 | 125 | 386 | |
| Mid Lake CDA | 2398 | DTJLAS | 6/8/98 | 12:11:07 | 2.9 | 1 | 19 | 9.63 | 8.04 | 6.92 | 47 | 0.03 | 81.3 | 236 | 383 | |
| | | | | | | | | | | | | | | | | |
| Mid Lake CDA | 2598 | DTJLAS | 6/23/98 | 14:06:28 | 5 | 11 | 0.2 | 9.91 | 19.71 | 7.53 | 45.7 | 0.03 | 108.7 | 49 | 417 | |
| Mid Lake CDA | 2598 | DTJLAS | 6/23/98 | 14:06:28 | 5 | 10 | 1 | 9.97 | 19.06 | 7.54 | 46 | 0.03 | 107.9 | 102 | 423 | |
| Mid Lake CDA | 2598 | DTJLAS | 6/23/98 | 14:06:28 | 5 | 9 | 3 | 10.62 | 17.15 | 7.49 | 48 | 0.03 | 110.5 | 53 | 428 | |
| Mid Lake CDA | 2598 | DTJLAS | 6/23/98 | 14:06:28 | 5 | 8 | 5 | 10.88 | 15.76 | 7.44 | 52.7 | 0.03 | 110 | 48 | 431 | |
| Mid Lake CDA | 2598 | DTJLAS | 6/23/98 | 14:06:28 | 5 | 7 | 7 | 10.84 | 14.86 | 7.35 | 46.3 | 0.03 | 107.5 | 118 | 434 | |
| Mid Lake CDA | 2598 | DTJLAS | 6/23/98 | 14:06:28 | 5 | 6 | 9 | 10.84 | 14.47 | 7.24 | 46.1 | 0.03 | 106.6 | 47 | 438 | |
| Mid Lake CDA | 2598 | DTJLAS | 6/23/98 | 14:06:28 | 5 | 5 | 11 | 10.88 | 13.81 | 7.16 | 45.8 | 0.03 | 105.4 | 102 | 440 | |
| Mid Lake CDA | 2598 | DTJLAS | 6/23/98 | 14:06:28 | 5 | 4 | 13 | 10.72 | 12.31 | 6.97 | 43.8 | 0.03 | 100.5 | 100 | 446 | |
| Mid Lake CDA | 2598 | DTJLAS | 6/23/98 | 14:06:28 | 5 | 3 | 15 | 9.99 | 10.51 | 6.79 | 43 | 0.03 | 89.7 | 130 | 450 | |
| Mid Lake CDA | 2598 | DTJLAS | 6/23/98 | 14:06:28 | 5 | 2 | 17 | 9.14 | 8.46 | 6.65 | 46.4 | 0.03 | 78.2 | 131 | 454 | |
| Mid Lake CDA | 2598 | DTJLAS | 6/23/98 | 14:06:28 | 5 | 1 | 19 | 8.81 | 8.02 | 6.59 | 47.9 | 0.03 | 74.5 | 152 | 457 | |
| | | | | | | | | | | | | | | | | |
| Mid Lake CDA | 2798 | DTASBH | 7/7/98 | 13:23:07 | 5.6 | 20 | 0.4 | 9.49 | 24.64 | 8.03 | 50.7 | 0.03 | 113.5 | 100 | 337 | |
| Mid Lake CDA | 2798 | DTASBH | 7/7/98 | 13:23:07 | 5.6 | 19 | 1 | 9.48 | 23.4 | 7.92 | 50.5 | 0.03 | 110.8 | 203 | 343 | |
| Mid Lake CDA | 2798 | DTASBH | 7/7/98 | 13:23:07 | 5.6 | 18 | 2 | 10.36 | 19.56 | 7.89 | 50.4 | 0.03 | 112.5 | 126 | 345 | |
| Mid Lake CDA | 2798 | DTASBH | 7/7/98 | 13:23:07 | 5.6 | 17 | 3 | 10.67 | 18.5 | 8.03 | 50.7 | 0.03 | 113.4 | 114 | 343 | |
| Mid Lake CDA | 2798 | DTASBH | 7/7/98 | 13:23:07 | 5.6 | 16 | 4 | 11.01 | 17.51 | 8.34 | 49.4 | 0.03 | 114.6 | 149 | 338 | |

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|--------------|------|--------|---------|----------|-----|----|------|-------|-------|------|------|------|-------|-----|-----|
| Mid Lake CDA | 2798 | DTASBH | 7/7/98 | 13:23:07 | 5.6 | 15 | 5 | 11 | 16.75 | 8.11 | 49.3 | 0.03 | 112.8 | 122 | 343 |
| Mid Lake CDA | 2798 | DTASBH | 7/7/98 | 13:23:07 | 5.6 | 14 | 6 | 10.95 | 16.58 | 8.08 | 48.3 | 0.03 | 111.9 | 124 | 344 |
| Mid Lake CDA | 2798 | DTASBH | 7/7/98 | 13:23:07 | 5.6 | 13 | 7 | 10.92 | 16.53 | 8.07 | 47.8 | 0.03 | 111.5 | 115 | 346 |
| Mid Lake CDA | 2798 | DTASBH | 7/7/98 | 13:23:07 | 5.6 | 12 | 8 | 10.76 | 16.27 | 7.8 | 47.5 | 0.03 | 109.2 | 112 | 352 |
| Mid Lake CDA | 2798 | DTASBH | 7/7/98 | 13:23:07 | 5.6 | 11 | 9 | 10.42 | 15.61 | 7.48 | 46.7 | 0.03 | 104.3 | 105 | 356 |
| Mid Lake CDA | 2798 | DTASBH | 7/7/98 | 13:23:07 | 5.6 | 10 | 10 | 10.23 | 14.91 | 7.27 | 46.6 | 0.03 | 100.9 | 117 | 359 |
| Mid Lake CDA | 2798 | DTASBH | 7/7/98 | 13:23:07 | 5.6 | 9 | 11 | 10.21 | 14.72 | 7.24 | 46.6 | 0.03 | 100.3 | 223 | 359 |
| Mid Lake CDA | 2798 | DTASBH | 7/7/98 | 13:23:07 | 5.6 | 8 | 12 | 9.93 | 14.03 | 7.08 | 45.5 | 0.03 | 96 | 136 | 361 |
| Mid Lake CDA | 2798 | DTASBH | 7/7/98 | 13:23:07 | 5.6 | 7 | 13.1 | 9.53 | 12.84 | 6.93 | 44.3 | 0.03 | 89.8 | 122 | 362 |
| Mid Lake CDA | 2798 | DTASBH | 7/7/98 | 13:23:07 | 5.6 | 6 | 14 | 9.24 | 12.07 | 6.89 | 43.2 | 0.03 | 85.5 | 53 | 362 |
| Mid Lake CDA | 2798 | DTASBH | 7/7/98 | 13:23:07 | 5.6 | 5 | 15 | 8.96 | 10.85 | 6.77 | 43.8 | 0.03 | 80.6 | 113 | 362 |
| Mid Lake CDA | 2798 | DTASBH | 7/7/98 | 13:23:07 | 5.6 | 4 | 16 | 8.85 | 10.46 | 6.75 | 43.9 | 0.03 | 78.9 | 123 | 362 |
| Mid Lake CDA | 2798 | DTASBH | 7/7/98 | 13:23:07 | 5.6 | 3 | 17 | 8.66 | 9.72 | 6.72 | 45.4 | 0.03 | 75.9 | 118 | 361 |
| Mid Lake CDA | 2798 | DTASBH | 7/7/98 | 13:23:07 | 5.6 | 2 | 18 | 7.82 | 8.76 | 6.64 | 47.2 | 0.03 | 66.9 | 145 | 360 |
| Mid Lake CDA | 2798 | DTASBH | 7/7/98 | 13:23:07 | 5.6 | 1 | 19 | 7.73 | 8.71 | 6.66 | 47.5 | 0.03 | 66.1 | 315 | 357 |
| | | | | | | | | | | | | | | | |
| Mid Lake CDA | 2798 | ASDNBH | 7/8/98 | 11:24:33 | 5.6 | 20 | 0.4 | 9.47 | 23.5 | 8.11 | 46.3 | 0.03 | 111.2 | 39 | 325 |
| Mid Lake CDA | 2798 | ASDNBH | 7/8/98 | 11:24:33 | 5.6 | 19 | 1 | 9.41 | 22.88 | 7.97 | 46.3 | 0.03 | 109.3 | 102 | 330 |
| Mid Lake CDA | 2798 | ASDNBH | 7/8/98 | 11:24:33 | 5.6 | 18 | 2 | 9.42 | 21.74 | 7.83 | 46.3 | 0.03 | 107 | 59 | 332 |
| Mid Lake CDA | 2798 | ASDNBH | 7/8/98 | 11:24:33 | 5.6 | 17 | 3 | 10.25 | 19.88 | 8.08 | 47.1 | 0.03 | 112.3 | 101 | 329 |
| Mid Lake CDA | 2798 | ASDNBH | 7/8/98 | 11:24:33 | 5.6 | 16 | 4 | 10.8 | 18.07 | 8.37 | 44.4 | 0.03 | 114.1 | 51 | 325 |
| Mid Lake CDA | 2798 | ASDNBH | 7/8/98 | 11:24:33 | 5.6 | 15 | 5 | 10.93 | 17.13 | 8.38 | 43.1 | 0.03 | 113.2 | 110 | 325 |
| Mid Lake CDA | 2798 | ASDNBH | 7/8/98 | 11:24:33 | 5.6 | 14 | 6 | 10.95 | 17.08 | 8.29 | 43.9 | 0.03 | 113.3 | 121 | 328 |
| Mid Lake CDA | 2798 | ASDNBH | 7/8/98 | 11:24:33 | 5.6 | 13 | 7 | 10.9 | 16.95 | 8.16 | 44.4 | 0.03 | 112.4 | 128 | 331 |
| Mid Lake CDA | 2798 | ASDNBH | 7/8/98 | 11:24:33 | 5.6 | 12 | 8 | 10.7 | 16.63 | 8.01 | 43.8 | 0.03 | 109.7 | 111 | 335 |
| Mid Lake CDA | 2798 | ASDNBH | 7/8/98 | 11:24:33 | 5.6 | 11 | 9 | 10.58 | 16.23 | 7.71 | 43.6 | 0.03 | 107.6 | 56 | 341 |
| Mid Lake CDA | 2798 | ASDNBH | 7/8/98 | 11:24:33 | 5.6 | 10 | 10 | 10.47 | 15.96 | 7.6 | 43.1 | 0.03 | 105.8 | 116 | 343 |
| Mid Lake CDA | 2798 | ASDNBH | 7/8/98 | 11:24:33 | 5.6 | 9 | 11 | 10.32 | 15.42 | 7.42 | 43 | 0.03 | 103.1 | 122 | 346 |
| Mid Lake CDA | 2798 | ASDNBH | 7/8/98 | 11:24:33 | 5.6 | 8 | 12 | 10.18 | 15.12 | 7.3 | 42.5 | 0.03 | 101 | 116 | 348 |
| Mid Lake CDA | 2798 | ASDNBH | 7/8/98 | 11:24:33 | 5.6 | 7 | 13 | 9.77 | 14.1 | 7.11 | 41.5 | 0.03 | 94.8 | 152 | 351 |
| Mid Lake CDA | 2798 | ASDNBH | 7/8/98 | 11:24:33 | 5.6 | 6 | 14 | 9.44 | 13.12 | 6.98 | 40.4 | 0.03 | 89.7 | 205 | 352 |
| Mid Lake CDA | 2798 | ASDNBH | 7/8/98 | 11:24:33 | 5.6 | 5 | 15 | 8.86 | 11.99 | 6.85 | 39.2 | 0.03 | 82 | 217 | 353 |
| Mid Lake CDA | 2798 | ASDNBH | 7/8/98 | 11:24:33 | 5.6 | 4 | 16 | 8.41 | 11.25 | 6.77 | 39.2 | 0.03 | 76.5 | 154 | 353 |
| Mid Lake CDA | 2798 | ASDNBH | 7/8/98 | 11:24:33 | 5.6 | 3 | 17 | 7.92 | 10.48 | 6.71 | 39.7 | 0.03 | 70.8 | 215 | 352 |
| Mid Lake CDA | 2798 | ASDNBH | 7/8/98 | 11:24:33 | 5.6 | 2 | 18 | 7.29 | 8.63 | 6.62 | 43.9 | 0.03 | 62.4 | 146 | 352 |
| Mid Lake CDA | 2798 | ASDNBH | 7/8/98 | 11:24:33 | 5.6 | 1 | 19 | 7.25 | 8.59 | 6.63 | 43.9 | 0.03 | 62 | 555 | 351 |
| | | | | | | | | | | | | | | | |
| Mid Lake CDA | 2998 | ASBH | 7/20/98 | 11:13:27 | 8.7 | 19 | 0.3 | 9.18 | 24.55 | 7.93 | 54.1 | 0.03 | 109.8 | 56 | 334 |
| Mid Lake CDA | 2998 | ASBH | 7/20/98 | 11:13:27 | 8.7 | 18 | 1.8 | 9.26 | 23.15 | 7.9 | 53.6 | 0.03 | 107.8 | 134 | 334 |
| Mid Lake CDA | 2998 | ASBH | 7/20/98 | 11:13:27 | 8.7 | 17 | 2.8 | 9.35 | 22.64 | 7.9 | 53.7 | 0.03 | 107.9 | 123 | 335 |
| Mid Lake CDA | 2998 | ASBH | 7/20/98 | 11:13:27 | 8.7 | 16 | 3.8 | 9.68 | 22.09 | 7.97 | 53.3 | 0.03 | 110.5 | 219 | 335 |
| Mid Lake CDA | 2998 | ASBH | 7/20/98 | 11:13:27 | 8.7 | 15 | 4.8 | 9.98 | 20.97 | 8.02 | 51.4 | 0.03 | 111.5 | 125 | 336 |
| Mid Lake CDA | 2998 | ASBH | 7/20/98 | 11:13:27 | 8.7 | 14 | 5.8 | 10.2 | 19.95 | 8.01 | 50.1 | 0.03 | 111.7 | 125 | 337 |
| Mid Lake CDA | 2998 | ASBH | 7/20/98 | 11:13:27 | 8.7 | 13 | 6.8 | 10.52 | 18.74 | 7.85 | 49 | 0.03 | 112.5 | 155 | 342 |

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|--------------|------|--------|---------|----------|-----|----|------|-------|-------|------|------|------|-------|-----|-----|
| Mid Lake CDA | 2998 | ASBH | 7/20/98 | 11:13:27 | 8.7 | 12 | 7.8 | 10.08 | 16.31 | 7.27 | 47.5 | 0.03 | 102.5 | 135 | 354 |
| Mid Lake CDA | 2998 | ASBH | 7/20/98 | 11:13:27 | 8.7 | 11 | 8.8 | 9.14 | 13.96 | 6.94 | 45.8 | 0.03 | 88.3 | 121 | 359 |
| Mid Lake CDA | 2998 | ASBH | 7/20/98 | 11:13:27 | 8.7 | 10 | 9.8 | 8.59 | 12.87 | 6.8 | 45 | 0.03 | 81 | 111 | 361 |
| Mid Lake CDA | 2998 | ASBH | 7/20/98 | 11:13:27 | 8.7 | 9 | 10.8 | 8.6 | 11.7 | 6.76 | 44.9 | 0.03 | 79 | 139 | 360 |
| Mid Lake CDA | 2998 | ASBH | 7/20/98 | 11:13:27 | 8.7 | 8 | 11.8 | 8.44 | 11.21 | 6.73 | 45.2 | 0.03 | 76.6 | 151 | 360 |
| Mid Lake CDA | 2998 | ASBH | 7/20/98 | 11:13:27 | 8.7 | 7 | 12.8 | 8.37 | 10.84 | 6.71 | 45.4 | 0.03 | 75.4 | 157 | 359 |
| Mid Lake CDA | 2998 | ASBH | 7/20/98 | 11:13:27 | 8.7 | 6 | 13.8 | 8.3 | 10.05 | 6.67 | 46 | 0.03 | 73.4 | 155 | 358 |
| Mid Lake CDA | 2998 | ASBH | 7/20/98 | 11:13:27 | 8.7 | 5 | 14.8 | 7.79 | 9.28 | 6.63 | 47.2 | 0.03 | 67.6 | 128 | 357 |
| Mid Lake CDA | 2998 | ASBH | 7/20/98 | 11:13:27 | 8.7 | 4 | 15.8 | 7.75 | 8.97 | 6.63 | 47.3 | 0.03 | 66.7 | 32 | 356 |
| Mid Lake CDA | 2998 | ASBH | 7/20/98 | 11:13:27 | 8.7 | 3 | 16.8 | 8.21 | 8.74 | 6.68 | 47.9 | 0.03 | 70.3 | 55 | 351 |
| Mid Lake CDA | 2998 | ASBH | 7/20/98 | 11:13:27 | 8.7 | 2 | 17.8 | 8.42 | 8.72 | 6.71 | 47.8 | 0.03 | 72 | 22 | 349 |
| Mid Lake CDA | 2998 | ASBH | 7/20/98 | 11:13:27 | 8.7 | 1 | 18.8 | 8.49 | 8.66 | 6.77 | 47.9 | 0.03 | 72.6 | 222 | 343 |
| | | | | | | | | | | | | | | | |
| Mid Lake CDA | 3298 | DBAS | 8/10/98 | 11:21:08 | 9.8 | 13 | 0.3 | 8.5 | 24.59 | 7.73 | 59 | 0.04 | 101.6 | 48 | 343 |
| Mid Lake CDA | 3298 | DBAS | 8/10/98 | 11:21:08 | 9.8 | 12 | 1.9 | 8.56 | 23.87 | 7.73 | 58.8 | 0.04 | 101 | 39 | 343 |
| Mid Lake CDA | 3298 | DBAS | 8/10/98 | 11:21:08 | 9.8 | 11 | 3.4 | 8.59 | 23.64 | 7.71 | 59.1 | 0.04 | 100.9 | 49 | 343 |
| Mid Lake CDA | 3298 | DBAS | 8/10/98 | 11:21:08 | 9.8 | 10 | 4.9 | 8.7 | 23.49 | 7.7 | 58.8 | 0.04 | 102 | 110 | 344 |
| Mid Lake CDA | 3298 | DBAS | 8/10/98 | 11:21:08 | 9.8 | 9 | 6.6 | 8.7 | 23.4 | 7.62 | 59.2 | 0.04 | 101.8 | 104 | 347 |
| Mid Lake CDA | 3298 | DBAS | 8/10/98 | 11:21:08 | 9.8 | 8 | 7.8 | 9.57 | 20.65 | 7.39 | 52.7 | 0.03 | 106.2 | 54 | 355 |
| Mid Lake CDA | 3298 | DBAS | 8/10/98 | 11:21:08 | 9.8 | 7 | 9.8 | 10.06 | 19.06 | 7.33 | 49.8 | 0.03 | 108.1 | 46 | 356 |
| Mid Lake CDA | 3298 | DBAS | 8/10/98 | 11:21:08 | 9.8 | 6 | 11.1 | 9.85 | 17.61 | 7.12 | 48.5 | 0.03 | 102.8 | 25 | 361 |
| Mid Lake CDA | 3298 | DBAS | 8/10/98 | 11:21:08 | 9.8 | 5 | 12.4 | 9.14 | 15.99 | 6.95 | 47.8 | 0.03 | 92.2 | 103 | 365 |
| Mid Lake CDA | 3298 | DBAS | 8/10/98 | 11:21:08 | 9.8 | 4 | 14.1 | 7.96 | 12.74 | 6.76 | 47 | 0.03 | 74.8 | 108 | 368 |
| Mid Lake CDA | 3298 | DBAS | 8/10/98 | 11:21:08 | 9.8 | 3 | 15.4 | 7.03 | 11.16 | 6.69 | 47.7 | 0.03 | 63.7 | 46 | 368 |
| Mid Lake CDA | 3298 | DBAS | 8/10/98 | 11:21:08 | 9.8 | 2 | 17.1 | 6.06 | 9.58 | 6.66 | 49.1 | 0.03 | 52.9 | 56 | 368 |
| Mid Lake CDA | 3298 | DBAS | 8/10/98 | 11:21:08 | 9.8 | 1 | 18.8 | 4.84 | 10.07 | 6.71 | 50.9 | 0.03 | 42.7 | 130 | 369 |
| | | | | | | | | | | | | | | | |
| Mid Lake CDA | 3498 | ASDNGL | 8/25/98 | 12:13:57 | 7.5 | 20 | 0.3 | 9.16 | 22.36 | 7.92 | 56 | 0.04 | 105.6 | 105 | 334 |
| Mid Lake CDA | 3498 | ASDNGL | 8/25/98 | 12:13:57 | 7.5 | 19 | 1 | 9.25 | 21.95 | 7.98 | 55.3 | 0.04 | 105.7 | 107 | 334 |
| Mid Lake CDA | 3498 | ASDNGL | 8/25/98 | 12:13:57 | 7.5 | 18 | 2 | 9.25 | 21.78 | 7.96 | 55.3 | 0.04 | 105.4 | 113 | 337 |
| Mid Lake CDA | 3498 | ASDNGL | 8/25/98 | 12:13:57 | 7.5 | 17 | 3 | 9.25 | 21.54 | 7.92 | 55.2 | 0.04 | 104.9 | 100 | 336 |
| Mid Lake CDA | 3498 | ASDNGL | 8/25/98 | 12:13:57 | 7.5 | 16 | 4 | 9.24 | 21.46 | 7.87 | 55.3 | 0.04 | 104.6 | 102 | 338 |
| Mid Lake CDA | 3498 | ASDNGL | 8/25/98 | 12:13:57 | 7.5 | 15 | 5 | 9.25 | 21.39 | 7.82 | 55.3 | 0.04 | 104.6 | 44 | 339 |
| Mid Lake CDA | 3498 | ASDNGL | 8/25/98 | 12:13:57 | 7.5 | 14 | 6 | 9.19 | 21.33 | 7.79 | 55.4 | 0.04 | 103.8 | 56 | 340 |
| Mid Lake CDA | 3498 | ASDNGL | 8/25/98 | 12:13:57 | 7.5 | 13 | 7 | 9.14 | 21.4 | 7.73 | 55.1 | 0.04 | 103.4 | 51 | 343 |
| Mid Lake CDA | 3498 | ASDNGL | 8/25/98 | 12:13:57 | 7.5 | 12 | 8 | 9.13 | 21.32 | 7.58 | 55.3 | 0.04 | 103.1 | 28 | 349 |
| Mid Lake CDA | 3498 | ASDNGL | 8/25/98 | 12:13:57 | 7.5 | 11 | 9 | 9.04 | 20.84 | 7.34 | 53.5 | 0.03 | 101.1 | 113 | 355 |
| Mid Lake CDA | 3498 | ASDNGL | 8/25/98 | 12:13:57 | 7.5 | 10 | 10 | 9.31 | 19.37 | 7.11 | 49.2 | 0.03 | 101.2 | 115 | 361 |
| Mid Lake CDA | 3498 | ASDNGL | 8/25/98 | 12:13:57 | 7.5 | 9 | 11 | 8.07 | 16.51 | 6.82 | 45.9 | 0.03 | 82.7 | 107 | 368 |
| Mid Lake CDA | 3498 | ASDNGL | 8/25/98 | 12:13:57 | 7.5 | 8 | 12 | 7.71 | 14.82 | 6.73 | 45.6 | 0.03 | 76.2 | 152 | 370 |
| Mid Lake CDA | 3498 | ASDNGL | 8/25/98 | 12:13:57 | 7.5 | 7 | 13 | 6.98 | 13.2 | 6.63 | 44.8 | 0.03 | 66.6 | 224 | 372 |
| Mid Lake CDA | 3498 | ASDNGL | 8/25/98 | 12:13:57 | 7.5 | 6 | 14 | 6.93 | 11.79 | 6.54 | 45.6 | 0.03 | 64 | 30 | 374 |
| Mid Lake CDA | 3498 | ASDNGL | 8/25/98 | 12:13:57 | 7.5 | 5 | 15 | 6.46 | 10.72 | 6.5 | 46 | 0.03 | 58.2 | 37 | 375 |
| Mid Lake CDA | 3498 | ASDNGL | 8/25/98 | 12:13:57 | 7.5 | 4 | 16 | 6.34 | 9.9 | 6.48 | 46.5 | 0.03 | 56.1 | 123 | 375 |

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|--------------|------|--------|---------|----------|-----|----|------|------|-------|------|------|------|-------|------|-----|
| Mid Lake CDA | 3498 | ASDNGL | 8/25/98 | 12:13:57 | 7.5 | 3 | 17 | 6.02 | 9.59 | 6.47 | 46.4 | 0.03 | 52.8 | 132 | 374 |
| Mid Lake CDA | 3498 | ASDNGL | 8/25/98 | 12:13:57 | 7.5 | 2 | 18 | 6.5 | 9.18 | 6.48 | 46.8 | 0.03 | 56.5 | 223 | 373 |
| Mid Lake CDA | 3498 | ASDNGL | 8/25/98 | 12:13:57 | 7.5 | 1 | 18.8 | 6.2 | 9.08 | 6.47 | 47.2 | 0.03 | 53.7 | 408 | 372 |
| | | | | | | | | | | | | | | | |
| Mid Lake CDA | 3598 | DTAS | 9/2/98 | 13:11:01 | 7.5 | 19 | 0.5 | 9.21 | 21.94 | 7.9 | 58.3 | 0.04 | 105.3 | 14 | 330 |
| Mid Lake CDA | 3598 | DTAS | 9/2/98 | 13:11:01 | 7.5 | 18 | 1.8 | 9.33 | 21.39 | 7.94 | 57.9 | 0.04 | 105.6 | 15 | 330 |
| Mid Lake CDA | 3598 | DTAS | 9/2/98 | 13:11:01 | 7.5 | 17 | 2.8 | 9.3 | 21.28 | 7.87 | 58.1 | 0.04 | 105 | 28 | 333 |
| Mid Lake CDA | 3598 | DTAS | 9/2/98 | 13:11:01 | 7.5 | 16 | 3.8 | 9.27 | 21.23 | 7.82 | 58.2 | 0.04 | 104.6 | 28 | 335 |
| Mid Lake CDA | 3598 | DTAS | 9/2/98 | 13:11:01 | 7.5 | 15 | 4.8 | 9.29 | 21.18 | 7.78 | 58.1 | 0.04 | 104.7 | 29 | 337 |
| Mid Lake CDA | 3598 | DTAS | 9/2/98 | 13:11:01 | 7.5 | 14 | 5.8 | 9.26 | 21.16 | 7.69 | 58.2 | 0.04 | 104.3 | 34 | 342 |
| Mid Lake CDA | 3598 | DTAS | 9/2/98 | 13:11:01 | 7.5 | 13 | 6.8 | 9.17 | 21.11 | 7.52 | 57.7 | 0.04 | 103.2 | 32 | 347 |
| Mid Lake CDA | 3598 | DTAS | 9/2/98 | 13:11:01 | 7.5 | 12 | 7.8 | 8.72 | 20.41 | 7.15 | 55.8 | 0.04 | 96.8 | 33 | 359 |
| Mid Lake CDA | 3598 | DTAS | 9/2/98 | 13:11:01 | 7.5 | 11 | 8.8 | 8.5 | 18.7 | 6.97 | 49.8 | 0.03 | 91.2 | 49 | 362 |
| Mid Lake CDA | 3598 | DTAS | 9/2/98 | 13:11:01 | 7.5 | 10 | 9.8 | 7.98 | 17.41 | 6.82 | 47.4 | 0.03 | 83.4 | 46 | 366 |
| Mid Lake CDA | 3598 | DTAS | 9/2/98 | 13:11:01 | 7.5 | 9 | 10.8 | 8.18 | 15.41 | 6.77 | 47 | 0.03 | 81.9 | 114 | 368 |
| Mid Lake CDA | 3598 | DTAS | 9/2/98 | 13:11:01 | 7.5 | 8 | 11.8 | 7.44 | 13.53 | 6.65 | 46.7 | 0.03 | 71.5 | 55 | 370 |
| Mid Lake CDA | 3598 | DTAS | 9/2/98 | 13:11:01 | 7.5 | 7 | 12.8 | 6.77 | 12.22 | 6.56 | 46.9 | 0.03 | 63.2 | 121 | 372 |
| Mid Lake CDA | 3598 | DTAS | 9/2/98 | 13:11:01 | 7.5 | 6 | 13.8 | 7.14 | 11.38 | 6.56 | 46.8 | 0.03 | 65.4 | 111 | 372 |
| Mid Lake CDA | 3598 | DTAS | 9/2/98 | 13:11:01 | 7.5 | 5 | 14.8 | 6.76 | 10.87 | 6.53 | 47.3 | 0.03 | 61.1 | 139 | 372 |
| Mid Lake CDA | 3598 | DTAS | 9/2/98 | 13:11:01 | 7.5 | 4 | 15.8 | 6.15 | 9.84 | 6.45 | 48.1 | 0.03 | 54.3 | 108 | 374 |
| Mid Lake CDA | 3598 | DTAS | 9/2/98 | 13:11:01 | 7.5 | 3 | 16.8 | 6.07 | 9.74 | 6.44 | 48 | 0.03 | 53.4 | 49 | 374 |
| Mid Lake CDA | 3598 | DTAS | 9/2/98 | 13:11:01 | 7.5 | 2 | 17.8 | 5.78 | 9.71 | 6.43 | 48.1 | 0.03 | 50.9 | 115 | 374 |
| Mid Lake CDA | 3598 | DTAS | 9/2/98 | 13:11:01 | 7.5 | 1 | 18.8 | 5.36 | 9.46 | 6.41 | 48.6 | 0.03 | 46.9 | 1017 | 374 |
| | | | | | | | | | | | | | | | |
| Mid Lake CDA | 3998 | ASKB | 9/30/98 | 13:31:00 | 5.9 | 19 | 0.3 | 9.25 | 18.94 | 7.77 | 61.1 | 0.04 | 99.5 | 34 | 335 |
| Mid Lake CDA | 3998 | ASKB | 9/30/98 | 13:31:00 | 5.9 | 18 | 1.6 | 9.31 | 18.05 | 7.77 | 61.1 | 0.04 | 98.3 | 40 | 338 |
| Mid Lake CDA | 3998 | ASKB | 9/30/98 | 13:31:00 | 5.9 | 17 | 2.6 | 9.28 | 17.93 | 7.74 | 61.1 | 0.04 | 97.7 | 102 | 340 |
| Mid Lake CDA | 3998 | ASKB | 9/30/98 | 13:31:00 | 5.9 | 16 | 3.6 | 9.29 | 17.86 | 7.73 | 60.8 | 0.04 | 97.7 | 55 | 340 |
| Mid Lake CDA | 3998 | ASKB | 9/30/98 | 13:31:00 | 5.9 | 15 | 4.6 | 9.23 | 17.84 | 7.71 | 60.8 | 0.04 | 97.1 | 51 | 341 |
| Mid Lake CDA | 3998 | ASKB | 9/30/98 | 13:31:00 | 5.9 | 14 | 5.6 | 9.21 | 17.81 | 7.68 | 60.7 | 0.04 | 96.8 | 124 | 343 |
| Mid Lake CDA | 3998 | ASKB | 9/30/98 | 13:31:00 | 5.9 | 13 | 6.6 | 9.19 | 17.76 | 7.63 | 61 | 0.04 | 96.5 | 132 | 345 |
| Mid Lake CDA | 3998 | ASKB | 9/30/98 | 13:31:00 | 5.9 | 12 | 7.6 | 9.17 | 17.73 | 7.56 | 62.5 | 0.04 | 96.1 | 52 | 348 |
| Mid Lake CDA | 3998 | ASKB | 9/30/98 | 13:31:00 | 5.9 | 11 | 8.6 | 9.09 | 17.58 | 7.53 | 62.6 | 0.04 | 95.1 | 102 | 348 |
| Mid Lake CDA | 3998 | ASKB | 9/30/98 | 13:31:00 | 5.9 | 10 | 9.6 | 9.1 | 17.54 | 7.5 | 63.6 | 0.04 | 95.1 | 105 | 350 |
| Mid Lake CDA | 3998 | ASKB | 9/30/98 | 13:31:00 | 5.9 | 9 | 10.6 | 9.1 | 17.54 | 0 | 64 | 0.04 | 95.1 | 100 | 351 |
| Mid Lake CDA | 3998 | ASKB | 9/30/98 | 13:31:00 | 5.9 | 8 | 11.6 | 9.06 | 17.49 | 7.42 | 64.4 | 0.04 | 94.5 | 156 | 353 |
| Mid Lake CDA | 3998 | ASKB | 9/30/98 | 13:31:00 | 5.9 | 7 | 12.6 | 8.37 | 16.92 | 7.09 | 64.6 | 0.04 | 86.3 | 108 | 363 |
| Mid Lake CDA | 3998 | ASKB | 9/30/98 | 13:31:00 | 5.9 | 6 | 13.6 | 7.35 | 15.38 | 6.82 | 57.8 | 0.04 | 73.4 | 115 | 368 |
| Mid Lake CDA | 3998 | ASKB | 9/30/98 | 13:31:00 | 5.9 | 5 | 14.6 | 5.53 | 13.04 | 6.58 | 49.5 | 0.03 | 52.4 | 124 | 373 |
| Mid Lake CDA | 3998 | ASKB | 9/30/98 | 13:31:00 | 5.9 | 4 | 15.6 | 4.79 | 11.81 | 6.54 | 49.6 | 0.03 | 44.1 | 119 | 374 |
| Mid Lake CDA | 3998 | ASKB | 9/30/98 | 13:31:00 | 5.9 | 3 | 16.6 | 4.51 | 10.09 | 6.51 | 49.9 | 0.03 | 39.9 | 154 | 375 |
| Mid Lake CDA | 3998 | ASKB | 9/30/98 | 13:31:00 | 5.9 | 2 | 17.6 | 3.75 | 9.48 | 6.48 | 50.7 | 0.03 | 32.7 | 246 | 375 |
| Mid Lake CDA | 3998 | ASKB | 9/30/98 | 13:31:00 | 5.9 | 1 | 18.6 | 4.07 | 9.33 | 6.5 | 51.1 | 0.03 | 35.4 | 831 | 373 |

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|--------------|------|--------|----------|----------|-----|----|------|------|-------|------|------|------|------|-----|------|
| Mid Lake CDA | 4298 | DTASKB | 10/20/98 | 9:38:00 | 7.5 | 19 | 0.4 | 9.11 | 12.65 | 7.32 | 57.5 | 0.04 | 84.7 | 59 | 385 |
| Mid Lake CDA | 4298 | DTASKB | 10/20/98 | 9:38:00 | 7.5 | 18 | 1.3 | 9.12 | 12.66 | 7.31 | 57.7 | 0.04 | 84.8 | 42 | 387 |
| Mid Lake CDA | 4298 | DTASKB | 10/20/98 | 9:38:00 | 7.5 | 17 | 2.3 | 9.11 | 12.66 | 7.32 | 57.7 | 0.04 | 84.7 | 119 | 387 |
| Mid Lake CDA | 4298 | DTASKB | 10/20/98 | 9:38:00 | 7.5 | 16 | 3.3 | 9.1 | 12.66 | 7.29 | 57.7 | 0.04 | 84.6 | 129 | 390 |
| Mid Lake CDA | 4298 | DTASKB | 10/20/98 | 9:38:00 | 7.5 | 15 | 4.3 | 9.11 | 12.63 | 7.32 | 57.4 | 0.04 | 84.7 | 109 | 388 |
| Mid Lake CDA | 4298 | DTASKB | 10/20/98 | 9:38:00 | 7.5 | 14 | 5.3 | 9.1 | 12.63 | 7.31 | 57.7 | 0.04 | 84.6 | 53 | 389 |
| Mid Lake CDA | 4298 | DTASKB | 10/20/98 | 9:38:00 | 7.5 | 13 | 6.3 | 9.11 | 12.6 | 7.3 | 57.7 | 0.04 | 84.6 | 117 | 389 |
| Mid Lake CDA | 4298 | DTASKB | 10/20/98 | 9:38:00 | 7.5 | 12 | 7.3 | 9.13 | 12.56 | 7.3 | 57 | 0.04 | 84.7 | 59 | 390 |
| Mid Lake CDA | 4298 | DTASKB | 10/20/98 | 9:38:00 | 7.5 | 11 | 8.3 | 9.11 | 12.58 | 7.3 | 57.3 | 0.04 | 84.5 | 131 | 390 |
| Mid Lake CDA | 4298 | DTASKB | 10/20/98 | 9:38:00 | 7.5 | 10 | 9.3 | 9.13 | 12.55 | 7.3 | 56.8 | 0.04 | 84.7 | 47 | 390 |
| Mid Lake CDA | 4298 | DTASKB | 10/20/98 | 9:38:00 | 7.5 | 9 | 10.3 | 9.13 | 12.55 | 7.29 | 57.3 | 0.04 | 84.7 | 57 | 391 |
| Mid Lake CDA | 4298 | DTASKB | 10/20/98 | 9:38:00 | 7.5 | 8 | 11.3 | 9.07 | 12.55 | 7.27 | 57.3 | 0.04 | 84.1 | 51 | 392 |
| Mid Lake CDA | 4298 | DTASKB | 10/20/98 | 9:38:00 | 7.5 | 7 | 12.3 | 9.03 | 12.5 | 7.26 | 56.6 | 0.04 | 83.6 | 124 | 392 |
| Mid Lake CDA | 4298 | DTASKB | 10/20/98 | 9:38:00 | 7.5 | 6 | 13.3 | 8.98 | 12.46 | 7.22 | 56.7 | 0.04 | 83.1 | 104 | 393 |
| Mid Lake CDA | 4298 | DTASKB | 10/20/98 | 9:38:00 | 7.5 | 5 | 14.3 | 8.76 | 11.81 | 7.17 | 56.7 | 0.04 | 79.9 | 151 | 395 |
| Mid Lake CDA | 4298 | DTASKB | 10/20/98 | 9:38:00 | 7.5 | 4 | 15.3 | 7.23 | 11.2 | 6.91 | 55.1 | 0.04 | 65.1 | 215 | 399 |
| Mid Lake CDA | 4298 | DTASKB | 10/20/98 | 9:38:00 | 7.5 | 3 | 16.3 | 4.21 | 10.12 | 6.56 | 50.9 | 0.03 | 36.9 | 152 | 409 |
| Mid Lake CDA | 4298 | DTASKB | 10/20/98 | 9:38:00 | 7.5 | 2 | 17.3 | 5.14 | 8.73 | 6.48 | 49.2 | 0.03 | 43.6 | 315 | 411 |
| Mid Lake CDA | 4298 | DTASKB | 10/20/98 | 9:38:00 | 7.5 | 1 | 18.3 | 5.42 | 8.09 | 6.5 | 49.1 | 0.03 | 45.3 | 357 | 410 |
| | | | | | | | | | | | | | | | |
| Mid Lake CDA | 4698 | KBAS | 11/17/98 | 13:20:00 | 5.3 | 19 | 0.4 | 8.58 | 8.78 | 7.31 | 54.7 | 0.04 | 74.6 | 31 | 324 |
| Mid Lake CDA | 4698 | KBAS | 11/17/98 | 13:20:00 | 5.3 | 18 | 0.9 | 8.58 | 8.79 | 7.33 | 54.8 | 0.04 | 74.6 | 38 | 323 |
| Mid Lake CDA | 4698 | KBAS | 11/17/98 | 13:20:00 | 5.3 | 17 | 1.9 | 8.58 | 8.79 | 7.31 | 54.8 | 8.57 | 325 | 47 | 11.3 |
| Mid Lake CDA | 4698 | KBAS | 11/17/98 | 13:20:00 | 5.3 | 16 | 2.9 | 8.55 | 8.78 | 7.28 | 54.8 | 0.04 | 74.3 | 111 | 325 |
| Mid Lake CDA | 4698 | KBAS | 11/17/98 | 13:20:00 | 5.3 | 15 | 3.9 | 8.57 | 8.78 | 7.27 | 55 | 0 | 8.56 | 58 | 4 |
| Mid Lake CDA | 4698 | KBAS | 11/17/98 | 13:20:00 | 5.3 | 14 | 4.9 | 8.52 | 8.78 | 7.23 | 55.2 | 0.04 | 74 | 41 | 327 |
| Mid Lake CDA | 4698 | KBAS | 11/17/98 | 13:20:00 | 5.3 | 13 | 5.9 | 8.52 | 8.79 | 7.22 | 54.7 | 0.04 | 74.1 | 40 | 327 |
| Mid Lake CDA | 4698 | KBAS | 11/17/98 | 13:20:00 | 5.3 | 12 | 6.9 | 8.48 | 8.78 | 7.19 | 55.3 | 0.04 | 73.7 | 43 | 327 |
| Mid Lake CDA | 4698 | KBAS | 11/17/98 | 13:20:00 | 5.3 | 11 | 7.9 | 8.3 | 8.74 | 7.14 | 55.3 | 0.04 | 72.1 | 53 | 329 |
| Mid Lake CDA | 4698 | KBAS | 11/17/98 | 13:20:00 | 5.3 | 10 | 8.9 | 8.19 | 8.71 | 7.1 | 55.4 | 0.04 | 71 | 43 | 329 |
| Mid Lake CDA | 4698 | KBAS | 11/17/98 | 13:20:00 | 5.3 | 9 | 9.9 | 8.19 | 8.69 | 7.09 | 55.7 | 0.04 | 71.1 | 55 | 329 |
| Mid Lake CDA | 4698 | KBAS | 11/17/98 | 13:20:00 | 5.3 | 8 | 10.9 | 8.04 | 8.69 | 7.05 | 55.7 | 0.04 | 69.7 | 39 | 329 |
| Mid Lake CDA | 4698 | KBAS | 11/17/98 | 13:20:00 | 5.3 | 7 | 11.9 | 7.87 | 8.66 | 6.99 | 56 | 0.04 | 69.1 | 25 | 331 |
| Mid Lake CDA | 4698 | KBAS | 11/17/98 | 13:20:00 | 5.3 | 6 | 12.9 | 7.49 | 8.48 | 6.89 | 55.6 | 0.04 | 64.6 | 42 | 331 |
| Mid Lake CDA | 4698 | KBAS | 11/17/98 | 13:20:00 | 5.3 | 5 | 13.9 | 7.14 | 8.3 | 6.83 | 54.7 | 0.04 | 61.3 | 42 | 331 |
| Mid Lake CDA | 4698 | KBAS | 11/17/98 | 13:20:00 | 5.3 | 4 | 14.9 | 7.11 | 8.2 | 6.82 | 54.2 | 0.03 | 60.9 | 54 | 331 |
| Mid Lake CDA | 4698 | KBAS | 11/17/98 | 13:20:00 | 5.3 | 3 | 16 | 6.95 | 8.06 | 6.77 | 53.8 | 0.03 | 59.4 | 50 | 330 |
| Mid Lake CDA | 4698 | KBAS | 11/17/98 | 13:20:00 | 5.3 | 2 | 16.9 | 6.37 | 7.7 | 6.72 | 50.9 | 0.03 | 53.9 | 59 | 330 |
| Mid Lake CDA | 4698 | KBAS | 11/17/98 | 13:20:00 | 5.3 | 1 | 17.9 | 6.07 | 7.45 | 6.71 | 49.5 | 0.03 | 51 | 505 | 328 |

| Location | Phase | Samplers | Date | Time | Secchi (m) | Sequence | Depth (m) | Dissolved Oxygen (mg/L) | Temperature (C) | pH | Conductivity (μs/cm) | TDS | Saturated Dissolved Oxygen | Stabilization Time | Redox |
|-----------|-------|----------|---------|----------|------------|----------|-----------|-------------------------|-----------------|------|----------------------|------|----------------------------|--------------------|-------|
| Carey Bay | 1098 | DBRP | 3/13/98 | 13:01:20 | 1.8 | 12 | 0.4 | 12.8 | 5.07 | 6.92 | 44.8 | 0.03 | 99.4 | 104 | 391 |

| | | | | | | | | | | | | | | | |
|-----------|------|--------|---------|----------|-----|----|------|------|-------|------|------|------|-------|-----|-----|
| Carey Bay | 1098 | DBRP | 3/13/98 | 13:01:20 | 1.8 | 11 | 0.8 | 12.7 | 4.74 | 6.9 | 44.6 | 0.03 | 98.3 | 37 | 397 |
| Carey Bay | 1098 | DBRP | 3/13/98 | 13:01:20 | 1.8 | 10 | 1.8 | 12.8 | 4.01 | 6.99 | 44.8 | 0.03 | 96.6 | 116 | 392 |
| Carey Bay | 1098 | DBRP | 3/13/98 | 13:01:20 | 1.8 | 9 | 2.8 | 12.8 | 4.19 | 6.93 | 44.6 | 0.03 | 97.2 | 43 | 395 |
| Carey Bay | 1098 | DBRP | 3/13/98 | 13:01:20 | 1.8 | 8 | 3.8 | 12.8 | 4.14 | 6.96 | 44.6 | 0.03 | 96.9 | 57 | 393 |
| Carey Bay | 1098 | DBRP | 3/13/98 | 13:01:20 | 1.8 | 7 | 4.8 | 12.8 | 3.98 | 6.95 | 44.7 | 0.03 | 96.6 | 56 | 393 |
| Carey Bay | 1098 | DBRP | 3/13/98 | 13:01:20 | 1.8 | 6 | 5.8 | 12.7 | 3.99 | 6.99 | 44.7 | 0.03 | 96.4 | 108 | 391 |
| Carey Bay | 1098 | DBRP | 3/13/98 | 13:01:20 | 1.8 | 5 | 6.8 | 12.8 | 4.01 | 6.96 | 44.7 | 0.03 | 96.8 | 110 | 392 |
| Carey Bay | 1098 | DBRP | 3/13/98 | 13:01:20 | 1.8 | 4 | 7.8 | 12.8 | 4.06 | 6.92 | 44.7 | 0.03 | 96.8 | 146 | 393 |
| Carey Bay | 1098 | DBRP | 3/13/98 | 13:01:20 | 1.8 | 3 | 8.8 | 12.8 | 3.98 | 6.86 | 44.6 | 0.03 | 96.5 | 32 | 394 |
| Carey Bay | 1098 | DBRP | 3/13/98 | 13:01:20 | 1.8 | 2 | 9.8 | 12.7 | 4.04 | 6.84 | 46.3 | 0.03 | 96.2 | 121 | 393 |
| Carey Bay | 1098 | DBRP | 3/13/98 | 13:01:20 | 1.8 | 1 | 10.8 | 12.4 | 3.98 | 6.75 | 48.1 | 0.03 | 93.4 | 144 | 395 |
| Carey Bay | 1498 | DBAS | 4/8/98 | 14:24:27 | 2.2 | 13 | 0.3 | 12.4 | 7.7 | 7.04 | 40.3 | 0.03 | 103.8 | 113 | 411 |
| Carey Bay | 1498 | DBAS | 4/8/98 | 14:24:27 | 2.2 | 12 | 1.2 | 12.3 | 7.7 | 7.02 | 40.4 | 0.03 | 103.4 | 126 | 414 |
| Carey Bay | 1498 | DBAS | 4/8/98 | 14:24:27 | 2.2 | 11 | 2.3 | 12.3 | 7.71 | 7.03 | 40.3 | 0.03 | 103.3 | 104 | 414 |
| Carey Bay | 1498 | DBAS | 4/8/98 | 14:24:27 | 2.2 | 10 | 3.3 | 12.3 | 7.63 | 7 | 40 | 0.03 | 103 | 121 | 415 |
| Carey Bay | 1498 | DBAS | 4/8/98 | 14:24:27 | 2.2 | 9 | 4.3 | 12.3 | 7.05 | 7.06 | 40.2 | 0.03 | 101.4 | 140 | 411 |
| Carey Bay | 1498 | DBAS | 4/8/98 | 14:24:27 | 2.2 | 8 | 5.4 | 12.2 | 6.61 | 6.93 | 40.6 | 0.03 | 99.6 | 55 | 417 |
| Carey Bay | 1498 | DBAS | 4/8/98 | 14:24:27 | 2.2 | 7 | 6.4 | 12.2 | 6.5 | 6.87 | 41 | 0.03 | 99.1 | 107 | 419 |
| Carey Bay | 1498 | DBAS | 4/8/98 | 14:24:27 | 2.2 | 6 | 7.4 | 12.1 | 6.45 | 6.91 | 40.9 | 0.03 | 98.4 | 116 | 416 |
| Carey Bay | 1498 | DBAS | 4/8/98 | 14:24:27 | 2.2 | 5 | 8.4 | 11.9 | 6.13 | 6.88 | 42.2 | 0.03 | 95.8 | 139 | 416 |
| Carey Bay | 1498 | DBAS | 4/8/98 | 14:24:27 | 2.2 | 4 | 9.4 | 11.8 | 5.97 | 6.84 | 42.7 | 0.03 | 94.4 | 115 | 417 |
| Carey Bay | 1498 | DBAS | 4/8/98 | 14:24:27 | 2.2 | 3 | 10.4 | 11.8 | 5.85 | 6.8 | 42.9 | 0.03 | 94.1 | 125 | 418 |
| Carey Bay | 1498 | DBAS | 4/8/98 | 14:24:27 | 2.2 | 2 | 11.4 | 11.8 | 5.75 | 6.84 | 43 | 0.03 | 94.1 | 46 | 415 |
| Carey Bay | 1498 | DBAS | 4/8/98 | 14:24:27 | 2.2 | 1 | 12.5 | 11.7 | 5.75 | 6.79 | 43.2 | 0.03 | 93.2 | 203 | 418 |
| Carey Bay | 1698 | DBASRP | 4/21/98 | 15:07:34 | 2.8 | 13 | 0.3 | 11.7 | 13.63 | 7.2 | 43.7 | 0.03 | 111.9 | 120 | 391 |
| Carey Bay | 1698 | DBASRP | 4/21/98 | 15:07:34 | 2.8 | 12 | 1.6 | 12.3 | 9.86 | 7.24 | 43.2 | 0.03 | 107.9 | 108 | 392 |
| Carey Bay | 1698 | DBASRP | 4/21/98 | 15:07:34 | 2.8 | 11 | 2.6 | 12.4 | 8.22 | 7.24 | 42.8 | 0.03 | 104.8 | 105 | 392 |
| Carey Bay | 1698 | DBASRP | 4/21/98 | 15:07:34 | 2.8 | 10 | 3.5 | 12.4 | 7.78 | 7.13 | 42.2 | 0.03 | 103.5 | 50 | 396 |
| Carey Bay | 1698 | DBASRP | 4/21/98 | 15:07:34 | 2.8 | 9 | 4.5 | 12.2 | 7.42 | 7.15 | 42.4 | 0.03 | 101.3 | 115 | 393 |
| Carey Bay | 1698 | DBASRP | 4/21/98 | 15:07:34 | 2.8 | 8 | 5.6 | 12 | 7.14 | 7 | 42.9 | 0.03 | 98.8 | 142 | 398 |
| Carey Bay | 1698 | DBASRP | 4/21/98 | 15:07:34 | 2.8 | 7 | 6.6 | 11.9 | 6.97 | 7.03 | 43.4 | 0.03 | 97.4 | 154 | 394 |
| Carey Bay | 1698 | DBASRP | 4/21/98 | 15:07:34 | 2.8 | 6 | 7.7 | 11.8 | 6.79 | 6.95 | 43.9 | 0.03 | 96.5 | 118 | 395 |
| Carey Bay | 1698 | DBASRP | 4/21/98 | 15:07:34 | 2.8 | 5 | 8.6 | 11.7 | 6.54 | 6.96 | 44.5 | 0.03 | 95 | 210 | 393 |
| Carey Bay | 1698 | DBASRP | 4/21/98 | 15:07:34 | 2.8 | 4 | 9.7 | 11.7 | 6.13 | 6.94 | 45.7 | 0.03 | 93.7 | 116 | 391 |
| Carey Bay | 1698 | DBASRP | 4/21/98 | 15:07:34 | 2.8 | 3 | 10.6 | 11.7 | 6.08 | 6.92 | 46.2 | 0.03 | 93.6 | 131 | 390 |
| Carey Bay | 1698 | DBASRP | 4/21/98 | 15:07:34 | 2.8 | 2 | 11.5 | 11.6 | 5.9 | 6.85 | 47 | 0.03 | 92.9 | 124 | 391 |
| Carey Bay | 1698 | DBASRP | 4/21/98 | 15:07:34 | 2.8 | 1 | 12.6 | 11.6 | 5.87 | 6.93 | 47.4 | 0.03 | 92.2 | 217 | 385 |
| Carey Bay | 2198 | ASJLDT | 5/26/98 | 13:24:59 | 3.9 | 10 | 0.3 | 11.2 | 11.87 | 7.19 | 33.7 | 0.02 | 104.6 | 46 | 380 |
| Carey Bay | 2198 | ASJLDT | 5/26/98 | 13:24:59 | 3.9 | 9 | 1 | 11.2 | 11.86 | 7.18 | 33.7 | 0.02 | 104.3 | 124 | 380 |
| Carey Bay | 2198 | ASJLDT | 5/26/98 | 13:24:59 | 3.9 | 8 | 2.5 | 11.2 | 11.86 | 7.13 | 33.7 | 0.02 | 104.4 | 55 | 381 |
| Carey Bay | 2198 | ASJLDT | 5/26/98 | 13:24:59 | 3.9 | 7 | 4 | 11.2 | 11.82 | 7.15 | 33.9 | 0.02 | 104.5 | 48 | 379 |

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|-----------|------|--------|---------|----------|-----|----|------|------|-------|------|------|------|-------|-----|-----|
| Carey Bay | 2198 | ASJLDT | 5/26/98 | 13:24:59 | 3.9 | 6 | 5.5 | 11.2 | 11.66 | 7.14 | 33.8 | 0.02 | 104.1 | 49 | 376 |
| Carey Bay | 2198 | ASJLDT | 5/26/98 | 13:24:59 | 3.9 | 5 | 7 | 11.2 | 11.02 | 7.07 | 34.1 | 0.02 | 102.7 | 114 | 377 |
| Carey Bay | 2198 | ASJLDT | 5/26/98 | 13:24:59 | 3.9 | 4 | 8.5 | 11.3 | 10.82 | 7.06 | 34.5 | 0.02 | 102.8 | 117 | 375 |
| Carey Bay | 2198 | ASJLDT | 5/26/98 | 13:24:59 | 3.9 | 3 | 10 | 11.2 | 9.99 | 6.99 | 35.9 | 0.02 | 100.4 | 40 | 374 |
| Carey Bay | 2198 | ASJLDT | 5/26/98 | 13:24:59 | 3.9 | 2 | 11.5 | 11.3 | 9.56 | 6.9 | 37.9 | 0.02 | 99.6 | 40 | 377 |
| Carey Bay | 2198 | ASJLDT | 5/26/98 | 13:24:59 | 3.9 | 1 | 13 | 11.2 | 9.3 | 6.9 | 38.8 | 0.02 | 98.8 | 202 | 375 |
| | | | | | | | | | | | | | | | |
| Carey Bay | 2398 | DTJLAS | 6/8/98 | 12:38:40 | 3.1 | 13 | 0.3 | 10.9 | 16.57 | 7.64 | 38.5 | 0.02 | 112.2 | 50 | 375 |
| Carey Bay | 2398 | DTJLAS | 6/8/98 | 12:38:40 | 3.1 | 12 | 1.3 | 10.9 | 16.25 | 7.62 | 38.5 | 0.02 | 111 | 52 | 378 |
| Carey Bay | 2398 | DTJLAS | 6/8/98 | 12:38:40 | 3.1 | 11 | 2.3 | 11.1 | 14.81 | 7.6 | 38.5 | 0.02 | 109.8 | 56 | 379 |
| Carey Bay | 2398 | DTJLAS | 6/8/98 | 12:38:40 | 3.1 | 10 | 3.3 | 11.1 | 14.54 | 7.55 | 38.4 | 0.02 | 109.4 | 43 | 381 |
| Carey Bay | 2398 | DTJLAS | 6/8/98 | 12:38:40 | 3.1 | 9 | 4.3 | 11.2 | 14.21 | 7.49 | 38.7 | 0.02 | 108.7 | 56 | 383 |
| Carey Bay | 2398 | DTJLAS | 6/8/98 | 12:38:40 | 3.1 | 8 | 5.3 | 11.1 | 13.56 | 7.4 | 38.6 | 0.02 | 106.8 | 55 | 385 |
| Carey Bay | 2398 | DTJLAS | 6/8/98 | 12:38:40 | 3.1 | 7 | 6.3 | 11.1 | 13.14 | 7.34 | 38.6 | 0.02 | 105.5 | 56 | 386 |
| Carey Bay | 2398 | DTJLAS | 6/8/98 | 12:38:40 | 3.1 | 6 | 7.3 | 10.9 | 12.55 | 7.25 | 38.2 | 0.02 | 102 | 41 | 387 |
| Carey Bay | 2398 | DTJLAS | 6/8/98 | 12:38:40 | 3.1 | 5 | 8.3 | 10.8 | 12.45 | 7.23 | 37.9 | 0.02 | 101.6 | 57 | 387 |
| Carey Bay | 2398 | DTJLAS | 6/8/98 | 12:38:40 | 3.1 | 4 | 9.3 | 10.8 | 12.14 | 7.2 | 37.2 | 0.02 | 100.3 | 109 | 388 |
| Carey Bay | 2398 | DTJLAS | 6/8/98 | 12:38:40 | 3.1 | 3 | 10.3 | 10.2 | 11.58 | 7.11 | 37.6 | 0.02 | 93.9 | 58 | 389 |
| Carey Bay | 2398 | DTJLAS | 6/8/98 | 12:38:40 | 3.1 | 2 | 11.3 | 10.3 | 10.86 | 7.08 | 37.8 | 0.02 | 93.1 | 58 | 389 |
| Carey Bay | 2398 | DTJLAS | 6/8/98 | 12:38:40 | 3.1 | 1 | 12.3 | 10.2 | 10.43 | 7.06 | 38.6 | 0.02 | 91.1 | 143 | 391 |
| | | | | | | | | | | | | | | | |
| Carey Bay | 2598 | DTASBH | 6/22/98 | 13:41:37 | 4.3 | 14 | 0.2 | 10.1 | 19.38 | 7.55 | 42.7 | 0.03 | 110 | 32 | 355 |
| Carey Bay | 2598 | DTASBH | 6/22/98 | 13:41:37 | 4.3 | 13 | 1.6 | 10.1 | 19.16 | 7.54 | 42.8 | 0.03 | 109.2 | 107 | 356 |
| Carey Bay | 2598 | DTASBH | 6/22/98 | 13:41:37 | 4.3 | 12 | 2.6 | 10.6 | 16.73 | 7.58 | 43.5 | 0.03 | 109.4 | 59 | 358 |
| Carey Bay | 2598 | DTASBH | 6/22/98 | 13:41:37 | 4.3 | 11 | 3.6 | 10.7 | 16.61 | 7.59 | 43.6 | 0.03 | 109.7 | 116 | 357 |
| Carey Bay | 2598 | DTASBH | 6/22/98 | 13:41:37 | 4.3 | 10 | 4.6 | 10.8 | 16.39 | 7.6 | 45.6 | 0.03 | 110.8 | 46 | 357 |
| Carey Bay | 2598 | DTASBH | 6/22/98 | 13:41:37 | 4.3 | 9 | 5.6 | 10.9 | 16.11 | 7.6 | 46.3 | 0.03 | 111 | 108 | 357 |
| Carey Bay | 2598 | DTASBH | 6/22/98 | 13:41:37 | 4.3 | 8 | 6.6 | 10.8 | 15.86 | 7.49 | 46.7 | 0.03 | 109 | 52 | 359 |
| Carey Bay | 2598 | DTASBH | 6/22/98 | 13:41:37 | 4.3 | 7 | 7.6 | 10.8 | 15.54 | 7.45 | 43.6 | 0.03 | 108.1 | 137 | 359 |
| Carey Bay | 2598 | DTASBH | 6/22/98 | 13:41:37 | 4.3 | 6 | 8.6 | 10.9 | 14.57 | 7.38 | 42.6 | 0.03 | 107.1 | 104 | 359 |
| Carey Bay | 2598 | DTASBH | 6/22/98 | 13:41:37 | 4.3 | 5 | 9.6 | 11 | 13.89 | 7.33 | 42.2 | 0.03 | 106.1 | 115 | 360 |
| Carey Bay | 2598 | DTASBH | 6/22/98 | 13:41:37 | 4.3 | 4 | 10.6 | 10.9 | 13.17 | 7.23 | 40.3 | 0.03 | 103.7 | 114 | 361 |
| Carey Bay | 2598 | DTASBH | 6/22/98 | 13:41:37 | 4.3 | 3 | 11.6 | 10.5 | 12.79 | 7.15 | 39.7 | 0.03 | 99.6 | 118 | 361 |
| Carey Bay | 2598 | DTASBH | 6/22/98 | 13:41:37 | 4.3 | 2 | 12.6 | 10.6 | 12.16 | 7.13 | 39.7 | 0.03 | 98.7 | 155 | 359 |
| Carey Bay | 2598 | DTASBH | 6/22/98 | 13:41:37 | 4.3 | 1 | 13.6 | 10 | 11.29 | 7.05 | 38.9 | 0.02 | 91.7 | 129 | 358 |
| | | | | | | | | | | | | | | | |
| Carey Bay | 2798 | DTASBH | 7/7/98 | 12:50:28 | 5.1 | 13 | 0.3 | 9.02 | 24.79 | 7.68 | 51.4 | 0.03 | 108.2 | 200 | 338 |
| Carey Bay | 2798 | DTASBH | 7/7/98 | 12:50:28 | 5.1 | 12 | 1.7 | 10.3 | 20.18 | 7.78 | 51.1 | 0.03 | 113.6 | 103 | 340 |
| Carey Bay | 2798 | DTASBH | 7/7/98 | 12:50:28 | 5.1 | 11 | 2.7 | 10.6 | 18.99 | 7.84 | 50.5 | 0.03 | 114 | 103 | 339 |
| Carey Bay | 2798 | DTASBH | 7/7/98 | 12:50:28 | 5.1 | 10 | 3.7 | 10.7 | 17.88 | 7.8 | 50.5 | 0.03 | 112.3 | 126 | 341 |
| Carey Bay | 2798 | DTASBH | 7/7/98 | 12:50:28 | 5.1 | 9 | 4.7 | 11 | 17.3 | 7.96 | 50.2 | 0.03 | 113.5 | 114 | 339 |
| Carey Bay | 2798 | DTASBH | 7/7/98 | 12:50:28 | 5.1 | 8 | 5.7 | 10.9 | 17.1 | 7.81 | 50.3 | 0.03 | 112.3 | 125 | 342 |
| Carey Bay | 2798 | DTASBH | 7/7/98 | 12:50:28 | 5.1 | 7 | 6.7 | 10.4 | 16.41 | 7.54 | 48.2 | 0.03 | 105.6 | 123 | 346 |
| Carey Bay | 2798 | DTASBH | 7/7/98 | 12:50:28 | 5.1 | 6 | 7.7 | 10.6 | 16.02 | 7.53 | 47.7 | 0.03 | 107.1 | 138 | 346 |

| | | | | | | | | | | | | | | | |
|-----------|------|--------|---------|----------|-----|----|------|------|-------|------|------|------|-------|-----|-----|
| Carey Bay | 2798 | DTASBH | 7/7/98 | 12:50:28 | 5.1 | 5 | 8.7 | 10.4 | 15.67 | 7.4 | 47.2 | 0.03 | 104 | 113 | 347 |
| Carey Bay | 2798 | DTASBH | 7/7/98 | 12:50:28 | 5.1 | 4 | 9.7 | 10.3 | 15.49 | 7.37 | 47.2 | 0.03 | 103.2 | 119 | 347 |
| Carey Bay | 2798 | DTASBH | 7/7/98 | 12:50:28 | 5.1 | 3 | 10.7 | 10.2 | 15.32 | 7.29 | 47 | 0.03 | 101.6 | 143 | 348 |
| Carey Bay | 2798 | DTASBH | 7/7/98 | 12:50:28 | 5.1 | 2 | 11.7 | 9.97 | | 7.21 | 46.2 | 0.03 | 98.2 | 246 | 348 |
| Carey Bay | 2798 | DTASBH | 7/7/98 | 12:50:28 | 5.1 | 1 | 12.7 | 9.41 | 14.14 | 7.05 | 45.9 | 0.03 | 91.2 | 218 | 348 |
| Carey Bay | 2998 | ASBH | 7/20/98 | 11:26:44 | 8.6 | 14 | 0.5 | 8.93 | 23.64 | 7.79 | 51.7 | 0.03 | 105 | 120 | 395 |
| Carey Bay | 2998 | ASBH | 7/20/98 | 11:26:44 | 8.6 | 13 | 1.5 | 9.24 | 22.7 | 7.86 | 51.2 | 0.03 | 106.7 | 124 | 398 |
| Carey Bay | 2998 | ASBH | 7/20/98 | 11:26:44 | 8.6 | 12 | 2.5 | 9.42 | 22.29 | 7.95 | 50.9 | 0.03 | 108 | 102 | 398 |
| Carey Bay | 2998 | ASBH | 7/20/98 | 11:26:44 | 8.6 | 11 | 3.5 | 10.2 | 20.83 | 8.11 | 48.7 | 0.03 | 113.2 | 152 | 398 |
| Carey Bay | 2998 | ASBH | 7/20/98 | 11:26:44 | 8.6 | 10 | 4.5 | 10.4 | 19.82 | 8.02 | 47.5 | 0.03 | 113.4 | 110 | 403 |
| Carey Bay | 2998 | ASBH | 7/20/98 | 11:26:44 | 8.6 | 9 | 5.5 | 10.3 | 19.75 | 7.91 | 47.7 | 0.03 | 112.1 | 135 | 406 |
| Carey Bay | 2998 | ASBH | 7/20/98 | 11:26:44 | 8.6 | 8 | 6.5 | 10.6 | 19.06 | 7.93 | 46.7 | 0.03 | 113.7 | 51 | 408 |
| Carey Bay | 2998 | ASBH | 7/20/98 | 11:26:44 | 8.6 | 7 | 7.5 | 10.5 | 18.58 | 7.7 | 46.3 | 0.03 | 111.4 | 204 | 416 |
| Carey Bay | 2998 | ASBH | 7/20/98 | 11:26:44 | 8.6 | 6 | 8.5 | 10.1 | 17.69 | 7.32 | 45.7 | 0.03 | 105.5 | 44 | 427 |
| Carey Bay | 2998 | ASBH | 7/20/98 | 11:26:44 | 8.6 | 5 | 9.5 | 9.84 | 16.27 | 7.09 | 45.4 | 0.03 | 100 | 131 | 431 |
| Carey Bay | 2998 | ASBH | 7/20/98 | 11:26:44 | 8.6 | 4 | 10.5 | 9.27 | 15.45 | 6.94 | 45.1 | 0.03 | 92.6 | 136 | 434 |
| Carey Bay | 2998 | ASBH | 7/20/98 | 11:26:44 | 8.6 | 3 | 11.5 | 9.16 | 13.88 | 6.83 | 43.5 | 0.03 | 88.4 | 59 | 438 |
| Carey Bay | 2998 | ASBH | 7/20/98 | 11:26:44 | 8.6 | 2 | 12.5 | 8.32 | 12.74 | 6.65 | 42.9 | 0.03 | 78.2 | 40 | 445 |
| Carey Bay | 2998 | ASBH | 7/20/98 | 11:26:44 | 8.6 | 1 | 13.5 | 7.51 | 12.15 | 6.59 | 42.7 | 0.03 | 69.7 | 252 | 447 |
| Carey Bay | 3298 | DBAS | 8/10/98 | 11:43:00 | 9.1 | 14 | 0.6 | 8.54 | 24.09 | 7.66 | 58.5 | 0.04 | 101.1 | 52 | 346 |
| Carey Bay | 3298 | DBAS | 8/10/98 | 11:43:00 | 9.1 | 13 | 1.7 | 8.59 | 23.62 | 7.63 | 58.3 | 0.04 | 100.9 | 49 | 347 |
| Carey Bay | 3298 | DBAS | 8/10/98 | 11:43:00 | 9.1 | 12 | 2.7 | 8.67 | 23.42 | 7.62 | 57.6 | 0.04 | 101.4 | 40 | 347 |
| Carey Bay | 3298 | DBAS | 8/10/98 | 11:43:00 | 9.1 | 11 | 3.6 | 8.81 | 23.13 | 7.63 | 57.7 | 0.04 | 102.5 | 124 | 348 |
| Carey Bay | 3298 | DBAS | 8/10/98 | 11:43:00 | 9.1 | 10 | 4.5 | 8.84 | 22.99 | 7.59 | 57 | 0.04 | 102.6 | 51 | 350 |
| Carey Bay | 3298 | DBAS | 8/10/98 | 11:43:00 | 9.1 | 9 | 5.6 | 9.06 | 22.22 | 7.52 | 55.6 | 0.04 | 103.7 | 54 | 353 |
| Carey Bay | 3298 | DBAS | 8/10/98 | 11:43:00 | 9.1 | 8 | 6.7 | 9.38 | 21.16 | 7.46 | 53.2 | 0.03 | 105.1 | 58 | 355 |
| Carey Bay | 3298 | DBAS | 8/10/98 | 11:43:00 | 9.1 | 7 | 7.8 | 9.63 | 20.32 | 7.4 | 50.8 | 0.03 | 106.2 | 39 | 356 |
| Carey Bay | 3298 | DBAS | 8/10/98 | 11:43:00 | 9.1 | 6 | 8.8 | 9.61 | 19.8 | 7.37 | 50.7 | 0.03 | 104.9 | 56 | 357 |
| Carey Bay | 3298 | DBAS | 8/10/98 | 11:43:00 | 9.1 | 5 | 9.7 | 9.69 | 19.5 | 7.31 | 50.4 | 0.03 | 105.1 | 104 | 358 |
| Carey Bay | 3298 | DBAS | 8/10/98 | 11:43:00 | 9.1 | 4 | 10.8 | 9.59 | 18.65 | 7.18 | 49.5 | 0.03 | 102.2 | 114 | 361 |
| Carey Bay | 3298 | DBAS | 8/10/98 | 11:43:00 | 9.1 | 3 | 11.8 | 8.84 | 17.25 | 6.96 | 49.2 | 0.03 | 91.6 | 41 | 366 |
| Carey Bay | 3298 | DBAS | 8/10/98 | 11:43:00 | 9.1 | 2 | 12.7 | 7.87 | 15.27 | 6.84 | 48.4 | 0.03 | 78.2 | 144 | 368 |
| Carey Bay | 3298 | DBAS | 8/10/98 | 11:43:00 | 9.1 | 1 | 13.7 | 6.62 | 13.55 | 6.77 | 48.8 | 0.03 | 63.3 | 23 | 369 |
| Carey Bay | 3498 | ASDNGL | 8/25/98 | 13:20:35 | 6.8 | 14 | 0.2 | 9.14 | 22.49 | 7.89 | 55.5 | 0.04 | 105.6 | 101 | 332 |
| Carey Bay | 3498 | ASDNGL | 8/25/98 | 13:20:35 | 6.8 | 13 | 1.2 | 9.16 | 22.49 | 7.93 | 55.5 | 0.04 | 105.8 | 101 | 329 |
| Carey Bay | 3498 | ASDNGL | 8/25/98 | 13:20:35 | 6.8 | 12 | 2.2 | 9.19 | 22.4 | 7.93 | 55.6 | 0.04 | 105.9 | 40 | 329 |
| Carey Bay | 3498 | ASDNGL | 8/25/98 | 13:20:35 | 6.8 | 11 | 3.2 | 9.28 | 21.85 | 7.94 | 55.4 | 0.04 | 105.9 | 56 | 329 |
| Carey Bay | 3498 | ASDNGL | 8/25/98 | 13:20:35 | 6.8 | 10 | 4.2 | 9.2 | 21.72 | 7.89 | 55.1 | 0.04 | 104.7 | 52 | 331 |
| Carey Bay | 3498 | ASDNGL | 8/25/98 | 13:20:35 | 6.8 | 9 | 5.2 | 9.25 | 21.55 | 7.82 | 55.3 | 0.04 | 105 | 59 | 333 |
| Carey Bay | 3498 | ASDNGL | 8/25/98 | 13:20:35 | 6.8 | 8 | 6.2 | 8.89 | 21.49 | 7.61 | 55.3 | 0.04 | 100.7 | 56 | 339 |
| Carey Bay | 3498 | ASDNGL | 8/25/98 | 13:20:35 | 6.8 | 7 | 7.2 | 9.04 | 21.37 | 7.62 | 55.3 | 0.04 | 102.2 | 130 | 339 |

