

FINAL

2001 TOTAL MAXIMUM DAILY LOAD BASELINE MONITORING REPORT
Upper Blackfoot, Salt, and Bear River Watersheds
Southeastern Idaho Phosphate Resource Area - April 2002



Prepared for

Idaho Department of Environmental Quality

Ross Fork

Blackfoot River

Salt River

Portneuf River

Bear River



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**AREA WIDE INVESTIGATION
SOUTHEAST IDAHO PHOSPHATE MINING RESOURCE AREA
Contract Number C023
Task Order AWI-01-01**

Prepared for

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BASELINE MONITORING REPORT**

**Selenium Project
Southeast Idaho Phosphate Mining Resource Area**

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Prepared by

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EXECUTIVE SUMMARY

The upper Blackfoot River and some respective tributaries in southeastern Idaho are listed on the State's 303(d) list for nutrients, sediment, organic compounds, and unknown pollutants. The Idaho Department of Environmental Quality (IDEQ) performed loading analyses for nutrients and sediment, and in 2001, the IDEQ submitted the "Blackfoot River Waterbody Assessment and Total Maximum Daily Load" report for U.S. Environmental Protection Agency approval. Previous investigations have demonstrated that selenium, cadmium, and other trace metals are present in the Blackfoot River and some tributaries at concentrations potentially deleterious to fish, such as the Yellowstone cutthroat trout, and other wildlife. Such concentrations have also been observed in tributaries within the upper Salt River and Bear River watersheds, both of which are neighbors of the upper Blackfoot River. All perennial waters within these watersheds are protected by law for the benefit of aquatic life. The presence of selenium and other toxics in these watersheds is ultimately related to the watersheds' underlying geology and mineralogy. Mining activity in these watersheds over the last 100 years is believed to have accelerated the rate at which these substances are exposed to weathering processes and released to surface waters within the watershed.

This report documents the results of three surface water monitoring events performed by Tetra Tech EM Inc. (TtEMI) and IDEQ in May, June, and September 2001. The main objective of the monitoring was to characterize baseline levels of selenium and toxic trace metals in the three watersheds. Results presented here are intended to assist the IDEQ and other stakeholders in assessing the degree to which the aquatic life water quality criteria for selenium and other pollutants of concern in the upper Blackfoot, Salt, and Bear River watersheds are being met. Discussion of pollutants is limited to total (unfiltered) selenium and the dissolved (filtered) phase of nine toxic metals regulated by Idaho Administrative Code and enforced by the IDEQ.

Surface water data were collected from 31 monitoring stations over the course of 2001 monitoring. Of the 31 stations, 22 were located downstream from mining activities, and nine were assumed to represent background or reference conditions. Due to below-average precipitation and runoff conditions, low stream flows were observed during all monitoring events, and several streams sampled during Event 1 were dry during Event 3.

Overall, concentrations of selenium and metals in the three watersheds were lower than reported by previous studies. This may likely be attributed to stream flow conditions that were notably lower than during previous years. On average, concentrations of selenium and other metals were highest during flows associated with peak snowmelt conditions. Arsenic was below laboratory detection limits for water

samples collected from all stations during the three monitoring events. Copper, nickel, and zinc were detected at the majority of impacted and background stations during all three events. Results for other metals exhibited variation in the number of stations at which they were detected over the course of 2001 monitoring. Selenium was detected at 10 to 13 impacted stations during each event and at only three background stations during Event 3. Observed selenium concentrations exceeded chronic criteria during Events 1 and 2 at the mouth of Spring Creek, exceeded acute criteria in East Mill Creek during all three events, and exceeded chronic criteria near the mouth of Sage Creek during Event 3.

A selenium loading analysis was performed to evaluate trends in selenium loads over the course of 2001 monitoring at individual monitoring stations and along stream reaches within the study area watersheds. At most stations, selenium loads consistently decreased over the course of 2001 monitoring. From evaluation of selenium loads over individual stream reaches, monitoring results suggest that selenium was immobilized in certain reaches of certain streams. Results also suggest that there are unknown sources of selenium to certain streams that were not directly sampled during 2001 monitoring. Such sources may include discharge of shallow groundwater, unsampled tributary streams, or entrainment of in-stream selenium.

To further assist IDEQ in assessing selenium concentrations in study area streams, analytical results from surface water monitoring performed by Montgomery Watson (MW) in 1998 and 1999, and TtEMI in July 2001, were compiled. Overall, selenium concentrations in streams sampled in 1998 and/or 1999 were considerably higher than selenium concentrations observed in the same streams sampled in 2001. This is largely attributed to low flow conditions associated with decreased runoff in 2001, when compared to conditions in 1998 and 1999. Evaluation of all TtEMI and MW surface water selenium data revealed exceedances of chronic selenium criteria at least once in Georgetown Creek, Sage Creek, East Mill Creek, Spring Creek, Maybe Creek, Dry Valley Creek, Trail Creek, State Land Creek, and the Blackfoot River.

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ACRONYMS AND ABBREVIATIONS

| | |
|-------------------------|---|
| µg/L | Micrograms per Liter |
| mg CaCO ₃ /L | Milligrams Calcium Carbonate per Liter |
| ACZ | ACZ Laboratories, Inc. |
| BG | Background |
| BLM | Bureau of Land Management |
| BIA | Bureau of Indian Affairs |
| BURP | Beneficial Use Reconnaissance Program |
| CCC | Criteria Continuous Criterion |
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act |
| CF | Conversion Factor |
| CFR | Code of Federal Regulations |
| cfs | Cubic Feet per Second |
| CMC | Criteria Maximum Concentration |
| COPEC | Chemical of Potential Ecologic Concern |
| CWA | Clean Water Act |
| DQO | Data Quality Objective |
| EIS | Environmental Impact Statement |
| EPA | U.S. Environmental Protection Agency |
| EWI | Equal-width-increment |
| FS | U.S. Forest Service |
| FSP | Field Sampling Plan |
| FWS | U.S. Fish and Wildlife Service |
| GPS | Global Positioning System |
| HSP | Health and Safety Plan |
| IDEQ | Idaho Department of Environmental Quality |
| IDFG | Idaho Department of Fish and Game |
| IDH | Idaho Department of Health |
| IMA | Idaho Mining Association |
| IMP | Impacted |
| IWRRI | Idaho Water Resources Research Institute |
| MDL | Method Detection Limit |
| MOU | Memorandum of Understanding |
| MS/MSD | Matrix Spike/Matrix Spike Duplicate |
| MSL | Mean Sea Level |
| MW | Montgomery Watson |
| NTR | National Toxics Rule |

ACRONYMS AND ABBREVIATIONS (Continued)

| | |
|--------|---|
| QA/QC | Quality Assurance/Quality Control |
| QAPP | Quality Assurance Project Plan |
| QC | Quality Control |
| SAP | Sampling and Analysis Plan |
| SDHD | Southeastern District Health Department |
| SeAWAC | Selenium Area Wide Advisory Committee |
| SeWG | Selenium Working Group |
| TMDL | Total Maximum Daily Load |
| TOC | Total Organic Carbon |
| TtEMI | Tetra Tech EM Inc. |
| U of I | University of Idaho |
| USGS | U.S. Geological Survey |
| WER | Water Effect Ratio |
| WQS | Water Quality Standards |
| WRCC | Western Regional Climate Center |
| WY | Water Year |

1.0 INTRODUCTION

In April 2001, the Idaho Department of Environmental Quality (IDEQ) initiated a surface water quality investigation of the upper Blackfoot River, upper Salt River, and upper Bear River watersheds within the Southeastern Idaho Phosphate Mining Resource Area (Resource Area) to evaluate the need for expanding the total maximum daily load (TMDL) program to include selenium and other toxic constituents in surface waters of those watersheds. Under a separate action, IDEQ retained Tetra Tech EM Inc. (TtEMI) in October 2000 to perform an independent review of the existing data and preliminary risk assessment compiled and published by the Idaho Mining Association (IMA) Selenium Committee and to assist IDEQ in development of human health and ecological risk assessments associated with past phosphate mining operations in the Resource Area.

Phosphate mining has been practiced in the Resource Area since 1907. Recent concerns over possible impacts from historical and present mining prompted IDEQ to assess surface water quality in the area. Surface water quality is also a critical component of risk assessment, so it was logical to integrate the two tasks. IDEQ contracted TtEMI to conduct surface water and sediment sampling to support the development of area-wide human health and ecological risk assessments and to assist in evaluating surface water quality for compliance with regulatory requirements. Surface water quality data needs for area-wide risk assessment and the TMDL process are similar; therefore, the data collection efforts were combined to avoid duplication of effort and to reduce overall costs of both tasks.

1.1 PURPOSE OF REPORT

In 2001, TtEMI performed baseline surface water monitoring in the upper Blackfoot River, upper Salt River, and upper Bear River watersheds in the Resource Area to (1) fulfill data needs of concurrent human health and ecological risk assessments and (2) assist IDEQ in determination of baseline surface water quality in the Resource Area. The purpose of this report is to summarize the results of 2001 baseline monitoring activities. The report focuses on results pertinent to the regulatory interests of IDEQ. Emphasis is placed on streams where results of laboratory analyses indicate pollutants were present at concentrations that could exceed regulatory criteria and potentially impair aquatic life beneficial uses.

1.2 SITE BACKGROUND AND HISTORY

Phosphate mining has been practiced in southeastern Idaho throughout most of the 20th century, starting with the Waterloo mine in 1907. The Resource Area covers approximately 2,500 square miles in southeastern Idaho and includes four active and 11 inactive phosphate mines as well as numerous

“orphaned” mine sites (see Figure 1). The major phosphate mines in the Resource Area are open pit or contour strip operations that were developed near surface exposures of the Meade Peak Phosphatic Shale Member of the Phosphoria Formation. Production from this region represents a significant source of phosphorus for industrial and agricultural applications. Nearly 40 percent of the U.S. phosphate reserves occur in the Phosphoria Formation in southeastern Idaho, northern Utah, and western Wyoming.

In 1996, isolated livestock losses associated with excessive selenium uptake prompted concerns about potential ecological and human health impacts from past mining operations in the Resource Area (Montgomery Watson [MW] 1999b). In response to these concerns, five companies operating mines in the region formed an “*ad hoc*” Selenium Committee of the IMA to characterize the environmental risks and identify mitigative measures associated with phosphate mining. The IMA Selenium Committee was formed in 1997 as a voluntary and joint group to address mining-related environmental issues on a regional basis. An Interagency/Phosphate Industry Selenium Working Group (SeWG) was subsequently established to facilitate communication and participation by cooperating federal, state, local, and tribal entities. The SeWG consisted of voluntary representatives from the following agencies and groups:

- IDEQ
- Idaho Department of Lands
- Idaho Department of Fish and Game (IDFG)
- Idaho Department of Health (IDH)
- Shoshone-Bannock Tribes
- Southeastern District Health Department (SDHD)
- U.S. Forest Service (FS)
- U.S. Bureau of Land Management (BLM)
- U.S. Bureau of Indian Affairs (BIA)
- U.S. Fish and Wildlife Service (FWS)
- U.S. Environmental Protection Agency (EPA)
- U.S. Geological Survey (USGS)
- Other interested stakeholders (such as ranchers and the Greater Yellowstone Coalition)

In August 2000, IDEQ was specified as the lead agency for coordinating the future activities of the area-wide investigation and for establishing regional cleanup guidance to assist lead agencies in implementing future site-specific remedial efforts. IDEQ subsequently established an Interagency Technical Group to coordinate activities with the other jurisdictional and administrative agencies. IDEQ also established the Selenium Area Wide Advisory Committee (SeAWAC) to continue to solicit input from the mining companies, project stakeholders, and other participants in the former SeWG.

1.3 PREVIOUS INVESTIGATIONS

Numerous investigations have been or are being performed within the Resource Area, and a wide range of environmental media, natural features, and mine facilities have been sampled and analyzed, including biotic and abiotic media. Studies of the general geology of the Phosphoria Formation and site-specific investigation of selenium biogeochemistry have also been or are being conducted by various entities, including the USGS, FS, IDFG, FWS, and individual mine operators. Much of the characterization and risk assessment work since 1997 has been conducted by MW under the auspices of the IMA Selenium Committee and is documented in a series of reports prepared by MW (MW 1998a, 1998b, 1999a, 1999b, 2000). This work has involved sampling of soil, plant and wildlife tissue, groundwater, and surface water from or near mining-impacted areas and mine facilities. Surface water sampling included seeps, french drains, and a variety of ponds near mine facilities as well as numerous streams within the Blackfoot, Salt, Bear, and Portneuf River watersheds. In general, analytical results of water samples collected from or near mine facilities and mining-impacted areas have revealed elevated concentrations of selenium and toxic trace metals. Some analytical results of selenium in stream samples collected by MW in 1998 and 1999 are discussed later in this report.

In the early to mid-1970s, agencies began documenting levels of selenium and trace metals in soil, streams, and other land and surface water features near mine facilities in the Resource Area. Pertinent results from some studies are compiled in an Environmental Impact Statement (EIS) prepared jointly by the USGS, BLM, and FS and released in 1977. The EIS, titled, "Final Environmental Impact Statement, Development of Phosphate Resources in Southeastern Idaho," presents an analysis of the broad cumulative impacts of existing and proposed development of phosphate resources in southeastern Idaho (USGS 1977). Based on data that had been compiled by the USGS, the agencies were aware of high concentrations of selenium and metals in rock types associated with the Phosphoria Formation. In all rock types of the Phosphoria Formation, concentrations of selenium and cadmium were 200 or more times greater than concentrations found in the Earth's crust, and antimony, arsenic, molybdenum, and silver were more than 10 times greater than those found in the Earth's crust (USGS 1977). In individual rock types of the Phosphoria Formation, fluoride, vanadium, uranium, zinc, chromium, thallium, mercury, and tin were also higher than concentrations found in the Earth's crust (USGS 1977). Some of these metals had also been detected at elevated concentrations near phosphate processing plants. According to USGS (1977), based on regression analyses, concentrations of 14 trace metals, including some of those mentioned previously, were twice as high in soil within 1 mile from processing plants in Pocatello, Idaho, than concentrations in soil within 30 miles from the plants.

Prior to 1974, available water quality data for tributaries to the Bear and Blackfoot Rivers were minimal (USGS 1977). Soon thereafter, the USGS, FS, and Idaho Department of Health and Welfare's Division of Environment began performing partial chemical analyses and flow measurements in the Bear and Blackfoot watersheds on a fairly intensive basis (USGS 1977). While acknowledging that available water quality data for the study area was limited, USGS (1977) concluded that toxic elements, such as arsenic, cadmium, chromium, molybdenum, selenium, thallium, vanadium and zinc, were not present in significant quantities in either surface water or groundwater. USGS (1977) added that no information was available about the distribution of these elements on suspended material in surface water and that erosion processes acting on mine dumps and pits could conceivably carry trace elements into lakes and impoundments with possible deleterious impacts over the long term. USGS (1977) predicted that phosphate mining would result in slight increases in concentrations of metals in water resources.

In 1978, the FS published a report detailing the findings of a 6-year investigation (1970 to 1976) of the aquatic environment and biota of the Blackfoot River and three tributaries, including Diamond Creek, Kendall Creek, and Angus Creek (Platts and Martin 1978). Stream samples were analyzed for selenium and 10 metals. Platts and Martin (1978) concluded that metal concentrations in the streams studied were generally quite low. Concentrations of iron approached toxic concentrations, but the buffering action of high hardness and alkalinity minimized any detrimental effects on salmonids.

Maxim Technologies was contracted to prepare an EIS for the proposed expansion of FMC Corporation's open-pit mining operations in Dry Valley (A. A. Rich and Associates 1999). Fishery resource-related issues arose as a result of the proposed expansion, and in response, A. A. Rich and Associates published a fishery resources report (A. A. Rich and Associates 1999). This report included a review of previous studies as well as fish surveys conducted in 1998. The report was intended to assist with the fisheries portion of the EIS. The study area included Dry Valley Creek and the Blackfoot River from Dry Valley Creek down to Blackfoot Reservoir. The authors reported that selenium and seven metals in Dry Valley Creek and the Blackfoot River in the vicinity of Dry Valley Creek were "at concentrations consistently about EPA chronic criteria." Section 4.3.3 of this report discusses State of Idaho water quality standards and numeric criteria for selenium and metals in surface waters.

In 2001, TtEMI conducted a review of the existing data and preliminary risk assessment work and performed a data gaps analysis as part of an area-wide scope of work referenced in the July 2000 "Interagency Memorandum of Understanding Concerning Contamination from Phosphate Mining Operations in Southeastern Idaho" (MOU), which was negotiated among IDEQ and the tribal and federal

agencies with jurisdictional responsibilities in the region. The MOU specified IDEQ as the lead agency for coordinating the future activities of the area-wide investigation and for establishing regional cleanup guidance to assist lead agencies in implementing future site-specific remedial efforts. The area-wide investigation is incorporated as part of an Administrative Order of Consent negotiated with the responsible mining companies. Findings are presented in two TtEMI reports, "Final Existing Data and Risk Assessment Review" (TtEMI 2001a) and "Final Data Gap Technical Memorandum" (TtEMI 2001b). TtEMI concluded that most of the previous studies have been preliminary in nature, and several data gaps were identified, as follows:

- The previous studies measured a limited number of analytes. Water quality analyses were limited to only six metals. Other chemicals of potential ecological concern (COPEC) in addition to selenium and cadmium may be present at elevated concentrations.
- The previous studies included stream discharge measurements at a limited number of sites. Concurrent water quality and stream discharge measurements are needed to estimate relative quantities of constituents in the stream.
- Preliminary results from previous studies suggest that critical pollutant load conditions occur during snowmelt. The relationship between snowmelt and runoff water quality and quantity needs further study.
- Intensive sampling and analyses are necessary to verify previous monitoring results and to expand data usefulness for water quality assessment.

IDEQ subsequently requested that TtEMI develop a surface water monitoring plan to fill the existing data gaps and perform a baseline assessment of surface water quality in the upper Blackfoot River, upper Salt River, and upper Bear River watersheds.

2.0 BASELINE SURFACE WATER MONITORING PLAN AND OBJECTIVES

The goal of the baseline surface water monitoring plan was to fulfill data needs of the area-wide risk assessments and assist IDEQ in determining if aquatic life beneficial uses of study area streams are impaired due to excessive concentrations of metals. Any stream or stream reach assessed by IDEQ as impaired due to metals may be placed on Idaho's 303(d) list. Once placed on the 303(d) list, IDEQ must develop a TMDL for each pollutant causing the listing.

The objectives of the baseline surface water monitoring plan were as follows:

- Establish a baseline for surface water quality in the upper Blackfoot River, upper Salt River, and upper Bear River watersheds
- Determine if numeric water quality criteria for aquatic life are exceeded
- Collect data to aid in identifying COPECs to support the area-wide risk assessments
- Determine if phosphate mining activities are affecting surface water quality

To meet these objectives, seven sampling events were originally proposed to encompass the range of flow conditions between snowmelt (in late spring) and establishment of baseflow (in early fall). However, 2001 proved to be a relatively dry year—prevailing precipitation patterns and flow conditions were below average, and many streams were reduced to no-flow conditions by late summer. IDEQ was concerned that data collected during 2001 might not be representative of normal flow years and average conditions. In response to these concerns, TtEMI revised the original monitoring plan, reducing the number of field sampling events from seven to three.

The first sampling event (Event 1) was performed in mid-May 2001 with the intent of capturing spring runoff conditions. The objectives of Event 1 sampling were to (1) initiate baseline assessment of surface water quality at select stations, (2) screen surface water data for exceedances of water quality standards and criteria, and (3) characterize background surface water quality. Results from the Event 1 sampling were used to (1) refine the list of COPECs and stations for subsequent sampling events, (2) identify monitoring stations for Event 2 bed material sediment sampling and analysis, and (3) identify monitoring stations where 4-day averaging sampling protocols would be followed during Event 2.

The second sampling event (Event 2) was performed in mid-June 2001. The objectives of Event 2 sampling were to (1) collect water quality samples to support 4-day averaging at stations where COPEC

concentrations exceeded numeric surface water quality standards and criteria during Event 1, (2) continue baseline monitoring of surface water at all stations for further characterization of surface water quality, and (3) collect bed material sediment samples from select stations for partitioning estimates. A third sampling event (Event 3) was performed in mid-September 2001 to represent a continuation of the baseline assessment.

TtEMI and IDEQ also performed monitoring at eight additional stations within the upper Blackfoot and Salt River watersheds in July 2001 to fulfill specific data needs of the concurrent human health and ecological risk assessments for IDEQ. During this monitoring event (defined as a rapid bioassessment), TtEMI collected surface water, sediment, and plant tissue samples. IDEQ assisted in collection of fish and benthic invertebrate tissue samples. Pertinent results of July 2001 surface water monitoring are presented and discussed in the results section of this report.

3.0 STUDY AREA DESCRIPTION

The study area for the baseline surface water monitoring plan and assessment developed by TtEMI focused on the upper portions of three major drainage areas located within the Resource Area:

- Blackfoot River watershed
- Salt River watershed
- Bear River watershed

A map of the study area for 2001 baseline monitoring activities is shown on Figure 2. The following sections describe the general geology, topography, hydrology, land uses, climate, and fishery resources of the study area.

3.1 GEOLOGY AND TOPOGRAPHY

The study area is located within the northern region of the Basin and Range Physiographic province (MW 1999b, 2000). Bedrock geology comprises mostly Paleozoic and Mesozoic marine sediments that include limestone, shale, sandstone, mudstone and chert (Platts and Martin 1978). The Meade Peak Phosphatic Shale Member of the Phosphoria Formation, which is included in this group of sediments, constitutes the principal phosphate source for mining in this region and extends throughout southeastern Idaho, northern Utah, and western Wyoming. These sediments are nutrient-rich and have a high mineral content that contributes to high aquatic biomass production within study area streams (Platts and Martin 1978). USGS (1977) provides a detailed discussion of the geology and mineralogy of the Phosphoria Formation. Valley fill is typically characterized by Pleistocene basalt flows overlain by Quaternary alluvium and colluvium (MW 1999b, 2000). Most of the remaining volcanic sequences in the study area are composed of rhyolite flows and rhyolite domes (MW 1999b, 2000).

Elevations within the study area range from approximately 4,528 feet above mean sea level (MSL) near the Gay Mine to 9,957 feet above MSL at Meade Peak, located east of Georgetown, Idaho. A topographic relief between 1,000 and 2,000 feet is common in central and eastern portions of the study area. In western portions of the study area, relief is usually less than 1,000 feet (MW 1999b, 2000).

3.2 HYDROLOGY

Major stream systems located in the study area include the Bear River (which eventually drains into the Great Salt Lake), the Salt River (a tributary to the Snake River), and the Blackfoot River (also a tributary

to the Snake River). With its headwaters in northeastern Utah, the Bear River flows through a portion of Wyoming and enters Idaho near Border, Wyoming. Major tributaries contributing flow to the Salt River include Crow, Stump, and Tygee creeks. The Blackfoot River system comprises much of the northwestern portion of the study area. Blackfoot Reservoir separates the Blackfoot River into upper and lower sections. Major tributaries to the upper Blackfoot River include Angus, Dry Valley, Diamond, Lanes, Trail, and Slug creeks. The Little Blackfoot River, another major tributary within the upper Blackfoot watershed, discharges directly to Blackfoot Reservoir.