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|-----------|------|--------|----------|----------|-----|----|------|------|-------|------|------|------|-------|-----|-----|
| Carey Bay | 3498 | ASDNGL | 8/25/98 | 13:20:35 | 6.8 | 6 | 8.2 | 8.65 | 21.26 | 7.33 | 55.2 | 0.04 | 97.6 | 115 | 346 |
| Carey Bay | 3498 | ASDNGL | 8/25/98 | 13:20:35 | 6.8 | 5 | 9.2 | 8.43 | 19.87 | 7.06 | 50.7 | 0.03 | 92.6 | 108 | 352 |
| Carey Bay | 3498 | ASDNGL | 8/25/98 | 13:20:35 | 6.8 | 4 | 10.2 | 8.05 | 18.94 | 6.96 | 48.9 | 0.03 | 86.8 | 210 | 354 |
| Carey Bay | 3498 | ASDNGL | 8/25/98 | 13:20:35 | 6.8 | 3 | 11.2 | 7.39 | 16.69 | 6.77 | 46.5 | 0.03 | 76 | 125 | 358 |
| Carey Bay | 3498 | ASDNGL | 8/25/98 | 13:20:35 | 6.8 | 2 | 12.2 | 5.61 | 14.03 | 6.59 | 47.5 | 0.03 | 54.5 | 128 | 361 |
| Carey Bay | 3498 | ASDNGL | 8/25/98 | 13:20:35 | 6.8 | 1 | 13.2 | 4.67 | 12.41 | 6.54 | 48.5 | 0.03 | 43.8 | 330 | 362 |
| | | | | | | | | | | | | | | | |
| Carey Bay | 3598 | DTAS | 9/3/98 | 14:16:15 | 6.8 | 14 | 0.3 | 8.96 | 22.9 | 7.78 | 58.7 | 0.04 | 104.4 | 50 | 300 |
| Carey Bay | 3598 | DTAS | 9/3/98 | 14:16:15 | 6.8 | 13 | 1.3 | 8.98 | 22.43 | 7.87 | 58.6 | 0.04 | 103.8 | 38 | 296 |
| Carey Bay | 3598 | DTAS | 9/3/98 | 14:16:15 | 6.8 | 12 | 2.3 | 9.23 | 21.48 | 7.93 | 58.7 | 0.04 | 104.8 | 30 | 295 |
| Carey Bay | 3598 | DTAS | 9/3/98 | 14:16:15 | 6.8 | 11 | 3.3 | 9.21 | 21.26 | 7.92 | 58.4 | 0.04 | 104.1 | 133 | 296 |
| Carey Bay | 3598 | DTAS | 9/3/98 | 14:16:15 | 6.8 | 10 | 4.3 | 9.23 | 21.14 | 7.86 | 58.4 | 0.04 | 104.1 | 107 | 297 |
| Carey Bay | 3598 | DTAS | 9/3/98 | 14:16:15 | 6.8 | 9 | 5.3 | 9.25 | 21.05 | 7.83 | 58.4 | 0.04 | 104.2 | 118 | 297 |
| Carey Bay | 3598 | DTAS | 9/3/98 | 14:16:15 | 6.8 | 8 | 6.3 | 9.19 | 21.07 | 7.73 | 58.3 | 0.04 | 103.5 | 147 | 300 |
| Carey Bay | 3598 | DTAS | 9/3/98 | 14:16:15 | 6.8 | 7 | 7.3 | 9.06 | 20.97 | 7.6 | 58 | 0.04 | 101.8 | 323 | 303 |
| Carey Bay | 3598 | DTAS | 9/3/98 | 14:16:15 | 6.8 | 6 | 8.3 | 8.78 | 20.27 | 7.17 | 55.7 | 0.04 | 97.3 | 57 | 319 |
| Carey Bay | 3598 | DTAS | 9/3/98 | 14:16:15 | 6.8 | 5 | 9.3 | 7.54 | 19.09 | 6.9 | 52.3 | 0.03 | 81.7 | 120 | 325 |
| Carey Bay | 3598 | DTAS | 9/3/98 | 14:16:15 | 6.8 | 4 | 10.3 | 7.08 | 16.44 | 6.76 | 47.4 | 0.03 | 72.6 | 111 | 328 |
| Carey Bay | 3598 | DTAS | 9/3/98 | 14:16:15 | 6.8 | 3 | 11.3 | 6.29 | 15.04 | 6.65 | 48.5 | 0.03 | 62.6 | 115 | 328 |
| Carey Bay | 3598 | DTAS | 9/3/98 | 14:16:15 | 6.8 | 2 | 12.3 | 4.6 | 11.46 | 0 | 49.9 | 0.03 | 42.2 | 204 | 329 |
| Carey Bay | 3598 | DTAS | 9/3/98 | 14:16:15 | 6.8 | 1 | 13.3 | 4.88 | 11.2 | 6.57 | 49.5 | 0.03 | 44.6 | 159 | 317 |
| | | | | | | | | | | | | | | | |
| Carey Bay | 3998 | ASKB | 9/30/98 | 14:15:00 | 6 | 13 | 0.3 | 9.04 | 19.23 | 7.66 | 61.1 | 0.04 | 97.8 | 56 | 336 |
| Carey Bay | 3998 | ASKB | 9/30/98 | 14:15:00 | 6 | 12 | 1.9 | 9.14 | 17.95 | 7.62 | 61 | 0.04 | 96.3 | 44 | 339 |
| Carey Bay | 3998 | ASKB | 9/30/98 | 14:15:00 | 6 | 11 | 2.9 | 9.1 | 17.76 | 7.6 | 61.1 | 0.04 | 95.5 | 53 | 340 |
| Carey Bay | 3998 | ASKB | 9/30/98 | 14:15:00 | 6 | 10 | 3.9 | 9.1 | 17.76 | 7.55 | 61.2 | 0.04 | 95.5 | 111 | 342 |
| Carey Bay | 3998 | ASKB | 9/30/98 | 14:15:00 | 6 | 9 | 4.9 | 8.89 | 17.61 | 7.47 | 60.8 | 0.04 | 93 | 43 | 344 |
| Carey Bay | 3998 | ASKB | 9/30/98 | 14:15:00 | 6 | 8 | 5.9 | 8.82 | 17.57 | 7.43 | 60.7 | 0.04 | 92.2 | 28 | 346 |
| Carey Bay | 3998 | ASKB | 9/30/98 | 14:15:00 | 6 | 7 | 6.9 | 8.81 | 17.57 | 7.42 | 60.9 | 0.04 | 92.1 | 104 | 345 |
| Carey Bay | 3998 | ASKB | 9/30/98 | 14:15:00 | 6 | 6 | 8 | 8.8 | 17.56 | 7.39 | 61.3 | 0.04 | 92 | 53 | 347 |
| Carey Bay | 3998 | ASKB | 9/30/98 | 14:15:00 | 6 | 5 | 8.9 | 8.78 | 17.56 | 7.35 | 60.6 | 0.04 | 91.8 | 112 | 348 |
| Carey Bay | 3998 | ASKB | 9/30/98 | 14:15:00 | 6 | 4 | 9.9 | 8.49 | 17.51 | 7.23 | 60.7 | 0.04 | 88.6 | 34 | 351 |
| Carey Bay | 3998 | ASKB | 9/30/98 | 14:15:00 | 6 | 3 | 11 | 8.13 | 17.37 | 7.17 | 61 | 0.04 | 84.7 | 154 | 352 |
| Carey Bay | 3998 | ASKB | 9/30/98 | 14:15:00 | 6 | 2 | 11.9 | 7.35 | 16.91 | 6.98 | 60 | 0.04 | 75.8 | 128 | 356 |
| Carey Bay | 3998 | ASKB | 9/30/98 | 14:15:00 | 6 | 1 | 12.9 | 5.88 | 16.12 | 6.86 | 57.2 | 0.04 | 59.7 | 636 | 358 |
| | | | | | | | | | | | | | | | |
| Carey Bay | 4298 | DTASJB | 10/19/98 | 12:57:51 | 6.2 | 13 | 0.4 | 9.13 | 13.25 | 7.35 | 58.7 | 0.04 | 86.2 | 30 | 334 |
| Carey Bay | 4298 | DTASJB | 10/19/98 | 12:57:51 | 6.2 | 12 | 1.4 | 9.04 | 12.99 | 7.36 | 58.6 | 0.04 | 84.8 | 245 | 334 |
| Carey Bay | 4298 | DTASJB | 10/19/98 | 12:57:51 | 6.2 | 11 | 2.4 | 9 | 12.78 | 7.35 | 58.6 | 0.04 | 84.1 | 133 | 333 |
| Carey Bay | 4298 | DTASJB | 10/19/98 | 12:57:51 | 6.2 | 10 | 3.4 | 9.02 | 12.71 | 7.35 | 58.4 | 0.04 | 84 | 46 | 332 |
| Carey Bay | 4298 | DTASJB | 10/19/98 | 12:57:51 | 6.2 | 9 | 4.4 | 9 | 12.68 | 7.32 | 58.7 | 0.04 | 83.8 | 49 | 333 |
| Carey Bay | 4298 | DTASJB | 10/19/98 | 12:57:51 | 6.2 | 8 | 5.4 | 8.98 | 12.68 | 7.31 | 58.6 | 0.04 | 83.6 | 39 | 333 |
| Carey Bay | 4298 | DTASJB | 10/19/98 | 12:57:51 | 6.2 | 7 | 6.4 | 8.99 | 12.68 | 7.3 | 58.6 | 0.04 | 83.7 | 42 | 333 |
| Carey Bay | 4298 | DTASJB | 10/19/98 | 12:57:51 | 6.2 | 6 | 7.4 | 8.98 | 12.66 | 7.29 | 58.7 | 0.04 | 83.6 | 35 | 333 |

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|-----------|------|--------|----------|----------|-----|----|------|------|-------|------|------|------|------|-----|-----|
| Carey Bay | 4298 | DTASJB | 10/19/98 | 12:57:51 | 6.2 | 5 | 8.4 | 8.93 | 12.66 | 7.29 | 58.6 | 0.04 | 83.2 | 109 | 332 |
| Carey Bay | 4298 | DTASJB | 10/19/98 | 12:57:51 | 6.2 | 4 | 9.4 | 8.94 | 12.65 | 7.29 | 58.2 | 0.04 | 83.2 | 59 | 330 |
| Carey Bay | 4298 | DTASJB | 10/19/98 | 12:57:51 | 6.2 | 3 | 10.4 | 8.92 | 12.65 | 7.3 | 58.8 | 0.04 | 83 | 103 | 328 |
| Carey Bay | 4298 | DTASJB | 10/19/98 | 12:57:51 | 6.2 | 2 | 11.4 | 8.98 | 12.6 | 7.3 | 58.4 | 0.04 | 83.5 | 56 | 327 |
| Carey Bay | 4298 | DTASJB | 10/19/98 | 12:57:51 | 6.2 | 1 | 12.4 | 8.96 | 12.56 | 7.3 | 58.7 | 0.04 | 83.2 | 624 | 329 |
| Carey Bay | 4698 | KBAS | 11/17/98 | 12:50:00 | 4.8 | 12 | 0.6 | 8.25 | 8.47 | 7.21 | 55 | 0.04 | 71.1 | 26 | 320 |
| Carey Bay | 4698 | KBAS | 11/17/98 | 12:50:00 | 4.8 | 11 | 1.7 | 8.23 | 8.45 | 7.19 | 54.9 | 0.04 | 71 | 37 | 321 |
| Carey Bay | 4698 | KBAS | 11/17/98 | 12:50:00 | 4.8 | 10 | 2.7 | 8.2 | 8.46 | 7.14 | 54.9 | 0.04 | 70.7 | 35 | 323 |
| Carey Bay | 4698 | KBAS | 11/17/98 | 12:50:00 | 4.8 | 9 | 3.7 | 8.19 | 8.47 | 7.14 | 55 | 0.04 | 70.6 | 37 | 323 |
| Carey Bay | 4698 | KBAS | 11/17/98 | 12:50:00 | 4.8 | 8 | 4.7 | 8.2 | 8.47 | 7.14 | 54.9 | 0.04 | 70.7 | 46 | 322 |
| Carey Bay | 4698 | KBAS | 11/17/98 | 12:50:00 | 4.8 | 7 | 5.7 | 8.19 | 8.47 | 0 | 55.3 | 0.04 | 70.6 | 115 | 322 |
| Carey Bay | 4698 | KBAS | 11/17/98 | 12:50:00 | 4.8 | 6 | 6.7 | 8.13 | 8.45 | 7.11 | 54.9 | 0.04 | 70.1 | 103 | 322 |
| Carey Bay | 4698 | KBAS | 11/17/98 | 12:50:00 | 4.8 | 5 | 7.7 | 8.17 | 8.45 | 7.1 | 55.4 | 0.04 | 70.5 | 51 | 322 |
| Carey Bay | 4698 | KBAS | 11/17/98 | 12:50:00 | 4.8 | 4 | 8.7 | 8.15 | 8.45 | 7.08 | 54.9 | 0.04 | 70.3 | 130 | 321 |
| Carey Bay | 4698 | KBAS | 11/17/98 | 12:50:00 | 4.8 | 3 | 9.7 | 7.79 | 8.3 | 7.01 | 54.5 | 0.03 | 66.9 | 57 | 320 |
| Carey Bay | 4698 | KBAS | 11/17/98 | 12:50:00 | 4.8 | 2 | 10.8 | 7.61 | 8.2 | 6.99 | 54.3 | 0.03 | 65.2 | 105 | 318 |
| Carey Bay | 4698 | KBAS | 11/17/98 | 12:50:00 | 4.8 | 1 | 11.7 | 7.65 | 8.17 | 7.02 | 55.1 | 0.04 | 65.5 | 659 | 320 |

| Location | Phase | Samplers | Date | Time | Secchi (m) | Sequence | Depth (m) | Dissolved Oxygen (mg/L) | Temperature (C) | pH | Conductivity (μs/cm) | TDS | Saturated Dissolved Oxygen | Stabilization Time | Redox |
|----------------|-------|----------|---------|----------|------------|----------|-----------|-------------------------|-----------------|------|----------------------|------|----------------------------|--------------------|-------|
| Conkling Point | 1398 | DBRP | 4/3/98 | 10:42:23 | 3.1 | 15 | 0.5 | 12.6 | 7.37 | 7 | 41.8 | 0.03 | 105.6 | 44 | 428 |
| Conkling Point | 1398 | DBRP | 4/3/98 | 10:42:23 | 3.1 | 14 | 1.5 | 12.6 | 6.79 | 6.98 | 39.5 | 0.03 | 103.7 | 56 | 431 |
| Conkling Point | 1398 | DBRP | 4/3/98 | 10:42:23 | 3.1 | 13 | 2.5 | 12.6 | 6.41 | 6.99 | 38.7 | 0.02 | 102.9 | 101 | 431 |
| Conkling Point | 1398 | DBRP | 4/3/98 | 10:42:23 | 3.1 | 12 | 3.5 | 12.6 | 6.36 | 6.97 | 38.9 | 0.02 | 102.8 | 32 | 432 |
| Conkling Point | 1398 | DBRP | 4/3/98 | 10:42:23 | 3.1 | 11 | 4.5 | 12.6 | 6.31 | 6.91 | 38.8 | 0.02 | 102.6 | 32 | 435 |
| Conkling Point | 1398 | DBRP | 4/3/98 | 10:42:23 | 3.1 | 10 | 5.5 | 12.6 | 6.26 | 6.91 | 38.9 | 0.02 | 102.4 | 39 | 435 |
| Conkling Point | 1398 | DBRP | 4/3/98 | 10:42:23 | 3.1 | 9 | 6.5 | 12.6 | 6.25 | 6.87 | 39 | 0.02 | 102.3 | 31 | 438 |
| Conkling Point | 1398 | DBRP | 4/3/98 | 10:42:23 | 3.1 | 8 | 7.5 | 12.5 | 6.22 | 6.9 | 39.1 | 0.03 | 101.4 | 103 | 436 |
| Conkling Point | 1398 | DBRP | 4/3/98 | 10:42:23 | 3.1 | 7 | 8.5 | 12.5 | 6.17 | 6.83 | 39 | 0.02 | 101.6 | 43 | 439 |
| Conkling Point | 1398 | DBRP | 4/3/98 | 10:42:23 | 3.1 | 6 | 9.5 | 12.4 | 6.07 | 6.83 | 39.1 | 0.03 | 100.6 | 46 | 439 |
| Conkling Point | 1398 | DBRP | 4/3/98 | 10:42:23 | 3.1 | 5 | 10.5 | 12.5 | 6.05 | 6.77 | 39 | 0.03 | 100.6 | 25 | 442 |
| Conkling Point | 1398 | DBRP | 4/3/98 | 10:42:23 | 3.1 | 4 | 11.5 | 12.4 | 5.85 | 6.75 | 39.3 | 0.03 | 99.7 | 48 | 443 |
| Conkling Point | 1398 | DBRP | 4/3/98 | 10:42:23 | 3.1 | 3 | 12.5 | 12.3 | 5.77 | 6.73 | 40 | 0.03 | 98.6 | 34 | 445 |
| Conkling Point | 1398 | DBRP | 4/3/98 | 10:42:23 | 3.1 | 2 | 13.5 | 12.2 | 5.77 | 6.7 | 41.1 | 0.03 | 97.7 | 44 | 447 |
| Conkling Point | 1398 | DBRP | 4/3/98 | 10:42:23 | 3.1 | 1 | 14.5 | 11.8 | 5.8 | 6.67 | 43.4 | 0.03 | 95 | 228 | 449 |
| Conkling Point | 1698 | DBASRP | 4/21/98 | 14:06:07 | 2.6 | 16 | 0.3 | 11.9 | 11.12 | 7.08 | 42.8 | 0.03 | 107.7 | 100 | 402 |
| Conkling Point | 1698 | DBASRP | 4/21/98 | 14:06:07 | 2.6 | 15 | 0.8 | 11.8 | 10.68 | 7.13 | 42.6 | 0.03 | 105.9 | 132 | 403 |
| Conkling Point | 1698 | DBASRP | 4/21/98 | 14:06:07 | 2.6 | 14 | 1.7 | 12 | 8.65 | 7.09 | 42.2 | 0.03 | 103 | 121 | 404 |
| Conkling Point | 1698 | DBASRP | 4/21/98 | 14:06:07 | 2.6 | 13 | 2.8 | 11.9 | 7.88 | 7.08 | 42.4 | 0.03 | 100.1 | 105 | 407 |
| Conkling Point | 1698 | DBASRP | 4/21/98 | 14:06:07 | 2.6 | 12 | 3.7 | 11.9 | 7.35 | 6.99 | 42.7 | 0.03 | 98.5 | 56 | 410 |
| Conkling Point | 1698 | DBASRP | 4/21/98 | 14:06:07 | 2.6 | 11 | 4.8 | 11.8 | 7.14 | 6.9 | 42.8 | 0.03 | 97.2 | 125 | 414 |

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|----------------|------|--------|---------|----------|-----|----|------|------|-------|------|------|------|-------|-----|-----|
| Conkling Point | 1698 | DBASRP | 4/21/98 | 14:06:07 | 2.6 | 10 | 5.8 | 11.8 | 7.01 | 6.95 | 42.8 | 0.03 | 97 | 145 | 410 |
| Conkling Point | 1698 | DBASRP | 4/21/98 | 14:06:07 | 2.6 | 9 | 6.8 | 11.7 | 6.71 | 6.96 | 43.2 | 0.03 | 95.4 | 142 | 407 |
| Conkling Point | 1698 | DBASRP | 4/21/98 | 14:06:07 | 2.6 | 8 | 7.8 | 11.7 | 6.64 | 6.89 | 43.5 | 0.03 | 95.5 | 140 | 409 |
| Conkling Point | 1698 | DBASRP | 4/21/98 | 14:06:07 | 2.6 | 7 | 8.8 | 11.7 | 6.51 | 6.85 | 44.2 | 0.03 | 94.9 | 118 | 410 |
| Conkling Point | 1698 | DBASRP | 4/21/98 | 14:06:07 | 2.6 | 6 | 9.8 | 11.7 | 6.38 | 6.9 | 44.6 | 0.03 | 94.6 | 142 | 405 |
| Conkling Point | 1698 | DBASRP | 4/21/98 | 14:06:07 | 2.6 | 5 | 10.8 | 11.7 | 6.17 | 6.85 | 45.5 | 0.03 | 94 | 145 | 406 |
| Conkling Point | 1698 | DBASRP | 4/21/98 | 14:06:07 | 2.6 | 4 | 11.8 | 11.7 | 5.92 | 6.83 | 46.8 | 0.03 | 93.1 | 104 | 404 |
| Conkling Point | 1698 | DBASRP | 4/21/98 | 14:06:07 | 2.6 | 3 | 12.7 | 11.3 | 5.89 | 6.77 | 47.4 | 0.03 | 90.3 | 117 | 405 |
| Conkling Point | 1698 | DBASRP | 4/21/98 | 14:06:07 | 2.6 | 2 | 13.7 | 11.1 | 5.8 | 6.72 | 47.9 | 0.03 | 88.5 | 113 | 406 |
| Conkling Point | 1698 | DBASRP | 4/21/98 | 14:06:07 | 2.6 | 1 | 14.8 | 11 | 5.59 | 6.72 | 49.3 | 0.03 | 87.3 | 325 | 406 |
| | | | | | | | | | | | | | | | |
| Conkling Point | 2198 | ASJLDT | 5/26/98 | 13:45:03 | 3.8 | 11 | 0.3 | 11.2 | 11.87 | 7.08 | 33.4 | 0.02 | 104.3 | 23 | 385 |
| Conkling Point | 2198 | ASJLDT | 5/26/98 | 13:45:03 | 3.8 | 10 | 1.5 | 11.2 | 11.89 | 7.15 | 33.5 | 0.02 | 104.3 | 32 | 379 |
| Conkling Point | 2198 | ASJLDT | 5/26/98 | 13:45:03 | 3.8 | 9 | 3 | 11.2 | 11.45 | 7.09 | 33.4 | 0.02 | 103.5 | 44 | 379 |
| Conkling Point | 2198 | ASJLDT | 5/26/98 | 13:45:03 | 3.8 | 8 | 4.5 | 11.2 | 11.1 | 7.15 | 33.3 | 0.02 | 103.2 | 38 | 374 |
| Conkling Point | 2198 | ASJLDT | 5/26/98 | 13:45:03 | 3.8 | 7 | 6 | 11.3 | 10.99 | 7.07 | 33.2 | 0.02 | 103 | 46 | 377 |
| Conkling Point | 2198 | ASJLDT | 5/26/98 | 13:45:03 | 3.8 | 6 | 7.5 | 11.3 | 10.74 | 6.99 | 33.1 | 0.02 | 102.6 | 33 | 378 |
| Conkling Point | 2198 | ASJLDT | 5/26/98 | 13:45:03 | 3.8 | 5 | 9 | 11.2 | 10.25 | 6.99 | 32.6 | 0.02 | 100.7 | 40 | 376 |
| Conkling Point | 2198 | ASJLDT | 5/26/98 | 13:45:03 | 3.8 | 4 | 10.5 | 11.2 | 9.45 | 6.9 | 32.5 | 0.02 | 98.6 | 44 | 378 |
| Conkling Point | 2198 | ASJLDT | 5/26/98 | 13:45:03 | 3.8 | 3 | 12 | 11.2 | 9.25 | 6.89 | 32 | 0.02 | 98.4 | 104 | 377 |
| Conkling Point | 2198 | ASJLDT | 5/26/98 | 13:45:03 | 3.8 | 2 | 13.5 | 11.3 | 9.24 | 6.93 | 32 | 0.02 | 99 | 107 | 373 |
| Conkling Point | 2198 | ASJLDT | 5/26/98 | 13:45:03 | 3.8 | 1 | 15.2 | 11.2 | 9.15 | 6.9 | 32.8 | 0.02 | 98.5 | 153 | 376 |
| | | | | | | | | | | | | | | | |
| Conkling Point | 2398 | DTJLAS | 6/8/98 | 13:00:22 | 2.5 | 11 | 0.4 | 10.7 | 15.62 | 7.52 | 38.9 | 0.02 | 108 | 28 | 362 |
| Conkling Point | 2398 | DTJLAS | 6/8/98 | 13:00:22 | 2.5 | 10 | 1.5 | 10.7 | 15.51 | 7.5 | 38.9 | 0.02 | 107.3 | 101 | 363 |
| Conkling Point | 2398 | DTJLAS | 6/8/98 | 13:00:22 | 2.5 | 9 | 3 | 10.6 | 14.84 | 7.43 | 38.5 | 0.02 | 105 | 125 | 365 |
| Conkling Point | 2398 | DTJLAS | 6/8/98 | 13:00:22 | 2.5 | 8 | 4.5 | 10.8 | 13.06 | 7.3 | 38 | 0.02 | 102.6 | 109 | 367 |
| Conkling Point | 2398 | DTJLAS | 6/8/98 | 13:00:22 | 2.5 | 7 | 6 | 10.6 | 12.73 | 7.24 | 37.9 | 0.02 | 100 | 117 | 367 |
| Conkling Point | 2398 | DTJLAS | 6/8/98 | 13:00:22 | 2.5 | 6 | 7.5 | 10.8 | 12.22 | 7.22 | 37.7 | 0.02 | 100.9 | 55 | 366 |
| Conkling Point | 2398 | DTJLAS | 6/8/98 | 13:00:22 | 2.5 | 5 | 9 | 10.7 | 12 | 7.19 | 37 | 0.02 | 99.3 | 132 | 366 |
| Conkling Point | 2398 | DTJLAS | 6/8/98 | 13:00:22 | 2.5 | 4 | 10.5 | 10.5 | 11.79 | 7.13 | 36.7 | 0.02 | 97.4 | 46 | 363 |
| Conkling Point | 2398 | DTJLAS | 6/8/98 | 13:00:22 | 2.5 | 3 | 12 | 10.7 | 10.77 | 7.1 | 35.9 | 0.02 | 96.8 | 130 | 363 |
| Conkling Point | 2398 | DTJLAS | 6/8/98 | 13:00:22 | 2.5 | 2 | 13.5 | 10.3 | 9.94 | 7 | 37.9 | 0.02 | 91.1 | 158 | 362 |
| Conkling Point | 2398 | DTJLAS | 6/8/98 | 13:00:22 | 2.5 | 1 | 15.1 | 9.16 | 8.71 | 6.85 | 42.2 | 0.03 | 78.7 | 242 | 361 |
| | | | | | | | | | | | | | | | |
| Conkling Point | 2598 | DTASBH | 6/22/98 | 12:17:57 | 4.3 | 16 | 0.3 | 10.1 | 19.54 | 7.54 | 42.2 | 0.03 | 109.9 | 28 | 355 |
| Conkling Point | 2598 | DTASBH | 6/22/98 | 12:17:57 | 4.3 | 15 | 1.1 | 10.1 | 19.28 | 7.54 | 42.1 | 0.03 | 109.2 | 100 | 356 |
| Conkling Point | 2598 | DTASBH | 6/22/98 | 12:17:57 | 4.3 | 14 | 2.1 | 10.3 | 18.39 | 7.57 | 41.9 | 0.03 | 109.3 | 57 | 356 |
| Conkling Point | 2598 | DTASBH | 6/22/98 | 12:17:57 | 4.3 | 13 | 3.1 | 10.5 | 17.56 | 7.61 | 41.7 | 0.03 | 109.5 | 135 | 356 |
| Conkling Point | 2598 | DTASBH | 6/22/98 | 12:17:57 | 4.3 | 12 | 4.1 | 10.6 | 16.63 | 7.6 | 42 | 0.03 | 108.7 | 115 | 357 |
| Conkling Point | 2598 | DTASBH | 6/22/98 | 12:17:57 | 4.3 | 11 | 5.1 | 10.8 | 16.09 | 7.61 | 51 | 0.03 | 109.8 | 214 | 358 |
| Conkling Point | 2598 | DTASBH | 6/22/98 | 12:17:57 | 4.3 | 10 | 6.1 | 10.9 | 15.25 | 7.46 | 49.8 | 0.03 | 108.8 | 159 | 362 |
| Conkling Point | 2598 | DTASBH | 6/22/98 | 12:17:57 | 4.3 | 9 | 7.1 | 10.9 | 14.79 | 7.45 | 43.6 | 0.03 | 108.1 | 53 | 360 |
| Conkling Point | 2598 | DTASBH | 6/22/98 | 12:17:57 | 4.3 | 8 | 8.1 | 11 | 14.06 | 7.36 | 42.9 | 0.03 | 106.6 | 108 | 362 |

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|----------------|------|--------|---------|----------|-----|----|------|------|-------|------|------|------|-------|-----|-----|
| Conkling Point | 2598 | DTASBH | 6/22/98 | 12:17:57 | 4.3 | 7 | 9.1 | 11 | 13.81 | 7.31 | 41.7 | 0.03 | 106.2 | 206 | 362 |
| Conkling Point | 2598 | DTASBH | 6/22/98 | 12:17:57 | 4.3 | 6 | 10.1 | 11 | 13.41 | 7.26 | 41.5 | 0.03 | 105.8 | 131 | 362 |
| Conkling Point | 2598 | DTASBH | 6/22/98 | 12:17:57 | 4.3 | 5 | 11.1 | 10.8 | 12.99 | 7.12 | 40 | 0.03 | 102.7 | 114 | 363 |
| Conkling Point | 2598 | DTASBH | 6/22/98 | 12:17:57 | 4.3 | 4 | 12.1 | 10.2 | 12.57 | 6.98 | 37.5 | 0.02 | 95.6 | 153 | 364 |
| Conkling Point | 2598 | DTASBH | 6/22/98 | 12:17:57 | 4.3 | 3 | 13.1 | 10.2 | 12.33 | 6.95 | 38.1 | 0.02 | 95.7 | 110 | 362 |
| Conkling Point | 2598 | DTASBH | 6/22/98 | 12:17:57 | 4.3 | 2 | 14.1 | 9.61 | 11.64 | 6.87 | 37.4 | 0.02 | 88.5 | 227 | 362 |
| Conkling Point | 2598 | DTASBH | 6/22/98 | 12:17:57 | 4.3 | 1 | 15.1 | 8.96 | 11.16 | 6.81 | 37.8 | 0.02 | 81.5 | 207 | 376 |
| | | | | | | | | | | | | | | | |
| Conkling Point | 2798 | DTASBH | 7/7/98 | 12:07:14 | 3.2 | 16 | 0.3 | 10.1 | 24.35 | 8.72 | 51.2 | 0.03 | 120.3 | 56 | 307 |
| Conkling Point | 2798 | DTASBH | 7/7/98 | 12:07:14 | 3.2 | 15 | 1.3 | 9.63 | 20.88 | 7.56 | 50.7 | 0.03 | 107.3 | 108 | 334 |
| Conkling Point | 2798 | DTASBH | 7/7/98 | 12:07:14 | 3.2 | 14 | 2.3 | 9.85 | 19.32 | 7.46 | 50.9 | 0.03 | 106.4 | 115 | 335 |
| Conkling Point | 2798 | DTASBH | 7/7/98 | 12:07:14 | 3.2 | 13 | 3.3 | 10.5 | 18.17 | 7.7 | 49.9 | 0.03 | 111 | 130 | 332 |
| Conkling Point | 2798 | DTASBH | 7/7/98 | 12:07:14 | 3.2 | 12 | 4.3 | 10.6 | 17.57 | 7.81 | 50 | 0.03 | 110.9 | 118 | 328 |
| Conkling Point | 2798 | DTASBH | 7/7/98 | 12:07:14 | 3.2 | 11 | 5.3 | 10.7 | 16.39 | 7.71 | 48.5 | 0.03 | 108.5 | 314 | 331 |
| Conkling Point | 2798 | DTASBH | 7/7/98 | 12:07:14 | 3.2 | 10 | 6.3 | 10.6 | 16.12 | 7.61 | 48.2 | 0.03 | 107.5 | 145 | 332 |
| Conkling Point | 2798 | DTASBH | 7/7/98 | 12:07:14 | 3.2 | 9 | 7.2 | 10.5 | 15.86 | 7.5 | 47.5 | 0.03 | 105.7 | 229 | 332 |
| Conkling Point | 2798 | DTASBH | 7/7/98 | 12:07:14 | 3.2 | 8 | 8.3 | 10.3 | 15.44 | 7.34 | 46.8 | 0.03 | 102.9 | 116 | 333 |
| Conkling Point | 2798 | DTASBH | 7/7/98 | 12:07:14 | 3.2 | 7 | 9.3 | 10.2 | 15.04 | 7.24 | 46.4 | 0.03 | 100.5 | 123 | 333 |
| Conkling Point | 2798 | DTASBH | 7/7/98 | 12:07:14 | 3.2 | 6 | 10.3 | 10.1 | 14.94 | 7.2 | 46.3 | 0.03 | 99.7 | 50 | 333 |
| Conkling Point | 2798 | DTASBH | 7/7/98 | 12:07:14 | 3.2 | 5 | 11.3 | 10.1 | 14.72 | 7.14 | 46.5 | 0.03 | 98.6 | 123 | 332 |
| Conkling Point | 2798 | DTASBH | 7/7/98 | 12:07:14 | 3.2 | 4 | 12.3 | 9.79 | 14.21 | 7.04 | 45.8 | 0.03 | 95.1 | 120 | 332 |
| Conkling Point | 2798 | DTASBH | 7/7/98 | 12:07:14 | 3.2 | 3 | 13.3 | 9.63 | 13.86 | 6.96 | 44.9 | 0.03 | 92.8 | 136 | 330 |
| Conkling Point | 2798 | DTASBH | 7/7/98 | 12:07:14 | 3.2 | 2 | 14.3 | 8.31 | 13.13 | 6.78 | 45 | 0.03 | 78.8 | 116 | 328 |
| Conkling Point | 2798 | DTASBH | 7/7/98 | 12:07:14 | 3.2 | 1 | 15.3 | 7.28 | 11.98 | 6.71 | 45.5 | 0.03 | 67.2 | 211 | 316 |
| | | | | | | | | | | | | | | | |
| Conkling Point | 2998 | ASBH | 7/20/98 | 11:44:42 | 6.3 | 15 | 0.9 | 8.96 | 23.31 | 7.81 | 51.3 | 0.03 | 104.7 | 143 | 354 |
| Conkling Point | 2998 | ASBH | 7/20/98 | 11:44:42 | 6.3 | 14 | 1.9 | 9.12 | 22.92 | 7.92 | 51.4 | 0.03 | 105.8 | 117 | 354 |
| Conkling Point | 2998 | ASBH | 7/20/98 | 11:44:42 | 6.3 | 13 | 2.9 | 9.14 | 22.59 | 7.86 | 51.2 | 0.03 | 105.3 | 112 | 356 |
| Conkling Point | 2998 | ASBH | 7/20/98 | 11:44:42 | 6.3 | 12 | 3.9 | 9.91 | 21.23 | 7.94 | 49.4 | 0.03 | 111.3 | 126 | 355 |
| Conkling Point | 2998 | ASBH | 7/20/98 | 11:44:42 | 6.3 | 11 | 4.9 | 10.2 | 20.55 | 7.99 | 48.2 | 0.03 | 112.5 | 103 | 355 |
| Conkling Point | 2998 | ASBH | 7/20/98 | 11:44:42 | 6.3 | 10 | 5.9 | 10.3 | 19.8 | 7.95 | 47.5 | 0.03 | 112.8 | 118 | 357 |
| Conkling Point | 2998 | ASBH | 7/20/98 | 11:44:42 | 6.3 | 9 | 6.9 | 10.5 | 18.58 | 7.77 | 46.7 | 0.03 | 111.4 | 128 | 360 |
| Conkling Point | 2998 | ASBH | 7/20/98 | 11:44:42 | 6.3 | 8 | 7.9 | 10.4 | 16.93 | 7.48 | 45.5 | 0.03 | 107.4 | 125 | 366 |
| Conkling Point | 2998 | ASBH | 7/20/98 | 11:44:42 | 6.3 | 7 | 8.9 | 10.1 | 16.14 | 7.27 | 44.8 | 0.03 | 102.6 | 132 | 369 |
| Conkling Point | 2998 | ASBH | 7/20/98 | 11:44:42 | 6.3 | 6 | 9.9 | 9.34 | 14.94 | 7 | 44.3 | 0.03 | 92.2 | 132 | 372 |
| Conkling Point | 2998 | ASBH | 7/20/98 | 11:44:42 | 6.3 | 5 | 10.9 | 8.95 | 13.78 | 6.86 | 43.2 | 0.03 | 86.1 | 116 | 373 |
| Conkling Point | 2998 | ASBH | 7/20/98 | 11:44:42 | 6.3 | 4 | 11.9 | 7.93 | 12.54 | 6.72 | 43 | 0.03 | 74.2 | 55 | 373 |
| Conkling Point | 2998 | ASBH | 7/20/98 | 11:44:42 | 6.3 | 3 | 12.9 | 7.84 | 11.88 | 6.7 | 42.5 | 0.03 | 72.3 | 112 | 372 |
| Conkling Point | 2998 | ASBH | 7/20/98 | 11:44:42 | 6.3 | 2 | 13.9 | 6.95 | 10.97 | 6.63 | 43.8 | 0.03 | 62.7 | 132 | 372 |
| Conkling Point | 2998 | ASBH | 7/20/98 | 11:44:42 | 6.3 | 1 | 14.9 | 6.66 | 10.25 | 6.64 | 44.5 | 0.03 | 59.1 | 304 | 369 |
| | | | | | | | | | | | | | | | |
| Conkling Point | 3298 | DBAS | 8/10/98 | 12:10:22 | 9.2 | 16 | 0.3 | 8.29 | 24.51 | 7.53 | 59 | 0.04 | 99 | 30 | 343 |
| Conkling Point | 3298 | DBAS | 8/10/98 | 12:10:22 | 9.2 | 15 | 1 | 8.28 | 24.09 | 7.56 | 59.1 | 0.04 | 98.1 | 35 | 343 |
| Conkling Point | 3298 | DBAS | 8/10/98 | 12:10:22 | 9.2 | 14 | 2.1 | 8.27 | 23.8 | 7.55 | 59.1 | 0.04 | 97.4 | 29 | 345 |

| | | | | | | | | | | | | | | | |
|----------------|------|------|---------|----------|-----|----|------|------|-------|------|------|------|-------|-----|-----|
| Conkling Point | 3298 | DBAS | 8/10/98 | 12:10:22 | 9.2 | 13 | 3.2 | 8.26 | 23.29 | 7.55 | 58.6 | 0.04 | 96.4 | 35 | 346 |
| Conkling Point | 3298 | DBAS | 8/10/98 | 12:10:22 | 9.2 | 12 | 4.3 | 8.44 | 22.84 | 7.49 | 57.1 | 0.04 | 97.7 | 48 | 347 |
| Conkling Point | 3298 | DBAS | 8/10/98 | 12:10:22 | 9.2 | 11 | 5.4 | 9.08 | 22.2 | 7.52 | 55.7 | 0.04 | 103.8 | 35 | 347 |
| Conkling Point | 3298 | DBAS | 8/10/98 | 12:10:22 | 9.2 | 10 | 6.5 | 9.19 | 21.74 | 7.49 | 54.3 | 0.03 | 104.2 | 109 | 348 |
| Conkling Point | 3298 | DBAS | 8/10/98 | 12:10:22 | 9.2 | 9 | 7.4 | 9.46 | 20.91 | 7.44 | 52.3 | 0.03 | 105.5 | 122 | 349 |
| Conkling Point | 3298 | DBAS | 8/10/98 | 12:10:22 | 9.2 | 8 | 8.5 | 9.58 | 20.34 | 7.35 | 51.3 | 0.03 | 105.6 | 44 | 352 |
| Conkling Point | 3298 | DBAS | 8/10/98 | 12:10:22 | 9.2 | 7 | 9.5 | 9.61 | 19.13 | 7.27 | 49.7 | 0.03 | 103.5 | 131 | 353 |
| Conkling Point | 3298 | DBAS | 8/10/98 | 12:10:22 | 9.2 | 6 | 10.5 | 8.5 | 18.27 | 7.04 | 50.3 | 0.03 | 89.9 | 101 | 356 |
| Conkling Point | 3298 | DBAS | 8/10/98 | 12:10:22 | 9.2 | 5 | 11.5 | 9.45 | 17.4 | 7.1 | 49.1 | 0.03 | 98.2 | 100 | 356 |
| Conkling Point | 3298 | DBAS | 8/10/98 | 12:10:22 | 9.2 | 4 | 12.4 | 8.77 | 15.66 | 6.93 | 48.1 | 0.03 | 87.8 | 128 | 358 |
| Conkling Point | 3298 | DBAS | 8/10/98 | 12:10:22 | 9.2 | 3 | 13.2 | 8.29 | 14.08 | 6.81 | 47.2 | 0.03 | 80.3 | 118 | 359 |
| Conkling Point | 3298 | DBAS | 8/10/98 | 12:10:22 | 9.2 | 2 | 14.4 | 5.74 | 12.61 | 6.63 | 49.2 | 0.03 | 53.8 | 120 | 359 |
| Conkling Point | 3298 | DBAS | 8/10/98 | 12:10:22 | 9.2 | 1 | 15.5 | 4.81 | 10.31 | 6.61 | 52 | 0.03 | 42.8 | 253 | 359 |
| Conkling Point | 3498 | ASGL | 8/26/98 | 13:49:11 | 5.3 | 16 | 0.5 | 9.01 | 21.81 | 7.87 | 54.1 | 0.03 | 102.8 | 30 | 362 |
| Conkling Point | 3498 | ASGL | 8/26/98 | 13:49:11 | 5.3 | 15 | 1.5 | 9.01 | 21.72 | 7.84 | 54 | 0.03 | 102.6 | 107 | 365 |
| Conkling Point | 3498 | ASGL | 8/26/98 | 13:49:11 | 5.3 | 14 | 2.5 | 8.99 | 21.76 | 7.86 | 54.1 | 0.03 | 102.4 | 125 | 364 |
| Conkling Point | 3498 | ASGL | 8/26/98 | 13:49:11 | 5.3 | 13 | 3.5 | 8.99 | 21.63 | 7.82 | 53.8 | 0.03 | 102.1 | 110 | 367 |
| Conkling Point | 3498 | ASGL | 8/26/98 | 13:49:11 | 5.3 | 12 | 4.5 | 8.98 | 21.53 | 7.81 | 53.8 | 0.03 | 101.9 | 234 | 368 |
| Conkling Point | 3498 | ASGL | 8/26/98 | 13:49:11 | 5.3 | 11 | 5.5 | 8.83 | 21.46 | 7.71 | 53.6 | 0.03 | 100 | 137 | 372 |
| Conkling Point | 3498 | ASGL | 8/26/98 | 13:49:11 | 5.3 | 10 | 6.5 | 8.76 | 21.44 | 7.59 | 54.5 | 0.03 | 99.2 | 147 | 376 |
| Conkling Point | 3498 | ASGL | 8/26/98 | 13:49:11 | 5.3 | 9 | 7.5 | 8.5 | 21.29 | 7.45 | 54.8 | 0.04 | 95.9 | 138 | 381 |
| Conkling Point | 3498 | ASGL | 8/26/98 | 13:49:11 | 5.3 | 8 | 8.5 | 7.61 | 20.76 | 7.09 | 53.4 | 0.03 | 85.1 | 208 | 391 |
| Conkling Point | 3498 | ASGL | 8/26/98 | 13:49:11 | 5.3 | 7 | 9.5 | 8.61 | 19.68 | 7.03 | 47.9 | 0.03 | 94.1 | 112 | 393 |
| Conkling Point | 3498 | ASGL | 8/26/98 | 13:49:11 | 5.3 | 6 | 10.5 | 8.18 | 18.42 | 6.88 | 45.7 | 0.03 | 87.3 | 221 | 397 |
| Conkling Point | 3498 | ASGL | 8/26/98 | 13:49:11 | 5.3 | 5 | 11.5 | 8.34 | 16.63 | 6.84 | 44.1 | 0.03 | 85.7 | 316 | 398 |
| Conkling Point | 3498 | ASGL | 8/26/98 | 13:49:11 | 5.3 | 4 | 12.5 | 6.9 | 14.91 | 6.63 | 44.2 | 0.03 | 68.3 | 203 | 401 |
| Conkling Point | 3498 | ASGL | 8/26/98 | 13:49:11 | 5.3 | 3 | 13.5 | 6.86 | 13.55 | 6.54 | 43.8 | 0.03 | 66 | 154 | 401 |
| Conkling Point | 3498 | ASGL | 8/26/98 | 13:49:11 | 5.3 | 2 | 14.5 | 4.84 | 12.85 | 6.44 | 45.8 | 0.03 | 45.8 | 235 | 401 |
| Conkling Point | 3498 | ASGL | 8/26/98 | 13:49:11 | 5.3 | 1 | 15.4 | 3.48 | 11.23 | 6.36 | 49.2 | 0.03 | 31.8 | 434 | 404 |
| Conkling Point | 3598 | DTAS | 9/3/98 | 13:43:10 | 5.7 | 16 | 0.4 | 9.04 | 22.58 | 7.83 | 59.2 | 0.04 | 104.8 | 33 | 290 |
| Conkling Point | 3598 | DTAS | 9/3/98 | 13:43:10 | 5.7 | 15 | 1.6 | 9.11 | 21.56 | 7.86 | 59.7 | 0.04 | 103.5 | 52 | 289 |
| Conkling Point | 3598 | DTAS | 9/3/98 | 13:43:10 | 5.7 | 14 | 2.6 | 9.07 | 21.42 | 7.78 | 58.9 | 0.04 | 102.8 | 41 | 292 |
| Conkling Point | 3598 | DTAS | 9/3/98 | 13:43:10 | 5.7 | 13 | 3.6 | 9.15 | 21.28 | 7.8 | 58.7 | 0.04 | 103.5 | 42 | 292 |
| Conkling Point | 3598 | DTAS | 9/3/98 | 13:43:10 | 5.7 | 12 | 4.6 | 9.18 | 21.14 | 7.75 | 58.8 | 0.04 | 103.5 | 40 | 294 |
| Conkling Point | 3598 | DTAS | 9/3/98 | 13:43:10 | 5.7 | 11 | 5.6 | 9.09 | 20.97 | 7.65 | 58.6 | 0.04 | 102.2 | 37 | 298 |
| Conkling Point | 3598 | DTAS | 9/3/98 | 13:43:10 | 5.7 | 10 | 6.6 | 9.08 | 20.97 | 7.55 | 58.5 | 0.04 | 102 | 54 | 303 |
| Conkling Point | 3598 | DTAS | 9/3/98 | 13:43:10 | 5.7 | 9 | 7.6 | 8.87 | 20.48 | 7.26 | 56.9 | 0.04 | 98.7 | 101 | 312 |
| Conkling Point | 3598 | DTAS | 9/3/98 | 13:43:10 | 5.7 | 8 | 8.6 | 8.6 | 19.66 | 6.96 | 55.2 | 0.04 | 94.2 | 44 | 321 |
| Conkling Point | 3598 | DTAS | 9/3/98 | 13:43:10 | 5.7 | 7 | 9.6 | 7.21 | 17.76 | 6.74 | 49.4 | 0.03 | 76 | 36 | 326 |
| Conkling Point | 3598 | DTAS | 9/3/98 | 13:43:10 | 5.7 | 6 | 10.6 | 7.06 | 16.14 | 6.7 | 47.4 | 0.03 | 72 | 100 | 326 |
| Conkling Point | 3598 | DTAS | 9/3/98 | 13:43:10 | 5.7 | 5 | 11.6 | 6.4 | 14.56 | 6.62 | 47.8 | 0.03 | 63 | 100 | 328 |
| Conkling Point | 3598 | DTAS | 9/3/98 | 13:43:10 | 5.7 | 4 | 12.6 | 5.45 | 13.25 | 6.54 | 49.1 | 0.03 | 52.1 | 113 | 327 |

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|----------------|------|--------|----------|----------|-----|----|------|------|-------|------|------|------|------|-----|-----|
| Conkling Point | 3598 | DTAS | 9/3/98 | 13:43:10 | 5.7 | 3 | 13.6 | 4.68 | 12.77 | 6.51 | 49.4 | 0.03 | 44.3 | 35 | 323 |
| Conkling Point | 3598 | DTAS | 9/3/98 | 13:43:10 | 5.7 | 2 | 14.6 | 5.79 | 11.47 | 6.52 | 48.2 | 0.03 | 53.2 | 123 | 320 |
| Conkling Point | 3598 | DTAS | 9/3/98 | 13:43:10 | 5.7 | 1 | 15.6 | 2.78 | 10.69 | 6.49 | 53.3 | 0.03 | 25.1 | 210 | 313 |
| Conkling Point | 4098 | KBDB | 10/9/98 | 11:50:00 | 4.5 | 16 | 0.3 | 9.07 | 15.24 | 7.42 | 58.7 | 0.04 | 90.2 | 50 | 325 |
| Conkling Point | 4098 | KBDB | 10/9/98 | 11:50:00 | 4.5 | 15 | 0.7 | 9.07 | 15.23 | 7.4 | 58.6 | 0.04 | 90.2 | 43 | 326 |
| Conkling Point | 4098 | KBDB | 10/9/98 | 11:50:00 | 4.5 | 14 | 1.7 | 9.05 | 15.24 | 7.38 | 58.5 | 0.04 | 90 | 48 | 326 |
| Conkling Point | 4098 | KBDB | 10/9/98 | 11:50:00 | 4.5 | 13 | 2.7 | 9.02 | 15.22 | 7.38 | 58.6 | 0.04 | 89.7 | 58 | 326 |
| Conkling Point | 4098 | KBDB | 10/9/98 | 11:50:00 | 4.5 | 12 | 3.7 | 8.96 | 15.18 | 7.35 | 58.8 | 0.04 | 89 | 58 | 326 |
| Conkling Point | 4098 | KBDB | 10/9/98 | 11:50:00 | 4.5 | 11 | 4.7 | 8.91 | 15.19 | 7.35 | 58.5 | 0.04 | 88.6 | 54 | 326 |
| Conkling Point | 4098 | KBDB | 10/9/98 | 11:50:00 | 4.5 | 10 | 5.8 | 8.93 | 15.17 | 7.34 | 58.5 | 0.04 | 88.7 | 56 | 326 |
| Conkling Point | 4098 | KBDB | 10/9/98 | 11:50:00 | 4.5 | 9 | 6.6 | 8.96 | 15.16 | 7.34 | 59 | 0.04 | 89 | 134 | 326 |
| Conkling Point | 4098 | KBDB | 10/9/98 | 11:50:00 | 4.5 | 8 | 7.7 | 8.98 | 15.16 | 7.35 | 58.3 | 0.04 | 89.2 | 114 | 324 |
| Conkling Point | 4098 | KBDB | 10/9/98 | 11:50:00 | 4.5 | 7 | 8.7 | 9 | 15.14 | 7.35 | 58.4 | 0.04 | 89.3 | 142 | 323 |
| Conkling Point | 4098 | KBDB | 10/9/98 | 11:50:00 | 4.5 | 6 | 9.7 | 9.08 | 15.14 | 7.36 | 59.2 | 0.04 | 90.1 | 123 | 321 |
| Conkling Point | 4098 | KBDB | 10/9/98 | 11:50:00 | 4.5 | 5 | 10.7 | 9.15 | 15.04 | 7.36 | 58.6 | 0.04 | 90.7 | 135 | 321 |
| Conkling Point | 4098 | KBDB | 10/9/98 | 11:50:00 | 4.5 | 4 | 11.7 | 9.1 | 14.91 | 7.33 | 58.6 | 0.04 | 89.8 | 109 | 320 |
| Conkling Point | 4098 | KBDB | 10/9/98 | 11:50:00 | 4.5 | 3 | 12.7 | 9.12 | 14.88 | 7.31 | 58.3 | 0.04 | 90 | 125 | 319 |
| Conkling Point | 4098 | KBDB | 10/9/98 | 11:50:00 | 4.5 | 2 | 13.7 | 9.2 | 14.84 | 7.29 | 58.6 | 0.04 | 90.7 | 156 | 318 |
| Conkling Point | 4098 | KBDB | 10/9/98 | 11:50:00 | 4.5 | 1 | 14.7 | 8.64 | 14.59 | 7.13 | 59.7 | 0.04 | 84.7 | 344 | 318 |
| Conkling Point | 4298 | DTASJB | 10/19/98 | 11:49:36 | 4.8 | 15 | 0.5 | 9.13 | 12.92 | 7.39 | 58.6 | 0.04 | 85.5 | 115 | 343 |
| Conkling Point | 4298 | DTASJB | 10/19/98 | 11:49:36 | 4.8 | 14 | 1.5 | 9.14 | 12.81 | 7.41 | 58.6 | 0.04 | 85.4 | 47 | 342 |
| Conkling Point | 4298 | DTASJB | 10/19/98 | 11:49:36 | 4.8 | 13 | 2.5 | 9.15 | 12.71 | 7.38 | 58.7 | 0.04 | 85.3 | 53 | 343 |
| Conkling Point | 4298 | DTASJB | 10/19/98 | 11:49:36 | 4.8 | 12 | 3.5 | 9.13 | 12.63 | 7.34 | 58.7 | 0.04 | 84.9 | 114 | 346 |
| Conkling Point | 4298 | DTASJB | 10/19/98 | 11:49:36 | 4.8 | 11 | 4.5 | 9.07 | 12.58 | 7.33 | 58.8 | 0.04 | 84.3 | 125 | 346 |
| Conkling Point | 4298 | DTASJB | 10/19/98 | 11:49:36 | 4.8 | 10 | 5.5 | 9.01 | 12.56 | 7.32 | 58.3 | 0.04 | 83.7 | 41 | 345 |
| Conkling Point | 4298 | DTASJB | 10/19/98 | 11:49:36 | 4.8 | 9 | 6.5 | 9.01 | 12.55 | 7.31 | 58.4 | 0.04 | 83.7 | 52 | 345 |
| Conkling Point | 4298 | DTASJB | 10/19/98 | 11:49:36 | 4.8 | 8 | 7.5 | 8.98 | 12.51 | 7.32 | 58.7 | 0.04 | 83.3 | 126 | 343 |
| Conkling Point | 4298 | DTASJB | 10/19/98 | 11:49:36 | 4.8 | 7 | 8.5 | 9.05 | 12.46 | 7.33 | 58.3 | 0.04 | 83.8 | 39 | 343 |
| Conkling Point | 4298 | DTASJB | 10/19/98 | 11:49:36 | 4.8 | 6 | 9.5 | 9.06 | 12.4 | 7.33 | 58.7 | 0.04 | 83.8 | 156 | 343 |
| Conkling Point | 4298 | DTASJB | 10/19/98 | 11:49:36 | 4.8 | 5 | 10.5 | 9.11 | 12.27 | 7.34 | 58.8 | 0.04 | 84.1 | 110 | 341 |
| Conkling Point | 4298 | DTASJB | 10/19/98 | 11:49:36 | 4.8 | 4 | 11.5 | 9.17 | 12.17 | 7.36 | 58.7 | 0.04 | 84.4 | 58 | 339 |
| Conkling Point | 4298 | DTASJB | 10/19/98 | 11:49:36 | 4.8 | 3 | 12.5 | 9.49 | 11.91 | 7.39 | 58.4 | 0.04 | 86.8 | 57 | 338 |
| Conkling Point | 4298 | DTASJB | 10/19/98 | 11:49:36 | 4.8 | 2 | 13.5 | 9.51 | 11.46 | 7.32 | 59 | 0.04 | 86.2 | 43 | 339 |
| Conkling Point | 4298 | DTASJB | 10/19/98 | 11:49:36 | 4.8 | 1 | 14.5 | 9.26 | 11.35 | 7.28 | 59 | 0.04 | 83.6 | 645 | 340 |
| Conkling Point | 4698 | KBAS | 11/17/98 | 12:18:00 | 4.1 | 15 | 0.3 | 8.23 | 8.32 | 7.16 | 54.7 | 0.04 | 70.7 | 44 | 327 |
| Conkling Point | 4698 | KBAS | 11/17/98 | 12:18:00 | 4.1 | 14 | 1 | 8.21 | 8.33 | 7.15 | 54.9 | 0.04 | 70.6 | 46 | 328 |
| Conkling Point | 4698 | KBAS | 11/17/98 | 12:18:00 | 4.1 | 13 | 2 | 8.21 | 8.33 | 7.17 | 54.7 | 0.04 | 70.6 | 48 | 326 |
| Conkling Point | 4698 | KBAS | 11/17/98 | 12:18:00 | 4.1 | 12 | 3 | 8.21 | 8.32 | 7.11 | 54.5 | 0.03 | 70.5 | 57 | 329 |
| Conkling Point | 4698 | KBAS | 11/17/98 | 12:18:00 | 4.1 | 11 | 4 | 8.19 | 8.32 | 7.12 | 54.6 | 0.03 | 70.4 | 101 | 4 |
| Conkling Point | 4698 | KBAS | 11/17/98 | 12:18:00 | 4.1 | 10 | 5 | 8.15 | 8.3 | 7.09 | 54.7 | 0.04 | 70 | 41 | 329 |
| Conkling Point | 4698 | KBAS | 11/17/98 | 12:18:00 | 4.1 | 9 | 6 | 8.11 | 8.29 | 7.09 | 54.4 | 0.03 | 71.9 | 8 | 328 |

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|----------------|------|------|----------|----------|-----|---|------|------|------|------|------|------|------|-----|-----|
| Conkling Point | 4698 | KBAS | 11/17/98 | 12:18:00 | 4.1 | 8 | 7 | 8.07 | 8.22 | 7.06 | 54.2 | 0.03 | 69.2 | 51 | 328 |
| Conkling Point | 4698 | KBAS | 11/17/98 | 12:18:00 | 4.1 | 7 | 8 | 7.86 | 8.11 | 7.01 | 54.1 | 0.03 | 67.2 | 120 | 327 |
| Conkling Point | 4698 | KBAS | 11/17/98 | 12:18:00 | 4.1 | 6 | 9 | 7.48 | 8.04 | 6.96 | 54.4 | 0.03 | 63.8 | 116 | 326 |
| Conkling Point | 4698 | KBAS | 11/17/98 | 12:18:00 | 4.1 | 5 | 10 | 7.61 | 7.99 | 7 | 54 | 0.03 | 64.9 | 112 | 324 |
| Conkling Point | 4698 | KBAS | 11/17/98 | 12:18:00 | 4.1 | 4 | 10.9 | 7.97 | 7.88 | 7.05 | 54.5 | 0.03 | 67.8 | 123 | 321 |
| Conkling Point | 4698 | KBAS | 11/17/98 | 12:18:00 | 4.1 | 3 | 12 | 8.29 | 7.76 | 0 | 54.1 | 0.03 | 70.3 | 149 | 319 |
| Conkling Point | 4698 | KBAS | 11/17/98 | 12:18:00 | 4.1 | 2 | 13 | 8.9 | 6.73 | 7.15 | 54.8 | 0.04 | 73.6 | 44 | 316 |
| Conkling Point | 4698 | KBAS | 11/17/98 | 12:18:00 | 4.1 | 1 | 14 | 8.9 | 6.73 | 7.16 | 54.5 | 0.03 | 73.6 | 555 | 315 |

| Location | Phase | Samplers | Date | Time | Secchi (m) | Sequence | Depth (m) | Dissolved Oxygen (mg/L) | Temperature (C) | pH | Conductivity (µs/cm) | TDS | Saturated Dissolved Oxygen | Stabilization Time | Redox |
|-------------|-------|----------|---------|----------|------------|----------|-----------|-------------------------|-----------------|------|----------------------|------|----------------------------|--------------------|-------|
| Hidden Lake | 1398 | DBRP | 4/3/98 | 10:57:54 | 2 | 10 | 0.3 | 12.2 | 7.79 | 7.06 | 37.8 | 0.02 | 103.2 | 43 | 389 |
| Hidden Lake | 1398 | DBRP | 4/3/98 | 10:57:54 | 2 | 9 | 0.3 | 12.2 | 7.79 | 7.04 | 37.8 | 0.02 | 103.2 | 105 | 390 |
| Hidden Lake | 1398 | DBRP | 4/3/98 | 10:57:54 | 2 | 8 | 1 | 12.4 | 6.69 | 7.08 | 37.7 | 0.02 | 101.6 | 124 | 388 |
| Hidden Lake | 1398 | DBRP | 4/3/98 | 10:57:54 | 2 | 7 | 2 | 12.5 | 6.26 | 7.08 | 37.9 | 0.02 | 101.2 | 46 | 387 |
| Hidden Lake | 1398 | DBRP | 4/3/98 | 10:57:54 | 2 | 6 | 3 | 12.4 | 6.18 | 7.04 | 37.6 | 0.02 | 100.9 | 114 | 389 |
| Hidden Lake | 1398 | DBRP | 4/3/98 | 10:57:54 | 2 | 5 | 4 | 12.4 | 6.15 | 7 | 37.9 | 0.02 | 100.7 | 143 | 390 |
| Hidden Lake | 1398 | DBRP | 4/3/98 | 10:57:54 | 2 | 4 | 5 | 12.5 | 6.1 | 6.94 | 37.7 | 0.02 | 100.7 | 144 | 391 |
| Hidden Lake | 1398 | DBRP | 4/3/98 | 10:57:54 | 2 | 3 | 6 | 12.5 | 6.03 | 6.96 | 38 | 0.02 | 100.5 | 134 | 389 |
| Hidden Lake | 1398 | DBRP | 4/3/98 | 10:57:54 | 2 | 2 | 7 | 12.5 | 5.98 | 6.91 | 37.9 | 0.02 | 100.4 | 137 | 389 |
| Hidden Lake | 1398 | DBRP | 4/3/98 | 10:57:54 | 2 | 1 | 7.9 | 12.2 | 6.22 | 6.92 | 37.6 | 0.02 | 99 | 400 | 387 |
| Hidden Lake | 1698 | DBASRP | 4/21/98 | 13:37:37 | 2.2 | 9 | 0.3 | 12 | 10.09 | 7.15 | 41.9 | 0.03 | 106.2 | 121 | 398 |
| Hidden Lake | 1698 | DBASRP | 4/21/98 | 13:37:37 | 2.2 | 8 | 1.3 | 11.9 | 9.69 | 7.25 | 41.7 | 0.03 | 104.5 | 207 | 394 |
| Hidden Lake | 1698 | DBASRP | 4/21/98 | 13:37:37 | 2.2 | 7 | 2.3 | 12.1 | 8.89 | 7.18 | 41.5 | 0.03 | 103.9 | 46 | 394 |
| Hidden Lake | 1698 | DBASRP | 4/21/98 | 13:37:37 | 2.2 | 6 | 3.3 | 12 | 8.68 | 7.15 | 41.5 | 0.03 | 102.7 | 111 | 394 |
| Hidden Lake | 1698 | DBASRP | 4/21/98 | 13:37:37 | 2.2 | 5 | 4.3 | 11.9 | 8.4 | 7.11 | 41.4 | 0.03 | 101.3 | 132 | 393 |
| Hidden Lake | 1698 | DBASRP | 4/21/98 | 13:37:37 | 2.2 | 4 | 5.4 | 11.9 | 8 | 7.07 | 40.9 | 0.03 | 100 | 121 | 391 |
| Hidden Lake | 1698 | DBASRP | 4/21/98 | 13:37:37 | 2.2 | 3 | 6.4 | 11.7 | 7.76 | 6.99 | 41 | 0.03 | 97.5 | 141 | 389 |
| Hidden Lake | 1698 | DBASRP | 4/21/98 | 13:37:37 | 2.2 | 2 | 7.4 | 10.3 | 7.36 | 6.79 | 41.3 | 0.03 | 85.1 | 55 | 388 |
| Hidden Lake | 1698 | DBASRP | 4/21/98 | 13:37:37 | 2.2 | 1 | 7.3 | 10.6 | 7.48 | 6.84 | 41.1 | 0.03 | 87.8 | 216 | 391 |
| Hidden Lake | 2198 | ASJLDT | 5/26/98 | 14:05:25 | 2.1 | 9 | 0.3 | 11.1 | 9.51 | 6.95 | 32.5 | 0.02 | 98.4 | 40 | 339 |
| Hidden Lake | 2198 | ASJLDT | 5/26/98 | 14:05:25 | 2.1 | 8 | 1.3 | 11.1 | 9.42 | 6.92 | 32.8 | 0.02 | 98.2 | 36 | 337 |
| Hidden Lake | 2198 | ASJLDT | 5/26/98 | 14:05:25 | 2.1 | 7 | 2.3 | 11.1 | 9.33 | 6.96 | 32.9 | 0.02 | 98.1 | 43 | 331 |
| Hidden Lake | 2198 | ASJLDT | 5/26/98 | 14:05:25 | 2.1 | 6 | 3.3 | 11.2 | 9.3 | 6.94 | 33.1 | 0.02 | 98.1 | 35 | 328 |
| Hidden Lake | 2198 | ASJLDT | 5/26/98 | 14:05:25 | 2.1 | 5 | 4.3 | 11.1 | 9.28 | 6.86 | 33.1 | 0.02 | 97.8 | 39 | 328 |
| Hidden Lake | 2198 | ASJLDT | 5/26/98 | 14:05:25 | 2.1 | 4 | 5.3 | 11.1 | 9.25 | 6.96 | 33 | 0.02 | 97.4 | 39 | 316 |
| Hidden Lake | 2198 | ASJLDT | 5/26/98 | 14:05:25 | 2.1 | 3 | 6.3 | 11.1 | 9.27 | 6.81 | 32.9 | 0.02 | 97.5 | 37 | 318 |
| Hidden Lake | 2198 | ASJLDT | 5/26/98 | 14:05:25 | 2.1 | 2 | 7.3 | 11.1 | 9.25 | 6.95 | 32.8 | 0.02 | 97.3 | 37 | 309 |
| Hidden Lake | 2198 | ASJLDT | 5/26/98 | 14:05:25 | 2.1 | 1 | 8.3 | 11.1 | 9.22 | 6.95 | 32.8 | 0.02 | 97.1 | 107 | 318 |
| Hidden Lake | 2398 | DTJLAS | 6/8/98 | 13:26:09 | 2.4 | 11 | 0.4 | 11 | 15.62 | 7.51 | 38.7 | 0.02 | 110.5 | 29 | 352 |
| Hidden Lake | 2398 | DTJLAS | 6/8/98 | 13:26:09 | 2.4 | 10 | 1.2 | 11.1 | 14.27 | 7.47 | 38.6 | 0.02 | 108.4 | 44 | 355 |

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|-------------|------|--------|---------|----------|-----|----|-----|------|-------|------|------|------|-------|-----|-----|
| Hidden Lake | 2398 | DTJLAS | 6/8/98 | 13:26:09 | 2.4 | 9 | 2 | 11.1 | 13.89 | 7.45 | 38.2 | 0.02 | 107.4 | 103 | 355 |
| Hidden Lake | 2398 | DTJLAS | 6/8/98 | 13:26:09 | 2.4 | 8 | 2.7 | 11 | 13.51 | 7.34 | 38.2 | 0.02 | 105.1 | 108 | 357 |
| Hidden Lake | 2398 | DTJLAS | 6/8/98 | 13:26:09 | 2.4 | 7 | 3.5 | 11 | 12.57 | 7.22 | 36.7 | 0.02 | 103.6 | 103 | 358 |
| Hidden Lake | 2398 | DTJLAS | 6/8/98 | 13:26:09 | 2.4 | 6 | 4.2 | 10.6 | 12.11 | 7.11 | 36.3 | 0.02 | 98.2 | 59 | 359 |
| Hidden Lake | 2398 | DTJLAS | 6/8/98 | 13:26:09 | 2.4 | 5 | 5 | 10.4 | 11.85 | 7.02 | 36.3 | 0.02 | 95.9 | 39 | 359 |
| Hidden Lake | 2398 | DTJLAS | 6/8/98 | 13:26:09 | 2.4 | 4 | 5.7 | 9.68 | 11.46 | 6.94 | 36.4 | 0.02 | 88.8 | 129 | 359 |
| Hidden Lake | 2398 | DTJLAS | 6/8/98 | 13:26:09 | 2.4 | 3 | 6.5 | 9.13 | 10.85 | 6.87 | 36.5 | 0.02 | 82.5 | 130 | 357 |
| Hidden Lake | 2398 | DTJLAS | 6/8/98 | 13:26:09 | 2.4 | 2 | 7.2 | 8.76 | 10.62 | 6.83 | 36.3 | 0.02 | 78.7 | 122 | 353 |
| Hidden Lake | 2398 | DTJLAS | 6/8/98 | 13:26:09 | 2.4 | 1 | 8 | 7.97 | 10.21 | 6.77 | 37 | 0.02 | 71 | 233 | 347 |
| Hidden Lake | | | | | | | | | | | | | | | |
| Hidden Lake | 2598 | DTASBH | 6/22/98 | 12:17:57 | 3.2 | 10 | 0.3 | 10.1 | 19.32 | 7.68 | 40.6 | 0.03 | 110 | 36 | 336 |
| Hidden Lake | 2598 | DTASBH | 6/22/98 | 12:17:57 | 3.2 | 9 | 1.2 | 10.2 | 18.75 | 7.64 | 40.7 | 0.03 | 109.2 | 112 | 338 |
| Hidden Lake | 2598 | DTASBH | 6/22/98 | 12:17:57 | 3.2 | 8 | 2 | 10.2 | 18.29 | 7.6 | 40.8 | 0.03 | 108.4 | 105 | 339 |
| Hidden Lake | 2598 | DTASBH | 6/22/98 | 12:17:57 | 3.2 | 7 | 2.7 | 10.2 | 17.41 | 7.53 | 40 | 0.03 | 106.8 | 117 | 340 |
| Hidden Lake | 2598 | DTASBH | 6/22/98 | 12:17:57 | 3.2 | 6 | 3.5 | 10.2 | 16.31 | 7.34 | 39.5 | 0.03 | 104.3 | 156 | 344 |
| Hidden Lake | 2598 | DTASBH | 6/22/98 | 12:17:57 | 3.2 | 5 | 4.2 | 10.6 | | 7.15 | 37.2 | 0.02 | 105.9 | 135 | 348 |
| Hidden Lake | 2598 | DTASBH | 6/22/98 | 12:17:57 | 3.2 | 4 | 5 | 8.81 | 12.82 | 6.81 | 35.9 | 0.02 | 83.3 | 143 | 354 |
| Hidden Lake | 2598 | DTASBH | 6/22/98 | 12:17:57 | 3.2 | 3 | 5.7 | 7.14 | 12.03 | 6.6 | 36.3 | 0.02 | 66.3 | 146 | 356 |
| Hidden Lake | 2598 | DTASBH | 6/22/98 | 12:17:57 | 3.2 | 2 | 6.5 | 4.53 | 11.28 | 6.47 | 37.7 | 0.02 | 41.3 | 236 | 354 |
| Hidden Lake | 2598 | DTASBH | 6/22/98 | 12:17:57 | 3.2 | 1 | 7.2 | 4.15 | 11.18 | 6.45 | 38 | 0.02 | 37.8 | 506 | 344 |
| Hidden Lake | | | | | | | | | | | | | | | |
| Hidden Lake | 2798 | DTASBH | 7/7/98 | 11:36:34 | 4.6 | 11 | 0.4 | 9.9 | 24.13 | 8.46 | 49.2 | 0.03 | 117.3 | 151 | 320 |
| Hidden Lake | 2798 | DTASBH | 7/7/98 | 11:36:34 | 4.6 | 10 | 1 | 9.91 | 23.67 | 8.48 | 49.2 | 0.03 | 116.4 | 139 | 322 |
| Hidden Lake | 2798 | DTASBH | 7/7/98 | 11:36:34 | 4.6 | 9 | 1.7 | 10.2 | 22.84 | 8.52 | 48.8 | 0.03 | 117.6 | 117 | 323 |
| Hidden Lake | 2798 | DTASBH | 7/7/98 | 11:36:34 | 4.6 | 8 | 2.5 | 10.9 | 21.28 | 8.48 | 47.9 | 0.03 | 122.8 | 110 | 326 |
| Hidden Lake | 2798 | DTASBH | 7/7/98 | 11:36:34 | 4.6 | 7 | 3.2 | 11.1 | 19.38 | 8.19 | 45.9 | 0.03 | 119.5 | 141 | 334 |
| Hidden Lake | 2798 | DTASBH | 7/7/98 | 11:36:34 | 4.6 | 6 | 4 | 10.7 | 17.54 | 7.58 | 44.7 | 0.03 | 111.6 | 111 | 349 |
| Hidden Lake | 2798 | DTASBH | 7/7/98 | 11:36:34 | 4.6 | 5 | 4.7 | 10.8 | 15.86 | 7.19 | 40.8 | 0.03 | 108.3 | 39 | 353 |
| Hidden Lake | 2798 | DTASBH | 7/7/98 | 11:36:34 | 4.6 | 4 | 5.5 | 8.58 | 14.59 | 6.79 | 39.9 | 0.03 | 84 | 112 | 359 |
| Hidden Lake | 2798 | DTASBH | 7/7/98 | 11:36:34 | 4.6 | 3 | 6.2 | 6.08 | 13.13 | 6.52 | 41.1 | 0.03 | 57.6 | 109 | 361 |
| Hidden Lake | 2798 | DTASBH | 7/7/98 | 11:36:34 | 4.6 | 2 | 7 | 4.01 | 12.46 | 6.46 | 42.2 | 0.03 | 37.5 | 121 | 359 |
| Hidden Lake | 2798 | DTASBH | 7/7/98 | 11:36:34 | 4.6 | 1 | 7.6 | 2.9 | 12.33 | 6.45 | 45.9 | 0.03 | 27 | 320 | 358 |
| Hidden Lake | | | | | | | | | | | | | | | |
| Hidden Lake | 2998 | ASBH | 7/21/98 | 9:51:57 | 6.8 | 9 | 0.4 | 9.31 | 24.51 | 8.39 | 49.4 | 0.03 | 111.2 | 123 | 258 |
| Hidden Lake | 2998 | ASBH | 7/21/98 | 9:51:57 | 6.8 | 8 | 1.4 | 9.16 | 24.27 | 8.31 | 49.3 | 0.03 | 109 | 122 | 255 |
| Hidden Lake | 2998 | ASBH | 7/21/98 | 9:51:57 | 6.8 | 7 | 2.4 | 9.23 | 23.89 | 8.28 | 49.4 | 0.03 | 109 | 138 | 250 |
| Hidden Lake | 2998 | ASBH | 7/21/98 | 9:51:57 | 6.8 | 6 | 3.4 | 9.19 | 23.84 | 8.18 | 49.2 | 0.03 | 108.4 | 158 | 245 |
| Hidden Lake | 2998 | ASBH | 7/21/98 | 9:51:57 | 6.8 | 5 | 4.4 | 10.9 | 19.8 | 7.47 | 42.1 | 0.03 | 118.8 | 111 | 259 |
| Hidden Lake | 2998 | ASBH | 7/21/98 | 9:51:57 | 6.8 | 4 | 5.4 | 11.4 | 17.3 | 7.21 | 40.4 | 0.03 | 117.9 | 133 | 259 |
| Hidden Lake | 2998 | ASBH | 7/21/98 | 9:51:57 | 6.8 | 3 | 6.4 | 7.73 | 14.94 | 6.66 | 42.1 | 0.03 | 76.3 | 136 | 256 |
| Hidden Lake | 2998 | ASBH | 7/21/98 | 9:51:57 | 6.8 | 2 | 7.4 | 3.6 | 13.65 | 6.46 | 44.2 | 0.03 | 34.6 | 133 | 222 |
| Hidden Lake | 2998 | ASBH | 7/21/98 | 9:51:57 | 6.8 | 1 | 8.4 | 0.25 | 13.27 | 6.47 | 57.6 | 0.04 | 2.3 | 202 | 168 |
| Hidden Lake | | | | | | | | | | | | | | | |
| Hidden Lake | 3298 | DBAS | 8/11/98 | 13:00:48 | 5.6 | 13 | 0.3 | 9.19 | 25.06 | 8.36 | 53.4 | 0.03 | 110.8 | 50 | 253 |
| Hidden Lake | 3298 | DBAS | 8/11/98 | 13:00:48 | 5.6 | 12 | 0.8 | 9.27 | 24.79 | 8.4 | 53.3 | 0.03 | 111.2 | 131 | 250 |