Annual runoff in the study area is approximately 1.2 million acre-feet; almost all of this may be attributed to seasonal snowmelt (MW 1999b, 2000; Idaho Water Resources Research Institute [IWRRI] 1968). Numerous springs and seeps contribute to stream baseflow in the study area. At higher elevations, streams fed by large springs are often perennial, while other streams flow only during snowmelt (MW 1999b, 2000; IWRRI 1968). Fractured limestone beds and permeable sandstone beds are probably the main sources of water for the larger springs throughout the area (USGS 1977). Alluvium in larger valleys, such as Slug, Trail, Rasmussen, and Wooley Valley, is the most accessible source of groundwater, other than springs (USGS 1977). Sources of recharge to alluvium include snowmelt, direct precipitation, and tributary streamflow from surrounding ridges (USGS 1977). Some streams in the study area are known to “sub” or eventually disappear along their reaches because of losses to groundwater. Recharge to alluvium commonly reappears in the perennial reaches of streams as baseflow. The groundwater in the alluviated valleys moves, in general, toward the streams that drain the valleys and subsequently downgradient toward the valley mouths (USGS 1977). USGS (1977) provides evidence to suggest that intervalley transfer of groundwater occurs in the study area whereby groundwater may move through a permeable bed from recharge areas on one side of a topographic divide to lower points of discharge on the other side.

3.3 LAND USES

Major land uses in the study area include phosphate mining, irrigated and dryland farming, and livestock grazing. Phosphate ore produced from mining activities is transported by truck, rail, and slurry pipeline to local processing facilities in Soda Springs and Pocatello, Idaho. A large portion of the study area lies within the Caribou National Forest. The BLM and State of Idaho are also responsible for lands within the study area. This sparsely populated region supports numerous recreational activities, most notably hunting, fishing, and camping. Population centers in the region include Pocatello, Soda Springs, and Montpelier, Idaho, as well as Afton, Wyoming.

3.4 CLIMATE

Topography exerts significant influence on climatic patterns in southeastern Idaho. North-south trending mountain ranges in the west create a rainshadow effect in the study area. Climate in the Snake River Plain is semi-arid, mid-latitude steppe as a result of the rainshadow (MW 1999b, 2000). Higher elevations in the study area typically experience increased moisture and cooler temperatures. Fall and winter weather are characterized by cold, dry, continental air and cyclonic storms. The summer season is typically dry with occasional precipitation from localized, orographic thunderstorms.

Climate patterns between 1997 and 2001 varied significantly and may have influenced the results of the MW and TtEMI studies. Based on results from MW's surface water sampling from 1997 to 1999, climatic conditions were close to average in terms of snowfall, precipitation, and streamflow; however, 2000 and 2001 conditions in southeastern Idaho were below average and much drier than conditions in recent years. Table 1 compares several climatic and hydrologic variables for years in which MW and TtEMI performed field sampling within the Resource Area. Climatic data were obtained from the following online databases:

- Snowfall – SNOTEL station located at Emigrant Summit, elevation 7,390 feet
- Precipitation – Western Regional Climate Center (WRCC) station located at Soda Springs Airport
- Mean Streamflow – Two USGS gaging stations located along the Blackfoot River

Values are given by water year (WY), which begins October 1 of the preceding calendar year and extends through September 30 of the present calendar year. Mean streamflow data for WY 2001 are not yet available.

According to WRCC data from the Soda Springs Airport station, average precipitation in the study area is approximately 17 inches. Average snowfall is about 48 inches. Snowfall, precipitation, and streamflow values were all lower during WY 2000 and 2001 than in preceding WYs (1997 through 1999). Snowfall and precipitation were also below average during WY 2000 and 2001. Figure 3 provides an illustration of trends in snowfall and snow moisture content for WYs 1997 through 2001. Total snowfall for 2000 and 2001 was significantly less

TABLE 1

SUMMARY OF CLIMATIC AND HYDROLOGIC CONDITIONS FOR STUDY AREA, 1997-2001

| Water Year ^a | Total Snowfall ^b (Inches) | Total Precipitation ^c (Inches) | Average Streamflow ^d (cfs) | |
|-------------------------|---|--|---------------------------------------|------------------|
| | | | Station 13068500 | Station 13068495 |
| 1997 | 56.0 | 21.9 | 241 | 254 |
| 1998 | 44.4 | 13.6 | 225 | 169 |
| 1999 | 41.5 | 18.7 | 188 | 134 |
| 2000 | 27.8 | 10.9 | 143 | 56 |
| 2001 | 27.7 | 8.7 | NA | NA |

Notes:

cfs Cubic feet per second
NA Data are not available
USGS U.S. Geological Survey
WY Water year

^aAll values are given by WY. WY runs from October 1 of the previous calendar year through September 30 of the current calendar year.

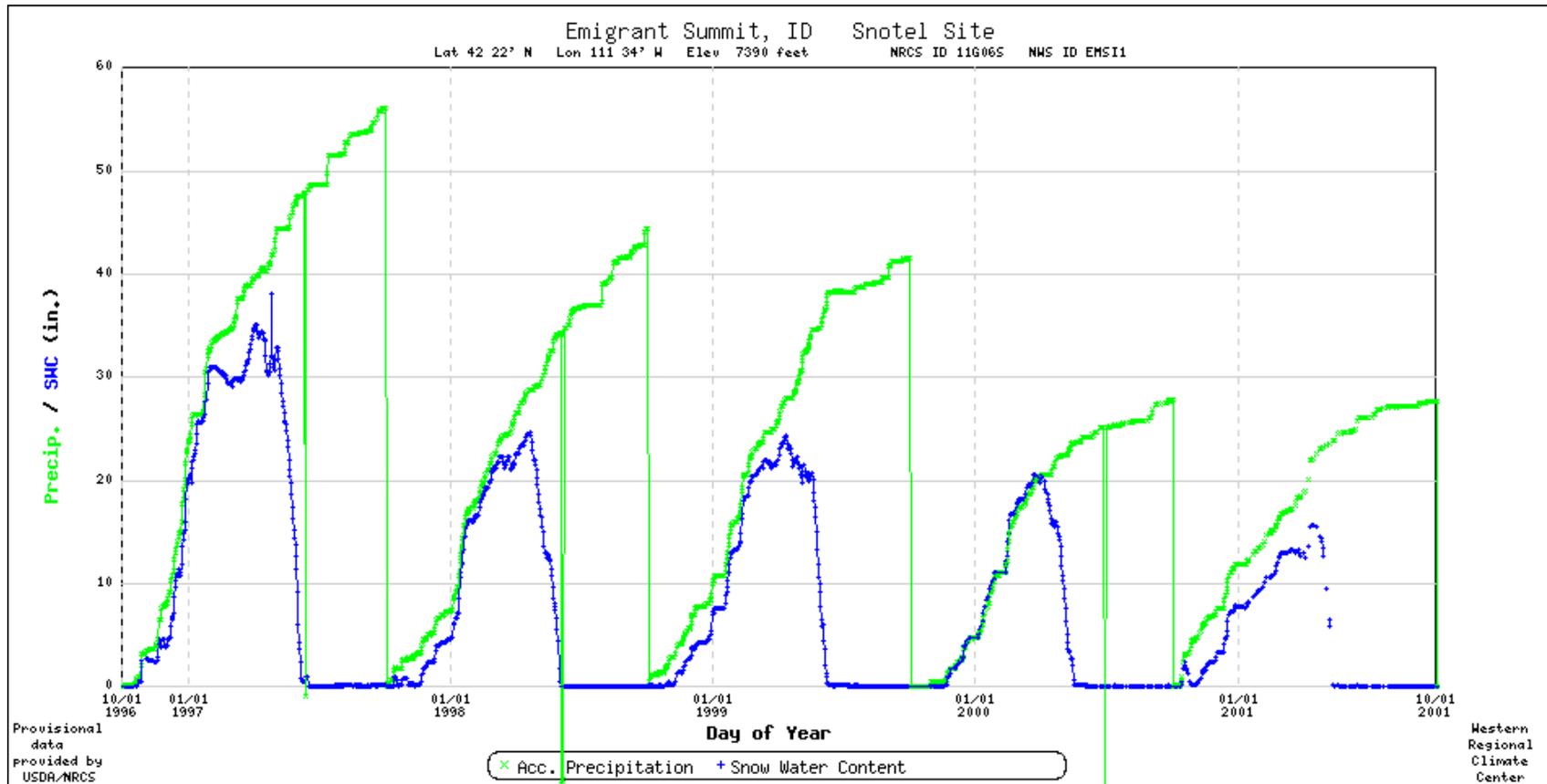
^bSnowfall values are taken from SNOTEL database: Emigrant Summit Station, elevation 7,390 feet. Website address is <http://www.wrcc.dri.edu/snotel/snoidah.html>.

^cPrecipitation values are taken from the Western Regional Climate Center database for Soda Springs Airport station. This station was used because it represented the most complete regional record available. Website address is <http://www.wrcc.dri.edu/summary/mapid.html>.

^dStreamflow values are taken from USGS stream gaging database. Values are from two gaging stations located along the Blackfoot River. Annual WY averages were calculated from monthly mean streamflow data. Station 13068500 is Blackfoot River near Blackfoot, Idaho. Station 13068495 is Blackfoot River Bypass near Blackfoot, Idaho. Website address is <http://water.usgs.gov/id/nwis.html>.

FIGURE 3

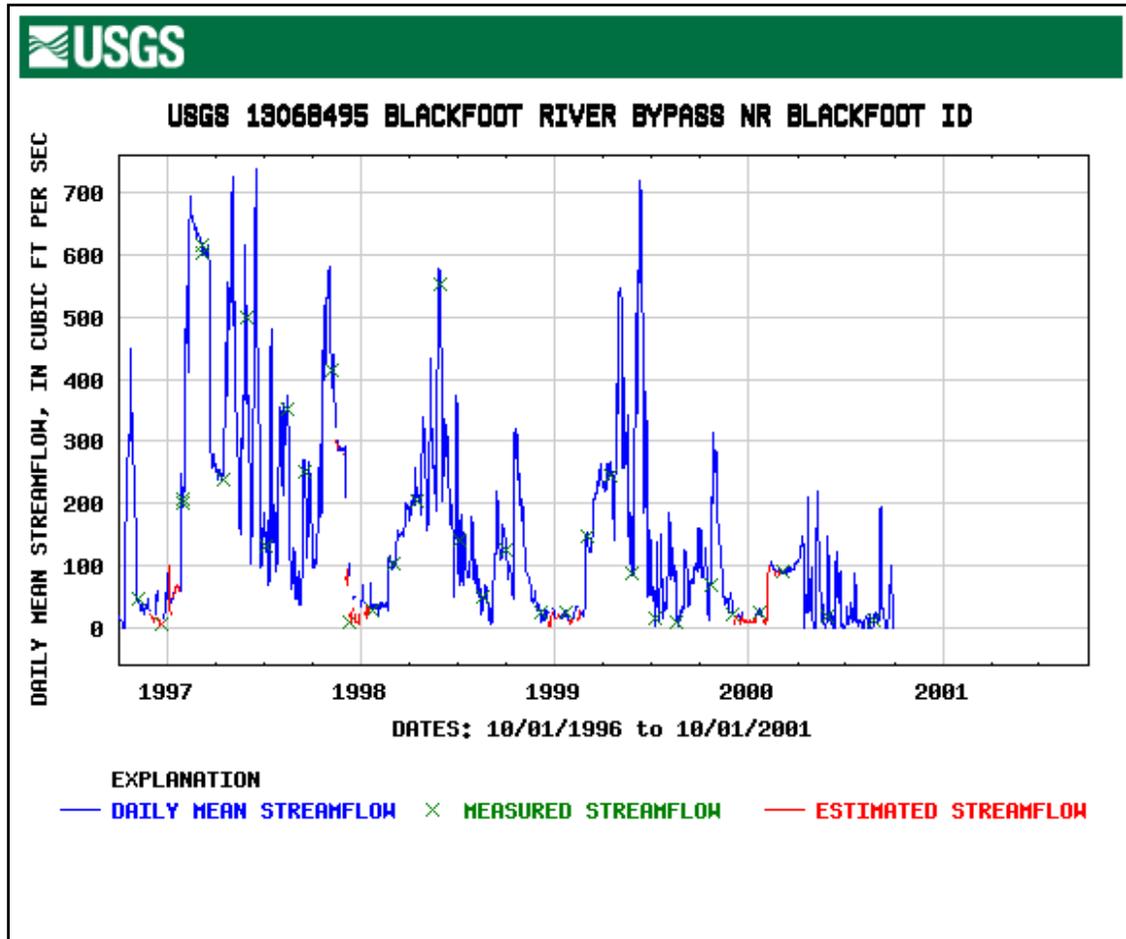
1997 – 2001 SNOTEL DATA, EMIGRANT SUMMIT, IDAHO



Notes:

- NRCS National Resource Conservation Service
- SWC Snow water content
- USDA U.S. Department of Agriculture

FIGURE 4
1997 – 2000 FLOW DATA, USGS GAGE 13068495



Notes:

| | |
|------------|-----------------|
| FT PER SEC | Feet per second |
| NR | Near |

than in previous years, and the snow that did accumulate contained less moisture. Decreased snowfall contributed to decreased surface water flows in study area streams during WY 2000 and 2001. Figure 4 shows average daily streamflow values between WY 1997 and 2000 for USGS gaging station 13068495, located on the Blackfoot River below Blackfoot Reservoir. Peak average flow for WY 2000, approximately 300 cubic feet per second (cfs), was considerably less than in previous years with peak average flows ranging from 600 to 700 cfs. The below-average conditions in the study area likely affected the results of the TtEMI baseline water quality assessment. Implications of the dry year are discussed in greater detail in the results section of this report.

3.5 FISHERIES

Study area streams provide habitat for numerous fish species, including cutthroat trout, non-native trout, suckers, and sculpin (A. A. Rich and Associates 1999). The Blackfoot River watershed contains a fishery of indigenous Yellowstone cutthroat trout (*Oncorhynchus clarki bouveri*) (A. A. Rich and Associates 1999; Lemly 1999). Non-native trout species include rainbow trout (*Oncorhynchus mykiss*), brook trout (*Salvelinus fontinalis*), and rainbow-cutthroat trout hybrids (A. A. Rich and Associates 1999). The Utah sucker and mottled sculpin are also present (A. A. Rich and Associates 1999; Thurow et al. 1981; Mariah and Associates [Mariah] 1989, 1990, 1991). Angus Creek and Diamond Creek are thought to provide critical habitat for spawning and rearing of cutthroat trout that eventually move to the Blackfoot River system (Platts and Martin 1978).

Fisheries in the study area have been impacted by various natural and anthropogenic factors. Many of the stream systems evolved with beaver, which harvest woody riparian vegetation and dam stream channels to form ponds. In addition to local mining operations, agricultural irrigation activities (such as diversions and irrigation return flows) and grazing of livestock have also affected water quantity and quality in this area (Platts and Martin 1978).

4.0 TMDL REGULATORY BACKGROUND

In Idaho, beneficial use is determined through an assessment of the biological integrity of a waterbody, coupled with a comparison of observed water quality data with enforceable water quality standards (WQS). Waterbodies that do not meet, or are not expected to meet, the WQS after implementation of technology-based controls are considered water quality-limited waterbodies. Such waterbodies require further analysis performed under a TMDL process. This section provides background of TMDLs at the federal level and discusses the TMDL process and WQS in Idaho.

4.1 TMDL BACKGROUND AT FEDERAL LEVEL

In 1972, Congress passed the Federal Water Pollution Control Act, commonly known as the Clean Water Act (CWA). The Water Quality Planning and Management Regulation (Title 40 of Code of Federal Regulations [40 CFR] 130) links a number of CWA sections, including Section 303(d) to form a water quality-based approach to protecting and cleaning up the nation's waters. The approach emphasizes the overall quality of water within a waterbody and provides a mechanism through which the amount of pollution entering a waterbody is controlled based on the intrinsic conditions of that body and the WQS set to protect it (EPA 1991).

The water quality approach begins with the determination and prioritization of water quality-limited waters. An implementation plan to manage the excess pollutants in each waterbody can then be developed. The necessary reductions of pollutant loads to the waterbody are determined with a margin of safety through the development of a TMDL under Section 303(d).

4.2 THE TMDL PROCESS IN IDAHO

Section 303 of the CWA requires IDEQ to adopt, with EPA approval, WQS and review those standards every 3 years. Additionally, IDEQ must monitor waters to identify those that do not meet WQS. For those waterbodies not meeting WQS, the IDEQ must establish a TMDL for each pollutant impairing the waterbodies (Grafe et al. 2000). Section 303(d) requires IDEQ to issue a list of impaired waters, commonly known as the 303(d) list, every two years. This list describes waterbodies not meeting WQS with respect to their designated beneficial uses. Waterbodies on the list require further analysis performed under a TMDL process.

In 1997, as means for dismissal of a lawsuit filed by the Idaho Sporting Congress and the Idaho Conservation League against EPA, IDEQ negotiated and enacted an 8-year TMDL Development

Schedule for water quality-limited waters in Idaho. The schedule was established around a subbasin-by-subbasin approach for assessing and developing loading analyses for all 303(d)-listed waterbodies in 42 high-priority subbasins. Subbasins are delineated based on 4th field, 8-digit, USGS hydrologic cataloging units (HUCs).

The TMDL process in Idaho has three basic steps: (1) subbasin assessment, (2) loading analysis, and (3) implementation plan(s). These steps reflect a logical sequence of assessment, analysis, and planning. Results of the first two steps constitute the TMDL document that IDEQ submits to EPA. The subbasin assessment, which is not required by the CWA, is written to ensure that impairment listings are accurate for development of a TMDL (Grafe et al. 2000). The subbasin assessment report describes the affected area, the water quality concerns and status of beneficial uses of individual water bodies, nature and location of pollution sources, and a summary of past and ongoing pollution control activities. This may be a separate document or combined with the loading analysis. The loading analysis constitutes the TMDL required by the CWA and provides an estimate of a waterbody's pollutant loading capacity, a margin of safety, and allocations of load to pollutant sources defined as the TMDL in EPA regulations 40 CFR 130.2 (IDEQ 1999). Implementation plans are not required as part of the current, 8-year TMDL schedule in Idaho.

Further information on the TMDL process in Idaho is available in Idaho Administrative Code, Idaho Administrative Procedures Act, chapter 58.01.02, "Water Quality Standards and Wastewater Treatment Requirements." (For brevity, future references to subparts within chapter 58.01.02 are abbreviated WQS § XXX where XXX is the subpart. For example, "subpart 58.01.02.200" is abbreviated WQS § 200.) WQS § 54 addresses water quality-limited waters and TMDLs. WQS § 100 describes the types of designated beneficial uses for which surface waters in Idaho are to be protected. Further information is also found in IDEQ's report, "State of Idaho Guidance for Development of Total Maximum Daily Loads" (IDEQ 1999), which discusses the lawsuit mentioned previously; the State's 8-year TMDL schedule; the subbasin assessment and loading analysis approach; and the development of work plans, assistance of other agencies, and public involvement. Also, in "Water Body Assessment Guidance, Second Edition," Grafe et al. (2000) describe IDEQ methods used to evaluate data and determine beneficial use support of Idaho waterbodies.

The following subsections discuss applicable beneficial uses, 303(d) listings, and WQS of the three baseline study watersheds.

4.2.1 Beneficial Uses

The State of Idaho legislature designates beneficial uses for waterbodies in the state. WQS §§ 110 through 160 describe uses for all Idaho subbasins or HUCs. Industrial water supply, wildlife habitat, and aesthetics are beneficial uses designated for all perennial waterbodies in the state. Aquatic life, recreation, and domestic water supply uses are applied on a waterbody-specific basis. If a perennial tributary within a subbasin is not specifically identified by the regulations, cold-water aquatic life and secondary contact recreation are assigned as default uses when waterbodies are assessed (Grafe et al. 2000). Another key provision is that beneficial use designations for any waterbody (such as a stream or stream segment) apply to all perennial tributaries to that waterbody. For example, if a stream or stream segment is designated to support salmonid spawning uses, then all perennially flowing tributaries, regardless of stream order, are also designated to support salmonid spawning.

IDEQ's Beneficial Use Reconnaissance Program (BURP) is aimed at integrating biological monitoring with physical habitat assessment to characterize stream integrity and the quality of Idaho's waters (Clark 2001). The purpose of BURP is to assist in determining the existing uses and beneficial use support status of those waters. BURP is the ambient monitoring strategy for the State at this time (Clark 2001). The program incorporates protocols for monitoring physical habitat and macroinvertebrates developed by Idaho State University and IDEQ with protocols provided by the EPA in the "Rapid Bioassessment Protocols for Use in Streams and Rivers: Benthic Macroinvertebrates and Fish" (Plafkin et al. 1989).

The Blackfoot River, from the confluence of Lanes and Diamond creeks to the Blackfoot Reservoir (Unit US-10 of HUC 17040207), is designated to support aquatic life, primary contact recreation, and drinking water as well as other uses. Aquatic life uses include both cold water and salmonid spawning. Cold-water aquatic life and secondary contact recreation uses apply to all perennial tributaries to the Blackfoot River upstream of Blackfoot Reservoir. Beneficial uses of perennial tributaries within the Salt River subbasin (HUC 17040105) include cold-water aquatic life and secondary contact recreation. Beneficial uses within the Middle Bear Lake (Bear) subbasin (HUC 16010201) include cold-water and salmonid spawning aquatic life, primary and secondary contact recreation, and drinking water.

4.2.2 Idaho 303(d) List and Blackfoot River Subbasin Assessment/TMDL

Streams from each of the three study watersheds are listed on the State of Idaho's 1998 303(d) list. The streams and respective pollutants for which they are listed are presented in Table 2. Only one stream in Table 2, Meadow Creek in the Bear watershed, is listed for metals; however, it was not included under TtEMI's 2001 monitoring program, and IDEQ has not been able to verify the reason for its initial listing.