| | | | | | | | | | | | | | | | |
|-------------|------|------|---------|----------|-----|----|-----|------|-------|------|-------|------|-------|-----|-----|
| Hidden Lake | 3298 | DBAS | 8/11/98 | 13:00:48 | 5.6 | 11 | 1.4 | 9.34 | 24.66 | 8.42 | 53.2 | 0.03 | 111.8 | 50 | 248 |
| Hidden Lake | 3298 | DBAS | 8/11/98 | 13:00:48 | 5.6 | 10 | 2 | 9.4 | 24.49 | 8.46 | 53.3 | 0.03 | 112.2 | 44 | 244 |
| Hidden Lake | 3298 | DBAS | 8/11/98 | 13:00:48 | 5.6 | 9 | 2.6 | 9.49 | 24.42 | 8.45 | 53.4 | 0.03 | 113.1 | 132 | 243 |
| Hidden Lake | 3298 | DBAS | 8/11/98 | 13:00:48 | 5.6 | 8 | 3.2 | 9.37 | 24.13 | 8.39 | 53.1 | 0.03 | 111 | 133 | 237 |
| Hidden Lake | 3298 | DBAS | 8/11/98 | 13:00:48 | 5.6 | 7 | 3.9 | 9.61 | 24.02 | 8.5 | 53.8 | 0.03 | 113.7 | 111 | 228 |
| Hidden Lake | 3298 | DBAS | 8/11/98 | 13:00:48 | 5.6 | 6 | 4.6 | 10.5 | 23.35 | 8.45 | 51.9 | 0.03 | 122.9 | 157 | 222 |
| Hidden Lake | 3298 | DBAS | 8/11/98 | 13:00:48 | 5.6 | 5 | 5.3 | 13.3 | 21.42 | 8.52 | 44.9 | 0.03 | 149.5 | 132 | 202 |
| Hidden Lake | 3298 | DBAS | 8/11/98 | 13:00:48 | 5.6 | 4 | 6 | 13.2 | 19.3 | 8.42 | 48.7 | 0.03 | 142.7 | 104 | 160 |
| Hidden Lake | 3298 | DBAS | 8/11/98 | 13:00:48 | 5.6 | 3 | 6.6 | 0.21 | 16.81 | 6.51 | 56 | 0.04 | 2.1 | 111 | 163 |
| Hidden Lake | 3298 | DBAS | 8/11/98 | 13:00:48 | 5.6 | 2 | 7.1 | 0.19 | 15.35 | 6.55 | 56.7 | 0.04 | 1.9 | 130 | 134 |
| Hidden Lake | 3298 | DBAS | 8/11/98 | 13:00:48 | 5.6 | 1 | 7.7 | 0.23 | 14.04 | 6.65 | 76.9 | 0.05 | 2.2 | 323 | 99 |
| | | | | | | | | | | | | | | | |
| Hidden Lake | 3498 | ASGL | 8/26/98 | 11:45:08 | 3.8 | 12 | 0.3 | 9.41 | 22.01 | 8.34 | 53.3 | 0.03 | 107.7 | 141 | 231 |
| Hidden Lake | 3498 | ASGL | 8/26/98 | 11:45:08 | 3.8 | 11 | 1 | 9.43 | 21.97 | 8.32 | 53.3 | 0.03 | 107.8 | 129 | 230 |
| Hidden Lake | 3498 | ASGL | 8/26/98 | 11:45:08 | 3.8 | 10 | 1.7 | 9.43 | 21.85 | 8.28 | 53.3 | 0.03 | 107.6 | 117 | 229 |
| Hidden Lake | 3498 | ASGL | 8/26/98 | 11:45:08 | 3.8 | 9 | 2.5 | 9.42 | 21.62 | 8.29 | 53.3 | 0.03 | 107 | 112 | 223 |
| Hidden Lake | 3498 | ASGL | 8/26/98 | 11:45:08 | 3.8 | 8 | 3.2 | 9.42 | 21.58 | 8.28 | 53 | 0.03 | 106.9 | 203 | 221 |
| Hidden Lake | 3498 | ASGL | 8/26/98 | 11:45:08 | 3.8 | 7 | 4 | 9.41 | 21.55 | 8.27 | 53.1 | 0.03 | 106.8 | 129 | 214 |
| Hidden Lake | 3498 | ASGL | 8/26/98 | 11:45:08 | 3.8 | 6 | 4.7 | 9.37 | 21.55 | 8.25 | 53.1 | 0.03 | 106.3 | 149 | 202 |
| Hidden Lake | 3498 | ASGL | 8/26/98 | 11:45:08 | 3.8 | 5 | 5.5 | 9.69 | 21.32 | 8.37 | 53.9 | 0.03 | 109.4 | 132 | 176 |
| Hidden Lake | 3498 | ASGL | 8/26/98 | 11:45:08 | 3.8 | 4 | 6.2 | 2.34 | 20.16 | 6.86 | 58.8 | 0.04 | 25.9 | 203 | 185 |
| Hidden Lake | 3498 | ASGL | 8/26/98 | 11:45:08 | 3.8 | 3 | 7 | 0.13 | 17.95 | 6.7 | 67.5 | 0.04 | 1.4 | 201 | 123 |
| Hidden Lake | 3498 | ASGL | 8/26/98 | 11:45:08 | 3.8 | 2 | 7.7 | 0.12 | 15.42 | 6.89 | 83.7 | 0.05 | 1.2 | 132 | 55 |
| Hidden Lake | 3498 | ASGL | 8/26/98 | 11:45:08 | 3.8 | 1 | 8.5 | 0.15 | 13.55 | 7.04 | 129.1 | 0.08 | 1.4 | 318 | 32 |
| | | | | | | | | | | | | | | | |
| Hidden Lake | 3598 | DTAS | 9/3/98 | 13:09:26 | 6.2 | 9 | 0.3 | 9.46 | 22.13 | 8.26 | 57.9 | 0.04 | 108.7 | 40 | 238 |
| Hidden Lake | 3598 | DTAS | 9/3/98 | 13:09:26 | 6.2 | 8 | 1 | 9.48 | 21.97 | 8.27 | 57.9 | 0.04 | 108.6 | 41 | 232 |
| Hidden Lake | 3598 | DTAS | 9/3/98 | 13:09:26 | 6.2 | 7 | 2 | 9.48 | 21.74 | 8.21 | 57.7 | 0.04 | 108.2 | 42 | 231 |
| Hidden Lake | 3598 | DTAS | 9/3/98 | 13:09:26 | 6.2 | 6 | 3 | 9.47 | 21.6 | 8.17 | 57.7 | 0.04 | 107.7 | 151 | 224 |
| Hidden Lake | 3598 | DTAS | 9/3/98 | 13:09:26 | 6.2 | 5 | 4 | 9.42 | 21.53 | 8.02 | 58.1 | 0.04 | 107 | 38 | 209 |
| Hidden Lake | 3598 | DTAS | 9/3/98 | 13:09:26 | 6.2 | 4 | 5 | 9.34 | 21.46 | 7.9 | 57.8 | 0.04 | 106 | 129 | 206 |
| Hidden Lake | 3598 | DTAS | 9/3/98 | 13:09:26 | 6.2 | 3 | 6 | 4.92 | 20.83 | 7 | 59.6 | 0.04 | 55.2 | 125 | 217 |
| Hidden Lake | 3598 | DTAS | 9/3/98 | 13:09:26 | 6.2 | 2 | 7 | 0.12 | 17.86 | 6.64 | 77.7 | 0.05 | 1.3 | 58 | 184 |
| Hidden Lake | 3598 | DTAS | 9/3/98 | 13:09:26 | 6.2 | 1 | 7.8 | 0.17 | 15.2 | 6.93 | 116.9 | 0.07 | 1.7 | 309 | 90 |
| | | | | | | | | | | | | | | | |
| Hidden Lake | 4098 | KBDB | 10/9/98 | 12:22:00 | 2.7 | 12 | 0.3 | 9.83 | 14.5 | 7.84 | 57.7 | 0.04 | 96.2 | 53 | 313 |
| Hidden Lake | 4098 | KBDB | 10/9/98 | 12:22:00 | 2.7 | 11 | 0.9 | 9.88 | 14.45 | 7.83 | 57.7 | 0.04 | 96.6 | 59 | 314 |
| Hidden Lake | 4098 | KBDB | 10/9/98 | 12:22:00 | 2.7 | 10 | 1.7 | 9.84 | 14.27 | 7.75 | 57.6 | 0.04 | 95.9 | 43 | 316 |
| Hidden Lake | 4098 | KBDB | 10/9/98 | 12:22:00 | 2.7 | 9 | 2.4 | 9.64 | 14.23 | 7.69 | 57.7 | 0.04 | 93.8 | 54 | 317 |
| Hidden Lake | 4098 | KBDB | 10/9/98 | 12:22:00 | 2.7 | 8 | 3.1 | 9.48 | 14.21 | 7.61 | 57.6 | 0.04 | 92.2 | 103 | 320 |
| Hidden Lake | 4098 | KBDB | 10/9/98 | 12:22:00 | 2.7 | 7 | 3.8 | 9.48 | 14.22 | 7.65 | 57.8 | 0.04 | 92.2 | 111 | 317 |
| Hidden Lake | 4098 | KBDB | 10/9/98 | 12:22:00 | 2.7 | 6 | 4.5 | 9.46 | 14.2 | 7.63 | 57.7 | 0.04 | 92 | 122 | 318 |
| Hidden Lake | 4098 | KBDB | 10/9/98 | 12:22:00 | 2.7 | 5 | 5.2 | 9.47 | 14.18 | 7.65 | 57.9 | 0.04 | 92.1 | 55 | 317 |
| Hidden Lake | 4098 | KBDB | 10/9/98 | 12:22:00 | 2.7 | 4 | 5.9 | 9.69 | 14.13 | 7.68 | 57.2 | 0.04 | 94.1 | 153 | 317 |
| Hidden Lake | 4098 | KBDB | 10/9/98 | 12:22:00 | 2.7 | 3 | 6.6 | 9.76 | 14.08 | 7.66 | 57.4 | 0.04 | 94.7 | 113 | 317 |

| | | | | | | | | | | | | | | | |
|-------------|------|--------|----------|----------|-----|----|-----|------|-------|------|------|------|------|-----|-----|
| Hidden Lake | 4098 | KBDB | 10/9/98 | 12:22:00 | 2.7 | 2 | 7.3 | 9.76 | 14.03 | 7.63 | 57.7 | 0.04 | 94.6 | 143 | 317 |
| Hidden Lake | 4098 | KBDB | 10/9/98 | 12:22:00 | 2.7 | 1 | 7.9 | 9.94 | 13.86 | 7.58 | 57.6 | 0.04 | 95.9 | 401 | 323 |
| | | | | | | | | | | | | | | | |
| Hidden Lake | 4298 | DTASJB | 10/19/98 | 11:09:03 | 2.7 | 13 | 0.4 | 10.4 | 11.18 | 7.89 | 57.8 | 0.04 | 93.4 | 39 | 335 |
| Hidden Lake | 4298 | DTASJB | 10/19/98 | 11:09:03 | 2.7 | 12 | 1 | 10.4 | 11.13 | 7.9 | 57.9 | 0.04 | 93.2 | 52 | 335 |
| Hidden Lake | 4298 | DTASJB | 10/19/98 | 11:09:03 | 2.7 | 11 | 1.5 | 10.4 | 11 | 7.9 | 57.5 | 0.04 | 92.9 | 42 | 336 |
| Hidden Lake | 4298 | DTASJB | 10/19/98 | 11:09:03 | 2.7 | 10 | 2 | 10.4 | 10.95 | 7.86 | 57.8 | 0.04 | 92.9 | 116 | 338 |
| Hidden Lake | 4298 | DTASJB | 10/19/98 | 11:09:03 | 2.7 | 9 | 2.5 | 10.4 | 10.79 | 7.86 | 57.5 | 0.04 | 92.5 | 38 | 337 |
| Hidden Lake | 4298 | DTASJB | 10/19/98 | 11:09:03 | 2.7 | 8 | 3 | 10.4 | 10.77 | 7.82 | 57.6 | 0.04 | 92.3 | 56 | 339 |
| Hidden Lake | 4298 | DTASJB | 10/19/98 | 11:09:03 | 2.7 | 7 | 3.5 | 10.3 | 10.76 | 7.8 | 57.5 | 0.04 | 92 | 119 | 339 |
| Hidden Lake | 4298 | DTASJB | 10/19/98 | 11:09:03 | 2.7 | 6 | 4 | 10.3 | 10.71 | 7.75 | 57.6 | 0.04 | 91.7 | 47 | 340 |
| Hidden Lake | 4298 | DTASJB | 10/19/98 | 11:09:03 | 2.7 | 5 | 4.5 | 10.3 | 10.68 | 7.76 | 57.3 | 0.04 | 91.4 | 38 | 339 |
| Hidden Lake | 4298 | DTASJB | 10/19/98 | 11:09:03 | 2.7 | 4 | 5 | 10.3 | 10.66 | 7.76 | 57.5 | 0.04 | 91.6 | 37 | 339 |
| Hidden Lake | 4298 | DTASJB | 10/19/98 | 11:09:03 | 2.7 | 3 | 5.5 | 10.4 | 10.64 | 7.77 | 57.4 | 0.04 | 92.3 | 46 | 339 |
| Hidden Lake | 4298 | DTASJB | 10/19/98 | 11:09:03 | 2.7 | 2 | 6 | 10.4 | 10.58 | 7.76 | 57.6 | 0.04 | 92.5 | 119 | 339 |
| Hidden Lake | 4298 | DTASJB | 10/19/98 | 11:09:03 | 2.7 | 1 | 6.5 | 10.4 | 10.58 | 7.69 | 57.6 | 0.04 | 92.5 | 228 | 346 |
| | | | | | | | | | | | | | | | |
| Hidden Lake | 4698 | KBAS | 11/17/98 | 11:23:00 | 3.3 | 8 | 0.3 | 9.83 | 6.86 | 7.7 | 53.4 | 0.03 | 81.4 | 100 | 277 |
| Hidden Lake | 4698 | KBAS | 11/17/98 | 11:23:00 | 3.3 | 7 | 1.2 | 9.81 | 6.85 | 7.73 | 53.7 | 0.03 | 81.3 | 125 | 273 |
| Hidden Lake | 4698 | KBAS | 11/17/98 | 11:23:00 | 3.3 | 6 | 2.2 | 9.75 | 6.82 | 7.68 | 53.4 | 0.03 | 80.8 | 130 | 272 |
| Hidden Lake | 4698 | KBAS | 11/17/98 | 11:23:00 | 3.3 | 5 | 3.3 | 9.72 | 6.79 | 7.64 | 53.4 | 0.03 | 80.4 | 121 | 270 |
| Hidden Lake | 4698 | KBAS | 11/17/98 | 11:23:00 | 3.3 | 4 | 4.2 | 9.72 | 6.79 | 7.61 | 53.6 | 0.03 | 80.4 | 55 | 267 |
| Hidden Lake | 4698 | KBAS | 11/17/98 | 11:23:00 | 3.3 | 3 | 5.2 | 9.7 | 6.78 | 7.61 | 53.4 | 0.03 | 80.2 | 134 | 264 |
| Hidden Lake | 4698 | KBAS | 11/17/98 | 11:23:00 | 3.3 | 2 | 6.2 | 9.63 | 6.79 | 7.56 | 53.5 | 0.03 | 79.7 | 115 | 261 |
| Hidden Lake | 4698 | KBAS | 11/17/98 | 11:23:00 | 3.3 | 1 | 7.2 | 9.6 | 6.79 | 7.54 | 53.3 | 0.03 | 79.4 | 713 | 256 |

| Location | Phase | Samplers | Date | Time | Secchi (m) | Sequence | Depth (m) | Dissolved Oxygen (mg/L) | Temperature (C) | pH | Conductivity (µs/cm) | TDS | Saturated Dissolved Oxygen | Stabilization Time | Redox |
|------------|-------|----------|---------|----------|------------|----------|-----------|-------------------------|-----------------|------|----------------------|------|----------------------------|--------------------|-------|
| Round Lake | 1398 | DBRP | 4/3/98 | 13:04:20 | 1.3 | 4 | 0.2 | 12.5 | 6.13 | 7.04 | 41.8 | 0.03 | 101.5 | 46 | 396 |
| Round Lake | 1398 | DBRP | 4/3/98 | 13:04:20 | 1.3 | 3 | 0.5 | 12.6 | 6.05 | 7.02 | 41.7 | 0.03 | 101.4 | 57 | 399 |
| Round Lake | 1398 | DBRP | 4/3/98 | 13:04:20 | 1.3 | 2 | 0.9 | 12.5 | 6.1 | 7.02 | 41.6 | 0.03 | 101.4 | 154 | 401 |
| Round Lake | 1398 | DBRP | 4/3/98 | 13:04:20 | 1.3 | 1 | 1.3 | 12.7 | 6.36 | 6.98 | 41.8 | 0.03 | 103.5 | 153 | 405 |
| | | | | | | | | | | | | | | | |
| Round Lake | 1698 | DBASRP | 4/21/98 | 12:28:46 | 1.0 | 4 | 0.4 | 11.8 | 9.13 | 7.05 | 44.1 | 0.03 | 102.4 | 57 | 376 |
| Round Lake | 1698 | DBASRP | 4/21/98 | 12:28:46 | 1.0 | 3 | 0.6 | 11.8 | 8.97 | 7.1 | 44 | 0.03 | 101.9 | 54 | 374 |
| Round Lake | 1698 | DBASRP | 4/21/98 | 12:28:46 | 1.0 | 2 | 0.8 | 11.8 | 8.99 | 7.07 | 44 | 0.03 | 101.6 | 213 | 376 |
| Round Lake | 1698 | DBASRP | 4/21/98 | 12:28:46 | 1.0 | 1 | 1 | 11.7 | 9.2 | 7.08 | 43.7 | 0.03 | 101.1 | 250 | 395 |
| | | | | | | | | | | | | | | | |
| Round Lake | 2098 | ASJLDT | 5/21/98 | 14:04:17 | 1.7 | 6 | 0.3 | 11.9 | 9.68 | 7.04 | 35.3 | 0.02 | 104.4 | 54 | 410 |
| Round Lake | 2098 | ASJLDT | 5/21/98 | 14:04:17 | 1.7 | 5 | 0.3 | 11.9 | 9.76 | 7.07 | 35.2 | 0.02 | 105.1 | 50 | 410 |
| Round Lake | 2098 | ASJLDT | 5/21/98 | 14:04:17 | 1.7 | 4 | 1 | 11.9 | 9.66 | 7.06 | 35.3 | 0.02 | 104.9 | 58 | 410 |
| Round Lake | 2098 | ASJLDT | 5/21/98 | 14:04:17 | 1.7 | 3 | 1 | 11.9 | 9.64 | 7.02 | 35.2 | 0.02 | 105 | 102 | 414 |
| Round Lake | 2098 | ASJLDT | 5/21/98 | 14:04:17 | 1.7 | 2 | 1.7 | 11.9 | 9.66 | 7.03 | 35.3 | 0.02 | 105.1 | 57 | 414 |
| Round Lake | 2098 | ASJLDT | 5/21/98 | 14:04:17 | 1.7 | 1 | 1.7 | 11.9 | 9.68 | 7.05 | 35.3 | 0.02 | 105 | 340 | 413 |

| | | | | | | | | | | | | | | | | |
|------------|------|--------|---------|----------|-----|---|-----|------|-------|------|------|------|-------|-----|-----|--|
| | | | | | | | | | | | | | | | | |
| Round Lake | 2398 | DTJLAS | 6/8/98 | 14:10:07 | 1.8 | 8 | 0.3 | 10.7 | 12.62 | 7.3 | 39.2 | 0.03 | 100.9 | 35 | 368 | |
| Round Lake | 2398 | DTJLAS | 6/8/98 | 14:10:07 | 1.8 | 7 | 0.3 | 10.7 | 12.62 | 7.3 | 39.2 | 0.03 | 100.3 | 44 | 369 | |
| Round Lake | 2398 | DTJLAS | 6/8/98 | 14:10:07 | 1.8 | 6 | 0.7 | 10.7 | 12.58 | 7.27 | 39.2 | 0.03 | 100.8 | 47 | 371 | |
| Round Lake | 2398 | DTJLAS | 6/8/98 | 14:10:07 | 1.8 | 5 | 0.7 | 10.7 | 12.64 | 7.29 | 39.3 | 0.03 | 100.4 | 122 | 370 | |
| Round Lake | 2398 | DTJLAS | 6/8/98 | 14:10:07 | 1.8 | 4 | 1.2 | 10.8 | 12.46 | 7.28 | 39.2 | 0.03 | 100.9 | 43 | 371 | |
| Round Lake | 2398 | DTJLAS | 6/8/98 | 14:10:07 | 1.8 | 3 | 1.2 | 10.8 | 12.48 | 7.28 | 39.2 | 0.03 | 101 | 116 | 372 | |
| Round Lake | 2398 | DTJLAS | 6/8/98 | 14:10:07 | 1.8 | 2 | 1.8 | 10.9 | 12.49 | 7.28 | 39.3 | 0.03 | 101.9 | 44 | 372 | |
| Round Lake | 2398 | DTJLAS | 6/8/98 | 14:10:07 | 1.8 | 1 | 1.8 | 10.9 | 12.54 | 7.27 | 39.2 | 0.03 | 102.1 | 215 | 372 | |
| | | | | | | | | | | | | | | | | |
| Round Lake | 2598 | DTASBH | 6/22/98 | 10:57:51 | 1.6 | 6 | 0.3 | 10.3 | 16.71 | 7.36 | 43.9 | 0.03 | 106.2 | 123 | 343 | |
| Round Lake | 2598 | DTASBH | 6/22/98 | 10:57:51 | 1.6 | 5 | 0.3 | 10.3 | 16.36 | 7.33 | 44 | 0.03 | 105.1 | 49 | 343 | |
| Round Lake | 2598 | DTASBH | 6/22/98 | 10:57:51 | 1.6 | 4 | 0.9 | 9.99 | 15.66 | 7.28 | 43.6 | 0.03 | 100.6 | 213 | 345 | |
| Round Lake | 2598 | DTASBH | 6/22/98 | 10:57:51 | 1.6 | 3 | 0.9 | 10.1 | 15.83 | 7.28 | 43.6 | 0.03 | 101.8 | 143 | 343 | |
| Round Lake | 2598 | DTASBH | 6/22/98 | 10:57:51 | 1.6 | 2 | 1.6 | 10 | 15.39 | 7.25 | 43.6 | 0.03 | 100.5 | 112 | 343 | |
| Round Lake | 2598 | DTASBH | 6/22/98 | 10:57:51 | 1.6 | 1 | 1.6 | 10.1 | 15.4 | 7.25 | 43.8 | 0.03 | 100.6 | 323 | 343 | |
| | | | | | | | | | | | | | | | | |
| Round Lake | 2798 | DTASBH | 7/7/98 | 9:38:04 | 2.0 | 4 | 0.4 | 9.08 | 20.76 | 7.32 | 53.3 | 0.03 | 100.9 | 135 | 340 | |
| Round Lake | 2798 | DTASBH | 7/7/98 | 9:38:04 | 2.0 | 3 | 1 | 9.13 | 20.08 | 7.27 | 53.1 | 0.03 | 100.2 | 236 | 343 | |
| Round Lake | 2798 | DTASBH | 7/7/98 | 9:38:04 | 2.0 | 2 | 1.5 | 9.18 | 19.9 | 7.26 | 53 | 0.03 | 100.4 | 203 | 342 | |
| Round Lake | 2798 | DTASBH | 7/7/98 | 9:38:04 | 2.0 | 1 | 2 | 9.23 | 19.9 | 7.3 | 52.8 | 0.03 | 100.9 | 403 | 350 | |
| | | | | | | | | | | | | | | | | |
| Round Lake | 2998 | ASBH | 7/21/98 | 10:20:54 | 1.5 | 4 | 0.4 | 8.75 | 23.47 | 7.41 | 54.5 | 0.03 | 102.6 | 56 | 306 | |
| Round Lake | 2998 | ASBH | 7/21/98 | 10:20:54 | 1.5 | 3 | 0.4 | 8.86 | 23.29 | 7.38 | 54.6 | 0.03 | 103.5 | 126 | 307 | |
| Round Lake | 2998 | ASBH | 7/21/98 | 10:20:54 | 1.5 | 2 | 1.6 | 9.43 | 22.04 | 7.47 | 54.1 | 0.03 | 107.6 | 104 | 303 | |
| Round Lake | 2998 | ASBH | 7/21/98 | 10:20:54 | 1.5 | 1 | 1.5 | 9.38 | 22.02 | 7.42 | 53.9 | 0.03 | 107 | 311 | 304 | |
| | | | | | | | | | | | | | | | | |
| Round Lake | 3298 | DBAS | 8/11/98 | 10:29:32 | 1.2 | 3 | 0.4 | 8.24 | 23.86 | 7.4 | 60.7 | 0.04 | 97.2 | 53 | 306 | |
| Round Lake | 3298 | DBAS | 8/11/98 | 10:29:32 | 1.2 | 2 | 0.8 | 8.43 | 23.64 | 7.4 | 60.6 | 0.04 | 99 | 132 | 306 | |
| Round Lake | 3298 | DBAS | 8/11/98 | 10:29:32 | 1.2 | 1 | 1.2 | 8.46 | 23.49 | 7.42 | 60.7 | 0.04 | 99.1 | 25 | 306 | |
| | | | | | | | | | | | | | | | | |
| Round Lake | 3498 | ASGL | 8/26/98 | 12:18:56 | .8 | 4 | 0.3 | 9.37 | 22.9 | 7.69 | 60.2 | 0.04 | 109.1 | 33 | 258 | |
| Round Lake | 3498 | ASGL | 8/26/98 | 12:18:56 | .8 | 3 | 0.3 | 9.41 | 22.9 | 7.7 | 60.2 | 0.04 | 109.6 | 53 | 256 | |
| Round Lake | 3498 | ASGL | 8/26/98 | 12:18:56 | .8 | 2 | 0.8 | 9.53 | 22.83 | 7.7 | 60.2 | 0.04 | 110.8 | 41 | 256 | |
| Round Lake | 3498 | ASGL | 8/26/98 | 12:18:56 | .8 | 1 | 0.8 | 9.55 | 22.83 | 7.7 | 60.2 | 0.04 | 111.1 | 216 | 255 | |
| | | | | | | | | | | | | | | | | |
| Round Lake | 3598 | DTAS | 9/3/98 | 11:19:20 | 1.1 | 4 | 0.2 | 8.49 | 21.95 | 7.38 | 65.4 | 0.04 | 97.3 | 120 | 258 | |
| Round Lake | 3598 | DTAS | 9/3/98 | 11:19:20 | 1.1 | 3 | 0.2 | 8.42 | 21.78 | 7.34 | 65.4 | 0.04 | 96.1 | 109 | 258 | |
| Round Lake | 3598 | DTAS | 9/3/98 | 11:19:20 | 1.1 | 2 | 1.1 | 8.35 | 21.35 | 7.35 | 65.3 | 0.04 | 94.5 | 227 | 254 | |
| Round Lake | 3598 | DTAS | 9/3/98 | 11:19:20 | 1.1 | 1 | 1.1 | 8.45 | 21.37 | 7.38 | 65.2 | 0.04 | 95.7 | 142 | 251 | |
| | | | | | | | | | | | | | | | | |
| Round Lake | 4098 | KBDB | 10/9/98 | 13:55:00 | 1.0 | 3 | 0.3 | 11.2 | 14.38 | 8.2 | 61.5 | 0.04 | 109.2 | 104 | 287 | |
| Round Lake | 4098 | KBDB | 10/9/98 | 13:55:00 | 1.0 | 2 | 0.6 | 11.6 | 14.21 | 8.39 | 61.3 | 0.04 | 112.9 | 131 | 284 | |
| Round Lake | 4098 | KBDB | 10/9/98 | 13:55:00 | 1.0 | 1 | 1.1 | 12.6 | 13.78 | 8.63 | 61 | 0.04 | 121.5 | 101 | 274 | |

| | | | | | | | | | | | | | |
|------------|------|--------|----------|----------|----|---|-----|------|------|------|------|------|-------|
| | | | | | | | | | | | | | |
| Round Lake | 4298 | DTASJB | 10/19/98 | 10:22:53 | .7 | 3 | 0.7 | 11.9 | 9.63 | 8.28 | 61.1 | 0.04 | 103.1 |
| Round Lake | 4298 | DTASJB | 10/19/98 | 10:22:53 | .7 | 2 | 0.7 | 11.9 | 9.63 | 8.29 | 61 | 0.04 | 103.4 |
| Round Lake | 4298 | DTASJB | 10/19/98 | 10:22:53 | .7 | 1 | 0.7 | 12.1 | 9.58 | 8.3 | 61.1 | 0.04 | 104.7 |

| Location | Phase | Samplers | Date | Time | Secchi (m) | Sequence | Depth (m) | Dissolved Oxygen (mg/L) | Temperature (C) | pH | Conductivity (µs/cm) | TDS | Saturated Dissolved Oxygen | Stabilization Time | Redox |
|-------------------|-------|----------|---------|----------|---------------|----------|--------------|-------------------------------|--------------------|------|-------------------------|------|----------------------------------|-----------------------|-------|
| Chatcolet Lake DP | 1098 | DBRP | 3/13/98 | 13:19:09 | 1.0 | 11 | 0.3 | 13.5 | 5.65 | 7.07 | 45.1 | 0.03 | 106.2 | 37 | 390 |
| Chatcolet Lake DP | 1098 | DBRP | 3/13/98 | 13:19:09 | 1.0 | 10 | 1.1 | 13.4 | 5.46 | 7.1 | 45 | 0.03 | 105.4 | 47 | 388 |
| Chatcolet Lake DP | 1098 | DBRP | 3/13/98 | 13:19:09 | 1.0 | 9 | 2.1 | 13.3 | 5.04 | 7.07 | 44.6 | 0.03 | 103.8 | 119 | 389 |
| Chatcolet Lake DP | 1098 | DBRP | 3/13/98 | 13:19:09 | 1.0 | 8 | 3.1 | 13.3 | 4.93 | 6.99 | 44.5 | 0.03 | 102.8 | 55 | 391 |
| Chatcolet Lake DP | 1098 | DBRP | 3/13/98 | 13:19:09 | 1.0 | 7 | 4.1 | 13.3 | 4.59 | 7 | 44.3 | 0.03 | 102.1 | 113 | 389 |
| Chatcolet Lake DP | 1098 | DBRP | 3/13/98 | 13:19:09 | 1.0 | 6 | 5.1 | 13.3 | 4.34 | 7.07 | 44.8 | 0.03 | 101.2 | 103 | 385 |
| Chatcolet Lake DP | 1098 | DBRP | 3/13/98 | 13:19:09 | 1.0 | 5 | 6.1 | 13.3 | 4.34 | 6.97 | 45 | 0.03 | 101.2 | 55 | 389 |
| Chatcolet Lake DP | 1098 | DBRP | 3/13/98 | 13:19:09 | 1.0 | 4 | 7.1 | 13.3 | 4.31 | 7 | 45.1 | 0.03 | 101.3 | 116 | 386 |
| Chatcolet Lake DP | 1098 | DBRP | 3/13/98 | 13:19:09 | 1.0 | 3 | 8.1 | 13.3 | 4.31 | 6.95 | 45.5 | 0.03 | 101.3 | 139 | 387 |
| Chatcolet Lake DP | 1098 | DBRP | 3/13/98 | 13:19:09 | 1.0 | 2 | 9.1 | 13.3 | 4.24 | 6.84 | 45.3 | 0.03 | 101.1 | 125 | 391 |
| Chatcolet Lake DP | 1098 | DBRP | 3/13/98 | 13:19:09 | 1.0 | 1 | 10.1 | 13 | 4.34 | 6.79 | 44.8 | 0.03 | 99.3 | 237 | 392 |
| Chatcolet Lake DP | 1498 | DBAS | 4/8/98 | 14:53:37 | 2.0 | 11 | 0.3 | 12.3 | 7.43 | 7.1 | 39.2 | 0.03 | 102.3 | 54 | 398 |
| Chatcolet Lake DP | 1498 | DBAS | 4/8/98 | 14:53:37 | 2.0 | 10 | 1.1 | 12.3 | 7.43 | 7.04 | 39.4 | 0.03 | 102.2 | 38 | 402 |
| Chatcolet Lake DP | 1498 | DBAS | 4/8/98 | 14:53:37 | 2.0 | 9 | 2.1 | 12.3 | 7.4 | 7.07 | 39.1 | 0.03 | 102.2 | 56 | 401 |
| Chatcolet Lake DP | 1498 | DBAS | 4/8/98 | 14:53:37 | 2.0 | 8 | 3.1 | 12.3 | 7.33 | 7.13 | 39.1 | 0.03 | 101.9 | 53 | 398 |
| Chatcolet Lake DP | 1498 | DBAS | 4/8/98 | 14:53:37 | 2.0 | 7 | 4.1 | 12.3 | 7.24 | 7.06 | 39.1 | 0.03 | 101.6 | 59 | 401 |
| Chatcolet Lake DP | 1498 | DBAS | 4/8/98 | 14:53:37 | 2.0 | 6 | 5.2 | 12.3 | 7.19 | 7.09 | 38.9 | 0.02 | 101.6 | 40 | 398 |
| Chatcolet Lake DP | 1498 | DBAS | 4/8/98 | 14:53:37 | 2.0 | 5 | 6.2 | 12.3 | 7.04 | 7.12 | 38.6 | 0.02 | 101.3 | 100 | 396 |
| Chatcolet Lake DP | 1498 | DBAS | 4/8/98 | 14:53:37 | 2.0 | 4 | 7.2 | 12.2 | 7.02 | 7.01 | 38.9 | 0.02 | 100.9 | 50 | 401 |
| Chatcolet Lake DP | 1498 | DBAS | 4/8/98 | 14:53:37 | 2.0 | 3 | 8.1 | 12.2 | 6.89 | 7.03 | 38.7 | 0.02 | 100.6 | 37 | 398 |
| Chatcolet Lake DP | 1498 | DBAS | 4/8/98 | 14:53:37 | 2.0 | 2 | 9.2 | 12.2 | 6.39 | 6.95 | 38.3 | 0.02 | 99 | 29 | 401 |
| Chatcolet Lake DP | 1498 | DBAS | 4/8/98 | 14:53:37 | 2.0 | 1 | 10.1 | 12.2 | 6.36 | 6.98 | 38 | 0.02 | 99 | 204 | 403 |
| Chatcolet Lake DP | 1698 | DBASRP | 4/21/98 | 13:04:35 | 2.6 | 11 | 0.4 | 11.9 | 10.53 | 7.14 | 42.5 | 0.03 | 106.4 | 50 | 392 |
| Chatcolet Lake DP | 1698 | DBASRP | 4/21/98 | 13:04:35 | 2.6 | 10 | 1.4 | 11.9 | 10.33 | 7.21 | 42.4 | 0.03 | 106 | 111 | 391 |
| Chatcolet Lake DP | 1698 | DBASRP | 4/21/98 | 13:04:35 | 2.6 | 9 | 2.4 | 12 | 9.79 | 7.16 | 42.3 | 0.03 | 105 | 100 | 394 |
| Chatcolet Lake DP | 1698 | DBASRP | 4/21/98 | 13:04:35 | 2.6 | 8 | 3.5 | 11.9 | 9.14 | 7.16 | 42.1 | 0.03 | 103 | 102 | 394 |
| Chatcolet Lake DP | 1698 | DBASRP | 4/21/98 | 13:04:35 | 2.6 | 7 | 4.4 | 11.8 | 8.61 | 7.08 | 42.8 | 0.03 | 101.2 | 117 | 397 |
| Chatcolet Lake DP | 1698 | DBASRP | 4/21/98 | 13:04:35 | 2.6 | 6 | 5.4 | 11.8 | 8.46 | 7.08 | 43.1 | 0.03 | 100 | 111 | 395 |
| Chatcolet Lake DP | 1698 | DBASRP | 4/21/98 | 13:04:35 | 2.6 | 5 | 6.4 | 11.6 | 7.95 | 6.98 | 43 | 0.03 | 97.3 | 105 | 400 |
| Chatcolet Lake DP | 1698 | DBASRP | 4/21/98 | 13:04:35 | 2.6 | 4 | 7.4 | 11.6 | 7.43 | 6.97 | 42.4 | 0.03 | 96 | 114 | 399 |
| Chatcolet Lake DP | 1698 | DBASRP | 4/21/98 | 13:04:35 | 2.6 | 3 | 8.4 | 11.3 | 6.9 | 6.91 | 41.1 | 0.03 | 92.8 | 134 | 401 |
| Chatcolet Lake DP | 1698 | DBASRP | 4/21/98 | 13:04:35 | 2.6 | 2 | 9.4 | 11.2 | 6.89 | 6.92 | 41.1 | 0.03 | 91.6 | 146 | 401 |
| Chatcolet Lake DP | 1698 | DBASRP | 4/21/98 | 13:04:35 | 2.6 | 1 | 10.4 | 11 | 7.27 | 6.95 | 40.9 | 0.03 | 90.9 | 218 | 401 |

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|-------------------|------|--------|---------|----------|-----|----|------|------|-------|------|------|------|-------|------|-----|
| Chatcolet Lake DP | 2098 | ASJLDT | 5/21/98 | 12:25:30 | 2.6 | 12 | 0.3 | 11.7 | 11.76 | 7.17 | 34.3 | 0.02 | 108.1 | 152 | 417 |
| Chatcolet Lake DP | 2098 | ASJLDT | 5/21/98 | 12:25:30 | 2.6 | 11 | 1.3 | 11.7 | 11.76 | 7.23 | 34.4 | 0.02 | 108.1 | 107 | 415 |
| Chatcolet Lake DP | 2098 | ASJLDT | 5/21/98 | 12:25:30 | 2.6 | 10 | 2.3 | 11.7 | 11.64 | 7.13 | 34.3 | 0.02 | 108.1 | 101 | 421 |
| Chatcolet Lake DP | 2098 | ASJLDT | 5/21/98 | 12:25:30 | 2.6 | 9 | 3.3 | 11.7 | 11.56 | 7.12 | 34.3 | 0.02 | 108.1 | 115 | 421 |
| Chatcolet Lake DP | 2098 | ASJLDT | 5/21/98 | 12:25:30 | 2.6 | 8 | 4.3 | 11.7 | 11.4 | 7.13 | 34.4 | 0.02 | 107.4 | 107 | 418 |
| Chatcolet Lake DP | 2098 | ASJLDT | 5/21/98 | 12:25:30 | 2.6 | 7 | 5.3 | 11.6 | 10.95 | 6.9 | 34.6 | 0.02 | 105.7 | 47 | 428 |
| Chatcolet Lake DP | 2098 | ASJLDT | 5/21/98 | 12:25:30 | 2.6 | 6 | 6.3 | 11.4 | 9.73 | 6.88 | 34.6 | 0.02 | 100.5 | 156 | 427 |
| Chatcolet Lake DP | 2098 | ASJLDT | 5/21/98 | 12:25:30 | 2.6 | 5 | 7.3 | 11.3 | 9.37 | 6.85 | 33.8 | 0.02 | 99.2 | 151 | 427 |
| Chatcolet Lake DP | 2098 | ASJLDT | 5/21/98 | 12:25:30 | 2.6 | 4 | 8.4 | 11.1 | 8.97 | 6.82 | 33.7 | 0.02 | 95.9 | 247 | 426 |
| Chatcolet Lake DP | 2098 | ASJLDT | 5/21/98 | 12:25:30 | 2.6 | 3 | 9.2 | 11.1 | 8.97 | 6.76 | 33.6 | 0.02 | 96.2 | 206 | 427 |
| Chatcolet Lake DP | 2098 | ASJLDT | 5/21/98 | 12:25:30 | 2.6 | 2 | 10.3 | 11.1 | 8.91 | 6.7 | 33.7 | 0.02 | 96.1 | 155 | 428 |
| Chatcolet Lake DP | 2098 | ASJLDT | 5/21/98 | 12:25:30 | 2.6 | 1 | 11.3 | 10.9 | 8.65 | 6.62 | 33.6 | 0.02 | 93.5 | 437 | 429 |
| Chatcolet Lake DP | 2398 | DTJLAS | 6/8/98 | 15:35:20 | 2.9 | 12 | 0.4 | 10.7 | 16.06 | 7.46 | 39.6 | 0.03 | 108.5 | 25 | 355 |
| Chatcolet Lake DP | 2398 | DTJLAS | 6/8/98 | 15:35:20 | 2.9 | 11 | 1.1 | 10.7 | 16.06 | 7.45 | 39.6 | 0.03 | 108.6 | 28 | 356 |
| Chatcolet Lake DP | 2398 | DTJLAS | 6/8/98 | 15:35:20 | 2.9 | 10 | 2.1 | 10.5 | 16.03 | 7.45 | 39.7 | 0.03 | 106.8 | 34 | 355 |
| Chatcolet Lake DP | 2398 | DTJLAS | 6/8/98 | 15:35:20 | 2.9 | 9 | 3.1 | 10.7 | 15.34 | 7.43 | 39.4 | 0.03 | 107.4 | 56 | 355 |
| Chatcolet Lake DP | 2398 | DTJLAS | 6/8/98 | 15:35:20 | 2.9 | 8 | 4.1 | 10.9 | 12.86 | 7.3 | 38.4 | 0.02 | 103 | 128 | 358 |
| Chatcolet Lake DP | 2398 | DTJLAS | 6/8/98 | 15:35:20 | 2.9 | 7 | 5.1 | 10.6 | 12.3 | 7.17 | 37.8 | 0.02 | 98.6 | 55 | 359 |
| Chatcolet Lake DP | 2398 | DTJLAS | 6/8/98 | 15:35:20 | 2.9 | 6 | 6.1 | 10.2 | 11.75 | 7.09 | 37.4 | 0.02 | 93.8 | 51 | 359 |
| Chatcolet Lake DP | 2398 | DTJLAS | 6/8/98 | 15:35:20 | 2.9 | 5 | 7.1 | 10.1 | 11.2 | 7.04 | 37 | 0.02 | 91.8 | 48 | 358 |
| Chatcolet Lake DP | 2398 | DTJLAS | 6/8/98 | 15:35:20 | 2.9 | 4 | 8.1 | 9.76 | 10.56 | 6.98 | 36.7 | 0.02 | 87.6 | 48 | 356 |
| Chatcolet Lake DP | 2398 | DTJLAS | 6/8/98 | 15:35:20 | 2.9 | 3 | 9.1 | 9.73 | 10.21 | 6.96 | 36.4 | 0.02 | 86.6 | 37 | 354 |
| Chatcolet Lake DP | 2398 | DTJLAS | 6/8/98 | 15:35:20 | 2.9 | 2 | 10.1 | 9.67 | 10.1 | 6.94 | 36.3 | 0.02 | 85.8 | 40 | 352 |
| Chatcolet Lake DP | 2398 | DTJLAS | 6/8/98 | 15:35:20 | 2.9 | 1 | 11.1 | 9.17 | 9.38 | 6.9 | 36.6 | 0.02 | 80.1 | 225 | 371 |
| Chatcolet Lake DP | 2598 | DTASBH | 6/22/98 | 11:40:57 | 3.1 | 11 | 0.4 | 10.5 | 19.09 | 7.66 | 41.9 | 0.03 | 113.2 | 1021 | 339 |
| Chatcolet Lake DP | 2598 | DTASBH | 6/22/98 | 11:40:57 | 3.1 | 10 | 1.4 | 10.7 | 18.1 | 7.62 | 41.7 | 0.03 | 113.6 | 131 | 343 |
| Chatcolet Lake DP | 2598 | DTASBH | 6/22/98 | 11:40:57 | 3.1 | 9 | 2.4 | 11.1 | 16.44 | 7.59 | 41.6 | 0.03 | 113.2 | 52 | 346 |
| Chatcolet Lake DP | 2598 | DTASBH | 6/22/98 | 11:40:57 | 3.1 | 8 | 3.4 | 10.3 | 15.52 | 7.3 | 40.9 | 0.03 | 103.3 | 227 | 352 |
| Chatcolet Lake DP | 2598 | DTASBH | 6/22/98 | 11:40:57 | 3.1 | 7 | 4.4 | 9.42 | 14.44 | 7.07 | 39.9 | 0.03 | 92.4 | 117 | 356 |
| Chatcolet Lake DP | 2598 | DTASBH | 6/22/98 | 11:40:57 | 3.1 | 6 | 5.4 | 9.42 | 13.86 | 7.03 | 39.9 | 0.03 | 91.2 | 105 | 356 |
| Chatcolet Lake DP | 2598 | DTASBH | 6/22/98 | 11:40:57 | 3.1 | 5 | 6.4 | 8.9 | 13.18 | 6.88 | 38.6 | 0.02 | 84.8 | 55 | 358 |
| Chatcolet Lake DP | 2598 | DTASBH | 6/22/98 | 11:40:57 | 3.1 | 4 | 7.4 | 8.13 | 12.15 | 6.78 | 37.3 | 0.02 | 75.7 | 120 | 359 |
| Chatcolet Lake DP | 2598 | DTASBH | 6/22/98 | 11:40:57 | 3.1 | 3 | 8.4 | 7.63 | 11.33 | 6.72 | 36.8 | 0.02 | 69.7 | 200 | 358 |
| Chatcolet Lake DP | 2598 | DTASBH | 6/22/98 | 11:40:57 | 3.1 | 2 | 9.4 | 7.14 | 11.11 | 6.7 | 37.3 | 0.02 | 64.9 | 141 | 355 |
| Chatcolet Lake DP | 2598 | DTASBH | 6/22/98 | 11:40:57 | 3.1 | 1 | 10.4 | 6.46 | 10.57 | 6.7 | 37.3 | 0.02 | 58 | 228 | 351 |
| Chatcolet Lake DP | 2798 | DTASBH | 7/7/98 | 10:48:54 | 3.6 | 11 | 0.4 | 10.1 | 23.28 | 8.48 | 50.5 | 0.03 | 117.5 | 39 | 329 |
| Chatcolet Lake DP | 2798 | DTASBH | 7/7/98 | 10:48:54 | 3.6 | 10 | 1.7 | 10.4 | 21.67 | 8.51 | 49.8 | 0.03 | 117.7 | 152 | 333 |
| Chatcolet Lake DP | 2798 | DTASBH | 7/7/98 | 10:48:54 | 3.6 | 9 | 2.7 | 10.6 | 20.77 | 8.37 | 49.3 | 0.03 | 117.3 | 134 | 337 |
| Chatcolet Lake DP | 2798 | DTASBH | 7/7/98 | 10:48:54 | 3.6 | 8 | 3.7 | 10.2 | 19.44 | 7.61 | 49.5 | 0.03 | 110.3 | 151 | 354 |
| Chatcolet Lake DP | 2798 | DTASBH | 7/7/98 | 10:48:54 | 3.6 | 7 | 4.7 | 10.2 | 17.79 | 7.55 | 47.2 | 0.03 | 106.8 | 231 | 356 |
| Chatcolet Lake DP | 2798 | DTASBH | 7/7/98 | 10:48:54 | 3.6 | 6 | 5.7 | 9.25 | 15.62 | 7.14 | 45.1 | 0.03 | 92.6 | 204 | 364 |

| | | | | | | | | | | | | | | | |
|-------------------|------|--------|---------|----------|-----|----|------|------|-------|------|------|------|-------|-----|-----|
| Chatcolet Lake DP | 2798 | DTASBH | 7/7/98 | 10:48:54 | 3.6 | 5 | 6.7 | 7.9 | 14.66 | 6.9 | 44.1 | 0.03 | 77.4 | 304 | 367 |
| Chatcolet Lake DP | 2798 | DTASBH | 7/7/98 | 10:48:54 | 3.6 | 4 | 7.7 | 7.16 | 13.71 | 6.74 | 43.3 | 0.03 | 68.8 | 102 | 369 |
| Chatcolet Lake DP | 2798 | DTASBH | 7/7/98 | 10:48:54 | 3.6 | 3 | 8.7 | 5.81 | 12.85 | 6.64 | 42.6 | 0.03 | 54.7 | 247 | 369 |
| Chatcolet Lake DP | 2798 | DTASBH | 7/7/98 | 10:48:54 | 3.6 | 2 | 9.7 | 4.78 | 12.16 | 6.58 | 42.9 | 0.03 | 44.4 | 126 | 367 |
| Chatcolet Lake DP | 2798 | DTASBH | 7/7/98 | 10:48:54 | 3.6 | 1 | 10.7 | 4.21 | 12.16 | 6.59 | 43.4 | 0.03 | 39 | 309 | 364 |
| Chatcolet Lake DP | 2998 | ASBH | 7/21/98 | 12:25:45 | 6.8 | 11 | 0.6 | 9.15 | 25.45 | 8.49 | 51.1 | 0.03 | 111.3 | 144 | 283 |
| Chatcolet Lake DP | 2998 | ASBH | 7/21/98 | 12:25:45 | 6.8 | 10 | 1.6 | 9.13 | 24 | 8.28 | 50.2 | 0.03 | 108.1 | 101 | 287 |
| Chatcolet Lake DP | 2998 | ASBH | 7/21/98 | 12:25:45 | 6.8 | 9 | 2.6 | 9.15 | 23.53 | 8.26 | 50.1 | 0.03 | 107.4 | 120 | 289 |
| Chatcolet Lake DP | 2998 | ASBH | 7/21/98 | 12:25:45 | 6.8 | 8 | 3.6 | 9.15 | 23.22 | 8.13 | 49.8 | 0.03 | 106.7 | 128 | 293 |
| Chatcolet Lake DP | 2998 | ASBH | 7/21/98 | 12:25:45 | 6.8 | 7 | 4.6 | 9.16 | 22.63 | 7.86 | 49 | 0.03 | 105.7 | 121 | 302 |
| Chatcolet Lake DP | 2998 | ASBH | 7/21/98 | 12:25:45 | 6.8 | 6 | 5.6 | 9.15 | 19.82 | 7.21 | 45.9 | 0.03 | 100 | 102 | 315 |
| Chatcolet Lake DP | 2998 | ASBH | 7/21/98 | 12:25:45 | 6.8 | 5 | 6.6 | 7.22 | 16.49 | 6.78 | 43.3 | 0.03 | 73.7 | 120 | 322 |
| Chatcolet Lake DP | 2998 | ASBH | 7/21/98 | 12:25:45 | 6.8 | 4 | 7.6 | 5.34 | 13.88 | 6.57 | 42.4 | 0.03 | 51.5 | 120 | 324 |
| Chatcolet Lake DP | 2998 | ASBH | 7/21/98 | 12:25:45 | 6.8 | 3 | 8.6 | 3.24 | 13.02 | 6.48 | 43.9 | 0.03 | 30.7 | 122 | 323 |
| Chatcolet Lake DP | 2998 | ASBH | 7/21/98 | 12:25:45 | 6.8 | 2 | 9.6 | 1.63 | 12.25 | 6.45 | 46 | 0.03 | 15.1 | 130 | 320 |
| Chatcolet Lake DP | 2998 | ASBH | 7/21/98 | 12:25:45 | 6.8 | 1 | 10.6 | 0.97 | 12.44 | 6.49 | 47.9 | 0.03 | 9 | 528 | 317 |
| Chatcolet Lake DP | 3298 | DBAS | 8/11/98 | 9:27:45 | 4.8 | 11 | 0.3 | 9.4 | 23.84 | 8.81 | 54.5 | 0.03 | 110.8 | 35 | 245 |
| Chatcolet Lake DP | 3298 | DBAS | 8/11/98 | 9:27:45 | 4.8 | 10 | 1.3 | 9.49 | 23.76 | 8.84 | 54.6 | 0.03 | 111.8 | 213 | 243 |
| Chatcolet Lake DP | 3298 | DBAS | 8/11/98 | 9:27:45 | 4.8 | 9 | 2.3 | 9.62 | 23.6 | 8.9 | 55 | 0.04 | 112.9 | 53 | 234 |
| Chatcolet Lake DP | 3298 | DBAS | 8/11/98 | 9:27:45 | 4.8 | 8 | 3.3 | 9.6 | 23.55 | 8.86 | 55 | 0.04 | 112.5 | 58 | 231 |
| Chatcolet Lake DP | 3298 | DBAS | 8/11/98 | 9:27:45 | 4.8 | 7 | 4.4 | 9.42 | 23.38 | 8.78 | 54.2 | 0.03 | 110.1 | 120 | 228 |
| Chatcolet Lake DP | 3298 | DBAS | 8/11/98 | 9:27:45 | 4.8 | 6 | 5.3 | 8.93 | 23.2 | 8.66 | 53.8 | 0.03 | 104 | 325 | 221 |
| Chatcolet Lake DP | 3298 | DBAS | 8/11/98 | 9:27:45 | 4.8 | 5 | 6.4 | 5.71 | 18.37 | 6.71 | 46.6 | 0.03 | 60.6 | 212 | 238 |
| Chatcolet Lake DP | 3298 | DBAS | 8/11/98 | 9:27:45 | 4.8 | 4 | 7.4 | 2.52 | 15.69 | 6.54 | 46.5 | 0.03 | 25.3 | 235 | 212 |
| Chatcolet Lake DP | 3298 | DBAS | 8/11/98 | 9:27:45 | 4.8 | 3 | 8.4 | 0.79 | 14.32 | 6.51 | 48.6 | 0.03 | 7.7 | 130 | 167 |
| Chatcolet Lake DP | 3298 | DBAS | 8/11/98 | 9:27:45 | 4.8 | 2 | 9.4 | 0.16 | 13.28 | 6.55 | 55.3 | 0.04 | 1.5 | 116 | 131 |
| Chatcolet Lake DP | 3298 | DBAS | 8/11/98 | 9:27:45 | 4.8 | 1 | 10.5 | 0.16 | 12.94 | 6.59 | 61.1 | 0.04 | 1.5 | 818 | 118 |
| Chatcolet Lake DP | 3498 | DTAS | 8/26/98 | 13:25:04 | 4.0 | 12 | 0.3 | 8.99 | 21.11 | 8.36 | 51.6 | 0.03 | 100.7 | 26 | 192 |
| Chatcolet Lake DP | 3498 | DTAS | 8/26/98 | 13:25:04 | 4.0 | 11 | 0.9 | 8.92 | 21.12 | 8.3 | 51.7 | 0.03 | 100 | 55 | 192 |
| Chatcolet Lake DP | 3498 | DTAS | 8/26/98 | 13:25:04 | 4.0 | 10 | 1.9 | 8.92 | 21.11 | 8.29 | 51.6 | 0.03 | 99.9 | 59 | 187 |
| Chatcolet Lake DP | 3498 | DTAS | 8/26/98 | 13:25:04 | 4.0 | 9 | 2.9 | 8.92 | 21.01 | 8.22 | 51.5 | 0.03 | 99.7 | 51 | 182 |
| Chatcolet Lake DP | 3498 | DTAS | 8/26/98 | 13:25:04 | 4.0 | 8 | 3.9 | 8.79 | 20.95 | 8.13 | 51.4 | 0.03 | 98.2 | 56 | 177 |
| Chatcolet Lake DP | 3498 | DTAS | 8/26/98 | 13:25:04 | 4.0 | 7 | 4.9 | 8.7 | 20.67 | 7.89 | 51.5 | 0.03 | 96.7 | 115 | 174 |
| Chatcolet Lake DP | 3498 | DTAS | 8/26/98 | 13:25:04 | 4.0 | 6 | 5.9 | 7.11 | 20.08 | 7.27 | 50.9 | 0.03 | 78.1 | 135 | 179 |
| Chatcolet Lake DP | 3498 | DTAS | 8/26/98 | 13:25:04 | 4.0 | 5 | 6.9 | 5.12 | 19.13 | 6.9 | 50.5 | 0.03 | 55.2 | 151 | 157 |
| Chatcolet Lake DP | 3498 | DTAS | 8/26/98 | 13:25:04 | 4.0 | 4 | 7.9 | 0.13 | 15.84 | 6.61 | 53.7 | 0.03 | 1.3 | 118 | 101 |
| Chatcolet Lake DP | 3498 | DTAS | 8/26/98 | 13:25:04 | 4.0 | 3 | 8.9 | 0.16 | 13.73 | 6.66 | 61.6 | 0.04 | 1.5 | 107 | 73 |
| Chatcolet Lake DP | 3498 | DTAS | 8/26/98 | 13:25:04 | 4.0 | 2 | 9.9 | 0.2 | 13.38 | 6.68 | 66.9 | 0.04 | 1.9 | 46 | 73 |
| Chatcolet Lake DP | 3498 | DTAS | 8/26/98 | 13:25:04 | 4.0 | 1 | 10.9 | 0.23 | 13 | 6.68 | 73.2 | 0.05 | 2.2 | 212 | 77 |
| Chatcolet Lake DP | 3598 | DTAS | 9/2/98 | 13:51:50 | 6.1 | 12 | 0.3 | 9.23 | 22.17 | 8.35 | 57.8 | 0.04 | 106.1 | 35 | 205 |

| | | | | | | | | | | | | | | | |
|-------------------|------|--------|----------|----------|-----|----|------|------|-------|------|------|------|-------|------|-----|
| Chatcolet Lake DP | 3598 | DTAS | 9/2/98 | 13:51:50 | 6.1 | 11 | 1 | 9.3 | 21.74 | 8.38 | 58 | 0.04 | 106.1 | 140 | 202 |
| Chatcolet Lake DP | 3598 | DTAS | 9/2/98 | 13:51:50 | 6.1 | 10 | 1.9 | 9.24 | 21.49 | 8.34 | 57.8 | 0.04 | 104.9 | 142 | 198 |
| Chatcolet Lake DP | 3598 | DTAS | 9/2/98 | 13:51:50 | 6.1 | 9 | 2.9 | 9.07 | 21.04 | 8.25 | 57.3 | 0.04 | 102.1 | 153 | 193 |
| Chatcolet Lake DP | 3598 | DTAS | 9/2/98 | 13:51:50 | 6.1 | 8 | 3.9 | 8.92 | 20.9 | 8.09 | 57.1 | 0.04 | 100.2 | 140 | 188 |
| Chatcolet Lake DP | 3598 | DTAS | 9/2/98 | 13:51:50 | 6.1 | 7 | 4.9 | 7.84 | 20.63 | 7.65 | 56.5 | 0.04 | 87.6 | 235 | 190 |
| Chatcolet Lake DP | 3598 | DTAS | 9/2/98 | 13:51:50 | 6.1 | 6 | 5.9 | 7.39 | 20.32 | 7.27 | 56.6 | 0.04 | 82 | 145 | 176 |
| Chatcolet Lake DP | 3598 | DTAS | 9/2/98 | 13:51:50 | 6.1 | 5 | 6.9 | 2.71 | 19.35 | 6.84 | 55.3 | 0.04 | 29.5 | 129 | 135 |
| Chatcolet Lake DP | 3598 | DTAS | 9/2/98 | 13:51:50 | 6.1 | 4 | 7.9 | 0.1 | 16.96 | 6.71 | 61.7 | 0.04 | 1.1 | 120 | 74 |
| Chatcolet Lake DP | 3598 | DTAS | 9/2/98 | 13:51:50 | 6.1 | 3 | 8.9 | 0.11 | 14.47 | 6.74 | 70.2 | 0.04 | 1.1 | 220 | 42 |
| Chatcolet Lake DP | 3598 | DTAS | 9/2/98 | 13:51:50 | 6.1 | 2 | 9.9 | 0.14 | 12.87 | 6.82 | 86 | 0.06 | 1.3 | 238 | 36 |
| Chatcolet Lake DP | 3598 | DTAS | 9/2/98 | 13:51:50 | 6.1 | 1 | 10.9 | 0.17 | 12.62 | 6.81 | 92.6 | 0.06 | 1.6 | 345 | 45 |
| | | | | | | | | | | | | | | | |
| Chatcolet Lake DP | 4098 | KBDB | 10/9/98 | 14:29:00 | 2.7 | 12 | 0.3 | 9.63 | 14.91 | 7.82 | 58.4 | 0.04 | 95.2 | 34 | 302 |
| Chatcolet Lake DP | 4098 | KBDB | 10/9/98 | 14:29:00 | 2.7 | 11 | 0.6 | 9.63 | 14.91 | 7.79 | 58.3 | 0.04 | 95.2 | 42 | 303 |
| Chatcolet Lake DP | 4098 | KBDB | 10/9/98 | 14:29:00 | 2.7 | 10 | 1.6 | 9.59 | 14.66 | 7.72 | 58.1 | 0.04 | 94.2 | 57 | 304 |
| Chatcolet Lake DP | 4098 | KBDB | 10/9/98 | 14:29:00 | 2.7 | 9 | 2.6 | 9.17 | 14.53 | 7.62 | 58.1 | 0.04 | 89.9 | 134 | 307 |
| Chatcolet Lake DP | 4098 | KBDB | 10/9/98 | 14:29:00 | 2.7 | 8 | 3.5 | 8.87 | 14.49 | 7.53 | 58.2 | 0.04 | 86.8 | 44 | 308 |
| Chatcolet Lake DP | 4098 | KBDB | 10/9/98 | 14:29:00 | 2.7 | 7 | 4.5 | 8.72 | 14.43 | 7.49 | 58.3 | 0.04 | 85.2 | 50 | 309 |
| Chatcolet Lake DP | 4098 | KBDB | 10/9/98 | 14:29:00 | 2.7 | 6 | 5.6 | 8.53 | 14.38 | 7.48 | 58.7 | 0.04 | 83.2 | 15 | 308 |
| Chatcolet Lake DP | 4098 | KBDB | 10/9/98 | 14:29:00 | 2.7 | 5 | 6.6 | 8.4 | 14.36 | 7.53 | 58.6 | 0.04 | 82 | 52 | 307 |
| Chatcolet Lake DP | 4098 | KBDB | 10/9/98 | 14:29:00 | 2.7 | 4 | 7.4 | 8.44 | 14.35 | 7.61 | 58.4 | 0.04 | 82.4 | 54 | 304 |
| Chatcolet Lake DP | 4098 | KBDB | 10/9/98 | 14:29:00 | 2.7 | 3 | 8.5 | 9 | 14.31 | 7.79 | 58.7 | 0.04 | 87.8 | 108 | 300 |
| Chatcolet Lake DP | 4098 | KBDB | 10/9/98 | 14:29:00 | 2.7 | 2 | 9.5 | 9.11 | 14 | 7.97 | 58.8 | 0.04 | 88.2 | 123 | 297 |
| Chatcolet Lake DP | 4098 | KBDB | 10/9/98 | 14:29:00 | 2.7 | 1 | 10.5 | 8.8 | 13.68 | 8.14 | 58.5 | 0.04 | 84.6 | 358 | 292 |
| | | | | | | | | | | | | | | | |
| Chatcolet Lake DP | 4298 | DTASJB | 10/19/98 | 10:05 | 2.3 | 11 | 0.5 | 9.92 | 11.4 | 7.69 | 57.8 | 0.04 | 89.7 | 48 | 359 |
| Chatcolet Lake DP | 4298 | DTASJB | 10/19/98 | 10:05 | 2.3 | 10 | 1.3 | 9.91 | 11.4 | 7.66 | 57.8 | 0.04 | 89.6 | 37 | 361 |
| Chatcolet Lake DP | 4298 | DTASJB | 10/19/98 | 10:05 | 2.3 | 9 | 2.3 | 10.2 | 11.38 | 7.65 | 57.8 | 0.04 | 91.8 | 11 | 361 |
| Chatcolet Lake DP | 4298 | DTASJB | 10/19/98 | 10:05 | 2.3 | 8 | 3.3 | 9.82 | 11.38 | 7.63 | 58.1 | 0.04 | 88.8 | 48 | 362 |
| Chatcolet Lake DP | 4298 | DTASJB | 10/19/98 | 10:05 | 2.3 | 7 | 4.3 | 9.82 | 11.38 | 7.61 | 58.1 | 0.04 | 88.8 | 37 | 362 |
| Chatcolet Lake DP | 4298 | DTASJB | 10/19/98 | 10:05 | 2.3 | 6 | 5.3 | 9.83 | 11.38 | 7.63 | 58.1 | 0.04 | 88.9 | 44 | 361 |
| Chatcolet Lake DP | 4298 | DTASJB | 10/19/98 | 10:05 | 2.3 | 5 | 6.3 | 9.82 | 11.36 | 7.62 | 57.6 | 0.04 | 88.7 | 41 | 361 |
| Chatcolet Lake DP | 4298 | DTASJB | 10/19/98 | 10:05 | 2.3 | 4 | 7.3 | 9.83 | 11.31 | 7.62 | 57.7 | 0.04 | 88.7 | 44 | 361 |
| Chatcolet Lake DP | 4298 | DTASJB | 10/19/98 | 10:05 | 2.3 | 3 | 8.3 | 9.89 | 0 | 7.64 | 57.8 | 0.04 | 89.1 | 0 | 359 |
| Chatcolet Lake DP | 4298 | DTASJB | 10/19/98 | 10:05 | 2.3 | 2 | 9.3 | 9.92 | 11.2 | 7.64 | 58.1 | 0.04 | 89.3 | 110 | 360 |
| Chatcolet Lake DP | 4298 | DTASJB | 10/19/98 | 10:05 | 2.3 | 1 | 10.3 | 9.82 | 0 | 7.58 | 57.7 | 0.04 | 88.4 | 1837 | 360 |
| | | | | | | | | | | | | | | | |
| Chatcolet Lake DP | 4698 | KBAS | 11/17/98 | 10:40:00 | 2.7 | 11 | 0.5 | 9.87 | 7.25 | 7.96 | 53.5 | 0.03 | 82.6 | 102 | 383 |
| Chatcolet Lake DP | 4698 | KBAS | 11/17/98 | 10:40:00 | 2.7 | 10 | 1.5 | 9.86 | 7.27 | 7.94 | 53.5 | 0.03 | 82.5 | 100 | 384 |
| Chatcolet Lake DP | 4698 | KBAS | 11/17/98 | 10:40:00 | 2.7 | 9 | 2.5 | 9.86 | 7.24 | 7.88 | 53.5 | 0.03 | 82.5 | 104 | 388 |
| Chatcolet Lake DP | 4698 | KBAS | 11/17/98 | 10:40:00 | 2.7 | 8 | 3.5 | 9.84 | 7.22 | 7.86 | 53.3 | 0.03 | 82.3 | 108 | 389 |
| Chatcolet Lake DP | 4698 | KBAS | 11/17/98 | 10:40:00 | 2.7 | 7 | 4.5 | 9.82 | 7.22 | 7.82 | 53.8 | 0.03 | 82.1 | 59 | 390 |
| Chatcolet Lake DP | 4698 | KBAS | 11/17/98 | 10:40:00 | 2.7 | 6 | 5.5 | 9.79 | 7.2 | 7.8 | 53.6 | 0.03 | 81.8 | 54 | 391 |
| Chatcolet Lake DP | 4698 | KBAS | 11/17/98 | 10:40:00 | 2.7 | 5 | 6.5 | 9.8 | 7.17 | 7.79 | 53.6 | 0.03 | 104.1 | 4 | 391 |

| | | | | | | | | | | | | | | | |
|-------------------|------|------|----------|----------|-----|---|-----|------|------|------|------|------|------|-----|-----|
| Chatcolet Lake DP | 4698 | KBAS | 11/17/98 | 10:40:00 | 2.7 | 4 | 6.5 | 9.79 | 0 | 7.78 | 53.8 | 0.03 | 81.8 | 40 | 392 |
| Chatcolet Lake DP | 4698 | KBAS | 11/17/98 | 10:40:00 | 2.7 | 3 | 7.6 | 9.79 | 7.14 | 7.76 | 53.3 | 0.03 | 81.7 | 150 | 392 |
| Chatcolet Lake DP | 4698 | KBAS | 11/17/98 | 10:40:00 | 2.7 | 2 | 8.5 | 9.71 | 7.17 | 7.73 | 53.3 | 0.03 | 81.1 | 120 | 393 |
| Chatcolet Lake DP | 4698 | KBAS | 11/17/98 | 10:40:00 | 2.7 | 1 | 9.5 | 9.75 | 7.1 | 7.7 | 52.9 | 0.03 | 81.3 | 913 | 394 |

| Location | Phase | Samplers | Date | Time | Secchi (m) | Sequence | Depth (m) | Dissolved Oxygen (mg/L) | Temperature (C) | pH | Conductivity (µs/cm) | TDS | Saturated Dissolved Oxygen | Stabilization Time | Redox |
|-------------------|-------|----------|---------|----------|---------------|----------|--------------|-------------------------------|--------------------|------|-------------------------|------|----------------------------------|-----------------------|-------|
| Chatcolet Lake SH | 2098 | ASJLDT | 5/21/98 | 12:15:55 | 0.7 | 4 | 0.3 | 11.8 | 9.35 | 6.95 | 35 | 0.02 | 102.8 | 47 | 407 |
| Chatcolet Lake SH | 2098 | ASJLDT | 5/21/98 | 12:15:55 | 0.7 | 3 | 0.3 | 11.8 | 9.35 | 6.96 | 35 | 0.02 | 102.7 | 109 | 408 |
| Chatcolet Lake SH | 2098 | ASJLDT | 5/21/98 | 12:15:55 | 0.7 | 2 | 0.7 | 11.8 | 9.37 | 6.98 | 35.7 | 0.02 | 103.1 | 122 | 409 |
| Chatcolet Lake SH | 2098 | ASJLDT | 5/21/98 | 12:15:55 | 0.7 | 1 | 0.7 | 11.9 | 9.37 | 6.9 | 35.2 | 0.02 | 103.9 | 203 | 415 |
| Chatcolet Lake SH | 2398 | DTJLAS | 6/8/98 | 15:18:55 | 0.7 | 4 | 0.3 | 10.8 | 12.77 | 7.28 | 39.3 | 0.03 | 102.2 | 25 | 365 |
| Chatcolet Lake SH | 2398 | DTJLAS | 6/8/98 | 15:18:55 | 0.7 | 3 | 0.3 | 10.8 | 12.79 | 7.27 | 39.3 | 0.03 | 102 | 32 | 365 |
| Chatcolet Lake SH | 2398 | DTJLAS | 6/8/98 | 15:18:55 | 0.7 | 2 | 0.7 | 10.8 | 12.79 | 7.26 | 39.3 | 0.03 | 102.2 | 54 | 373 |
| Chatcolet Lake SH | 2398 | DTJLAS | 6/8/98 | 15:18:55 | 0.7 | 1 | 0.7 | 11 | 12.77 | 7.24 | 39.3 | 0.03 | 103.4 | 155 | 375 |
| Chatcolet Lake SH | 2598 | DTASBH | 6/22/98 | 12:03 | 0.8 | 4 | 0.2 | 10.1 | 16.16 | 7.3 | 43.8 | 0.03 | 102.8 | 57 | 320 |
| Chatcolet Lake SH | 2598 | DTASBH | 6/22/98 | 12:03 | 0.8 | 3 | 0.2 | 10.1 | | 7.31 | 43.7 | 0.03 | 102.8 | 246 | 316 |
| Chatcolet Lake SH | 2598 | DTASBH | 6/22/98 | 12:03 | 0.8 | 2 | 0.8 | 10.2 | 16.17 | 7.3 | 43.8 | 0.03 | 103.4 | 709 | 339 |
| Chatcolet Lake SH | 2598 | DTASBH | 6/22/98 | 12:03 | 0.8 | 1 | 0.8 | 10.4 | 16.29 | 7.25 | 43.7 | 0.03 | 105.6 | 142 | 333 |
| Chatcolet Lake SH | 2798 | DTASBH | 7/7/98 | 10:37:02 | 0.8 | 4 | 0.3 | 11.3 | 22.86 | 9.01 | 52.1 | 0.03 | 130.6 | 101 | 302 |
| Chatcolet Lake SH | 2798 | DTASBH | 7/7/98 | 10:37:02 | 0.8 | 3 | 0.3 | 11.4 | 22.65 | 9.02 | 52.2 | 0.03 | 131.3 | 137 | 303 |
| Chatcolet Lake SH | 2798 | DTASBH | 7/7/98 | 10:37:02 | 0.8 | 2 | 0.8 | 11.8 | 22.15 | 8.95 | 52.4 | 0.03 | 134.3 | 102 | 308 |
| Chatcolet Lake SH | 2798 | DTASBH | 7/7/98 | 10:37:02 | 0.8 | 1 | 0.8 | 11.6 | 22.06 | 8.88 | 52.2 | 0.03 | 132.5 | 510 | 314 |
| Chatcolet Lake SH | 2998 | ASBH | 7/21/98 | 12:09:39 | 0.9 | 4 | 0.3 | 12.1 | 26.62 | 9.3 | 56.2 | 0.04 | 149.7 | 56 | 259 |
| Chatcolet Lake SH | 2998 | ASBH | 7/21/98 | 12:09:39 | 0.9 | 3 | 0.3 | 11.9 | 26.43 | 9.3 | 56.4 | 0.04 | 146.9 | 57 | 257 |
| Chatcolet Lake SH | 2998 | ASBH | 7/21/98 | 12:09:39 | 0.9 | 2 | 0.8 | 12.1 | 22.66 | 9.02 | 54.3 | 0.03 | 139.8 | 159 | 266 |
| Chatcolet Lake SH | 2998 | ASBH | 7/21/98 | 12:09:39 | 0.9 | 1 | 0.9 | 12.6 | 23.06 | 9.34 | 54.2 | 0.03 | 146 | 249 | 261 |
| Chatcolet Lake SH | 3298 | DBAS | 8/11/98 | 9:53:29 | 0.9 | 3 | 0.3 | 8.63 | 23.31 | 8.12 | 62.3 | 0.04 | 100.7 | 57 | 280 |
| Chatcolet Lake SH | 3298 | DBAS | 8/11/98 | 9:53:29 | 0.9 | 2 | 0.6 | 8.32 | 23.11 | 7.83 | 62.3 | 0.04 | 96.8 | 110 | 284 |
| Chatcolet Lake SH | 3298 | DBAS | 8/11/98 | 9:53:29 | 0.9 | 1 | 0.9 | 7.92 | 22.86 | 7.62 | 63.1 | 0.04 | 91.8 | 232 | 287 |
| Chatcolet Lake SH | 3498 | DTAS | 8/27/98 | 8:52:58 | 1.0 | 4 | 0.3 | 8.05 | 20.02 | 7.28 | 59.2 | 0.04 | 88.3 | 28 | 237 |
| Chatcolet Lake SH | 3498 | DTAS | 8/27/98 | 8:52:58 | 1.0 | 3 | 0.3 | 8.05 | 20.06 | 7.25 | 59.3 | 0.04 | 88.3 | 104 | 237 |
| Chatcolet Lake SH | 3498 | DTAS | 8/27/98 | 8:52:58 | 1.0 | 2 | 1 | 8.04 | 20.04 | 7.3 | 59 | 0.04 | 88.2 | 48 | 232 |
| Chatcolet Lake SH | 3498 | DTAS | 8/27/98 | 8:52:58 | 1.0 | 1 | 1 | 8.11 | 19.94 | 7.27 | 59.1 | 0.04 | 88.8 | 103 | 235 |
| Chatcolet Lake SH | 3598 | DTAS | 9/3/98 | 11:06:09 | 0.8 | 4 | 0.2 | 10.3 | 22.34 | 8.62 | 64.7 | 0.04 | 119 | 51 | 225 |
| Chatcolet Lake SH | 3598 | DTAS | 9/3/98 | 11:06:09 | 0.8 | 3 | 0.2 | 10.2 | 22.33 | 8.59 | 64.5 | 0.04 | 117.8 | 57 | 223 |

| | | | | | | | | | | | | | | | |
|-------------------|------|--------|----------|----------|-----|---|-----|------|-------|------|------|------|-------|-----|-----|
| Chatcolet Lake SH | 3598 | DTAS | 9/3/98 | 11:06:09 | 0.8 | 2 | 0.8 | 10.4 | 21.92 | 8.45 | 64.6 | 0.04 | 119.1 | 114 | 218 |
| Chatcolet Lake SH | 3598 | DTAS | 9/3/98 | 11:06:09 | 0.8 | 1 | 0.8 | 10.3 | 21.95 | 8.37 | 64.5 | 0.04 | 118.2 | 325 | 215 |
| | | | | | | | | | | | | | | | |
| Chatcolet Lake SH | 4098 | KBDB | 10/9/98 | 14:10:00 | 1.1 | 3 | 0.3 | 9.54 | 14.06 | 7.47 | 61.9 | 0.04 | 92.5 | 103 | 307 |
| Chatcolet Lake SH | 4098 | KBDB | 10/9/98 | 14:10:00 | 1.1 | 2 | 0.7 | 9.9 | 13.93 | 7.49 | 61.7 | 0.04 | 95.7 | 120 | 308 |
| Chatcolet Lake SH | 4098 | KBDB | 10/9/98 | 14:10:00 | 1.1 | 1 | 1.1 | 10.2 | 13.72 | 7.5 | 61.4 | 0.04 | 98.1 | 29 | 309 |
| | | | | | | | | | | | | | | | |
| Chatcolet Lake SH | 4298 | DTASJB | 10/19/98 | 10:13:52 | 0.9 | 3 | 0.9 | 13.7 | 8.37 | 9.36 | 59.8 | 0.04 | 115.2 | 107 | 313 |
| Chatcolet Lake SH | 4298 | DTASJB | 10/19/98 | 10:13:52 | 0.9 | 2 | 0.9 | 13.7 | | 9.33 | 59.7 | 0.04 | 115.3 | 56 | 314 |
| Chatcolet Lake SH | 4298 | DTASJB | 10/19/98 | 10:13:52 | 0.9 | 1 | 0.9 | 13.7 | 8.29 | 9.33 | 59.9 | 0.04 | 115.3 | 158 | 314 |