TABLE 2
STUDY AREA STREAMS ON 1998 IDAHO 303(d) LIST

| Watershed | HUC | Segment | Name | Boundaries | Nutrients | Organics | Sediment | Metals | Unknown |
|-----------|----------|---------|------------------|---|-----------|----------|----------|--------|---------|
| Blackfoot | 17040207 | 2313 | Angus Creek | Headwaters to Blackfoot River | | | X | | |
| Blackfoot | 17040207 | 2316 | Bacon Creek | U.S. Forest Service boundary to Lanes Creek | | | X | | |
| Blackfoot | 17040207 | 2303 | Blackfoot River | Blackfoot Dam to Wolverine Creek | X | | X | | |
| Blackfoot | 17040207 | 2305 | Blackfoot River | Headwaters to Blackfoot River | | X | X | | |
| Blackfoot | 17040207 | 6302 | Blackfoot River | Headwaters to Blackfoot River | X | | X | | |
| Blackfoot | 17040207 | 5267 | Brush Creek | Headwaters to Blackfoot River | | | | | X |
| Blackfoot | 17040207 | 2309 | Corral Creek | Headwaters to Blackfoot River | | | X | | |
| Blackfoot | 17040207 | 2315 | Diamond Creek | Headwaters to Blackfoot River | | | X | | |
| Blackfoot | 17040207 | 2314 | Dry Valley Creek | Headwaters to Blackfoot River | | | X | | |
| Blackfoot | 17040207 | 5268 | Grizzly Creek | Headwaters to Corral Creek | | | | | X |

TABLE 2 (CONTINUED)
STUDY AREA STREAMS ON 1998 IDAHO 303(d) LIST

| Watershed | HUC | Segment | Name | Boundaries | Nutrients | Organics | Sediment | Metals | Unknown |
|-------------|----------|---------|---------------------|--|-----------|----------|----------|--------|---------|
| Blackfoot | 17040207 | 2320 | Lanes Creek | Headwaters to Blackfoot River | | | X | | |
| Blackfoot | 17040207 | 5269 | Maybe Creek | Maybe Canyon waste dump to Dry Valley Creek | | | | | X |
| Blackfoot | 17040207 | 2310 | Meadow Creek | Headwaters to Blackfoot Reservoir | | | X | | |
| Blackfoot | 17040207 | 2321 | Sheep Creek | Headwaters to Lanes Creek | | | X | | |
| Blackfoot | 17040207 | 2312 | Slug Creek | Headwaters to Blackfoot River | | | X | | |
| Blackfoot | 17040207 | 2311 | Trail Creek | Headwaters to Blackfoot River | | | X | | |
| Blackfoot | 17040207 | 2306 | Wolverine Creek | Headwaters to Blackfoot River | X | | X | | |
| Middle Bear | 16010201 | 2252 | Alexander Reservoir | Reservoir boundary | | | X | | |
| Middle Bear | 16010201 | 2253 | Bear River | Wardboro to Alexander Reservoir | X | | X | | |
| Middle Bear | 16010201 | 2259 | Co-Op Creek | U.S. Forest Service boundary to Stauffer Creek | X | | X | | |

TABLE 2 (CONTINUED)
STUDY AREA STREAMS ON 1998 IDAHO 303(d) LIST

| Watershed | HUC | Segment | Name | Boundaries | Nutrients | Organics | Sediment | Metals | Unknown |
|-------------|----------|---------|---------------------|--|-----------|----------|----------|--------|---------|
| Middle Bear | 16010201 | 5121 | Meadow Creek | Headwaters to North Creek | | | X | X | |
| Middle Bear | 16010201 | 5251 | North Creek | Unnamed tributary 3.2 kilometers below Mill Hollow to Ovid Creek | | | | | X |
| Middle Bear | 16010201 | 2261 | Ovid Creek | Confluence of North and Mill Creeks to Bear River | | | X | | |
| Middle Bear | 16010201 | 2257 | Pearl Creek | North Fork Pearl Creek to Bear River | X | | X | | |
| Middle Bear | 16010201 | 2268 | Saint Charles Creek | Lower Idaho Department of Lands boundary to Refuge | X | | X | | |
| Middle Bear | 16010201 | 2265 | Snowside Canyon | Headwaters to Montpelier Creek | | | X | | |
| Salt | 17040105 | 5266 | Boulder Creek | Headwaters to Stump Creek | | | | | X |

Notes:

HUC USGS hydrologic cataloging unit number

Maybe Creek, in the Blackfoot watershed, is listed for unknown pollutants. Previous investigations by Mariah and MW have demonstrated excessive levels of selenium and other metals in Maybe Creek (A. A. Rich and Associates 1999). In 1998, the FS decided that the South Maybe Canyon Mine, which contributes runoff to Maybe Creek, fell under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) rules (personal communication, Jeff Jones, Caribou National Forest, cited in IDEQ 2001). An ongoing non-time critical removal action is expected to determine the pollutants contributing to exceedances of WQS and potential impairment of beneficial uses (IDEQ 2001). Maybe Creek was not included under TtEMI's 2001 baseline monitoring program. However, Maybe Creek was sampled in July 2001 as part of TtEMI's human health and ecological risk assessment-specific monitoring program.

The Blackfoot subbasin is considered a high-priority watershed for TMDL development. In 2001, IDEQ released the report, "Blackfoot River TMDL—Waterbody Assessment and Total Maximum Daily Load" (IDEQ 2001). The report presents results from IDEQ's subbasin assessment and loading analyses for the entire Blackfoot subbasin. IDEQ presents results of loading analyses for sediment and nutrients only. The subbasin assessment briefly documents reports of metals in the Blackfoot subbasin by Platts and Martin (1978) and A.A. Rich and Associates (1999). The Maybe Canyon CERCLA action and monitoring events scheduled for 2001 under the area-wide effort are also discussed briefly in the report.

4.2.3 Water Quality Standards

A WQS links a beneficial use with criteria for protection of that use (Grafe et al. 2000). Criteria are expressed as numeric values or narrative statements. Only numeric criteria expressed for the protection of aquatic life uses are discussed in this report. Numeric criteria are typically expressed as single-value concentrations that, if exceeded, may have negative consequences for fish and other aquatic life. In the case of selenium and metals, criteria represent toxicity thresholds for sensitive species established by scientific research. Criteria are estimates only and may or may not ensure protection for all specified beneficial uses. For example, the chronic criterion for selenium is 5.0 micrograms per liter ($\mu\text{g/L}$). Both IDEQ and EPA use this criterion; however, other opinions differ. For example, Lemly and Smith (1987) conclude that selenium concentrations as low as 2 $\mu\text{g/L}$ can be bioconcentrated in food chains and cause toxicity and reproductive failure in fish.

IDEQ has primary responsibility for setting, reviewing, revising, and enforcing WQS. Numeric criteria generally consist of three components (Grafe et al. 2000):

- Magnitude – the amount of a pollutant, expressed as a concentration, that is allowable.
- Duration – the period of time (averaging period) over which the in-stream concentration is averaged for comparison with criteria concentrations. This specification limits the duration of concentrations above the criteria.
- Frequency – the number of times an event occurs over a fixed time interval.

Typically, numeric criteria for toxics are expressed in terms of chronic and acute exposure, with each having a specific concentration over an averaging period that is not to be exceeded. The frequency component of a numeric criterion describes the number of times an exceedance must occur to constitute a water quality violation. WQS § 210 provides numeric criteria for toxic substances in waters designated for aquatic life, recreation, or domestic water supply use. The regulations defer to the National Toxics Rule (NTR) (40 CFR 131.36 b[1]) with exceptions that are provided in WQS § 210.02.

A Criteria Continuous Concentration (CCC) is defined as the highest concentration of a pollutant to which aquatic life can be exposed for an extended period of time (4 days) without deleterious effects. The CCC accounts for chronic exposure to a toxic pollutant. A violation occurs if the CCC is exceeded in a stream or stream segment two or more times in 3 years. A Criteria Maximum Concentration (CMC) is the highest concentration of a pollutant to which aquatic life can be exposed for a short period of time without deleterious effects. The CMC accounts for acute exposure to a toxic pollutant. According to the regulations, the averaging period for a CMC is 1 hour; however, no numbers of sample frequency or intervals for determining the 1-hour average concentration are specified in the WQS. Instantaneous grab samples are assumed to be reasonably representative of 1-hour average concentrations and, thus, may be used to evaluate CMC exceedances. A violation occurs if the CMC is exceeded two or more times in a 3-year period. The CMC will always be greater than or equal to the CCC. For certain pollutants, such as silver, only CMCs are provided by the regulations (Idaho WQS § 003.02, § 003.14, and § 210; 40 CFR 131.36).

Idaho CCCs and CMCs for all NTR pollutants except selenium apply to the dissolved phase only. The Idaho CCC and CMC for selenium apply to total (unfiltered) selenium. The dissolved phase represents water and constituents that pass through a 0.45-micron filter. Numeric criteria for toxic constituents vary in how they are determined. Any one criterion can be dependent upon any or all of the following: water

hardness, the dissolved conversion factor (CF), and the water effect ratio (WER). Hardness is typically expressed as milligrams of calcium carbonate per liter (mg CaCO₃/L). Hardness is important because it influences the toxicity of certain metals to aquatic life. The CF is a fixed constant or a hardness-dependent variable. The WER is expressed as a specific pollutant's acute or chronic toxicity value measured in water from the site covered by the standard, divided by the respective acute or chronic toxicity value in laboratory dilution water. Table 3 presents aquatic life criteria for selenium and other regulated metals included in the 2001 monitoring program. For this study, calculation of WER-dependent criteria assumes a WER of 1.0. CCCs and CMCs for arsenic, hexavalent chromium, mercury, and selenium are fixed. Criteria for all other toxics vary as a function of hardness and CF and are represented in Table 3 by equations provided by WQS § 210.

TABLE 3
IDAHO NUMERIC CRITERIA FOR REGULATED METALS UNDER 2001 MONITORING PROGRAM

| Pollutant | CMC Conversion Factor | CCC Conversion Factor | CMC ($\mu\text{g/L}$) | CCC ($\mu\text{g/L}$) |
|----------------|--------------------------------|--------------------------------|--|--|
| Arsenic | 1.0 | 1.0 | 360 | 190 |
| Cadmium | $1.136675 - (\ln[H]*0.041838)$ | $1.101672 - (\ln[H]*0.041838)$ | $e^{(1.128*\ln[H]-3.828)*\text{CMC CF}}$ | $e^{(0.7852*\ln[H]-3.49)*\text{CCC CF}}$ |
| Chromium (III) | 0.316 | 0.860 | $e^{(0.819*\ln[H]+3.688)*\text{CMC CF}}$ | $e^{(0.819*\ln[H]+1.561)*\text{CCF CF}}$ |
| Chromium (VI) | 1.0 | 1.0 | 15.0 | 11.0 |
| Copper | 0.96 | 0.96 | $e^{(0.9422*\ln[H]-1.464)*\text{CMC CF}}$ | $e^{(808545*\ln[H]-1.465)*\text{CCC CF}}$ |
| Lead | $1.46203 - (\ln[H]*0.145712)$ | $1.46203 - (\ln[H]*0.145712)$ | $e^{(1.273*\ln[H]-1.46)*\text{CMC CF}}$ | $e^{(1.273*\ln[H]-4.705)*\text{CCC CF}}$ |
| Mercury | 1.0 | 1.0 | 2.10 | 0.012 |
| Nickel | 0.998 | 0.997 | $e^{(0.846*\ln[H]+3.3612)*\text{CMC CF}}$ | $e^{(0.846*\ln[H]+1.1645)*\text{CCC CF}}$ |
| Selenium | 1.0 | 1.0 | 20.0 | 5.00 |
| Silver | 0.85 | NA | $e^{(1.72*\ln[H]-6.52)*\text{CMC CF}}$ | NA |
| Zinc | 0.978 | 0.986 | $e^{(0.8473*\ln[H]+0.8604)*\text{CMC CF}}$ | $e^{(0.8473*\ln[H]+0.7614)*\text{CCC CF}}$ |

Notes: III Trivalent
 VI Hexavalent
 $\mu\text{g/L}$ Micrograms per liter
 CCC Criteria continuous concentration
 CF Conversion factor
 CMC Criteria maximum concentration
 H Hardness (milligrams of calcium carbonate per liter)
 NA Not applicable

5.0 METHODS

This section discusses the selection of monitoring stations for the 2001 baseline monitoring events, development of sampling work plans, field sampling and parameter measurement methods, stream flow measurement methods, and laboratory analytical methods.

5.1 MONITORING STATION SELECTION

TtEMI worked with IDEQ to identify stations to be sampled during the 2001 monitoring events. Originally, 40 monitoring stations were proposed that bracketed upstream and downstream conditions associated with mining disturbances, background or reference conditions, and major tributaries in the areas of interest. Streams or stream reaches that do not receive runoff from historical or current mining activity were assumed to represent background conditions. Where possible and appropriate, established stations previously sampled by the IMA as part of the area-wide investigation were selected. All proposed monitoring stations were located on streams that, during normal precipitation years, are perennial and designated to support aquatic life beneficial uses.

During early Spring 2001, TtEMI and IDEQ personnel performed field reconnaissance of proposed monitoring stations to evaluate accessibility, suitability for sampling and flow measurement, and other logistical considerations. The selected stations were staked out, flagged, and photographed. Global Positioning System (GPS) coordinates of monitoring stations were recorded.

The final list of baseline monitoring stations for 2001 consisted of 31 stations. Table 4 lists all stations by watershed and indicates whether the stations represent background (BG) or mining-impacted (IMP) conditions. Of the 31 stations, nine represented background conditions, and the remaining 22 were downstream of mining activity and assumed to represent impacted conditions. For the purposes of this report, background stations are assumed to represent a range of possible pre-mining conditions. Impacted stations, on the other hand, are assumed to represent the range of conditions likely to exist downstream of historic or current mining activity.

5.2 WORK PLAN DEVELOPMENT

Prior to sampling, TtEMI prepared a sampling and analysis plan (SAP) that included a field sampling plan (FSP), quality assurance project plan (QAPP), and health and safety plan (HSP) (TtEMI 2001d). The sampling regimen described in the SAP was predicated on balancing scientific vigor, defensibility, and costs. The FSP describes the sampling objectives and methods; quantity and type of samples to be

TABLE 4
MONITORING STATIONS FOR 2001 BASELINE MONITORING

| Station Identification | Station Name | Watershed | Status |
|------------------------|---|-----------|--------|
| LBFTT001 | Little Blackfoot River | Blackfoot | IMP |
| SLCTT002 | Stateland Creek | Blackfoot | IMP |
| TRATT003 | Trail Creek near mouth | Blackfoot | IMP |
| CALTT004 | Caldwell Creek | Blackfoot | BG |
| SLUTT005 | Slug Creek at U.S. Forest Service boundary | Blackfoot | BG |
| GHCTT006 | Goodheart Creek | Blackfoot | IMP |
| WVCTT007 | Wooley Valley Creek at Blackfoot River Road | Blackfoot | IMP |
| BFDTT008 | Blackfoot River above Dry Valley Creek | Blackfoot | IMP |
| BFNTT009 | Blackfoot River above Narrows | Blackfoot | IMP |
| ANGTT010 | Angus Creek (mouth) | Blackfoot | IMP |
| MACTT011 | Middle Angus Creek | Blackfoot | IMP |
| NNBTT012 | No Name Creek below mining | Blackfoot | IMP |
| NNATT013 | No Name Creek above mining | Blackfoot | BG |
| RASTT014 | Rasmussen Creek above Angus Creek | Blackfoot | IMP |
| BFUTT015 | Blackfoot River at upper bridge | Blackfoot | IMP |
| SPRTT016 | Spring Creek (mouth) | Blackfoot | IMP |
| EMCTT017 | East Mill Creek above split | Blackfoot | IMP |
| DIATT018 | Diamond Creek at U.S. Forest Service boundary | Blackfoot | BG |
| SHETT019 | Sheep Creek | Blackfoot | BG |
| SMBTT020 | Smoky Creek below mining | Salt | IMP |
| SMATT021 | Smoky Creek above mining | Salt | BG |
| SSBTT022 | South Fork Sage Creek below mining | Salt | IMP |
| SCATT024 | Sage Creek above mining | Salt | BG |
| SCBTT025 | Sage Creek below mining | Salt | IMP |
| SCMTT026 | Sage Creek near mouth | Salt | IMP |
| SCPTT027 | Sage Creek below Pole Creek | Salt | IMP |
| DCMTT028 | Deer Creek (mouth) | Salt | IMP |
| CCATT029 | Crow Creek above Deer Creek | Salt | BG |
| MCATT030 | Montpelier Creek above mining | Bear | BG |
| MCBTT031 | Montpelier Creek below mining | Bear | IMP |
| GTCTT032 | Georgetown Creek | Bear | IMP |

Notes:

BG Background
IMP Mining-impacted

collected; decontamination procedures; and sample documentation, handling, and shipping procedures. The QAPP describes procedures to ensure that the data generated during field activities were accurate, complete, and representative of actual field conditions. The QAPP also presents the project data quality objectives (DQO) developed through the seven-step DQO process (EPA 2000), in accordance with EPA guidance for the preparation of QAPPs (EPA 1998). The HSP describes procedures for protection of personnel and the environment during all field activities.

5.3 SAMPLE COLLECTION PROCEDURES

The following sections describe specific sampling methods and procedures followed during collection of surface water samples.

5.3.1 Surface Water Sampling

All surface water quality samples were collected using depth-integrated, laterally averaging methods in accordance with sampling procedures outlined by USGS (1999). IDEQ provided handheld depth-integrated sampling equipment, including DH-81 suspended sediment samplers for wadeable sampling stations and a DH-95 suspended sediment sampler for sampling at bridge locations. All suspended sediment samplers were equipped with ¼-inch, Teflon-lined nozzles and 1-liter, Teflon-lined, polyethylene bottles. Depth-integrating samplers are designed for isokinetically and continuously accumulating a representative sample from a stream vertical while transiting the vertical at a uniform rate (Federal Interagency Sedimentation Project 1952).

The samples were collected according to the equal-width-increment (EWI) method prescribed by USGS (1999). A minimum of 10 verticals was used for streams greater than 5-feet wide. For streams less than 5-feet wide, as many verticals as possible were used, while maintaining a minimum spacing between verticals of 3 inches. The maximum number of verticals at any sampling station did not exceed 20.

Following the EWI method, field personnel established the transit rate at the deepest and fastest vertical in the stream cross-section and then used that transit rate to traverse all verticals. The descending and ascending transit rates were equal during the sampling traverse of each vertical and at all verticals. The equal-transit-rate method allowed a volume of water proportional to the flow in the vertical to be collected. In the event a bottle was overfilled, it was discarded, and all verticals previously sampled using that bottle were resampled.

In very shallow streams where the velocity was low enough that no, or minimal, sand is being transported as suspended sediment, an open-mouthed, 1-liter, Teflon-lined, polyethylene bottle was submerged by hand into the stream to collect the sample. The bottle's mouth was pointed upstream and held at an approximate 45-degree angle from the streambed. The bottle was then filled by moving it vertically from the water surface to the streambed and back. Care was taken to avoid touching the mouth of the bottle to the streambed.

Sample water was poured from the DH-81, DH-95, or open-mouthed sampler bottles into a polyethylene churn sample splitter. The purpose of the churn sample splitter was to composite sample water into one representative sample of the stream flow before transfer to appropriate containers supplied by the analytical laboratory. Prior to filling the churn splitter with sample water, the churn was rinsed with native water from the stream being monitored. Both filtered and unfiltered samples were collected as part of the monitoring program. Once the sample from a monitoring station was composited in the churn splitter, bottles for analyses that did not require filtration were filled first by directly pouring the sample from the churn splitter into the appropriate containers. Sample filtration was performed in situ using a reversible, variable-speed, peristaltic pump that forced the whole-water sample through tubing into a filter assembly containing a disposable 0.45-micron, high-flow filter. A clean, disposable section of Teflon-lined tubing was inserted into the peristaltic pump prior to filtration. The tubing inlet was then inserted through a hole in the churn splitter lid and into the sample water. The tubing outlet was inserted into the disposable filter. The peristaltic pump was turned on, and the filtrate was collected in appropriate containers supplied by the analytical laboratory. Prior to collection of filtered samples, a volume equivalent to three times the volume of the filter was pumped through the tubing and filter assembly and discarded. All sampling equipment was decontaminated before use at each sampling station.

5.3.2 Sample Identification

A sample-numbering scheme was developed that (1) allowed each sample to be uniquely identified and (2) provided the means for tracking a sample from collection through analysis. The numbering scheme indicated the sample type, monitoring station identification, event number, and sequential sample number (that is, first, second, or third sample collected at the station during the particular event). The unique sample number was entered on sample labels, field tracking sheets, chain-of-custody forms, and other records documenting sampling activities.

The following sample numbering system was used for this investigation:

A-B-C

where:

- A = Sample matrix (SW = surface water sample; DW = equipment rinsate sample or source water blank sample)
- B = Sampling station number (designated sampling station number; equipment rinsate samples were designated with an “X” and source water samples with a “Y”, followed by the order in which it was collected during the sampling event)
- C = Sampling event and sample sequence number

A variety of quality assurance and quality control (QA/QC) samples were also collected and submitted to the subcontractor laboratories for analysis. QA/QC samples included field duplicates, source water blanks, equipment rinsates, and samples collected for matrix spike and matrix spike duplicate (MS/MSD) analyses. The sample designation for the MS/MSD surface water samples was identical to the normal sample.

5.3.3 Sample Documentation and Custody

Documentation of sampling activities was essential to ensuring proper sample identification and recording of daily field activities. The field records and documentation control measures used during sample collection, identification, handling, and shipping included the following:

- Field logbooks
- Field sampling records
- Sample labels
- Custody seals
- Chain-of-custody records

5.3.4 Sample Shipment

All samples were packaged and labeled for shipment in compliance with current regulations. Only plastic ice chests were used for shipping samples. The procedures followed for shipping samples were based on EPA guidance regarding the conduct of field operations.

5.3.5 Decontamination

All nondisposable sampling equipment was decontaminated before and after each use. Laboratory-supplied sample containers were provided precleaned and did not require decontamination or pre-rinsing. Liquinox cleaning solutions and distilled water rinses were used for decontamination of all sampling equipment.

5.4 FIELD PARAMETER MEASUREMENT PROCEDURES

Field parameters were measured at each station during collection of surface water quality samples. Where possible, instream measurements of all field parameters were taken. Parameters measured in the field during all monitoring events included:

- pH
- Oxidation and reduction potential
- Specific conductance
- Dissolved oxygen
- Turbidity
- Temperature

The field teams used multi-function meters to measure field parameters. Instruments were calibrated using the manufacturer's recommended procedures. To obtain instream measurements, the meter probe was inserted into the thalweg of the channel. When the stream depth was less than 1.5 feet, the probe was inserted to a depth equal to one-third of the water depth measured from the water surface. When the stream depth was greater than 1.5 feet, the probe was inserted to a depth of 1 foot below the water surface. Prior to recording any measurements, the field team allowed at least 60 seconds for sensors to equilibrate with sample water. After the equilibration time had elapsed, field measurements were recorded. When instream measurements were not possible, a container was triple rinsed with sample water and then filled. The probe was inserted into the sample water, and field measurements were recorded after sensor equilibration. A series of three measurements were made at each station over the course of water sample collection. Placement of meter probes and any entry by field personnel into the stream occurred downstream from where samples were collected for laboratory analysis.

5.5 STREAM FLOW MEASUREMENT METHODS

During every sampling event, field teams measured stream flow at all sampling stations where conditions and equipment capabilities allowed. Flow measurements were conducted in accordance with the methods described in the USGS methodology described in USGS (1969). At wadeable stations, flow was measured using a handheld Marsh-McBirney Flomate 2000 velocity meter and wading rod. At non-wadeable stations with access by bridge, bridge-board flow measurement equipment was used. Flow measurement from bridges also used the Marsh-McBirney meter. IDEQ provided all flow measurement equipment.

The cross-sectional geometry of the stream at each sampling station was determined concurrently with velocity measurements. A graduated rod was used to measure cross-sectional geometry. The velocity meter was held away from the sampler's body with the opening of the meter facing upstream. The two-point method was used for measuring velocity when the stream depth was 2.5 feet or greater. When stream depth was less than 2.5 feet, the one-point method was used. If the stream width was less than 5 feet, vertical spacing widths of 0.5 foot were used. If the stream width was greater than 5 feet, a minimum of 10 verticals was used. Spacing of verticals was performed such that no subsection between any two adjacent verticals contained more than 10 percent of the total discharge. The maximum number of verticals at any sampling station was 25.

5.6 LABORATORY ANALYSES

Two analytical laboratories were used to analyze water samples collected during 2001 monitoring. The University of Idaho (U of I) Analytical Sciences Laboratory in Moscow, Idaho, performed the majority of laboratory analyses, including selenium, metals, nutrients, and other routine analyses. ACZ Laboratories, Inc. (ACZ) in Steamboat Springs, Colorado, performed laboratory analyses that the U of I laboratory was not equipped to perform. ACZ also performed laboratory analyses on split samples for QA that were either collected in the field or prepared by U of I. All sample containers were provided by the laboratories and certified to be clean. Both laboratories provided pre-preserved bottles for analysis of samples requiring preservation. All samples collected in the field were cooled to 4 degrees Celsius and shipped under chain-of-custody to the laboratories the day after sample collection occurred.