| Location | Phase | Samplers | Date | Time | Secchi (m) | Sequence | Depth (m) | Dissolved Oxygen (mg/L) | Temperature (C) | pH | Conductivity (µs/cm) | TDS | Saturated Dissolved Oxygen | Stabilization Time | Redox |
|--------------|-------|----------|---------|----------|---------------|----------|--------------|-------------------------------|--------------------|------|-------------------------|------|----------------------------------|-----------------------|-------|
| Benewah Lake | 1398 | DBRP | 4/3/98 | 12:37:53 | 0.95 | 10 | 0.2 | 11.88 | 10.32 | 6.95 | 34.2 | 0.02 | 106.5 | 43 | 395 |
| Benewah Lake | 1398 | DBRP | 4/3/98 | 12:37:53 | 0.95 | 9 | 0.5 | 11.77 | 10.3 | 7.09 | 34.1 | 0.02 | 105.6 | 114 | 388 |
| Benewah Lake | 1398 | DBRP | 4/3/98 | 12:37:53 | 0.95 | 8 | 1 | 11.75 | 10.25 | 7.12 | 34.1 | 0.02 | 105.2 | 52 | 386 |
| Benewah Lake | 1398 | DBRP | 4/3/98 | 12:37:53 | 0.95 | 7 | 1.5 | 11.72 | 10.25 | 6.96 | 33.9 | 0.02 | 105 | 120 | 394 |
| Benewah Lake | 1398 | DBRP | 4/3/98 | 12:37:53 | 0.95 | 6 | 2 | 11.44 | 9.82 | 6.98 | 34.1 | 0.02 | 101.4 | 125 | 391 |
| Benewah Lake | 1398 | DBRP | 4/3/98 | 12:37:53 | 0.95 | 5 | 2.5 | 11.48 | 8.78 | 6.93 | 33.9 | 0.02 | 99.2 | 54 | 392 |
| Benewah Lake | 1398 | DBRP | 4/3/98 | 12:37:53 | 0.95 | 4 | 3 | 11.3 | 8.47 | 6.91 | 33.9 | 0.02 | 97 | 58 | 391 |
| Benewah Lake | 1398 | DBRP | 4/3/98 | 12:37:53 | 0.95 | 3 | 3.5 | 11.26 | 8.35 | 6.81 | 34 | 0.02 | 96.4 | 49 | 395 |
| Benewah Lake | 1398 | DBRP | 4/3/98 | 12:37:53 | 0.95 | 2 | 4 | 11.13 | 8.17 | 6.78 | 33.9 | 0.02 | 94.8 | 107 | 396 |
| Benewah Lake | 1398 | DBRP | 4/3/98 | 12:37:53 | 0.95 | 1 | 4.4 | 10.68 | 7.76 | 6.72 | 34.1 | 0.02 | 90.1 | 214 | 403 |
| | | | | | | | | | | | | | | | |
| Benewah Lake | 1698 | DBASRP | 4/21/98 | 11:47:22 | 1.0 | 8 | 0.3 | 10.84 | 14.46 | 6.96 | 36.8 | 0.02 | 106 | 222 | 384 |
| Benewah Lake | 1698 | DBASRP | 4/21/98 | 11:47:22 | 1.0 | 7 | 1 | 10.84 | 12.38 | 6.82 | 36.4 | 0.02 | 101.2 | 237 | 398 |
| Benewah Lake | 1698 | DBASRP | 4/21/98 | 11:47:22 | 1.0 | 6 | 1.5 | 10.81 | 12.05 | 6.9 | 36.4 | 0.02 | 100.2 | 202 | 391 |
| Benewah Lake | 1698 | DBASRP | 4/21/98 | 11:47:22 | 1.0 | 5 | 2 | 10.64 | 11.76 | 6.82 | 36.5 | 0.02 | 97.9 | 212 | 392 |
| Benewah Lake | 1698 | DBASRP | 4/21/98 | 11:47:22 | 1.0 | 4 | 2.5 | 10.53 | 11.29 | 6.75 | 36.3 | 0.02 | 95.9 | 104 | 389 |
| Benewah Lake | 1698 | DBASRP | 4/21/98 | 11:47:22 | 1.0 | 3 | 3 | 10.09 | 10.18 | 6.6 | 36.7 | 0.02 | 89.5 | 140 | 392 |
| Benewah Lake | 1698 | DBASRP | 4/21/98 | 11:47:22 | 1.0 | 2 | 3.5 | 9.31 | 9.26 | 6.56 | 36.8 | 0.02 | 80.8 | 204 | 390 |
| Benewah Lake | 1698 | DBASRP | 4/21/98 | 11:47:22 | 1.0 | 1 | 4 | 7.42 | 8.82 | 6.53 | 37.1 | 0.02 | 63.7 | 302 | 400 |
| | | | | | | | | | | | | | | | |
| Benewah Lake | 2098 | ASJLDT | 5/21/98 | 13:35:46 | 3.2 | 9 | 0.4 | 10.3 | 15.33 | 7.01 | 37.1 | 0.02 | 103.1 | 35 | 408 |
| Benewah Lake | 2098 | ASJLDT | 5/21/98 | 13:35:46 | 3.2 | 8 | 1 | 10.28 | 15.21 | 7.01 | 37.1 | 0.02 | 102.7 | 39 | 408 |
| Benewah Lake | 2098 | ASJLDT | 5/21/98 | 13:35:46 | 3.2 | 7 | 1.5 | 10.27 | 15.14 | 7.01 | 37.1 | 0.02 | 102.5 | 58 | 407 |
| Benewah Lake | 2098 | ASJLDT | 5/21/98 | 13:35:46 | 3.2 | 6 | 2 | 10.27 | 15.09 | 6.98 | 37.2 | 0.02 | 102.3 | 48 | 407 |
| Benewah Lake | 2098 | ASJLDT | 5/21/98 | 13:35:46 | 3.2 | 5 | 2.5 | 9.62 | 13.77 | 6.71 | 38.1 | 0.02 | 93.1 | 57 | 419 |
| Benewah Lake | 2098 | ASJLDT | 5/21/98 | 13:35:46 | 3.2 | 4 | 3 | 9.71 | 12.2 | 6.73 | 37.4 | 0.02 | 90.7 | 125 | 414 |
| Benewah Lake | 2098 | ASJLDT | 5/21/98 | 13:35:46 | 3.2 | 3 | 3.5 | 8.55 | 11.41 | 6.52 | 37.8 | 0.02 | 78.5 | 57 | 420 |
| Benewah Lake | 2098 | ASJLDT | 5/21/98 | 13:35:46 | 3.2 | 2 | 4 | 7.96 | 11.07 | 6.52 | 38.7 | 0.02 | 72.4 | 427 | 418 |
| Benewah Lake | 2098 | ASJLDT | 5/21/98 | 13:35:46 | 3.2 | 1 | 4.5 | 5 | 10.51 | 6.21 | 40.1 | 0.03 | 44.9 | 331 | 429 |

| | | | | | | | | | | | | | | | |
|--------------|------|--------|---------|----------|-----|----|-----|-------|-------|------|------|------|-------|-----|-----|
| Benewah Lake | 2398 | DTJLAS | 6/8/98 | 15:00:18 | 1.4 | 10 | 0.4 | 9.88 | 19.44 | 7.32 | 40.3 | 0.03 | 107.5 | 28 | 365 |
| Benewah Lake | 2398 | DTJLAS | 6/8/98 | 15:00:18 | 1.4 | 9 | 1 | 9.82 | 17.07 | 7.25 | 39.9 | 0.03 | 101.8 | 39 | 369 |
| Benewah Lake | 2398 | DTJLAS | 6/8/98 | 15:00:18 | 1.4 | 8 | 1.5 | 9.77 | 15.99 | 7.09 | 39.9 | 0.03 | 99.1 | 44 | 374 |
| Benewah Lake | 2398 | DTJLAS | 6/8/98 | 15:00:18 | 1.4 | 7 | 2 | 9.55 | 13.82 | 6.93 | 39.1 | 0.03 | 92.4 | 28 | 377 |
| Benewah Lake | 2398 | DTJLAS | 6/8/98 | 15:00:18 | 1.4 | 6 | 2.5 | 8.69 | 13.09 | 6.82 | 38.9 | 0.02 | 82.7 | 35 | 379 |
| Benewah Lake | 2398 | DTJLAS | 6/8/98 | 15:00:18 | 1.4 | 5 | 3 | 7.03 | 11.87 | 6.68 | 38.7 | 0.02 | 65 | 110 | 381 |
| Benewah Lake | 2398 | DTJLAS | 6/8/98 | 15:00:18 | 1.4 | 4 | 3.5 | 6.5 | 10.66 | 6.61 | 38.9 | 0.02 | 58.5 | 21 | 380 |
| Benewah Lake | 2398 | DTJLAS | 6/8/98 | 15:00:18 | 1.4 | 3 | 4 | 6.4 | 10.45 | 6.6 | 38.6 | 0.02 | 57.3 | 42 | 378 |
| Benewah Lake | 2398 | DTJLAS | 6/8/98 | 15:00:18 | 1.4 | 2 | 4.5 | 4.95 | 9.89 | 6.55 | 40 | 0.03 | 43.8 | 135 | 376 |
| Benewah Lake | 2398 | DTJLAS | 6/8/98 | 15:00:18 | 1.4 | 1 | 4.8 | 4.13 | 9.84 | 6.56 | 41 | 0.03 | 36.4 | 205 | 388 |
| Benewah Lake | 2598 | DTASBH | 6/22/98 | 10:35 | 2.8 | 8 | 0.4 | 10.17 | 20.46 | 7.71 | 40.9 | 0.03 | 112.9 | 38 | 330 |
| Benewah Lake | 2598 | DTASBH | 6/22/98 | 10:35 | 2.8 | 7 | 1 | 10.41 | 19.56 | 7.69 | 40.8 | 0.03 | 113.5 | 126 | 331 |
| Benewah Lake | 2598 | DTASBH | 6/22/98 | 10:35 | 2.8 | 6 | 1.5 | 10.87 | 17.71 | 7.55 | 40.8 | 0.03 | 114.3 | 203 | 334 |
| Benewah Lake | 2598 | DTASBH | 6/22/98 | 10:35 | 2.8 | 5 | 2 | 10.53 | 16.95 | 7.36 | 41 | 0.03 | 109 | 208 | 336 |
| Benewah Lake | 2598 | DTASBH | 6/22/98 | 10:35 | 2.8 | 4 | 2.5 | 10.42 | 15.99 | 7.22 | 41.1 | 0.03 | 105.6 | 201 | 336 |
| Benewah Lake | 2598 | DTASBH | 6/22/98 | 10:35 | 2.8 | 3 | 3 | 10.39 | 15.47 | 7.18 | 41.2 | 0.03 | 104.2 | 232 | 335 |
| Benewah Lake | 2598 | DTASBH | 6/22/98 | 10:35 | 2.8 | 2 | 3.5 | 7.77 | 14.18 | 6.79 | 40.3 | 0.03 | 75.7 | 320 | 336 |
| Benewah Lake | 2598 | DTASBH | 6/22/98 | 10:35 | 2.8 | 1 | 4.5 | 0.38 | 11.25 | 6.29 | 50.4 | 0.03 | 3.5 | 519 | 332 |
| Benewah Lake | 2798 | DTASBH | 7/7/98 | 6:47:21 | 3.2 | 10 | 0.3 | 10.28 | 23.49 | 8.55 | 49.7 | 0.03 | 120.5 | 40 | 356 |
| Benewah Lake | 2798 | DTASBH | 7/7/98 | 6:47:21 | 3.2 | 9 | 0.7 | 10.19 | 23.15 | 8.49 | 49.3 | 0.03 | 118.6 | 111 | 358 |
| Benewah Lake | 2798 | DTASBH | 7/7/98 | 6:47:21 | 3.2 | 8 | 1.2 | 10.12 | 22.93 | 8.44 | 49.4 | 0.03 | 117.3 | 48 | 359 |
| Benewah Lake | 2798 | DTASBH | 7/7/98 | 6:47:21 | 3.2 | 7 | 1.7 | 10.2 | 22.52 | 8.25 | 50.1 | 0.03 | 117.3 | 125 | 365 |
| Benewah Lake | 2798 | DTASBH | 7/7/98 | 6:47:21 | 3.2 | 6 | 2.2 | 10.85 | 21.85 | 8.21 | 49.9 | 0.03 | 123.2 | 107 | 366 |
| Benewah Lake | 2798 | DTASBH | 7/7/98 | 6:47:21 | 3.2 | 5 | 2.7 | 11 | 20.35 | 7.76 | 50.1 | 0.03 | 121.3 | 140 | 372 |
| Benewah Lake | 2798 | DTASBH | 7/7/98 | 6:47:21 | 3.2 | 4 | 3.2 | 10.47 | 18.18 | 7.41 | 48.5 | 0.03 | 110.6 | 153 | 375 |
| Benewah Lake | 2798 | DTASBH | 7/7/98 | 6:47:21 | 3.2 | 3 | 3.7 | 10.6 | 15.96 | 7.37 | 47.3 | 0.03 | 106.9 | 309 | 369 |
| Benewah Lake | 2798 | DTASBH | 7/7/98 | 6:47:21 | 3.2 | 2 | 4.2 | 3.79 | 13.73 | 6.56 | 50.1 | 0.03 | 36.4 | 204 | 368 |
| Benewah Lake | 2798 | DTASBH | 7/7/98 | 6:47:21 | 3.2 | 1 | 4.7 | 0.31 | 12.44 | 6.35 | 60.1 | 0.04 | 2.9 | 232 | 355 |
| Benewah Lake | 2998 | ASBH | 7/21/98 | 10:47:28 | 4.1 | 10 | 0.3 | 9.2 | 25.92 | 8.41 | 50.1 | 0.03 | 112.8 | 103 | 254 |
| Benewah Lake | 2998 | ASBH | 7/21/98 | 10:47:28 | 4.1 | 9 | 0.8 | 9.22 | 25.86 | 8.41 | 50.1 | 0.03 | 112.9 | 131 | 251 |
| Benewah Lake | 2998 | ASBH | 7/21/98 | 10:47:28 | 4.1 | 8 | 1.3 | 9.28 | 25.36 | 8.47 | 50.3 | 0.03 | 112.6 | 59 | 245 |
| Benewah Lake | 2998 | ASBH | 7/21/98 | 10:47:28 | 4.1 | 7 | 1.8 | 9.59 | 24.9 | 8.53 | 50.1 | 0.03 | 115.4 | 109 | 238 |
| Benewah Lake | 2998 | ASBH | 7/21/98 | 10:47:28 | 4.1 | 6 | 2.3 | 9.24 | 24.64 | 8.45 | 50.1 | 0.03 | 110.7 | 20 | 232 |
| Benewah Lake | 2998 | ASBH | 7/21/98 | 10:47:28 | 4.1 | 5 | 2.8 | 9.22 | 24.35 | 8.51 | 50.2 | 0.03 | 109.9 | 110 | 218 |
| Benewah Lake | 2998 | ASBH | 7/21/98 | 10:47:28 | 4.1 | 4 | 3.5 | 10.19 | 20.83 | 7.63 | 48.2 | 0.03 | 113.5 | 113 | 229 |
| Benewah Lake | 2998 | ASBH | 7/21/98 | 10:47:28 | 4.1 | 3 | 3.8 | 10.48 | 18.85 | 7.86 | 46.8 | 0.03 | 112.4 | 115 | 209 |
| Benewah Lake | 2998 | ASBH | 7/21/98 | 10:47:28 | 4.1 | 2 | 4.3 | 9.77 | 16.69 | 7.75 | 49.5 | 0.03 | 100.2 | 248 | 199 |
| Benewah Lake | 2998 | ASBH | 7/21/98 | 10:47:28 | 4.1 | 1 | 4.8 | 0.35 | 13.6 | 6.48 | 69.4 | 0.04 | 3.3 | 314 | 186 |
| Benewah Lake | 3298 | DBAS | 8/11/98 | 11:35:09 | 2.7 | 10 | 0.4 | 10.35 | 25.42 | 9.11 | 54.8 | 0.04 | 125.5 | 101 | 248 |
| Benewah Lake | 3298 | DBAS | 8/11/98 | 11:35:09 | 2.7 | 9 | 0.9 | 10.77 | 23.91 | 9.17 | 54.5 | 0.03 | 127.1 | 102 | 245 |

| | | | | | | | | | | | | | | | |
|--------------|------|------|---------|----------|-----|----|-----|-------|-------|------|------|------|-------|-----|-----|
| Benewah Lake | 3298 | DBAS | 8/11/98 | 11:35:09 | 2.7 | 8 | 1.4 | 10.7 | 23.6 | 9.14 | 54.5 | 0.03 | 125.6 | 40 | 240 |
| Benewah Lake | 3298 | DBAS | 8/11/98 | 11:35:09 | 2.7 | 7 | 1.9 | 10.51 | 23.53 | 9.09 | 54.4 | 0.03 | 123.2 | 54 | 238 |
| Benewah Lake | 3298 | DBAS | 8/11/98 | 11:35:09 | 2.7 | 6 | 2.4 | 10.6 | 23.47 | 9.1 | 54.4 | 0.03 | 124.2 | 52 | 231 |
| Benewah Lake | 3298 | DBAS | 8/11/98 | 11:35:09 | 2.7 | 5 | 2.9 | 10.42 | 23.37 | 9.01 | 54.1 | 0.03 | 121.8 | 58 | 225 |
| Benewah Lake | 3298 | DBAS | 8/11/98 | 11:35:09 | 2.7 | 4 | 3.4 | 9.89 | 23.15 | 8.74 | 53.8 | 0.03 | 115.1 | 108 | 219 |
| Benewah Lake | 3298 | DBAS | 8/11/98 | 11:35:09 | 2.7 | 3 | 3.9 | 9 | 22.75 | 7.65 | 53.7 | 0.03 | 104 | 128 | 230 |
| Benewah Lake | 3298 | DBAS | 8/11/98 | 11:35:09 | 2.7 | 2 | 4.4 | 4.94 | 19.14 | 6.9 | 56.8 | 0.04 | 53.2 | 321 | 248 |
| Benewah Lake | 3298 | DBAS | 8/11/98 | 11:35:09 | 2.7 | 1 | 4.9 | 0.17 | 17.42 | 6.57 | 69 | 0.04 | 1.8 | 359 | 196 |
| Benewah Lake | 3498 | DTAS | 8/27/98 | 9:04:12 | 3.3 | 10 | 0.4 | 9.3 | 20.88 | 8.53 | 52 | 0.03 | 103.7 | 31 | 224 |
| Benewah Lake | 3498 | DTAS | 8/27/98 | 9:04:12 | 3.3 | 9 | 1 | 9.29 | 20.67 | 8.49 | 51.9 | 0.03 | 103.2 | 108 | 226 |
| Benewah Lake | 3498 | DTAS | 8/27/98 | 9:04:12 | 3.3 | 8 | 1.5 | 9.24 | 20.62 | 8.47 | 51.8 | 0.03 | 102.6 | 49 | 222 |
| Benewah Lake | 3498 | DTAS | 8/27/98 | 9:04:12 | 3.3 | 7 | 2 | 9.32 | 20.56 | 8.47 | 51.8 | 0.03 | 103.4 | 49 | 218 |
| Benewah Lake | 3498 | DTAS | 8/27/98 | 9:04:12 | 3.3 | 6 | 2.5 | 9.38 | 20.48 | 8.44 | 52.2 | 0.03 | 103.7 | 112 | 214 |
| Benewah Lake | 3498 | DTAS | 8/27/98 | 9:04:12 | 3.3 | 5 | 3 | 8.95 | 20.28 | 8.04 | 52.2 | 0.03 | 98.7 | 111 | 216 |
| Benewah Lake | 3498 | DTAS | 8/27/98 | 9:04:12 | 3.3 | 4 | 3.5 | 8.71 | 20.23 | 7.76 | 52.6 | 0.03 | 95.9 | 128 | 220 |
| Benewah Lake | 3498 | DTAS | 8/27/98 | 9:04:12 | 3.3 | 3 | 4 | 7.72 | 20.04 | 7.28 | 52.9 | 0.03 | 84.7 | 124 | 225 |
| Benewah Lake | 3498 | DTAS | 8/27/98 | 9:04:12 | 3.3 | 2 | 4.5 | 2.98 | 19.71 | 6.79 | 54.8 | 0.04 | 32.4 | 223 | 218 |
| Benewah Lake | 3498 | DTAS | 8/27/98 | 9:04:12 | 3.3 | 1 | 4.9 | 0.14 | 18.46 | 6.6 | 75.7 | 0.05 | 1.4 | 322 | 163 |
| Benewah Lake | 3598 | DTAS | 9/3/98 | 11:34:53 | 4.1 | 9 | 0.4 | 9.9 | 22.22 | 8.5 | 57.9 | 0.04 | 114 | 101 | 228 |
| Benewah Lake | 3598 | DTAS | 9/3/98 | 11:34:53 | 4.1 | 8 | 1 | 9.87 | 21.76 | 8.41 | 57.9 | 0.04 | 112.6 | 41 | 224 |
| Benewah Lake | 3598 | DTAS | 9/3/98 | 11:34:53 | 4.1 | 7 | 1.5 | 9.85 | 21.46 | 8.35 | 57.7 | 0.04 | 111.8 | 58 | 221 |
| Benewah Lake | 3598 | DTAS | 9/3/98 | 11:34:53 | 4.1 | 6 | 2 | 9.56 | 21.37 | 8.13 | 57.6 | 0.04 | 108.3 | 103 | 221 |
| Benewah Lake | 3598 | DTAS | 9/3/98 | 11:34:53 | 4.1 | 5 | 2.5 | 9.44 | 21.23 | 7.93 | 57.7 | 0.04 | 106.6 | 102 | 220 |
| Benewah Lake | 3598 | DTAS | 9/3/98 | 11:34:53 | 4.1 | 4 | 3 | 9.22 | 21.09 | 7.66 | 57.5 | 0.04 | 103.8 | 41 | 221 |
| Benewah Lake | 3598 | DTAS | 9/3/98 | 11:34:53 | 4.1 | 3 | 3.5 | 9.07 | 20.93 | 7.57 | 57.7 | 0.04 | 101.9 | 124 | 218 |
| Benewah Lake | 3598 | DTAS | 9/3/98 | 11:34:53 | 4.1 | 2 | 4 | 8.84 | 20.53 | 7.52 | 58.9 | 0.04 | 98.6 | 241 | 204 |
| Benewah Lake | 3598 | DTAS | 9/3/98 | 11:34:53 | 4.1 | 1 | 4.7 | 2.07 | 19.28 | 6.67 | 69.3 | 0.04 | 22.5 | 329 | 207 |
| Benewah Lake | 4098 | KBDB | 10/9/98 | 13:33:00 | 2.0 | 7 | 0.3 | 9.7 | 13.39 | 7.37 | 55.4 | 0.04 | 92.7 | 120 | 299 |
| Benewah Lake | 4098 | KBDB | 10/9/98 | 13:33:00 | 2.0 | 6 | 1 | 9.47 | 12.96 | 7.34 | 55.3 | 0.04 | 89.5 | 117 | 305 |
| Benewah Lake | 4098 | KBDB | 10/9/98 | 13:33:00 | 2.0 | 5 | 1.6 | 9.2 | 12.89 | 7.27 | 54.9 | 0.04 | 86.9 | 53 | 305 |
| Benewah Lake | 4098 | KBDB | 10/9/98 | 13:33:00 | 2.0 | 4 | 2.2 | 9.23 | 12.81 | 7.27 | 55.2 | 0.04 | 87 | 105 | 304 |
| Benewah Lake | 4098 | KBDB | 10/9/98 | 13:33:00 | 2.0 | 3 | 2.6 | 9.22 | 12.78 | 7.26 | 55.1 | 0.04 | 86.8 | 110 | 303 |
| Benewah Lake | 4098 | KBDB | 10/9/98 | 13:33:00 | 2.0 | 2 | 3.2 | 9.62 | 12.73 | 7.28 | 55.3 | 0.04 | 90.5 | 244 | 302 |
| Benewah Lake | 4098 | KBDB | 10/9/98 | 13:33:00 | 2.0 | 1 | 3.7 | 8.88 | 12.69 | 7.09 | 55.1 | 0.04 | 83.5 | 320 | 301 |

| Location | Phase | Samplers | Date | Time | Secchi (m) | Sequence | Depth (m) | Dissolved Oxygen (mg/L) | Temperature (C) | pH | Conductivity (µS/cm) | TDS | Saturated Dissolved Oxygen | Stabilization Time | Redox |
|---------------|-------|----------|--------|----------|------------|----------|-----------|-------------------------|-----------------|------|----------------------|------|----------------------------|--------------------|-------|
| St. Joe River | 1398 | DBRP | 4/3/98 | 11:51:33 | 3.5 | 12 | 0.4 | 12.6 | 5.98 | 7.03 | 41.8 | 0.03 | 101.7 | 46 | 392 |
| St. Joe River | 1398 | DBRP | 4/3/98 | 11:51:33 | 3.5 | 11 | 2.1 | 12.4 | 5.98 | 7.04 | 41.9 | 0.03 | 100.1 | 629 | 392 |
| St. Joe River | 1398 | DBRP | 4/3/98 | 11:51:33 | 3.5 | 10 | 3.2 | 12.4 | 6 | 7.02 | 41.9 | 0.03 | 100.1 | 458 | 396 |

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|---------------|------|--------|---------|----------|-----|----|------|------|-------|------|------|------|-------|-----|-----|
| St. Joe River | 1398 | DBRP | 4/3/98 | 11:51:33 | 3.5 | 9 | 4.2 | 12.4 | 5.98 | 7.02 | 41.9 | 0.03 | 100.3 | 821 | 398 |
| St. Joe River | 1398 | DBRP | 4/3/98 | 11:51:33 | 3.5 | 8 | 5.1 | 12.7 | 5.97 | 7.03 | 42 | 0.03 | 102.3 | 26 | 402 |
| St. Joe River | 1398 | DBRP | 4/3/98 | 11:51:33 | 3.5 | 7 | 6.1 | 12.6 | 5.97 | 7.04 | 41.9 | 0.03 | 101.8 | 44 | 403 |
| St. Joe River | 1398 | DBRP | 4/3/98 | 11:51:33 | 3.5 | 6 | 7.1 | 12.6 | 5.97 | 7.02 | 41.9 | 0.03 | 101.5 | 50 | 404 |
| St. Joe River | 1398 | DBRP | 4/3/98 | 11:51:33 | 3.5 | 5 | 8.3 | 12.6 | 5.98 | 7.01 | 42 | 0.03 | 101.5 | 104 | 405 |
| St. Joe River | 1398 | DBRP | 4/3/98 | 11:51:33 | 3.5 | 4 | 9.2 | 12.7 | 5.98 | 7.02 | 41.9 | 0.03 | 102.2 | 128 | 406 |
| St. Joe River | 1398 | DBRP | 4/3/98 | 11:51:33 | 3.5 | 3 | 10.3 | 12.7 | 5.97 | 7.02 | 42.1 | 0.03 | 102.1 | 34 | 408 |
| St. Joe River | 1398 | DBRP | 4/3/98 | 11:51:33 | 3.5 | 2 | 11.2 | 12.8 | 5.97 | 7.03 | 42 | 0.03 | 102.8 | 25 | 408 |
| St. Joe River | 1398 | DBRP | 4/3/98 | 11:51:33 | 3.5 | 1 | 12.3 | 12.8 | 5.97 | 7.05 | 42 | 0.03 | 103.4 | 131 | 408 |
| St. Joe River | 1698 | DBASRP | 4/21/98 | 11:16:26 | 4.5 | 11 | 0.4 | 11.8 | 7.94 | 6.97 | 43.7 | 0.03 | 98.7 | 142 | 412 |
| St. Joe River | 1698 | DBASRP | 4/21/98 | 11:16:26 | 4.5 | 10 | 1.3 | 11.8 | 7.92 | 6.93 | 43.7 | 0.03 | 99.1 | 53 | 419 |
| St. Joe River | 1698 | DBASRP | 4/21/98 | 11:16:26 | 4.5 | 9 | 2.2 | 11.8 | 7.94 | 6.92 | 43.8 | 0.03 | 99.2 | 126 | 421 |
| St. Joe River | 1698 | DBASRP | 4/21/98 | 11:16:26 | 4.5 | 8 | 3.3 | 11.8 | 7.94 | 6.93 | 43.7 | 0.03 | 99.2 | 104 | 422 |
| St. Joe River | 1698 | DBASRP | 4/21/98 | 11:16:26 | 4.5 | 7 | 4.3 | 11.8 | 7.91 | 6.93 | 44 | 0.03 | 99.1 | 103 | 424 |
| St. Joe River | 1698 | DBASRP | 4/21/98 | 11:16:26 | 4.5 | 6 | 5.3 | 11.8 | 7.91 | 6.9 | 43.7 | 0.03 | 99.1 | 52 | 427 |
| St. Joe River | 1698 | DBASRP | 4/21/98 | 11:16:26 | 4.5 | 5 | 6.2 | 11.8 | 7.91 | 6.88 | 43.7 | 0.03 | 99.1 | 125 | 429 |
| St. Joe River | 1698 | DBASRP | 4/21/98 | 11:16:26 | 4.5 | 4 | 6.9 | 11.8 | 7.91 | 6.87 | 43.7 | 0.03 | 99 | 124 | 431 |
| St. Joe River | 1698 | DBASRP | 4/21/98 | 11:16:26 | 4.5 | 3 | 8.1 | 11.8 | 7.92 | 6.85 | 43.9 | 0.03 | 99.4 | 159 | 433 |
| St. Joe River | 1698 | DBASRP | 4/21/98 | 11:16:26 | 4.5 | 2 | 9.6 | 11.9 | 7.94 | 6.79 | 43.6 | 0.03 | 99.7 | 134 | 437 |
| St. Joe River | 1698 | DBASRP | 4/21/98 | 11:16:26 | 4.5 | 1 | 10.3 | 11.9 | 7.94 | 6.72 | 43.7 | 0.03 | 100.1 | 212 | 441 |
| St. Joe River | 2098 | ASJLDT | 5/21/98 | 12:56:22 | 4.0 | 12 | 0.4 | 11.8 | 9.76 | 7.05 | 35.4 | 0.02 | 104 | 134 | 400 |
| St. Joe River | 2098 | ASJLDT | 5/21/98 | 12:56:22 | 4.0 | 11 | 1.3 | 11.7 | 9.76 | 7.06 | 35.4 | 0.02 | 103.3 | 109 | 402 |
| St. Joe River | 2098 | ASJLDT | 5/21/98 | 12:56:22 | 4.0 | 10 | 2.3 | 11.7 | 9.78 | 7.11 | 35.4 | 0.02 | 103.4 | 55 | 402 |
| St. Joe River | 2098 | ASJLDT | 5/21/98 | 12:56:22 | 4.0 | 9 | 3.3 | 11.7 | 9.76 | 7.08 | 35.4 | 0.02 | 103.5 | 115 | 404 |
| St. Joe River | 2098 | ASJLDT | 5/21/98 | 12:56:22 | 4.0 | 8 | 4.3 | 11.7 | 9.74 | 7.08 | 35.4 | 0.02 | 103.6 | 102 | 405 |
| St. Joe River | 2098 | ASJLDT | 5/21/98 | 12:56:22 | 4.0 | 7 | 5.3 | 11.8 | 9.74 | 7.06 | 35.5 | 0.02 | 103.7 | 113 | 406 |
| St. Joe River | 2098 | ASJLDT | 5/21/98 | 12:56:22 | 4.0 | 6 | 6.3 | 11.7 | 9.74 | 7.04 | 35.5 | 0.02 | 103.1 | 129 | 407 |
| St. Joe River | 2098 | ASJLDT | 5/21/98 | 12:56:22 | 4.0 | 5 | 7.3 | 11.7 | 9.73 | 7.07 | 35.4 | 0.02 | 103.5 | 116 | 406 |
| St. Joe River | 2098 | ASJLDT | 5/21/98 | 12:56:22 | 4.0 | 4 | 8.2 | 11.7 | 9.76 | 7.06 | 35.5 | 0.02 | 103.4 | 142 | 406 |
| St. Joe River | 2098 | ASJLDT | 5/21/98 | 12:56:22 | 4.0 | 3 | 9.2 | 11.8 | 9.73 | 7.07 | 35.4 | 0.02 | 103.7 | 139 | 406 |
| St. Joe River | 2098 | ASJLDT | 5/21/98 | 12:56:22 | 4.0 | 2 | 10.2 | 11.7 | 9.76 | 7.01 | 35.4 | 0.02 | 103.5 | 255 | 409 |
| St. Joe River | 2098 | ASJLDT | 5/21/98 | 12:56:22 | 4.0 | 1 | 11.2 | 11.8 | 9.73 | 7 | 35.5 | 0.02 | 104.1 | 337 | 411 |
| St. Joe River | 2398 | DTJLAS | 6/8/98 | 14:34:30 | 4.4 | 14 | 0.3 | 11 | 12.27 | 7.34 | 39.4 | 0.03 | 103.1 | 28 | 370 |
| St. Joe River | 2398 | DTJLAS | 6/8/98 | 14:34:30 | 4.4 | 13 | 1.1 | 11 | 12.23 | 7.35 | 39.4 | 0.03 | 102.9 | 42 | 371 |
| St. Joe River | 2398 | DTJLAS | 6/8/98 | 14:34:30 | 4.4 | 12 | 2.1 | 11 | 12.21 | 7.34 | 39.4 | 0.03 | 102.6 | 57 | 372 |
| St. Joe River | 2398 | DTJLAS | 6/8/98 | 14:34:30 | 4.4 | 11 | 3.1 | 11 | 12.26 | 7.34 | 39.5 | 0.03 | 102.6 | 38 | 373 |
| St. Joe River | 2398 | DTJLAS | 6/8/98 | 14:34:30 | 4.4 | 10 | 4.1 | 11 | 12.2 | 7.34 | 39.5 | 0.03 | 102.5 | 53 | 373 |
| St. Joe River | 2398 | DTJLAS | 6/8/98 | 14:34:30 | 4.4 | 9 | 5.1 | 11 | 12.18 | 7.34 | 39.4 | 0.03 | 102.4 | 133 | 373 |
| St. Joe River | 2398 | DTJLAS | 6/8/98 | 14:34:30 | 4.4 | 8 | 6.1 | 11 | 12.13 | 7.32 | 39.5 | 0.03 | 102.3 | 44 | 374 |
| St. Joe River | 2398 | DTJLAS | 6/8/98 | 14:34:30 | 4.4 | 7 | 7.1 | 11 | 12.12 | 7.33 | 39.6 | 0.03 | 102.4 | 48 | 374 |
| St. Joe River | 2398 | DTJLAS | 6/8/98 | 14:34:30 | 4.4 | 6 | 8.1 | 11 | 12.16 | 7.33 | 39.6 | 0.03 | 102.1 | 59 | 374 |

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|---------------|------|--------|---------|----------|-----|----|------|------|-------|------|------|------|-------|-----|-----|
| St. Joe River | 2398 | DTJLAS | 6/8/98 | 14:34:30 | 4.4 | 5 | 9.1 | 11 | 12.11 | 7.32 | 39.4 | 0.03 | 102.4 | 47 | 375 |
| St. Joe River | 2398 | DTJLAS | 6/8/98 | 14:34:30 | 4.4 | 4 | 10.1 | 11 | 12.15 | 7.32 | 39.6 | 0.03 | 102.1 | 122 | 375 |
| St. Joe River | 2398 | DTJLAS | 6/8/98 | 14:34:30 | 4.4 | 3 | 11.1 | 11 | 12.13 | 7.31 | 39.7 | 0.03 | 102.6 | 35 | 376 |
| St. Joe River | 2398 | DTJLAS | 6/8/98 | 14:34:30 | 4.4 | 2 | 12.1 | 11 | 12.15 | 7.31 | 39.6 | 0.03 | 102.4 | 43 | 377 |
| St. Joe River | 2398 | DTJLAS | 6/8/98 | 14:34:30 | 4.4 | 1 | 13.1 | 10.9 | 12.16 | 7.3 | 39.6 | 0.03 | 101.6 | 223 | 377 |
| St. Joe River | 2598 | DTASBH | 6/22/98 | 10:22:51 | 4.1 | 12 | 0.3 | 9.85 | 15.1 | 7.24 | 43.9 | 0.03 | 98 | 36 | 360 |
| St. Joe River | 2598 | DTASBH | 6/22/98 | 10:22:51 | 4.1 | 11 | 1.8 | 9.84 | 15.02 | 7.24 | 44 | 0.03 | 97.7 | 57 | 362 |
| St. Joe River | 2598 | DTASBH | 6/22/98 | 10:22:51 | 4.1 | 10 | 2.8 | 9.84 | 14.97 | 7.23 | 44 | 0.03 | 97.6 | 130 | 362 |
| St. Joe River | 2598 | DTASBH | 6/22/98 | 10:22:51 | 4.1 | 9 | 3.8 | 9.85 | 7 | 44 | 0.03 | 97.5 | 128 | 362 | |
| St. Joe River | 2598 | DTASBH | 6/22/98 | 10:22:51 | 4.1 | 8 | 4.8 | 9.84 | 14.87 | 7.23 | 43.9 | 0.03 | 97.3 | 205 | 362 |
| St. Joe River | 2598 | DTASBH | 6/22/98 | 10:22:51 | 4.1 | 7 | 5.8 | 9.84 | 14.86 | 7.22 | 43.8 | 0.03 | 97.4 | 220 | 363 |
| St. Joe River | 2598 | DTASBH | 6/22/98 | 10:22:51 | 4.1 | 6 | 6.8 | 9.85 | 14.86 | 7.22 | 44 | 0.03 | 97.5 | 122 | 363 |
| St. Joe River | 2598 | DTASBH | 6/22/98 | 10:22:51 | 4.1 | 5 | 7.8 | 9.87 | 14.86 | 7.22 | 43.9 | 0.03 | 97.7 | 143 | 363 |
| St. Joe River | 2598 | DTASBH | 6/22/98 | 10:22:51 | 4.1 | 4 | 8.8 | 9.88 | 14.84 | 7.22 | 43.8 | 0.03 | 97.7 | 224 | 364 |
| St. Joe River | 2598 | DTASBH | 6/22/98 | 10:22:51 | 4.1 | 3 | 9.8 | 9.89 | 14.87 | 7.22 | 43.9 | 0.03 | 97.9 | 205 | 364 |
| St. Joe River | 2598 | DTASBH | 6/22/98 | 10:22:51 | 4.1 | 2 | 10.8 | 9.91 | 14.87 | 7.21 | 43.9 | 0.03 | 98.1 | 122 | 364 |
| St. Joe River | 2598 | DTASBH | 6/22/98 | 10:22:51 | 4.1 | 1 | 11.8 | 9.96 | 14.84 | 7.2 | 43.9 | 0.03 | 98.5 | 227 | 365 |
| St. Joe River | 2798 | DTASBH | 7/7/98 | 9:26:52 | 4.0 | 13 | 0.3 | 9.13 | 20.97 | 7.39 | 53.5 | 0.03 | 101.9 | 134 | 362 |
| St. Joe River | 2798 | DTASBH | 7/7/98 | 9:26:52 | 4.0 | 12 | 1.2 | 9.24 | 20.51 | 7.34 | 53.3 | 0.03 | 102.2 | 124 | 367 |
| St. Joe River | 2798 | DTASBH | 7/7/98 | 9:26:52 | 4.0 | 11 | 2.2 | 9.21 | 20.15 | 7.31 | 53.2 | 0.03 | 101.2 | 134 | 370 |
| St. Joe River | 2798 | DTASBH | 7/7/98 | 9:26:52 | 4.0 | 10 | 3.2 | 9.16 | 19.94 | 7.31 | 53.2 | 0.03 | 100.2 | 140 | 372 |
| St. Joe River | 2798 | DTASBH | 7/7/98 | 9:26:52 | 4.0 | 9 | 4.2 | 9.16 | 19.9 | 7.29 | 53.2 | 0.03 | 100.1 | 235 | 373 |
| St. Joe River | 2798 | DTASBH | 7/7/98 | 9:26:52 | 4.0 | 8 | 5.2 | 9.17 | 19.85 | 7.29 | 53 | 0.03 | 100.1 | 130 | 374 |
| St. Joe River | 2798 | DTASBH | 7/7/98 | 9:26:52 | 4.0 | 7 | 6.2 | 9.16 | 19.8 | 7.29 | 53.3 | 0.03 | 99.9 | 146 | 375 |
| St. Joe River | 2798 | DTASBH | 7/7/98 | 9:26:52 | 4.0 | 6 | 7.2 | 9.07 | 19.38 | 7.26 | 53.1 | 0.03 | 98.1 | 130 | 377 |
| St. Joe River | 2798 | DTASBH | 7/7/98 | 9:26:52 | 4.0 | 5 | 8.2 | 9 | 19.19 | 7.24 | 53.2 | 0.03 | 97.1 | 119 | 378 |
| St. Joe River | 2798 | DTASBH | 7/7/98 | 9:26:52 | 4.0 | 4 | 9.2 | 9.01 | 19.19 | 7.23 | 53.6 | 0.03 | 97.2 | 103 | 380 |
| St. Joe River | 2798 | DTASBH | 7/7/98 | 9:26:52 | 4.0 | 3 | 10.2 | 9.03 | 19.21 | 7.23 | 53 | 0.03 | 97.3 | 112 | 381 |
| St. Joe River | 2798 | DTASBH | 7/7/98 | 9:26:52 | 4.0 | 2 | 11.2 | 9.01 | 19.19 | 7.23 | 53 | 0.03 | 97.2 | 201 | 382 |
| St. Joe River | 2798 | DTASBH | 7/7/98 | 9:26:52 | 4.0 | 1 | 12.2 | 9.06 | 19.19 | 7.23 | 53 | 0.03 | 97.7 | 220 | 383 |
| St. Joe River | 2998 | ASBH | 7/21/98 | 10:31:40 | 3.9 | 13 | 0.5 | 8.52 | 22.77 | 7.28 | 54.9 | 0.04 | 98.6 | 140 | 325 |
| St. Joe River | 2998 | ASBH | 7/21/98 | 10:31:40 | 3.9 | 12 | 1.5 | 8.51 | 21.99 | 7.27 | 54.7 | 0.04 | 96.9 | 117 | 326 |
| St. Joe River | 2998 | ASBH | 7/21/98 | 10:31:40 | 3.9 | 11 | 2.5 | 8.46 | 21.79 | 7.26 | 54.7 | 0.04 | 96.1 | 130 | 326 |
| St. Joe River | 2998 | ASBH | 7/21/98 | 10:31:40 | 3.9 | 10 | 3.5 | 8.43 | 21.69 | 7.25 | 54.5 | 0.03 | 95.5 | 120 | 326 |
| St. Joe River | 2998 | ASBH | 7/21/98 | 10:31:40 | 3.9 | 9 | 4.5 | 8.36 | 21.51 | 7.24 | 54.8 | 0.04 | 94.4 | 117 | 326 |
| St. Joe River | 2998 | ASBH | 7/21/98 | 10:31:40 | 3.9 | 8 | 5.5 | 8.25 | 21.37 | 7.2 | 54.6 | 0.03 | 92.9 | 122 | 326 |
| St. Joe River | 2998 | ASBH | 7/21/98 | 10:31:40 | 3.9 | 7 | 6.5 | 8.17 | 21.26 | 7.18 | 54.6 | 0.03 | 91.9 | 141 | 326 |
| St. Joe River | 2998 | ASBH | 7/21/98 | 10:31:40 | 3.9 | 6 | 7.5 | 8.12 | 21.18 | 7.15 | 54.6 | 0.04 | 91.1 | 114 | 327 |
| St. Joe River | 2998 | ASBH | 7/21/98 | 10:31:40 | 3.9 | 5 | 8.5 | 7.95 | 20.95 | 7.13 | 54.4 | 0.03 | 88.8 | 129 | 326 |
| St. Joe River | 2998 | ASBH | 7/21/98 | 10:31:40 | 3.9 | 4 | 9.5 | 7.74 | 20.63 | 7.08 | 54.2 | 0.03 | 86 | 58 | 327 |
| St. Joe River | 2998 | ASBH | 7/21/98 | 10:31:40 | 3.9 | 3 | 10.5 | 7.54 | 20.48 | 7.04 | 54.6 | 0.03 | 83.5 | 57 | 327 |

| | | | | | | | | | | | | | | | |
|---------------|------|------|---------|----------|-----|----|------|------|-------|------|------|------|------|-----|-----|
| St. Joe River | 2998 | ASBH | 7/21/98 | 10:31:40 | 3.9 | 2 | 11.5 | 7.53 | 20.28 | 7.03 | 54.2 | 0.03 | 83 | 111 | 327 |
| St. Joe River | 2998 | ASBH | 7/21/98 | 10:31:40 | 3.9 | 1 | 12.5 | 7.26 | 20.21 | 6.99 | 54.6 | 0.03 | 79.9 | 414 | 327 |
| | | | | | | | | | | | | | | | |
| St. Joe River | 3498 | ASGL | 8/26/98 | 12:44:53 | 4.0 | 13 | 0.4 | 7.89 | 22.59 | 7.31 | 60.8 | 0.04 | 91.3 | 56 | 290 |
| St. Joe River | 3498 | ASGL | 8/26/98 | 12:44:53 | 4.0 | 12 | 1.2 | 7.54 | 22.15 | 7.22 | 60.9 | 0.04 | 86.5 | 122 | 294 |
| St. Joe River | 3498 | ASGL | 8/26/98 | 12:44:53 | 4.0 | 11 | 2.2 | 7.38 | 21.83 | 7.2 | 60.8 | 0.04 | 84.2 | 139 | 294 |
| St. Joe River | 3498 | ASGL | 8/26/98 | 12:44:53 | 4.0 | 10 | 3.2 | 7.28 | 21.67 | 7.17 | 60.6 | 0.04 | 82.8 | 143 | 295 |
| St. Joe River | 3498 | ASGL | 8/26/98 | 12:44:53 | 4.0 | 9 | 4.2 | 7.23 | 21.62 | 7.19 | 60.6 | 0.04 | 82.2 | 218 | 293 |
| St. Joe River | 3498 | ASGL | 8/26/98 | 12:44:53 | 4.0 | 8 | 5.2 | 7.22 | 21.58 | 7.18 | 60.8 | 0.04 | 82 | 219 | 291 |
| St. Joe River | 3498 | ASGL | 8/26/98 | 12:44:53 | 4.0 | 7 | 6.2 | 7.2 | 21.53 | 7.16 | 60.9 | 0.04 | 81.6 | 58 | 290 |
| St. Joe River | 3498 | ASGL | 8/26/98 | 12:44:53 | 4.0 | 6 | 7.2 | 7.17 | 21.51 | 7.16 | 60.8 | 0.04 | 81.3 | 145 | 289 |
| St. Joe River | 3498 | ASGL | 8/26/98 | 12:44:53 | 4.0 | 5 | 8.2 | 7.16 | 21.49 | 7.16 | 60.8 | 0.04 | 81.2 | 141 | 288 |
| St. Joe River | 3498 | ASGL | 8/26/98 | 12:44:53 | 4.0 | 4 | 9.2 | 7.08 | 21.48 | 7.15 | 61 | 0.04 | 80.2 | 123 | 286 |
| St. Joe River | 3498 | ASGL | 8/26/98 | 12:44:53 | 4.0 | 3 | 10.2 | 7.03 | 21.46 | 7.14 | 60.9 | 0.04 | 79.6 | 126 | 285 |
| St. Joe River | 3498 | ASGL | 8/26/98 | 12:44:53 | 4.0 | 2 | 11.2 | 6.96 | 21.44 | 7.13 | 61 | 0.04 | 78.8 | 133 | 283 |
| St. Joe River | 3498 | ASGL | 8/26/98 | 12:44:53 | 4.0 | 1 | 12.2 | 6.92 | 21.42 | 7.13 | 60.6 | 0.04 | 78.3 | 529 | 281 |
| | | | | | | | | | | | | | | | |
| St. Joe River | 3598 | DTAS | 9/3/98 | 12:00:53 | 4.1 | 13 | 0.3 | 7.89 | 21.6 | 7.25 | 65.2 | 0.04 | 89.7 | 19 | 281 |
| St. Joe River | 3598 | DTAS | 9/3/98 | 12:00:53 | 4.1 | 12 | 1.7 | 7.84 | 20.93 | 7.22 | 65 | 0.04 | 88 | 21 | 281 |
| St. Joe River | 3598 | DTAS | 9/3/98 | 12:00:53 | 4.1 | 11 | 2.7 | 7.7 | 20.72 | 7.21 | 64.9 | 0.04 | 86.2 | 20 | 281 |
| St. Joe River | 3598 | DTAS | 9/3/98 | 12:00:53 | 4.1 | 10 | 3.7 | 7.68 | 20.7 | 7.16 | 65.1 | 0.04 | 85.8 | 17 | 283 |
| St. Joe River | 3598 | DTAS | 9/3/98 | 12:00:53 | 4.1 | 9 | 4.7 | 7.65 | 20.7 | 7.15 | 65.2 | 0.04 | 85.5 | 28 | 283 |
| St. Joe River | 3598 | DTAS | 9/3/98 | 12:00:53 | 4.1 | 8 | 5.7 | 7.55 | 20.65 | 7.13 | 64.8 | 0.04 | 84.3 | 15 | 282 |
| St. Joe River | 3598 | DTAS | 9/3/98 | 12:00:53 | 4.1 | 7 | 6.7 | 7.5 | 20.65 | 7.14 | 65.2 | 0.04 | 83.8 | 19 | 281 |
| St. Joe River | 3598 | DTAS | 9/3/98 | 12:00:53 | 4.1 | 6 | 7.7 | 7.35 | 20.65 | 7.12 | 65 | 0.04 | 82.1 | 29 | 281 |
| St. Joe River | 3598 | DTAS | 9/3/98 | 12:00:53 | 4.1 | 5 | 8.7 | 7.33 | 20.63 | 7.11 | 65.3 | 0.04 | 81.9 | 44 | 280 |
| St. Joe River | 3598 | DTAS | 9/3/98 | 12:00:53 | 4.1 | 4 | 9.7 | 7.18 | 20.6 | 7.08 | 65.3 | 0.04 | 80.1 | 42 | 280 |
| St. Joe River | 3598 | DTAS | 9/3/98 | 12:00:53 | 4.1 | 3 | 10.7 | 6.83 | 20.53 | 7.03 | 65.4 | 0.04 | 76.1 | 54 | 278 |
| St. Joe River | 3598 | DTAS | 9/3/98 | 12:00:53 | 4.1 | 2 | 11.7 | 6.35 | 20.39 | 6.99 | 65.9 | 0.04 | 70.6 | 54 | 276 |
| St. Joe River | 3598 | DTAS | 9/3/98 | 12:00:53 | 4.1 | 1 | 12.7 | 5.75 | 20.28 | 6.93 | 67.1 | 0.04 | 63.8 | 157 | 274 |
| | | | | | | | | | | | | | | | |
| St. Joe River | 4098 | KBDB | 10/9/98 | 12:58:00 | 2.8 | 14 | 0.3 | 9.26 | 14.01 | 7.33 | 61.7 | 0.04 | 89.7 | 48 | 329 |
| St. Joe River | 4098 | KBDB | 10/9/98 | 12:58:00 | 2.8 | 13 | 0.6 | 9.21 | 14 | 7.31 | 61.7 | 0.04 | 89.1 | 130 | 330 |
| St. Joe River | 4098 | KBDB | 10/9/98 | 12:58:00 | 2.8 | 12 | 1.6 | 9.11 | 13.93 | 7.28 | 61.5 | 0.04 | 88 | 49 | 331 |
| St. Joe River | 4098 | KBDB | 10/9/98 | 12:58:00 | 2.8 | 11 | 2.6 | 8.97 | 13.77 | 7.23 | 61.5 | 0.04 | 86.4 | 110 | 333 |
| St. Joe River | 4098 | KBDB | 10/9/98 | 12:58:00 | 2.8 | 10 | 3.5 | 8.96 | 13.76 | 7.23 | 61.6 | 0.04 | 86.3 | 54 | 333 |
| St. Joe River | 4098 | KBDB | 10/9/98 | 12:58:00 | 2.8 | 9 | 4.5 | 8.96 | 13.75 | 7.22 | 61.6 | 0.04 | 86.3 | 105 | 333 |
| St. Joe River | 4098 | KBDB | 10/9/98 | 12:58:00 | 2.8 | 8 | 5.4 | 8.96 | 13.75 | 7.22 | 61.5 | 0.04 | 86.3 | 126 | 333 |
| St. Joe River | 4098 | KBDB | 10/9/98 | 12:58:00 | 2.8 | 7 | 6.5 | 8.96 | 13.75 | 7.22 | 61.8 | 0.04 | 86.3 | 121 | 332 |
| St. Joe River | 4098 | KBDB | 10/9/98 | 12:58:00 | 2.8 | 6 | 7.6 | 8.96 | 13.75 | 7.22 | 61.6 | 0.04 | 86.3 | 137 | 331 |
| St. Joe River | 4098 | KBDB | 10/9/98 | 12:58:00 | 2.8 | 5 | 8.6 | 8.96 | 13.75 | 7.22 | 61.4 | 0.04 | 86.3 | 113 | 331 |
| St. Joe River | 4098 | KBDB | 10/9/98 | 12:58:00 | 2.8 | 4 | 9.5 | 8.94 | 13.75 | 7.23 | 61.8 | 0.04 | 86.1 | 120 | 330 |
| St. Joe River | 4098 | KBDB | 10/9/98 | 12:58:00 | 2.8 | 3 | 10.1 | 8.94 | 13.73 | 7.22 | 61.5 | 0.04 | 86 | 217 | 331 |
| St. Joe River | 4098 | KBDB | 10/9/98 | 12:58:00 | 2.8 | 2 | 11.6 | 8.95 | 13.73 | 7.21 | 61.4 | 0.04 | 86.2 | 155 | 331 |

| | | | | | | | | | | | | | | | |
|---------------|------|--------|----------|----------|-----|----|------|------|-------|------|------|------|------|-----|-----|
| St. Joe River | 4098 | KBDB | 10/9/98 | 12:58:00 | 2.8 | 1 | 12.6 | 8.96 | 13.73 | 7.19 | 61.8 | 0.04 | 86.3 | 338 | 332 |
| | | | | | | | | | | | | | | | |
| St. Joe River | 4298 | DTASJB | 10/19/98 | 10:41:51 | 2.6 | 12 | 0.5 | 9.79 | 10.66 | 7.29 | 60 | 0.04 | 87 | 129 | 355 |
| St. Joe River | 4298 | DTASJB | 10/19/98 | 10:41:51 | 2.6 | 11 | 1.6 | 9.78 | 0 | 7.27 | 60.1 | 0.04 | 86.5 | 31 | 357 |
| St. Joe River | 4298 | DTASJB | 10/19/98 | 10:41:51 | 2.6 | 10 | 2.6 | 9.75 | 10.4 | 7.27 | 59.9 | 0.04 | 86.2 | 42 | 357 |
| St. Joe River | 4298 | DTASJB | 10/19/98 | 10:41:51 | 2.6 | 9 | 3.6 | 9.74 | 10.4 | 7.26 | 59.9 | 0.04 | 86.1 | 34 | 358 |
| St. Joe River | 4298 | DTASJB | 10/19/98 | 10:41:51 | 2.6 | 8 | 4.6 | 9.73 | 10.36 | 7.23 | 60.2 | 0.04 | 85.9 | 32 | 359 |
| St. Joe River | 4298 | DTASJB | 10/19/98 | 10:41:51 | 2.6 | 7 | 5.6 | 9.73 | 10.35 | 7.25 | 59.9 | 0.04 | 85.8 | 32 | 358 |
| St. Joe River | 4298 | DTASJB | 10/19/98 | 10:41:51 | 2.6 | 6 | 6.6 | 9.72 | 10.35 | 7.24 | 60 | 0.04 | 85.7 | 35 | 358 |
| St. Joe River | 4298 | DTASJB | 10/19/98 | 10:41:51 | 2.6 | 5 | 7.6 | 9.73 | 10.33 | 7.25 | 60.2 | 0.04 | 85.9 | 34 | 357 |
| St. Joe River | 4298 | DTASJB | 10/19/98 | 10:41:51 | 2.6 | 4 | 8.6 | 9.73 | 10.35 | 7.25 | 60.1 | 0.04 | 85.8 | 31 | 357 |
| St. Joe River | 4298 | DTASJB | 10/19/98 | 10:41:51 | 2.6 | 3 | 9.6 | 9.74 | 10.33 | 7.25 | 60.2 | 0.04 | 86 | 42 | 356 |
| St. Joe River | 4298 | DTASJB | 10/19/98 | 10:41:51 | 2.6 | 2 | 10.6 | 9.63 | 10.2 | 7.25 | 59.9 | 0.04 | 84.7 | 517 | 356 |
| St. Joe River | 4298 | DTASJB | 10/19/98 | 10:41:51 | 2.6 | 1 | 10.6 | 9.82 | 10.22 | 7.33 | 59.9 | 0.04 | 86.4 | 122 | 353 |
| | | | | | | | | | | | | | | | |
| St. Joe River | 4698 | KB AS | 11/17/98 | 9:48:00 | 3.6 | 10 | 0.5 | 9.68 | 5.24 | 7.19 | 53.9 | 0.03 | 77 | 110 | 401 |
| St. Joe River | 4698 | KB AS | 11/17/98 | 9:48:00 | 3.6 | 9 | 1.7 | 9.68 | 5.26 | 7.19 | 54 | 0.03 | 77 | 49 | 402 |
| St. Joe River | 4698 | KB AS | 11/17/98 | 9:48:00 | 3.6 | 8 | 2.7 | 9.66 | 5.29 | 7.16 | 53.9 | 0.03 | 77 | 48 | 405 |
| St. Joe River | 4698 | KB AS | 11/17/98 | 9:48:00 | 3.6 | 7 | 3.7 | 9.66 | 5.29 | 7.15 | 53.8 | 0.03 | 77 | 103 | 405 |
| St. Joe River | 4698 | KB AS | 11/17/98 | 9:48:00 | 3.6 | 6 | 4.7 | 9.67 | 5.27 | 7.16 | 53.8 | 0.03 | 77 | 52 | 405 |
| St. Joe River | 4698 | KB AS | 11/17/98 | 9:48:00 | 3.6 | 5 | 5.7 | 9.68 | 5.29 | 7.16 | 53.8 | 0.03 | 77.1 | 49 | 405 |
| St. Joe River | 4698 | KB AS | 11/17/98 | 9:48:00 | 3.6 | 4 | 6.7 | 9.7 | 5.24 | 7.16 | 54.2 | 0.03 | 77.1 | 100 | 406 |
| St. Joe River | 4698 | KB AS | 11/17/98 | 9:48:00 | 3.6 | 3 | 7.7 | 9.7 | 5.24 | 7.16 | 54.1 | 0.03 | 77.1 | 107 | 407 |
| St. Joe River | 4698 | KB AS | 11/17/98 | 9:48:00 | 3.6 | 2 | 8.7 | 9.72 | 5.22 | 7.15 | 54.1 | 0.03 | 77.3 | 117 | 409 |
| St. Joe River | 4698 | KB AS | 11/17/98 | 9:48:00 | 3.6 | 1 | 9.7 | 9.65 | 5.29 | 7.14 | 54 | 0.03 | 76.9 | 857 | 410 |

Appendix B

Water quality results from Coeur d'Alene Lake during 1997 and 1998.

Appendix B.1 Nitrate ($\mu\text{g/L}$) results from the epilimnion taken at thirteen stations on Coeur d'Alene Lake, Idaho, 1997.

| Location | Date | |
|------------------------|----------|---------|
| | 10/20/97 | 11/4/97 |
| Rockford Bay | 113 | 53 |
| Windy Bay Shallow | <5 | 59 |
| Windy Bay Deep | <5 | 53 |
| Coeur d'Alene River | <5 | <5 |
| Mid Lake Coeur d'Alene | <5 | 49 |
| Carey Bay | <5 | <5 |
| Conkling Point | <5 | <5 |
| Hidden Lake | <5 | <5 |
| Round Lake | <5 | 67 |
| Chatcolet Lake Deep | <5 | <5 |
| Chatcolet Lake Shallow | <5 | 43 |
| Benewah Lake | <5 | - |
| St. Joe River | <5 | 66 |

- No samples taken to Spokane Tribal Laboratory.

Appendix B.2 Nitrate ($\mu\text{g/L}$) results from the hypolimnion taken at ten stations on Coeur d'Alene Lake, Idaho, 1997.

| Location | Date | |
|------------------------|----------|---------|
| | 10/20/97 | 11/4/97 |
| Rockford Bay | <5 | 50 |
| Windy Bay Shallow | <5 | 63 |
| Windy Bay Deep | 131 | 75 |
| Coeur d'Alene River | <5 | 101 |
| Mid Lake Coeur d'Alene | 54 | 128 |
| Carey Bay | <5 | 92 |
| Conkling Point | <5 | 125 |
| Hidden Lake | <5 | <5 |
| Chatcolet Lake Deep | <5 | <5 |
| St. Joe River | <5 | <5 |

Appendix B.3 Nitrate ($\mu\text{g/L}$) results from the epilimnion taken at thirteen stations on Coeur d'Alene Lake, Idaho, 1998.

| Location | 4/28/98 | 6/26/98 | 7/8/98 | Date 8/10/98 | 9/2/98 | 10/20/98 | 11/12/98 |
|------------------------|---------|---------|--------|-----------------|--------|----------|----------|
| Rockford Bay | 33 | <5 | <5 | <5 | <5 | <5 | <5 |
| Windy Bay Shallow | 53 | <5 | <5 | <5 | <5 | <5 | <5 |
| Windy Bay Deep | 37 | <5 | <5 | <5 | <5 | <5 | <5 |
| Coeur d'Alene River | 8 | <5 | <5 | <5 | <5 | 39 | 6 |
| Mid Lake Coeur d'Alene | <5 | <5 | <5 | <5 | <5 | <5 | 7 |
| Carey Bay | 16 | <5 | <5 | <5 | <5 | <5 | 35 |
| Conkling Point | 57 | <5 | <5 | <5 | <5 | <5 | 18 |
| Hidden Lake | 210 | <5 | <5 | <5 | <5 | <5 | <5 |
| Round Lake | 8 | <5 | <5 | <5 | <5 | <5 | - |
| Chatcolet Lake Deep | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chatcolet Lake Shallow | - | <5 | <5 | <5 | <5 | <5 | - |
| Benewah Lake | <5 | <5 | <5 | <5 | <5 | - | - |
| St. Joe River | <5 | <5 | <5 | <5 | <5 | <5 | 6 |

-No samples taken to Spokane Tribal Lab.

Appendix B.4 Nitrate ($\mu\text{g/L}$) results from the hypolimnion taken at eleven stations on Coeur d'Alene Lake, Idaho, 1998.

| Location | 4/28/98 | 6/26/98 | 7/8/98 | Date 8/10/98 | 9/2/98 | 10/20/98 | 11/12/98 |
|------------------------|---------|---------|--------|-----------------|--------|----------|----------|
| Rockford Bay | 50 | <5 | <5 | <5 | <5 | <5 | <5 |
| Windy Bay Shallow | 52 | <5 | <5 | <5 | <5 | <5 | <5 |
| Windy Bay Deep | 49 | <5 | <5 | <5 | 29 | 39 | 51 |
| Coeur d'Alene River | 19 | <5 | <5 | <5 | <5 | <5 | 28 |
| Mid Lake Coeur d'Alene | 62 | <5 | <5 | <5 | <5 | 78 | 65 |
| Carey Bay | 8 | <5 | <5 | <5 | <5 | <5 | 11 |
| Conkling Point | 36 | <5 | <5 | <5 | <5 | <5 | 16 |
| Hidden Lake | <5 | <5 | <5 | <5 | <5 | - | <5 |
| Chatcolet Lake Deep | 21 | <5 | <5 | <5 | <5 | <5 | <5 |
| Benewah Lake | <5 | <5 | <5 | <5 | <5 | - | - |
| St. Joe River | <5 | <5 | <5 | <5 | <5 | <5 | 6 |

-No samples taken to Spokane Tribal Lab.

Appendix B.5 Nitrite ($\mu\text{g/L}$) results from the epilimnion taken at thirteen stations on Coeur d'Alene Lake, Idaho, 1997.

| Location | Date | |
|------------------------|----------|---------|
| | 10/20/97 | 11/4/97 |
| Rockford Bay | <29 | <29 |
| Windy Bay Shallow | <29 | <29 |
| Windy Bay Deep | <29 | <29 |
| Coeur d'Alene River | <29 | <29 |
| Mid Lake Coeur d'Alene | <29 | <29 |
| Carey Bay | <29 | <29 |
| Conkling Point | <29 | <29 |
| Hidden Lake | <29 | <29 |
| Round Lake | <29 | <29 |
| Chatcolet Lake Deep | <29 | <29 |
| Chatcolet Lake Shallow | <29 | <29 |
| Benewah Lake | <29 | - |
| St. Joe River | <29 | <29 |

- No sample taken to Spokane Tribal Laboratory.

Appendix B.6 Nitrite ($\mu\text{g/L}$) results from the hypolimnion taken at ten stations on Coeur d'Alene Lake, Idaho, 1997.

| Location | Date | |
|------------------------|----------|---------|
| | 10/20/97 | 11/4/97 |
| Rockford Bay | <29 | <29 |
| Windy Bay Shallow | <29 | <29 |
| Windy Bay Deep | <29 | <29 |
| Coeur d'Alene River | <29 | <29 |
| Mid Lake Coeur d'Alene | <29 | <29 |
| Carey Bay | <29 | <29 |
| Conkling Point | <29 | <29 |
| Hidden Lake | <29 | <29 |
| Chatcolet Lake Deep | <29 | <29 |
| St. Joe River | <29 | <29 |

Appendix B.7 Nitrite ($\mu\text{g/L}$) results from the epilimnion taken at thirteen stations on Coeur d'Alene Lake, Idaho, 1998.

| Location | 4/28/98 | 6/26/98 | 7/8/98 | Date 8/10/98 | 9/2/98 | 10/20/98 | 11/12/98 |
|------------------------|---------|---------|--------|-----------------|--------|----------|----------|
| Rockford Bay | <29 | <29 | <10 | <10 | <10 | <10 | <10 |
| Windy Bay Shallow | <29 | <29 | <10 | <10 | <10 | <10 | <10 |
| Windy Bay Deep | <29 | <29 | <10 | <10 | <10 | <10 | <10 |
| Coeur d'Alene River | <29 | <29 | <10 | <10 | <10 | <10 | <10 |
| Mid Lake Coeur d'Alene | <29 | <29 | <10 | <10 | <10 | <10 | <10 |
| Carey Bay | <29 | <29 | <10 | <10 | <10 | <10 | <10 |
| Conkling Point | <29 | <29 | <10 | <10 | <10 | <10 | <10 |
| Hidden Lake | <29 | <29 | <10 | <10 | <10 | <10 | <10 |
| Round Lake | <29 | <29 | <10 | <10 | <10 | <10 | <10 |
| Chatcolet Lake Deep | <29 | <29 | <10 | <10 | <10 | <10 | <10 |
| Chatcolet Lake Shallow | - | <29 | <10 | <10 | <10 | <10 | <10 |
| Benewah Lake | <29 | <29 | <10 | <10 | <10 | - | - |
| St. Joe River | <29 | <29 | <10 | <10 | <10 | <10 | <10 |

-No samples taken to Spokane Tribal Lab.

Appendix B.8 Nitrite ($\mu\text{g/L}$) results from the hypolimnion taken at eleven stations on Coeur d'Alene Lake, Idaho, 1998.

| Location | 4/28/98 | 6/26/98 | 7/8/98 | Date 8/10/98 | 9/2/98 | 10/20/98 | 11/12/98 |
|------------------------|---------|---------|--------|-----------------|--------|----------|----------|
| Rockford Bay | <29 | <29 | <10 | <10 | <10 | <10 | <10 |
| Windy Bay Shallow | <29 | <29 | <10 | <10 | <10 | <10 | <10 |
| Windy Bay Deep | <29 | <29 | <10 | <10 | <10 | <10 | <10 |
| Coeur d'Alene River | <29 | <29 | <10 | <10 | <10 | <10 | <10 |
| Mid Lake Coeur d'Alene | <29 | <29 | <10 | <10 | <10 | <10 | <10 |
| Carey Bay | <29 | <29 | <10 | <10 | <10 | <10 | <10 |
| Conkling Point | <29 | <29 | <10 | <10 | <10 | <10 | <10 |
| Hidden Lake | <29 | <29 | <10 | <10 | <10 | <10 | <10 |
| Chatcolet Lake Deep | <29 | <29 | <10 | <10 | <10 | <10 | <10 |
| Benewah Lake | <29 | <29 | <10 | <10 | <10 | - | - |
| St. Joe River | <29 | <29 | <10 | <10 | <10 | <10 | <10 |

-No samples taken to Spokane Tribal Lab.

Appendix B.9 Total kjeldahl nitrogen (µg/L) results from the epilimnion taken at thirteen stations on Coeur d'Alene Lake, Idaho, 1998.

| Location | 7/8/98 | Date 8/10/98 | 10/20/98 |
|------------------------|--------|-----------------|----------|
| Rockford Bay | 200 | 132 | 160 |
| Windy Bay Shallow | <120 | 124 | 227 |
| Windy Bay Deep | 140 | <120 | 212 |
| Coeur d'Alene River | <120 | 232 | 157 |
| Mid Lake Coeur d'Alene | <120 | <120 | <120 |
| Carey Bay | 240 | <120 | <120 |
| Conkling Point | 136 | <120 | <120 |
| Hidden Lake | 256 | <120 | <120 |
| Round Lake | <120 | 120 | <120 |
| Chatcolet Lake Deep | 172 | <120 | <120 |
| Chatcolet Lake Shallow | 228 | <120 | <120 |
| Benewah Lake | <120 | 160 | - |
| St. Joe River | <120 | <120 | <120 |

-No samples taken to Spokane Tribal Lab.

Appendix B.10 Total kjeldahl nitrogen (µg/L) results from the hypolimnion taken at eleven stations on Coeur d'Alene Lake, Idaho, 1998.

| Location | 7/8/98 | Date 8/10/98 | 10/20/98 |
|------------------------|--------|-----------------|----------|
| Rockford Bay | 316 | <120 | 156 |
| Windy Bay Shallow | <120 | 124 | <120 |
| Windy Bay Deep | <120 | 188 | 157 |
| Coeur d'Alene River | <120 | 132 | 124 |
| Mid Lake Coeur d'Alene | <120 | <120 | 489 |
| Carey Bay | 248 | <120 | <120 |
| Conkling Point | 148 | <120 | <120 |
| Hidden Lake | 312 | <120 | - |
| Chatcolet Lake Deep | 232 | 120 | <120 |
| Benewah Lake | <120 | 136 | - |
| St. Joe River | <120 | <120 | <120 |

-No samples taken to Spokane Tribal Lab.

Appendix B.11 Ortho-Phosphate ($\mu\text{g/L}$) results from the epilimnion taken at thirteen stations on Coeur d'Alene Lake, Idaho, 1997.

| Location | Date | |
|------------------------|----------|---------|
| | 10/20/97 | 11/4/97 |
| Rockford Bay | <26 | <26 |
| Windy Bay Shallow | <26 | <26 |
| Windy Bay Deep | <26 | <26 |
| Coeur d'Alene River | <26 | <26 |
| Mid Lake Coeur d'Alene | <26 | <26 |
| Carey Bay | <26 | <26 |
| Conkling Point | <26 | <26 |
| Hidden Lake | <26 | <26 |
| Round Lake | <26 | <26 |
| Chatcolet Lake Deep | <26 | <26 |
| Chatcolet Lake Shallow | <26 | <26 |
| Benewah Lake | <26 | - |
| St. Joe River | <26 | <26 |

- No sample taken to Spokane Tribal Laboratory.

Appendix B.12 Ortho-Phosphate ($\mu\text{g/L}$) results from the hypolimnion taken at ten stations on Coeur d'Alene Lake, Idaho, 1997.

| Location | Date | |
|------------------------|----------|---------|
| | 10/20/97 | 11/4/97 |
| Rockford Bay | <26 | <26 |
| Windy Bay Shallow | <26 | <26 |
| Windy Bay Deep | <26 | <26 |
| Coeur d'Alene River | <26 | <26 |
| Mid Lake Coeur d'Alene | <26 | <26 |
| Carey Bay | <26 | <26 |
| Conkling Point | <26 | <26 |
| Hidden Lake | <26 | <26 |
| Chatcolet Lake Deep | <26 | <26 |
| St. Joe River | <26 | <26 |

Appendix B.13 Ortho-phosphate ($\mu\text{g/L}$) results from the epilimnion taken at thirteen stations on Coeur d'Alene Lake, Idaho, 1998.

| Location | 4/28/98 | 6/25/98 | 7/8/98 | Date 8/10/98 | 9/2/98 | 10/20/98 | 11/12/98 |
|------------------------|---------|---------|--------|-----------------|--------|----------|----------|
| Rockford Bay | <26 | <26 | <20 | <20 | <20 | <20 | <20 |
| Windy Bay Shallow | <26 | <26 | <20 | <20 | <20 | <20 | <20 |
| Windy Bay Deep | <26 | <26 | <20 | <20 | <20 | <20 | <20 |
| Coeur d'Alene River | <26 | <26 | <20 | <20 | <20 | <20 | <20 |
| Mid Lake Coeur d'Alene | <26 | <26 | <20 | <20 | <20 | <20 | <20 |
| Carey Bay | <26 | <26 | <20 | <20 | <20 | <20 | <20 |
| Conkling Point | <26 | <26 | <20 | <20 | <20 | <20 | <20 |
| Hidden Lake | <26 | <26 | <20 | <20 | <20 | <20 | <20 |
| Round Lake | <26 | <26 | <20 | <20 | <20 | <20 | - |
| Chatcolet Lake Deep | <26 | <26 | <20 | <20 | <20 | <20 | <20 |
| Chatcolet Lake Shallow | - | <26 | <20 | <20 | <20 | <20 | - |
| Benewah Lake | <26 | <26 | <20 | <20 | <20 | - | - |
| St. Joe River | <26 | <26 | <20 | <20 | <20 | <20 | <20 |

-No sample taken to Spokane Tribal Lab.

Appendix B.14 Ortho-phosphate ($\mu\text{g/L}$) results from the hypolimnion taken at eleven stations on Coeur d'Alene Lake, Idaho, 1998.

| Location | 4/28/98 | 6/26/98 | 7/8/98 | Date 8/10/98 | 9/2/98 | 10/20/98 | 11/12/98 |
|------------------------|---------|---------|--------|-----------------|--------|----------|----------|
| Rockford Bay | <26 | <26 | <20 | <20 | <20 | <20 | <20 |
| Windy Bay Shallow | <26 | <26 | <20 | <20 | <20 | <20 | <20 |
| Windy Bay Deep | <26 | <26 | <20 | <20 | <20 | <20 | <20 |
| Coeur d'Alene River | <26 | <26 | <20 | <20 | <20 | <20 | <20 |
| Mid Lake Coeur d'Alene | <26 | <26 | <20 | <20 | <20 | <20 | <20 |
| Carey Bay | <26 | <26 | <20 | <20 | <20 | <20 | <20 |
| Conkling Point | <26 | <26 | <20 | <20 | <20 | <20 | <20 |
| Hidden Lake | <26 | <26 | <20 | <20 | <20 | <20 | <20 |
| Chatcolet Lake Deep | <26 | <26 | <20 | <20 | <20 | <20 | <20 |
| Benewah Lake | <26 | <26 | <20 | <20 | <20 | - | - |
| St. Joe River | <26 | <26 | <20 | <20 | <20 | <20 | <20 |

-No sample taken to Spokane Tribal Lab.

Appendix B.15 Total phosphorous ($\mu\text{g/L}$) results from the epilimnion taken at thirteen stations on Coeur d'Alene Lake, Idaho, 1998.

-No samples taken to Spokane Tribal Lab.

Appendix B.16 Total phosphorous ($\mu\text{g/L}$) results from the hypolimnion taken at eleven stations on Coeur d'Alene Lake, Idaho, 1998.