Originally, the IDEQ and TtEMI intended to have the laboratories run an expanded suite of analyses during the first monitoring event and then reduce the analytical suite for subsequent events based on expectations that particular analytes, such as trace metals, would be present at levels below method

detection limits (MDL) and hence of minimal concern from a regulatory standpoint. However, based on preliminary results and guidance from IDEQ, it was decided to maintain the same analytical suite for all 2001 monitoring events, with a few exceptions. Gross alpha and gross beta radiation analyses were run during Event 1 only. Mercury analyses were not performed on Event 2 samples due to miscommunication between U of I and TtEMI. Table 5 presents the laboratory analyses performed by the laboratories, including analytical methods and corresponding MDLs.

Laboratory analyses of selenium by hydride generation and metals by EPA 200.7 and 200.8 methods were performed on all unfiltered and filtered samples collected in the field. Analysis for hardness was performed on filtered samples. All other analyses were run on unfiltered samples only.

TABLE 5
LABORATORY ANALYSES AND ANALYTICAL METHODS FOR 2001 BASELINE MONITORING

| Analyte | University of Idaho Laboratory | | ACZ Laboratories, Inc. | | Units |
|------------------------|--------------------------------|------------------|------------------------|----------------------|-------------------------|
| | MDL | Method | MDL | Method | |
| Aluminum | 1.00 | EPA 200.8 ICP-MS | 0.50- 50.0 | EPA 200.8 ICP-MS | µg/L |
| Antimony | 2.50 | EPA 200.8 ICP-MS | 0.20 – 0.40 | EPA 200.8 ICP-MS | µg/L |
| Arsenic | 0.50 | EPA 200.8 ICP-MS | 0.50 – 1.00 | EPA 200.8 ICP-MS | µg/L |
| Barium | 10.00 | EPA 200.7 ICP | 3.00 | EPA 200.7 ICP | µg/L |
| Beryllium | 5.00 | EPA 200.7 ICP | 0.10 – 2.00 | EPA 200.8 ICP-MS | µg/L |
| Bicarbonate alkalinity | 3.00 | EPA 310.1 | 2.00 | SM 2320B | mg CaCO ₃ /L |
| Boron | 25.00 | ICP-Na-Fusion | 10.00 | EPA 200.7 ICP | µg/L |
| Cadmium | 0.13 | EPA 200.8 ICP-MS | 0.10 – 0.20 | EPA 200.8 ICP-MS | µg/L |
| Calcium | 20.00 | EPA 200.7 ICP | 200.00 | EPA 200.7 ICP | µg/L |
| Carbonate alkalinity | 3.00 | EPA 310.1 | 2.00 | SM 2320B | mg CaCO ₃ /L |
| Chloride | 100.00 | EPA 300.0 | NA | NA | µg/L |
| Chromium | 0.50 | EPA 200.8 ICP-MS | 0.10 – 0.20 | EPA 200.8 ICP-MS | µg/L |
| Copper | 0.13 | EPA 200.8 ICP-MS | 0.50 – 50.00 | EPA 200.8 ICP-MS | µg/L |
| Fluoride | 100.00 | EPA 300.0 | NA | NA | µg/L |
| Gross alpha | NA | NA | 1.20 – 3.50 | EPA 9310 | pCi/L |
| Gross beta | NA | NA | 3.80 – 5.00 | EPA 9310 | pCi/L |
| Hardness | NA | EPA 130.2 | 1.00 | SM 2340B-Calculation | mg CaCO ₃ /L |
| Hydroxide alkalinity | 3.00 | EPA 310.1 | NA | NA | mg CaCO ₃ /L |
| Iron | 10.00 | EPA 200.7 ICP | NA | NA | µg/L |
| Lead | 0.25 | EPA 200.8 ICP-MS | 0.10 – 0.20 | EPA 200.8 ICP-MS | µg/L |
| Magnesium | 5.00 | EPA 200.7 ICP | 200.00 | EPA 200.7 ICP | µg/L |
| Manganese | 2.00 | EPA 200.7 ICP | 5.00 | EPA 200.7 ICP | µg/L |
| Mercury | 0.50 | EPA 245.7 | 0.0002 – 0.0005 | EPA 1631 AF | µg/L |

TABLE 5 (CONTINUED)
LABORATORY ANALYSES AND ANALYTICAL METHODS FOR 2001 BASELINE MONITORING

| Analyte | University of Idaho Laboratory | | ACZ Laboratories, Inc. | | Units |
|------------------------|--------------------------------|------------------|------------------------|--------------------------|-------------------------|
| | MDL | Method | MDL | Method | |
| Molybdenum | 2.50 | EPA 200.8 ICP-MS | 0.10 - 0.20 | EPA 200.8 ICP-MS | µg/L |
| Nickel | 0.13 | EPA 200.8 ICP-MS | 0.20 - 0.40 | EPA 200.8 ICP-MS | µg/L |
| Nitrate-N+Nitrite-N | 100.00 | EPA 353.2 | NA | NA | µg/L |
| pH | NA | EPA 310.1 | NA | NA | NA |
| Potassium | 500.00 | EPA 200.7 ICP | 300.00 | EPA 200.7 ICP | µg/L |
| Selenium | 1.00 | ICP-HG | 1.00 - 50.00 | SM 3500-Se C, AA-Hydride | µg/L |
| Silver | 0.25 | EPA 200.8 ICP-MS | 0.05 - 0.10 | EPA 200.8 ICP-MS | µg/L |
| Sodium | 2000.00 | EPA 200.7 ICP | 300.00 | EPA 200.7 ICP | µg/L |
| Sulfate | 200.00 | EPA 300.0 | NA | NA | µg/L |
| Thallium | 2.50 | EPA 200.8 ICP-MS | 0.05 - 0.10 | EPA 200.8 ICP-MS | µg/L |
| Total alkalinity | 3.00 | EPA 310.1 | 2.00 | SM 2320B | mg CaCO ₃ /L |
| Total dissolved solids | 40.00 | EPA 160.1 | NA | NA | mg/L |
| Total organic carbon | NA | NA | 1.00 - 10.0 | EPA 415.1 Oxidation/IR | mg/L |
| Total phosphorus | 10.00 | EPA 365.4 | NA | NA | µg/L |
| Total suspended solids | 4.00 | EPA 160.2 | NA | NA | mg/L |
| Uranium | 0.10 | EPA 200.8 ICP-MS | 0.05 - 0.10 | EPA 200.8 ICP-MS | µg/L |
| Vanadium | 0.25 | EPA 200.8 ICP-MS | 0.05 - 1.00 | EPA 200.8 ICP-MS | µg/L |
| Zinc | 10.00 | EPA 200.7 ICP | 10.00 - 50.00 | EPA 200.7 ICP | µg/L |

Notes:

| | |
|--------|---|
| µg/L | Micrograms per liter |
| AA | Atomic adsorption |
| AF | Atomic fluorescence |
| EPA | U.S. Environmental Protection Agency |
| ICP | Inductively coupled plasma atomic emission spectrometer |
| ICP-HG | Inductively coupled plasma-hydride generation |

TABLE 5 (CONTINUED)

LABORATORY ANALYSES AND ANALYTICAL METHODS FOR 2001 BASELINE MONITORING

Notes (continued):

| | |
|-------------------------|--|
| ICP-MS | Inductively coupled plasma-mass spectrometer |
| IR | Infrared spectrometer |
| MDL | Method detection limit |
| mg CaCO ₃ /L | Milligrams of calcium carbonate per liter |
| Na | Sodium |
| NA | Not applicable |
| pCi/L | Picocuries per liter |
| Se | Selenium |
| SM | Standard method |

5.7 EVALUATION OF LABORATORY DATA QUALITY

Laboratory data were evaluated to assess data quality following procedures outlined in the QAPP (TtEMI 2001d). As noted earlier, the QAPP describes procedures to ensure that the data generated during field activities were accurate, complete, and representative of actual field conditions. The data evaluation included a review of the QC information in the raw data package, analytical methods, and discussions with laboratory staff. In particular, the following data from the three sampling events were evaluated:

- Check standards
- Blanks
- MS/MSD samples
- Laboratory control samples
- Standard reference material

The laboratory quality assessment was restricted to the results for selenium analyzed by hydride generation and boron, mercury, and metals analyzed by EPA 200.7 and 200.8 analytical methods.

6.0 RESULTS

This section discusses the three baseline surface water monitoring events in the three study watersheds and presents the results. The results and discussion are limited to selenium and nine other metals within the 2001 sampling and analysis program that have WQS enforced by IDEQ. Emphasis is placed on metals with observed concentrations in excess of chronic and acute numeric criteria. Surface water and sediment laboratory results are presented in Appendices A and B, respectively, and field parameter results are presented in Appendix C. In the latter part of this section, pertinent results of July 2001 TtEMI risk assessment surface water sampling, 2001 TtEMI sediment sampling, and 1998-1999 MW surface water sampling are presented and discussed.

6.1 EVENT DESCRIPTIONS

Three baseline surface water monitoring events were performed between May and September 2001. As discussed in Section 3.0, overall stream flow within the study region was well below average. By Event 2, one stream monitored during Event 1 was dry; by Event 3, three additional stations were dry. All stations sampled as part of the 2001 baseline monitoring program are shown on Figure 2. The following subsections describe the three events in more detail.

6.1.1 Event 1

Event 1 monitoring commenced on May 15, 2001, and ended on May 18, 2001. Three, two-person field teams, composed of TtEMI, IDEQ, and FS staff, performed the monitoring. Prior to Event 1, meteorological conditions were dry; however, rain fell during the night of May 14. The study region received steady rainfall through the morning of May 15. According to field notes, the rainfall had subsided in most of the study area by the afternoon of May 15; however, intermittent rain persisted in the Salt watershed area until May 16, 2001. Due to access difficulty, the station on Sage Creek below Pole Creek (SCPTT027) was not sampled. Surface water samples were collected from a total of 30 stations. Three field duplicate samples, two equipment rinsate samples, and one source water blank were also collected. The samples were submitted to the U of I and ACZ laboratories for analysis. U of I performed the full suite of analyses listed in Table 5 and ACZ performed total organic carbon (TOC) and gross alpha and beta radionuclides analyses. Following Event 1, at the request of TtEMI, U of I sent split samples from nine background stations and three impacted stations to ACZ for a reduced suite of metals analyses.

6.1.2 Event 2

Event 2 monitoring commenced on June 12, 2001, and ended on June 16, 2001. Three, two-person field teams, composed of TtEMI, IDEQ, and FS staff, performed the monitoring. According to field notes,

field teams experienced overcast conditions, with periods of rain and snow, on June 12 and 13. June 14 was partly cloudy to sunny and cool. The weather on June 15 and 16 was mostly sunny and warm. Due to dry channel conditions, the station on No Name Creek below mining activities (NNBTT012) was not sampled. Surface water samples were collected from 30 stations. Based on laboratory results from Event 1, sampling following 4-day averaging protocol was performed at three stations: East Mill Creek above the split (EMCTT017), the mouth of Spring Creek (SPRTT016), and No Name Creek above mining activities (NNATT013). Under this protocol, three samples were collected from each station during a 4-day period. Four field duplicate samples, three equipment rinsate samples, and one source water blank were collected. The samples were submitted to U of I and ACZ for analyses. U of I performed the analyses listed in Table 5, except mercury; ACZ performed TOC analyses only.

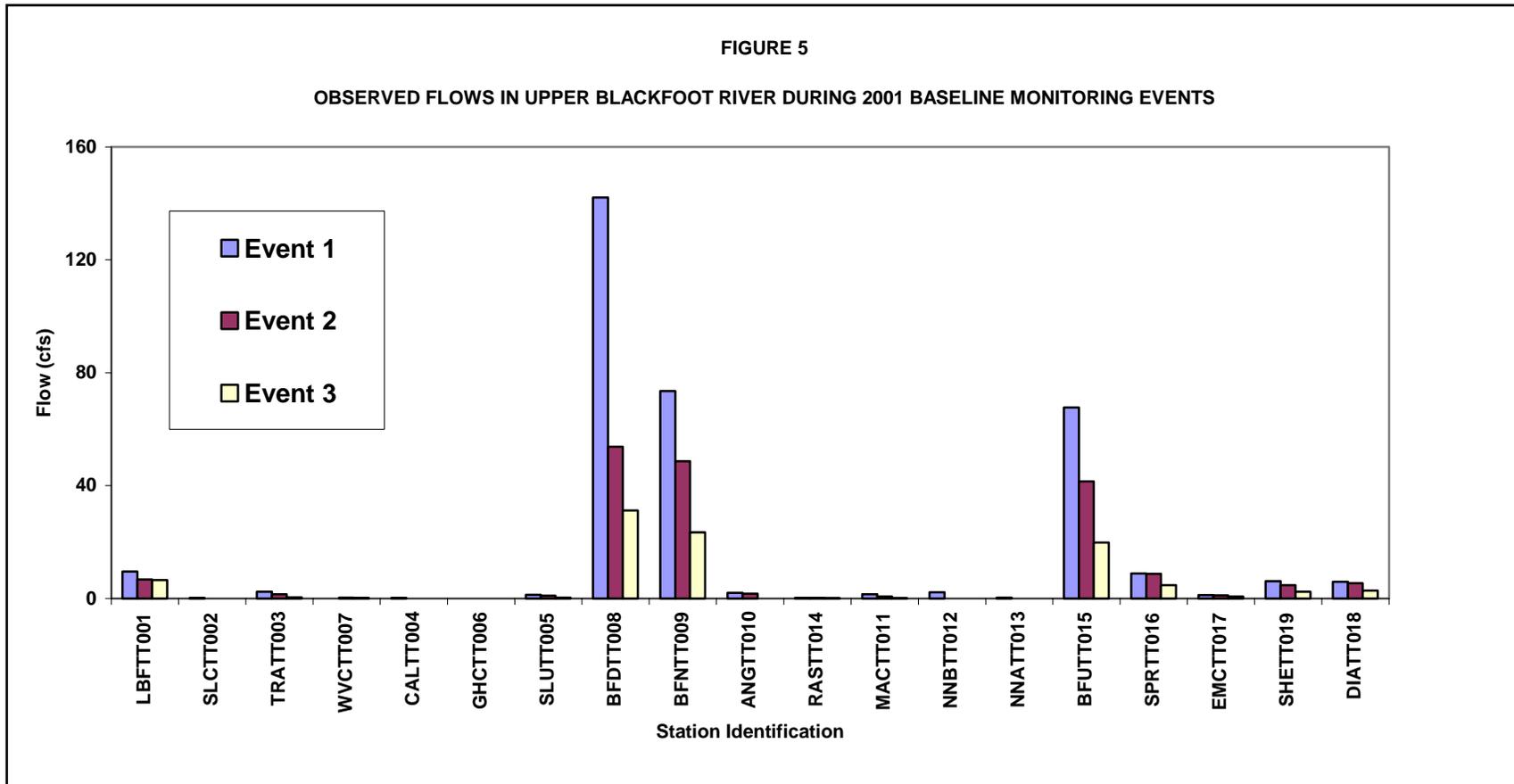
6.1.3 Event 3

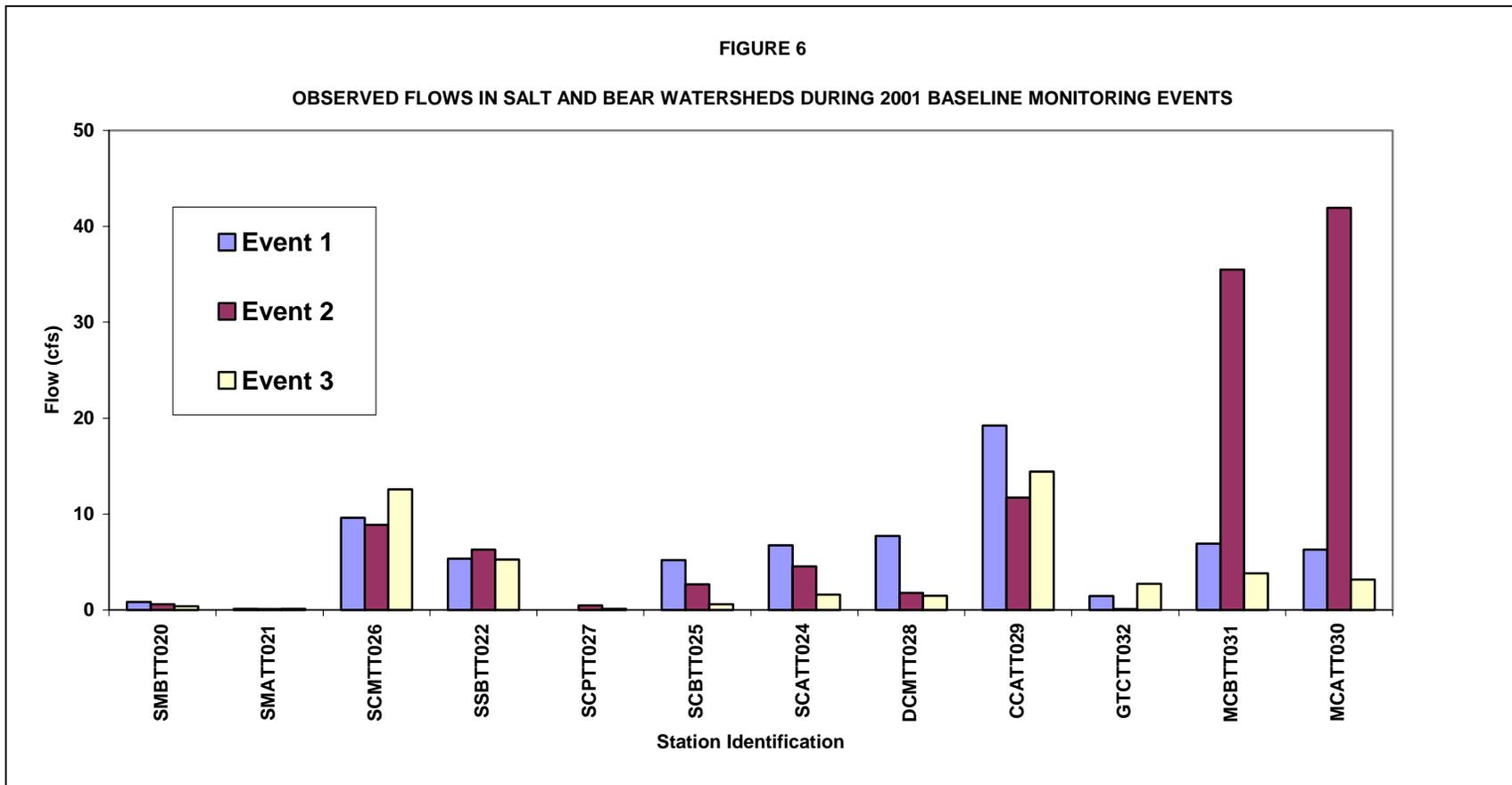
Event 3 monitoring commenced on September 18, 2001, and ended on September 21, 2001. Two, two-person field teams, composed of TtEMI, IDEQ, and FS staff, performed the monitoring. According to field notes, field teams experienced dry meteorological conditions throughout the event. NNBTT012, NNATT013, Goodheart Creek (GHCTT006), and Angus Creek (ANGTT010) were not sampled due to dry conditions or stagnant pools of water with no observable active flow. Surface water samples were collected from 27 stations. Three field duplicate samples, two equipment rinsate samples, and one source water blank were also collected. In addition, field teams collected filtered and unfiltered split samples EMCTT017, SPRTT016, and Caldwell Creek (CALTT004). The samples were submitted to the U of I and ACZ for analyses. U of I performed the analyses listed in Table 5, except for mercury; ACZ analyzed all samples for mercury and TOC. ACZ also analyzed filtered and unfiltered split samples from three stations for mercury, EPA 200.7 and 200.8 metals, and selenium.

6.2 OBSERVED FLOW TRENDS

Field teams measured stream flow at all monitoring stations where surface water samples were collected. Figures 5 and 6 show plots of observed flow by event in the upper Blackfoot and combined Salt and Bear watersheds, respectively. Monitoring stations on the X-axis of both figures are arranged from right to left in respect to their general proximity to the watershed outlet. The further upstream a station is located in the watershed, the further to the right it will be placed on the X-axis of the chart.

In general, flows at individual monitoring stations decreased over the course of 2001 monitoring. In streams on which multiple monitoring stations were located, such as the Blackfoot River and Sage Creek, observed flows tended to increase with distance downstream. Such increases are largely attributed to





inflows from tributaries and shallow groundwater discharge. Exceptions to these trends may have resulted from flow measurement error, influence of climatic conditions (such as the rain event during Event 2), flow diversions, or irrigation return-flows.

6.3 DETECTIONS AND NUMERIC CRITERIA EXCEEDANCES

This section discusses laboratory results for selenium and nine other regulated metals. With the exception of selenium and mercury, results are presented for filtered samples. Filtered samples for mercury analysis were not collected in the field. The human health and ecological risk assessment TtEMI is performing for IDEQ will address unfiltered concentrations of all metals observed during 2001.

In this section, emphasis is placed on observed exceedances of chronic and acute criteria. Exceedances were determined by comparing laboratory results with Idaho criteria. All observed data and respective criteria were compared directly, except for chromium and mercury. Dissolved total chromium observations were compared with Idaho trivalent and hexavalent chromium criteria because neither NTR nor the State of Idaho provide criteria for total chromium. Prior to commencement of 2001 monitoring, TtEMI conservatively decided to analyze for total chromium rather than the two species. The decision was based on the assumption that if the results for total chromium did not exceed criteria for either species, then there is not an issue from a regulatory standpoint. However, if the results for total chromium exceeded criteria for either species, TtEMI would recommend analyzing for both chromium species during future sampling. Observed unfiltered total mercury concentrations were compared against criteria for dissolved total mercury. TtEMI's decision not to collect filtered samples for mercury was based on the same rationale used in deciding not to collect samples for hexavalent and trivalent chromium analyses.

Table 6 tallies by event the number of background and impacted monitoring stations at which concentrations of toxics were above laboratory detection limits. Arsenic was below laboratory detection limits for samples collected from all stations during all three events. Copper, nickel, and zinc were detected at the majority of impacted and background stations during all three events. Results for other metals exhibited variation in the number of stations at which they were detected over the course of 2001 monitoring. Selenium was detected at 10 to 13 impacted stations during each event; however, it was detected at only three background stations (CALTT004, Diamond Creek at FS Boundary [DIATT018], and Crow Creek above Deer Creek [CCATT029]) during Event 3 only.