Appendix B.17 Chlorophyll_a ($\mu\text{g/L}$) results from the epilimnion taken at thirteen stations on Coeur d'Alene Lake, Idaho, 1997.

| Location | Date | | | |
|------------------------|---------|--------------|----------|----------------------|
| | 8/13/97 | 9/16/97 | 10/20/97 | 11/4/97 ^a |
| Rockford Bay | <0.01 | 0.70 | <0.01 | 3.30 |
| Windy Bay Shallow | <0.01 | <0.01 | 0.74 | 2.14 |
| Windy Bay Deep | <0.01 | 1.34 | 2.23 | 1.38 |
| Coeur d'Alene River | 0.65 | <0.01 | - | 2.96 |
| Mid Lake Coeur d'Alene | 1.42 | 0.64 | 1.90 | 2.91 |
| Carey Bay | 0.64 | <0.01 | - | 1.28 |
| Conkling Point | <0.01 | 2.16 | 1.38 | 3.39 |
| Hidden Lake | <0.01 | Contaminated | 3.62 | 6.89 |
| Round Lake | <0.01 | 1.54 | 0.67 | 0.64 |
| Chatcolet Lake Deep | 3.14 | 2.81 | 4.26 | 7.66 |
| Chatcolet Lake Shallow | 5.32 | 4.89 | 2.78 | 0.69 |
| Benewah Lake | 0.64 | 25.79 | 3.54 | - |
| St. Joe River | - | Contaminated | 1.40 | <0.01 |

- No sample taken to Spokane Tribal Laboratory.

^a Coeur d'Alene Lake was isothermal.

Appendix B.18 Chlorophyll_a ($\mu\text{g/L}$) results from the hypolimnion taken at eleven stations on Coeur d'Alene Lake, Idaho, 1997.

| Location | Date | | | |
|------------------------|---------|--------------|----------|----------------------|
| | 8/13/97 | 9/16/97 | 10/20/97 | 11/4/97 ^a |
| Rockford Bay | 1.40 | 2.09 | - | - |
| Windy Bay Shallow | 2.14 | 0.68 | - | - |
| Windy Bay Deep | 0.64 | 0.64 | <0.01 | - |
| Coeur d'Alene River | 0.69 | 1.32 | <0.01 | - |
| Mid Lake Coeur d'Alene | 0.69 | 2.07 | 1.38 | - |
| Carey Bay | <0.01 | 1.33 | 1.4 | - |
| Conkling Point | 0.005 | 1.37 | <0.01 | - |
| Hidden Lake | 11.92 | 20.25 | 1.98 | - |
| Chatcolet Lake Deep | 6.03 | Contaminated | 14.04 | - |
| Benewah Lake | 34.14 | 28.78 | - | - |
| St. Joe River | - | 0.70 | <0.01 | - |

- No sample taken to Spokane Tribal Laboratory.

^a Coeur d'Alene Lake was isothermal.

Appendix B.19 Chlorophyll_a (µg/L) results from the epilimnion taken at thirteen stations on Coeur d'Alene Lake, Idaho, 1998.

| Location | 4/28/98 | 6/26/98 | 7/8/98 | Date 8/10/98 | 9/2/98 | 10/20/98 | 11/12/98 |
|------------------------|---------|---------|--------|-----------------|--------|----------|----------|
| Rockford Bay | 1.240 | 1.49 | <0.01 | <0.01 | 1.31 | 1.89 | 0.71 |
| Windy Bay Shallow | 2.080 | 2.11 | <0.01 | 0.71 | 0.066 | <0.01 | 1.85 |
| Windy Bay Deep | 1.290 | 0.7 | 2.85 | 2.01 | 2.25 | <0.01 | 1.24 |
| Coeur d'Alene River | 1.310 | 1.22 | 0.73 | <0.01 | <0.01 | <0.01 | 2.46 |
| Mid Lake Coeur d'Alene | 1.890 | 2.22 | 0.69 | <0.01 | 1.43 | 0.7 | 0.66 |
| Carey Bay | 1.920 | 3.14 | 1.79 | 2 | 2.09 | 0.69 | 1.26 |
| Conkling Point | <0.01 | 1.4 | 2.58 | <0.01 | 2.78 | 0.63 | 2.63 |
| Hidden Lake | <0.01 | 1.88 | 3.57 | 30.84 | 1.38 | 6.04 | 2.87 |
| Round Lake | <0.01 | <0.01 | 1.29 | 0.67 | 3.49 | 3.25 | - |
| Chatcolet Lake Deep | <0.01 | 2.55 | 4.69 | 4.09 | 3.42 | 0.69 | 7.21 |
| Chatcolet Lake Shallow | - | 0.75 | 8.96 | 2.61 | 2.77 | 8.38 | - |
| Benewah Lake | 1.470 | 4.05 | 23.6 | 61.41 | 0.65 | - | - |
| St. Joe River | 0.640 | 1.47 | 0.67 | <0.01 | 2.68 | 3.91 | 1.38 |

-No samples taken to Spokane Tribal Laboratory.

Appendix B.20 Chlorophyll_a (µg/L) results from the hypolimnion taken at eleven stations on Coeur d'Alene Lake, Idaho, 1998.

| Location | 4/28/98 | 6/26/98 | 7/8/98 | Date 8/10/98 | 9/2/98 | 10/20/98 | 11/12/98 |
|------------------------|---------|---------|--------|-----------------|--------|----------|----------|
| Rockford Bay | 1.930 | 0.7 | 2.1 | 4.09 | 1.41 | 2.17 | 0.65 |
| Windy Bay Shallow | 3.440 | <0.01 | 1.44 | 2.07 | 0.71 | <0.01 | <0.01 |
| Windy Bay Deep | 1.250 | 2.96 | 0.67 | <0.01 | 2.86 | <0.01 | 0.66 |
| Coeur d'Alene River | <0.01 | <0.01 | 1.99 | 0.65 | 2.67 | 1.42 | 2.84 |
| Mid Lake Coeur d'Alene | 0.590 | 0.7 | <0.01 | 0.62 | 2.02 | <0.01 | <0.01 |
| Carey Bay | 1.260 | <0.01 | 0.72 | 2.08 | 2.65 | 1.97 | 1.26 |
| Conkling Point | <0.01 | <0.01 | 0.7 | 0.68 | 2.24 | 3.43 | 2.75 |
| Hidden Lake | 5.490 | 6.16 | 16.84 | 80.92 | 18.72 | - | 5.22 |
| Chatcolet Lake Deep | 2.030 | <0.01 | 3.31 | 4.42 | 3.06 | 8.47 | 6.76 |
| Benewah Lake | 2.05 | 9.18 | 15.26 | 54.46 | 15.95 | - | - |
| St. Joe River | <0.01 | 1.27 | 0.74 | 4.69 | <0.01 | 5.83 | 0.63 |

-No samples taken to Spokane Tribal Laboratory.

Appendix B.21 Total suspended solids (mg/L) results from the epilimnion taken at thirteen stations on Coeur d'Alene Lake, Idaho 1997.

| Location | Date | | | |
|------------------------|---------|---------|----------|---------|
| | 8/13/97 | 9/16/97 | 10/20/97 | 11/4/97 |
| Rockford Bay | <2 | 2 | <0.5 | <0.5 |
| Windy Bay Shallow | <2 | 2 | <0.5 | <0.5 |
| Windy Bay Deep | <2 | 2 | <0.5 | <0.5 |
| Coeur d'Alene River | 2 | 2 | <0.5 | <0.5 |
| Mid Lake Coeur d'Alene | <2 | 2 | <0.5 | 1.5 |
| Carey Bay | <2 | 2 | <0.5 | 4.0 |
| Conkling Point | <2 | 2 | <0.5 | 6.5 |
| Hidden Lake | 10 | 97 | 2.5 | <0.5 |
| Round Lake | <2 | 2 | 1.5 | 16.0 |
| Chatcolet Lake Deep | <2 | 2 | 2.0 | <0.5 |
| Chatcolet Lake Shallow | 10 | 16 | 6.5 | 4.0 |
| Benewah Lake | 10 | 3 | 8.0 | - |
| St. Joe River | - | 2 | 5.0 | 3.0 |

- No sample taken to Spokane Tribal Laboratory.

Appendix B.22 Total suspended solids (mg/L) results from the hypolimnion taken at eleven stations on Coeur d'Alene Lake, Idaho, 1997.

| Location | Date | | | |
|------------------------|---------|---------|--------------|---------|
| | 8/13/97 | 9/16/97 | 10/20/97 | 11/4/97 |
| Rockford Bay | <2 | 2.0 | <0.5 | <0.5 |
| Windy Bay Shallow | <2 | 2.0 | <0.5 | <0.5 |
| Windy Bay Deep | 2 | 2.0 | <0.5 | 29.0 |
| Coeur d'Alene River | 3 | 2.0 | <0.5 | 1.5 |
| Mid Lake Coeur d'Alene | <2 | 2.0 | 1.0 | 3.0 |
| Carey Bay | 210 | 2.0 | 2.5 | 4.0 |
| Conkling Point | <2 | 2.0 | <0.5 | 7.5 |
| Hidden Lake | 10 | 2.000 | 3.000 3.0 | <0.5 |
| Chatcolet Lake Deep | 20 | 5.0 | 12.5 | <0.5 |
| Benewah Lake | 20 | 7 | - | - |
| St. Joe River | - | 2.0 | 4.5 | <0.5 |

- No sample taken to Spokane Tribal Laboratory.

Appendix B. 23 Total suspended solids (mg/L) results from the epilimnion taken at thirteen stations on Coeur d'Alene Lake, Idaho, 1998.

| Location | 4/28/98 | 6/26/98 | 7/8/98 | Date 8/10/98 | 9/2/98 | 10/20/98 | 11/12/98 |
|------------------------|---------|---------|--------|-----------------|--------|----------|----------|
| Rockford Bay | <2 | 2 | 3 | <2 | <2 | <2 | <2 |
| Windy Bay Shallow | <2 | 3 | 2 | 2 | <2 | <2 | <2 |
| Windy Bay Deep | 5.5 | 2 | 3 | 3 | <2 | <2 | <2 |
| Coeur d'Alene River | 3 | 3 | 2 | <2 | <2 | <2 | <2 |
| Mid Lake Coeur d'Alene | 3 | <2 | 2 | <2 | <2 | <2 | 2.5 |
| Carey Bay | 4 | <2 | 2 | 10 | <2 | 2 | <2 |
| Conkling Point | 3 | <2 | 3 | 2 | <2 | <2 | <2 |
| Hidden Lake | 3 | <2 | 4 | 7.5 | <2 | 6.5 | 3.5 |
| Round Lake | 4.5 | 4 | <2 | <2 | 2.5 | 9 | - |
| Chatcolet Lake Deep | <2 | 2 | 2 | <2 | <2 | 5.5 | 6.75 |
| Chatcolet Lake Shallow | - | 3 | <2 | <2 | <2 | 10.500 | - |
| Benewah Lake | 4 | 4 | 8 | 4.5 | <2 | - | - |
| St. Joe River | 3 | 2 | 2 | 2.5 | <2 | 2.5 | 3.75 |

-No samples taken to Spokane Tribal Lab.

Appendix B.24 Total suspended solids (mg/L) results from the hypolimnion taken at eleven stations on Coeur d'Alene Lake, Idaho, 1998.

| Location | 4/28/98 | 6/26/98 | 7/8/98 | Date 8/10/98 | 9/2/98 | 10/20/98 | 11/12/98 |
|------------------------|---------|---------|--------|-----------------|--------|----------|----------|
| Rockford Bay | 10 | 4 | 3 | 4.5 | 2 | <2 | <2 |
| Windy Bay Shallow | <2 | 3 | <2 | 12 | 3 | 2.5 | <2 |
| Windy Bay Deep | 27 | <2 | 3 | 2.5 | <2 | <2 | <2 |
| Coeur d'Alene River | 8 | 3 | 4 | 2 | 2.5 | 7.75 | 3.75 |
| Mid Lake Coeur d'Alene | <2 | <2 | 14 | <2 | <2 | 4.25 | 3.25 |
| Carey Bay | <2 | <2 | 4 | 10 | 11 | 5.5 | <2 |
| Conkling Point | <2 | <2 | 3 | <2 | 2 | 4.5 | 4.5 |
| Hidden Lake | 47 | 4 | 9 | 11 | 14.5 | - | 3.25 |
| Chatcolet Lake Deep | 28.5 | 141 | 4 | 3 | 3 | 3 | 7 |
| Benewah Lake | 4.5 | 16 | 7 | <2 | 3.5 | - | - |
| St. Joe River | 3.5 | 2 | 9 | 3 | <2 | 2.5 | 3 |

-No samples taken to Spokane Tribal Lab.

Appendix B.25 Turbidity (NTU) results from the epilimnion taken at thirteen stations on Coeur d'Alene Lake, Idaho, 1997.

| Location | Date | | | |
|------------------------|---------|---------|----------|---------|
| | 8/13/97 | 9/16/97 | 10/20/97 | 11/4/97 |
| Rockford Bay | 0.35 | 0.30 | 0.27 | 0.24 |
| Windy Bay Shallow | 0.63 | 0.33 | 0.27 | 0.25 |
| Windy Bay Deep | 0.28 | 0.4 | 0.23 | 0.27 |
| Coeur d'Alene River | 0.87 | 0.51 | 0.51 | 0.43 |
| Mid Lake Coeur d'Alene | 0.33 | 1.99 | 0.84 | 0.38 |
| Carey Bay | 0.56 | 0.84 | 0.88 | 0.49 |
| Conkling Point | 0.54 | 0.96 | 0.76 | 0.86 |
| Hidden Lake | 4.76 | 1.56 | 0.96 | 1.42 |
| Round Lake | 3.820 | 0.45 | 1.88 | 0.93 |
| Chatcolet Lake Deep | 1.01 | 1.39 | 1.08 | 1.61 |
| Chatcolet Lake Shallow | 3.69 | 0.77 | 2.01 | 11.20 |
| Benewah Lake | 5.81 | 1.55 | 1.60 | - |
| St. Joe River | - | 0.62 | 1.87 | 7.86 |

- No sample taken to Spokane Tribal Laboratory.

Appendix B.26 Turbidity (NTU) results from the hypolimnion taken at eleven stations on Coeur d'Alene Lake, Idaho, 1997.

| Location | Date | | | |
|------------------------|---------|---------|----------|---------|
| | 8/13/97 | 9/16/97 | 10/20/97 | 11/4/97 |
| Rockford Bay | 0.6 | 0.37 | 0.24 | 0.27 |
| Windy Bay Shallow | 0.92 | 0.42 | 0.28 | 0.85 |
| Windy Bay Deep | 0.86 | 0.87 | 0.67 | 0.74 |
| Coeur d'Alene River | 1.02 | 0.51 | 0.85 | 0.88 |
| Mid Lake Coeur d'Alene | 1.3 | 0.82 | 1.13 | 0.76 |
| Carey Bay | 1.32 | 1.34 | 2.23 | 0.70 |
| Conkling Point | 1.87 | 2.00 | 0.92 | 1.01 |
| Hidden Lake | 1.31 | 3.60 | 1.06 | 1.39 |
| Chatcolet Lake Deep | 3.52 | 1.90 | 2.63 | 3.68 |
| Benewah Lake | 0.81 | 2.01 | - | - |
| St. Joe River | - | 0.76 | 1.83 | 7.68 |

- No sample taken to Spokane Tribal Laboratory.

Appendix B.27 Turbidity (NTU) results from the epilimnion taken at thirteen stations on Coeur d'Alene Lake, Idaho, 1998.

| Location | 4/28/98 | 6/26/98 | 7/8/98 | Date 8/10/98 | 9/2/98 | 10/20/98 | 11/12/98 |
|------------------------|---------|---------|--------|-----------------|--------|----------|----------|
| Rockford Bay | 0.790 | 1.65 | 0.507 | 1.06 | 0.668 | 0.811 | 0.404 |
| Windy Bay Shallow | 1.700 | 2.61 | 0.492 | 0.505 | 0.956 | 0.832 | 0.536 |
| Windy Bay Deep | 1.560 | 0.89 | 0.667 | 0.316 | 0.592 | 0.68 | 0.403 |
| Coeur d'Alene River | 1.920 | 1.48 | 1.26 | 1.06 | 0.563 | 0.752 | 0.775 |
| Mid Lake Coeur d'Alene | 1.690 | 0.782 | 0.935 | 0.441 | 2.3 | 0.89 | 0.902 |
| Carey Bay | 1.800 | 1.06 | 0.577 | 0.44 | 1.21 | 1.03 | 1.33 |
| Conkling Point | 1.720 | 1.09 | 1.19 | 0.464 | 0.862 | 0.946 | 1.12 |
| Hidden Lake | 2.630 | 1.1 | 1.96 | 5.53 | 0.85 | 2.76 | 2.02 |
| Round Lake | 1.700 | 2.31 | 0.915 | 1.24 | 1.53 | 2 | - |
| Chatcolet Lake Deep | 2.430 | 1.98 | 1.74 | 1.73 | 1.33 | 2.88 | 0.963 |
| Chatcolet Lake Shallow | - | 1.7 | 2.08 | 2.3 | 2.1 | 4.28 | - |
| Benewah Lake | 6.84 | 2.41 | 4.39 | 3.37 | 1.72 | - | - |
| St. Joe River | 1.34 | 1.82 | 0.865 | 1.18 | 1.57 | 2.57 | 2.21 |

-No samples taken to Spokane Tribal Lab.

Appendix B.28 Turbidity (NTU) results from the hypolimnion taken at eleven stations on Coeur d'Alene Lake, Idaho, 1998.

| Location | 4/28/98 | 6/26/98 | 7/8/98 | Date 8/10/98 | 9/2/98 | 10/20/98 | 11/12/98 |
|------------------------|---------|---------|--------|-----------------|--------|----------|----------|
| Rockford Bay | 1.890 | 3.61 | 2.24 | 1.73 | 1.19 | 0.806 | 0.465 |
| Windy Bay Shallow | 1.130 | 3.8 | 4.72 | 6.72 | 1.24 | 1.06 | 0.597 |
| Windy Bay Deep | 12.000 | 1.53 | 1.26 | 0.54 | 1.07 | 0.752 | 0.335 |
| Coeur d'Alene River | 2.680 | 2.85 | 2.16 | 1.31 | 1.65 | 4.21 | 1.74 |
| Mid Lake Coeur d'Alene | 1.340 | 2.88 | 0.947 | 0.89 | 1.98 | 3.2 | 1.42 |
| Carey Bay | 2.090 | 1.6 | 2.06 | 0.722 | 5.06 | 2.27 | 1.21 |
| Conkling Point | 1.700 | 1.93 | 1.38 | 1 | 1.76 | 3.48 | 2.23 |
| Hidden Lake | 6.200 | 4.45 | 4.56 | 9.7 | 18.5 | - | 1.69 |
| Chatcolet Lake Deep | 9.700 | 43.1 | 1.78 | 1.75 | 4.06 | 0.886 | 2.95 |
| Benewah Lake | 8.23 | 12.4 | 9.35 | 4.02 | 3.19 | - | - |
| St. Joe River | 1.920 | 1.96 | 1.1 | 1.9 | 1.6 | 2.19 | 2.01 |

-No samples taken to Spokane Tribal Lab.

Appendix B.29 Results from trace metal analysis (mg/L). Water samples taken from the epilimnion at three sites on Coeur d'Alene Lake, Idaho, 1997.

| Metals | Location | Date | |
|--------|---------------------|----------|---------|
| | | 10/20/97 | 11/4/97 |
| As | Site 1 ^a | <0.050 | <0.050 |
| | Site 2 ^b | <0.050 | <0.050 |
| | Site 3 ^c | <0.050 | <0.050 |
| Ca | Site 1 ^a | 5.92 | 5.81 |
| | Site 2 ^b | 6.70 | 6.94 |
| | Site 3 ^c | 6.73 | 6.94 |
| Cd | Site 1 ^a | <0.010 | <0.010 |
| | Site 2 ^b | <0.010 | <0.010 |
| | Site 3 ^c | <0.010 | <0.010 |
| Fe | Site 1 ^a | 0.054 | <0.020 |
| | Site 2 ^b | 0.043 | 0.108 |
| | Site 3 ^c | 0.065 | 0.102 |
| K | Site 1 ^a | 0.888 | <0.850 |
| | Site 2 ^b | <0.850 | <0.850 |
| | Site 3 ^c | 1.21 | 1.16 |
| Mg | Site 1 ^a | 1.690 | 1.67 |
| | Site 2 ^b | 1.950 | 1.91 |
| | Site 3 ^c | 1.85 | 1.87 |
| Mn | Site 1 ^a | <0.005 | <0.005 |
| | Site 2 ^b | 0.018 | 0.022 |
| | Site 3 ^c | 0.007 | 0.022 |
| Na | Site 1 ^a | 1.51 | 1.48 |
| | Site 2 ^b | 1.61 | 1.59 |
| | Site 3 ^c | 1.58 | 1.68 |
| Pb | Site 1 ^a | <0.001 | <0.001 |
| | Site 2 ^b | 0.004 | 0.005 |
| | Site 3 ^c | 0.002 | 0.003 |
| Si | Site 1 ^a | 5.120 | 5.24 |
| | Site 2 ^b | 5.070 | 4.46 |
| | Site 3 ^c | 4.52 | 4.69 |
| Zn | Site 1 ^a | 0.094 | 0.101 |
| | Site 2 ^b | 0.132 | 0.105 |
| | Site 3 ^c | 0.097 | 0.090 |

^a Station Windy Bay Deep.

^b Station Coeur d'Alene River.

^c Station Mid Lake Coeur d'Alene.

Appendix B.30 Results from trace metal analysis (mg/L). Water samples taken from the hypolimnion at three sites on Coeur d'Alene Lake, Idaho, 1997.

| Metals | Location | Date | |
|--------|---------------------|----------|---------|
| | | 10/20/97 | 11/4/97 |
| As | Site 1 ^a | <0.050 | <0.050 |
| | Site 2 ^b | <0.050 | <0.050 |
| | Site 3 ^c | <0.050 | <0.050 |
| Ca | Site 1 ^a | 5.48 | 6.07 |
| | Site 2 ^b | 7.38 | 6.92 |
| | Site 3 ^c | 6.95 | 5.59 |
| Cd | Site 1 ^a | <0.010 | <0.010 |
| | Site 2 ^b | <0.010 | <0.010 |
| | Site 3 ^c | <0.010 | <0.010 |
| Fe | Site 1 ^a | 0.066 | 0.681 |
| | Site 2 ^b | 0.134 | 0.145 |
| | Site 3 ^c | 0.108 | 0.140 |
| K | Site 1 ^a | <0.850 | <0.850 |
| | Site 2 ^b | <0.850 | <0.850 |
| | Site 3 ^c | <0.850 | <0.850 |
| Mg | Site 1 ^a | 1.660 | 1.81 |
| | Site 2 ^b | 2.320 | 2.34 |
| | Site 3 ^c | 1.86 | 1.67 |
| Mn | Site 1 ^a | 0.013 | 0.183 |
| | Site 2 ^b | 0.050 | 0.058 |
| | Site 3 ^c | 0.019 | 0.037 |
| Na | Site 1 ^a | 1.72 | 1.64 |
| | Site 2 ^b | 1.78 | 1.53 |
| | Site 3 ^c | 1.65 | 1.67 |
| Pb | Site 1 ^a | 0.003 | 0.032 |
| | Site 2 ^b | 0.013 | 0.016 |
| | Site 3 ^c | <0.001 | 0.004 |
| Si | Site 1 ^a | 6.740 | 5.97 |
| | Site 2 ^b | 4.710 | 4.68 |
| | Site 3 ^c | 4.78 | 6.42 |
| Zn | Site 1 ^a | 0.133 | 0.159 |
| | Site 2 ^b | 0.185 | 0.226 |
| | Site 3 ^c | 0.078 | 0.124 |

^a Station Windy Bay Deep.

^b Station Coeur d'Alene River.

^c Station Mid Lake Coeur d'Alene.

Appendix B.31 Results from trace metal analysis. Water samples taken from the epilimnion at three sites on Coeur d'Alene Lake, Idaho, 1998.

| Metals | Location | 4/28/98 | 6/26/98 | 7/8/98 | Date 8/10/98 | 9/2/98 | 10/20/98 | 11/12/98 |
|--------|---------------------|---------|---------|--------|-----------------|--------|----------|----------|
| | | | | | | | | |
| As | Site 1 ^a | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| | Site 2 ^b | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| | Site 3 ^c | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| Ca | Site 1 ^a | 6.007 | 5.955 | 5.768 | 6.306 | 6.176 | 6.609 | 6.231 |
| | Site 2 ^b | 4.923 | 6.16 | 6.48 | 7.58 | 6.317 | 7.722 | 7 |
| | Site 3 ^c | 5.623 | 5.638 | 5.842 | 6.844 | 6.532 | 7.473 | 6.591 |
| Cd | Site 1 ^a | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| | Site 2 ^b | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.0059 |
| | Site 3 ^c | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Fe | Site 1 ^a | 0.130 | 0.013 | 0.1291 | 0.0177 | 0.0376 | 0.0252 | 0.0214 |
| | Site 2 ^b | 0.175 | <0.010 | 0.1048 | 0.0984 | 0.0379 | 0.0912 | 0.074 |
| | Site 3 ^c | 0.162 | 0.0104 | 0.0664 | 0.0399 | 0.0707 | 0.0558 | 0.0783 |
| K | Site 1 ^a | <0.900 | <0.900 | <0.900 | <0.900 | <0.900 | <0.900 | <0.900 |
| | Site 2 ^b | <0.900 | <0.900 | <0.900 | <0.900 | <0.900 | <0.900 | 1.023 |
| | Site 3 ^c | <0.900 | <0.900 | <0.900 | <0.900 | <0.900 | 1.535 | <0.900 |
| Mg | Site 1 ^a | 1.869 | 1.54 | 1.643 | 1.768 | 1.757 | 1.956 | 1.765 |
| | Site 2 ^b | 1.688 | 1.448 | 1.803 | 2.178 | 1.776 | 2.306 | 1.92 |
| | Site 3 ^c | 1.431 | 1.459 | 1.532 | 1.804 | 1.768 | 2.092 | 1.734 |
| Mn | Site 1 ^a | 0.017 | <0.003 | 0.0371 | 0.0044 | 0.0071 | 0.0072 | 0.0083 |
| | Site 2 ^b | 0.053 | <0.003 | 0.0274 | 0.0355 | 0.0089 | 0.0273 | 0.0298 |
| | Site 3 ^c | 0.017 | <0.003 | 0.0125 | 0.0073 | 0.0134 | 0.0054 | 0.035 |
| Na | Site 1 ^a | 1.848 | 1.355 | 1.469 | 1.58 | 1.559 | 1.597 | 1.586 |
| | Site 2 ^b | 1.256 | 1.315 | 1.495 | 1.717 | 1.588 | 1.783 | 1.819 |
| | Site 3 ^c | 1.458 | 1.348 | 1.413 | 1.641 | 1.605 | 1.886 | 1.505 |
| Pb | Site 1 ^a | 0.005 | 0.002 | 0.007 | <0.001 | <0.001 | 0.002 | <0.001 |
| | Site 2 ^b | 0.021 | 0.002 | 0.007 | 0.011 | 0.002 | 0.007 | 0.002 |
| | Site 3 ^c | 0.002 | <0.001 | 0.002 | <0.001 | 0.004 | 0.003 | 0.002 |
| Si | Site 1 ^a | 5.323 | 4.246 | 4.17 | 3.956 | 3.816 | 3.659 | 3.43 |
| | Site 2 ^b | 4.646 | 4.458 | 4.154 | 3.927 | 3.492 | 3.392 | 3.27 |
| | Site 3 ^c | 5.423 | 4.193 | 4.066 | 4.1 | 3.681 | 3.311 | 3.029 |
| Zn | Site 1 ^a | 0.114 | 0.0706 | 0.0847 | 0.0668 | 0.0537 | 0.0782 | 0.0702 |
| | Site 2 ^b | 0.140 | 0.0393 | 0.0728 | 0.0914 | 0.0498 | 0.124 | 0.0693 |
| | Site 3 ^c | 0.037 | 0.055 | 0.0532 | 0.0583 | 0.0546 | 0.0664 | 0.0611 |

^a Station Windy Bay Deep.

^b Station Coeur d'Alene River.

^c Station Mid Lake Coeur d'Alene.

Appendix B.32 Results from trace metal analysis. Water samples taken from the hypolimnion at three sites on Coeur d'Alene Lake, Idaho, 1998.

| Metals | Location | Date | | | | | | |
|--------|---------------------|---------|---------|--------|---------|--------|----------|----------|
| | | 4/28/98 | 6/26/98 | 7/8/98 | 8/10/98 | 9/2/98 | 10/20/98 | 11/12/98 |
| As | Site 1 ^a | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| | Site 2 ^b | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| | Site 3 ^c | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| Ca | Site 1 ^a | 5.909 | 5.744 | 5.66 | 5.909 | 5.576 | 6.105 | 6.21 |
| | Site 2 ^b | 5.062 | 5.984 | 5.594 | 5.727 | 6.888 | 8.355 | 7.218 |
| | Site 3 ^c | 6.085 | 5.691 | 5.313 | 6.339 | 5.539 | 6.068 | 6.485 |
| Cd | Site 1 ^a | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| | Site 2 ^b | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| | Site 3 ^c | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.0078 |
| Fe | Site 1 ^a | 0.126 | 0.0152 | 0.0737 | 0.0839 | 0.1562 | 0.0273 | 0.0205 |
| | Site 2 ^b | 0.369 | 0.0152 | 0.1564 | 0.0882 | 0.1475 | 0.453 | 0.0645 |
| | Site 3 ^c | 0.115 | 0.0133 | 0.2067 | 0.0502 | 0.0536 | 0.2738 | 0.0825 |
| K | Site 1 ^a | <0.900 | 0.908 | <0.900 | <0.900 | <0.900 | 1.025 | <0.900 |
| | Site 2 ^b | <0.900 | <0.900 | <0.900 | <0.900 | <0.900 | 1.407 | <0.900 |
| | Site 3 ^c | <0.900 | <0.900 | <0.900 | <0.900 | <0.900 | 1.03 | <0.900 |
| Mg | Site 1 ^a | 1.866 | 1.58 | 1.713 | 1.715 | 1.667 | 1.845 | 1.758 |
| | Site 2 ^b | 1.744 | 1.441 | 1.607 | 1.62 | 1.906 | 2.651 | 1.978 |
| | Site 3 ^c | 1.895 | 1.527 | 1.51 | 1.72 | 1.551 | 1.816 | 1.865 |
| Mn | Site 1 ^a | 0.033 | <0.003 | 0.0081 | 0.0274 | 0.0526 | 0.0126 | 0.0136 |
| | Site 2 ^b | 0.080 | <0.003 | 0.0395 | 0.0371 | 0.0294 | 0.0992 | 0.0309 |
| | Site 3 ^c | 0.012 | <0.003 | 0.0419 | 0.0564 | 0.0406 | 0.2789 | 0.0768 |
| Na | Site 1 ^a | 1.728 | 1.536 | 1.671 | 1.66 | 1.645 | 1.623 | 1.634 |
| | Site 2 ^b | 1.290 | 1.389 | 1.421 | 1.502 | 1.638 | 2.093 | 1.666 |
| | Site 3 ^c | 1.730 | 1.537 | 1.492 | 1.626 | 1.521 | 1.683 | 1.724 |
| Pb | Site 1 ^a | 0.005 | 0.002 | 0.001 | 0.005 | 0.003 | 0.002 | <0.001 |
| | Site 2 ^b | 0.058 | 0.007 | 0.015 | 0.013 | 0.013 | 0.063 | 0.002 |
| | Site 3 ^c | 0.005 | <0.001 | 0.001 | 0.002 | 0.004 | 0.006 | 0.003 |
| Si | Site 1 ^a | 5.225 | 4.687 | 4.759 | 4.476 | 4.605 | 4.522 | 4.044 |
| | Site 2 ^b | 4.663 | 4.616 | 4.092 | 3.773 | 3.765 | 3.467 | 3.347 |
| | Site 3 ^c | 5.223 | 4.703 | 4.659 | 4.456 | 4.367 | 5.317 | 4.217 |
| Zn | Site 1 ^a | 0.131 | 0.1011 | 0.1077 | 0.1213 | 0.1261 | 0.1077 | 0.0965 |
| | Site 2 ^b | 0.159 | 0.0585 | 0.0873 | 0.0881 | 0.0681 | 0.2367 | 0.0734 |
| | Site 3 ^c | 0.122 | 0.0748 | 0.0788 | 0.0949 | 0.0962 | 0.1147 | 0.1096 |

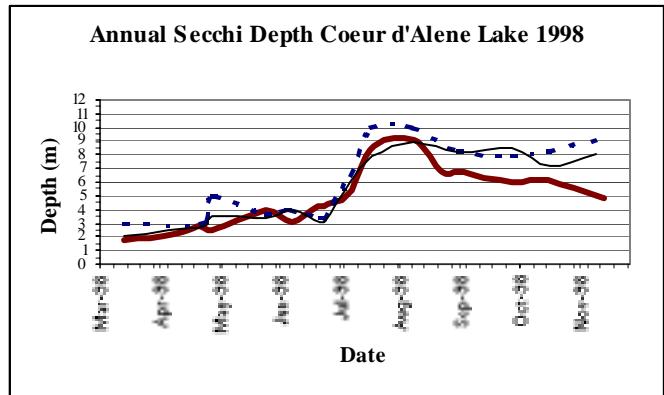
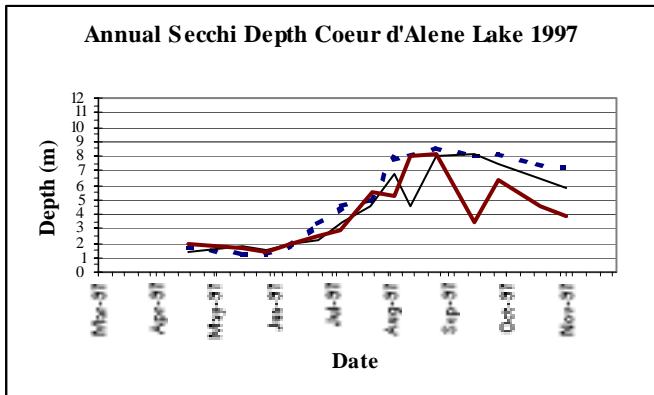
^a Station Windy Bay Deep.

^b Station Coeur d'Alene River.

^c Station Mid Lake Coeur d'Alene.

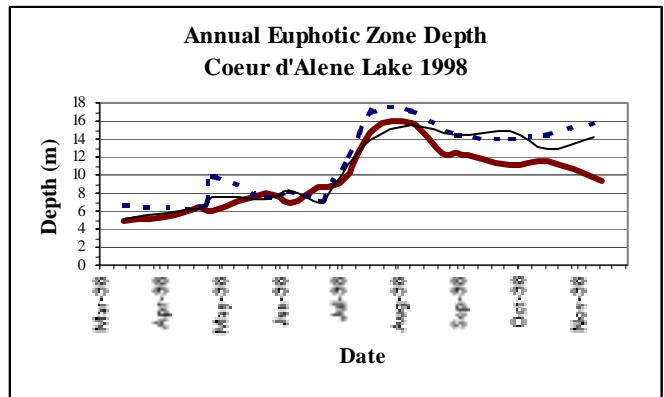
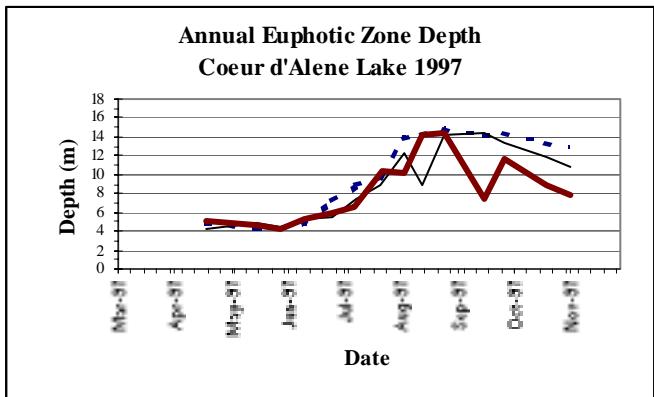
Appendix C

Secchi readings and empirically derived estimates of euphotic zone depth for thirteen stations in Coeur d'Alene Lake, 1997 and 1998.



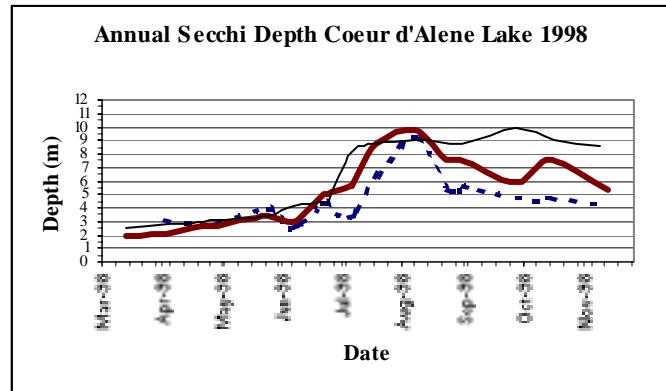
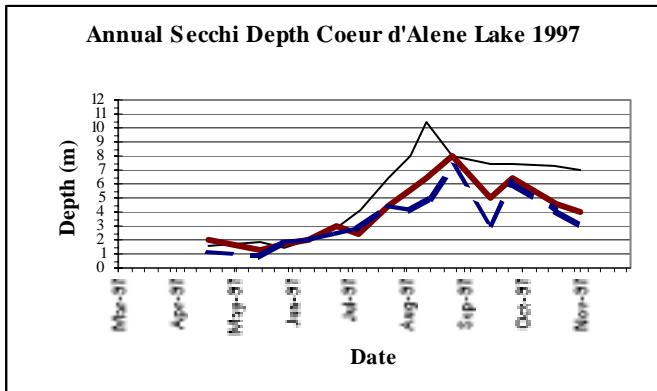
Rockford Bay - - - - - Carey Bay — Windy Bay Shallow ——————

Appendix C.1 Annual secchi readings (SD) for three geomorphology similar sampling locations on Coeur d'Alene Lake during 1997 and 1998.



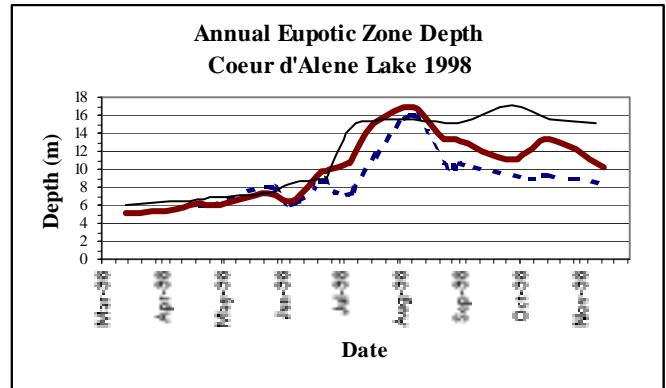
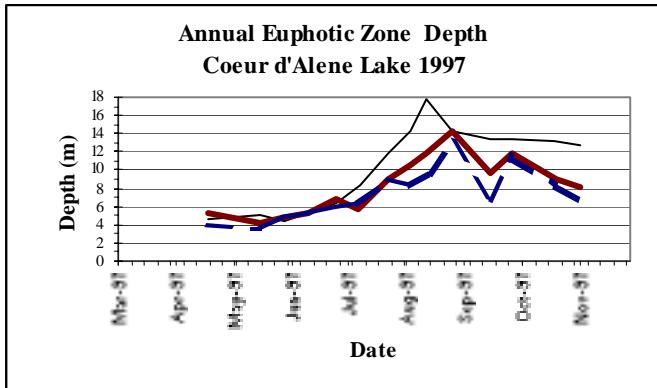
Rockford Bay - - - - - Carey Bay — Windy Bay Shallow ——————

Appendix C.2 Empirically derived estimate of euphotic zone depth (EZD) during 1997 and 1998. Values are calculated using the following regression equation published by Alaska Department of Fish and Game (1987): EZD=2.2303 + 1.4914SD ($r^2 = .78$).



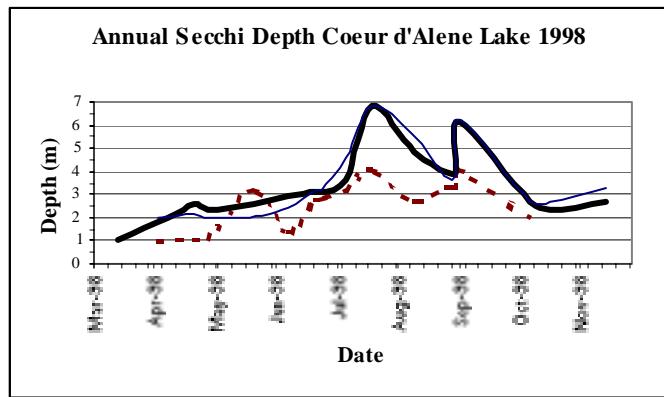
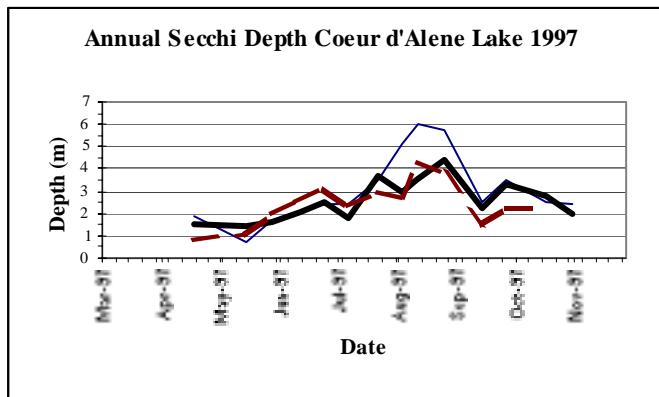
Conkling Point - - - - - Mid Lake Coeur d'Alene — Windy Bay Deep

Appendix C.3 Annual secchi readings (SD) for three geomorphology similar sampling locations on Coeur d'Alene Lake during 1997 and 1998.



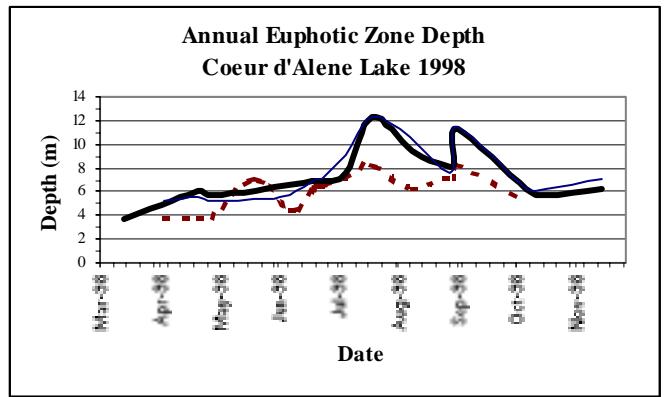
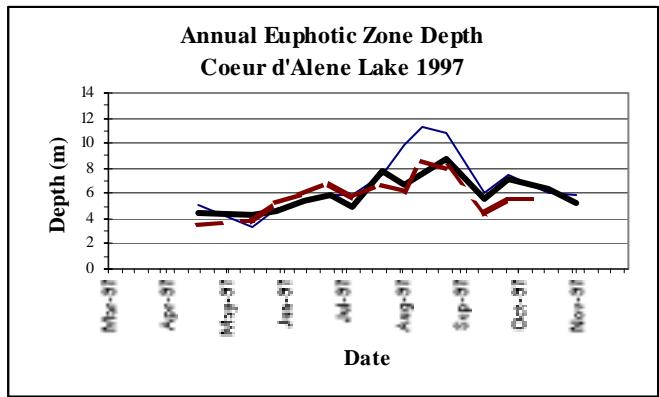
Conkling Point - - - - - Mid Lake Coeur d'Alene — Windy Bay Deep

Appendix C.4 Empirically derived estimate of euphotic zone depth (EZD) during 1997 and 1998. Values are calculated using the following regression equation published by Alaska Department of Fish and Game (1987): EZD=2.2303 + 1.4914SD ($r^2 = .78$).



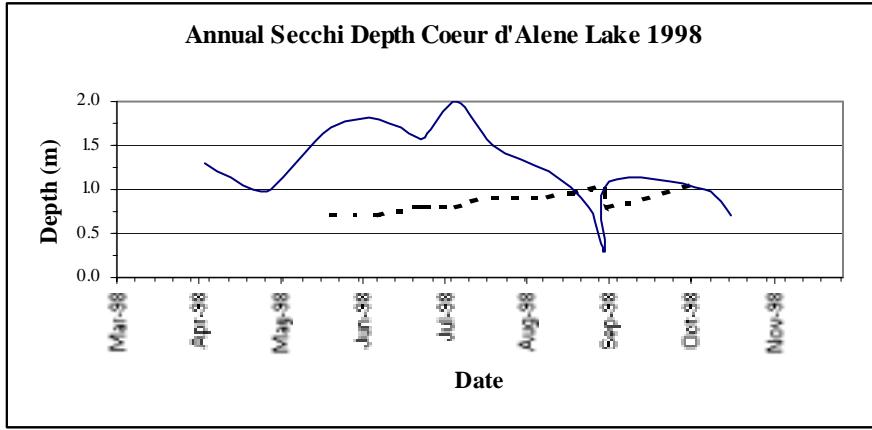
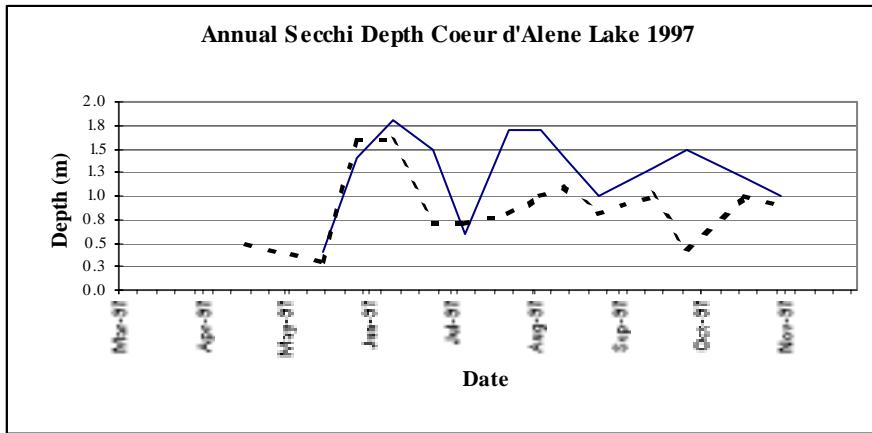
Benewah Lake ——— Chatcolet Lake Deep ——— Hidden Lake ——————

Appendix C.5 Annual secchi readings (SD) for three geomorphology similar sampling locations on Coeur d'Alene Lake during 1997 and 1998.



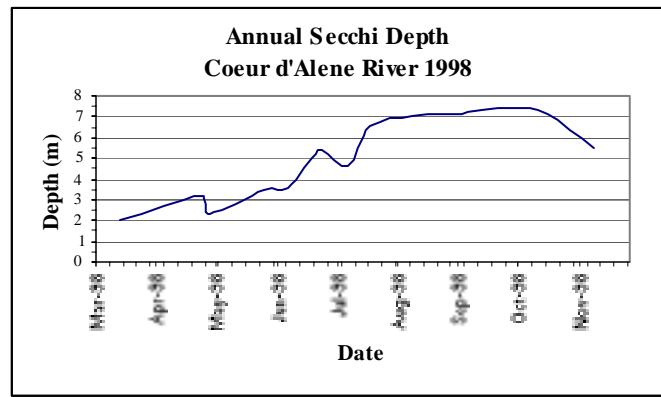
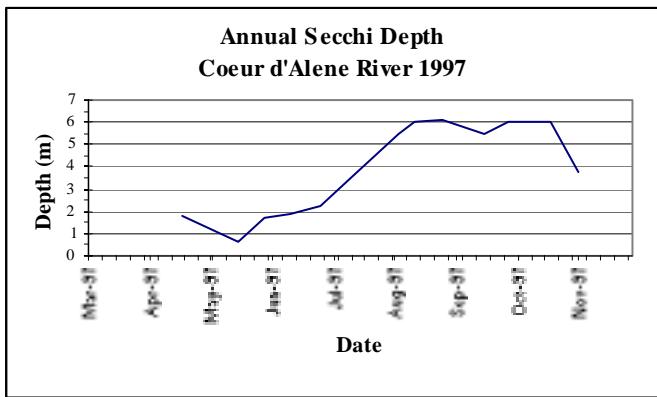
Benewah Lake ——— Chatcolet Lake Deep ——— Hidden Lake ——————

Appendix C.6 Empirically derived estimate of euphotic zone depth (EZD) during 1997 and 1998. Values are calculated using the following regression equation published by Alaska Department of Fish and Game (1987): EZD=2.2303 + 1.4914SD ($r^2 = .78$).

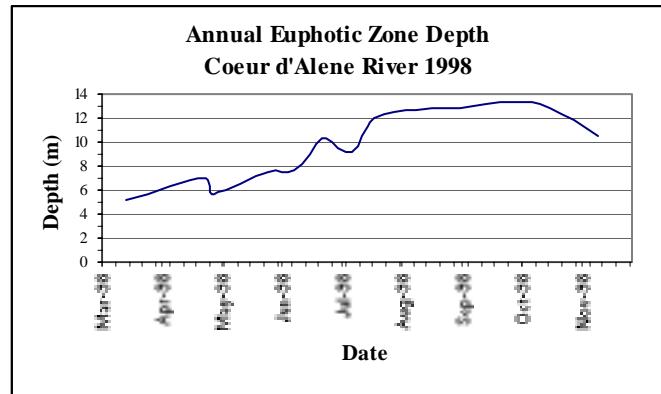
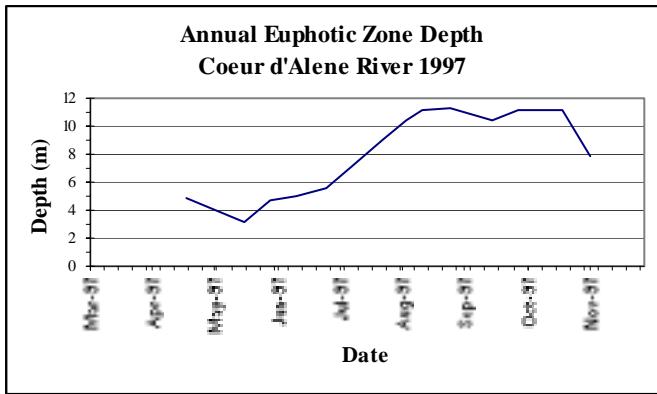


Chatcolet Lake Shallow ————— Round Lake ——————

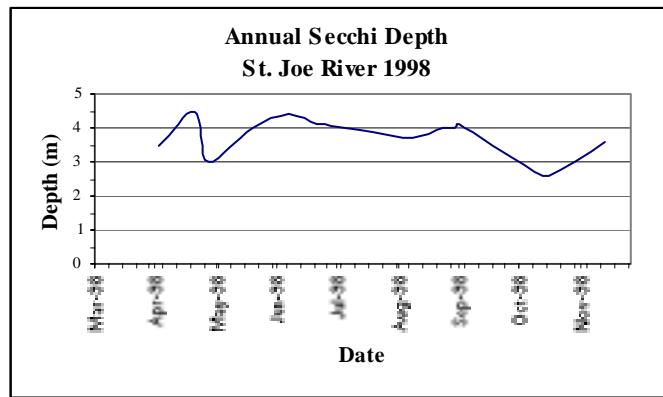
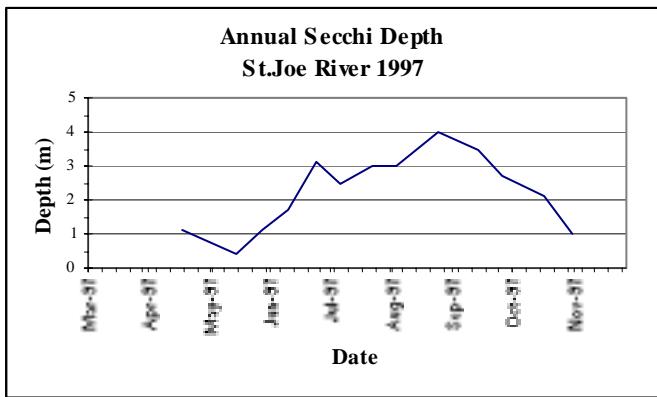
Appendix C.7 Annual secchi readings (SD) for two geomorphically similar sampling locations on Coeur d'Alene Lake during 1997 and 1998. Due to the shallowness of these lakes, the euphotic zone depth encompasses the entire water column.



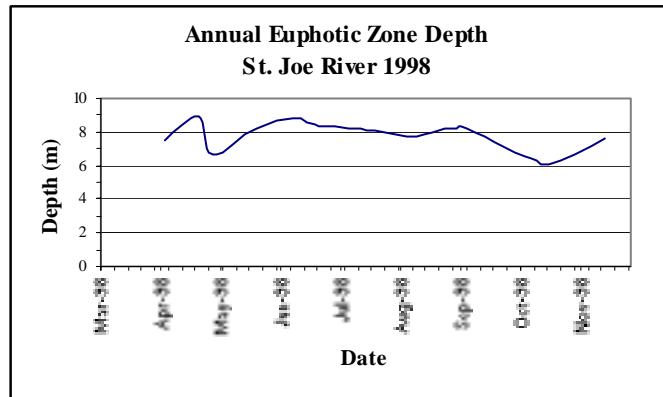
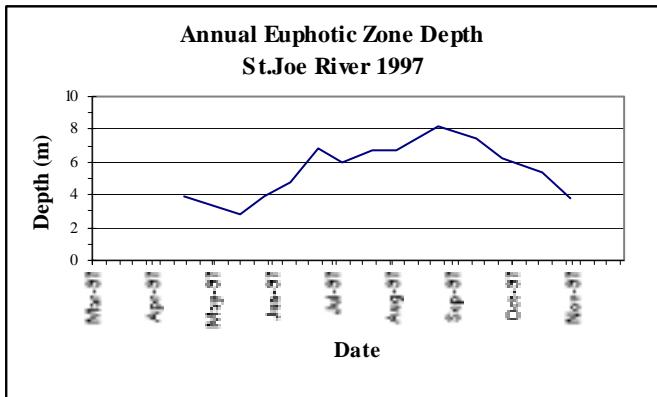
Appendix C.8 Annual secchi readings (SD) for the mouth of the Coeur d'Alene River during 1997 and 1998.



Appendix C.9 Empirically derived estimate of euphotic zone depth (EZD). Values are calculated using the following regression equation published by Alaska Department of Fish and Game (1987):
 $EZD = 2.2303 + 1.4914SD$ ($r^2 = .78$).



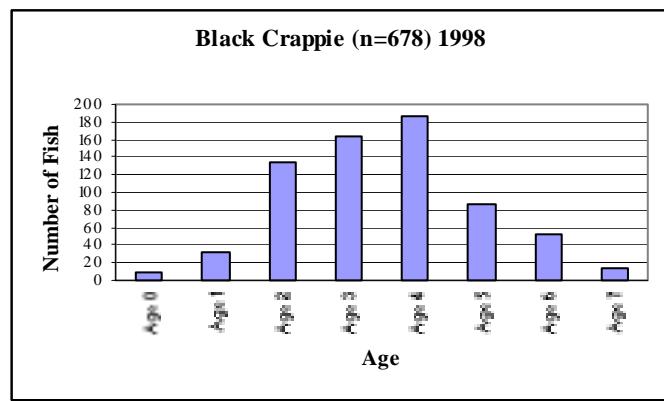
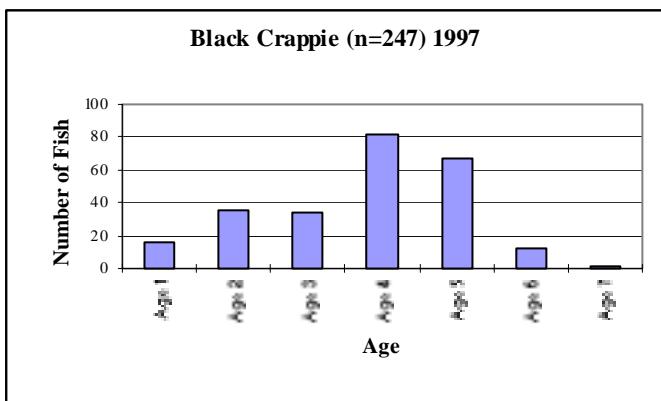
Appendix C.10 Annual secchi readings (SD) for the mouth of the St. Joe River during 1997 and 1998.



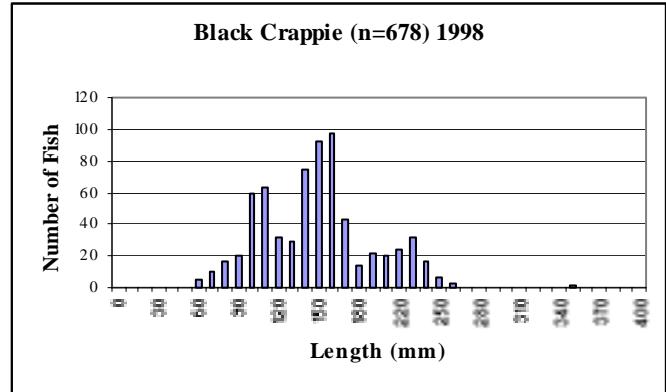
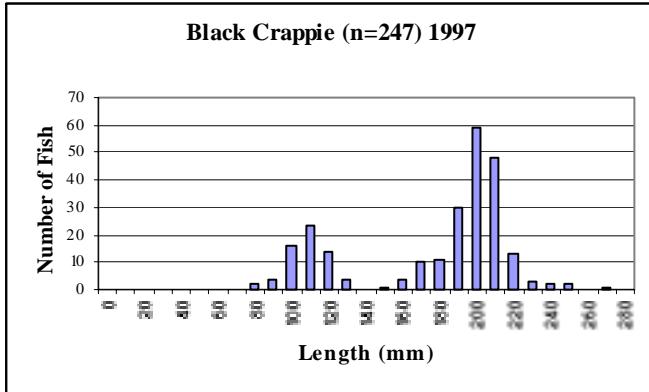
Appendix C.11 Empirically derived estimate of euphotic zone depth (EZD). Values are calculated using the following regression equation published by Alaska Department of Fish and Game (1987):
 $EZD = 2.2303 + 1.4914SD$ ($r^2 = .78$).

Appendix D

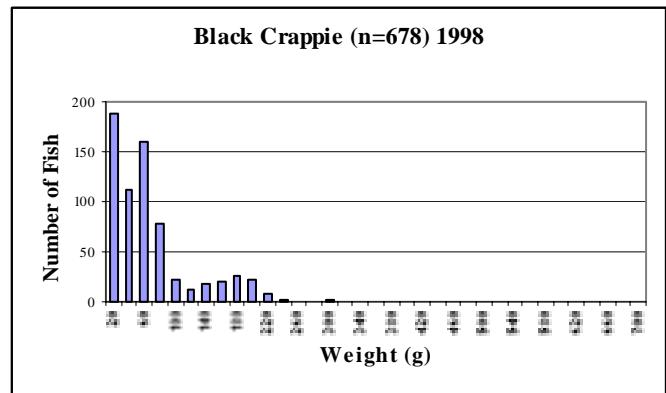
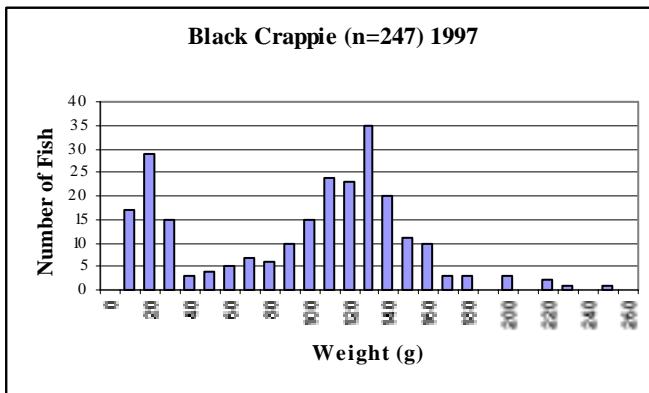
Age distribution, length and weight frequencies and length and weight regression graphs for aged fish species sampled in Coeur d'Alene Lake, 1997 and 1998.



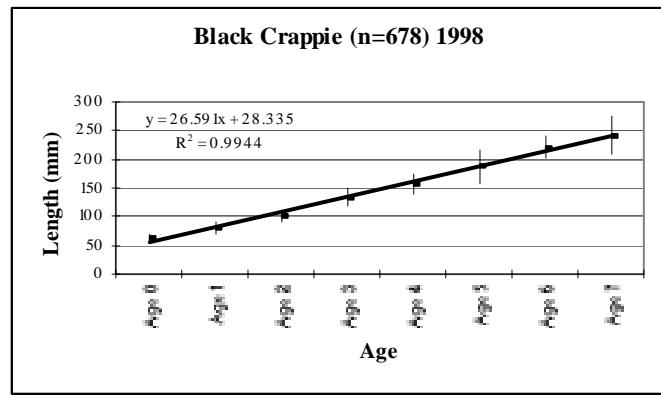
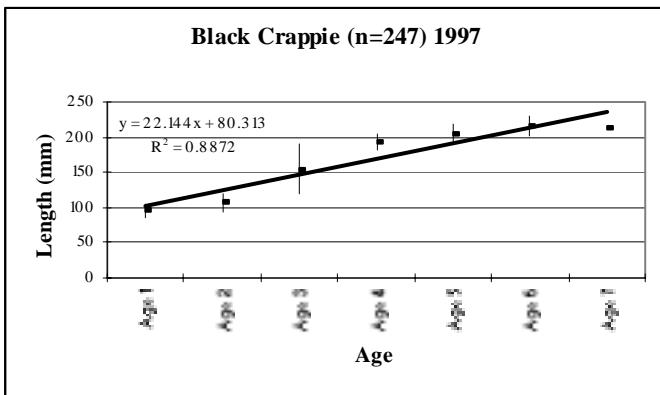
Appendix D.1 Age distribution of the number of Black Crappie versus age, in 1997 and 1998.



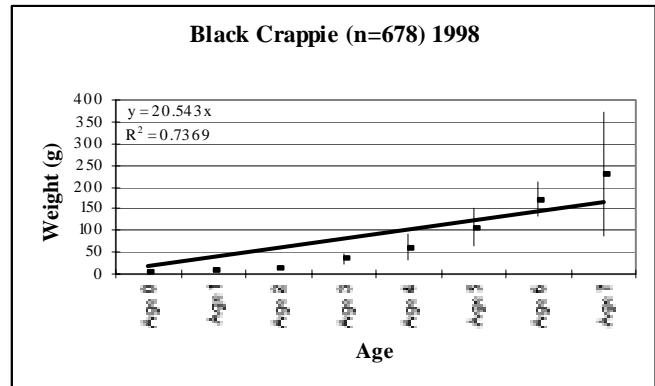
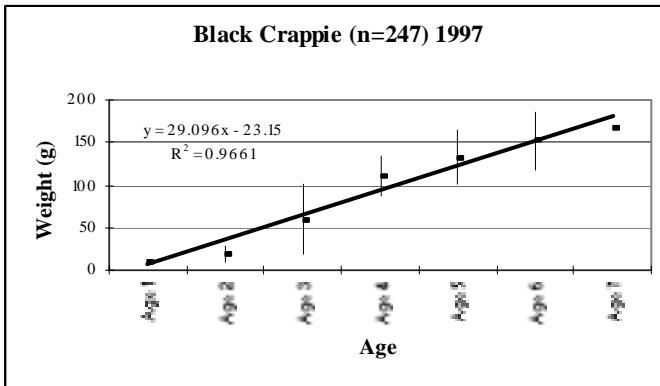
Appendix D.2 Frequency distribution of the number of Black Crappie sampled versus body length in 1997 and 1998.



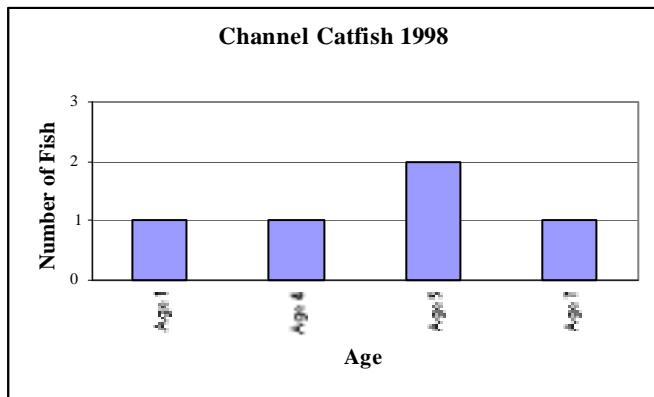
Appendix D.3 Frequency distribution of the number of Black Crappie sampled versus weight in 1997 and 1998.



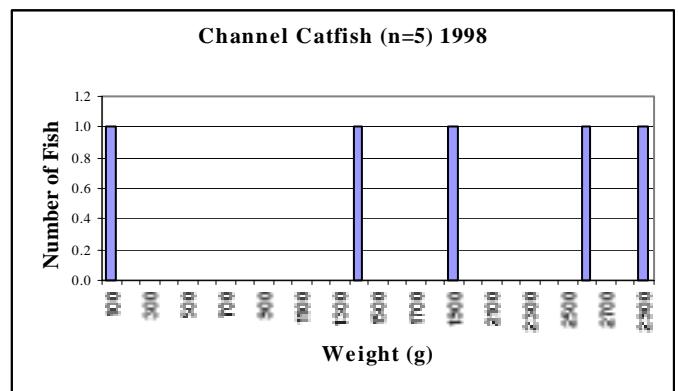
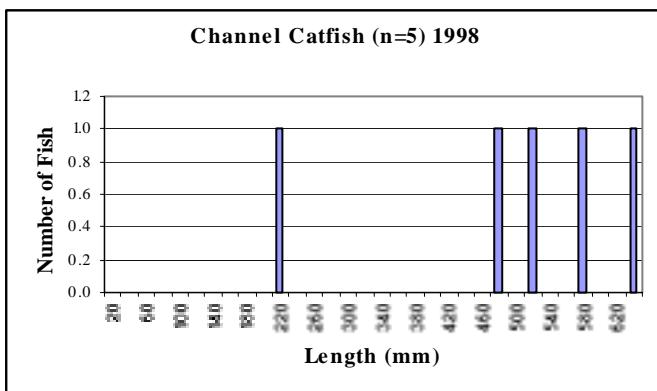
Appendix D.4 Regression equations of body length versus age for Black Crappie, in 1997 and 1998.



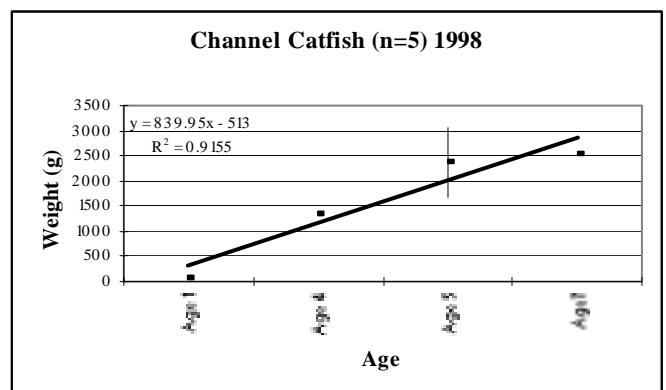
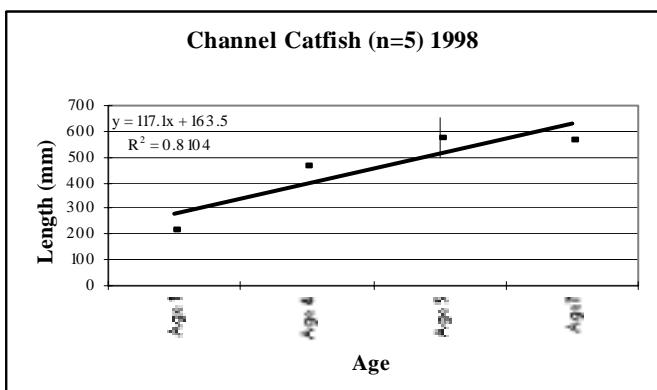
Appendix D.5 Regression equations of weight versus age for Black Crappie, in 1997 and 1998.



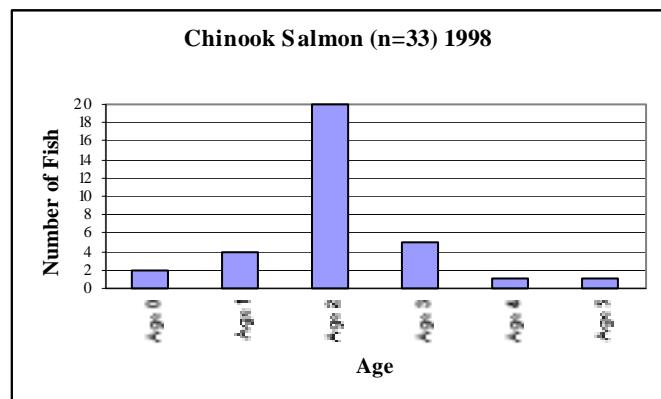
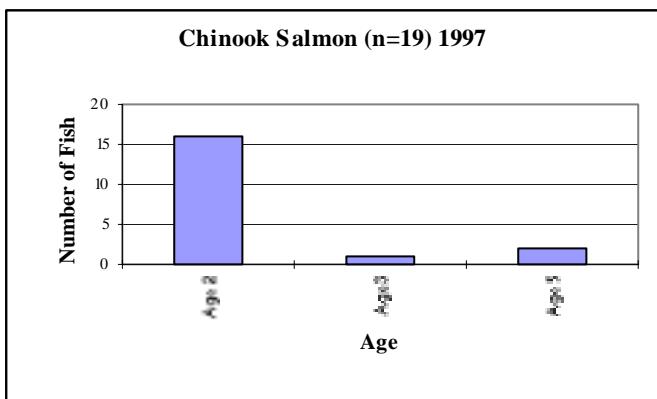
Appendix D.6 Age distribution of the number of Channel Catfish sampled versus age in 1998.



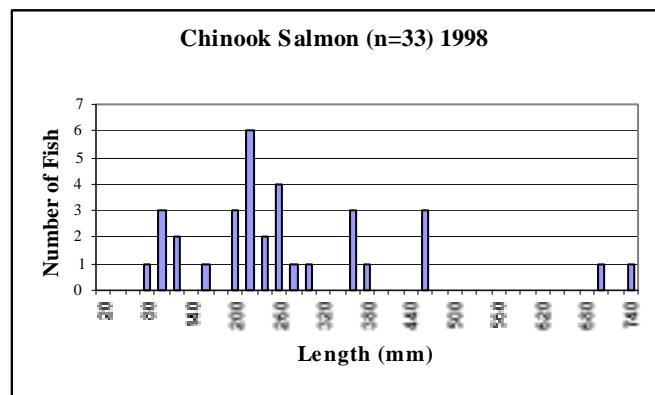
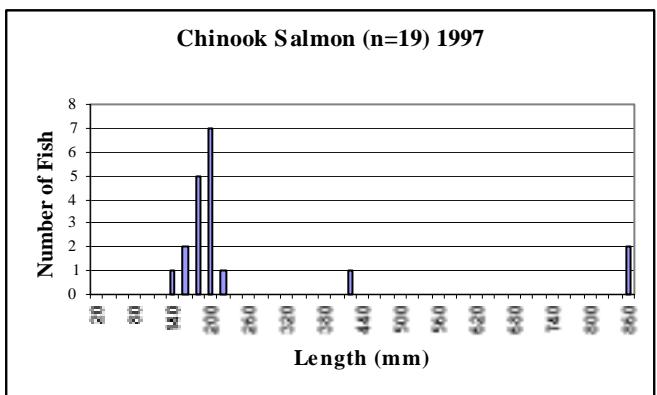
Appendix D.7 Frequency distribution of the number of Channel Catfish sampled versus body length and weight in 1998.



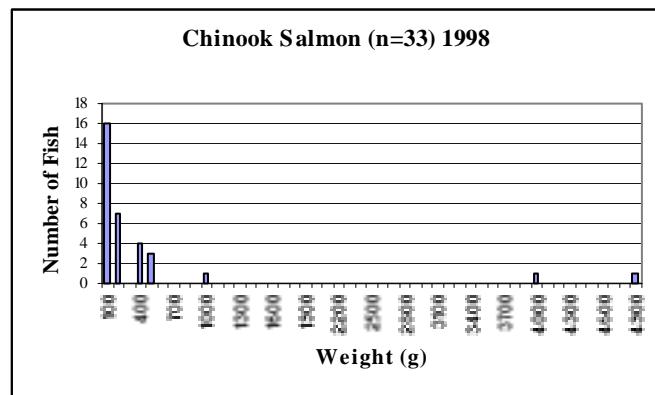
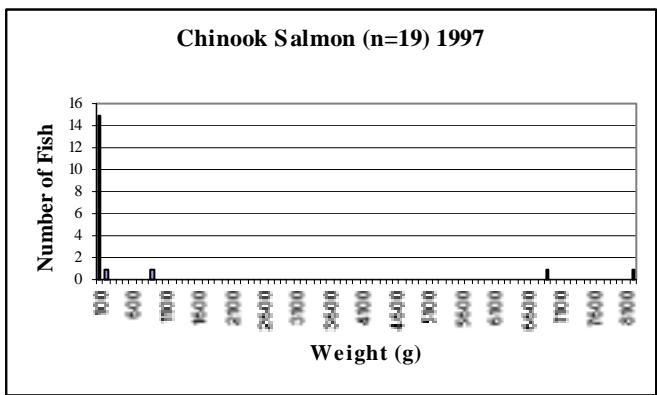
Appendix D.8 Regression equations of body length and weight versus age for Channel Catfish, in 1998.



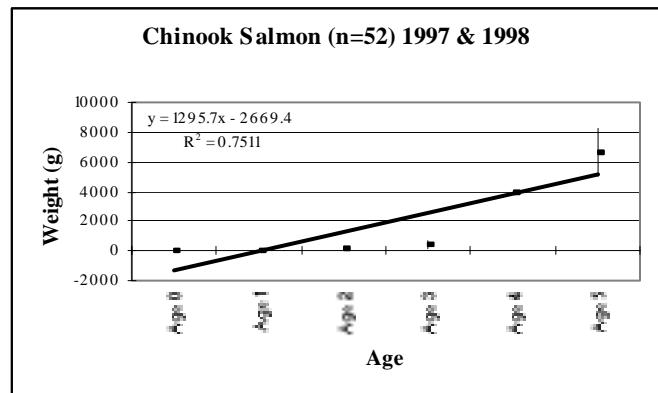
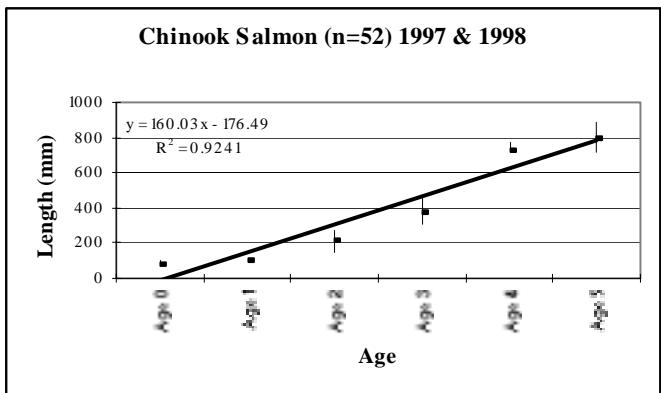
Appendix D.9 Age distribution of the number of Chinook Salmon sampled versus age in 1997 and 1998.