TABLE 6

2001 BASELINE MONITORING DETECTIONS AND EXCEEDANCES OF NUMERIC CRITERIA BY ANALYTE AND EVENT^a

| Station Status | ANALYTE | Event 1 | | | | Event 2 | | | | Event 3 | | | |
|----------------|----------------|---------------------|---------------------------|-------------|-------------|---------------------|---------------------------|--------------------------|-------------|---------------------|---------------------------|-------------|-------------|
| | | # IMP stations = 21 | | | | # IMP stations = 21 | | | | # IMP stations = 19 | | | |
| | | # BG stations = 9 | | | | # BG stations = 9 | | | | # BG stations = 8 | | | |
| | | # STA detected | # STA > chronic criterion | # STA > CCC | # STA > CMC | # STA detected | # STA > chronic criterion | # STA > CCC ^b | # STA > CMC | # STA detected | # STA > chronic criterion | # STA > CCC | # STA > CMC |
| IMP Stations | Arsenic | 0 | 0 | NA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | NA | 0 |
| | Cadmium | 3 | 0 | NA | 0 | 1 | 0 | 0 | 0 | 1 | 0 | NA | 0 |
| | Chromium (III) | 2 | 0 | NA | 0 | 2 | 0 | 0 | 0 | 4 | 0 | NA | 0 |
| | Chromium (VI) | 2 | 0 | NA | 0 | 2 | 0 | 0 | 0 | 4 | 0 | NA | 0 |
| | Copper | 17 | 0 | NA | 0 | 4 | 1 | 0 | 1 | 5 | 0 | NA | 0 |
| | Lead | 6 | 0 | NA | 0 | 6 | 1 | 0 | 0 | 0 | 0 | NA | 0 |
| | Mercury | 4 | 0 | NA | 0 | ND | ND | 0 | ND | 18 | 0 | NA | 0 |
| | Nickel | 15 | 0 | NA | 0 | 15 | 0 | 0 | 0 | 16 | 0 | NA | 0 |
| | Selenium | 12 | 2 | NA | 1 | 10 | 2 | 2 | 1 | 13 | 2 | NA | 1 |
| | Silver | 2 | NA | NA | 0 | 4 | NA | 0 | 1 | 0 | NA | NA | 0 |
| | Zinc | 11 | 0 | NA | 0 | 16 | 0 | 0 | 0 | 15 | 0 | NA | 0 |
| BG Stations | Arsenic | 0 | 0 | NA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | NA | 0 |
| | Cadmium | 2 | 0 | NA | 0 | 4 | 0 | 0 | 0 | 0 | 0 | NA | 0 |
| | Chromium (III) | 1 | 0 | NA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | NA | 0 |
| | Chromium (VI) | 1 | 1 | NA | 1 | 0 | 0 | 0 | 0 | 0 | 0 | NA | 0 |
| | Copper | 8 | 1 | NA | 1 | 1 | 0 | 0 | 0 | 2 | 0 | NA | 0 |
| | Lead | 2 | 1 | NA | 0 | 1 | 0 | 0 | 0 | 0 | 0 | NA | 0 |
| | Mercury | 7 | 0 | NA | 0 | ND | ND | 0 | ND | 7 | 0 | NA | 0 |
| | Nickel | 8 | 0 | NA | 0 | 7 | 0 | 0 | 0 | 5 | 0 | NA | 0 |
| | Selenium | 0 | 0 | NA | 0 | 0 | 0 | 0 | 0 | 3 | 0 | NA | 0 |
| | Silver | 0 | NA | NA | 0 | 0 | NA | 0 | 0 | 0 | NA | NA | 0 |
| | Zinc | 8 | 1 | NA | 1 | 7 | 0 | 0 | 0 | 6 | 0 | NA | 0 |

TABLE 6 (CONTINUED)

2001 BASELINE MONITORING DETECTIONS AND EXCEEDANCES OF NUMERIC CRITERIA BY ANALYTE AND EVENT

Notes:

| | |
|-----|-----------------------------------|
| # | Number of |
| > | Greater than |
| III | Trivalent |
| VI | Hexavalent |
| BG | Background |
| CCC | Criteria continuous concentration |
| CMC | Criteria maximum concentration |
| IMP | Mining-impacted |
| NA | Not applicable |
| ND | No data collected |
| STA | Monitoring station |

^aResults for all toxic concentrations apply to dissolved (unfiltered) phase, except for mercury and selenium. Event 1 and 3 mercury detections are based on results from ACZ Laboratories, Inc. analyses only. Following Event 1, University of Idaho Analytical Sciences Laboratory sent split samples from eleven (four IMP and seven BG) stations to ACZ for mercury analysis using a lower method detection limit. Samples from all Event 3 stations were sent to ACZ for mercury analyses.

^bThe 4-day averaging protocol was followed at three monitoring stations during Event 2 only, so the maximum possible number in column is "3." Laboratory results for total recoverable chromium were compared with criteria for chromium (III) and chromium (VI).

Table 6 also tallies the number of impacted and background stations where concentrations of toxics were observed to exceed Idaho criteria; however, an exceedance of an acute or chronic criterion does not necessarily constitute a water quality violation. As for chronic criteria, an exceedance of a CCC from a regulatory standpoint is constituted by the average concentration of three samples collected during a 4-day period. An exceedance of a CMC can occur based on analytical results of a one-time sample such as an instantaneous grab sample.

At impacted stations, the only toxic constituents observed to exceed their respective chronic criteria were copper, lead, and selenium. During Event 1, selenium was above the chronic criterion at stations SPRTT016 and EMCTT017. At EMCTT017, selenium was also above the CMC. During Event 2, selenium results from 4-day averaging at both of these stations were above the chronic criterion. Because the 4-day averaging protocol was used, those exceedances constitute CCC exceedances. All three samples collected during Event 2 from EMCTT017 were also above the selenium CMC. The copper exceedance during Event 2 occurred at SPRTT016 where one of the three samples exceeded the hardness-based copper CMC. The lead exceedance during Event 2 occurred at EMCTT017 where only one of the three samples was greater than the hardness-based lead chronic criterion. The silver CMC exceedance during Event 2 occurred at ANGTT010. During Event 3, the only exceedance for selenium occurred at EMCTT017 where selenium exceeded the CMC. The selenium CMC exceedances observed at EMCTT017 during all three events constitute a water quality violation.

The only background station where criteria were exceeded was NNATT013. The Event 1 hexavalent chromium, copper, lead, and zinc exceedances all occurred at NNATT013. There are reasons to support exclusion of these results from further consideration. The stream environment at NNATT013 was not consistent with conditions at other 2001 baseline monitoring stations. Station NNATT013 was situated at the outlet of a small pond and wetland feature where the stream channel is not well defined. Water quality at this station was likely influenced by geochemical conditions associated with the pond and wetland feature immediately upstream and may not be representative of geochemical conditions of perennial streams in the study area. As further rationale for excluding the results for comparison with criteria, there is evidence to suggest that Event 1 filtered and unfiltered samples from NNATT013 may have been mislabeled or switched in the field or laboratory. Filtered concentrations of analytes exceeded unfiltered concentrations outside of the range where such results could be attributed to laboratory instrument noise.

The focus of the remainder of this section is on selenium. The relatively low number of concentrations in excess of numeric criteria for the other metals does not warrant further discussion of them. The selenium exceedances observed at SPRTT016 and EMCTT017 are very important from a TMDL perspective. The following sections integrate all 2001 baseline monitoring selenium results and factor in stream selenium concentration data collected by TtEMI in July 2001, and MW in 1998 and 1999.

6.4 INTEGRATION OF ALL 2001 BASELINE SELENIUM DATA

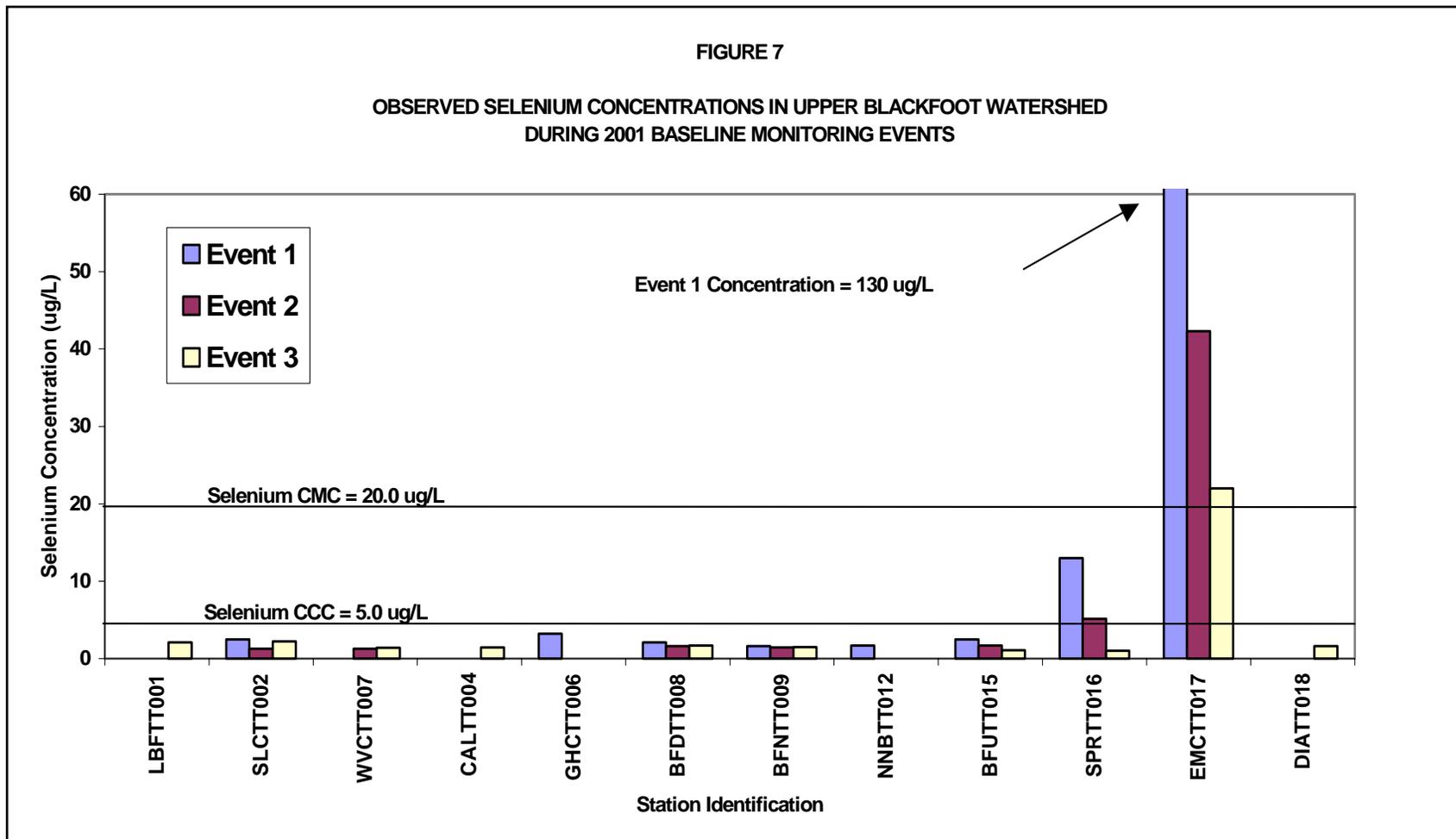
The selenium data from 2001 baseline monitoring was compiled and used to develop graphs to aid in evaluating occurrences of high selenium concentrations and loads in the study watersheds. The following subsections discuss those graphs.

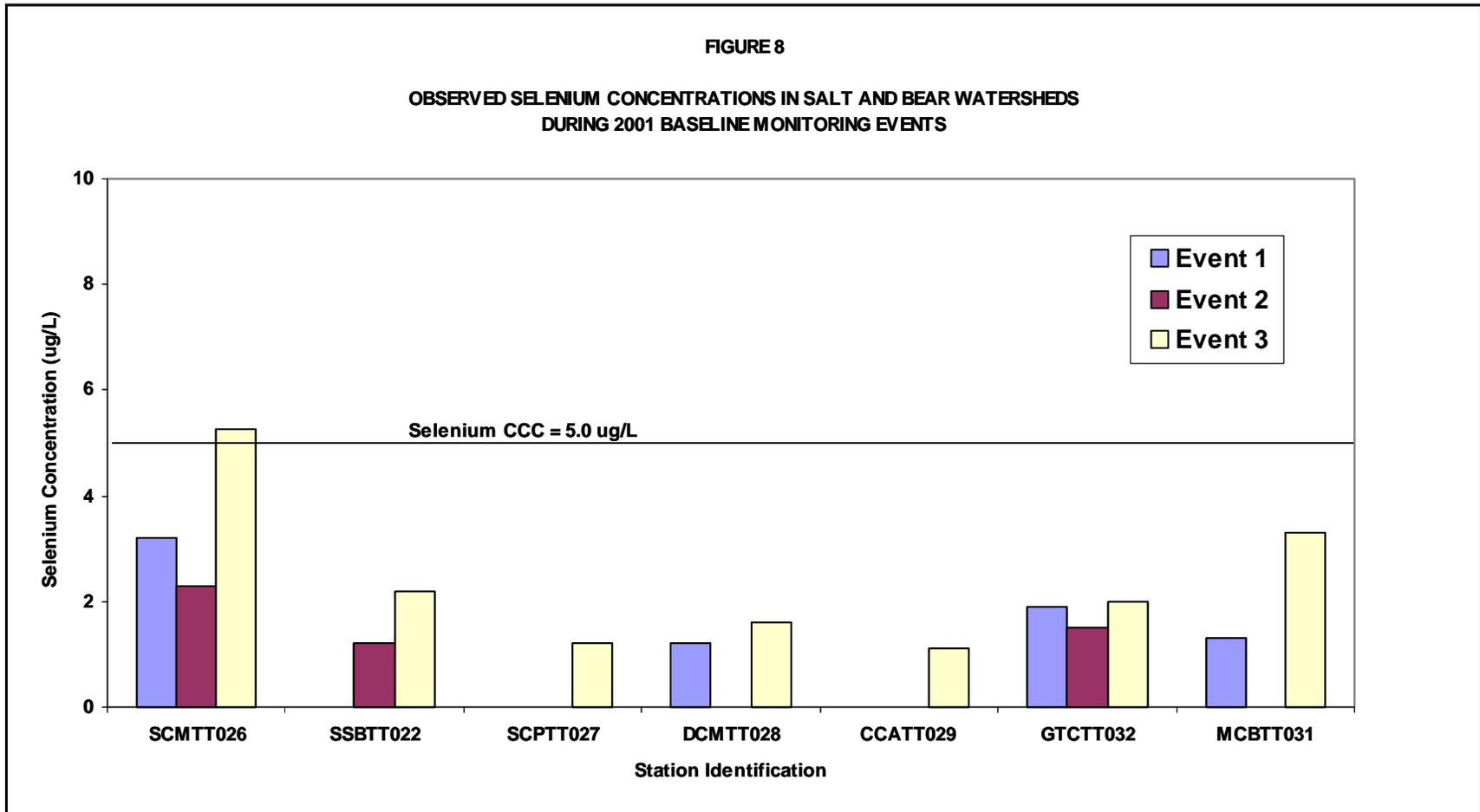
6.4.1 2001 Selenium Concentrations

Figures 7 and 8 show graphs of observed unfiltered selenium concentrations by event in the upper Blackfoot and combined Salt and Bear watersheds, respectively. Monitoring stations on the X-axis are arranged from right to left in respect to their general proximity to the watershed outlet. In cases where field duplicates or 4-day averaging samples were collected, selenium concentrations were averaged for graphing purposes.

In the upper Blackfoot watershed, at SPRTT016 and EMCTT017, selenium concentrations decreased over the course of 2001 baseline monitoring. The same trend generally occurred at the downstream stations. Figure 7 demonstrates that selenium concentrations observed at stations in the Blackfoot River (BFUTT015, BFNTT009, and BFNTT008) were relatively similar during Events 1, 2, and 3. Monitoring stations on tributary streams having detectable selenium concentrations in 2001 include CALTT004, GHCTT006, NNBTT012, DIATT018, Wooley Valley Creek (WVCTT007), State Land Creek (SLCTT002), and Little Blackfoot River (LBFTT001).

As shown on Figure 8, selenium was detected during all three events at the station on Georgetown Creek (GTCTT032), and the station near the mouth of Sage Creek (SCMTT026). Selenium was detected at least once at SCPTT027, CCATT029, Montpelier Creek below mining activities (MCBTT031), South Fork Sage Creek below mining activities (SSBTT022), and Deer Creek (DCMTT028). During each event, of all Bear and Salt watershed stations where selenium was detected, the highest selenium concentration occurred at SCMTT026. At most stations, selenium concentrations appeared to increase over the course of 2001 monitoring.





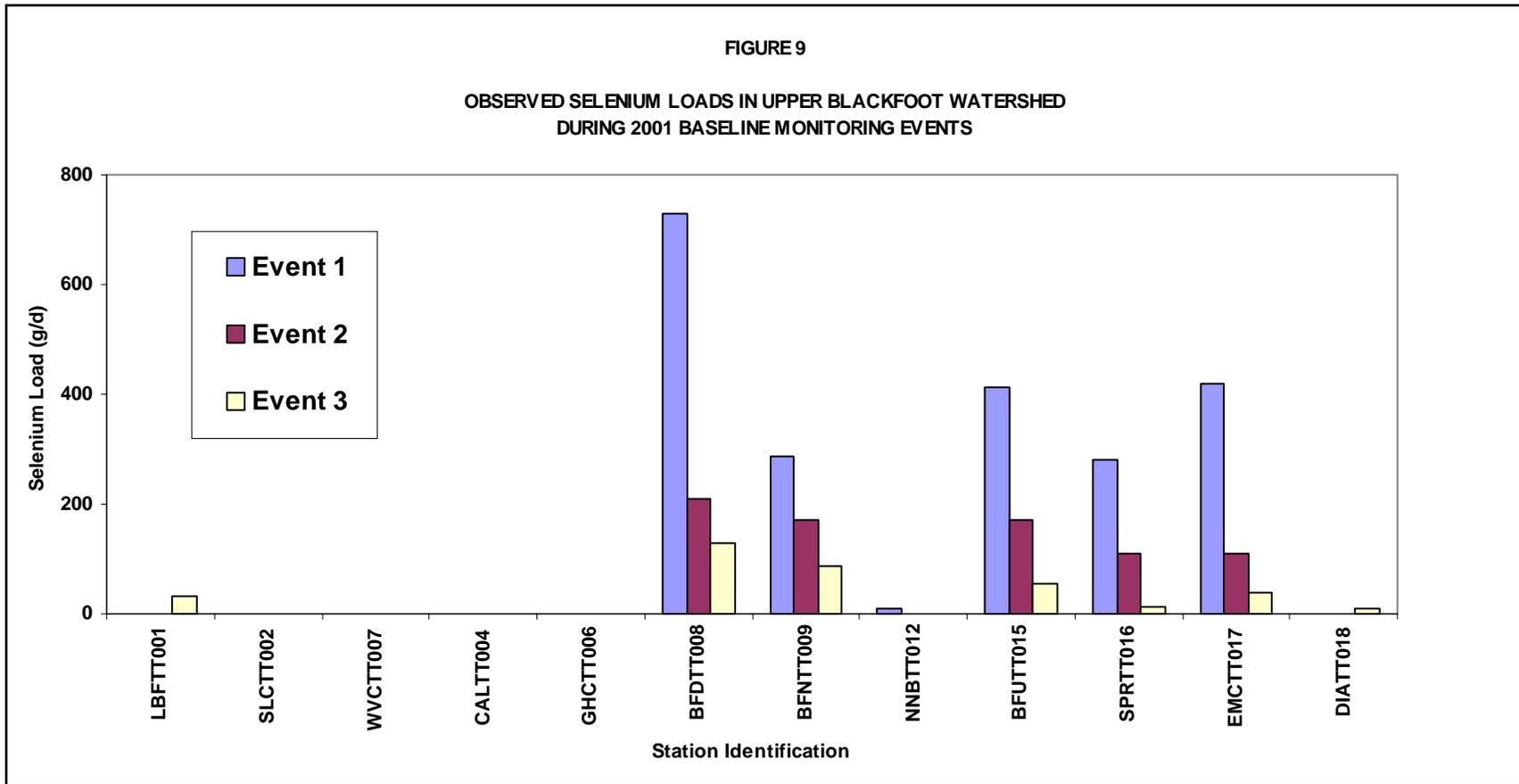
6.4.2 2001 Selenium Loads

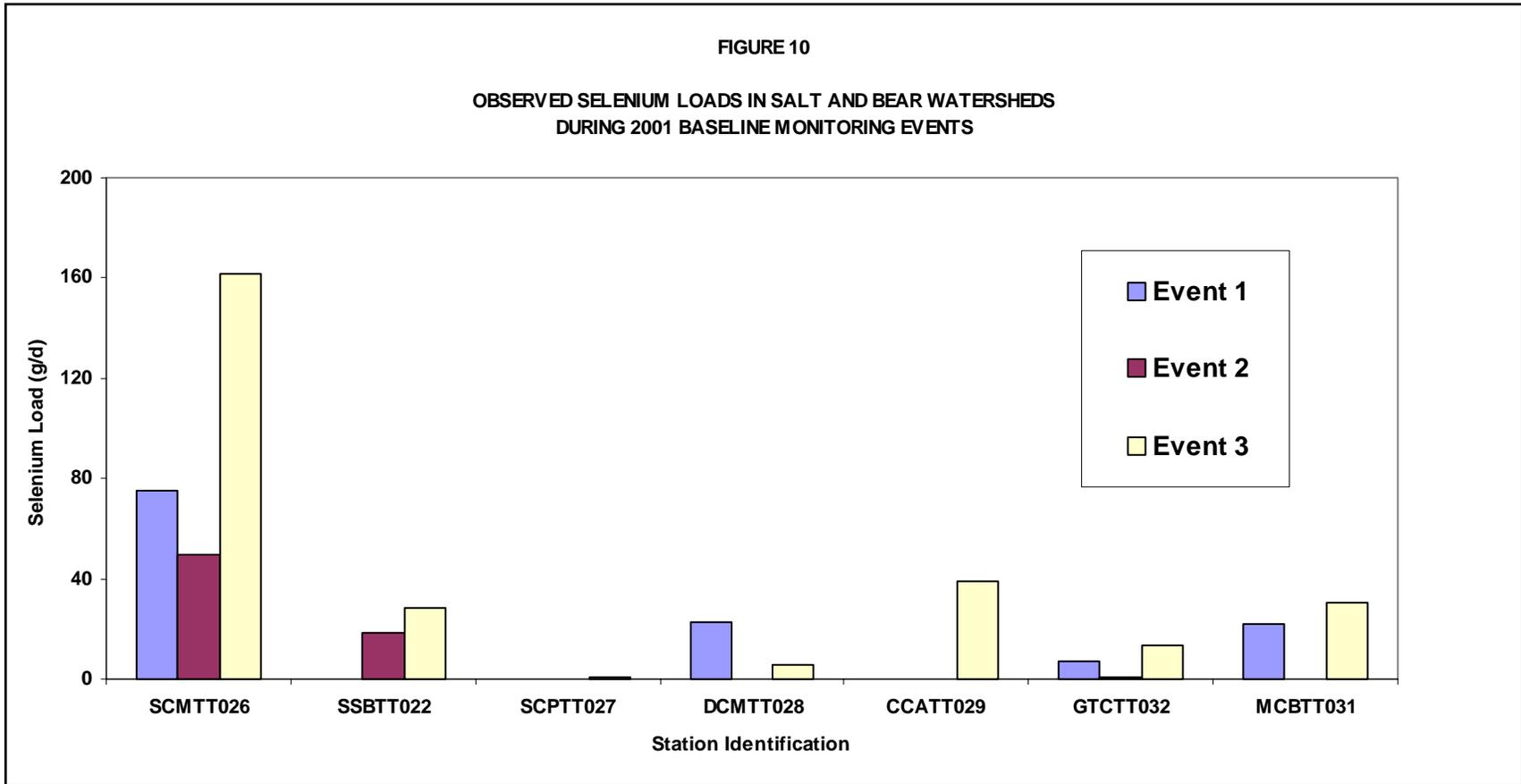
The unfiltered selenium data discussed in the previous section and presented on Figures 7 and 8 were converted to selenium loads (grams per day) by multiplying the observed concentrations by the respective flow rate and converting units. Figures 9 and 10 present observed selenium loads during 2001 monitoring in the upper Blackfoot and combined Salt and Bear watersheds, respectively. As demonstrated by these figures, observed selenium concentrations at some monitoring stations translate to nearly negligible selenium loads. At certain stations, with respect to the scale of the Y-axis on Figures 9 and 10, selenium loads are too low to be shown on the charts.