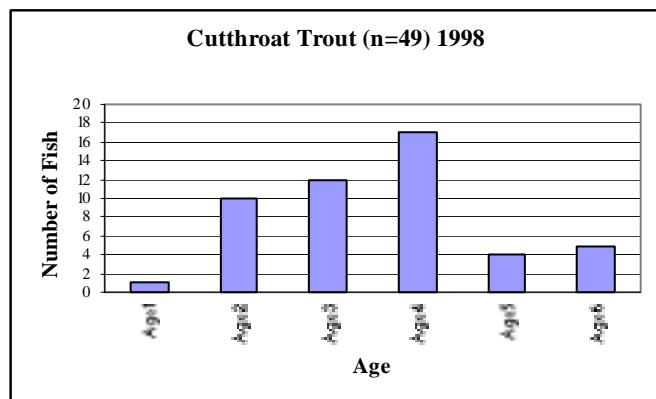
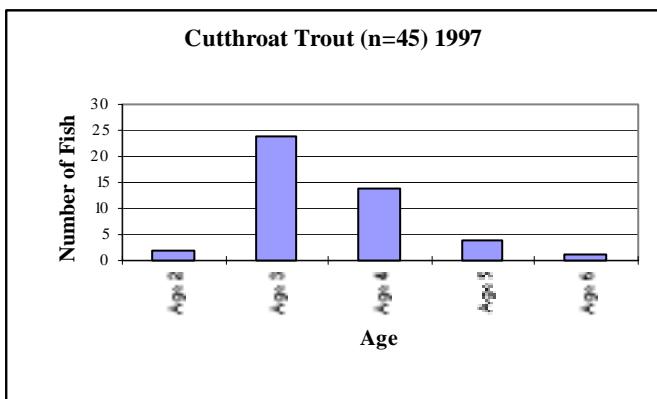
Appendix D.10 Frequency distribution of the number of Chinook Salmon sampled versus body length in 1997 and 1998.



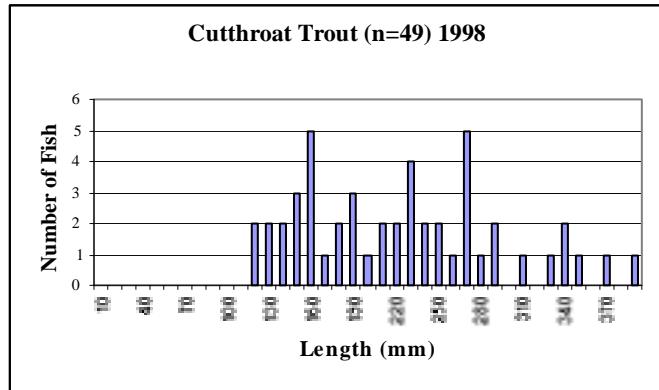
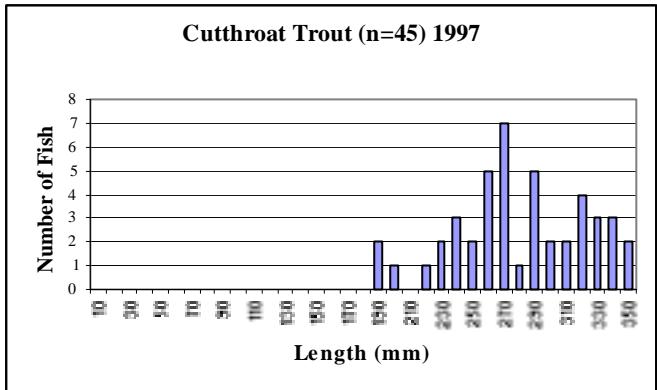
Appendix D.11 Frequency distribution of the number of Chinook Salmon sampled versus weight in 1997 and 1998.



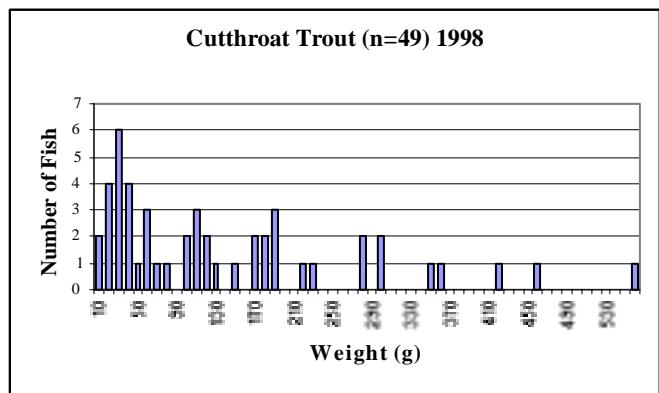
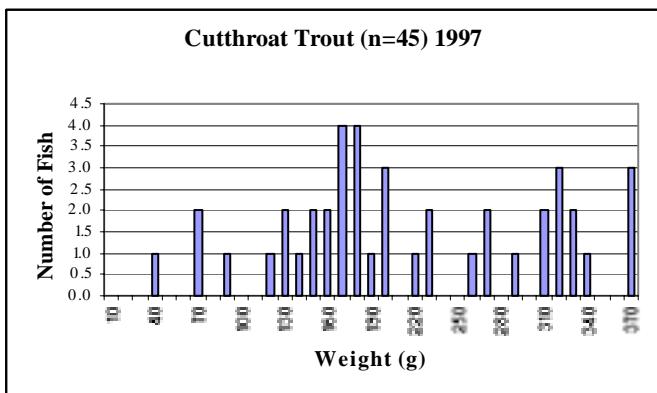
Appendix D.12 Regression equations of body length and weight versus age for Chinook Salmon, combined 1997 and 1998 data.



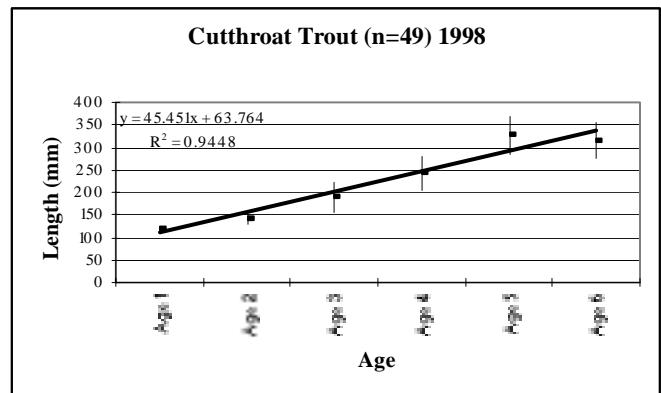
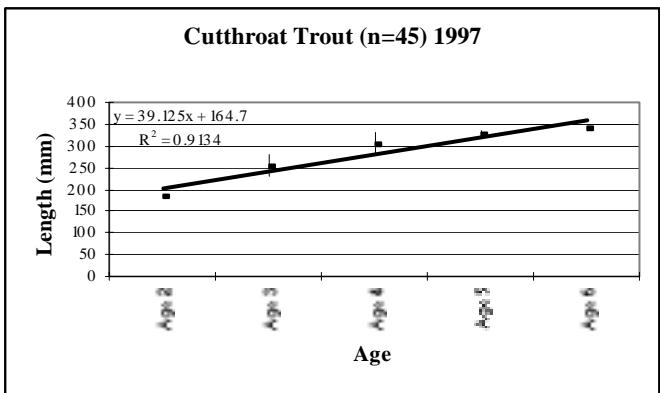
Appendix D.13 Age distribution of the number of Cutthroat Trout sampled versus age in 1997 and 1998.



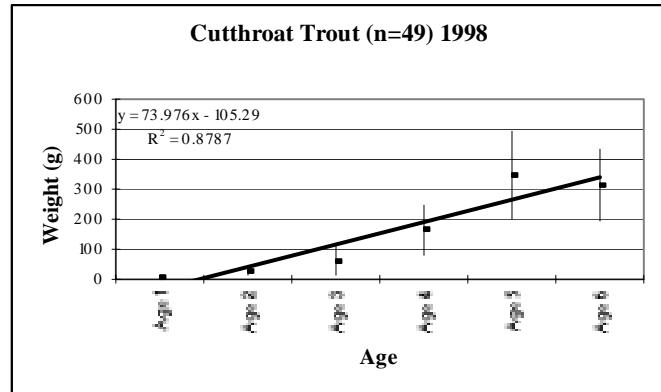
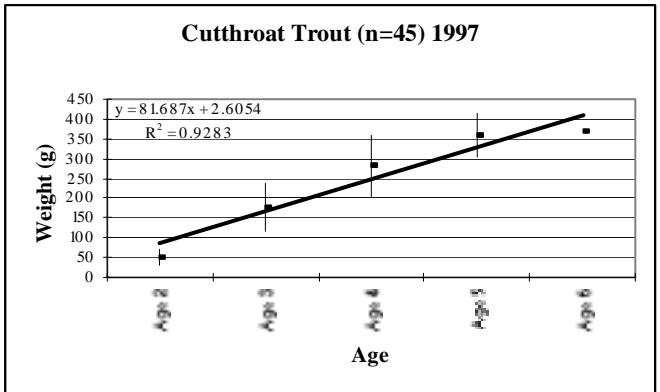
Appendix D.14 Frequency distribution of the number of Cutthroat Trout sampled versus body length in 1997 and 1998.



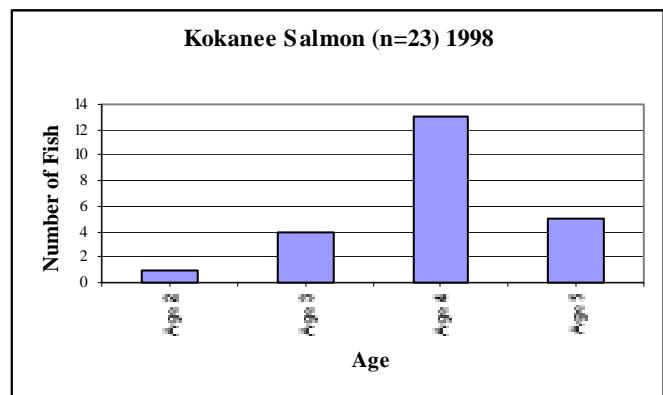
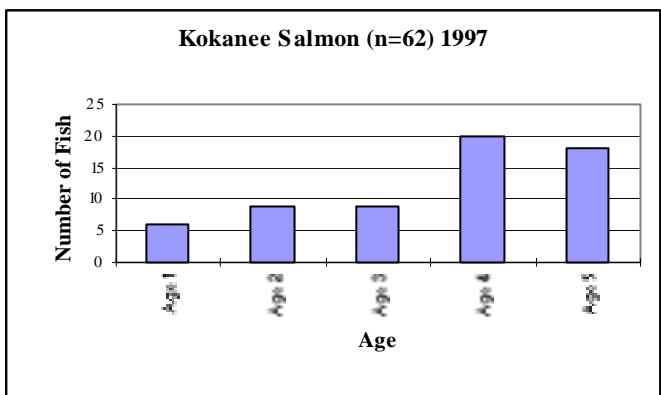
Appendix D.15 Frequency distribution of the number of Cutthroat Trout sampled versus weight in 1997 and 1998.



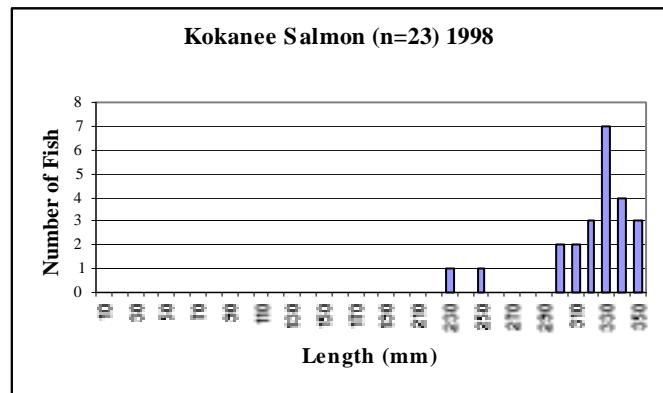
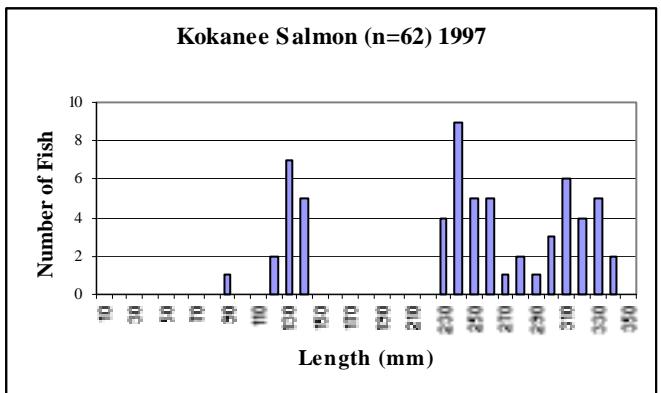
Appendix D.16 Regression equations of body length versus age for Cutthroat Trout, in 1997 and 1998.



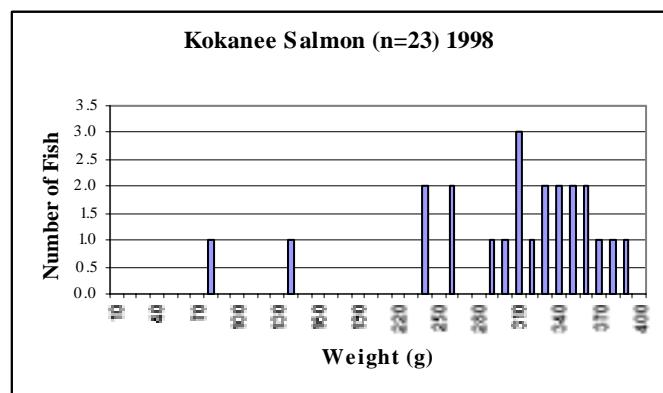
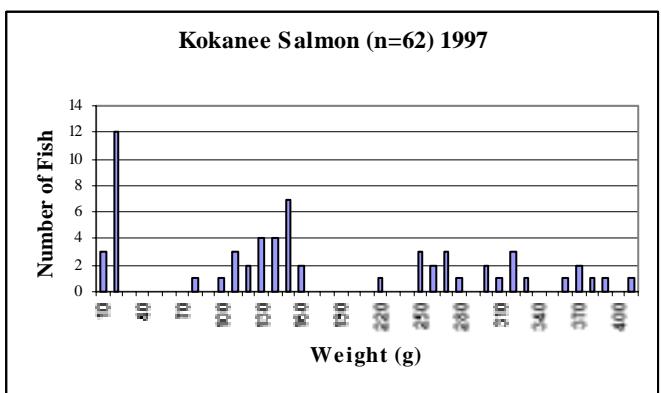
Appendix D.17 Regression equations of weight versus age for Cutthroat Trout, in 1997 and 1998.



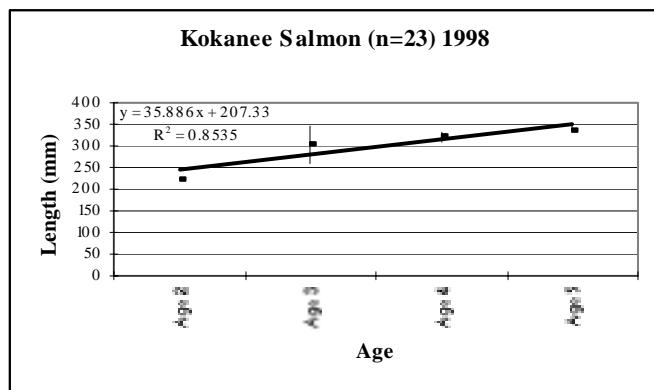
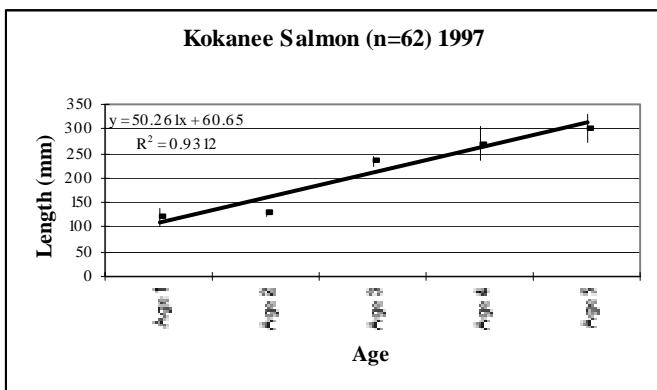
Appendix D.18 Age distribution of the number of Kokanee Salmon sampled versus age in 1997 and 1998.



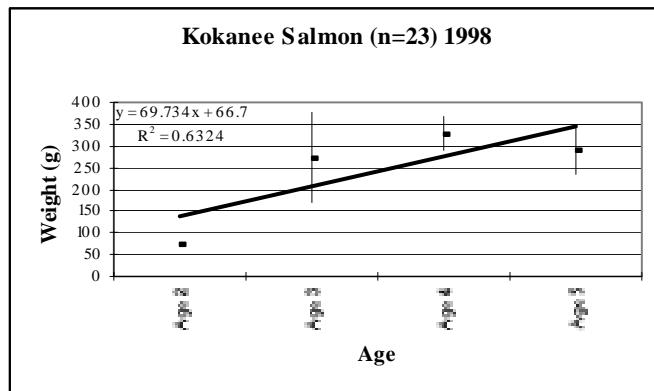
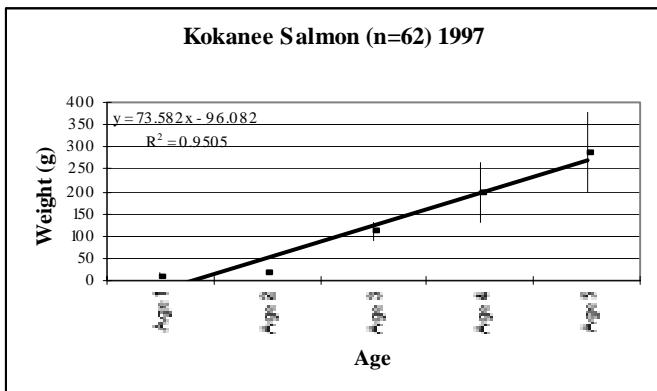
Appendix D.19 Frequency distribution of the number of Kokanee Salmon sampled versus body length in 1997 and 1998.



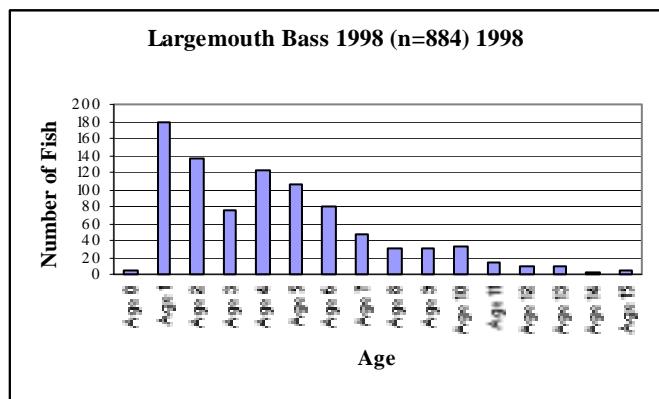
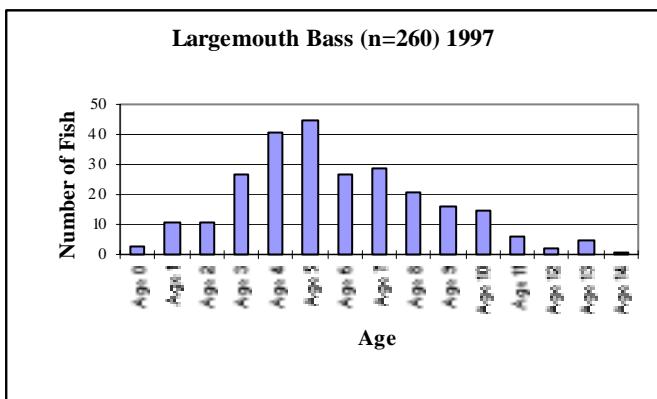
Appendix D.20 Frequency distribution of the number of Kokanee Salmon sampled versus weight in 1997 and 1998.



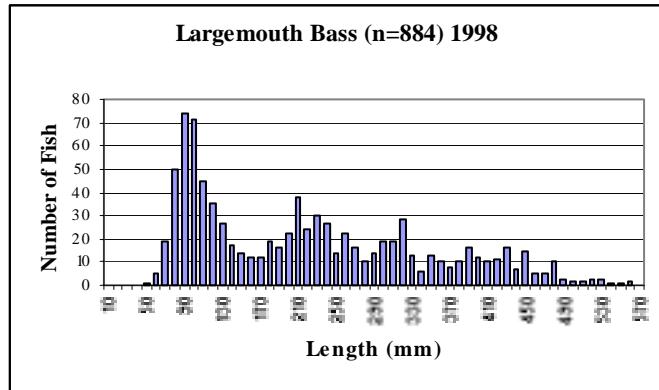
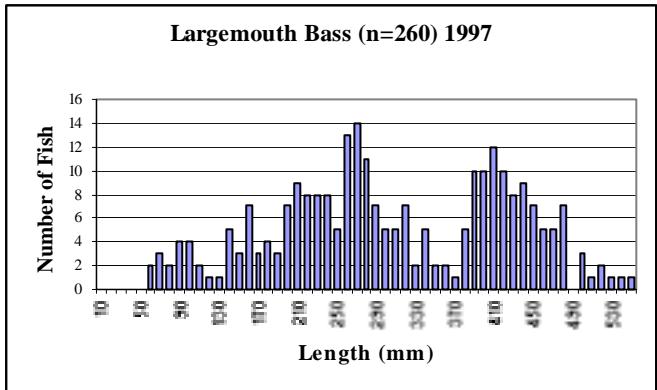
Appendix D.21 Regression equations of body length versus age for Kokanee Salmon, in 1997 and 1998.



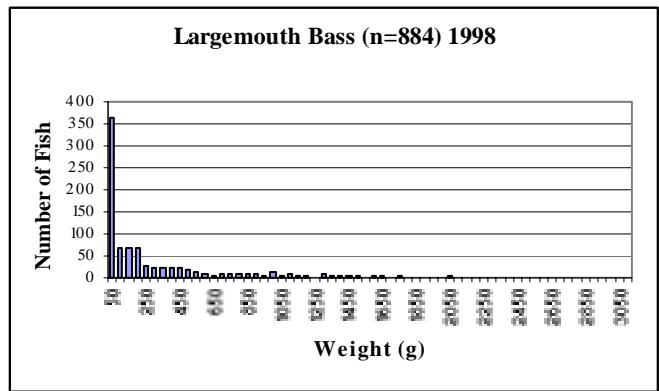
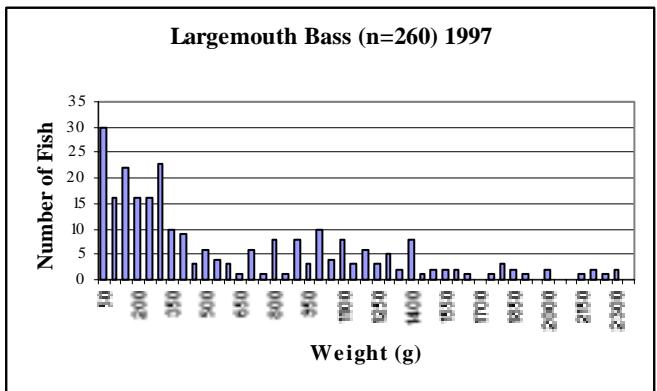
Appendix D.22 Regression equations of weight versus age for Kokanee Salmon, in 1997 and 1998.



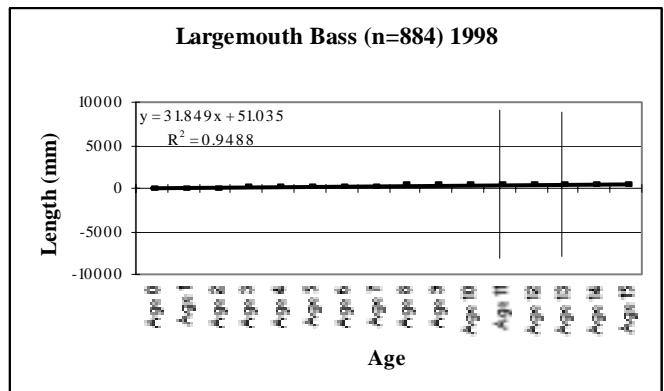
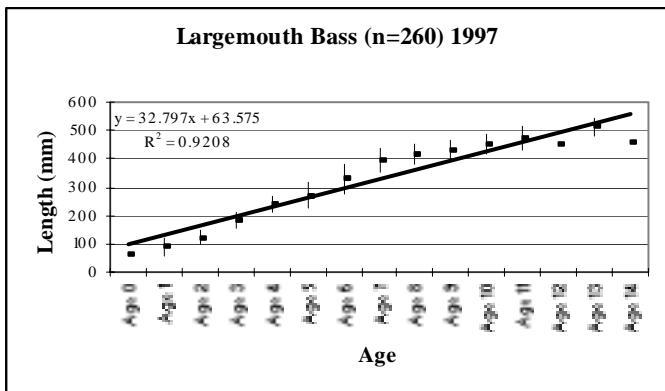
Appendix D.23 Age distribution of the number of Largemouth Bass sampled versus age in 1997 and 1998.



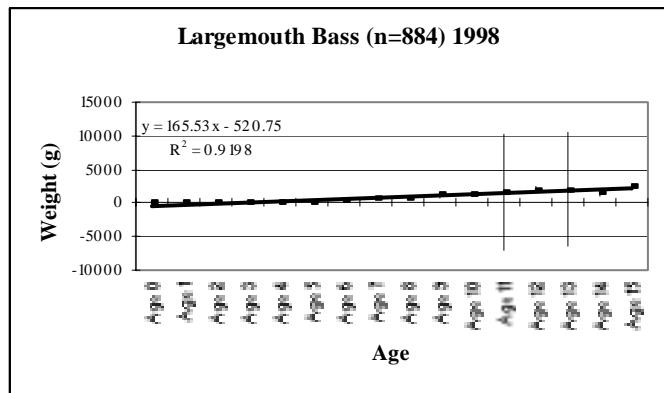
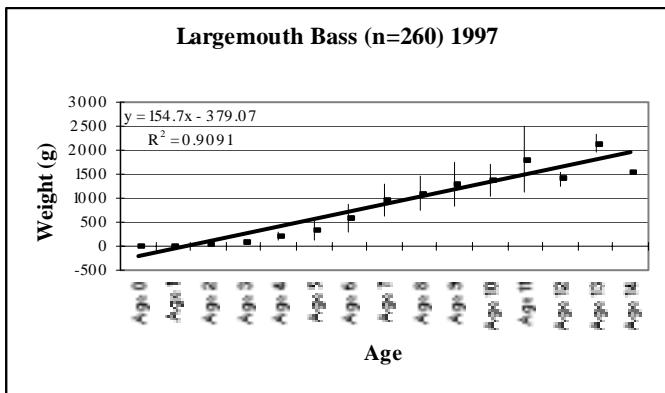
Appendix D.24 Frequency distribution of the number of Largemouth Bass sampled versus body length in 1997 and 1998.



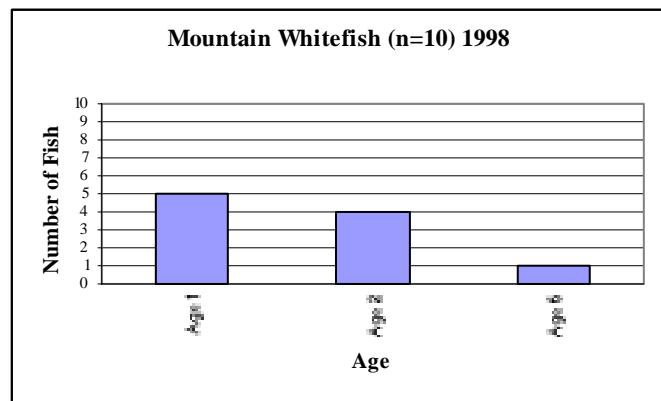
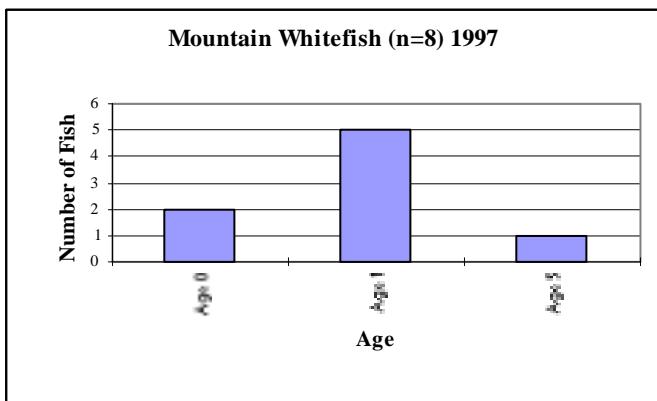
Appendix D.25 Frequency distribution of the number of Largemouth Bass sampled versus weight in 1997 and 1998.



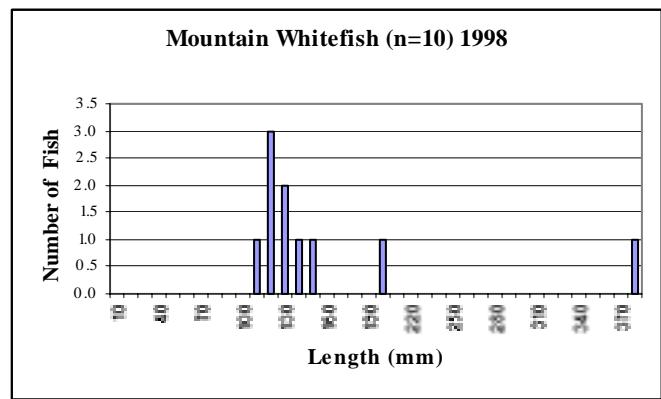
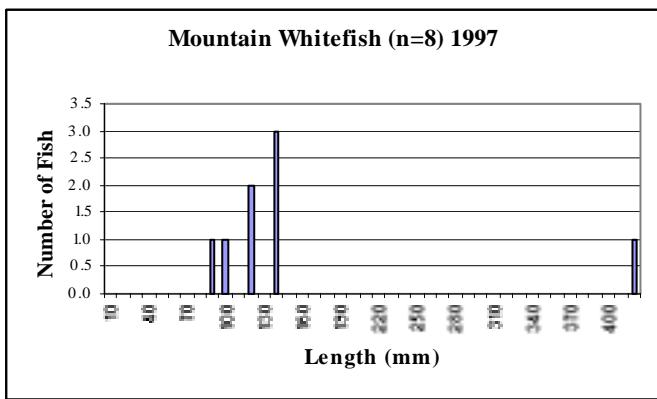
Appendix D.26 Regression equations of body length versus age for Largemouth Bass, in 1997 and 1998.



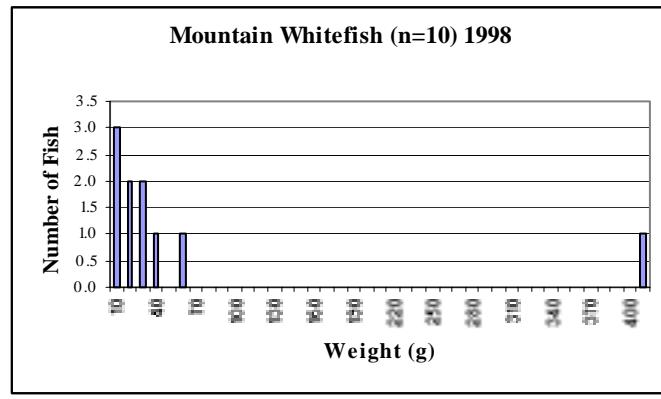
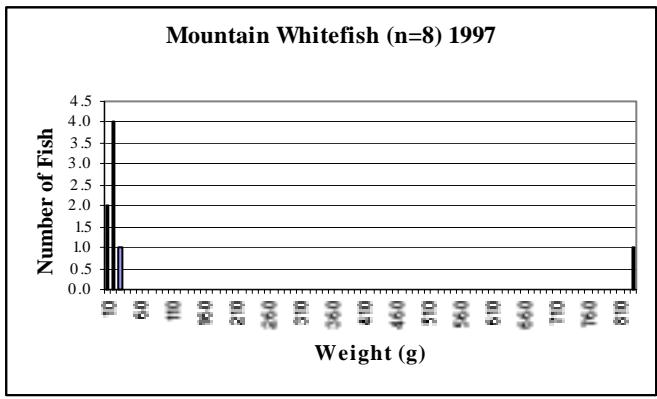
Appendix D.27 Regression equations of weight versus age for Largemouth Bass, in 1997 and 1998.



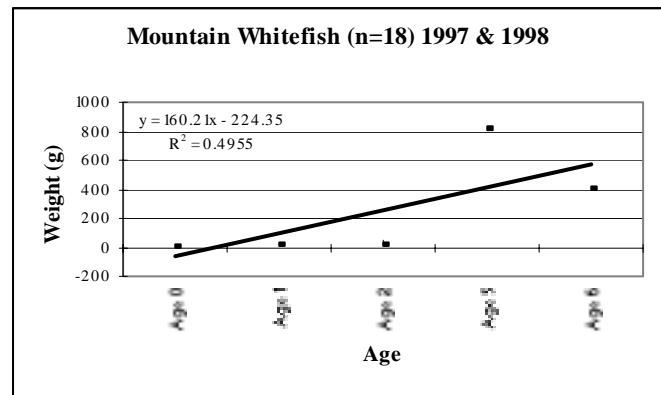
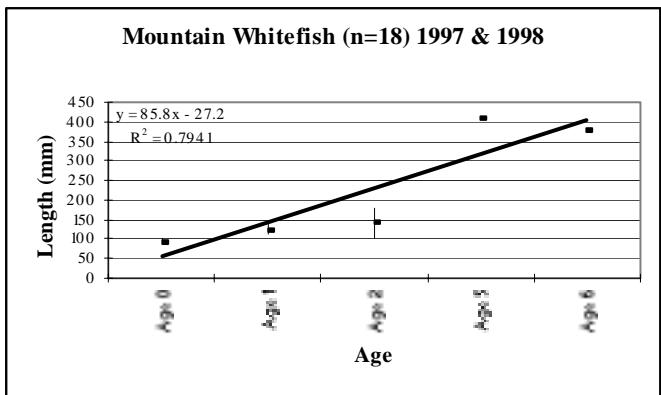
Appendix D.28 Age distribution of the number of Mountain Whitefish sampled versus age in 1997 and 1998.



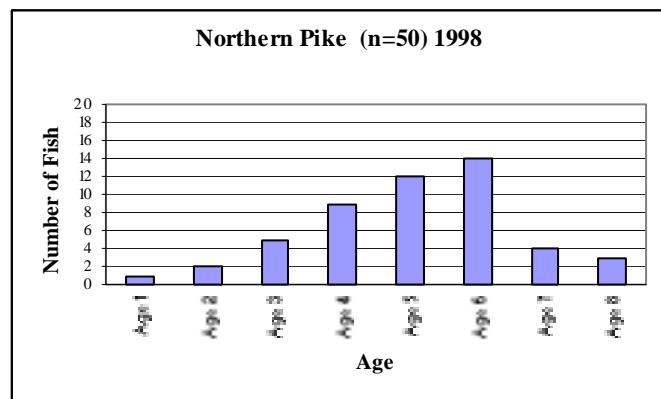
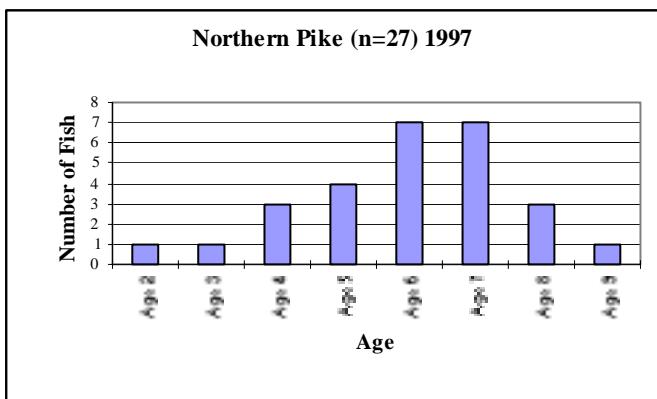
Appendix D.29 Frequency distribution of the number of Mountain Whitefish sampled versus body length in 1997 and 1998.



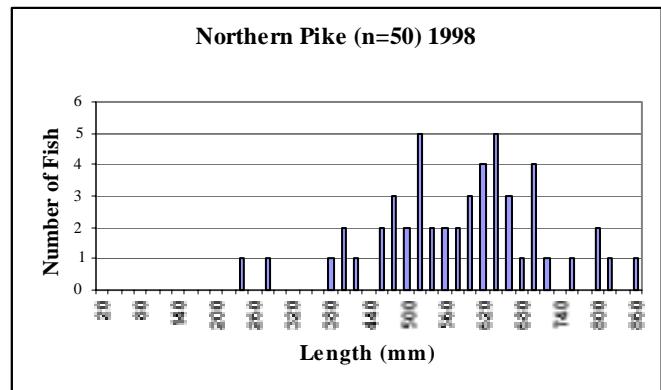
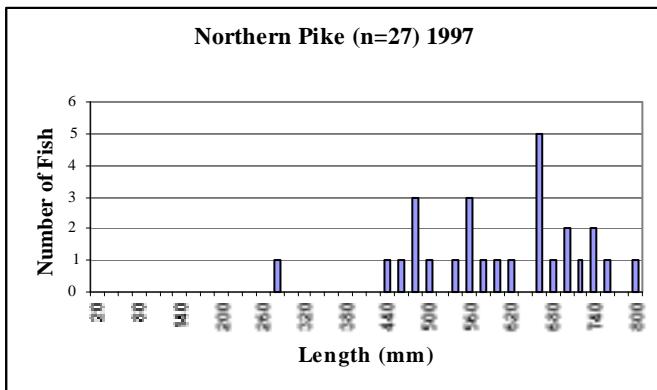
Appendix D.30 Frequency distribution of the number of Mountain Whitefish sampled versus weight in 1997 and 1998.



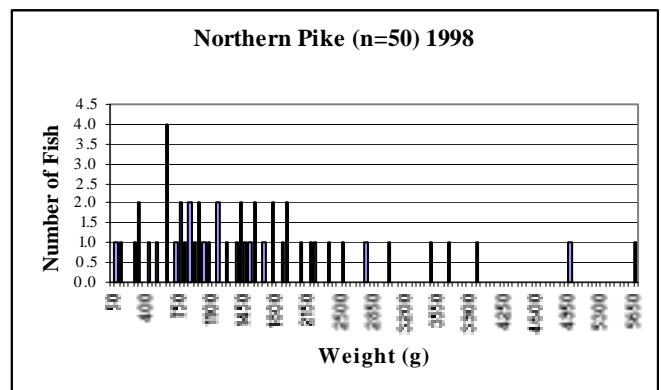
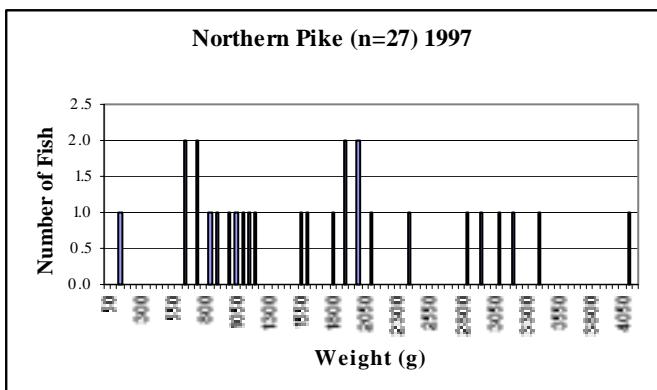
Appendix D.31 Regression equations of body length and weight versus age for Mountain Whitefish, combined 1997 and 1998 data.



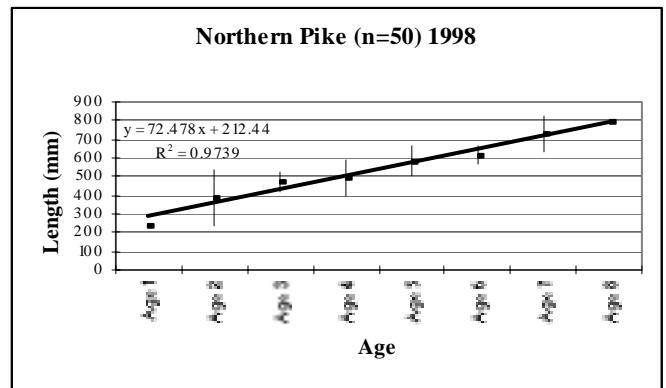
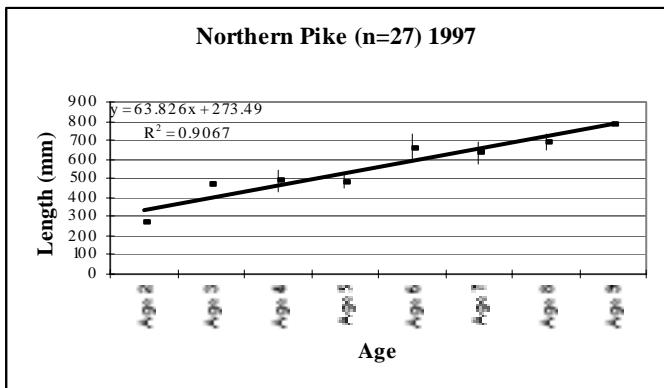
Appendix D.32 Age distribution of the number of Northern Pike sampled versus age in 1997 and 1998.



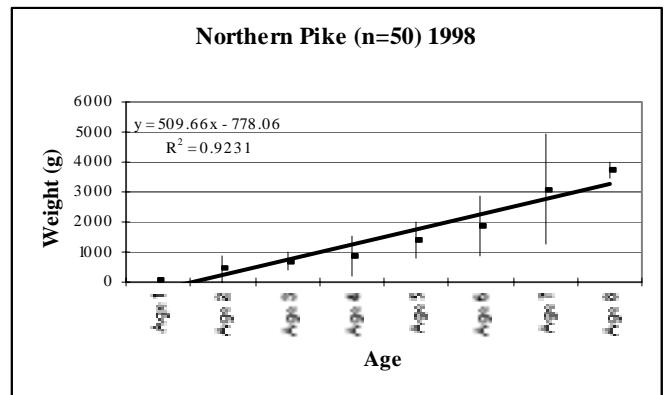
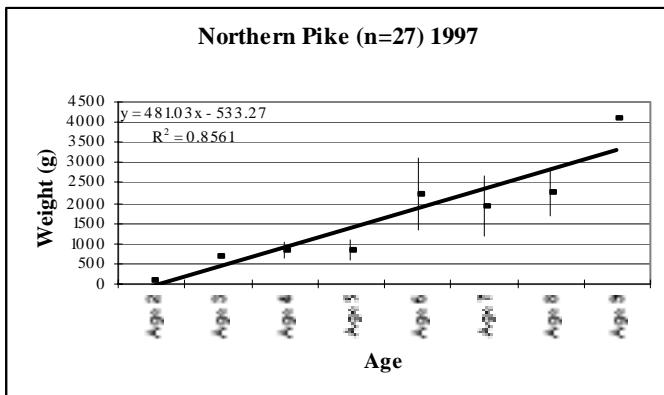
Appendix D.33 Frequency distribution of the number of Northern Pike sampled versus body length in 1997 and 1998.



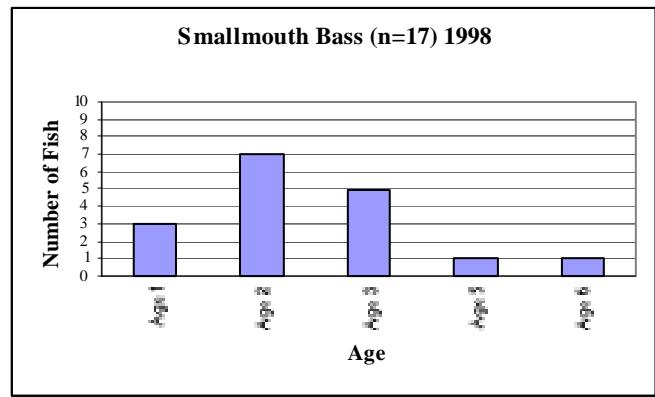
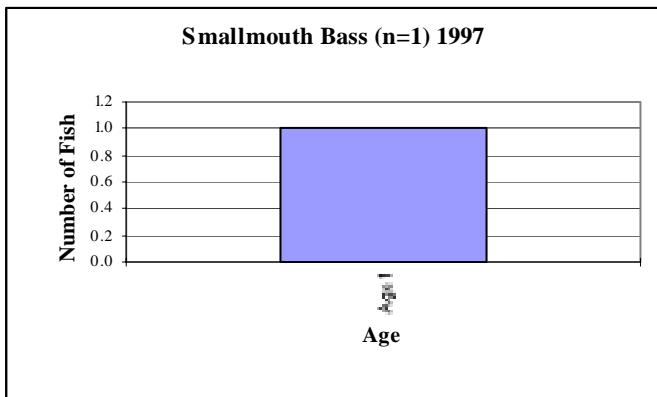
Appendix D.34 Frequency distribution of the number of Northern Pike sampled versus weight in 1997 and 1998.



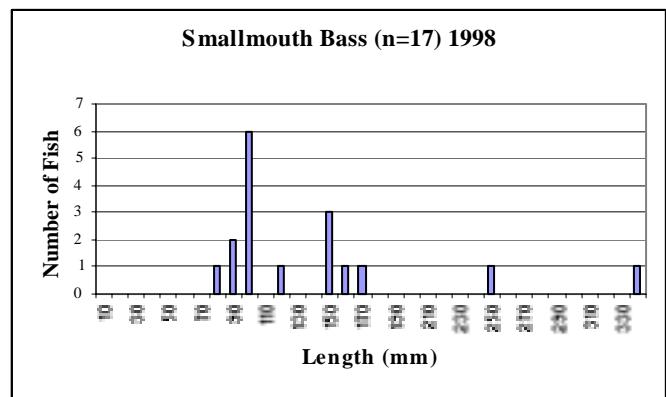
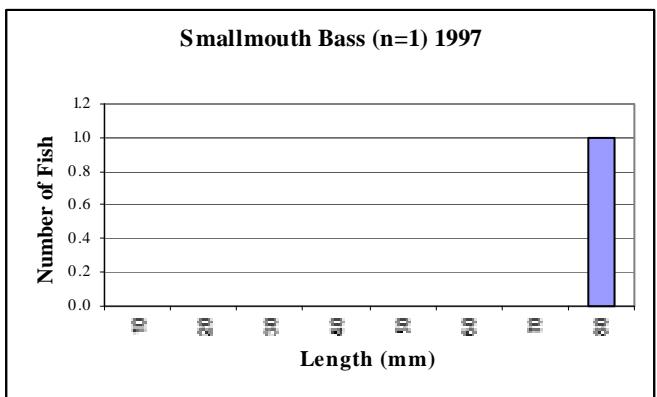
Appendix D.35 Regression equations of body length versus age for Northern Pike, in 1997 and 1998.



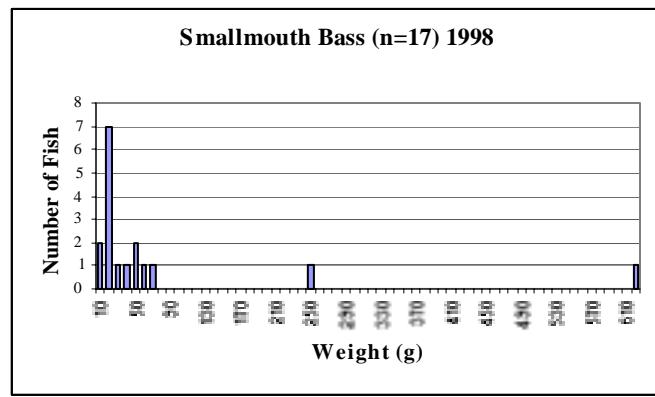
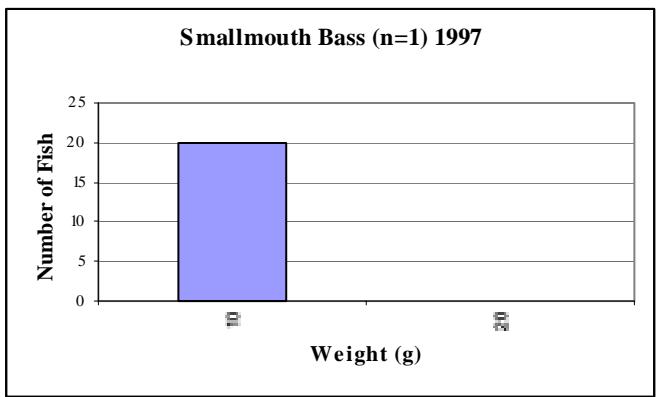
Appendix D.36 Regression equations of weight versus age for Northern Pike, in 1997 and 1998.



Appendix D.37 Age distribution of the number of Smallmouth Bass sampled versus age during 1997 and 1998.

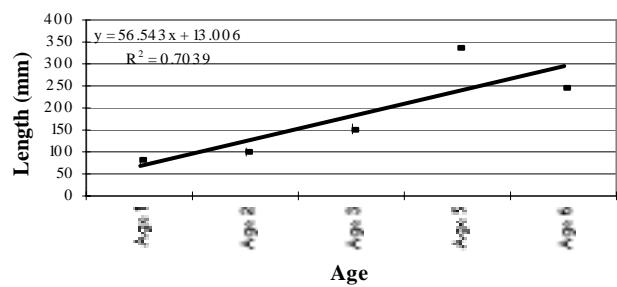


Appendix D.38 Frequency distribution of the number of Smallmouth Bass sampled versus body length during 1997 and 1998.

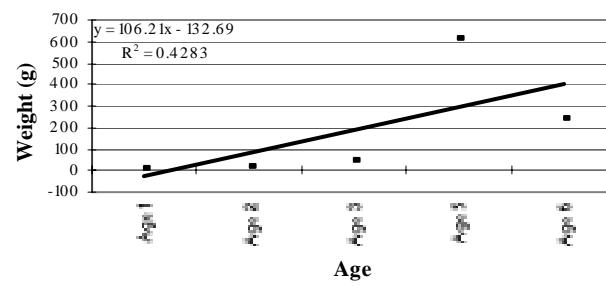


Appendix D.39 Frequency distribution of the number of Smallmouth Bass sampled versus weight during 1997 and 1998.

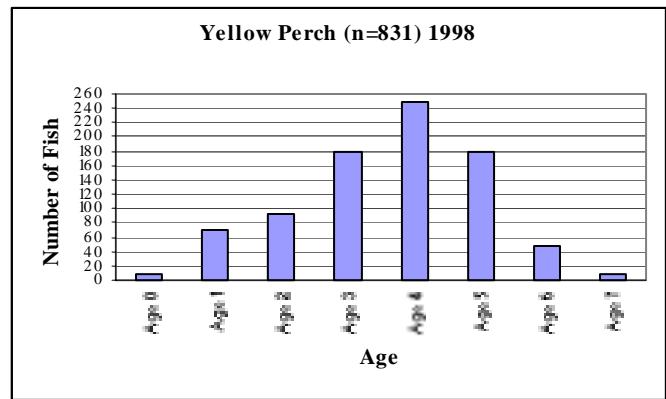
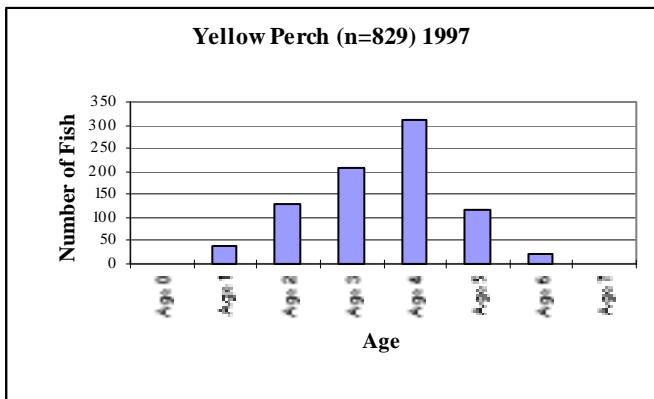
Smallmouth Bass (n=18) 1997 & 1998



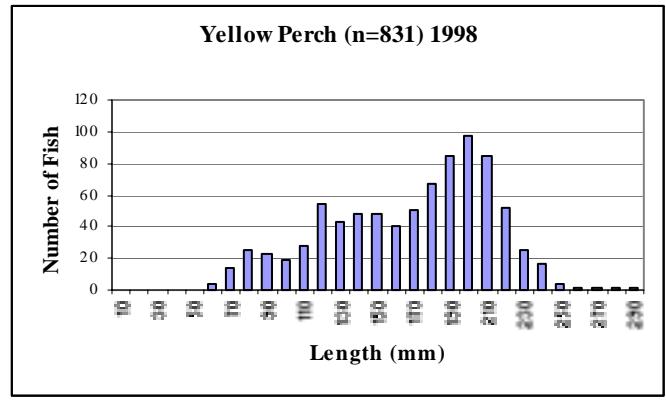
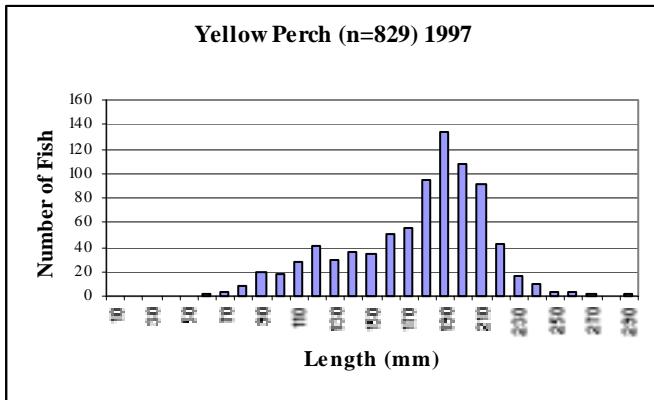
Smallmouth Bass (n=18) 1997 & 1998



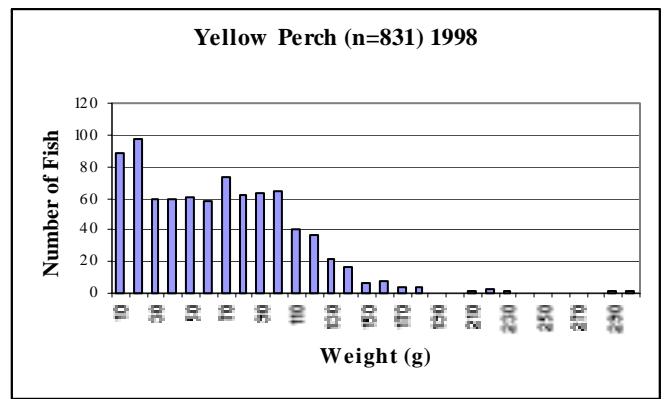
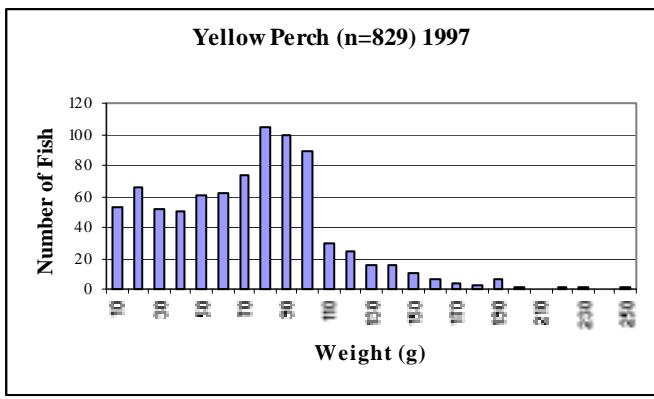
Appendix D.40 Regression equations of body length and weight versus age for Smallmouth Bass, combined 1997 and 1998 data.



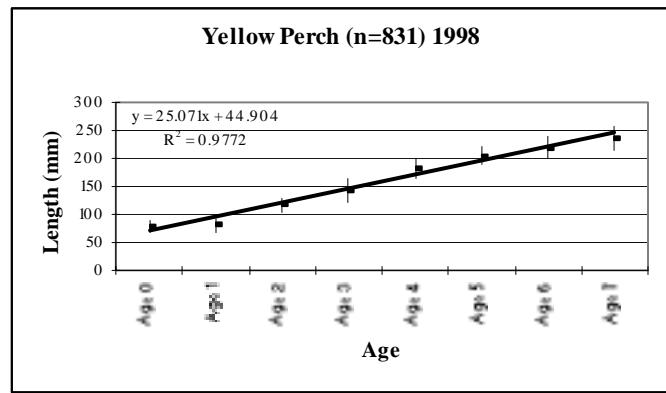
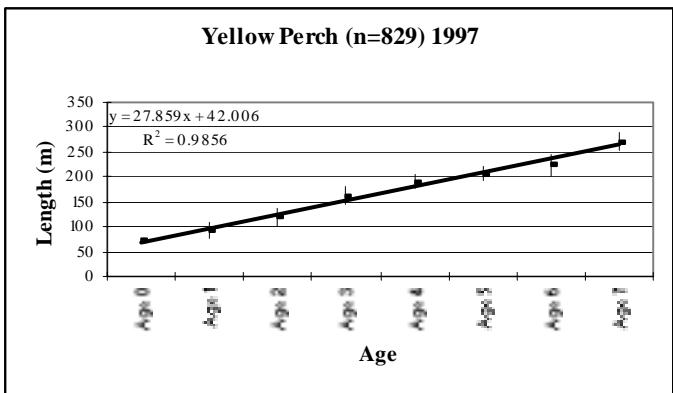
Appendix D.41 Age distribution of the number of Yellow Perch sampled versus age in 1997 and 1998.



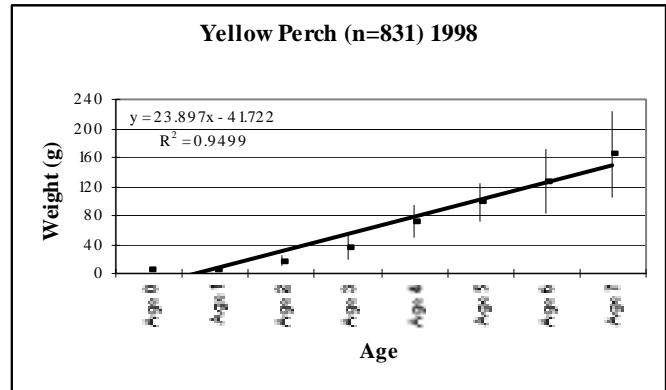
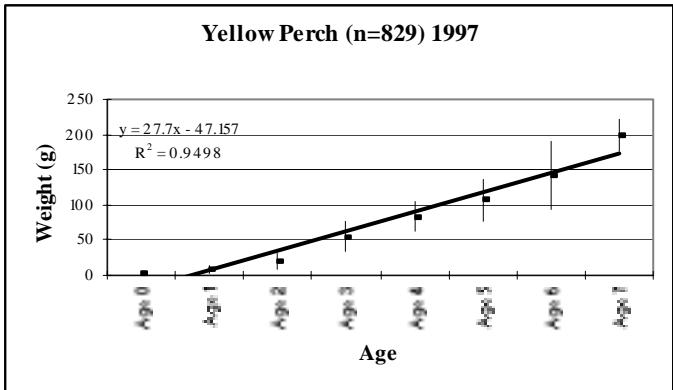
Appendix D.42 Frequency distribution of the number of Yellow Perch sampled versus body length in 1997 and 1998.



Appendix D.43 Frequency distribution of the number of Yellow Perch sampled versus weight in 1997 and 1998.



Appendix D.44 Regression equations of body length versus age for Yellow Perch, in 1997 and 1998.



Appendix D.45 Regression equations of weight versus age for Yellow Perch, in 1997 and 1998.

Appendix E

Statistics of mean length and weight, standard deviation and range
for all aged species sampled in Coeur d'Alene Lake, 1997 and 1998.

Appendix E.1 Mean length and weight, standard deviation and range for aged Black Crappie in 1997 and 1998.

| Age | Statistics | 1997 (n=247) | | 1998 (n=678) | |
|-------|--------------------|--------------|------------|--------------|------------|
| | | Length (mm) | Weight (g) | Length (mm) | Weight (g) |
| Age 0 | Mean | - | - | 62.60 | 3.00 |
| | Standard Deviation | - | - | 6.85 | 1.33 |
| | Range | - | - | 53-75 | 1-5 |
| Age 1 | Mean | 95.25 | 9.63 | 79.47 | 7.25 |
| | Standard Deviation | 9.64 | 3.03 | 10.46 | 2.65 |
| | Range | 77-107 | 6-17 | 56-102 | 4-13 |
| Age 2 | Mean | 106.60 | 19.46 | 102.35 | 13.75 |
| | Standard Deviation | 13.89 | 9.68 | 10.42 | 6.70 |
| | Range | 81-118 | 8-62 | 75-150 | 3-54 |
| Age 3 | Mean | 154.56 | 59.79 | 133.99 | 35.73 |
| | Standard Deviation | 34.85 | 41.39 | 14.63 | 12.42 |
| | Range | 34.85 | 41.39 | 97-183 | 10-70 |
| Age 4 | Mean | 192.61 | 110.16 | 156.36 | 61.41 |
| | Standard Deviation | 11.61 | 23.15 | 18.05 | 30.08 |
| | Range | 160-214 | 50-191 | 115-229 | 26-314 |
| Age 5 | Mean | 204.87 | 132.94 | 187.03 | 106.15 |
| | Standard Deviation | 14.25 | 31.62 | 28.33 | 43.43 |
| | Range | 14.25 | 31.62 | 148-240 | 50-207 |
| Age 6 | Mean | 216.33 | 152.67 | 221.15 | 171.38 |
| | Standard Deviation | 13.85 | 33.93 | 18.59 | 38.91 |
| | Range | 199-247 | 100-226 | 170-260 | 76-297 |
| Age 7 | Mean | 212.00 | 168.00 | 241.00 | 230.69 |
| | Standard Deviation | - | - | 33.02 | 141.99 |
| | Range | - | - | 200-342 | 118-690 |

- Only one fish was caught in this age class or zero fish were sampled.

Appendix E.2 Mean length and weight, standard deviation and range for aged Channel Catfish during 1998.

| Age | Statistics | 1998 (n=5) | |
|-------|--------------------|-------------|------------|
| | | Length (mm) | Weight (g) |
| Age 1 | Mean | 216 | 75 |
| | Standard Deviation | - | - |
| | Range | - | - |
| Age 4 | Mean | 465 | 1365 |
| | Standard Deviation | - | - |
| | Range | - | - |
| Age 5 | Mean | 574.00 | 2366.50 |
| | Standard Deviation | 79.20 | 702.16 |
| | Range | 518-630 | 1870-2863 |
| Age 7 | Mean | 570 | 2541 |
| | Standard Deviation | - | - |
| | Range | - | - |

- Only one fish was caught in this age class or zero fish were sampled.

Appendix E.3 Mean length and weight, standard deviation and range for aged Chinook Salmon in 1997 and 1998.

| Age | Statistics | 1997 (n=19) | | 1998 (n=33) | |
|-------|--------------------|-------------|------------|-------------|------------|
| | | Length (mm) | Weight (g) | Length (mm) | Weight (g) |
| Age 0 | Mean | - | - | 85 | 4.5 |
| | Standard Deviation | - | - | 14.14 | 0.71 |
| | Range | - | - | 75-95 | 4-5 |
| Age 1 | Mean | - | - | 100.00 | 5.25 |
| | Standard Deviation | - | - | 12.25 | 2.63 |
| | Range | - | - | 85-110 | 3-8 |
| Age 2 | Mean | 177.69 | 64.88 | 245.35 | 188.20 |
| | Standard Deviation | 19.30 | 36.25 | 68.48 | 216.32 |
| | Range | 138-210 | 27-185 | 143-443 | 30-972 |
| Age 3 | Mean | 413 | 830 | 374 | 353.2 |
| | Standard Deviation | - | - | 83.20 | 141.91 |
| | Range | - | - | 250-449 | 116-500 |
| Age 4 | Mean | - | - | 722 | 4000 |
| | Standard Deviation | - | - | - | - |
| | Range | - | - | - | - |
| Age 5 | Mean | 848.5 | 7483.5 | 700 | 4886 |
| | Standard Deviation | 9.19 | 962.37 | - | - |
| | Range | 842-855 | 6803-8164 | - | - |

- Only one fish was caught in this age class or zero fish were sampled.

Appendix E.4 Mean length and weight, standard deviation and range for aged Cutthroat Trout in 1997 and 1998.

| Age | Statistics | 1997 (n=45) | | 1998 (n=49) | |
|-------|--------------------|-------------|------------|-------------|------------|
| | | Length (mm) | Weight (g) | Length (mm) | Weight (g) |
| Age 1 | Mean | - | - | 120 | 10 |
| | Standard Deviation | - | - | - | - |
| | Range | - | - | - | - |
| Age 2 | Mean | 182.50 | 51.50 | 141.40 | 24.70 |
| | Standard Deviation | 0.71 | 19.09 | 13.53 | 8.67 |
| | Range | 182-183 | 38-65 | 120-160 | 10-36 |
| Age 3 | Mean | 254.75 | 176.88 | 189.08 | 62.00 |
| | Standard Deviation | 27.12 | 60.70 | 33.46 | 49.00 |
| | Range | 194-315 | 63-312 | 152-267 | 16-186 |
| Age 4 | Mean | 304.14 | 281.21 | 243.82 | 163.76 |
| | Standard Deviation | 25.80 | 76.46 | 37.28 | 83.32 |
| | Range | 260-344 | 154-374 | 185-290 | 59-300 |
| Age 5 | Mean | 327.00 | 360.75 | 326.75 | 347.50 |
| | Standard Deviation | 10.61 | 55.16 | 43.15 | 148.68 |
| | Range | 312-335 | 308-420 | 280-382 | 215-555 |
| Age 6 | Mean | 342 | 368 | 316.00 | 313.80 |
| | Standard Deviation | - | - | 41.70 | 118.56 |
| | Range | - | - | 265-367 | 184-455 |

- Only one fish was caught in this age class or zero fish were sampled.

Appendix E.5 Mean length and weight, standard deviation and range for aged Kokanee Salmon in 1997 and 1998.

| Age | Statistics | 1997 (n=62) | | 1998 (n=23) | |
|-------|--------------------|-------------|------------|-------------|------------|
| | | Length (mm) | Weight (g) | Length (mm) | Weight (g) |
| Age 1 | Mean | 120.83 | 11.00 | - | - |
| | Standard Deviation | 17.88 | 5.10 | - | - |
| | Range | 87-140 | 4-15 | - | - |
| Age 2 | Mean | 129.22 | 15.78 | 225 | 75 |
| | Standard Deviation | 6.12 | 2.68 | - | - |
| | Range | 120-135 | 14-19 | - | - |
| Age 3 | Mean | 235.11 | 110.67 | 303.25 | 272 |
| | Standard Deviation | 9.91 | 19.09 | 42.14 | 103.94 |
| | Range | 222-250 | 74-135 | 245-338 | 132-352 |
| Age 4 | Mean | 235.11 | 110.67 | 321.31 | 328.54 |
| | Standard Deviation | 9.91 | 19.09 | 11.44 | 37.63 |
| | Range | 222-250 | 74-135 | 300-343 | 257-390 |
| Age 5 | Mean | 301.50 | 287.72 | 338.60 | 288.60 |
| | Standard Deviation | 28.11 | 89.05 | 5.90 | 52.19 |
| | Range | 251-340 | 140-402 | 333-345 | 232-338 |

- Only one fish was caught in this age class or zero fish were sampled.

Appendix E.6 Mean length and weight, standard deviation and range for aged Largemouth Bass in 1997 and 1998.

| Age | Statistics | 1997 (n=260) | | 1998 (n=884) | |
|--------|--------------------|--------------|------------|--------------|------------|
| | | Length (mm) | Weight (g) | Length (mm) | Weight (g) |
| Age 0 | Mean | 64.33 | 4.67 | 66.00 | 3.50 |
| | Standard Deviation | 4.04 | 2.52 | 14.94 | 1.29 |
| | Range | 60-68 | 2-7 | 49-85 | 2-5 |
| Age 1 | Mean | 90.55 | 14.91 | 84.92 | 8.03 |
| | Standard Deviation | 31.55 | 25.82 | 14.46 | 3.35 |
| | Range | 58-175 | 1-92 | 54-196 | 1-18 |
| Age 2 | Mean | 122.18 | 29.55 | 107.98 | 16.74 |
| | Standard Deviation | 23.65 | 15.51 | 16.15 | 8.88 |
| | Range | 90-156 | 11-59 | 80-175 | 5-64 |
| Age 3 | Mean | 180.15 | 82.81 | 158.41 | 53.45 |
| | Standard Deviation | 28.16 | 43.66 | 29.19 | 31.06 |
| | Range | 134-270 | 34-250 | 100-240 | 12-156 |
| Age 4 | Mean | 240.80 | 209.95 | 212.17 | 137.23 |
| | Standard Deviation | 29.91 | 81.56 | 39.58 | 75.90 |
| | Range | 159-290 | 56-415 | 147-421 | 38-457 |
| Age 5 | Mean | 271.40 | 325.47 | 252.13 | 231.49 |
| | Standard Deviation | 47.97 | 202.41 | 33.34 | 104.71 |
| | Range | 162-404 | 120-1000 | 186-346 | 79-630 |
| Age 6 | Mean | 330.59 | 572.93 | 302.90 | 444.00 |
| | Standard Deviation | 53.87 | 281.38 | 42.32 | 220.24 |
| | Range | 249-410 | 222-1040 | 210-380 | 116-1255 |
| Age 7 | Mean | 392.69 | 966.72 | 338.02 | 598.81 |
| | Standard Deviation | 42.99 | 342.13 | 42.73 | 285.62 |
| | Range | 310-470 | 400-1820 | 250-460 | 241-1600 |
| Age 8 | Mean | 413.48 | 1091.71 | 372.10 | 796.87 |
| | Standard Deviation | 35.58 | 353.08 | 37.09 | 232.48 |
| | Range | 338-473 | 544-2000 | 290-445 | 342-1465 |
| Age 9 | Mean | 428.69 | 1291.00 | 422.26 | 1161.32 |
| | Standard Deviation | 35.33 | 456.60 | 31.18 | 346.08 |
| | Range | 361-480 | 700-2200 | 365-492 | 411-2016 |
| Age 10 | Mean | 449.40 | 1385.67 | 428.50 | 1281.63 |
| | Standard Deviation | 35.58 | 335.54 | 26.11 | 292.96 |
| | Range | 406-515 | 884-1850 | 380-494 | 705-1960 |
| Age 11 | Mean | 476.00 | 1812.50 | 452.93 | 1507.79 |
| | Standard Deviation | 42.09 | 676.71 | 8676.44 | 8676.44 |
| | Range | 428-536 | 1075-2600 | 396-560 | 452-2832 |
| Age 12 | Mean | 455.00 | 1400.00 | 489.80 | 1953.70 |
| | Standard Deviation | 7.07 | 141.42 | 27.35 | 477.91 |
| | Range | 450-460 | 1300-1500 | 460-530 | 1396-2800 |
| Age 13 | Mean | 512.00 | 2140.00 | 495.44 | 2031.44 |
| | Standard Deviation | 28.84 | 181.66 | 8445.62 | 8445.62 |
| | Range | 468-546 | 1900-2300 | 410-560 | 1183-3073 |
| Age 14 | Mean | 462 | 1550 | 460.00 | 1528.50 |
| | Standard Deviation | - | - | 28.28 | 535.28 |
| | Range | - | - | 440-480 | 1150-1907 |
| Age 15 | Mean | - | - | 504.50 | 2426.00 |
| | Standard Deviation | - | - | 21.93 | 380.59 |
| | Range | - | - | 484-532 | 1893-2744 |

- Only one fish was caught in this age class or zero fish were sampled.

Appendix E.7 Mean length and weight, standard deviation and range for aged Mountain Whitefish in 1997 and 1998.

| Age | Statistics | 1997 (n=8) | | 1998 (n=10) | |
|-------|--------------------|-------------|------------|-------------|------------|
| | | Length (mm) | Weight (g) | Length (mm) | Weight (g) |
| Age 0 | Mean | 94.00 | 9.50 | - | - |
| | Standard Deviation | 8.49 | 2.12 | - | - |
| | Range | 88-100 | 8-11 | - | - |
| Age 1 | Mean | 126.20 | 15.80 | 123.80 | 16.00 |
| | Standard Deviation | 11.90 | 5.40 | 14.41 | 11.07 |
| | Range | 112-138 | 7-21 | 104-141 | 4-32 |
| Age 2 | Mean | - | - | 141.00 | 25.00 |
| | Standard Deviation | - | - | 36.99 | 20.35 |
| | Range | - | - | 117-195 | 9-54 |
| Age 5 | Mean | 411 | 825 | - | - |
| | Standard Deviation | - | - | - | - |
| | Range | - | - | - | - |
| Age 6 | Mean | - | - | 380 | 406 |
| | Standard Deviation | - | - | - | - |
| | Range | - | - | - | - |

- Only one fish was caught in this age class or zero fish were sampled.

Appendix E.8 Mean length and weight, standard deviation and range for aged Northern Pike in 1997 and 1998.

| Age | Statistics | 1997 (n=27) | | 1998 (n=50) | |
|-------|--------------------|-------------|------------|-------------|------------|
| | | Length (mm) | Weight (g) | Length (mm) | Weight (g) |
| Age 1 | Mean | - | - | 240 | 74 |
| | Standard Deviation | - | - | - | - |
| | Range | - | - | - | - |
| Age 2 | Mean | 267.00 | 120.00 | 385.50 | 445.00 |
| | Standard Deviation | - | - | 149.20 | 431.34 |
| | Range | - | - | 280-491 | 140-750 |
| Age 3 | Mean | 470.00 | 710.00 | 472.60 | 679.00 |
| | Standard Deviation | - | - | 53.42 | 308.90 |
| | Range | - | - | 400-550 | 350-1191 |
| Age 4 | Mean | 491.67 | 833.33 | 492.44 | 866.89 |
| | Standard Deviation | 57.50 | 201.08 | 91.76 | 667.08 |
| | Range | 434-549 | 610-1000 | 380-690 | 271-2520 |
| Age 5 | Mean | 485.75 | 845.00 | 583.75 | 1387.58 |
| | Standard Deviation | 38.80 | 250.53 | 83.89 | 610.26 |
| | Range | 448-540 | 620-1200 | 415-705 | 431-2377 |
| Age 6 | Mean | 655.57 | 2226.43 | 615.36 | 1860.07 |
| | Standard Deviation | 74.47 | 881.83 | 49.02 | 1008.42 |
| | Range | 550-750 | 1120-3390 | 505-691 | 983-4960 |
| Age 7 | Mean | 636.29 | 1932.86 | 728.75 | 3092.50 |
| | Standard Deviation | 57.74 | 750.48 | 98.17 | 1845.63 |
| | Range | 545-716 | 1030-3200 | 620-851 | 1442-5690 |
| Age 8 | Mean | 689.33 | 2283.33 | 790.33 | 3718.33 |
| | Standard Deviation | 39.00 | 579.51 | 9.24 | 272.96 |
| | Range | 650-728 | 1900-2950 | 785-801 | 3455-4000 |
| Age 9 | Mean | 790 | 4100 | - | - |
| | Standard Deviation | - | - | - | - |
| | Range | - | - | - | - |

- Only one fish was caught in this age class or zero fish were sampled.