At individual stations in the upper Blackfoot watershed, selenium loads appear to decrease over the course of 2001 monitoring (Figure 9). At stations along the upper Blackfoot River, during Event 1, the observed selenium loads decrease from BFUTT015 to BFNTT009. During Event 2, observed selenium loads are comparable at BFUTT015 and BFNTT009, and during Event 3, selenium loads increase from BFUTT015 to BFNTT009. During all events, selenium loads increase from BFNTT009 to BFDTT008. East Mill Creek and Spring Creek consistently carried the highest selenium loads of all tributaries where selenium was detected. During each event, the selenium load observed in East Mill Creek at EMCTT017 was higher than the load observed at the mouth of Spring Creek at SPRTT016. East Mill Creek is a tributary to Spring Creek. During all three events, selenium loads increased between stations SPRTT016 and BFUTT015. Observed selenium loads at SPRTT016 may have accounted for approximately 20 to 70 percent of the selenium loads observed downstream in the Blackfoot River at BFUTT015.

As shown on Figure 10, selenium loads at individual Bear and Salt watershed monitoring stations suggest that selenium loads increased over the course of 2001 monitoring. During all events, the highest selenium loads occurred at SCMTT026. Selenium loads observed at SSBTT022 may have accounted for approximately 15 to 30 percent of the observed selenium load at SCMTT026.

The increases and decreases of observed selenium loads along stream reaches between monitoring stations may be indicative of in-stream selenium mobilization and demobilization processes. An example of in-stream mobilization causing an increase in selenium loading is the entrainment of particulate-phase selenium associated with sediment or other particulate matter. Increases in selenium loading could also result from contributions by unsampled tributaries or diffuse sources such as runoff or discharge of shallow groundwater. Examples of in-stream demobilization include assimilation by plants or other





aquatic life or sequestration by sediment or other particulate matter. The observed selenium load increases and decreases may also have resulted simply from natural system heterogeneity, sampling or analytical errors, or other factors causing variation such as flow diversions and irrigation. As more monitoring data are collected, these trends may become more apparent.

6.5 JULY 2001 TtEMI RISK ASSESSMENT STREAM SELENIUM DATA

In July 2001, TtEMI and IDEQ field teams collected surface water, sediment, and plant, benthic invertebrate, and fish tissue samples from five streams in the study area. The July 2001 monitoring effort was independent of Events 1, 2, and 3, and was planned and implemented to support specific data needs of TtEMI's concurrent human health and ecological risk assessments. Surface water samples were collected from eight monitoring stations, none of which overlapped with Event 1, 2, or 3 baseline monitoring stations. Additionally, two of the streams sampled in July 2001, Maybe Creek and Kendall Creek, were not sampled during Events 1, 2, and 3. Five of the eight stations were assumed to represent mining-impacted conditions and the remaining three were assumed to represent background conditions. The risk assessment-specific stations are identified in Table 7 and shown on Figure 11. Protocol for surface water sample collection was identical to protocol followed during Events 1, 2, and 3, except that unfiltered samples only were collected.

Laboratory results for selenium in surface water samples collected during July 2001 are presented in Table 7. At Maybe Creek (MCTT044), selenium exceeded the CMC. Selenium at MCTT044 was the highest concentration of selenium observed during all 2001 monitoring events. At East Mill Creek (EMCTT043) and East Mill Creek North (EMCNTT045), observed selenium concentrations also exceeded the CMC. The selenium concentrations observed at EMCTT043 and EMCNTT045 were within the range of selenium concentrations observed at EMCTT017 during Events 1, 2, and 3.

6.6 2001 TtEMI SEDIMENT SELENIUM DATA

TtEMI field teams collected samples of streambed sediment at 31 stations in the study area over the course of all 2001 monitoring events. Eight of the 31 stations comprised the risk assessment-specific stations discussed previously in Section 6.5. The remaining 23 stations corresponded to TMDL baseline-monitoring stations and were sampled over the course of Events 2 and 3. Nine of the 23 stations were background stations and 14 corresponded to impacted stations where selenium was detected in surface water samples collected during Event 1. This subsection describes the general method for collection of all sediment samples.

TABLE 7

JULY 2001 RISK ASSESSMENT MONITORING STATIONS AND OBSERVED SURFACE WATER SELENIUM RESULTS

| Station ID | Station Name | Watershed | Status | Selenium Concentration ($\mu\text{g/L}$) |
|------------|------------------------------------|-----------|--------|--|
| LSCTT040 | Lower Sage Creek | Salt | IMP | 4.0 |
| USCTT041 | Upper Sage Creek | Salt | BG | BDL |
| KCTT042 | Kendall Creek | Blackfoot | BG | BDL |
| EMCTT043 | East Mill Creek | Blackfoot | IMP | 36.0 |
| MCTT044 | Maybe Creek | Blackfoot | IMP | 1140.0 |
| EMCNTT045 | East Mill Creek North | Blackfoot | IMP | 38.0 |
| SCBETT046 | Spring Creek below East Mill Creek | Blackfoot | IMP | 3.0 |
| SCAETT047 | Spring Creek above East Mill Creek | Blackfoot | BG | 0.75 ^a |

Notes:

^a

Value represents the average selenium concentration of two samples collected at station. The selenium concentration of the first sample was 1.0 $\mu\text{g/L}$. The second sample was below the detection limit of 1.0 $\mu\text{g/L}$. A concentration of one-half the detection limit was assumed to represent the selenium concentration of the second sample.

$\mu\text{g/L}$ Micrograms per liter
 BDL Below detection limit
 BG Background
 ID Identification
 IMP Mining-impacted

Using a plastic trowel, field teams collected from three to five subsamples of surficial sediment (upper 2 to 3 centimeters) from depositional zones in close proximity to the location at which surface water samples were collected at the same station. The subsamples were composited in a glass bowl and then placed in a plastic sample container. Methods for sediment sample collection and laboratory analysis are discussed in detail in TtEMI (2001d).

Table 8 summarizes sediment selenium concentrations observed in 2001 at both background and impacted stations. Average selenium concentrations in Table 8 were calculated via two approaches. The first average concentration represents the average of all observed data, and the second average represents the average concentration of all observed data with the absolute maximum and minimum outliers removed. Overall, average sediment selenium concentrations were substantially higher at impacted stations than at background stations. In order, the three highest sediment selenium concentrations occurred at EMCNTT045 (188.0 $\mu\text{g/g}$), GHCTT006 (58.0 $\mu\text{g/g}$), and MCTT044 (29.0 $\mu\text{g/g}$).

TABLE 8
SUMMARY OF SELENIUM CONCENTRATIONS IN ALL 2001 SEDIMENT SAMPLES

| Summary Statistic | Background Stations | Impacted Stations |
|---|---------------------|-------------------|
| Number of Stations Sampled | 12 | 19 |
| Minimum Concentration ($\mu\text{g/g}$) | 0.52 | 1.10 |
| Maximum Concentration ($\mu\text{g/g}$) | 2.60 | 188 |
| Average Concentration (all data) ($\mu\text{g/g}$) | 1.21 | 18.4 |
| Average Concentration (outliers removed) ^a ($\mu\text{g/g}$) | 1.14 | 9.42 |

Notes:

^a Maximum and minimum values were removed and then averaged
 $\mu\text{g/g}$ Micrograms per gram (dry-weight basis)

6.7 INTEGRATION OF MONTGOMERY WATSON STREAM SELENIUM DATA

Between 1997 and 1999, MW collected surface water samples from streams in the Blackfoot, Salt, Bear, and Portneuf River watersheds. Results from an interim stream survey conducted in 1997 indicated concentrations of selenium in Dry Valley Creek roughly seven times greater than the CMC (A.A. Rich and Associates 1999). In Maybe Creek, a tributary to Dry Valley Creek, selenium concentrations were 23

times greater than the CMC (A. A. Rich and Associates 1999). Results from MW's 1997 interim survey are documented in MW (1998a) but are not discussed further in this report.

6.7.1 Description of 1998-1999 Montgomery Watson Stream Sampling

The MW stream-monitoring program expanded in 1998 to include a total of 57 stream monitoring stations during May and September 1998. Most stations were located in the upper Blackfoot watershed. Of those 57 stations, 15 were considered by MW to represent background conditions. In May 1999, MW collected water samples from 10 stations in the upper Blackfoot watershed only. Two of the 10 stations were then sampled monthly through August 1999. MW stream sampling procedures in 1998 and 1999 are discussed in MW's 1998 SAP (MW 1998b) and 1999 SAP (MW 1999a), respectively. The U of I laboratory performed the majority of selenium and metals analyses. Most samples collected by MW for selenium analysis were unfiltered. The use of unfiltered sample data was based on MW's assertion from 1997 monitoring that there was no significant difference in selenium concentrations comparing paired filtered and unfiltered samples. It is important to note that many of the samples had concentrations below the detection limit.

6.7.2 Comparisons of Montgomery Watson Stream Selenium Data with Regulatory Criteria

For analysis and reporting purposes, MW mathematically manipulated uncensored analytical results reported by U of I. TtEMI (2000a) reviewed the method and found that it provided little value for improving the usability of the data. IDEQ recommended that the IMA not apply these methods to the data for future submittals. For the analysis and discussion presented herein, the uncensored laboratory selenium data, as reported by U of I for unfiltered samples collected by MW in 1998 and 1999, were compiled. TtEMI evaluated the data for exceedances of regulatory criteria for selenium.

Seventeen stream monitoring stations sampled by MW in 1998 or 1999 exceeded the EPA chronic criterion (5.0 µg/L) for selenium. Of those 17 stations, seven exceeded the CMC (20.0 µg/L). Of the 17 stations, 16 represented mining-impacted stations, and one represented background conditions. For data evaluation purposes, TtEMI excluded data for the one background station (Little Blackfoot River Upstream of Reese Creek) from further analysis because the selenium concentration (230 µg/L) reported for a sample collected on May 15, 2001 is assumed to be an anomaly. Ten other samples, including five collected on May 14, 2001, were collected from the same background station, and selenium concentrations in all samples were below U of I's MDL. Uncensored laboratory results from the 16 MW mining-impacted stations that exceeded regulatory criteria are presented in Table 9. These stations are

TABLE 9

MONTGOMERY WATSON SELENIUM DATA EXCEEDING REGULATORY CRITERIA, 1998-1999

| MW Station ID | MW Station Name | MW Sample Date | Mean MW Unfiltered Selenium Concentration ($\mu\text{g/L}$) | Number of Samples Collected by MW on Sample Date | TtEMI 2001 Station Name and Station ID Near MW Station | TtEMI 2001 Range of Unfiltered Selenium Concentrations ($\mu\text{g/L}$) |
|---------------|---|----------------|---|--|--|--|
| ST019 | Blackfoot River Downstream of Ballard Creek | 5/11/98 | 6.7 | 1 | NA | NA |
| | | 5/25/99 | 9.2 | 1 | | |
| ST020 | Blackfoot River Downstream of State Land Creek | 5/11/98 | 6.8 | 1 | | |
| | | 5/25/99 | 8.1 | 1 | | |
| ST022 | Blackfoot River Downstream of Wooley Valley Creek | 5/17/98 | 5.4 | 5 | | |
| | | 5/25/99 | 11.0 | 1 | | |
| ST023 | Blackfoot River Downstream of Dry Valley Creek, FMC's BF1 | 5/13/98 | 7.2 | 1 | Blackfoot River below Dry Valley Creek (BFDTT008) | 1.6-2.1 |
| | | 5/24/99 | 8.8 | 1 | | |
| ST024 | Blackfoot River Upstream of Dry Valley Creek, FMC's BF2 | 5/24/99 | 8.3 | 1 | NA | NA |
| ST026 | Blackfoot River Upstream of Wooley Range Ridge Creek | 5/25/99 | 9.0 | 3 | Blackfoot River above Narrows (BFNTT008) | 1.0-2.0 |

TABLE 9 (CONTINUED)

MONTGOMERY WATSON SELENIUM DATA EXCEEDING REGULATORY CRITERIA, 1998-1999

| MW Station ID | MW Station Name | MW Sample Date | Mean MW Unfiltered Selenium Concentration ($\mu\text{g/L}$) | Number of Samples Collected by MW on Sample Date | TtEMI 2001 Station Name and Station ID Near MW Station | TtEMI 2001 Range of Unfiltered Selenium Concentrations ($\mu\text{g/L}$) |
|---------------|--|----------------|---|--|--|--|
| ST071 | State Land Creek Downstream of unnamed tributaries | 5/16/98 | 32.0 | 1 | State Land Creek (SLCTT002) | 1.3-2.5 |
| ST076 | Trail Creek Upstream of Blackfoot River | 5/17/98 | 8.9 | 1 | NA | NA |
| ST113 | Dry Valley Creek Upstream of Blackfoot River | 5/13/98 | 61.0 | 1 | NA | NA |
| | | 5/24/99 | 49.3 | 3 | | |
| | | 6/23/99 | 6.6 | 1 | | |
| ST145 | Spring Creek Upstream of Blackfoot River | 5/25/99 | 51.0 | 1 | Spring Creek mouth (SPRTT016) | 1.0-13.0 |
| ST150 | East Mill Creek Upstream of Spring Creek on South Fork | 5/15/98 | 280.0 | 1 | NA | NA |
| ST187 | Sage Valley Creek Downstream of Pole Canyon | 5/19/98 | 44.0 | 1 | | |
| ST196 | Georgetown Creek Downstream of Georgetown Canyon Mine | 5/15/98 | 6.5 | 1 | Georgetown Creek (GTCTT032) | 1.5-2.0 |
| ST227 | East Mill Creek At Fish Sampling Reach | 9/13/98 | 34.0 | 1 | East Mill Creek above split (EMCTT017) | 22.0-145 |

TABLE 9 (CONTINUED)

MONTGOMERY WATSON SELENIUM DATA EXCEEDING REGULATORY CRITERIA, 1998-1999

| MW Station ID | MW Station Name | MW Sample Date | Mean MW Unfiltered Selenium Concentration ($\mu\text{g/L}$) | Number of Samples Collected by MW on Sample Date | TtEMI 2001 Station Name and Station ID Near MW Station | TtEMI 2001 Range of Unfiltered Selenium Concentrations ($\mu\text{g/L}$) |
|---------------|---|----------------|---|--|--|--|
| ST229 | Blackfoot River Downstream of Spring Creek | 5/15/98 | 12.0 | 1 | Blackfoot River at upper bridge (BFUTT015) | 1.1-2.5 |
| | | 5/25/99 | 21.0 | 1 | | |
| ST232 | Blackfoot River Upstream of Blackfoot Reservoir | 5/24/99 | 7.5 | 1 | NA | NA |

Notes:

| | |
|-----------------|--|
| < | Less than |
| $\mu\text{g/L}$ | Micrograms per liter |
| ID | Identification |
| MDL | Method Detection Limit (1.0 $\mu\text{g Se/L}$) |
| MW | Montgomery Watson |
| NA | Not applicable (no station for comparison) |

also shown on Figure 11. In Table 9, if MW collected more than one sample on a particular sample date, the concentration given represents the mean concentration of all samples collected on that date. All exceedances of selenium criteria occurred during the May 1998 or May 1999 sampling events, except for one occurring in September 1998.

In Table 9, streams or stream reaches sampled by MW in 1998 or 1999 that were also sampled by TtEMI in 2001 are indicated. The corresponding ranges of 2001 unfiltered selenium data collected by TtEMI for those streams are also presented in Table 9. The 2001 TtEMI data in Table 7 is similar to 1998-1999 MW data in that it represents the analytical data as reported directly by U of I. As shown in Table 9, TtEMI sampled five streams or stream reaches in 2001 that were previously sampled by MW at which selenium concentrations were above regulatory criteria in 1998 or 1999. East Mill Creek was the only stream sampled by both MW and TtEMI that had selenium concentrations above regulatory criteria in 1998, 1999, and 2001. The relatively lower concentrations observed in 2001 are attributed to the low-flow regime in the study area resulting from below normal precipitation and runoff during Winter and Spring 2001.

Figure 11 provides a comparison of streams in the study area where exceedances of chronic selenium criteria (greater than 5.0 $\mu\text{g/L}$) occurred at least once in 1998, 1999, or 2001. One style of mapped stream buffer highlights stream reaches where such exceedances occurred according to MW's 1998 and 1999 data, and a different style highlights streams where exceedances occurred according to TtEMI and IDEQ data in 2001. The endpoints used to define each highlighted stream reach are estimates only and are based on a general understanding of study area hydrography, proximity of phosphate mining activity to downgradient monitoring stations, and overall extent of monitoring stations on individual streams. As shown on Figure 11, Georgetown Creek, Sage Creek, East Mill Creek, Spring Creek, Maybe Creek, Dry Valley Creek, Trail Creek, State Land Creek, and the Blackfoot River have demonstrated exceedances of chronic selenium criteria.

7.0 LABORATORY DATA QUALITY

The laboratory analyses were performed according to EPA acceptable methods as described in the SAP (TtEMI 2001d). Results from sampling events were evaluated to assess quality of the laboratory data. This evaluation included a review of quality control (QC) information in the raw data package, analytical methods, and discussions with the current U of I laboratory staff. In particular, the following data from the three sampling events were evaluated:

- Check standards
- Blanks
- MS/MSD samples
- Laboratory control samples
- Standard reference material

The laboratory quality assessment was restricted to selenium, boron, and other constituents analyzed using the EPA 200.7 and 200.8 methods.

7.1 CHECK STANDARDS

Check standards were consistently reported for all constituents. The check standard recoveries were generally within 95 to 100 percent. The recoveries were never outside of the QC guidance limits of 85 and 115 percent. The recoveries for check samples indicate that the instruments maintained calibration throughout the analytical runs.

7.2 BLANKS

The method blank results were generally below MDLs. With the exception of aluminum and boron, occurrences of blank samples with detectable concentrations of constituents were rare. In such cases, concentrations of the detected constituents only slightly exceeded the MDL. These exceedances are probably related to normal analytical variability, rather than significant laboratory contamination. Normal analytical variability is exacerbated by the very low detection limits that were selected for the project. Aluminum and boron tended to occur in the blanks more regularly than the other elements and at somewhat higher concentrations. The source of aluminum and boron is problematic. However, dust could be the source for aluminum in the blanks, whereas glassware was the probable source for boron. Thus, the blank results suggest that laboratory contamination was minimal.

7.3 MATRIX SPIKES

Matrix spikes were determined only for selenium and cadmium. Matrix spike recoveries for cadmium were always within the QC guidance limits of 75 to 125 percent. The recoveries for selenium were generally within the desired range but were low in some cases. Thus, the selenium analysis may be affected by matrix interference in some instances.

7.4 LABORATORY CONTROL SAMPLES

Blank spikes were reported for selenium and cadmium, but not for other constituents. Laboratory control sample (blank spike) recoveries for these were generally within the QC guidance of 80 to 120 percent. These data indicate that analytical precision was reasonable and generally within acceptable analytical bounds.

7.5 STANDARD REFERENCE MATERIALS

Standard reference materials were included with the analytical runs for all elements, except uranium. The standard reference materials are prepared by external sources and provide a measure of laboratory accuracy. Recoveries for the external standards were generally good. Analytical methods used in the source laboratory that developed the standard reference materials may vary from those used in the reporting laboratory, so it is not uncommon for recoveries to deviate from the true values. The recoveries were almost always within acceptable limits, indicating good precision and high accuracy.

7.6 SENSITIVITY

The detection limits were below proposed regulatory benchmarks, and the data are adequate from this perspective. Notably, the reported detection limits are generally lower than previous investigations in the Resource Area (TtEMI 2001a). The relatively high sensitivity associated with the low detection limits resulted in low magnitude, but high proportional variation (see Section 7.8).

7.7 OVERALL ASSESSMENT OF LABORATORY DATA

Overall, only minor and isolated problems were noted with calibrations, blanks, matrix spikes, laboratory control samples, and standard reference materials. No apparent and consistent bias was detected in the analysis. The primary limitation of the data from a quality perspective is that matrix spikes, duplicates, and laboratory control samples were not consistently analyzed for all elements. Nonetheless, the data are considered both accurate and precise based on check standard, blank, and standard reference material analyses. The detection limits are much improved from previous investigations and are appropriate for the proposed regulatory comparisons.

7.8 OTHER DATA QUALITY ISSUES

This report focuses on unfiltered selenium and the filtered phase of nine metals, so it is important to acknowledge that, in particular cases, the reported values for filtered samples were greater than those reported for the corresponding unfiltered samples. These results are contrary to conditions normally expected when comparing total chemical concentrations in filtered and unfiltered data. Because particulate matter removed by filtering will decompose under acid treatment to release metal into solution, the unfiltered sample split generally has higher total metal concentrations than filtered samples. The incongruous results occurred in samples from all sampling events without any discernible pattern associated with particular analyses or sample teams. It is important to note that this pattern occurred in almost all laboratory analyses for which unfiltered and filtered samples were collected.

In the majority of cases where filtered sample results were higher than unfiltered results, concentrations were near the detection limit for the constituent. Because sample concentrations were near the detection limit (such as, generally less than 5 times the detection limit), the incongruous results are likely attributed to normal analytical variability, rather than gross field or laboratory errors. As indicated above, the low detection limits used in this study accentuate the potential for low absolute magnitude, but high proportional variability. The low flow regime of 2001 further aggravated variability for the filtered and unfiltered samples because the sediment load was minimal during sampling. In a few isolated instances, the filtered sample results were significantly higher than unfiltered samples from an absolute concentration perspective, suggesting some sort of error in the sampling, processing, or analytical processes. Low frequency errors of this nature are inherent in large-scale projects. Samples with obvious errors occur at low frequency (less than 5 percent) in the data and are easily identified. Interpretatively, these data should be used with caution.

8.0 SUMMARY

Between May and September 2001, surface water quality monitoring was performed within the upper Blackfoot, Salt, and Bear River watersheds. The monitoring program was designed to meet multiple objectives and data needs of TtEMI and IDEQ. This report presents monitoring results that will assist IDEQ in identifying waterbodies where aquatic life beneficial uses may be impaired by excessive concentrations of selenium and toxic metals. The State of Idaho has an established program for identifying and placing waterbodies that are impaired, with respect to their beneficial uses, on the State's 303(d) list. Once a waterbody is placed on the State's 303(d) list, it will be scheduled for TMDL development by IDEQ. Some of the streams sampled in 2001 are currently on Idaho's 303(d) list. The listings are mostly the result of sediment and nutrient pollution. Previous studies in the study area have demonstrated that streams draining from areas of historical or current mining activity contain concentrations of selenium and other constituents that can be detrimental to fish and other aquatic life. Currently, not one of the streams sampled in 2001 is listed for selenium or toxic metals.

Initial plans called for seven monitoring events in 2001. However, below average runoff caused sampling plans to be scaled back, and only three monitoring events were performed. Over the course of the 2001 monitoring events, water quality samples and field data were collected at 31 baseline monitoring stations. Roughly one-third of the sites were assumed to represent background or reference conditions unimpacted by mining. Events 1, 2, and 3 were performed in May, June, and September 2001, respectively. During Event 1, one sample was collected from each station and field duplicates and other field QC samples were also collected. Results from Event 1 were used to identify stations that would be sampled following 4-day averaging procedures during Event 2. Three stations were sampled according to these procedures during Event 2. At the remaining stations, only one sample was collected. During Event 3, one sample was collected from each station. By Event 3, several streams sampled during previous events were dry.

Sampling procedures followed EPA and USGS methods. Two laboratories were used for analyses of samples: (1) U of I and (2) ACZ. Field and laboratory QC procedures were implemented. While a full suite of analytes, including selenium and trace metals, were run on both filtered and unfiltered samples, this report focused mainly on unfiltered selenium and the dissolved phase of metals, which are all regulated by Idaho Administrative Code and enforced by IDEQ.

During all three events at all stations, arsenic was below laboratory detection limits. Copper, nickel, and zinc were detected at the majority of impacted and background stations during all events. Results for other metals exhibited variation in the number of stations at which they were detected. During each event, selenium was detected at 12 to 13 stations downstream from mining activity. Selenium was detected at only one background station during Event 2 only.

The only streams where numeric criteria for selenium were exceeded are Spring Creek, East Mill Creek, and Sage Creek. At station SPRTT016, located at the mouth of Spring Creek, the selenium CCC was exceeded during Event 2. At station EMCTT017, located on East Mill Creek above the split, the selenium CMC was exceeded during all three events, and the CCC was exceeded during Event 2. At station SCMTT026, near the mouth of Sage Creek, the chronic criterion for selenium was exceeded slightly.

At monitoring stations where selenium was detected more than once in 2001, selenium concentrations and loads typically decreased over the course of 2001 baseline monitoring events. Exceptions to this were observed at several Bear and Salt River watershed stations. In certain reaches, evidence shows that selenium was immobilized or somehow withdrawn from the water column. Evidence also shows that unknown sources of selenium may be contributing to selenium loading. The sources may include discharge of shallow groundwater, unsampled tributaries, or entrainment of in-stream selenium.

Laboratory results for samples collected by MW in 1998 and 1999 indicate that selenium concentrations exceeded the EPA chronic criterion in 16 streams or stream reaches. These streams are assumed to be impacted by mining because they are located downstream of active or historic mining activities. Concentrations of selenium in streams sampled during 2001 were lower than concentrations observed in the same streams during previous years. This is attributed to low-flow conditions in the study area watersheds associated with below-average precipitation and runoff during Winter and Spring 2001.

TtEMI integrated MW 1998-1999 stream selenium data with data collected during a fourth monitoring event performed by TtEMI in July 2001, and the other 2001 data described in detail in this report. Evaluation of all TtEMI and MW surface water selenium data revealed exceedances of chronic selenium criteria at least once in Georgetown Creek, Sage Creek, East Mill Creek, Spring Creek, Maybe Creek, Dry Valley Creek, Trail Creek, State Land Creek, and the Blackfoot River.

9.0 RECOMMENDATIONS FOR FUTURE WORK

Baseline monitoring activity in the upper Blackfoot, Salt, and Bear River watersheds is anticipated to continue in 2002. Recommendations listed here for future monitoring are aimed at (1) identifying waterbodies impacted by mining activity and impaired with respect to their beneficial uses and (2) providing a better understanding of the sources and pathways by which selenium loading is occurring.

TtEMI recommends that future monitoring activities focus on collection of water quality data from only those streams where selenium concentrations have been observed near or in excess of water quality criteria. TtEMI does not recommend further collection of water quality samples from background or reference streams in the study watershed. Water quality data collected by MW and TtEMI adequately demonstrate that selenium is not present in background streams at levels considered to be deleterious to aquatic life. Laboratory analyses should continue to include selenium and other NTR toxics, however, because arsenic was consistently below MDLs during 2001 baseline monitoring, we recommend removing arsenic from future analyses.

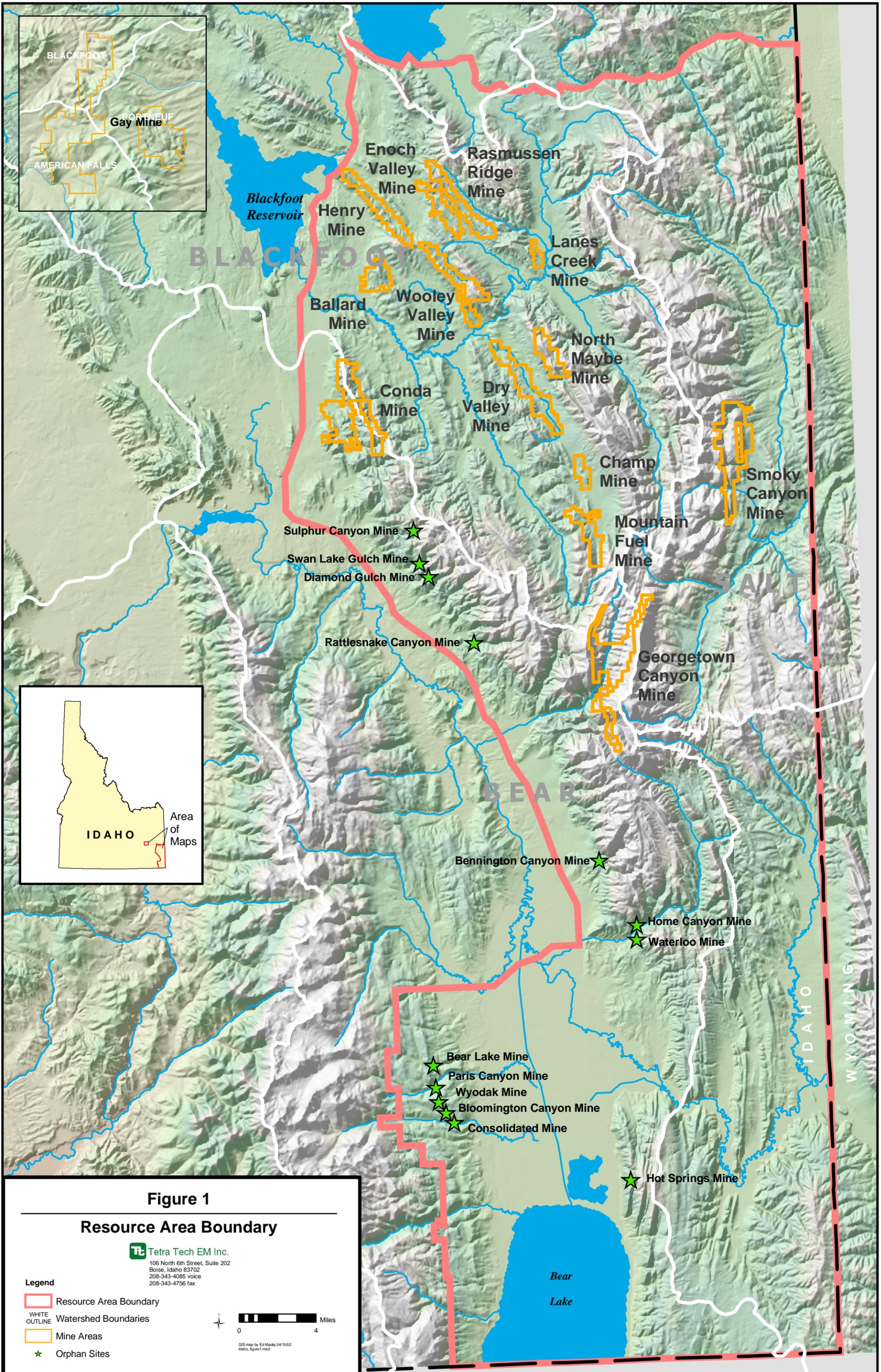
Continued future monitoring is recommended to emphasize sampling events during the spring high-flow season. Previous monitoring data demonstrate that the highest concentrations of pollutants in study areas streams typically occur during high flows. However, late-season or low-flow sampling should not be removed from future monitoring programs, especially if critical life stages (that is, embryo development) for fisheries occur during these times. Development of future work plans should consider timing of critical life stages for important fisheries in the study area. TtEMI recommends that the sample collection during the spring high flow season follow 4-day averaging protocol. This will ensure proper documentation of water quality exceedances for selenium and any other toxic pollutants in excess of chronic criteria.

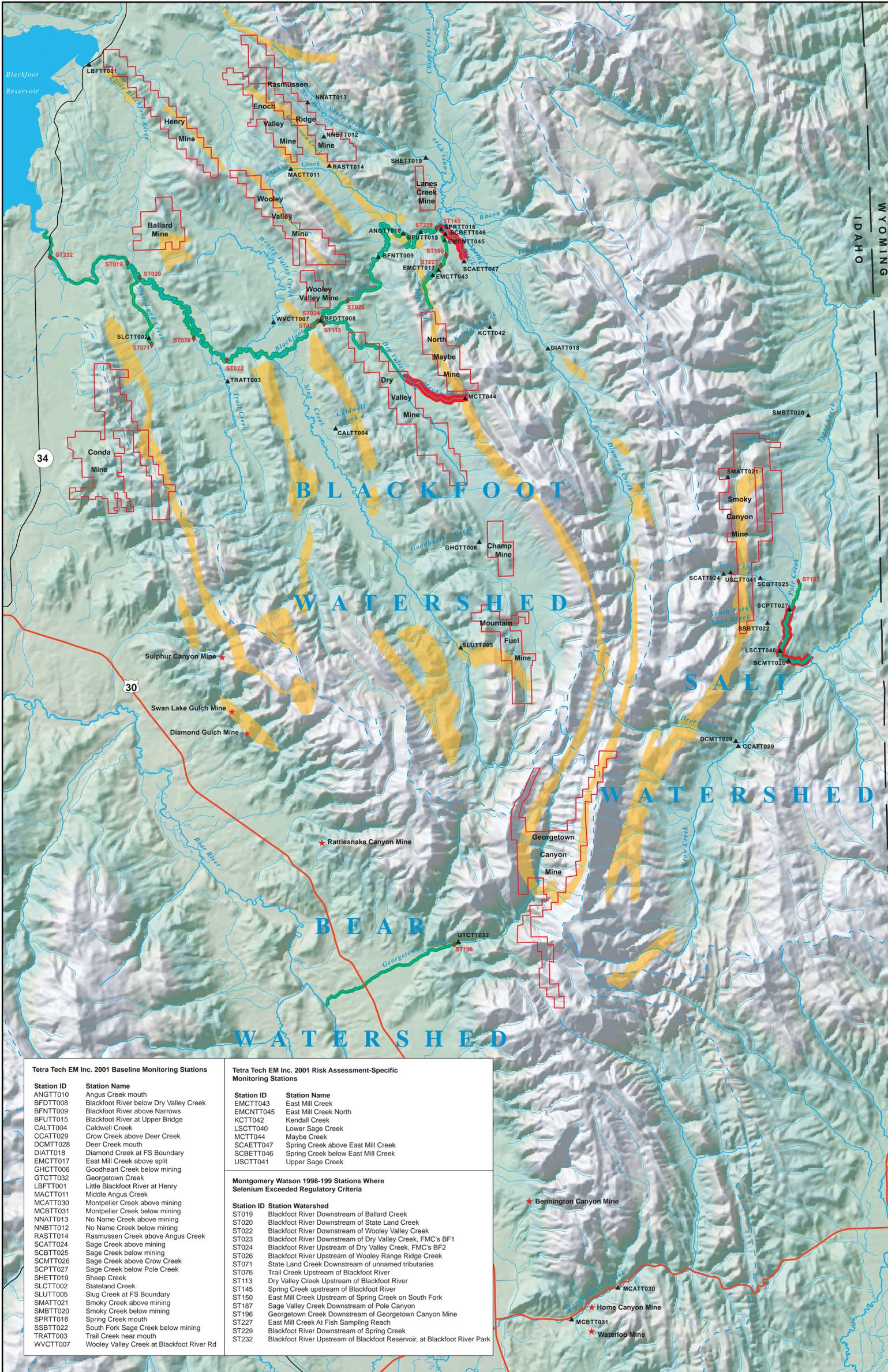
Because results from the 2001 baseline monitoring suggest that unknown sources of selenium are present within the upper Blackfoot River watershed, future monitoring should attempt to document any unknown sources. A detailed reconnaissance of stream reaches where undocumented selenium loading is believed to be occurring should also be performed. Any unsampled or newly discovered tributaries should then be sampled. To address the possibility that selenium is entering from diffuse sources, such as groundwater, additional monitoring stations along the reaches of concern in the Blackfoot River are also recommended. Focused studies aimed at characterizing quality and seepage rates of groundwater discharge entering study area streams are recommended for consideration.

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- Legend**
- ▲ Tetra Tech EM Inc. Sample Stations
 - ◆ MW Sample Stations
 - Impacted Stream Reaches as found by Montgomery Watson in 1998-99*
 - Impacted Stream Reaches as found by Tetra Tech EM Inc. in 2001*
 - U.S. Highway
 - State Highway
 - Streams
 - Lakes
 - Watershed Boundaries
 - ★ Orphan Mine Sites
 - Mine Areas
 - Phosphoria Outcrops (from USGS Open File Report 95-681)

* An "impacted stream reach" is defined as a stream reach where selenium has exceeded the chronic criterion (5 ug/L) at least once. The linear extent of each buffer used to represent an impacted stream reach is estimated. The buffers used in this map may not reflect every stream reach where an exceedance of the chronic selenium criterion has occurred historically.



Tetra Tech EM Inc. 2001 Baseline Monitoring Stations

| Station ID | Station Name |
|------------|--|
| ANGT010 | Angus Creek mouth |
| BFDT008 | Blackfoot River below Dry Valley Creek |
| BFNT009 | Blackfoot River above Narrows |
| BFUT015 | Blackfoot River at Upper Bridge |
| CALT004 | Caldwell Creek |
| CCATT029 | Crow Creek above Deer Creek |
| DCMTT028 | Deer Creek mouth |
| DIATT018 | Diamond Creek at FS Boundary |
| EMCTT017 | East Mill Creek above split |
| GHCTT006 | Goodheart Creek below mining |
| GTCTT032 | Georgetown Creek |
| LBFTT001 | Little Blackfoot River at Henry |
| MACTT011 | Middle Angus Creek |
| MCATT030 | Montpelier Creek above mining |
| MCBT031 | Montpelier Creek below mining |
| NNATT013 | No Name Creek above mining |
| NNBT012 | No Name Creek below mining |
| RASST014 | Rasmussen Creek above Angus Creek |
| SCATT024 | Sage Creek above mining |
| SCBT025 | Sage Creek below mining |
| SCMTT026 | Sage Creek above Crow Creek |
| SCPTT027 | Sage Creek below Pole Creek |
| SHETT019 | Sheep Creek |
| SLCTT002 | Stateland Creek |
| SLUTT005 | Slug Creek at FS Boundary |
| SMATT021 | Smoky Creek above mining |
| SMBTT020 | Smoky Creek below mining |
| SPRTT016 | Spring Creek mouth |
| SBTT012 | South Fork Sage Creek below mining |
| TRATT003 | Trail Creek near mouth |
| WVCTT007 | Woolley Valley Creek at Blackfoot River Rd |

Tetra Tech EM Inc. 2001 Risk Assessment-Specific Monitoring Stations

| Station ID | Station Name |
|------------|------------------------------------|
| EMCTT043 | East Mill Creek |
| EMCNTT045 | East Mill Creek North |
| KCTT042 | Kendall Creek |
| LSCCT040 | Lower Sage Creek |
| MCCTT044 | Maybe Creek |
| SCAETT047 | Spring Creek above East Mill Creek |
| SCBETT046 | Spring Creek below East Mill Creek |
| USCTT041 | Upper Sage Creek |

Montgomery Watson 1998-199 Stations Where Selenium Exceeded Regulatory Criteria

| Station ID | Station | Watershed |
|------------|--|-----------|
| ST019 | Blackfoot River Downstream of Ballard Creek | Blackfoot |
| ST020 | Blackfoot River Downstream of State Land Creek | Blackfoot |
| ST022 | Blackfoot River Downstream of Woolley Valley Creek | Blackfoot |
| ST023 | Blackfoot River Downstream of Dry Valley Creek, FMC's BF1 | Blackfoot |
| ST024 | Blackfoot River Upstream of Dry Valley Creek, FMC's BF2 | Blackfoot |
| ST026 | Blackfoot River Upstream of Woolley Range Ridge Creek | Blackfoot |
| ST071 | State Land Creek Downstream of unnamed tributaries | Blackfoot |
| ST076 | Trail Creek Upstream of Blackfoot River | Blackfoot |
| ST113 | Dry Valley Creek Upstream of Blackfoot River | Blackfoot |
| ST145 | Spring Creek upstream of Blackfoot River | Blackfoot |
| ST150 | East Mill Creek Upstream of Spring Creek on South Fork | Blackfoot |
| ST187 | Sage Valley Creek Downstream of Pole Canyon | Blackfoot |
| ST196 | Georgetown Creek Downstream of Georgetown Canyon Mine | Blackfoot |
| ST227 | East Mill Creek At Fish Sampling Reach | Blackfoot |
| ST229 | Blackfoot River Downstream of Spring Creek | Blackfoot |
| ST232 | Blackfoot River Upstream of Blackfoot Reservoir, at Blackfoot River Park | Blackfoot |

Figure 11
Map of Selenium-Impacted Streams Based on Data Collected Since 1998

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APPENDIX A
SURFACE WATER LABORATORY RESULTS

Appendix A - Surface Water Laboratory Results

Key to Abbreviations

Headers and Result

UNF Result - Unfiltered Result
 FIL Result - Filtered Result
 BDL - Below Detection Limit
 MDL - Minimum Detection Limit

Units

mg CACO3/L - milligrams calcium carbonate per liter
 mg/L - milligrams per liter
 pCi/L - pico Curies per liter
 ug/L - micrograms per liter

Sample Types

FO - Field Original
 FD - Field Duplicate
 FB - Field Blank
 ER - Equipment Rinsate
 4D - Four Day Average
 SPL - Split

Station: ANGTT010

Matrix: surface water

Sample Date: 5/17/2001

Event: 1

Sample Type: FO

SAMPLE ID

SW-ANGTT010-101

| | UNF Result | FIL Result | MDL | Units | Lab |
|----------|-------------------|-------------------|------------|--------------|------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | 0.97 | 0.92 | 0.13 | ug/L | U of Idaho |
| Lead | 0.29 | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | BDL | | 0.5 | ug/L | U of Idaho |
| Nickel | 0.99 | 0.15 | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 63 | BDL | 10 | ug/L | U of Idaho |

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|-------------------|-------------------|------------|--------------|------------------|
| Aluminum | 130 | 44 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 23 | 29 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 150 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 50 | 55 | 25 | ug/L | U of Idaho |
| Calcium | 49000 | 54000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 5300 | | 100 | ug/L | U of Idaho |
| Fluoride | 120 | | 100 | ug/L | U of Idaho |
| Gross Alpha Radiation | 0 +/- 1.9 | | 2.2 | pCi/L | ACZ Laboratories |
| Gross Beta Radiation | 4.4 +/- 3.1 | | 4.1 | pCi/L | ACZ Laboratories |
| Hardness | | 176 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 280 | 55 | 10 | ug/L | U of Idaho |
| Magnesium | 9100 | 10000 | 5 | ug/L | U of Idaho |
| Manganese | 50 | 38 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Potassium | 1200 | 1300 | 500 | ug/L | U of Idaho |
| Sodium | 4800 | 5800 | 2000 | ug/L | U of Idaho |
| Sulfate | 23000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 150 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 230 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 10 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 120 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 0.48 | 0.45 | 0.1 | ug/L | U of Idaho |
| Vanadium | 1 | 1.2 | 0.25 | ug/L | U of Idaho |

Station: ANGTT010

Matrix: surface water

Sample Date: 6/14/2001

Event: 2

Sample Type: FO

SAMPLE ID SW-ANGTT010-102

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Nickel | BDL | 0.58 | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | 16 | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | 12 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 48 | 18 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 11 | 28 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 180 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 56 | 130 | 25 | ug/L | U of Idaho |
| Calcium | 53000 | 55000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 5100 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Hardness | | 195 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 140 | BDL | 10 | ug/L | U of Idaho |
| Magnesium | 12000 | 14000 | 5 | ug/L | U of Idaho |
| Manganese | 35 | 5.9 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Potassium | 1300 | 500 | 500 | ug/L | U of Idaho |
| Sodium | 6200 | 4400 | 2000 | ug/L | U of Idaho |
| Sulfate | 19000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 180 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 230 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 5 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 130 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 0.5 | 0.4 | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | 0.27 | 0.25 | ug/L | U of Idaho |

Station: BFDTT008

Matrix: surface water

Sample Date: 5/16/2001

Event: 1

Sample Type: FO

SAMPLE ID SW-BFDTT008-101

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|-------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | 0.46 | 0.6 | 0.13 | ug/L | U of Idaho |
| Lead | 0.39 | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | BDL | | 0.5 | ug/L | U of Idaho |
| Nickel | BDL | 0.43 | 0.13 | ug/L | U of Idaho |
| Selenium | 2.1 | 2.6 | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 12 | 87 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 490 | 14 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 68 | 55 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 170 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 77 | 110 | 25 | ug/L | U of Idaho |
| Calcium | 52000 | 50000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | 9 | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 2300 | | 100 | ug/L | U of Idaho |
| Fluoride | 100 | | 100 | ug/L | U of Idaho |
| Gross Alpha Radiation | 4.1 +/- 2.9 | | 2.3 | pCi/L | ACZ Laboratories |
| Gross Beta Radiation | 5.9 +/- 3.2 | | 4.1 | pCi/L | ACZ Laboratories |
| Hardness | | 166 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 360 | 19 | 10 | ug/L | U of Idaho |
| Magnesium | 11000 | 10000 | 5 | ug/L | U of Idaho |
| Manganese | 68 | 27 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Potassium | 920 | 680 | 500 | ug/L | U of Idaho |
| Sodium | 3400 | 3800 | 2000 | ug/L | U of Idaho |
| Sulfate | 11000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 180 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 190 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 2 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 74 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | 18 | | 4 | mg/L | U of Idaho |
| Uranium | 0.46 | 0.47 | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | 0.49 | 0.25 | ug/L | U of Idaho |

Station: BFDTT008

Matrix: surface water

Sample Date: 6/13/2001

Event: 2

Sample Type: FO

SAMPLE ID SW-BFDTT008-102

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | 0.59 | 0.82 | 0.5 | ug/L | U of Idaho |
| Copper | 0.26 | BDL | 0.13 | ug/L | U of Idaho |
| Lead | 0.47 | BDL | 0.25 | ug/L | U of Idaho |
| Nickel | BDL | 0.77 | 0.13 | ug/L | U of Idaho |
| Selenium | 1.6 | 2.3 | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 11 | 14 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 67 | 20 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 54 | 52 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 180 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 85 | 240 | 25 | ug/L | U of Idaho |
| Calcium | 52000 | 49000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | 18 | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 2500 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Hardness | | 172 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 96 | 70 | 10 | ug/L | U of Idaho |
| Magnesium | 12000 | 12000 | 5 | ug/L | U of Idaho |
| Manganese | 18 | 16 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Potassium | 550 | 540 | 500 | ug/L | U of Idaho |
| Sodium | 4000 | 4100 | 2000 | ug/L | U of Idaho |
| Sulfate | 10000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 190 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 150 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 3 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 30 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 0.73 | 0.46 | 0.1 | ug/L | U of Idaho |
| Vanadium | 0.97 | 0.8 | 0.25 | ug/L | U of Idaho |