Appendix E.9 Mean length and weight, standard deviation and range for aged Rainbow Trout in 1997 and 1998.

| Age | Statistics | 1997 (n=1) | | 1998 (n=1) | |
|-------|--------------------|-------------|------------|-------------|------------|
| | | Length (mm) | Weight (g) | Length (mm) | Weight (g) |
| Age 3 | Mean | - | - | 430 | 630 |
| | Standard Deviation | - | - | - | - |
| | Range | - | - | - | - |
| Age 6 | Mean | 370 | 508 | - | - |
| | Standard Deviation | - | - | - | - |
| | Range | - | - | - | - |

- Only one fish was caught in this age class or zero fish were sampled.

Appendix E.10 Mean length and weight, standard deviation and range for aged Smallmouth Bass in 1997 and 1998.

| Age | Statistics | 1997 (n=1) | | 1998 (n=17) | |
|-------|--------------------|-------------|------------|-------------|------------|
| | | Length (mm) | Weight (g) | Length (mm) | Weight (g) |
| Age 1 | Mean | 75 | 6 | 83.00 | 10.67 |
| | Standard Deviation | - | - | 5.57 | 6.35 |
| | Range | - | - | 77-88 | 7-18 |
| Age 2 | Mean | - | - | 99.57 | 16.86 |
| | Standard Deviation | - | - | 9.29 | 5.61 |
| | Range | - | - | 92-120 | 12-28 |
| Age 3 | Mean | - | - | 151.60 | 48.40 |
| | Standard Deviation | - | - | 10.71 | 10.36 |
| | Range | - | - | 143-168 | 35-62 |
| Age 5 | Mean | - | - | 335 | 612 |
| | Standard Deviation | - | - | - | - |
| | Range | - | - | - | - |
| Age 6 | Mean | - | - | 246 | 243 |
| | Standard Deviation | - | - | - | - |
| | Range | - | - | - | - |

- Only one fish was caught in this age class or zero fish were sampled.

Appendix E.11 Mean length and weight, standard deviation and range for aged Yellow Perch in 1997 and 1998.

| Age | Statistics | 1997 (n=829) | | 1998 (n=831) | |
|-------|--------------------|--------------|------------|--------------|------------|
| | | Length (mm) | Weight (g) | Length (mm) | Weight (g) |
| Age 0 | Mean | 73 | 3 | 78.00 | 4.57 |
| | Standard Deviation | - | - | 10.86 | 1.99 |
| | Range | - | - | 61-90 | 2-7 |
| Age 1 | Mean | 91.74 | 9.29 | 80.49 | 6.11 |
| | Standard Deviation | 16.34 | 5.58 | 13.12 | 3.21 |
| | Range | 59-124 | 0-20 | 57-115 | 1-18 |
| Age 2 | Mean | 119.23 | 20.81 | 116.15 | 17.03 |
| | Standard Deviation | 18.66 | 11.41 | 13.37 | 6.78 |
| | Range | 80-159 | 4-55 | 85-154 | 4-38 |
| Age 3 | Mean | 162.62 | 54.86 | 144.19 | 36.25 |
| | Standard Deviation | 19.38 | 21.49 | 21.06 | 17.35 |
| | Range | 116-208 | 15-165 | 98-215 | 10-116 |
| Age 4 | Mean | 190.72 | 83.72 | 183.46 | 72.34 |
| | Standard Deviation | 14.05 | 20.94 | 17.82 | 22.78 |
| | Range | 125-230 | 24-180 | 126-234 | 18-175 |
| Age 5 | Mean | 205.95 | 106.73 | 203.72 | 98.07 |
| | Standard Deviation | 14.78 | 28.64 | 16.18 | 25.85 |
| | Range | 170-251 | 40-190 | 154-244 | 38-180 |
| Age 6 | Mean | 224.22 | 141.52 | 219.04 | 127.15 |
| | Standard Deviation | 22.00 | 47.65 | 18.95 | 44.57 |
| | Range | 186-267 | 72-242 | 190-280 | 63-284 |
| Age 7 | Mean | 271.50 | 200.00 | 236.75 | 165.00 |
| | Standard Deviation | 16.26 | 22.63 | 21.02 | 58.91 |
| | Range | 260-283 | 184-216 | 215-283 | 123-293 |

- Only one fish was caught in this age class or zero fish were sampled.

Appendix F

Analysis of spawning gravel beds in select tributaries of the Coeur d'Alene Reservation, 1998.

Spawning Gravel Survey, 1998 - Results and Analysis

Date Collected:

Location :

Initials:

Reach: Site Number:

Spawning Gravel Analysis

% Usable Spawning Area =

Est. % Survival to Emergence:

Redd Potential (#):

Production Index:

#fry/100m²

Bankfull Area (ft²):

Gravel Quantity (ft²):

Bankfull Width

| | |
|----|------|
| 1 | 11.0 |
| 2 | 10.0 |
| 3 | 10.0 |
| 4 | 12.0 |
| 5 | 11.0 |
| 6 | 10.0 |
| 7 | 7.0 |
| 8 | 8.0 |
| 9 | 8.0 |
| 10 | 6.0 |

Avg. Width (ft.) =

McNeil Core Sample

| Date Processed: | 10-Nov-98 | Total Dry Weight (g): | <u>3608</u> | %Total | %Cumm. |
|-------------------------|---------------|-----------------------|-------------|--------|--------|
| Particle | Diameter (mm) | Weight (grams) | | | |
| Vry Fine Sand | 0.125 | 3.5 | 0 | 0 | 0 |
| Fine Sand | 0.250 | 8.5 | 0 | 0 | 0 |
| Medium Sand | 0.500 | 40 | 1 | 1 | 1 |
| Coarse Sand | 0.850 | 27.5 | 1 | 2 | 2 |
| Vry Coarse Sand | 1.0 | 298.5 | 8 | 11 | 11 |
| Vry Fine Gravel | 2.0 | 839 | 23 | 34 | 34 |
| Fine Gravel | 4.75 | 408 | 11 | 45 | 45 |
| Fine Gravel | 6.3 | 336.5 | 9 | 55 | 55 |
| Medium Gravel | 8.0 | 795 | 22 | 77 | 77 |
| Coarse Gravel | 16.0 | 460 | 13 | 90 | 90 |
| Vry Coarse Gravel | 31.5 | 367 | 10 | 100 | 100 |
| Small Cobble | 63.5 | 0 | 0 | 100 | 100 |
| Total Weight (g) | | 3583.5 | 100 | | |

D_g =

% < 6.3mm

F_i =

% < 0.88mm

Wolman Pebble Count

| Size Range (mm) | Item Count | %Total | %Cumm. |
|-----------------|------------|--------|--------|
| 0-2 | 6 | 6 | 6 |
| 2-4 | 14 | 14 | 20 |
| 4-8 | 19 | 19 | 39 |
| 8-16 | 13 | 13 | 52 |
| 16-32 | 32 | 32 | 84 |
| 32-64 | 16 | 16 | 100 |
| 64-128 | 0 | 0 | 100 |
| 128-256 | 0 | 0 | 100 |
| 256-512 | 0 | 0 | 100 |
| 512-1024 | 0 | 0 | 100 |
| 1024-2048 | 0 | 0 | 100 |
| 2048-4096 | 0 | 0 | 100 |

Total

30 Count Results

| | | | | | |
|----|-----|----|----|----|----|
| 1 | 19 | 11 | 26 | 21 | 66 |
| 2 | 62 | 12 | 38 | 22 | 91 |
| 3 | 11 | 13 | 36 | 23 | 85 |
| 4 | 70 | 14 | 34 | 24 | 98 |
| 5 | 90 | 15 | 36 | 25 | 17 |
| 6 | 120 | 16 | 18 | 26 | 10 |
| 7 | 140 | 17 | 96 | 27 | 8 |
| 8 | 105 | 18 | 80 | 28 | 26 |
| 9 | 92 | 19 | 70 | 29 | 58 |
| 10 | 17 | 20 | 75 | 30 | 69 |

* Estimated % survival to emergence was calculated using the equation published by Weaver and Fraley, 1993.

** Redd potential was determined by dividing area of suitable spawning gravel by average redd size (Thurow and King, 1994)

*** Production Index is an estimate of fry production calculated by multiplying redd potential by the estimated % survival to emergence and the calculated egg deposition (E) for the average sized female (310mm), using a length-fecundity relation for westslope cutthroat trout ($E=82.63e^{0.007958L}$), where L is fork length in millimeters (Downs and Shepard). Total egg deposition is assumed to be distributed between 3 redds for every 2 spawning females (Scott and Crossman 1973).

**** Geometric mean diameter (D_g) was calculated by a method of moments using the formula of Lotspeich and Everest (1981):

$$D_g = D_a^{P_a} \times \dots \times D_i^{P_i}; \text{ where } D_g = \text{the meometric mean (mm); } D_i = \text{the mean diameter (mm) of material retained on sieve } i;$$

P_i = the proportion by weight of the entire sample made up of material retained on sieve i .

***** The fredle index (F_i) was calculated using the formula: $F_i = D_g/S_o$; where S_o = a sorting coefficient

Spawning Gravel Survey, 1998 - Results and Analysis

Date Collected:

Location :

Initials:

Reach: Site Number:

Spawning Gravel Analysis

% Usable Spawning Area =

Est. % Survival to Emergence:

Redd Potential (#): Production Index: #fry/100m²

Bankfull Area (ft²): Gravel Quantity (ft²):

| Bankfull Width | |
|--------------------|------|
| 1 | 8.0 |
| 2 | 10.0 |
| 3 | 12.0 |
| 4 | 7.0 |
| 5 | 5.0 |
| 6 | 7.0 |
| 7 | 10.0 |
| 8 | 6.0 |
| 9 | 8.0 |
| 10 | 5.0 |
| Avg. Width (ft.) = | |
| | 7.8 |

McNeil Core Sample

| Date Processed: | 09-Nov-98 | Total Dry Weight (g): | <u>3405.5</u> | |
|-------------------|---------------|-----------------------|---------------|--------|
| Particle | Diameter (mm) | Weight (grams) | %Total | %Cumm. |
| Vry Fine Sand | 0.125 | 7.5 | 0 | 0 |
| Fine Sand | 0.250 | 16 | 0 | 1 |
| Medium Sand | 0.500 | 35.5 | 1 | 2 |
| Coarse Sand | 0.850 | 15.5 | 0 | 2 |
| Vry Coarse Sand | 1.0 | 138.5 | 4 | 6 |
| Vry Fine Gravel | 2.0 | 266 | 8 | 14 |
| Fine Gravel | 4.75 | 115 | 3 | 18 |
| Fine Gravel | 6.3 | 141 | 4 | 22 |
| Medium Gravel | 8.0 | 630 | 19 | 40 |
| Coarse Gravel | 16.0 | 1283.5 | 38 | 78 |
| Vry Coarse Gravel | 31.5 | 733.5 | 22 | 100 |
| Small Cobble | 63.5 | 0 | 0 | 100 |
| Total Weight (g) | | 3382 | 100 | |

D_g = % < 6.3mm

F_i = % < 0.88mm

Wolman Pebble Count

| Size Range (mm) | Item Count | %Total | %Cumm. |
|-----------------|------------|------------|--------|
| 0-2 | 3 | 3 | 3 |
| 2-4 | 6 | 6 | 9 |
| 4-8 | 6 | 6 | 15 |
| 8-16 | 14 | 14 | 29 |
| 16-32 | 26 | 26 | 55 |
| 32-64 | 27 | 27 | 82 |
| 64-128 | 15 | 15 | 97 |
| 128-256 | 3 | 3 | 100 |
| 256-512 | 0 | 0 | 100 |
| 512-1024 | 0 | 0 | 100 |
| 1024-2048 | 0 | 0 | 100 |
| 2048-4096 | 0 | 0 | 100 |
| Total | | 100 | |

30 Count Results

| | | | | | |
|----|-----|----|----|----|-----|
| 1 | 66 | 11 | 98 | 21 | 78 |
| 2 | 15 | 12 | 91 | 22 | 85 |
| 3 | 78 | 13 | 28 | 23 | 110 |
| 4 | 21 | 14 | 7 | 24 | 65 |
| 5 | 34 | 15 | 5 | 25 | 40 |
| 6 | 36 | 16 | 10 | 26 | 16 |
| 7 | 49 | 17 | 24 | 27 | 25 |
| 8 | 76 | 18 | 29 | 28 | 16 |
| 9 | 107 | 19 | 47 | 29 | 31 |
| 10 | 124 | 20 | 56 | 30 | 28 |

* Estimated % survival to emergence was calculated using the equation published by Weaver and Fraley, 1993.

** Redd potential was determined by dividing area of suitable spawning gravel by average redd size (Thurow and King, 1994)

*** Production Index is an estimate of fry production calculated by multiplying redd potential by the estimated % survival to emergence and the calculated egg deposition (E) for the average sized female (310mm), using a length-fecundity relation for westslope cutthroat trout ($E=82.63e^{0.007958L}$), where L is fork length in millimeters (Downs and Shepard). Total egg deposition is assumed to be distributed between 3 redds for every 2 spawning females (Scott and Crossman 1973).

**** Geometric mean diameter (D_g) was calculated by a method of moments using the formula of Lotspeich and Everest (1981):

$D_g = D_a^{P_a} \times \dots \times D_i^{P_i}$; where D_g = the geometric mean (mm); D_i = the mean diameter (mm) of material retained on sieve i ;

P_i = the proportion by weight of the entire sample made up of material retained on sieve i .

***** The fredle index (F_i) was calculated using the formula: $F_i = D_g/S_o$; where S_o = a sorting coefficient

Spawning Gravel Survey, 1998 - Results and Analysis

Date Collected:

Location :

Initials:

Reach: Site Number:

Spawning Gravel Analysis

% Usable Spawning Area =

Est. % Survival to Emergence:

Redd Potential (#):

Production Index:

#fry/100m²

Bankfull Area (ft²):

Gravel Quantity (ft²):

Bankfull Width

| | |
|----|------|
| 1 | 14.0 |
| 2 | 10.0 |
| 3 | 8.0 |
| 4 | 6.0 |
| 5 | 25.0 |
| 6 | 30.0 |
| 7 | 15.0 |
| 8 | 9.0 |
| 9 | 10.0 |
| 10 | 8.0 |

Avg. Width (ft.) =

McNeil Core Sample

Date Processed: 10-Nov-98 Total Dry Weight (g):

Particle Diameter (mm)

Weight (grams)

%Total

%Cumm.

| | | | | |
|-------------------|-------|-------|-----|-----|
| Vry Fine Sand | 0.125 | 1 | 0 | 0 |
| Fine Sand | 0.250 | 1 | 0 | 0 |
| Medium Sand | 0.500 | 1 | 0 | 0 |
| Coarse Sand | 0.850 | 0.5 | 0 | 0 |
| Vry Coarse Sand | 1.0 | 3.5 | 0 | 0 |
| Vry Fine Gravel | 2.0 | 31 | 1 | 1 |
| Fine Gravel | 4.75 | 51.5 | 1 | 2 |
| Fine Gravel | 6.3 | 125.5 | 3 | 5 |
| Medium Gravel | 8.0 | 977 | 25 | 30 |
| Coarse Gravel | 16.0 | 1549 | 39 | 69 |
| Vry Coarse Gravel | 31.5 | 1242 | 31 | 100 |
| Small Cobble | 63.5 | 0 | 0 | 100 |
| Total Weight (g) | | 3983 | 100 | |

D_g =

% < 6.3mm

F_i =

% < 0.88mm

Wolman Pebble Count

Size Range (mm)

Item Count

%Total

%Cumm.

| | | | |
|-----------|---|---|---|
| 0-2 | 0 | 0 | 0 |
| 2-4 | 0 | 0 | 0 |
| 4-8 | 0 | 0 | 0 |
| 8-16 | 0 | 0 | 0 |
| 16-32 | 0 | 0 | 0 |
| 32-64 | 0 | 0 | 0 |
| 64-128 | 0 | 0 | 0 |
| 128-256 | 0 | 0 | 0 |
| 256-512 | 0 | 0 | 0 |
| 512-1024 | 0 | 0 | 0 |
| 1024-2048 | 0 | 0 | 0 |
| 2048-4096 | 0 | 0 | 0 |

Total

30 Count Results

| | |
|----|-----|
| 1 | 86 |
| 2 | 111 |
| 3 | 107 |
| 4 | 90 |
| 5 | 64 |
| 6 | 29 |
| 7 | 32 |
| 8 | 36 |
| 9 | 48 |
| 10 | 45 |

| | |
|----|----|
| 11 | 40 |
| 12 | 35 |
| 13 | 44 |
| 14 | 16 |
| 15 | 12 |
| 16 | 13 |
| 17 | 94 |
| 18 | 51 |
| 19 | 46 |
| 20 | 49 |

| | |
|----|----|
| 21 | 88 |
| 22 | 61 |
| 23 | 39 |
| 24 | 40 |
| 25 | 49 |
| 26 | 12 |
| 27 | 7 |
| 28 | 4 |
| 29 | 9 |
| 30 | 16 |

* Estimated % survival to emergence was calculated using the equation published by Weaver and Fraley, 1993.

** Redd potential was determined by dividing area of suitable spawning gravel by average redd size (Thurrow and King, 1994)

*** Production Index is an estimate of fry production calculated by multiplying redd potential by the estimated % survival to emergence and the calculated egg deposition (E) for the average sized female (310mm), using a length-fecundity relation for westslope cutthroat trout ($E=82.63e^{0.007958L}$), where L is fork length in millimeters (Downs and Shepard). Total egg deposition is assumed to be distributed between 3 redds for every 2 spawning females (Scott and Crossman 1973).

**** Geometric mean diameter (D_g) was calculated by a method of moments using the formula of Lotspeich and Everest (1981):

$D_g = D_a^{P_a} \times \dots \times D_i^{P_i}$; where D_a = the meometric mean (mm); D_i = the mean diameter (mm) of material retained on sieve i;

P_i = the proportion by weight of the entire sample made up of material retained on sieve i.

***** The fredle index (F_i) was calculated using the formula: F_i = D_g/S_o; where S_o = a sorting coefficient

Spawning Gravel Survey, 1998 - Results and Analysis

| | | | | |
|-----------------|----------|------------|-------|-----------------|
| Date Collected: | 08/28/98 | Location : | EVANS | |
| Initials: | RA GL | Reach: | 5 | Site Number: S2 |

Spawning Gravel Analysis

% Usable Spawning Area =

Est. % Survival to Emergence:

Redd Potential (#): Production Index: #fry/100m²

Bankfull Area (ft²): Gravel Quantity (ft²):

| | Bankfull Width |
|--------------------|----------------|
| 1 | 13.0 |
| 2 | 15.0 |
| 3 | 18.0 |
| 4 | 12.0 |
| 5 | 10.0 |
| 6 | 16.0 |
| 7 | 15.0 |
| 8 | 10.0 |
| 9 | 12.0 |
| 10 | 10.0 |
| Avg. Width (ft.) = | 13.1 |

McNeil Core Sample

| Date Processed: | 12-Nov-98 | Total Dry Weight (g): | 4899 | |
|-------------------------|---------------|-----------------------|------------|--------|
| Particle | Diameter (mm) | Weight (grams) | %Total | %Cumm. |
| Vry Fine Sand | 0.125 | 3 | 0 | 0 |
| Fine Sand | 0.250 | 3.5 | 0 | 0 |
| Medium Sand | 0.500 | 5.5 | 0 | 0 |
| Coarse Sand | 0.850 | 4 | 0 | 0 |
| Vry Coarse Sand | 1.0 | 60 | 1 | 1 |
| Vry Fine Gravel | 2.0 | 416 | 8 | 9 |
| Fine Gravel | 4.75 | 294 | 5 | 15 |
| Fine Gravel | 6.3 | 337.5 | 6 | 21 |
| Medium Gravel | 8.0 | 1501.5 | 28 | 49 |
| Coarse Gravel | 16.0 | 1334.5 | 25 | 73 |
| Vry Coarse Gravel | 31.5 | 1428.5 | 27 | 100 |
| Small Cobble | 63.5 | 0 | 0 | 100 |
| Total Weight (g) | | 5388 | 100 | |

$D_g = \boxed{11.4}$ % < 6.3mm

$F_i = \boxed{7.1}$ % < 0.88mm

Wolman Pebble Count

| Size Range (mm) | Item Count | %Total | %Cumm. |
|-----------------|------------|--------|--------|
| 0-2 | 7 | 7 | 7 |
| 2-4 | 11 | 11 | 18 |
| 4-8 | 12 | 12 | 30 |
| 8-16 | 18 | 18 | 48 |
| 16-32 | 17 | 17 | 64 |
| 32-64 | 10 | 10 | 74 |
| 64-128 | 15 | 15 | 89 |
| 128-256 | 11 | 11 | 100 |
| 256-512 | 0 | 0 | 100 |
| 512-1024 | 0 | 0 | 100 |
| 1024-2048 | 0 | 0 | 100 |
| 2048-4096 | 0 | 0 | 100 |
| Total | 101 | | |

30 Count Results

| | | | | | |
|----|-----|----|-----|----|----|
| 1 | 71 | 11 | 101 | 21 | 55 |
| 2 | 110 | 12 | 40 | 22 | 58 |
| 3 | 92 | 13 | 39 | 23 | 30 |
| 4 | 64 | 14 | 38 | 24 | 44 |
| 5 | 60 | 15 | 20 | 25 | 62 |
| 6 | 88 | 16 | 36 | 26 | 27 |
| 7 | 91 | 17 | 66 | 27 | 20 |
| 8 | 47 | 18 | 92 | 28 | 18 |
| 9 | 55 | 19 | 84 | 29 | 35 |
| 10 | 82 | 20 | 60 | 30 | 41 |

* Estimated % survival to emergence was calculated using the equation published by Weaver and Fraley, 1993.

** Redd potential was determined by dividing area of suitable spawning gravel by average redd size (Thurow and King, 1994)

*** Production Index is an estimate of fry production calculated by multiplying redd potential by the estimated % survival to emergence and the calculated egg deposition (E) for the average sized female (310mm), using a length-fecundity relation for westslope cutthroat trout ($E=62.63e^{0.007958L}$), where L is fork length in millimeters (Downs and Shepard). Total egg deposition is assumed to be distributed between 3 redds for every 2 spawning females (Scott and Crossman 1973).

**** Geometric mean diameter (D_g) was calculated by a method of moments using the formula of Lotspeich and Everest (1981):

$$D_g = D_{\bar{s}}^{P_g} \times \dots \times D_i^{P_i}; \text{ where } D_{\bar{s}} = \text{the meometric mean (mm); } D_i = \text{the mean diameter (mm) of material retained on sieve } i;$$

P_i = the proportion by weight of the entire sample made up of material retained on sieve i .

***** The fredle index (F_i) was calculated using the formula: $F_i = D_g/S_0$, where S_0 = a sorting coefficient

Spawning Gravel Survey, 1998 - Results and Analysis

Date Collected: Location :
 Initials: Reach: Site Number:

Spawning Gravel Analysis

% Usable Spawning Area =

Est. % Survival to Emergence:

Redd Potential (#): Production Index: #fry/100m²

Bankfull Area (ft²): Gravel Quantity (ft²):

Bankfull Width

| | |
|----|------|
| 1 | 14.0 |
| 2 | 17.0 |
| 3 | 17.0 |
| 4 | 12.0 |
| 5 | 8.0 |
| 6 | 8.0 |
| 7 | 10.0 |
| 8 | 14.0 |
| 9 | 15.0 |
| 10 | 12.0 |

Avg. Width (ft.) =

McNeil Core Sample

| Date Processed: | 11-Oct-98 | Total Dry Weight (g): | <u>4689</u> | %Cumm. |
|-------------------------|---------------|-----------------------|-------------|--------|
| Particle | Diameter (mm) | Weight (grams) | %Total | |
| Vry Fine Sand | 0.125 | 1 | 0 | 0 |
| Fine Sand | 0.250 | 2 | 0 | 0 |
| Medium Sand | 0.500 | 5.5 | 0 | 0 |
| Coarse Sand | 0.850 | 3 | 0 | 0 |
| Vry Coarse Sand | 1.0 | 43.5 | 1 | 1 |
| Vry Fine Gravel | 2.0 | 245.5 | 5 | 6 |
| Fine Gravel | 4.75 | 152.5 | 3 | 9 |
| Fine Gravel | 6.3 | 444.5 | 9 | 18 |
| Medium Gravel | 8.0 | 910.5 | 18 | 37 |
| Coarse Gravel | 16.0 | 1496 | 30 | 67 |
| Vry Coarse Gravel | 31.5 | 1620 | 33 | 100 |
| Small Cobble | 63.5 | 0 | 0 | 100 |
| Total Weight (g) | | 4924 | 100 | |

D_g = % < 6.3mm

F_i = % < 0.88mm

Wolman Pebble Count

| Size Range (mm) | Item Count | %Total | %Cumm. |
|-----------------|------------|--------|--------|
| 0-2 | 12 | 12 | 12 |
| 2-4 | 10 | 10 | 22 |
| 4-8 | 10 | 10 | 32 |
| 8-16 | 12 | 12 | 44 |
| 16-32 | 14 | 14 | 58 |
| 32-64 | 16 | 16 | 74 |
| 64-128 | 16 | 16 | 90 |
| 128-256 | 10 | 10 | 100 |
| 256-512 | 0 | 0 | 100 |
| 512-1024 | 0 | 0 | 100 |
| 1024-2048 | 0 | 0 | 100 |
| 2048-4096 | 0 | 0 | 100 |

Total

30 Count Results

| | | | | | |
|----|-----|----|----|----|----|
| 1 | 86 | 11 | 64 | 21 | 61 |
| 2 | 151 | 12 | 79 | 22 | 67 |
| 3 | 73 | 13 | 93 | 23 | 83 |
| 4 | 62 | 14 | 57 | 24 | 88 |
| 5 | 77 | 15 | 63 | 25 | 54 |
| 6 | 101 | 16 | 99 | 26 | 61 |
| 7 | 83 | 17 | 49 | 27 | 75 |
| 8 | 61 | 18 | 62 | 28 | 80 |
| 9 | 95 | 19 | 53 | 29 | 59 |
| 10 | 90 | 20 | 78 | 30 | 70 |

* Estimated % survival to emergence was calculated using the equation published by Weaver and Fraley, 1993.

** Redd potential was determined by dividing area of suitable spawning gravel by average redd size (Thurow and King, 1994)

*** Production Index is an estimate of fry production calculated by multiplying redd potential by the estimated % survival to emergence and the calculated egg deposition (E) for the average sized female (310mm), using a length-fecundity relation for westslope cutthroat trout ($E=82.63e^{0.007958L}$), where L is fork length in millimeters (Downs and Shepard). Total egg deposition is assumed to be distributed between 3 redds for every 2 spawning females (Scott and Crossman 1973).

**** Geometric mean diameter (D_g) was calculated by a method of moments using the formula of Lotspeich and Everest (1981):

$D_g = D_g^{P_1} \times \dots \times D_g^{P_n}$; where D_g = the meometric mean (mm); D_i = the mean diameter (mm) of material retained on sieve i ;

P_i = the proportion by weight of the entire sample made up of material retained on sieve i .

***** The fredle index (F_i) was calculated using the formula: $F_i = D_g/S_o$; where S_o = a sorting coefficient

Spawning Gravel Survey, 1998 - Results and Analysis

Date Collected:
 Initials:

Location :
 Reach: Site Number:

| Spawning Gravel Analysis | | | | | |
|---|--|---|-------------------------------------|-----------------------------------|--|
| % Usable Spawning Area = | | <input type="text" value="2.1"/> | | | |
| Est. % Survival to Emergence: | | <input type="text" value="63.9"/> | | | |
| Redd Potential (#): | | <input type="text" value="26"/> | Production Index: | <input type="text" value="2256"/> | #fry/100m ² <input type="text" value="1252"/> |
| Bankfull Area (ft ²): | | <input type="text" value="1940.0"/> | Gravel Quantity (ft ²): | <input type="text" value="41.6"/> | |
| Bankfull Width | | | | | |
| 1 | 14.0 | | | | |
| 2 | 10.0 | | | | |
| 3 | 12.0 | | | | |
| 4 | 12.0 | | | | |
| 5 | 9.0 | | | | |
| 6 | 8.0 | | | | |
| 7 | 10.0 | | | | |
| 8 | 7.0 | | | | |
| 9 | 8.0 | | | | |
| 10 | 7.0 | | | | |
| Avg. Width (ft.) = <input type="text" value="9.7"/> | | | | | |
| McNeil Core Sample | | | | | |
| Date Processed: | <input type="text" value="09-Nov-98"/> | Total Dry Weight (g): | <input type="text" value="3851"/> | | |
| Particle | Diameter (mm) | Weight (grams) | %Total | %Cumm. | |
| Vry Fine Sand | 0.125 | 0.5 | 0 | 0 | |
| Fine Sand | 0.250 | 1 | 0 | 0 | |
| Medium Sand | 0.500 | 2 | 0 | 0 | |
| Coarse Sand | 0.850 | 0.5 | 0 | 0 | |
| Vry Coarse Sand | 1.0 | 10.5 | 0 | 0 | |
| Vry Fine Gravel | 2.0 | 64.5 | 2 | 2 | |
| Fine Gravel | 4.75 | 50.5 | 1 | 3 | |
| Fine Gravel | 6.3 | 61.5 | 2 | 5 | |
| Medium Gravel | 8.0 | 480 | 12 | 17 | |
| Coarse Gravel | 16.0 | 536 | 13 | 30 | |
| Vry Coarse Gravel | 31.5 | 1591 | 39 | 69 | |
| Small Cobble | 63.5 | 1230 | 31 | 100 | |
| Total Weight (g) | | <input type="text" value="4028"/> | <input type="text" value="100"/> | | |
| $D_g =$ <input type="text" value="27.2"/> | | $\% < 6.3\text{mm}$ <input type="text" value="3"/> | | | |
| $F_i =$ <input type="text" value="13.7"/> | | $\% < 0.88\text{mm}$ <input type="text" value="0"/> | | | |
| Wolman Pebble Count | | | | | |
| Size Range (mm) | Item Count | %Total | %Cumm. | | |
| 0-2 | <input type="text" value="7"/> | <input type="text" value="7"/> | 7 | | |
| 2-4 | <input type="text" value="15"/> | <input type="text" value="15"/> | 22 | | |
| 4-8 | <input type="text" value="22"/> | <input type="text" value="22"/> | 44 | | |
| 8-16 | <input type="text" value="20"/> | <input type="text" value="20"/> | 64 | | |
| 16-32 | <input type="text" value="25"/> | <input type="text" value="25"/> | 89 | | |
| 32-64 | <input type="text" value="11"/> | <input type="text" value="11"/> | 100 | | |
| 64-128 | <input type="text" value="0"/> | <input type="text" value="0"/> | 100 | | |
| 128-256 | <input type="text" value="0"/> | <input type="text" value="0"/> | 100 | | |
| 256-512 | <input type="text" value="0"/> | <input type="text" value="0"/> | 100 | | |
| 512-1024 | <input type="text" value="0"/> | <input type="text" value="0"/> | 100 | | |
| 1024-2048 | <input type="text" value="0"/> | <input type="text" value="0"/> | 100 | | |
| 2048-4096 | <input type="text" value="0"/> | <input type="text" value="0"/> | 100 | | |
| Total <input type="text" value="100"/> | | | | | |
| 30 Count Results | | | | | |
| 1 | <input type="text" value="24"/> | 11 | <input type="text" value="64"/> | 21 | <input type="text" value="7"/> |
| 2 | <input type="text" value="32"/> | 12 | <input type="text" value="69"/> | 22 | <input type="text" value="101"/> |
| 3 | <input type="text" value="25"/> | 13 | <input type="text" value="52"/> | 23 | <input type="text" value="120"/> |
| 4 | <input type="text" value="21"/> | 14 | <input type="text" value="25"/> | 24 | <input type="text" value="10"/> |
| 5 | <input type="text" value="8"/> | 15 | <input type="text" value="18"/> | 25 | <input type="text" value="5"/> |
| 6 | <input type="text" value="12"/> | 16 | <input type="text" value="74"/> | 26 | <input type="text" value="3"/> |
| 7 | <input type="text" value="76"/> | 17 | <input type="text" value="65"/> | 27 | <input type="text" value="24"/> |
| 8 | <input type="text" value="84"/> | 18 | <input type="text" value="21"/> | 28 | <input type="text" value="17"/> |
| 9 | <input type="text" value="101"/> | 19 | <input type="text" value="18"/> | 29 | <input type="text" value="10"/> |
| 10 | <input type="text" value="95"/> | 20 | <input type="text" value="10"/> | 30 | <input type="text" value="12"/> |

* Estimated % survival to emergence was calculated using the equation published by Weaver and Fraley, 1993.

** Redd potential was determined by dividing area of suitable spawning gravel by average redd size (Thurow and King, 1994)

*** Production Index is an estimate of fry production calculated by multiplying redd potential by the estimated % survival to emergence and

the calculated egg deposition (E) for the average sized female (310mm), using a length-fecundity relation for westslope cutthroat trout
 $(E=82.63e^{0.007958L})$, where L is fork length in millimeters (Downs and Shepard). Total egg deposition is assumed to be distributed between

3 redds for every 2 spawning females (Scott and Crossman 1973).

**** Geometric mean diameter (D_g) was calculated by a method of moments using the formula of Lotspeich and Everest (1981):

$D_g = D_a^{P_a} \times \dots \times D_i^{P_i}$, where D_g = the geometric mean (mm); D_i = the mean diameter (mm) of material retained on sieve i ;

P_i = the proportion by weight of the entire sample made up of material retained on sieve i .

***** The Fredle index (F_i) was calculated using the formula: $F_i = D_g/S_o$; where S_o = a sorting coefficient

Spawning Gravel Survey, 1998 - Results and Analysis

Date Collected: Location :
 Initials: Reach: Site Number:

Spawning Gravel Analysis

% Usable Spawning Area =

Est. % Survival to Emergence:

Redd Potential (#): Production Index: #fry/100m²

Bankfull Area (ft²): Gravel Quantity (ft²):

Bankfull Width

| | |
|----|------|
| 1 | 10.0 |
| 2 | 10.0 |
| 3 | 12.0 |
| 4 | 9.0 |
| 5 | 8.0 |
| 6 | 10.0 |
| 7 | 7.0 |
| 8 | 7.0 |
| 9 | 7.0 |
| 10 | 6.0 |

Avg. Width (ft.) =

McNeil Core Sample

| Date Processed: | Total Dry Weight (g): | | | | |
|-------------------|-----------------------|---------------|----------------|--------|--------|
| | Particle | Diameter (mm) | Weight (grams) | %Total | %Cumm. |
| Vry Fine Sand | | 0.125 | 0.5 | 0 | 0 |
| Fine Sand | | 0.250 | 2 | 0 | 0 |
| Medium Sand | | 0.500 | 5 | 0 | 0 |
| Coarse Sand | | 0.850 | 3.5 | 0 | 0 |
| Vry Coarse Sand | | 1.0 | 39 | 1 | 1 |
| Vry Fine Gravel | | 2.0 | 177 | 5 | 6 |
| Fine Gravel | | 4.75 | 89.5 | 2 | 8 |
| Fine Gravel | | 6.3 | 104 | 3 | 11 |
| Medium Gravel | | 8.0 | 469.5 | 12 | 23 |
| Coarse Gravel | | 16.0 | 812.5 | 21 | 45 |
| Vry Coarse Gravel | | 31.5 | 1444 | 38 | 83 |
| Small Cobble | | 63.5 | 644 | 17 | 100 |
| Total Weight (g) | | | 3790.5 | 100 | |

D_g = % < 6.3mm

F_i = % < 0.88mm

Wolman Pebble Count

| Size Range (mm) | Item Count | %Total | %Cumm. |
|-----------------|------------|--------|--------|
| 0-2 | 8 | 8 | 8 |
| 2-4 | 10 | 10 | 18 |
| 4-8 | 18 | 18 | 36 |
| 8-16 | 20 | 20 | 56 |
| 16-32 | 26 | 26 | 82 |
| 32-64 | 14 | 14 | 96 |
| 64-128 | 4 | 4 | 100 |
| 128-256 | 0 | 0 | 100 |
| 256-512 | 0 | 0 | 100 |
| 512-1024 | 0 | 0 | 100 |
| 1024-2048 | 0 | 0 | 100 |
| 2048-4096 | 0 | 0 | 100 |

Total

30 Count Results

| | | | | | |
|----|-----|----|-----|----|----|
| 1 | 31 | 11 | 102 | 21 | 62 |
| 2 | 26 | 12 | 120 | 22 | 60 |
| 3 | 104 | 13 | 98 | 23 | 96 |
| 4 | 10 | 14 | 96 | 24 | 8 |
| 5 | 28 | 15 | 18 | 25 | 4 |
| 6 | 36 | 16 | 20 | 26 | 16 |
| 7 | 34 | 17 | 26 | 27 | 24 |
| 8 | 67 | 18 | 34 | 28 | 26 |
| 9 | 70 | 19 | 73 | 29 | 68 |
| 10 | 66 | 20 | 80 | 30 | 3 |

* Estimated % survival to emergence was calculated using the equation published by Weaver and Fraley, 1993.

** Redd potential was determined by dividing area of suitable spawning gravel by average redd size (Thurow and King, 1994)

*** Production Index is an estimate of fry production calculated by multiplying redd potential by the estimated % survival to emergence and the calculated egg deposition (E) for the average sized female (310mm), using a length-fecundity relation for westslope cutthroat trout ($E=82.63e^{0.007958L}$), where L is fork length in millimeters (Downs and Shepard). Total egg deposition is assumed to be distributed between 3 redds for every 2 spawning females (Scott and Crossman 1973).

**** Geometric mean diameter (D_g) was calculated by a method of moments using the formula of Lotspeich and Everest (1981):

$D_g = D_a^{P_a} \times \dots \times D_i^{P_i}$; where D_g = the geometric mean (mm); D_i = the mean diameter (mm) of material retained on sieve i ;

P_i = the proportion by weight of the entire sample made up of material retained on sieve i .

***** The fredele index (F_i) was calculated using the formula: $F_i = D_g/S_o$; where S_o = a sorting coefficient

Spawning Gravel Survey, 1998 - Results and Analysis

Date Collected: Initials:

Location : Reach: Site Number:

Spawning Gravel Analysis

% Usable Spawning Area =

Est. % Survival to Emergence:

Redd Potential (#): Production Index: #fry/100m²

Bankfull Area (ft²): Gravel Quantity (ft²):

| | Bankfull Width |
|--------------------|----------------|
| 1 | 6.0 |
| 2 | 8.0 |
| 3 | 6.0 |
| 4 | 10.0 |
| 5 | 9.0 |
| 6 | 5.0 |
| 7 | 5.0 |
| 8 | 4.0 |
| 9 | 4.0 |
| 10 | 6.0 |
| Avg. Width (ft.) = | 6.3 |

McNeil Core Sample

| Date Processed: | Particle | Diameter (mm) | Total Dry Weight (g): | %Total | %Cumm. |
|-----------------|-------------------------|---------------|-----------------------|------------|--------|
| | | | Weight (grams) | | |
| 09-Nov-98 | Vry Fine Sand | 0.125 | 1 | 0 | 0 |
| | Fine Sand | 0.250 | 2 | 0 | 0 |
| | Medium Sand | 0.500 | 4 | 0 | 0 |
| | Coarse Sand | 0.850 | 2.5 | 0 | 0 |
| | Vry Coarse Sand | 1.0 | 20.5 | 1 | 1 |
| | Vry Fine Gravel | 2.0 | 107 | 4 | 6 |
| | Fine Gravel | 4.75 | 70 | 3 | 8 |
| | Fine Gravel | 6.3 | 87.5 | 4 | 12 |
| | Medium Gravel | 8.0 | 432 | 18 | 30 |
| | Coarse Gravel | 16.0 | 787.5 | 32 | 62 |
| | Vry Coarse Gravel | 31.5 | 936 | 38 | 100 |
| | Small Cobble | 63.5 | 0 | 0 | 100 |
| | Total Weight (g) | | 2450 | 100 | |

$D_g =$ % < 6.3mm

$F_i =$ % < 0.88mm

Wolman Pebble Count

| Size Range (mm) | Item Count | %Total | %Cumm. |
|-----------------|------------|--------|--------|
| 0-2 | 5 | 5 | 5 |
| 2-4 | 15 | 15 | 20 |
| 4-8 | 15 | 15 | 35 |
| 8-16 | 16 | 16 | 51 |
| 16-32 | 17 | 17 | 68 |
| 32-64 | 12 | 12 | 80 |
| 64-128 | 10 | 10 | 90 |
| 128-256 | 10 | 10 | 100 |
| 256-512 | 0 | 0 | 100 |
| 512-1024 | 0 | 0 | 100 |
| 1024-2048 | 0 | 0 | 100 |
| 2048-4096 | 0 | 0 | 100 |

Total

30 Count Results

| | | | | | |
|----|-----|----|----|----|-----|
| 1 | 91 | 11 | 45 | 21 | 40 |
| 2 | 102 | 12 | 44 | 22 | 51 |
| 3 | 80 | 13 | 88 | 23 | 57 |
| 4 | 85 | 14 | 28 | 24 | 62 |
| 5 | 60 | 15 | 76 | 25 | 41 |
| 6 | 58 | 16 | 61 | 26 | 140 |
| 7 | 34 | 17 | 50 | 27 | 100 |
| 8 | 38 | 18 | 47 | 28 | 38 |
| 9 | 20 | 19 | 21 | 29 | 44 |
| 10 | 29 | 20 | 60 | 30 | 57 |

* Estimated % survival to emergence was calculated using the equation published by Weaver and Fraley, 1993.

** Redd potential was determined by dividing area of suitable spawning gravel by average redd size (Thurow and King, 1994)

*** Production Index is an estimate of fry production calculated by multiplying redd potential by the estimated % survival to emergence and the calculated egg deposition (E) for the average sized female (310mm), using a length-fecundity relation for westslope cutthroat trout ($E=82.63e^{0.007988L}$), where L is fork length in millimeters (Downs and Shepard). Total egg deposition is assumed to be distributed between 3 redds for every 2 spawning females (Scott and Crossman 1973).

**** Geometric mean diameter (D_g) was calculated by a method of moments using the formula of Lotspeich and Everest (1981):

$D_g = D_a^{P_a} \times \dots \times D_i^{P_i}$; where D_g = the geometric mean (mm); D_i = the mean diameter (mm) of material retained on sieve i ;

P_i = the proportion by weight of the entire sample made up of material retained on sieve i .

***** The fredie index (F_i) was calculated using the formula: $F_i = D_g/S_o$; where S_o = a sorting coefficient

Spawning Gravel Survey, 1998 - Results and Analysis

Date Collected:

Location :

Initials:

Reach: Site Number:

Spawning Gravel Analysis

% Usable Spawning Area =

Est. % Survival to Emergence:

Redd Potential (#):

Production Index:

#fry/100m²:

Bankfull Area (ft²):

Gravel Quantity (ft²):

Bankfull Width

| | |
|----|------|
| 1 | 12.0 |
| 2 | 7.0 |
| 3 | 9.0 |
| 4 | 10.0 |
| 5 | 9.0 |
| 6 | 10.0 |
| 7 | 7.0 |
| 8 | 6.0 |
| 9 | 5.0 |
| 10 | 6.0 |

Avg. Width (ft.) =

McNeil Core Sample

Date Processed: 10-Nov-98 Total Dry Weight (g):

| Particle | Diameter (mm) | Weight (grams) | %Total | %Cumm. |
|-------------------|---------------|----------------|------------|--------|
| Vry Fine Sand | 0.125 | 10 | 0 | 0 |
| Fine Sand | 0.250 | 25 | 1 | 1 |
| Medium Sand | 0.500 | 62.5 | 1 | 2 |
| Coarse Sand | 0.850 | 33 | 1 | 3 |
| Vry Coarse Sand | 1.0 | 224.5 | 5 | 7 |
| Vry Fine Gravel | 2.0 | 435 | 9 | 16 |
| Fine Gravel | 4.75 | 185 | 4 | 20 |
| Fine Gravel | 6.3 | 165.5 | 3 | 23 |
| Medium Gravel | 8.0 | 618.5 | 13 | 36 |
| Coarse Gravel | 16.0 | 1319.5 | 27 | 62 |
| Vry Coarse Gravel | 31.5 | 1670 | 34 | 96 |
| Small Cobble | 63.5 | 193.5 | 4 | 100 |
| Total Weight (g) | | 4942 | 100 | |

D_g =

% < 6.3mm:

F_i =

% < 0.88mm:

Wolman Pebble Count

| Size Range (mm) | Item Count | %Total | %Cumm. |
|-----------------|------------|--------|--------|
| 0-2 | 7 | 7 | 7 |
| 2-4 | 5 | 5 | 12 |
| 4-8 | 13 | 13 | 25 |
| 8-16 | 16 | 16 | 41 |
| 16-32 | 22 | 22 | 63 |
| 32-64 | 27 | 27 | 90 |
| 64-128 | 10 | 10 | 100 |
| 128-256 | 0 | 0 | 100 |
| 256-512 | 0 | 0 | 100 |
| 512-1024 | 0 | 0 | 100 |
| 1024-2048 | 0 | 0 | 100 |
| 2048-4096 | 0 | 0 | 100 |

Total:

30 Count Results

| | | | | | |
|----|-----|----|----|----|-----|
| 1 | 150 | 11 | 14 | 21 | 72 |
| 2 | 121 | 12 | 26 | 22 | 80 |
| 3 | 46 | 13 | 13 | 23 | 66 |
| 4 | 43 | 14 | 35 | 24 | 145 |
| 5 | 35 | 15 | 7 | 25 | 203 |
| 6 | 10 | 16 | 6 | 26 | 26 |
| 7 | 2 | 17 | 7 | 27 | 30 |
| 8 | 105 | 18 | 14 | 28 | 32 |
| 9 | 84 | 19 | 21 | 29 | 4 |
| 10 | 300 | 20 | 24 | 30 | 16 |

* Estimated % survival to emergence was calculated using the equation published by Weaver and Fraley, 1993.

** Redd potential was determined by dividing area of suitable spawning gravel by average redd size (Thurrow and King, 1994)

*** Production Index is an estimate of fry production calculated by multiplying redd potential by the estimated % survival to emergence and the calculated egg deposition (E) for the average sized female (310mm), using a length-fecundity relation for westslope cutthroat trout ($E=82.63e^{0.007958L}$), where L is fork length in millimeters (Downs and Shepard). Total egg deposition is assumed to be distributed between 3 redds for every 2 spawning females (Scott and Crossman 1973).

**** Geometric mean diameter (D_g) was calculated by a method of moments using the formula of Lotspeich and Everest (1981):

$D_g = D_8^{P_8} \times \dots \times D_i^{P_i}$; where D_g = the geometric mean (mm); D_i = the mean diameter (mm) of material retained on sieve i ;

P_i = the proportion by weight of the entire sample made up of material retained on sieve i .

***** The fredele index (F_i) was calculated using the formula: $F_i = D_g/S_o$; where S_o = a sorting coefficient

Spawning Gravel Survey, 1998 - Results and Analysis

Date Collected:

Location :

Initials:

Reach: Site Number:

Spawning Gravel Analysis

% Usable Spawning Area =

Est. % Survival to Emergence:

Redd Potential (#): Production Index: #fry/100m²

Bankfull Area (ft²): Gravel Quantity (ft²):

Bankfull Width

| | |
|----|------|
| 1 | 11.0 |
| 2 | 12.0 |
| 3 | 14.0 |
| 4 | 10.0 |
| 5 | 10.0 |
| 6 | 9.0 |
| 7 | 8.0 |
| 8 | 12.0 |
| 9 | 11.0 |
| 10 | 10.0 |

Avg. Width (ft.) =

McNeil Core Sample

| Date Processed: | 10-Nov-98 | Total Dry Weight (g): | 4127 | |
|-------------------------|---------------|-----------------------|------------|--------|
| Particle | Diameter (mm) | Weight (grams) | %Total | %Cumm. |
| Vry Fine Sand | 0.125 | 5.5 | 0 | 0 |
| Fine Sand | 0.250 | 7.5 | 0 | 0 |
| Medium Sand | 0.500 | 10 | 0 | 1 |
| Coarse Sand | 0.850 | 4 | 0 | 1 |
| Vry Coarse Sand | 1.0 | 43 | 1 | 2 |
| Vry Fine Gravel | 2.0 | 98.5 | 2 | 4 |
| Fine Gravel | 4.75 | 53 | 1 | 5 |
| Fine Gravel | 6.3 | 56 | 1 | 6 |
| Medium Gravel | 8.0 | 375.5 | 9 | 15 |
| Coarse Gravel | 16.0 | 1253.5 | 29 | 44 |
| Vry Coarse Gravel | 31.5 | 2430 | 56 | 100 |
| Small Cobble | 63.5 | 0 | 0 | 100 |
| Total Weight (g) | | 4336.5 | 100 | |

$D_g =$

% < 6.3mm

$F_i =$

% < 0.88mm

Wolman Pebble Count

| Size Range (mm) | Item Count | %Total | %Cumm. |
|-----------------|------------|--------|--------|
| 0-2 | 5 | 5 | 5 |
| 2-4 | 11 | 11 | 16 |
| 4-8 | 15 | 15 | 31 |
| 8-16 | 15 | 15 | 46 |
| 16-32 | 20 | 20 | 66 |
| 32-64 | 18 | 18 | 84 |
| 64-128 | 16 | 16 | 100 |
| 128-256 | 0 | 0 | 100 |
| 256-512 | 0 | 0 | 100 |
| 512-1024 | 0 | 0 | 100 |
| 1024-2048 | 0 | 0 | 100 |
| 2048-4096 | 0 | 0 | 100 |

Total

30 Count Results

| | | | | | |
|----|----|----|-----|----|----|
| 1 | 83 | 11 | 108 | 21 | 56 |
| 2 | 74 | 12 | 120 | 22 | 91 |
| 3 | 69 | 13 | 80 | 23 | 15 |
| 4 | 54 | 14 | 62 | 24 | 74 |
| 5 | 30 | 15 | 75 | 25 | 71 |
| 6 | 57 | 16 | 90 | 26 | 64 |
| 7 | 28 | 17 | 30 | 27 | 87 |
| 8 | 40 | 18 | 31 | 28 | 21 |
| 9 | 48 | 19 | 70 | 29 | 28 |
| 10 | 55 | 20 | 71 | 30 | 23 |

* Estimated % survival to emergence was calculated using the equation published by Weaver and Fraley, 1993.

** Redd potential was determined by dividing area of suitable spawning gravel by average redd size (Thurow and King, 1994)

*** Production Index is an estimate of fry production calculated by multiplying redd potential by the estimated % survival to emergence and the calculated egg deposition (E) for the average sized female (310mm), using a length-fecundity relation for westslope cutthroat trout ($E=82.63e^{0.007958L}$), where L is fork length in millimeters (Downs and Shepard). Total egg deposition is assumed to be distributed between 3 redds for every 2 spawning females (Scott and Crossman 1973).

**** Geometric mean diameter (D_g) was calculated by a method of moments using the formula of Lotspeich and Everest (1981):

$D_g = D_a^{P_a} \times \dots \times D_i^{P_i}$; where D_g = the meometric mean (mm); D_i = the mean diameter (mm) of material retained on sieve i ;

P_i = the proportion by weight of the entire sample made up of material retained on sieve i .

***** The fredle index (F_i) was calculated using the formula: $F_i = D_g/S_o$; where S_o = a sorting coefficient

Spawning Gravel Survey, 1998 - Results and Analysis

Date Collected:

Location :

Initials:

Reach: Site Number:

Spawning Gravel Analysis

% Usable Spawning Area =

Est. % Survival to Emergence:

Redd Potential (#): Production Index: #fry/100m²

Bankfull Area (ft²): Gravel Quantity (ft²):

Bankfull Width

| | |
|----|------|
| 1 | 13.0 |
| 2 | 10.0 |
| 3 | 12.0 |
| 4 | 9.0 |
| 5 | 8.0 |
| 6 | 10.0 |
| 7 | 6.0 |
| 8 | 8.0 |
| 9 | 4.0 |
| 10 | 10.0 |

Avg. Width (ft.) =

McNeil Core Sample

| Date Processed: | 12-Nov-98 | Total Dry Weight (g): | <u>2649.5</u> | %Total | %Cumm. |
|-------------------------|---------------|-----------------------|---------------|--------|--------|
| Particle | Diameter (mm) | Weight (grams) | | | |
| Vry Fine Sand | 0.125 | 0.5 | 0 | 0 | 0 |
| Fine Sand | 0.250 | 1 | 0 | 0 | 0 |
| Medium Sand | 0.500 | 1 | 0 | 0 | 0 |
| Coarse Sand | 0.850 | 0.5 | 0 | 0 | 0 |
| Vry Coarse Sand | 1.0 | 2 | 0 | 0 | 0 |
| Vry Fine Gravel | 2.0 | 48 | 2 | 2 | 2 |
| Fine Gravel | 4.75 | 1.5 | 0 | 2 | 2 |
| Fine Gravel | 6.3 | 6 | 0 | 2 | 2 |
| Medium Gravel | 8.0 | 91.5 | 3 | 6 | 6 |
| Coarse Gravel | 16.0 | 755 | 28 | 34 | 34 |
| Vry Coarse Gravel | 31.5 | 1774.5 | 66 | 100 | 100 |
| Small Cobble | 63.5 | 0 | 0 | 100 | 100 |
| Total Weight (g) | | 2681.5 | 100 | | |

$D_g = \boxed{23.4}$ % < 6.3mm =

$F_i = \boxed{16.6}$ % < 0.88mm =

Wolman Pebble Count

| Size Range (mm) | Item Count | %Total | %Cumm. |
|-----------------|------------|--------|--------|
| 0-2 | 4 | 4 | 4 |
| 2-4 | 6 | 6 | 10 |
| 4-8 | 20 | 20 | 30 |
| 8-16 | 32 | 32 | 62 |
| 16-32 | 18 | 18 | 80 |
| 32-64 | 20 | 20 | 100 |
| 64-128 | 0 | 0 | 100 |
| 128-256 | 0 | 0 | 100 |
| 256-512 | 0 | 0 | 100 |
| 512-1024 | 0 | 0 | 100 |
| 1024-2048 | 0 | 0 | 100 |
| 2048-4096 | 0 | 0 | 100 |

Total

30 Count Results

| | | | | | |
|----|----|----|-----|----|----|
| 1 | 27 | 11 | 16 | 21 | 28 |
| 2 | 26 | 12 | 66 | 22 | 36 |
| 3 | 65 | 13 | 124 | 23 | 16 |
| 4 | 72 | 14 | 106 | 24 | 12 |
| 5 | 14 | 15 | 60 | 25 | 10 |
| 6 | 19 | 16 | 58 | 26 | 17 |
| 7 | 26 | 17 | 52 | 27 | 21 |
| 8 | 24 | 18 | 40 | 28 | 19 |
| 9 | 8 | 19 | 32 | 29 | 16 |
| 10 | 4 | 20 | 24 | 30 | 24 |

* Estimated % survival to emergence was calculated using the equation published by Weaver and Fraley, 1993.

** Redd potential was determined by dividing area of suitable spawning gravel by average redd size (Thurrow and King, 1994)

*** Production Index is an estimate of fry production calculated by multiplying redd potential by the estimated % survival to emergence and the calculated egg deposition (E) for the average sized female (310mm), using a length-fecundity relation for westslope cutthroat trout ($E=82.63e^{0.007958L}$), where L is fork length in millimeters (Downs and Shepard). Total egg deposition is assumed to be distributed between 3 redds for every 2 spawning females (Scott and Crossman 1973).

**** Geometric mean diameter (D_g) was calculated by a method of moments using the formula of Lotspeich and Everest (1981):

$D_g = D_g^{P_a} \times \dots \times D_i^{P_i}$; where D_g = the meometric mean (mm); D_i = the mean diameter (mm) of material retained on sieve i ;

P_i = the proportion by weight of the entire sample made up of material retained on sieve i .

***** The freidle index (F_i) was calculated using the formula: $F_i = D_g/S_o$; where S_o = a sorting coefficient

Spawning Gravel Survey, 1998 - Results and Analysis

Date Collected: Location :
 Initials: Reach: Site Number:

Spawning Gravel Analysis

% Usable Spawning Area =

Est. % Survival to Emergence:

Redd Potential (#): Production Index: #fry/100m²

Bankfull Area (ft²): Gravel Quantity (ft²):

| Bankfull Width | |
|--------------------|------|
| 1 | 9.0 |
| 2 | 12.0 |
| 3 | 15.0 |
| 4 | 8.0 |
| 5 | 7.0 |
| 6 | 10.0 |
| 7 | 14.0 |
| 8 | 10.0 |
| 9 | 8.0 |
| 10 | 6.0 |
| Avg. Width (ft.) = | |
| | 9.9 |

McNeil Core Sample

| Date Processed: | 03-Dec-98 | Total Dry Weight (g): | <u>2959.5</u> | |
|-------------------------|---------------|-----------------------|---------------|--------|
| Particle | Diameter (mm) | Weight (grams) | %Total | %Cumm. |
| Vry Fine Sand | 0.125 | 7.5 | 0 | 0 |
| Fine Sand | 0.250 | 17 | 1 | 1 |
| Medium Sand | 0.500 | 32 | 1 | 2 |
| Coarse Sand | 0.850 | 13 | 0 | 2 |
| Vry Coarse Sand | 1.0 | 95.5 | 3 | 6 |
| Vry Fine Gravel | 2.0 | 240.5 | 8 | 14 |
| Fine Gravel | 4.75 | 149 | 5 | 19 |
| Fine Gravel | 6.3 | 207.5 | 7 | 26 |
| Medium Gravel | 8.0 | 863.5 | 29 | 55 |
| Coarse Gravel | 16.0 | 1197.5 | 41 | 96 |
| Vry Coarse Gravel | 31.5 | 125 | 4 | 100 |
| Small Cobble | 63.5 | 0 | 0 | 100 |
| Total Weight (g) | | 2948.5 | 100 | |

D_g = % < 6.3mm

F_i = % < 0.88mm

Wolman Pebble Count

| Size Range (mm) | Item Count | %Total | %Cumm. |
|-----------------|------------|--------|--------|
| 0-2 | 7 | 7 | 7 |
| 2-4 | 23 | 23 | 30 |
| 4-8 | 19 | 19 | 49 |
| 8-16 | 22 | 22 | 71 |
| 16-32 | 16 | 16 | 87 |
| 32-64 | 12 | 12 | 99 |
| 64-128 | 1 | 1 | 100 |
| 128-256 | 0 | 0 | 100 |
| 256-512 | 0 | 0 | 100 |
| 512-1024 | 0 | 0 | 100 |
| 1024-2048 | 0 | 0 | 100 |
| 2048-4096 | 0 | 0 | 100 |

Total

30 Count Results

| | | | | | |
|----|----|----|----|----|----|
| 1 | 15 | 11 | 71 | 21 | 38 |
| 2 | 31 | 12 | 84 | 22 | 27 |
| 3 | 29 | 13 | 56 | 23 | 20 |
| 4 | 41 | 14 | 50 | 24 | 19 |
| 5 | 50 | 15 | 27 | 25 | 40 |
| 6 | 33 | 16 | 37 | 26 | 52 |
| 7 | 39 | 17 | 41 | 27 | 62 |
| 8 | 28 | 18 | 50 | 28 | 77 |
| 9 | 60 | 19 | 90 | 29 | 64 |
| 10 | 68 | 20 | 92 | 30 | 51 |

* Estimated % survival to emergence was calculated using the equation published by Weaver and Fraley, 1993.

** Redd potential was determined by dividing area of suitable spawning gravel by average redd size (Thurrow and King, 1994)

*** Production Index is an estimate of fry production calculated by multiplying redd potential by the estimated % survival to emergence and the calculated egg deposition (E) for the average sized female (310mm), using a length-fecundity relation for westslope cutthroat trout ($E=82.63e^{0.007958L}$), where L is fork length in millimeters (Downs and Shepard). Total egg deposition is assumed to be distributed between 3 redds for every 2 spawning females (Scott and Crossman 1973).

**** Geometric mean diameter (D_g) was calculated by a method of moments using the formula of Lotspeich and Everest (1981):

$D_g = D_a^{P_a} \times \dots \times D_i^{P_i}$; where D_g = the geometric mean (mm); D_i = the mean diameter (mm) of material retained on sieve i ;

P_i = the proportion by weight of the entire sample made up of material retained on sieve i .

***** The fredele index (F_i) was calculated using the formula: $F_i = D_g/S_o$; where S_o = a sorting coefficient

Spawning Gravel Survey, 1998 - Results and Analysis

Date Collected:

Location :

Initials:

Reach: Site Number:

Spawning Gravel Analysis

% Usable Spawning Area =

Est. % Survival to Emergence:

Redd Potential (#):

Production Index:

#fry/100m²

Bankfull Area (ft²):

Gravel Quantity (ft²):

Bankfull Width

| | |
|----|------|
| 1 | 14.0 |
| 2 | 10.0 |
| 3 | 12.0 |
| 4 | 18.0 |
| 5 | 9.0 |
| 6 | 8.0 |
| 7 | 6.0 |
| 8 | 12.0 |
| 9 | 13.0 |
| 10 | 6.0 |

Avg. Width (ft.) =

McNeil Core Sample

Date Processed: 20-Aug-98 Total Dry Weight (g):

| Particle | Diameter (mm) | Weight (grams) | %Total | %Cumm. |
|-------------------|---------------|----------------|--------|--------|
| Vry Fine Sand | 0.125 | 37.5 | 1 | 1 |
| Fine Sand | 0.250 | 127.5 | 3 | 4 |
| Medium Sand | 0.500 | 248 | 6 | 10 |
| Coarse Sand | 0.850 | 66.5 | 2 | 12 |
| Vry Coarse Sand | 1.0 | 258.5 | 6 | 18 |
| Vry Fine Gravel | 2.0 | 297.5 | 7 | 25 |
| Fine Gravel | 4.75 | 108.5 | 3 | 28 |
| Fine Gravel | 6.3 | 96 | 2 | 30 |
| Medium Gravel | 8.0 | 517.5 | 13 | 43 |
| Coarse Gravel | 16.0 | 999 | 24 | 67 |
| Vry Coarse Gravel | 31.5 | 933 | 23 | 90 |
| Small Cobble | 63.5 | 418.5 | 10 | 100 |
| Total Weight (g) | | 4108 | 100 | |

D_g =

% < 6.3mm

F_i =

% < 0.88mm

Wolman Pebble Count

Size Range (mm) Item Count %Total %Cumm.

| | | | |
|-----------|----|----|-----|
| 0-2 | 1 | 1 | 1 |
| 2-4 | 7 | 7 | 8 |
| 4-8 | 16 | 16 | 24 |
| 8-16 | 20 | 20 | 44 |
| 16-32 | 25 | 25 | 69 |
| 32-64 | 20 | 20 | 89 |
| 64-128 | 10 | 10 | 99 |
| 128-256 | 1 | 1 | 100 |
| 256-512 | 0 | 0 | 100 |
| 512-1024 | 0 | 0 | 100 |
| 1024-2048 | 0 | 0 | 100 |
| 2048-4096 | 0 | 0 | 100 |

Total

30 Count Results

| | |
|----|-----|
| 1 | 90 |
| 2 | 95 |
| 3 | 100 |
| 4 | 103 |
| 5 | 86 |
| 6 | 80 |
| 7 | 78 |
| 8 | 74 |
| 9 | 41 |
| 10 | 83 |

| | |
|----|-----|
| 11 | 70 |
| 12 | 80 |
| 13 | 97 |
| 14 | 83 |
| 15 | 79 |
| 16 | 58 |
| 17 | 100 |
| 18 | 87 |
| 19 | 78 |
| 20 | 50 |

| | |
|----|-----|
| 21 | 64 |
| 22 | 47 |
| 23 | 60 |
| 24 | 56 |
| 25 | 115 |
| 26 | 80 |
| 27 | 80 |
| 28 | 85 |
| 29 | 64 |
| 30 | 87 |

* Estimated % survival to emergence was calculated using the equation published by Weaver and Fraley, 1993.

** Redd potential was determined by dividing area of suitable spawning gravel by average redd size (Thurrow and King, 1994)

*** Production Index is an estimate of fry production calculated by multiplying redd potential by the estimated % survival to emergence and the calculated egg deposition (E) for the average sized female (310mm), using a length-fecundity relation for westslope cutthroat trout ($E=82.63e^{0.007958L}$), where L is fork length in millimeters (Downs and Shepard). Total egg deposition is assumed to be distributed between 3 redds for every 2 spawning females (Scott and Crossman 1973).

**** Geometric mean diameter (D_g) was calculated by a method of moments using the formula of Lotspeich and Everest (1981):

$D_g = D_a^{P_a} \times D_1^{P_1} \times \dots \times D_i^{P_i}$; where D_g = the geometric mean (mm); D_i = the mean diameter (mm) of material retained on sieve i ;

P_i = the proportion by weight of the entire sample made up of material retained on sieve i .

***** The fredele index (F_i) was calculated using the formula: $F_i = D_g/S_o$; where S_o = a sorting coefficient

Spawning Gravel Survey, 1998 - Results and Analysis

Date Collected: Location :
Initials: Reach: Site Number:

Spawning Gravel Analysis

% Usable Spawning Area =

Est. % Survival to Emergence:

Redd Potential (#): Production Index: #fry/100m²

Bankfull Area (ft²): Gravel Quantity (ft²):

Bankfull Width

| | |
|----|------|
| 1 | 8.0 |
| 2 | 7.0 |
| 3 | 8.5 |
| 4 | 9.0 |
| 5 | 8.0 |
| 6 | 9.0 |
| 7 | 16.0 |
| 8 | 12.0 |
| 9 | 10.0 |
| 10 | 10.0 |

Avg. Width (ft.) =

McNeil Core Sample

| Date Processed: | 20-Aug-98 | Total Dry Weight (g): | <u>4313</u> | |
|-------------------------|---------------|-----------------------|-------------|--------|
| Particle | Diameter (mm) | Weight (grams) | %Total | %Cumm. |
| Vry Fine Sand | 0.125 | 65.5 | 1 | 1 |
| Fine Sand | 0.250 | 112 | 2 | 4 |
| Medium Sand | 0.500 | 125.5 | 3 | 7 |
| Coarse Sand | 0.850 | 40 | 1 | 8 |
| Vry Coarse Sand | 1.0 | 522 | 12 | 19 |
| Vry Fine Gravel | 2.0 | 520 | 11 | 31 |
| Fine Gravel | 4.75 | 250.5 | 6 | 36 |
| Fine Gravel | 6.3 | 226 | 5 | 41 |
| Medium Gravel | 8.0 | 885 | 20 | 61 |
| Coarse Gravel | 16.0 | 764 | 17 | 77 |
| Vry Coarse Gravel | 31.5 | 539.5 | 12 | 89 |
| Small Cobble | 63.5 | 483.5 | 11 | 100 |
| Total Weight (g) | | 4533 | 100 | |

D_g = % < 6.3mm

F_i = % < 0.88mm

Wolman Pebble Count

| Size Range (mm) | Item Count | %Total | %Cumm. |
|-----------------|------------|--------|--------|
| 0-2 | 8 | 8 | 8 |
| 2-4 | 7 | 7 | 15 |
| 4-8 | 8 | 8 | 24 |
| 8-16 | 9 | 9 | 33 |
| 16-32 | 8 | 8 | 41 |
| 32-64 | 9 | 9 | 51 |
| 64-128 | 16 | 16 | 67 |
| 128-256 | 12 | 12 | 79 |
| 256-512 | 10 | 10 | 90 |
| 512-1024 | 10 | 10 | 100 |
| 1024-2048 | 0 | 0 | 100 |
| 2048-4096 | 0 | 0 | 100 |

Total

30 Count Results

| | | | | | |
|----|----|----|----|----|----|
| 1 | 50 | 11 | 93 | 21 | 30 |
| 2 | 58 | 12 | 60 | 22 | 36 |
| 3 | 49 | 13 | 34 | 23 | 30 |
| 4 | 53 | 14 | 45 | 24 | 33 |
| 5 | 65 | 15 | 28 | 25 | 27 |
| 6 | 40 | 16 | 40 | 26 | 38 |
| 7 | 90 | 17 | 40 | 27 | 40 |
| 8 | 50 | 18 | 35 | 28 | 24 |
| 9 | 41 | 19 | 41 | 29 | 60 |
| 10 | 56 | 20 | 34 | 30 | 40 |

* Estimated % survival to emergence was calculated using the equation published by Weaver and Fraley, 1993.

** Redd potential was determined by dividing area of suitable spawning gravel by average redd size (Thurow and King, 1994)

*** Production Index is an estimate of fry production calculated by multiplying redd potential by the estimated % survival to emergence and the calculated egg deposition (E) for the average sized female (310mm), using a length-fecundity relation for westslope cutthroat trout ($E=82.63e^{0.007958L}$), where L is fork length in millimeters (Downs and Shepard). Total egg deposition is assumed to be distributed between 3 redds for every 2 spawning females (Scott and Crossman 1973).

**** Geometric mean diameter (D_g) was calculated by a method of moments using the formula of Lotspeich and Everest (1981):

$$D_g = D_a^{P_a} \times \dots \times D_i^{P_i}; \text{ where } D_g = \text{the meometric mean (mm)}; D_i = \text{the mean diameter (mm) of material retained on sieve } i;$$

P_i = the proportion by weight of the entire sample made up of material retained on sieve i .

***** The fredle index (F_i) was calculated using the formula: $F_i = D_g/S_o$; where S_o = a sorting coefficient

Spawning Gravel Survey, 1998 - Results and Analysis

Date Collected:

Location :

Initials:

Reach: Site Number:

Spawning Gravel Analysis

% Usable Spawning Area =

Est. % Survival to Emergence:

Redd Potential (#):

Production Index:

#fry/100m²:

Bankfull Area (ft²):

Gravel Quantity (ft²):

Bankfull Width

| | |
|--------------------|------|
| 1 | 27.0 |
| 2 | 24.0 |
| 3 | 14.0 |
| 4 | 12.0 |
| 5 | 18.0 |
| 6 | 20.0 |
| 7 | 12.0 |
| 8 | 11.0 |
| 9 | 10.0 |
| 10 | 12.0 |
| Avg. Width (ft.) = | 16 |

McNeil Core Sample

| Date Processed: | 02-Sep-98 | Total Dry Weight (g): | 2816.5 | |
|-------------------------|---------------|-----------------------|------------|--------|
| Particle | Diameter (mm) | Weight (grams) | %Total | %Cumm. |
| Vry Fine Sand | 0.125 | 8.5 | 0 | 0 |
| Fine Sand | 0.250 | 21 | 1 | 1 |
| Medium Sand | 0.500 | 42 | 2 | 3 |
| Coarse Sand | 0.850 | 15.5 | 1 | 3 |
| Vry Coarse Sand | 1.0 | 132.5 | 5 | 8 |
| Vry Fine Gravel | 2.0 | 168 | 6 | 14 |
| Fine Gravel | 4.75 | 66 | 2 | 16 |
| Fine Gravel | 6.3 | 84 | 3 | 19 |
| Medium Gravel | 8.0 | 707.5 | 26 | 45 |
| Coarse Gravel | 16.0 | 762 | 28 | 73 |
| Vry Coarse Gravel | 31.5 | 753 | 27 | 100 |
| Small Cobble | 63.5 | 0 | 0 | 100 |
| Total Weight (g) | | 2760 | 100 | |

D_g = % < 6.3mm

F_i = % < 0.88mm

Wolman Pebble Count

| Size Range (mm) | Item Count | %Total | %Cumm. |
|-----------------|------------|--------|--------|
| 0-2 | 8 | 8 | 8 |
| 2-4 | 13 | 13 | 21 |
| 4-8 | 15 | 15 | 36 |
| 8-16 | 17 | 17 | 53 |
| 16-32 | 25 | 25 | 78 |
| 32-64 | 15 | 15 | 93 |
| 64-128 | 7 | 7 | 100 |
| 128-256 | 0 | 0 | 100 |
| 256-512 | 0 | 0 | 100 |
| 512-1024 | 0 | 0 | 100 |
| 1024-2048 | 0 | 0 | 100 |
| 2048-4096 | 0 | 0 | 100 |
| Total | 100 | | |

Total

30 Count Results

| | | | | | |
|----|-----|----|----|----|-----|
| 1 | 32 | 11 | 52 | 21 | 104 |
| 2 | 64 | 12 | 12 | 22 | 112 |
| 3 | 200 | 13 | 18 | 23 | 15 |
| 4 | 164 | 14 | 25 | 24 | 94 |
| 5 | 12 | 15 | 16 | 25 | 99 |
| 6 | 29 | 16 | 13 | 26 | 86 |
| 7 | 30 | 17 | 14 | 27 | 74 |
| 8 | 42 | 18 | 18 | 28 | 75 |
| 9 | 63 | 19 | 29 | 29 | 26 |
| 10 | 75 | 20 | 78 | 30 | 29 |

* Estimated % survival to emergence was calculated using the equation published by Weaver and Fraley, 1993.

** Redd potential was determined by dividing area of suitable spawning gravel by average redd size (Thrurow and King, 1994)

*** Production Index is an estimate of fry production calculated by multiplying redd potential by the estimated % survival to emergence and the calculated egg deposition (E) for the average sized female (310mm), using a length-fecundity relation for westslope cutthroat trout ($E=82.63e^{0.007958L}$), where L is fork length in millimeters (Downs and Shepard). Total egg deposition is assumed to be distributed between 3 redds for every 2 spawning females (Scott and Crossman 1973).

**** Geometric mean diameter (D_g) was calculated by a method of moments using the formula of Lotspeich and Everest (1981):

$D_g = D_a^{P_a} \times \dots \times D_i^{P_i}$; where D_g = the meometric mean (mm); D_i = the mean diameter (mm) of material retained on sieve i ;

P_i = the proportion by weight of the entire sample made up of material retained on sieve i .

***** The fredele index (F_i) was calculated using the formula: $F_i = D_g/S_o$; where S_o = a sorting coefficient

Spawning Gravel Survey, 1998 - Results and Analysis

Date Collected:

Location :

Initials:

Reach:

Site Number:

Spawning Gravel Analysis

% Usable Spawning Area =

Est. % Survival to Emergence:

Redd Potential (#): Production Index: #fry/100m²

Bankfull Area (ft²): Gravel Quantity (ft²):

Bankfull Width

| | |
|----|------|
| 1 | 5.0 |
| 2 | 7.0 |
| 3 | 10.0 |
| 4 | 13.0 |
| 5 | 9.0 |
| 6 | 5.0 |
| 7 | 5.0 |
| 8 | 8.0 |
| 9 | 8.0 |
| 10 | 12.0 |

Avg. Width (ft.) =

McNeil Core Sample

Date Processed: 13-Nov-98 Total Dry Weight (g):

| Particle | Diameter (mm) | Weight (grams) | %Total | %Cumm. |
|-------------------|---------------|----------------|------------|--------|
| Vry Fine Sand | 0.125 | 7.5 | 0 | 0 |
| Fine Sand | 0.250 | 18.5 | 1 | 1 |
| Medium Sand | 0.500 | 43 | 1 | 2 |
| Coarse Sand | 0.850 | 20 | 1 | 3 |
| Vry Coarse Sand | 1.0 | 136 | 4 | 7 |
| Vry Fine Gravel | 2.0 | 455 | 13 | 20 |
| Fine Gravel | 4.75 | 300 | 9 | 29 |
| Fine Gravel | 6.3 | 274.5 | 8 | 37 |
| Medium Gravel | 8.0 | 1470.5 | 43 | 80 |
| Coarse Gravel | 16.0 | 701.5 | 20 | 100 |
| Vry Coarse Gravel | 31.5 | 0 | 0 | 100 |
| Small Cobble | 63.5 | 0 | 0 | 100 |
| Total Weight (g) | | 3426.5 | 100 | |

$D_g = \sqrt{D_a^2 + D_b^2 + \dots + D_n^2}$ = % < 6.3mm =

$F_i = \frac{\sum D_i}{\sum D_g} = \frac{4.7}{6.1} = 4.7$ % < 0.88mm =

Wolman Pebble Count

Size Range (mm) Item Count %Total %Cumm.

| | | | |
|-----------|----|----|-----|
| 0-2 | 0 | 0 | 0 |
| 2-4 | 11 | 11 | 11 |
| 4-8 | 14 | 14 | 25 |
| 8-16 | 21 | 21 | 46 |
| 16-32 | 26 | 26 | 72 |
| 32-64 | 20 | 20 | 92 |
| 64-128 | 4 | 4 | 96 |
| 128-256 | 4 | 4 | 100 |
| 256-512 | 0 | 0 | 100 |
| 512-1024 | 0 | 0 | 100 |
| 1024-2048 | 0 | 0 | 100 |
| 2048-4096 | 0 | 0 | 100 |

Total

30 Count Results

| | | | | | |
|----|----|----|-----|----|----|
| 1 | 80 | 11 | 101 | 21 | 42 |
| 2 | 65 | 12 | 90 | 22 | 62 |
| 3 | 46 | 13 | 60 | 23 | 75 |
| 4 | 74 | 14 | 37 | 24 | 31 |
| 5 | 30 | 15 | 41 | 25 | 30 |
| 6 | 48 | 16 | 29 | 26 | 51 |
| 7 | 51 | 17 | 25 | 27 | 58 |
| 8 | 52 | 18 | 60 | 28 | 64 |
| 9 | 76 | 19 | 57 | 29 | 88 |
| 10 | 35 | 20 | 38 | 30 | 41 |

* Estimated % survival to emergence was calculated using the equation published by Weaver and Fraley, 1993.

** Redd potential was determined by dividing area of suitable spawning gravel by average redd size (Thurrow and King, 1994)

*** Production Index is an estimate of fry production calculated by multiplying redd potential by the estimated % survival to emergence and the calculated egg deposition (E) for the average sized female (310mm), using a length-fecundity relation for westslope cutthroat trout ($E=82.63e^{0.007958L}$), where L is fork length in millimeters (Downs and Shepard). Total egg deposition is assumed to be distributed between 3 redds for every 2 spawning females (Scott and Crossman 1973).

**** Geometric mean diameter (D_g) was calculated by a method of moments using the formula of Lotspeich and Everest (1981):

$D_g = D_a^{P_1} \times \dots \times D_i^{P_i}$, where D_g = the meometric mean (mm); D_i = the mean diameter (mm) of material retained on sieve i ;

P_i = the proportion by weight of the entire sample made up of material retained on sieve i .

***** The freidle index (F_i) was calculated using the formula: $F_i = D_g/S_0$; where S_0 = a sorting coefficient

Spawning Gravel Survey, 1998 - Analysis and Results

Date Collected:

Location:

Initials:

Reach: Site Number:

Spawning Gravel Analysis

% Usable Spawning Area =

Est. % Survival to Emergence:

Redd Potential (#): Production Index: #fry/100m²:

Bankfull Area (ft²): Gravel Quantity (ft²):

Bankfull Width

| | |
|----|------|
| 1 | 6.0 |
| 2 | 6.0 |
| 3 | 10.0 |
| 4 | 12.0 |
| 5 | 4.0 |
| 6 | 5.0 |
| 7 | 4.0 |
| 8 | 10.0 |
| 9 | 9.0 |
| 10 | 10.0 |

Avg. Width (ft.) =

McNeil Core Sample

| Date Processed: | 25-Aug-98 | Total Dry Weight (g): | <u>3353</u> | |
|-------------------------|---------------|-----------------------|-------------|--------|
| Particle | Diameter (mm) | Weight (grams) | %Total | %Cumm. |
| Vry Fine Sand | 0.125 | 2 | 0 | 0 |
| Fine Sand | 0.250 | 6.5 | 0 | 0 |
| Medium Sand | 0.500 | 15 | 0 | 1 |
| Coarse Sand | 0.850 | 7 | 0 | 1 |
| Vry Coarse Sand | 1.0 | 60.5 | 2 | 3 |
| Vry Fine Gravel | 2.0 | 245.5 | 7 | 10 |
| Fine Gravel | 4.75 | 178 | 5 | 15 |
| Fine Gravel | 6.3 | 208.5 | 6 | 22 |
| Medium Gravel | 8.0 | 890 | 27 | 48 |
| Coarse Gravel | 16.0 | 770.5 | 23 | 71 |
| Vry Coarse Gravel | 31.5 | 969.5 | 29 | 100 |
| Small Cobble | 63.5 | 0 | 0 | 100 |
| Total Weight (g) | | 3353 | 100 | |

$D_g = \boxed{11.3}$ % < 6.3mm

$F_i = \boxed{7.1}$ % < 0.88mm

Wolman Pebble Count

| Size Range (mm) | Item Count | %Total | %Cumm. |
|-----------------|------------|--------|--------|
| 0-2 | 18 | 18 | 18 |
| 2-4 | 27 | 27 | 45 |
| 4-8 | 26 | 26 | 71 |
| 8-16 | 22 | 22 | 93 |
| 16-32 | 7 | 7 | 100 |
| 32-64 | 0 | 0 | 100 |
| 64-128 | 0 | 0 | 100 |
| 128-256 | 0 | 0 | 100 |
| 256-512 | 0 | 0 | 100 |
| 512-1024 | 0 | 0 | 100 |
| 1024-2048 | 0 | 0 | 100 |
| 2048-4096 | 0 | 0 | 100 |

Total

30 Count Results

| | | | | | |
|----|----|----|----|----|----|
| 1 | 29 | 11 | 40 | 21 | 19 |
| 2 | 34 | 12 | 59 | 22 | 27 |
| 3 | 42 | 13 | 65 | 23 | 38 |
| 4 | 58 | 14 | 60 | 24 | 42 |
| 5 | 50 | 15 | 71 | 25 | 50 |
| 6 | 49 | 16 | 76 | 26 | 61 |
| 7 | 31 | 17 | 30 | 27 | 68 |
| 8 | 28 | 18 | 34 | 28 | 70 |
| 9 | 25 | 19 | 28 | 29 | 77 |
| 10 | 37 | 20 | 20 | 30 | 32 |

* Estimated % survival to emergence was calculated using the equation published by Weaver and Fraley, 1993.

** Redd potential was determined by dividing area of suitable spawning gravel by average redd size (Thirow and King, 1994)

*** Production Index is an estimate of fry production calculated by multiplying redd potential by the estimated % survival to emergence and the calculated egg deposition (E) for the average sized female (310mm), using a length-fecundity relation for westslope cutthroat trout ($E=82.63e^{0.007658L}$), where L is fork length in millimeters (Downs and Shepard). Total egg deposition is assumed to be distributed between 3 redds for every 2 spawning females (Scott and Crossman 1973).

**** Geometric mean diameter (D_g) was calculated by a method of moments using the formula of Lotspeich and Everest (1981):

$D_g = D_a^{P_a} \times \dots \times D_i^{P_i}$; where D_a = the meometric mean (mm); D_i = the mean diameter (mm) of material retained on sieve i ;

P_i = the proportion by weight of the entire sample made up of material retained on sieve i .

***** The fredele index (F_i) was calculated using the formula: $F_i = D_g/S_o$; where S_o = a sorting coefficient

Spawning Gravel Survey, 1998 - Results and Analysis

| | | | | | |
|-----------------|----------|------------|-------|--------------|---|
| Date Collected: | 08/24/98 | Location : | ALDER | | |
| Initials: | GA RA | Reach: | 9 | Site Number: | 3 |

Spawning Gravel Analysis

| | | | | | |
|-----------------------------------|--------|-------------------------------------|------|------------------------|------|
| % Usable Spawning Area = | 5.5 | | | | |
| Est. % Survival to Emergence: | 45.4 | | | | |
| Redd Potential (#): | 41 | Production Index: | 2532 | #fry/100m ² | 2271 |
| Bankfull Area (ft ²): | 1200.0 | Gravel Quantity (ft ²): | 65.6 | | |
| Bankfull Width | | | | | |
| 1 | 5.0 | | | | |
| 2 | 6.0 | | | | |
| 3 | 4.0 | | | | |
| 4 | 6.0 | | | | |
| 5 | 5.0 | | | | |
| 6 | 8.0 | | | | |
| 7 | 6.0 | | | | |
| 8 | 4.0 | | | | |
| 9 | 7.0 | | | | |
| 10 | 9.0 | | | | |
| Avg. Width (ft.) = | 6 | | | | |

McNeil Core Sample

| Date Processed: | 12-Nov-98 | Total Dry Weight (g): | 1412 | |
|-------------------------|---------------|-----------------------|------------|--------|
| Particle | Diameter (mm) | Weight (grams) | %Total | %Cumm. |
| Vry Fine Sand | 0.125 | 3 | 0 | 0 |
| Fine Sand | 0.250 | 3.5 | 0 | 0 |
| Medium Sand | 0.500 | 4.5 | 0 | 1 |
| Coarse Sand | 0.850 | 2 | 0 | 1 |
| Vry Coarse Sand | 1.0 | 15.5 | 1 | 2 |
| Vry Fine Gravel | 2.0 | 99.5 | 7 | 9 |
| Fine Gravel | 4.75 | 79.5 | 6 | 15 |
| Fine Gravel | 6.3 | 85.5 | 6 | 21 |
| Medium Gravel | 8.0 | 409.5 | 29 | 50 |
| Coarse Gravel | 16.0 | 655.5 | 47 | 96 |
| Vry Coarse Gravel | 31.5 | 49.5 | 4 | 100 |
| Small Cobble | 63.5 | 0 | 0 | 100 |
| Total Weight (g) | | 1407.5 | 100 | |

$D_g =$ % < 6.3mm

$F_i =$ % < 0.88mm

Wolman Pebble Count

| Size Range (mm) | Item Count | %Total | %Cumm. |
|-----------------|------------|--------|--------|
| 0-2 | 10 | 10 | 10 |
| 2-4 | 15 | 15 | 25 |
| 4-8 | 20 | 20 | 45 |
| 8-16 | 30 | 30 | 75 |
| 16-32 | 20 | 20 | 95 |
| 32-64 | 5 | 5 | 100 |
| 64-128 | 0 | 0 | 100 |
| 128-256 | 0 | 0 | 100 |
| 256-512 | 0 | 0 | 100 |
| 512-1024 | 0 | 0 | 100 |
| 1024-2048 | 0 | 0 | 100 |
| 2048-4096 | 0 | 0 | 100 |
| Total | 100 | | |

30 Count Results

| | | | | | |
|----|----|----|----|----|----|
| 1 | 41 | 11 | 69 | 21 | 34 |
| 2 | 29 | 12 | 80 | 22 | 20 |
| 3 | 55 | 13 | 71 | 23 | 28 |
| 4 | 31 | 14 | 47 | 24 | 48 |
| 5 | 28 | 15 | 29 | 25 | 50 |
| 6 | 62 | 16 | 35 | 26 | 51 |
| 7 | 68 | 17 | 46 | 27 | 67 |
| 8 | 53 | 18 | 72 | 28 | 30 |
| 9 | 43 | 19 | 68 | 29 | 35 |
| 10 | 70 | 20 | 60 | 30 | 40 |

* Estimated % survival to emergence was calculated using the equation published by Weaver and Fraley, 1993.

** Redd potential was determined by dividing area of suitable spawning gravel by average redd size (Thurow and King, 1994)

*** Production Index is an estimate of fry production calculated by multiplying redd potential by the estimated % survival to emergence and the calculated egg deposition (E) for the average sized female (310mm), using a length-fecundity relation for westslope cutthroat trout ($E=82.63e^{0.007958L}$), where L is fork length in millimeters (Downs and Shepard). Total egg deposition is assumed to be distributed between 3 redds for every 2 spawning females (Scott and Crossman 1973).

**** Geometric mean diameter (D_g) was calculated by a method of moments using the formula of Lotspeich and Everest (1981):

$$D_g = D_a^{P_a} \times \dots \times D_i^{P_i}, \text{ where } D_a = \text{the geometric mean (mm); } D_i = \text{the mean diameter (mm) of material retained on sieve } i;$$

P_i = the proportion by weight of the entire sample made up of material retained on sieve i.

***** The freidle index (F_i) was calculated using the formula: F_i = D_g/S_o, where S_o = a sorting coefficient

Spawning Gravel Survey, 1998 - Results and Analysis

Date Collected:
 Initials:

Location :
 Reach: Site Number:

| Spawning Gravel Analysis | | | | | |
|-----------------------------------|--|--|-----------------------------------|------------------------|-----------------------------------|
| % Usable Spawning Area = | | <input type="text" value="4.2"/> | | | |
| Est. % Survival to Emergence: | | <input type="text" value="43.7"/> | | | |
| Redd Potential (#): | <input type="text" value="55"/> | Production Index: | <input type="text" value="3263"/> | #fry/100m ² | <input type="text" value="1689"/> |
| Bankfull Area (ft ²): | <input type="text" value="2080.0"/> | Gravel Quantity (ft ²): | <input type="text" value="88.0"/> | | |
| Bankfull Width | | | | | |
| 1 | <input type="text" value="14.0"/> | 2 | <input type="text" value="10.0"/> | 3 | <input type="text" value="10.0"/> |
| 4 | <input type="text" value="8.0"/> | 5 | <input type="text" value="6.0"/> | 6 | <input type="text" value="11.0"/> |
| 7 | <input type="text" value="13.0"/> | 8 | <input type="text" value="14.0"/> | 9 | <input type="text" value="10.0"/> |
| 10 | <input type="text" value="8.0"/> | Avg. Width (ft.) = <input type="text" value="10.4"/> | | | |
| McNeil Core Sample | | | | | |
| Date Processed: | <input type="text" value="12-Nov-98"/> | Total Dry Weight (g): | <input type="text" value="3468"/> | %Total | %Cumm. |
| Particle | Diameter (mm) | Weight (grams) | | | |
| Vry Fine Sand | <input type="text" value="0.125"/> | <input type="text" value="11"/> | <input type="text" value="0"/> | 0 | |
| Fine Sand | <input type="text" value="0.250"/> | <input type="text" value="19.5"/> | <input type="text" value="1"/> | 1 | |
| Medium Sand | <input type="text" value="0.500"/> | <input type="text" value="32"/> | <input type="text" value="1"/> | 2 | |
| Coarse Sand | <input type="text" value="0.850"/> | <input type="text" value="12"/> | <input type="text" value="0"/> | 2 | |
| Vry Coarse Sand | <input type="text" value="1.0"/> | <input type="text" value="94"/> | <input type="text" value="3"/> | 5 | |
| Vry Fine Gravel | <input type="text" value="2.0"/> | <input type="text" value="246.5"/> | <input type="text" value="7"/> | 12 | |
| Fine Gravel | <input type="text" value="4.75"/> | <input type="text" value="147"/> | <input type="text" value="4"/> | 16 | |
| Fine Gravel | <input type="text" value="6.3"/> | <input type="text" value="147.5"/> | <input type="text" value="4"/> | 20 | |
| Medium Gravel | <input type="text" value="8.0"/> | <input type="text" value="645.5"/> | <input type="text" value="19"/> | 39 | |
| Coarse Gravel | <input type="text" value="16.0"/> | <input type="text" value="1019.5"/> | <input type="text" value="29"/> | 69 | |
| Vry Coarse Gravel | <input type="text" value="31.5"/> | <input type="text" value="1086.5"/> | <input type="text" value="31"/> | 100 | |
| Small Cobble | <input type="text" value="63.5"/> | <input type="text" value="0"/> | <input type="text" value="0"/> | 100 | |
| Total Weight (g) | | 3461 | 100 | | |
| D_g = | <input type="text" value="11.7"/> | % < 6.3mm | <input type="text" value="16"/> | | |
| F_i = | <input type="text" value="7.3"/> | % < 0.88mm | <input type="text" value="2"/> | | |
| Wolman Pebble Count | | | | | |
| Size Range (mm) | Item Count | %Total | %Cumm. | | |
| 0-2 | <input type="text" value="1"/> | <input type="text" value="1"/> | 1 | 1 | |
| 2-4 | <input type="text" value="10"/> | <input type="text" value="10"/> | 10 | 11 | |
| 4-8 | <input type="text" value="15"/> | <input type="text" value="15"/> | 15 | 26 | |
| 8-16 | <input type="text" value="25"/> | <input type="text" value="25"/> | 25 | 50 | |
| 16-32 | <input type="text" value="20"/> | <input type="text" value="20"/> | 20 | 70 | |
| 32-64 | <input type="text" value="20"/> | <input type="text" value="20"/> | 20 | 90 | |
| 64-128 | <input type="text" value="10"/> | <input type="text" value="10"/> | 10 | 100 | |
| 128-256 | | <input type="text" value="0"/> | 0 | 100 | |
| 256-512 | | <input type="text" value="0"/> | 0 | 100 | |
| 512-1024 | | <input type="text" value="0"/> | 0 | 100 | |
| 1024-2048 | | <input type="text" value="0"/> | 0 | 100 | |
| 2048-4096 | | <input type="text" value="0"/> | 0 | 100 | |
| Total | <input type="text" value="101"/> | | | | |
| 30 Count Results | | | | | |
| 1 | <input type="text" value="50"/> | 11 | <input type="text" value="97"/> | 21 | <input type="text" value="41"/> |
| 2 | <input type="text" value="74"/> | 12 | <input type="text" value="120"/> | 22 | <input type="text" value="32"/> |
| 3 | <input type="text" value="91"/> | 13 | <input type="text" value="40"/> | 23 | <input type="text" value="44"/> |
| 4 | <input type="text" value="38"/> | 14 | <input type="text" value="72"/> | 24 | <input type="text" value="77"/> |
| 5 | <input type="text" value="69"/> | 15 | <input type="text" value="40"/> | 25 | <input type="text" value="62"/> |
| 6 | <input type="text" value="78"/> | 16 | <input type="text" value="62"/> | 26 | <input type="text" value="90"/> |
| 7 | <input type="text" value="44"/> | 17 | <input type="text" value="59"/> | 27 | <input type="text" value="71"/> |
| 8 | <input type="text" value="50"/> | 18 | <input type="text" value="81"/> | 28 | <input type="text" value="63"/> |
| 9 | <input type="text" value="50"/> | 19 | <input type="text" value="70"/> | 29 | <input type="text" value="47"/> |
| 10 | <input type="text" value="110"/> | 20 | <input type="text" value="40"/> | 30 | <input type="text" value="55"/> |

* Estimated % survival to emergence was calculated using the equation published by Weaver and Fraley, 1993.

** Redd potential was determined by dividing area of suitable spawning gravel by average redd size (Thurow and King, 1994)

*** Production Index is an estimate of fry production calculated by multiplying redd potential by the estimated % survival to emergence and the calculated egg deposition (E) for the average sized female (310mm), using a lengthfecundity relation for westslope cutthroat trout ($E=82.63e^{0.007958L}$), where L is fork length in millimeters (Downs and Shepard). Total egg deposition is assumed to be distributed between

3 redds for every 2 spawning females (Scott and Crossman 1973).

**** Geometric mean diameter (D_g) was calculated by a method of moments using the formula of Lotspeich and Everest (1981):

$D_g = D_a^{P_a} \times \dots \times D_i^{P_i}$; where D_a = the meometric mean (mm); D_i = the mean diameter (mm) of material retained on sieve i ;

P_i = the proportion by weight of the entire sample made up of material retained on sieve i .

***** The freidle index (F_i) was calculated using the formula: $F_i = D_g/S_o$; where S_o = a sorting coefficient

Spawning Gravel Survey, 1998 - Results and Analysis

Date Collected: Initials:

Location: Reach: Site Number:

Spawning Gravel Analysis

% Usable Spawning Area =
 Est. % Survival to Emergence:
 Redd Potential (#): Production Index: #fry/100m²:

Bankfull Area (ft²): Gravel Quantity (ft²):

| | |
|--------------------|----------------|
| | Bankfull Width |
| 1 | 6.0 |
| 2 | 8.0 |
| 3 | 5.0 |
| 4 | 5.0 |
| 5 | 10.0 |
| 6 | 8.0 |
| 7 | 9.0 |
| 8 | 12.0 |
| 9 | 10.0 |
| 10 | 8.0 |
| Avg. Width (ft.) = | 8.1 |

McNeil Core Sample

| Particle | Diameter (mm) | Total Dry Weight (g): Weight (grams) | 1798 | |
|-------------------|---------------|---|--------|--------|
| | | | %Total | %Cumm. |
| Vry Fine Sand | 0.125 | 3.5 | 0 | 0 |
| Fine Sand | 0.250 | 3 | 0 | 0 |
| Medium Sand | 0.500 | 6 | 0 | 1 |
| Coarse Sand | 0.850 | 4.5 | 0 | 1 |
| Vry Coarse Sand | 1.0 | 42 | 2 | 3 |
| Vry Fine Gravel | 2.0 | 142 | 8 | 11 |
| Fine Gravel | 4.75 | 70.5 | 4 | 15 |
| Fine Gravel | 6.3 | 75.5 | 4 | 19 |
| Medium Gravel | 8.0 | 330 | 18 | 38 |
| Coarse Gravel | 16.0 | 787 | 44 | 82 |
| Vry Coarse Gravel | 31.5 | 329 | 18 | 100 |
| Small Cobble | 63.5 | 0 | 0 | 100 |
| Total Weight (g) | | 1793 | 100 | |

$D_g = \boxed{11.2}$ % < 6.3mm =

$F_i = \boxed{7.0}$ % < 0.88mm =

Wolman Pebble Count

| Size Range (mm) | Item Count | %Total | %Cumm. |
|-----------------|------------|--------|--------|
| 0-2 | 10 | 10 | 10 |
| 2-4 | 10 | 10 | 20 |
| 4-8 | 25 | 25 | 45 |
| 8-16 | 20 | 20 | 65 |
| 16-32 | 25 | 25 | 90 |
| 32-64 | 10 | 10 | 100 |
| 64-128 | 0 | 0 | 100 |
| 128-256 | 0 | 0 | 100 |
| 256-512 | 0 | 0 | 100 |
| 512-1024 | 0 | 0 | 100 |
| 1024-2048 | 0 | 0 | 100 |
| 2048-4096 | 0 | 0 | 100 |
| Total | 100 | | |

Total

30 Count Results

| | | | | | |
|----|-----|----|-----|----|----|
| 1 | 72 | 11 | 31 | 21 | 52 |
| 2 | 50 | 12 | 40 | 22 | 51 |
| 3 | 99 | 13 | 78 | 23 | 60 |
| 4 | 84 | 14 | 49 | 24 | 68 |
| 5 | 29 | 15 | 59 | 25 | 77 |
| 6 | 30 | 16 | 77 | 26 | 30 |
| 7 | 47 | 17 | 110 | 27 | 48 |
| 8 | 88 | 18 | 86 | 28 | 70 |
| 9 | 100 | 19 | 40 | 29 | 30 |
| 10 | 66 | 20 | 44 | 30 | 49 |

* Estimated % survival to emergence was calculated using the equation published by Weaver and Fraley, 1993.

** Redd potential was determined by dividing area of suitable spawning gravel by average redd size (Thurow and King, 1994)

*** Production Index is an estimate of fry production calculated by multiplying redd potential by the estimated % survival to emergence and

the calculated egg deposition (E) for the average sized female (310mm), using a lengthfecundity relation for westslope cutthroat trout
 $(E=82.63e^{0.007958L})$, where L is fork length in millimeters (Downs and Shepard). Total egg deposition is assumed to be distributed between

3 redds for every 2 spawning females (Scott and Crossman 1973).

**** Geometric mean diameter (D_g) was calculated by a method of moments using the formula of Lotspeich and Everest (1981):

$D_g = D_a^{P_a} \times \dots \times D_i^{P_i}$; where D_g = the meometric mean (mm); D_i = the mean diameter (mm) of material retained on sieve i ;

P_i = the proportion by weight of the entire sample made up of material retained on sieve i .

***** The fredle index (F_i) was calculated using the formula: $F_i = D_g/S_o$; where S_o = a sorting coefficient

Spawning Gravel Survey, 1998 - Results and Analysis

Date Collected: Initials:

Location: Reach: Site Number:

Spawning Gravel Analysis

| | | | | | |
|-----------------------------------|-------------------------------------|-------------------------------------|-----------------------------------|------------------------|----------------------------------|
| % Usable Spawning Area = | <input type="text" value="1.4"/> | | | | |
| Est. % Survival to Emergence: | <input type="text" value="40.9"/> | | | | |
| Redd Potential (#): | <input type="text" value="19"/> | Production Index: | <input type="text" value="1056"/> | #fry/100m ² | <input type="text" value="512"/> |
| Bankfull Area (ft ²): | <input type="text" value="2220.0"/> | Gravel Quantity (ft ³): | <input type="text" value="30.4"/> | | |
| Bankfull Width | | | | | |
| 1 | 14.0 | | | | |
| 2 | 12.0 | | | | |
| 3 | 10.0 | | | | |
| 4 | 10.0 | | | | |
| 5 | 12.0 | | | | |
| 6 | 14.0 | | | | |
| 7 | 13.0 | | | | |
| 8 | 9.0 | | | | |
| 9 | 10.0 | | | | |
| 10 | 7.0 | | | | |
| Avg. Width (ft.) = | <input type="text" value="11.1"/> | | | | |

McNeil Core Sample

| Date Processed: | 13-Nov-98 | Total Dry Weight (g): | 1573 | %Total | %Cumm. |
|-------------------------|---------------|-----------------------|------------|--------|--------|
| Particle | Diameter (mm) | Weight (grams) | | | |
| Vry Fine Sand | 0.125 | 2.5 | 0 | 0 | 0 |
| Fine Sand | 0.250 | 3 | 0 | 0 | 0 |
| Medium Sand | 0.500 | 5 | 0 | 1 | 1 |
| Coarse Sand | 0.850 | 3 | 0 | 1 | 1 |
| Vry Coarse Sand | 1.0 | 35 | 2 | 3 | 3 |
| Vry Fine Gravel | 2.0 | 153.5 | 10 | 13 | 13 |
| Fine Gravel | 4.75 | 89.5 | 6 | 19 | 19 |
| Fine Gravel | 6.3 | 79 | 5 | 24 | 24 |
| Medium Gravel | 8.0 | 294.5 | 19 | 43 | 43 |
| Coarse Gravel | 16.0 | 368.5 | 24 | 66 | 66 |
| Vry Coarse Gravel | 31.5 | 527.5 | 34 | 100 | 100 |
| Small Cobble | 63.5 | 0 | 0 | 100 | 100 |
| Total Weight (g) | | 1561 | 100 | | |

$D_g =$ % < 6.3mm

$F_i =$ % < 0.88mm

Wolman Pebble Count

| Size Range (mm) | Item Count | %Total | %Cumm. |
|-----------------|------------|--------|--------|
| 0-2 | 18 | 18 | 18 |
| 2-4 | 20 | 20 | 38 |
| 4-8 | 20 | 20 | 58 |
| 8-16 | 20 | 20 | 78 |
| 16-32 | 15 | 15 | 93 |
| 32-64 | 7 | 7 | 100 |
| 64-128 | 0 | 0 | 100 |
| 128-256 | 0 | 0 | 100 |
| 256-512 | 0 | 0 | 100 |
| 512-1024 | 0 | 0 | 100 |
| 1024-2048 | 0 | 0 | 100 |
| 2048-4096 | 0 | 0 | 100 |
| Total | 100 | | |

30 Count Results

| | | | | | |
|----|-----|----|----|----|----|
| 1 | 46 | 11 | 65 | 21 | 74 |
| 2 | 72 | 12 | 60 | 22 | 62 |
| 3 | 101 | 13 | 51 | 23 | 90 |
| 4 | 80 | 14 | 50 | 24 | 81 |
| 5 | 67 | 15 | 70 | 25 | 64 |
| 6 | 60 | 16 | 94 | 26 | 48 |
| 7 | 49 | 17 | 38 | 27 | 41 |
| 8 | 58 | 18 | 40 | 28 | 52 |
| 9 | 34 | 19 | 29 | 29 | 57 |
| 10 | 38 | 20 | 70 | 30 | 30 |

* Estimated % survival to emergence was calculated using the equation published by Weaver and Fraley, 1993.

** Redd potential was determined by dividing area of suitable spawning gravel by average redd size (Thurrow and King, 1994)

*** Production Index is an estimate of fry production calculated by multiplying redd potential by the estimated % survival to emergence and

the calculated egg deposition (E) for the average sized female (310mm), using a length-fecundity relation for westslope cutthroat trout ($E=82.6e^{0.007958L}$), where L is fork length in millimeters (Downs and Shepard). Total egg deposition is assumed to be distributed between

3 redds for every 2 spawning females (Scott and Crossman 1973).

**** Geometric mean diameter (D_g) was calculated by a method of moments using the formula of Lotspeich and Everest (1981):

$D_g = D_a^{P_a} \times \dots \times D_i^{P_i}$; where D_g = the geometric mean (mm); D_i = the mean diameter (mm) of material retained on sieve i ;

P_i = the proportion by weight of the entire sample made up of material retained on sieve i .

***** The fredie index (F_i) was calculated using the formula: $F_i = D_g/S_0$; where S_0 = a sorting coefficient

Spawning Gravel Survey, 1998 - Results and Analysis

Date Collected:
 Initials:

Location :
 Reach: Site Number:

Spawning Gravel Analysis

% Usable Spawning Area =
 Est. % Survival to Emergence:
 Redd Potential (#): Production Index: #fry/100m²
 Bankfull Area (ft²): Gravel Quantity (ft²):

Bankfull Width
 1 5.0
 2 6.0
 3 8.0
 4 7.0
 5 4.0
 6 14.0
 7 10.0
 8 12.0
 9 4.0
 10 5.0
 Avg. Width (ft.) =

McNeil Core Sample

| Date Processed: | 13-Nov-98 | Total Dry Weight (g): | <u>2200</u> | %Total | %Cumm. |
|-------------------------|---------------|-----------------------|-------------|--------|--------|
| Particle | Diameter (mm) | Weight (grams) | | | |
| Vry Fine Sand | 0.125 | 1 | 0 | 0 | 0 |
| Fine Sand | 0.250 | 1 | 0 | 0 | 0 |
| Medium Sand | 0.500 | 1 | 0 | 0 | 0 |
| Coarse Sand | 0.850 | 1 | 0 | 0 | 0 |
| Vry Coarse Sand | 1.0 | 4 | 0 | 0 | 0 |
| Vry Fine Gravel | 2.0 | 29 | 1 | 2 | |
| Fine Gravel | 4.75 | 28.5 | 1 | 3 | |
| Fine Gravel | 6.3 | 42 | 2 | 5 | |
| Medium Gravel | 8.0 | 259 | 12 | 17 | |
| Coarse Gravel | 16.0 | 602.5 | 27 | 44 | |
| Vry Coarse Gravel | 31.5 | 909 | 41 | 86 | |
| Small Cobble | 63.5 | 318 | 14 | 100 | |
| Total Weight (g) | | 2196 | 100 | | |

D_g = % < 6.3mm

F_i = % < 0.88mm

Wolman Pebble Count

| Size Range (mm) | Item Count | %Total | %Cumm. |
|-----------------|------------|--------|--------|
| 0-2 | 10 | 10 | 10 |
| 2-4 | 10 | 10 | 20 |
| 4-8 | 15 | 15 | 35 |
| 8-16 | 15 | 15 | 50 |
| 16-32 | 18 | 18 | 68 |
| 32-64 | 15 | 15 | 83 |
| 64-128 | 15 | 15 | 98 |
| 128-256 | 2 | 2 | 100 |
| 256-512 | 0 | 0 | 100 |
| 512-1024 | 0 | 0 | 100 |
| 1024-2048 | 0 | 0 | 100 |
| 2048-4096 | 0 | 0 | 100 |
| Total | 100 | | |

30 Count Results

| | | | | | |
|----|-----|----|-----|----|-----|
| 1 | 61 | 11 | 50 | 21 | 20 |
| 2 | 90 | 12 | 39 | 22 | 65 |
| 3 | 71 | 13 | 41 | 23 | 81 |
| 4 | 55 | 14 | 59 | 24 | 110 |
| 5 | 62 | 15 | 72 | 25 | 52 |
| 6 | 80 | 16 | 93 | 26 | 66 |
| 7 | 49 | 17 | 102 | 27 | 49 |
| 8 | 71 | 18 | 40 | 28 | 81 |
| 9 | 100 | 19 | 35 | 29 | 54 |
| 10 | 120 | 20 | 29 | 30 | 30 |

* Estimated % survival to emergence was calculated using the equation published by Weaver and Fraley, 1993.

** Redd potential was determined by dividing area of suitable spawning gravel by average redd size (Thurow and King, 1994)

*** Production Index is an estimate of fry production calculated by multiplying redd potential by the estimated % survival to emergence and the calculated egg deposition (E) for the average sized female (310mm), using a length-fecundity relation for westslope cutthroat trout ($E=82.63e^{0.007958L}$), where L is fork length in millimeters (Downs and Shepard). Total egg deposition is assumed to be distributed between 3 redds for every 2 spawning females (Scott and Crossman 1973).

**** Geometric mean diameter (D_g) was calculated by a method of moments using the formula of Lotspeich and Everest (1981):

$D_g = D_a^{P_a} \times \dots \times D_i^{P_i}$; where D_g = the meometric mean (mm); D_i = the mean diameter (mm) of material retained on sieve i ;

P_i = the proportion by weight of the entire sample made up of material retained on sieve i .

***** The fredele index (F_i) was calculated using the formula: $F_i = D_g/S_o$; where S_o = a sorting coefficient

Spawning Gravel Survey, 1998 - Results and Analysis

Date Collected:
 Initials:

Location :
 Reach: Site Number:

Spawning Gravel Analysis

% Usable Spawning Area =

Est. % Survival to Emergence:

Redd Potential (#): Production Index: #fry/100m²

Bankfull Area (ft²): Gravel Quantity (ft²):

Bankfull Width

| | |
|----|-----|
| 1 | 2.0 |
| 2 | 3.0 |
| 3 | 3.0 |
| 4 | 2.0 |
| 5 | 4.0 |
| 6 | 3.0 |
| 7 | 5.0 |
| 8 | 4.0 |
| 9 | 3.0 |
| 10 | 2.0 |

Avg. Width (ft.) =

McNeil Core Sample

| Date Processed: | 09-Nov-98 | Total Dry Weight (g): | <u>2323.5</u> | |
|-------------------------|---------------|-----------------------|---------------|--------|
| Particle | Diameter (mm) | Weight (grams) | %Total | %Cumm. |
| Vry Fine Sand | 0.125 | 23.5 | 1 | 1 |
| Fine Sand | 0.250 | 112 | 5 | 6 |
| Medium Sand | 0.500 | 350 | 15 | 21 |
| Coarse Sand | 0.850 | 36 | 2 | 22 |
| Vry Coarse Sand | 1.0 | 273 | 12 | 34 |
| Vry Fine Gravel | 2.0 | 658 | 28 | 63 |
| Fine Gravel | 4.75 | 326 | 14 | 77 |
| Fine Gravel | 6.3 | 285 | 12 | 89 |
| Medium Gravel | 8.0 | 259.5 | 11 | 100 |
| Coarse Gravel | 16.0 | 0 | 0 | 100 |
| Vry Coarse Gravel | 31.5 | 0 | 0 | 100 |
| Small Cobble | 63.5 | 0 | 0 | 100 |
| Total Weight (g) | | 2323 | 100 | |

$D_g = \boxed{2.0}$ % < 6.3mm

$F_i = \boxed{0.8}$ % < 0.88mm

Wolman Pebble Count

| Size Range (mm) | Item Count | %Total | %Cumm. |
|-----------------|------------|--------|--------|
| 0-2 | 3 | 3 | 3 |
| 2-4 | 12 | 12 | 15 |
| 4-8 | 18 | 18 | 33 |
| 8-16 | 20 | 20 | 53 |
| 16-32 | 17 | 17 | 70 |
| 32-64 | 30 | 30 | 100 |
| 64-128 | 0 | 0 | 100 |
| 128-256 | 0 | 0 | 100 |
| 256-512 | 0 | 0 | 100 |
| 512-1024 | 0 | 0 | 100 |
| 1024-2048 | 0 | 0 | 100 |
| 2048-4096 | 0 | 0 | 100 |

Total

30 Count Results

| | | | | | |
|----|----|----|----|----|----|
| 1 | 36 | 11 | 16 | 21 | 32 |
| 2 | 32 | 12 | 34 | 22 | 41 |
| 3 | 40 | 13 | 36 | 23 | 16 |
| 4 | 45 | 14 | 31 | 24 | 34 |
| 5 | 31 | 15 | 41 | 25 | 33 |
| 6 | 10 | 16 | 30 | 26 | 24 |
| 7 | 16 | 17 | 56 | 27 | 31 |
| 8 | 18 | 18 | 32 | 28 | 24 |
| 9 | 16 | 19 | 41 | 29 | 36 |
| 10 | 32 | 20 | 48 | 30 | 42 |

* Estimated % survival to emergence was calculated using the equation published by Weaver and Fraley, 1993.

** Redd potential was determined by dividing area of suitable spawning gravel by average redd size (Thrurow and King, 1994)

*** Production Index is an estimate of fry production calculated by multiplying redd potential by the estimated % survival to emergence and the calculated egg deposition (E) for the average sized female (310mm), using a length-fecundity relation for westslope cutthroat trout ($E=82.63e^{0.007958L}$), where L is fork length in millimeters (Downs and Shepard). Total egg deposition is assumed to be distributed between 3 redds for every 2 spawning females (Scott and Crossman 1973).

**** Geometric mean diameter (D_g) was calculated by a method of moments using the formula of Lotspeich and Everest (1981):

$D_g = D_a^{P_d} \times \dots \times D_i^{P_i}$; where D_g = the meometric mean (mm); D_i = the mean diameter (mm) of material retained on sieve i ;

P_i = the proportion by weight of the entire sample made up of material retained on sieve i .

***** The fredie index (F_i) was calculated using the formula: $F_i = D_g/S_o$; where S_o = a sorting coefficient

Spawning Gravel Survey, 1998 - Results and Analysis

| | | | | | |
|-----------------|----------|------------|------|--------------|---|
| Date Collected: | 09/04/98 | Location : | LAKE | | |
| Initials: | JL RA | Reach: | 8 | Site Number: | 3 |

Spawning Gravel Analysis

| | | | | | |
|-----------------------------------|--------|-------------------------------------|------|------------------------|---|
| % Usable Spawning Area = | 1.2 | | | | |
| Est. % Survival to Emergence: | 0.0 | | | | |
| Redd Potential (#): | 12 | Production Index: | 0 | #fry/100m ² | 0 |
| Bankfull Area (ft ²): | 1640.0 | Gravel Quantity (ft ²): | 19.2 | | |
| Bankfull Width | | | | | |
| 1 | 8.0 | | | | |
| 2 | 12.0 | | | | |
| 3 | 6.0 | | | | |
| 4 | 7.0 | | | | |
| 5 | 5.0 | | | | |
| 6 | 8.0 | | | | |
| 7 | 10.0 | | | | |
| 8 | 9.0 | | | | |
| 9 | 5.0 | | | | |
| 10 | 12.0 | | | | |
| Avg. Width (ft.) = | 8.2 | | | | |

McNeil Core Sample

| Date Processed: | 10-Nov-98 | Total Dry Weight (g): | 938.5 | | |
|-------------------------|---------------|-----------------------|------------|--------|--|
| Particle | Diameter (mm) | Weight (grams) | %Total | %Cumm. | |
| Vry Fine Sand | 0.125 | 14.5 | 2 | 2 | |
| Fine Sand | 0.250 | 62 | 7 | 8 | |
| Medium Sand | 0.500 | 91 | 10 | 18 | |
| Coarse Sand | 0.850 | 21.5 | 2 | 20 | |
| Vry Coarse Sand | 1.0 | 172.5 | 18 | 39 | |
| Vry Fine Gravel | 2.0 | 472 | 50 | 89 | |
| Fine Gravel | 4.75 | 69.5 | 7 | 96 | |
| Fine Gravel | 6.3 | 25.5 | 3 | 99 | |
| Medium Gravel | 8.0 | 10 | 1 | 100 | |
| Coarse Gravel | 16.0 | 0 | 0 | 100 | |
| Vry Coarse Gravel | 31.5 | 0 | 0 | 100 | |
| Small Cobble | 63.5 | 0 | 0 | 100 | |
| Total Weight (g) | | 938.5 | 100 | | |

$D_g =$ % < 6.3mm

$F_i =$ % < 0.88mm

Wolman Pebble Count

| Size Range (mm) | Item Count | %Total | %Cumm. |
|-----------------|------------|--------|--------|
| 0-2 | 8 | 8 | 8 |
| 2-4 | 21 | 21 | 29 |
| 4-8 | 31 | 31 | 60 |
| 8-16 | 30 | 30 | 90 |
| 16-32 | 10 | 10 | 100 |
| 32-64 | 0 | 0 | 100 |
| 64-128 | 0 | 0 | 100 |
| 128-256 | 0 | 0 | 100 |
| 256-512 | 0 | 0 | 100 |
| 512-1024 | 0 | 0 | 100 |
| 1024-2048 | 0 | 0 | 100 |
| 2048-4096 | 0 | 0 | 100 |
| Total | 100 | | |

30 Count Results

| | | | | | |
|----|----|----|----|----|----|
| 1 | 3 | 11 | 14 | 21 | 8 |
| 2 | 4 | 12 | 8 | 22 | 6 |
| 3 | 7 | 13 | 10 | 23 | 13 |
| 4 | 12 | 14 | 24 | 24 | 20 |
| 5 | 4 | 15 | 25 | 25 | 27 |
| 6 | 16 | 16 | 17 | 26 | 31 |
| 7 | 24 | 17 | 11 | 27 | 20 |
| 8 | 32 | 18 | 9 | 28 | 14 |
| 9 | 18 | 19 | 5 | 29 | 5 |
| 10 | 12 | 20 | 3 | 30 | 4 |

* Estimated % survival to emergence was calculated using the equation published by Weaver and Fraley, 1993.

** Redd potential was determined by dividing area of suitable spawning gravel by average redd size (Thurrow and King, 1994)

*** Production Index is an estimate of fry production calculated by multiplying redd potential by the estimated % survival to emergence and the calculated egg deposition (E) for the average sized female (310mm), using a length-fecundity relation for westslope cutthroat trout ($E=82.63e^{0.007959L}$), where L is fork length in millimeters (Downs and Shepard). Total egg deposition is assumed to be distributed between 3 redds for every 2 spawning females (Scott and Crossman 1973).

**** Geometric mean diameter (D_g) was calculated by a method of moments using the formula of Lotspeich and Everest (1981):

$D_g = D_a^{P_a} \times \dots \times D_i^{P_i}$; where D_g = the geometric mean (mm); D_i = the mean diameter (mm) of material retained on sieve i ;

P_i = the proportion by weight of the entire sample made up of material retained on sieve i .

***** The freidle index (F_i) was calculated using the formula: $F_i = D_g/S_0$; where S_0 = a sorting coefficient

Spawning Gravel Survey, 1998 - Results and Analysis

Date Collected:

Location :

Initials:

Reach: Site Number:

Spawning Gravel Analysis

% Usable Spawning Area =

Est. % Survival to Emergence:

Redd Potential (#): Production Index: #fry/100m²

Bankfull Area (ft²): Gravel Quantity (ft²):

| | Bankfull Width |
|--------------------|----------------|
| 1 | 12.0 |
| 2 | 7.0 |
| 3 | 3.0 |
| 4 | 8.0 |
| 5 | 8.0 |
| 6 | 5.0 |
| 7 | 6.0 |
| 8 | 8.0 |
| 9 | 7.0 |
| 10 | <u>3.0</u> |
| Avg. Width (ft.) = | 6.7 |

McNeil Core Sample

| Date Processed: | 09-Nov-98 | Total Dry Weight (g): | 2654 | | |
|-------------------------|---------------|-----------------------|------------|--------|--|
| Particle | Diameter (mm) | Weight (grams) | %Total | %Cumm. | |
| Vry Fine Sand | 0.125 | 8.5 | 0 | 0 | |
| Fine Sand | 0.250 | 42 | 2 | 2 | |
| Medium Sand | 0.500 | 118.5 | 4 | 6 | |
| Coarse Sand | 0.850 | 36 | 1 | 8 | |
| Vry Coarse Sand | 1.0 | 155.5 | 6 | 13 | |
| Vry Fine Gravel | 2.0 | 224.5 | 8 | 22 | |
| Fine Gravel | 4.75 | 104 | 4 | 26 | |
| Fine Gravel | 6.3 | 121.5 | 5 | 30 | |
| Medium Gravel | 8.0 | 494.5 | 19 | 49 | |
| Coarse Gravel | 16.0 | 1088.5 | 41 | 90 | |
| Vry Coarse Gravel | 31.5 | 278.5 | 10 | 100 | |
| Small Cobble | 63.5 | 0 | 0 | 100 | |
| Total Weight (g) | | 2672 | 100 | | |

$D_g =$ % < 6.3mm

$F_i =$ % < 0.88mm

Wolman Pebble Count

| Size Range (mm) | Item Count | %Total | %Cumm. |
|-----------------|------------|--------|--------|
| 0-2 | 12 | 12 | 12 |
| 2-4 | 15 | 15 | 27 |
| 4-8 | 16 | 16 | 43 |
| 8-16 | 22 | 22 | 65 |
| 16-32 | 30 | 30 | 95 |
| 32-64 | 5 | 5 | 100 |
| 64-128 | 0 | 0 | 100 |
| 128-256 | 0 | 0 | 100 |
| 256-512 | 0 | 0 | 100 |
| 512-1024 | 0 | 0 | 100 |
| 1024-2048 | 0 | 0 | 100 |
| 2048-4096 | 0 | 0 | 100 |
| Total | 100 | | |

30 Count Results

| | | | | | |
|----|----|----|----|----|----|
| 1 | 56 | 11 | 34 | 21 | 7 |
| 2 | 61 | 12 | 39 | 22 | 8 |
| 3 | 45 | 13 | 46 | 23 | 25 |
| 4 | 44 | 14 | 48 | 24 | 28 |
| 5 | 12 | 15 | 49 | 25 | 46 |
| 6 | 14 | 16 | 66 | 26 | 66 |
| 7 | 67 | 17 | 91 | 27 | 72 |
| 8 | 58 | 18 | 18 | 28 | 59 |
| 9 | 26 | 19 | 10 | 29 | 60 |
| 10 | 28 | 20 | 8 | 30 | 41 |

* Estimated % survival to emergence was calculated using the equation published by Weaver and Fraley, 1993.

** Redd potential was determined by dividing area of suitable spawning gravel by average redd size (Thurow and King, 1994)

*** Production Index is an estimate of fry production calculated by multiplying redd potential by the estimated % survival to emergence and the calculated egg deposition (E) for the average sized female (310mm), using a length-fecundity relation for westslope cutthroat trout ($E=82.63e^{0.007958L}$), where L is fork length in millimeters (Downs and Shepard). Total egg deposition is assumed to be distributed between 3 redds for every 2 spawning females (Scott and Crossman 1973).

**** Geometric mean diameter (D_g) was calculated by a method of moments using the formula of Lotspeich and Everest (1981):

$D_g = D_a^{P_a} \times \dots \times D_i^{P_i}$, where D_g = the meometric mean (mm); D_i = the mean diameter (mm) of material retained on sieve i ;

P_i = the proportion by weight of the entire sample made up of material retained on sieve i .

***** The fredle index (F_i) was calculated using the formula: $F_i = D_g/S_o$; where S_o = a sorting coefficient

Spawning Gravel Survey, 1998 - Results and Analysis

Date Collected:
 Initials:

Location :
 Reach: Site Number:

Spawning Gravel Analysis

% Usable Spawning Area =
 Est. % Survival to Emergence:
 Redd Potential (#): Production Index: #fry/100m²

Bankfull Area (ft²): Gravel Quantity (ft²):

| | |
|--------------------|----------------|
| | Bankfull Width |
| 1 | 13.0 |
| 2 | 9.0 |
| 3 | 8.0 |
| 4 | 15.0 |
| 5 | 6.0 |
| 6 | 5.0 |
| 7 | 6.0 |
| 8 | 5.0 |
| 9 | 7.0 |
| 10 | 5.0 |
| Avg. Width (ft.) = | 8 |

McNeil Core Sample

| Date Processed: | 09-Nov-98 | Total Dry Weight (g): | <u>2900.5</u> | |
|-------------------------|---------------|-----------------------|---------------|--------|
| Particle | Diameter (mm) | Weight (grams) | %Total | %Cumm. |
| Vry Fine Sand | 0.125 | 15 | 1 | 1 |
| Fine Sand | 0.250 | 39.5 | 1 | 2 |
| Medium Sand | 0.500 | 77 | 3 | 5 |
| Coarse Sand | 0.850 | 19.5 | 1 | 5 |
| Vry Coarse Sand | 1.0 | 110.5 | 4 | 9 |
| Vry Fine Gravel | 2.0 | 188 | 6 | 15 |
| Fine Gravel | 4.75 | 96.5 | 3 | 19 |
| Fine Gravel | 6.3 | 102.5 | 4 | 22 |
| Medium Gravel | 8.0 | 418 | 14 | 37 |
| Coarse Gravel | 16.0 | 1000 | 34 | 71 |
| Vry Coarse Gravel | 31.5 | 847 | 29 | 100 |
| Small Cobble | 63.5 | 0 | 0 | 100 |
| Total Weight (g) | | 2913.5 | 100 | |

$D_g =$ % < 6.3mm

$F_i =$ % < 0.88mm

Wolman Pebble Count

| Size Range (mm) | Item Count | %Total | %Cumm. |
|-----------------|------------|--------|--------|
| 0-2 | 2 | 2 | 2 |
| 2-4 | 6 | 6 | 8 |
| 4-8 | 5 | 5 | 13 |
| 8-16 | 22 | 22 | 35 |
| 16-32 | 25 | 25 | 60 |
| 32-64 | 31 | 31 | 91 |
| 64-128 | 9 | 9 | 100 |
| 128-256 | 0 | 0 | 100 |
| 256-512 | 0 | 0 | 100 |
| 512-1024 | 0 | 0 | 100 |
| 1024-2048 | 0 | 0 | 100 |
| 2048-4096 | 0 | 0 | 100 |
| Total | 100 | | |

30 Count Results

| | | | | | |
|----|----|----|-----|----|----|
| 1 | 45 | 11 | 109 | 21 | 18 |
| 2 | 40 | 12 | 12 | 22 | 12 |
| 3 | 61 | 13 | 72 | 23 | 94 |
| 4 | 58 | 14 | 60 | 24 | 80 |
| 5 | 50 | 15 | 62 | 25 | 62 |
| 6 | 26 | 16 | 58 | 26 | 64 |
| 7 | 12 | 17 | 44 | 27 | 26 |
| 8 | 19 | 18 | 50 | 28 | 33 |
| 9 | 76 | 19 | 26 | 29 | 19 |
| 10 | 70 | 20 | 34 | 30 | 16 |

* Estimated % survival to emergence was calculated using the equation published by Weaver and Fraley, 1993.

** Redd potential was determined by dividing area of suitable spawning gravel by average redd size (Thurow and King, 1994)

*** Production Index is an estimate of fry production calculated by multiplying redd potential by the estimated % survival to emergence and the calculated egg deposition (E) for the average sized female (310mm), using a length-fecundity relation for westslope cutthroat trout ($E=82.63e^{0.007958L}$), where L is fork length in millimeters (Downs and Shepard). Total egg deposition is assumed to be distributed between 3 redds for every 2 spawning females (Scott and Crossman 1973).

**** Geometric mean diameter (D_g) was calculated by a method of moments using the formula of Lotspeich and Everest (1981):

$$D_g = D_a^{P_a} \times \dots \times D_i^{P_i}; \text{ where } D_a = \text{the meometric mean (mm)}; D_i = \text{the mean diameter (mm) of material retained on sieve } i;$$

P_i = the proportion by weight of the entire sample made up of material retained on sieve i.

***** The fredle index (F_i) was calculated using the formula: F_i = D_i/S_o, where S_o = a sorting coefficient

Spawning Gravel Survey, 1998 - Results and Analysis

Date Collected: Location :
 Initials: Reach: Site Number:

Spawning Gravel Analysis

% Usable Spawning Area =

Est. % Survival to Emergence:

Redd Potential (#): Production Index: #fry/100m²

Bankfull Area (ft²): Gravel Quantity (ft²):

Bankfull Width

| | |
|----|------|
| 1 | 12.0 |
| 2 | 9.0 |
| 3 | 10.0 |
| 4 | 7.0 |
| 5 | 8.0 |
| 6 | 11.0 |
| 7 | 10.0 |
| 8 | 12.0 |
| 9 | 10.0 |
| 10 | 12.0 |

Avg. Width (ft.) =

McNeil Core Sample

| Date Processed: | 02-Sep-98 | Total Dry Weight (g): | <u>2567.5</u> | |
|-------------------------|---------------|-----------------------|---------------|--------|
| Particle | Diameter (mm) | Weight (grams) | %Total | %Cumm. |
| Vry Fine Sand | 0.125 | 6 | 0 | 0 |
| Fine Sand | 0.250 | 23 | 1 | 1 |
| Medium Sand | 0.500 | 65 | 3 | 4 |
| Coarse Sand | 0.850 | 17 | 1 | 4 |
| Vry Coarse Sand | 1.0 | 90 | 4 | 8 |
| Vry Fine Gravel | 2.0 | 183 | 7 | 15 |
| Fine Gravel | 4.75 | 142 | 6 | 20 |
| Fine Gravel | 6.3 | 132 | 5 | 26 |
| Medium Gravel | 8.0 | 411 | 16 | 42 |
| Coarse Gravel | 16.0 | 1036 | 40 | 82 |
| Vry Coarse Gravel | 31.5 | 464 | 18 | 100 |
| Small Cobble | 63.5 | 0 | 0 | 100 |
| Total Weight (g) | | 2567 | 100 | |

D_g = % < 6.3mm

F_i = % < 0.88mm

Wolman Pebble Count

| Size Range (mm) | Item Count | %Total | %Cumm. |
|-----------------|------------|--------|--------|
| 0-2 | 5 | 5 | 5 |
| 2-4 | 8 | 8 | 13 |
| 4-8 | 15 | 15 | 28 |
| 8-16 | 16 | 16 | 44 |
| 16-32 | 34 | 34 | 78 |
| 32-64 | 20 | 20 | 98 |
| 64-128 | 2 | 2 | 100 |
| 128-256 | 0 | 0 | 100 |
| 256-512 | 0 | 0 | 100 |
| 512-1024 | 0 | 0 | 100 |
| 1024-2048 | 0 | 0 | 100 |
| 2048-4096 | 0 | 0 | 100 |
| Total | 100 | 100 | |

30 Count Results

| | | | | | |
|----|-----|----|----|----|-----|
| 1 | 98 | 11 | 24 | 21 | 66 |
| 2 | 64 | 12 | 12 | 22 | 61 |
| 3 | 36 | 7 | 7 | 23 | 58 |
| 4 | 45 | 8 | 8 | 24 | 79 |
| 5 | 109 | 14 | 14 | 25 | 124 |
| 6 | 70 | 18 | 18 | 26 | 110 |
| 7 | 66 | 26 | 26 | 27 | 98 |
| 8 | 75 | 31 | 31 | 28 | 65 |
| 9 | 40 | 28 | 28 | 29 | 41 |
| 10 | 45 | 70 | 70 | 30 | 36 |

* Estimated % survival to emergence was calculated using the equation published by Weaver and Fraley, 1993.

** Redd potential was determined by dividing area of suitable spawning gravel by average redd size (Thurow and King, 1994)

*** Production Index is an estimate of fry production calculated by multiplying redd potential by the estimated % survival to emergence and the calculated egg deposition (E) for the average sized female (310mm), using a length-fecundity relation for westslope cutthroat trout ($E=82.63e^{0.007588L}$), where L is fork length in millimeters (Downs and Shepard). Total egg deposition is assumed to be distributed between 3 redds for every 2 spawning females (Scott and Crossman 1973).

**** Geometric mean diameter (D_g) was calculated by a method of moments using the formula of Lotspeich and Everest (1981):

$$D_g = D_a^{P_a} \times \dots \times D_i^{P_i}; \text{ where } D_a = \text{the meometric mean (mm); } D_i = \text{the mean diameter (mm) of material retained on sieve } i;$$

P_i = the proportion by weight of the entire sample made up of material retained on sieve i .

***** The freidle index (F_i) was calculated using the formula: $F_i = D_g/S_o$; where S_o = a sorting coefficient

Spawning Gravel Survey, 1998 - Results and Analysis

Date Collected: 09/01/98
Initials: RA GA

Location : BOZARD
Reach: 1 Site Number: 3

Spawning Gravel Analysis

| | | | | | |
|-----------------------------------|--------|-------------------------------------|------|------------------------|------|
| % Usable Spawning Area = | 7.3 | | | | |
| Est. % Survival to Emergence: | 43.6 | | | | |
| Redd Potential (#): | 52 | Production Index: | 3080 | #fry/100m ² | 2908 |
| Bankfull Area (ft ²): | 1140.0 | Gravel Quantity (ft ²): | 83.2 | | |
| Bankfull Width | | | | | |
| 1 | 4.0 | | | | |
| 2 | 6.0 | | | | |
| 3 | 4.0 | | | | |
| 4 | 8.0 | | | | |
| 5 | 5.0 | | | | |
| 6 | 3.0 | | | | |
| 7 | 6.0 | | | | |
| 8 | 6.0 | | | | |
| 9 | 8.0 | | | | |
| 10 | 7.0 | | | | |
| Avg. Width (ft.) = | 5.7 | | | | |

McNeil Core Sample

| Date Processed: | 09-Nov-98 | Total Dry Weight (g): | <u>2129.5</u> <th></th> <th></th> | | |
|-------------------------|---------------|-----------------------|-----------------------------------|--------|--|
| Particle | Diameter (mm) | Weight (grams) | %Total | %Cumm. | |
| Vry Fine Sand | 0.125 | 4 | 0 | 0 | |
| Fine Sand | 0.250 | 16.5 | 1 | 1 | |
| Medium Sand | 0.500 | 34 | 2 | 3 | |
| Coarse Sand | 0.850 | 11.5 | 1 | 3 | |
| Vry Coarse Sand | 1.0 | 58 | 3 | 6 | |
| Vry Fine Gravel | 2.0 | 128.5 | 6 | 13 | |
| Fine Gravel | 4.75 | 76 | 4 | 16 | |
| Fine Gravel | 6.3 | 78.5 | 4 | 20 | |
| Medium Gravel | 8.0 | 312 | 15 | 36 | |
| Coarse Gravel | 16.0 | 789.5 | 39 | 75 | |
| Vry Coarse Gravel | 31.5 | 506.5 | 25 | 100 | |
| Small Cobble | 63.5 | 0 | 0 | 100 | |
| Total Weight (g) | | 2015 | 100 | | |

$D_g =$ 11.3 % < 6.3mm 16

$F_i =$ 7.1 % < 0.88mm 3

Wolman Pebble Count

| Size Range (mm) | Item Count | %Total | %Cumm. |
|-----------------|------------|--------|--------|
| 0-2 | 9 | 10 | 10 |
| 2-4 | 7 | 8 | 18 |
| 4-8 | 15 | 17 | 34 |
| 8-16 | 16 | 18 | 52 |
| 16-32 | 18 | 20 | 72 |
| 32-64 | 15 | 17 | 89 |
| 64-128 | 10 | 11 | 100 |
| 128-256 | 0 | 0 | 100 |
| 256-512 | 0 | 0 | 100 |
| 512-1024 | 0 | 0 | 100 |
| 1024-2048 | 0 | 0 | 100 |
| 2048-4096 | 0 | 0 | 100 |
| Total | 90 | | |

30 Count Results

| | | | | | |
|----|----|----|----|----|----|
| 1 | 40 | 11 | 66 | 21 | 28 |
| 2 | 37 | 12 | 78 | 22 | 40 |
| 3 | 29 | 13 | 85 | 23 | 62 |
| 4 | 31 | 14 | 64 | 24 | 80 |
| 5 | 49 | 15 | 51 | 25 | 65 |
| 6 | 55 | 16 | 40 | 26 | 35 |
| 7 | 52 | 17 | 42 | 27 | 41 |
| 8 | 71 | 18 | 31 | 28 | 40 |
| 9 | 79 | 19 | 20 | 29 | 24 |
| 10 | 64 | 20 | 22 | 30 | 24 |

* Estimated % survival to emergence was calculated using the equation published by Weaver and Fraley, 1993.

** Redd potential was determined by dividing area of suitable spawning gravel by average redd size (Thurrow and King, 1994)

*** Production Index is an estimate of fry production calculated by multiplying redd potential by the estimated % survival to emergence and the calculated egg deposition (E) for the average sized female (310mm), using a length-fecundity relation for westslope cutthroat trout ($E=82.63e^{0.007958L}$), where L is fork length in millimeters (Downs and Shepard). Total egg deposition is assumed to be distributed between 3 redds for every 2 spawning females (Scott and Crossman 1973).

**** Geometric mean diameter (D_g) was calculated by a method of moments using the formula of Lotspeich and Everest (1981):

$D_g = D_a^{P_a} \times \dots \times D_i^{P_i}$, where D_g = the geometric mean (mm); D_i = the mean diameter (mm) of material retained on sieve i ;

P_i = the proportion by weight of the entire sample made up of material retained on sieve i .

***** The freidle index (F_i) was calculated using the formula: $F_i = D_g/S_o$; where S_o = a sorting coefficient

Spawning Gravel Survey, 1998 - Results and Analysis

Date Collected: 09/03/98
Initials: RA JL

Location : BOZARD, East Fork
Reach: 1 Site Number: 2

| Spawning Gravel Analysis | | | | | |
|-----------------------------------|------------------|-------------------------------------|-------------------------------------|------------------------|-------------|
| % Usable Spawning Area = | | <u>6.5</u> | | | |
| Est. % Survival to Emergence: | | <u>40.0</u> | | | |
| Redd Potential (#): | <u>89</u> | Production Index: | <u>4825</u> | #fry/100m ² | <u>2361</u> |
| Bankfull Area (ft ²): | <u>2200.0</u> | Gravel Quantity (ft ²): | <u>142.0</u> | | |
| Bankfull Width | | | | | |
| 1 | <u>10.0</u> | | | | |
| 2 | <u>8.0</u> | | | | |
| 3 | <u>6.0</u> | | | | |
| 4 | <u>8.0</u> | | | | |
| 5 | <u>15.0</u> | | | | |
| 6 | <u>24.0</u> | | | | |
| 7 | <u>12.0</u> | | | | |
| 8 | <u>10.0</u> | | | | |
| 9 | <u>8.0</u> | | | | |
| 10 | <u>9.0</u> | | | | |
| Avg. Width (ft.) = | <u>11</u> | | | | |
| McNeil Core Sample | | | | | |
| Date Processed: | <u>10-Nov-98</u> | Total Dry Weight (g): | <u>2811.5</u> <td colspan="2"></td> | | |
| Particle | Diameter (mm) | Weight (grams) | %Total | %Cumm. | |
| Vry Fine Sand | 0.125 | <u>13</u> | <u>0</u> | <u>0</u> | |
| Fine Sand | 0.250 | <u>59.5</u> | <u>2</u> | <u>3</u> | |
| Medium Sand | 0.500 | <u>151.5</u> | <u>5</u> | <u>8</u> | |
| Coarse Sand | 0.850 | <u>36.5</u> | <u>1</u> | <u>9</u> | |
| Vry Coarse Sand | 1.0 | <u>122.5</u> | <u>4</u> | <u>14</u> | |
| Vry Fine Gravel | 2.0 | <u>109</u> | <u>4</u> | <u>17</u> | |
| Fine Gravel | 4.75 | <u>57</u> | <u>2</u> | <u>19</u> | |
| Fine Gravel | 6.3 | <u>62.5</u> | <u>2</u> | <u>22</u> | |
| Medium Gravel | 8.0 | <u>380.5</u> | <u>14</u> | <u>35</u> | |
| Coarse Gravel | 16.0 | <u>1253.5</u> | <u>44</u> | <u>80</u> | |
| Vry Coarse Gravel | 31.5 | <u>572</u> | <u>20</u> | <u>100</u> | |
| Small Cobble | 63.5 | <u>0</u> | <u>0</u> | <u>100</u> | |
| Total Weight (g) | | 2817.5 | 100 | | |
| D_g = | <u>9.4</u> | % < 6.3mm | <u>19</u> | | |
| F_i = | <u>5.9</u> | % < 0.88mm | <u>9</u> | | |
| Wolman Pebble Count | | | | | |
| Size Range (mm) | Item Count | %Total | %Cumm. | | |
| 0-2 | <u>1</u> | <u>1</u> | <u>1</u> | | |
| 2-4 | <u>5</u> | <u>5</u> | <u>6</u> | | |
| 4-8 | <u>11</u> | <u>11</u> | <u>17</u> | | |
| 8-16 | <u>10</u> | <u>10</u> | <u>27</u> | | |
| 16-32 | <u>30</u> | <u>30</u> | <u>57</u> | | |
| 32-64 | <u>22</u> | <u>22</u> | <u>79</u> | | |
| 64-128 | <u>21</u> | <u>21</u> | <u>100</u> | | |
| 128-256 | <u>0</u> | <u>0</u> | <u>100</u> | | |
| 256-512 | <u>0</u> | <u>0</u> | <u>100</u> | | |
| 512-1024 | <u>0</u> | <u>0</u> | <u>100</u> | | |
| 1024-2048 | <u>0</u> | <u>0</u> | <u>100</u> | | |
| 2048-4096 | <u>0</u> | <u>0</u> | <u>100</u> | | |
| Total | <u>100</u> | | | | |
| 30 Count Results | | | | | |
| 1 | <u>46</u> | 11 | <u>40</u> | 21 | <u>58</u> |
| 2 | <u>121</u> | 12 | <u>5</u> | 22 | <u>50</u> |
| 3 | <u>17</u> | 13 | <u>4</u> | 23 | <u>36</u> |
| 4 | <u>24</u> | 14 | <u>29</u> | 24 | <u>47</u> |
| 5 | <u>26</u> | 15 | <u>36</u> | 25 | <u>48</u> |
| 6 | <u>24</u> | 16 | <u>31</u> | 26 | <u>65</u> |
| 7 | <u>10</u> | 17 | <u>29</u> | 27 | <u>34</u> |
| 8 | <u>18</u> | 18 | <u>74</u> | 28 | <u>39</u> |
| 9 | <u>16</u> | 19 | <u>81</u> | 29 | <u>6</u> |
| 10 | <u>96</u> | 20 | <u>86</u> | 30 | <u>12</u> |

* Estimated % survival to emergence was calculated using the equation published by Weaver and Fraley, 1993.

** Redd potential was determined by dividing area of suitable spawning gravel by average redd size (Thurow and King, 1994)

*** Production Index is an estimate of fry production calculated by multiplying redd potential by the estimated % survival to emergence and the calculated egg deposition (E) for the average sized female (310mm), using a lengthfecundity relation for westslope cutthroat trout ($E=82.63e^{0.007958L}$), where L is fork length in millimeters (Downs and Shepard). Total egg deposition is assumed to be distributed between 3 redds for every 2 spawning females (Scott and Crossman 1973).

**** Geometric mean diameter (D_g) was calculated by a method of moments using the formula of Lotspeich and Everest (1981):

$D_g = D_a^{P_a} \times \dots \times D_i^{P_i}$, where D_g = the meometric mean (mm); D_i = the mean diameter (mm) of material retained on sieve i ;

P_i = the proportion by weight of the entire sample made up of material retained on sieve i .

***** The freidle index (F_i) was calculated using the formula: $F_i = D_g/S_o$, where S_o = a sorting coefficient

Appendix G

Cohort analysis of growth for cutthroat trout and brook trout in
select tributaries of the Coeur d'Alene Reservation, 1998.

Mean back-calculated lengths at annulus formation by age class and cohort - 1998.

| SPECIES | Cutthroat Trout | Age Class | | | | | | | | |
|--------------------|-----------------|------------|-----------|------------|------------|------------|------------|------------|------------|------------|
| LOCATION | COHORT | Number | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| ALDER | 1996 | 3 | 77 | 112 | | | | | | |
| | 1995 | 8 | 82 | 117 | 154 | | | | | |
| | 1994 | 5 | 86 | 127 | 165 | 203 | | | | |
| | 1993 | 1 | 82 | 111 | 147 | 183 | 220 | | | |
| ALDER Total | | 17 | 82 | 119 | 158 | 200 | 220 | | | |
| BENEWAH | 1996 | 17 | 45 | 104 | | | | | | |
| | 1995 | 55 | 43 | 97 | 157 | | | | | |
| | 1994 | 24 | 41 | 95 | 151 | 208 | | | | |
| | 1993 | 18 | 45 | 103 | 166 | 238 | 297 | | | |
| | 1992 | 24 | 40 | 98 | 163 | 224 | 281 | 340 | | |
| | 1991 | 3 | 32 | 76 | 124 | 182 | 237 | 305 | 367 | |
| BENEWAH Total | | 141 | 43 | 98 | 157 | 220 | 285 | 336 | 367 | |
| EVANS | 1996 | 1 | 38 | 92 | | | | | | |
| | 1995 | 27 | 61 | 108 | 155 | | | | | |
| | 1994 | 15 | 64 | 112 | 161 | 209 | | | | |
| | 1993 | 2 | 67 | 116 | 159 | 209 | 258 | | | |
| EVANS Total | | 45 | 62 | 109 | 157 | 209 | 258 | | | |
| LAKE | 1997 | 1 | 43 | | | | | | | |
| | 1996 | 11 | 58 | 105 | | | | | | |
| | 1995 | 98 | 61 | 110 | 156 | | | | | |
| | 1994 | 32 | 60 | 107 | 156 | 203 | | | | |
| | 1993 | 14 | 61 | 116 | 162 | 212 | 261 | | | |
| | 1992 | 20 | 65 | 119 | 165 | 216 | 267 | 325 | | |
| | 1991 | 16 | 61 | 104 | 158 | 206 | 256 | 304 | 350 | |
| | 1990 | 1 | 61 | 108 | 155 | 202 | 258 | 305 | 352 | 390 |
| LAKE Total | | 193 | 61 | 110 | 158 | 208 | 262 | 315 | 350 | 390 |
| Grand Total | | 396 | 56 | 106 | 157 | 213 | 272 | 324 | 352 | 390 |

Standard deviation of mean back-calculated lengths at annulus formation - 1998.

| SPECIES | Cutthroat Trout | Age Class | | | | | | | | |
|--------------------|-----------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------------|
| LOCATION | COHORT | Number | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| ALDER | 1996 | 3 | 2 | 4 | | | | | | |
| | 1995 | 8 | 8 | 6 | 10 | | | | | |
| | 1994 | 5 | 4 | 11 | 8 | 11 | | | | |
| | 1993 | 1 | ##### | ##### | ##### | ##### | ##### | ##### | ##### | ##### |
| ALDER Total | | 17 | 7 | 9 | 11 | 13 | ##### | | | |
| BENEWAH | 1996 | 17 | 8 | 12 | | | | | | |
| | 1995 | 55 | 10 | 14 | 15 | | | | | |
| | 1994 | 24 | 9 | 15 | 12 | 18 | | | | |
| | 1993 | 18 | 10 | 15 | 17 | 30 | 32 | | | |
| | 1992 | 24 | 7 | 13 | 16 | 22 | 21 | 22 | | |
| | 1991 | 3 | 12 | 34 | 29 | 28 | 32 | 32 | 18 | |
| BENEWAH Total | | 141 | 9 | 15 | 16 | 27 | 30 | 25 | 18 | |
| EVANS | 1996 | 1 | ##### | ##### | | | | | | |
| | 1995 | 27 | 15 | 17 | 14 | | | | | |
| | 1994 | 15 | 15 | 16 | 18 | 18 | | | | |
| | 1993 | 2 | 20 | 15 | 19 | 30 | 26 | | | |
| EVANS Total | | 45 | 15 | 17 | 16 | 18 | 26 | | | |
| LAKE | 1997 | 1 | ##### | | | | | | | |
| | 1996 | 11 | 11 | 18 | | | | | | |
| | 1995 | 98 | 10 | 16 | 20 | | | | | |
| | 1994 | 32 | 7 | 11 | 14 | 14 | | | | |
| | 1993 | 14 | 7 | 28 | 27 | 37 | 36 | | | |
| | 1992 | 20 | 9 | 13 | 17 | 19 | 35 | 31 | | |
| | 1991 | 16 | 7 | 22 | 9 | 15 | 17 | 20 | 24 | |
| | 1990 | 1 | ##### | ##### | ##### | ##### | ##### | ##### | ##### | ##### |
| LAKE Total | | 193 | 9 | 17 | 19 | 21 | 30 | 28 | 24 | ##### |
| Grand Total | | 396 | 15 | 17 | 17 | 24 | 32 | 28 | 23 | ##### |

Mean back-calculated lengths at annulus formation by age class and cohort - 1998.SPECIES **Brook Trout****Age Class**

| LOCATION | Cohort | Number | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---------------|--------|--------|----|-----|-----|-----|-----|-----|-----|---|
| ALDER | 1996 | 1 | 70 | 124 | | | | | | |
| | 1995 | 36 | 71 | 107 | 145 | | | | | |
| | 1994 | 20 | 73 | 112 | 150 | 186 | | | | |
| | 1993 | 3 | 74 | 122 | 170 | 207 | 239 | | | |
| | 1992 | 5 | 72 | 115 | 156 | 202 | 241 | 281 | | |
| | 1991 | 1 | 76 | 108 | 150 | 182 | 225 | 267 | 299 | |
| ALDER Total | | 66 | 72 | 110 | 148 | 191 | 238 | 279 | 299 | |
| BENEWAH | 1997 | 1 | 55 | | | | | | | |
| | 1996 | 6 | 79 | 105 | | | | | | |
| | 1995 | 14 | 84 | 121 | 153 | | | | | |
| | 1994 | 7 | 84 | 114 | 144 | 172 | | | | |
| | 1993 | 2 | 81 | 118 | 154 | 182 | 209 | | | |
| BENEWAH Total | | 30 | 82 | 116 | 150 | 175 | 209 | | | |
| Grand Total | | 96 | 75 | 112 | 149 | 187 | 233 | 279 | 299 | |

Standard deviation of mean back-calculated lengths at annulus formation - 1998.SPECIES **Brook Trout****Age Class**

| LOCATION | Cohort | Number | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---------------|-------------|--------|---------|-------|-------|-------|-------|-------|-------|-------|
| ALDER | 2 | | 1 ##### | ##### | | | | | | |
| | 3 | | 36 | 7 | 11 | 15 | | | | |
| | 4 | | 20 | 6 | 10 | 9 | 13 | | | |
| | 5 | | 3 | 9 | 12 | 12 | 13 | 9 | | |
| | 6 | | 5 | 7 | 6 | 17 | 25 | 29 | 32 | |
| | 7 | | 1 ##### | ##### | ##### | ##### | ##### | ##### | ##### | ##### |
| | ALDER Total | | 66 | 7 | 11 | 15 | 17 | 22 | 29 | ##### |
| BENEWAH | 1 | | 1 ##### | | | | | | | |
| | 2 | | 6 | 6 | 7 | | | | | |
| | 3 | | 14 | 8 | 16 | 24 | | | | |
| | 4 | | 7 | 5 | 8 | 10 | 11 | | | |
| | 5 | | 2 | 8 | 18 | 28 | 36 | 44 | | |
| BENEWAH Total | | | 30 | 9 | 14 | 20 | 17 | 44 | | |
| Grand Total | | | 96 | 9 | 12 | 16 | 18 | 27 | 29 | ##### |