Station: BFDTT008

Matrix: surface water

Sample Date: 9/19/2001

Event: 3

Sample Type: FO

SAMPLE ID SW-BFDTT008-103

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|--------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | 5.8 | BDL | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | 0.0012 | | 0.0002 | ug/L | ACZ Laboratories |
| Nickel | 43 | BDL | 0.13 | ug/L | U of Idaho |
| Selenium | 1.7 | 1.6 | 1 | ug/L | U of Idaho |
| Silver | 0.25 | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 15 | 56 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 26 | 25 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 43 | BDL | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 160 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 42 | 51 | 25 | ug/L | U of Idaho |
| Calcium | 44000 | 45000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | 4 | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 2000 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Hardness | | 170 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Magnesium | 12000 | 14000 | 5 | ug/L | U of Idaho |
| Manganese | 8.4 | 5.7 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Sulfate | 9600 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 170 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 160 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 2 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 10 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 0.43 | 0.5 | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | 6.6 | 0.25 | ug/L | U of Idaho |

Station: BFNTT009

Matrix: surface water

Sample Date: 5/17/2001

Event: 1

Sample Type: FO

SAMPLE ID SW-BFNTT009-101

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|--------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | 0.63 | 0.45 | 0.13 | ug/L | U of Idaho |
| Lead | 0.31 | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | BDL | | 0.5 | ug/L | U of Idaho |
| Nickel | 1.7 | BDL | 0.13 | ug/L | U of Idaho |
| Selenium | 1.6 | 1.6 | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 54 | BDL | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 190 | 34 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 69 | 74 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 170 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 53 | 120 | 25 | ug/L | U of Idaho |
| Calcium | 50000 | 58000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | 14 | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 1900 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Gross Alpha Radiation | 0.17 +/- 2 | | 2.6 | pCi/L | ACZ Laboratories |
| Gross Beta Radiation | 0.24 +/- 3.2 | | 4.2 | pCi/L | ACZ Laboratories |
| Hardness | | 190 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 240 | 24 | 10 | ug/L | U of Idaho |
| Magnesium | 10000 | 11000 | 5 | ug/L | U of Idaho |
| Manganese | 39 | 37 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Potassium | 760 | 820 | 500 | ug/L | U of Idaho |
| Sodium | 3900 | 4600 | 2000 | ug/L | U of Idaho |
| Sulfate | 10000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 180 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 230 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 3 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 67 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | 6 | | 4 | mg/L | U of Idaho |
| Uranium | 0.56 | 0.5 | 0.1 | ug/L | U of Idaho |
| Vanadium | 1.5 | 1.4 | 0.25 | ug/L | U of Idaho |

Station: BFNTT009

Matrix: surface water

Sample Date: 6/13/2001

Event: 2

Sample Type: FO

SAMPLE ID SW-BFNTT009-102

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Lead | 0.4 | BDL | 0.25 | ug/L | U of Idaho |
| Nickel | BDL | 0.7 | 0.13 | ug/L | U of Idaho |
| Selenium | 1.3 | 1.6 | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 13 | 12 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 72 | 13 | 1 | ug/L | U of Idaho |
| Antimony | BDL | 3 | 2.5 | ug/L | U of Idaho |
| Barium | 56 | 52 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 160 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 59 | 140 | 25 | ug/L | U of Idaho |
| Calcium | 53000 | 48000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | 18 | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 1900 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Hardness | | 165 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 110 | 31 | 10 | ug/L | U of Idaho |
| Magnesium | 11000 | 11000 | 5 | ug/L | U of Idaho |
| Manganese | 13 | 8.3 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | 130 | | 100 | ug/L | U of Idaho |
| Potassium | BDL | BDL | 500 | ug/L | U of Idaho |
| Sodium | 4000 | 4600 | 2000 | ug/L | U of Idaho |
| Sulfate | 9300 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 180 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 150 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 4 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 33 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 0.64 | 0.47 | 0.1 | ug/L | U of Idaho |
| Vanadium | 0.72 | BDL | 0.25 | ug/L | U of Idaho |

Station: BFNTT009

Matrix: surface water

Sample Date: 6/13/2001

Event: 2

Sample Type: FD

SAMPLE ID SW-BFNTT009-202

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | 0.45 | BDL | 0.13 | ug/L | U of Idaho |
| Lead | 12 | BDL | 0.25 | ug/L | U of Idaho |
| Nickel | BDL | 0.5 | 0.13 | ug/L | U of Idaho |
| Selenium | 1.6 | 1.8 | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | 12 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 74 | 17 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 53 | 52 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 170 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 87 | 220 | 25 | ug/L | U of Idaho |
| Calcium | 50000 | 49000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | 9 | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 1800 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Hardness | | 172 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 100 | 100 | 10 | ug/L | U of Idaho |
| Magnesium | 11000 | 12000 | 5 | ug/L | U of Idaho |
| Manganese | 12 | 8 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Potassium | BDL | 510 | 500 | ug/L | U of Idaho |
| Sodium | 3700 | 4100 | 2000 | ug/L | U of Idaho |
| Sulfate | 9300 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 180 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 120 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 3 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 32 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 0.63 | 0.41 | 0.1 | ug/L | U of Idaho |
| Vanadium | 0.64 | 0.56 | 0.25 | ug/L | U of Idaho |

Station: BFNTT009

Matrix: surface water

Sample Date: 9/20/2001

Event: 3

Sample Type: FO

SAMPLE ID SW-BFNTT009-103

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|--------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | 0.0019 | | 0.0002 | ug/L | ACZ Laboratories |
| Nickel | 1.1 | 0.78 | 0.13 | ug/L | U of Idaho |
| Selenium | 1 | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | 12 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 25 | 21 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 49 | 55 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 150 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 88 | 120 | 25 | ug/L | U of Idaho |
| Calcium | 44000 | 46000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | 9 | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 1900 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Hardness | | 168 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Magnesium | 12000 | 13000 | 5 | ug/L | U of Idaho |
| Manganese | 4.9 | 2.5 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Sulfate | 9300 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 160 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 190 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 3 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 11 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 0.4 | 0.45 | 0.1 | ug/L | U of Idaho |
| Vanadium | 0.3 | BDL | 0.25 | ug/L | U of Idaho |

Station: BFNTT009

Matrix: surface water

Sample Date: 9/20/2001

Event: 3

Sample Type: FD

SAMPLE ID SW-BFNTT009-203

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|--------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Lead | 0.54 | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | 0.0028 | | 0.0002 | ug/L | ACZ Laboratories |
| Nickel | 1.3 | BDL | 0.13 | ug/L | U of Idaho |
| Selenium | 2 | BDL | 1 | ug/L | U of Idaho |
| Silver | 0.37 | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | BDL | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 23 | 12 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 49 | 53 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 150 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 60 | 73 | 25 | ug/L | U of Idaho |
| Calcium | 45000 | 46000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | 9 | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 1900 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Hardness | | 168 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Magnesium | 12000 | 13000 | 5 | ug/L | U of Idaho |
| Manganese | 5.7 | 2 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | 6300 | | 100 | ug/L | U of Idaho |
| Sulfate | 9400 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 160 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 230 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 4 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 11 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 0.39 | 0.44 | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | BDL | 0.25 | ug/L | U of Idaho |

Station: BFUTT015

Matrix: surface water

Sample Date: 5/18/2001

Event: 1

Sample Type: FO

SAMPLE ID SW-BFUTT015-101

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|-------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | 0.26 | 0.51 | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | BDL | | 0.5 | ug/L | U of Idaho |
| Nickel | BDL | 1.2 | 0.13 | ug/L | U of Idaho |
| Selenium | 2.5 | 2.4 | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | 130 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 170 | 11 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 82 | 67 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 190 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 96 | 64 | 25 | ug/L | U of Idaho |
| Calcium | 60000 | 53000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 1700 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Gross Alpha Radiation | 5 +/- 3.2 | | 2.6 | pCi/L | ACZ Laboratories |
| Gross Beta Radiation | 8.4 +/- 3.6 | | 4.2 | pCi/L | ACZ Laboratories |
| Hardness | | 174 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 220 | BDL | 10 | ug/L | U of Idaho |
| Magnesium | 12000 | 10000 | 5 | ug/L | U of Idaho |
| Manganese | 40 | 24 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Potassium | 720 | 610 | 500 | ug/L | U of Idaho |
| Sodium | 5100 | 3700 | 2000 | ug/L | U of Idaho |
| Sulfate | 10000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 190 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 220 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 5 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 44 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | 7 | | 4 | mg/L | U of Idaho |
| Uranium | 0.51 | 0.5 | 0.1 | ug/L | U of Idaho |
| Vanadium | 0.56 | 0.74 | 0.25 | ug/L | U of Idaho |

Station: BFUTT015

Matrix: surface water

Sample Date: 6/13/2001

Event: 2

Sample Type: FO

SAMPLE ID SW-BFUTT015-102

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | 0.34 | BDL | 0.13 | ug/L | U of Idaho |
| Lead | 0.32 | BDL | 0.25 | ug/L | U of Idaho |
| Nickel | BDL | 0.87 | 0.13 | ug/L | U of Idaho |
| Selenium | 1.7 | 2.2 | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | 13 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 43 | 14 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 56 | 58 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 170 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 42 | 160 | 25 | ug/L | U of Idaho |
| Calcium | 53000 | 51000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | 18 | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 1600 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Hardness | | 177 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 81 | 39 | 10 | ug/L | U of Idaho |
| Magnesium | 11000 | 12000 | 5 | ug/L | U of Idaho |
| Manganese | 13 | 13 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Potassium | BDL | 610 | 500 | ug/L | U of Idaho |
| Sodium | 4200 | 4900 | 2000 | ug/L | U of Idaho |
| Sulfate | 9400 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 190 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 150 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 20 | | 10 | mg/L | ACZ Laboratories |
| Total Phosphorus | 27 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 0.66 | 0.42 | 0.1 | ug/L | U of Idaho |
| Vanadium | 0.75 | 0.71 | 0.25 | ug/L | U of Idaho |

Station: BFUTT015

Matrix: surface water

Sample Date: 9/20/2001

Event: 3

Sample Type: FO

SAMPLE ID SW-BFUTT015-103

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|-------------------|-------------------|------------|--------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | 0.0026 | | 0.0002 | ug/L | ACZ Laboratories |
| Nickel | 1.1 | 0.14 | 0.13 | ug/L | U of Idaho |
| Selenium | 1.1 | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 12 | BDL | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 40 | 23 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 52 | 53 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 170 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 73 | 94 | 25 | ug/L | U of Idaho |
| Calcium | 50000 | 52000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | 7 | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 1900 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Hardness | | 183 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Magnesium | 12000 | 13000 | 5 | ug/L | U of Idaho |
| Manganese | 9.7 | 6.1 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | 250 | | 100 | ug/L | U of Idaho |
| Sulfate | 9900 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 180 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 190 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 30 | | 10 | mg/L | ACZ Laboratories |
| Total Phosphorus | 20 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 0.4 | 0.46 | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | BDL | 0.25 | ug/L | U of Idaho |

Station: CALTT004**Matrix:** surface water**Sample Date:** 5/16/2001**Event:** 1**Sample Type:** SPL**SAMPLE ID** E0100354-3

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------|-------------------|-------------------|------------|--------------|------------------|
| Arsenic | 1.4 | 0.8 | 0.5 | ug/L | ACZ Laboratories |
| Cadmium | 0.6 | BDL | 0.1 | ug/L | ACZ Laboratories |
| Chromium | 5.8 | 0.3 | 0.1 | ug/L | ACZ Laboratories |
| Copper | BDL | 1 | 50 | ug/L | ACZ Laboratories |
| Lead | 4.1 | BDL | 0.1 | ug/L | ACZ Laboratories |
| Nickel | 6.7 | 1.3 | 0.2 | ug/L | ACZ Laboratories |
| Selenium | BDL | BDL | 1 | ug/L | ACZ Laboratories |
| Silver | BDL | BDL | 0.05 | ug/L | ACZ Laboratories |
| Zinc | 60 | 130 | 10 | ug/L | ACZ Laboratories |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 4590 | 9.8 | 50 | ug/L | ACZ Laboratories |
| Antimony | BDL | BDL | 0.2 | ug/L | ACZ Laboratories |
| Barium | 174 | 89 | 3 | ug/L | ACZ Laboratories |
| Beryllium | 0.3 | BDL | 0.1 | ug/L | ACZ Laboratories |
| Boron | 30 | 40 | 10 | ug/L | ACZ Laboratories |
| Calcium | 76500 | 63400 | 200 | ug/L | ACZ Laboratories |
| Iron | 6250 | 20 | 10 | ug/L | ACZ Laboratories |
| Magnesium | 14800 | 12500 | 200 | ug/L | ACZ Laboratories |
| Manganese | 303 | 37 | 5 | ug/L | ACZ Laboratories |
| Molybdenum | 0.8 | 0.9 | 0.1 | ug/L | ACZ Laboratories |
| Potassium | 3400 | 1700 | 300 | ug/L | ACZ Laboratories |
| Sodium | 7600 | 7500 | 300 | ug/L | ACZ Laboratories |
| Thallium | 0.08 | BDL | 0.05 | ug/L | ACZ Laboratories |
| Uranium | 0.93 | 0.76 | 0.05 | ug/L | ACZ Laboratories |
| Vanadium | BDL | 1.12 | 0.05 | ug/L | ACZ Laboratories |

Station: CALTT004**Matrix:** surface water**Sample Date:** 5/16/2001**Event:** 1**Sample Type:** SPL**SAMPLE ID** E0100354-4

| | UNF Result | FIL Result | MDL | Units | Lab |
|----------|-------------------|-------------------|------------|--------------|------------------|
| Arsenic | | 0.8 | 0.5 | ug/L | ACZ Laboratories |
| Cadmium | | BDL | 0.1 | ug/L | ACZ Laboratories |
| Chromium | | 0.3 | 0.1 | ug/L | ACZ Laboratories |
| Copper | | 1 | 0.5 | ug/L | ACZ Laboratories |
| Lead | | BDL | 0.1 | ug/L | ACZ Laboratories |
| Mercury | 0.0086 | | 0.0002 | ug/L | ACZ Laboratories |
| Nickel | | 1.3 | 0.2 | ug/L | ACZ Laboratories |
| Selenium | | BDL | 1 | ug/L | ACZ Laboratories |
| Silver | | BDL | 0.05 | ug/L | ACZ Laboratories |
| Zinc | | 130 | 50 | ug/L | ACZ Laboratories |

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------|-------------------|-------------------|------------|--------------|------------------|
| Aluminum | | 9.8 | 0.5 | ug/L | ACZ Laboratories |
| Antimony | | BDL | 0.2 | ug/L | ACZ Laboratories |
| Barium | | 89 | 3 | ug/L | ACZ Laboratories |
| Beryllium | | BDL | 0.1 | ug/L | ACZ Laboratories |
| Boron | | 40 | 10 | ug/L | ACZ Laboratories |
| Calcium | | 63400 | 200 | ug/L | ACZ Laboratories |
| Iron | | 20 | 10 | ug/L | ACZ Laboratories |
| Magnesium | | 12500 | 200 | ug/L | ACZ Laboratories |
| Manganese | | 37 | 5 | ug/L | ACZ Laboratories |
| Molybdenum | | 0.9 | 0.1 | ug/L | ACZ Laboratories |
| Potassium | | 1700 | 300 | ug/L | ACZ Laboratories |
| Sodium | | 7500 | 300 | ug/L | ACZ Laboratories |
| Thallium | | BDL | 0.05 | ug/L | ACZ Laboratories |
| Uranium | | 0.76 | 0.05 | ug/L | ACZ Laboratories |
| Vanadium | | 1.12 | 0.05 | ug/L | ACZ Laboratories |

Station: CALTT004

Matrix: surface water

Sample Date: 5/16/2001

Event: 1

Sample Type: FO

SAMPLE ID SW-CALTT004-101

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|-------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | 0.65 | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | 3.6 | BDL | 0.5 | ug/L | U of Idaho |
| Copper | 2.7 | 0.75 | 0.13 | ug/L | U of Idaho |
| Lead | 4.2 | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | BDL | | 0.5 | ug/L | U of Idaho |
| Nickel | 4 | 0.93 | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 54 | 110 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 8100 | 20 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 180 | 84 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 170 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 85 | 100 | 25 | ug/L | U of Idaho |
| Calcium | 78000 | 59000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | 13 | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 8100 | | 100 | ug/L | U of Idaho |
| Fluoride | 140 | | 100 | ug/L | U of Idaho |
| Gross Alpha Radiation | 2.6 +/- 3.2 | | 2.6 | pCi/L | ACZ Laboratories |
| Gross Beta Radiation | 3 +/- 2.8 | | 4.2 | pCi/L | ACZ Laboratories |
| Hardness | | 197 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 6300 | BDL | 10 | ug/L | U of Idaho |
| Magnesium | 15000 | 12000 | 5 | ug/L | U of Idaho |
| Manganese | 310 | 31 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Potassium | 3300 | 1500 | 500 | ug/L | U of Idaho |
| Sodium | 6800 | 7600 | 2000 | ug/L | U of Idaho |
| Sulfate | 20000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 180 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 240 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 3 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 720 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | 300 | | 4 | mg/L | U of Idaho |
| Uranium | 1.1 | 0.93 | 0.1 | ug/L | U of Idaho |
| Vanadium | 8.1 | 1.2 | 0.25 | ug/L | U of Idaho |

Station: CALTT004

Matrix: surface water

Sample Date: 6/14/2001

Event: 2

Sample Type: FO

SAMPLE ID SW-CALTT004-102

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Lead | 0.6 | BDL | 0.25 | ug/L | U of Idaho |
| Nickel | BDL | 0.72 | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 14 | 12 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 870 | 20 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 81 | 82 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 180 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 59 | 180 | 25 | ug/L | U of Idaho |
| Calcium | 64000 | 61000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | 15 | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 8500 | | 100 | ug/L | U of Idaho |
| Fluoride | 110 | | 100 | ug/L | U of Idaho |
| Hardness | | 202 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 1200 | 13 | 10 | ug/L | U of Idaho |
| Magnesium | 13000 | 12000 | 5 | ug/L | U of Idaho |
| Manganese | 70 | 37 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Potassium | 1300 | 1100 | 500 | ug/L | U of Idaho |
| Sodium | 7500 | 7400 | 2000 | ug/L | U of Idaho |
| Sulfate | 22000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 200 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 270 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 5 | | 2 | mg/L | ACZ Laboratories |
| Total Phosphorus | 140 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | 48 | | 4 | mg/L | U of Idaho |
| Uranium | 0.7 | 0.7 | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | 0.67 | 0.25 | ug/L | U of Idaho |

Station: CALTT004

Matrix: surface water

Sample Date: 9/19/2001

Event: 3

Sample Type: FO

SAMPLE ID SW-CALTT004-103

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|--------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | 0.74 | BDL | 0.13 | ug/L | U of Idaho |
| Lead | 0.75 | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | 0.0024 | | 0.0002 | ug/L | ACZ Laboratories |
| Nickel | 2 | 0.69 | 0.13 | ug/L | U of Idaho |
| Selenium | 1.4 | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 32 | 12 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 380 | 28 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 100 | 93 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 220 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 60 | 87 | 25 | ug/L | U of Idaho |
| Calcium | 70000 | 68000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 9900 | | 100 | ug/L | U of Idaho |
| Fluoride | 150 | | 100 | ug/L | U of Idaho |
| Hardness | | 227 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Magnesium | 14000 | 14000 | 5 | ug/L | U of Idaho |
| Manganese | 120 | 36 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Sulfate | 17000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 220 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 250 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 9 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 220 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | 54 | | 4 | mg/L | U of Idaho |
| Uranium | 0.77 | 0.93 | 0.1 | ug/L | U of Idaho |
| Vanadium | 2.2 | 0.56 | 0.25 | ug/L | U of Idaho |

Station: CALTT004

Matrix: surface water

Sample Date: 9/19/2001

Event: 3

Sample Type: FD

SAMPLE ID SW-CALTT004-203

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|--------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | 0.71 | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | 0.67 | BDL | 0.13 | ug/L | U of Idaho |
| Lead | 2.3 | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | 0.0081 | | 0.0002 | ug/L | ACZ Laboratories |
| Nickel | 2.2 | 0.96 | 0.13 | ug/L | U of Idaho |
| Selenium | 1.5 | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 110 | 12 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 630 | 33 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 180 | 96 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 240 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 80 | 210 | 25 | ug/L | U of Idaho |
| Calcium | 88000 | 68000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 9900 | | 100 | ug/L | U of Idaho |
| Fluoride | 140 | | 100 | ug/L | U of Idaho |
| Hardness | | 232 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Magnesium | 16000 | 15000 | 5 | ug/L | U of Idaho |
| Manganese | 810 | 76 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Sulfate | 17000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 240 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 250 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 6 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 720 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | 490 | | 4 | mg/L | U of Idaho |
| Uranium | 0.68 | 0.92 | 0.1 | ug/L | U of Idaho |
| Vanadium | 3.8 | 0.9 | 0.25 | ug/L | U of Idaho |

Station: CCATT029

Matrix: surface water

Sample Date: 5/16/2001

Event: 1

Sample Type: FO

SAMPLE ID SW-CCATT029-101

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|-------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | 0.16 | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | 1.2 | 0.53 | 0.13 | ug/L | U of Idaho |
| Lead | 0.66 | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | BDL | | 0.5 | ug/L | U of Idaho |
| Nickel | 1.5 | 0.37 | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | 66 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 200 | 22 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 68 | 58 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 190 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 95 | 150 | 25 | ug/L | U of Idaho |
| Calcium | 66000 | 61000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | 9 | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 160000 | | 100 | ug/L | U of Idaho |
| Fluoride | 130 | | 100 | ug/L | U of Idaho |
| Gross Alpha Radiation | 3.7 +/- 3.3 | | 2.9 | pCi/L | ACZ Laboratories |
| Gross Beta Radiation | 4.6 +/- 3.3 | | 4.2 | pCi/L | ACZ Laboratories |
| Hardness | | 218 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 320 | 38 | 10 | ug/L | U of Idaho |
| Magnesium | 16000 | 16000 | 5 | ug/L | U of Idaho |
| Manganese | 39 | 18 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Potassium | 940 | 850 | 500 | ug/L | U of Idaho |
| Sodium | 100000 | 100000 | 2000 | ug/L | U of Idaho |
| Sulfate | 24000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 200 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 520 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 4 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 53 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | 11 | | 4 | mg/L | U of Idaho |
| Uranium | 0.96 | 1 | 0.1 | ug/L | U of Idaho |
| Vanadium | 2.3 | 2.5 | 0.25 | ug/L | U of Idaho |

Station: CCATT029

Matrix: surface water

Sample Date: 6/13/2001

Event: 2

Sample Type: FO

SAMPLE ID SW-CCATT029-102

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------------|
| Arsenic | 1.5 | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | 0.23 | 0.13 | ug/L | U of Idaho |
| Chromium | 0.56 | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Lead | 3.5 | BDL | 0.25 | ug/L | U of Idaho |
| Nickel | 0.4 | 0.89 | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | 1.2 | 1 | ug/L | U of Idaho |
| Silver | 3.5 | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 11 | 14 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 52 | 14 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 57 | 60 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 200 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 72 | 180 | 25 | ug/L | U of Idaho |
| Calcium | 72000 | 68000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | 18 | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 190000 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Hardness | | 244 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 54 | 50 | 10 | ug/L | U of Idaho |
| Magnesium | 18000 | 18000 | 5 | ug/L | U of Idaho |
| Manganese | 18 | 19 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | 320 | | 100 | ug/L | U of Idaho |
| Potassium | 1200 | 1100 | 500 | ug/L | U of Idaho |
| Sodium | 110000 | 110000 | 2000 | ug/L | U of Idaho |
| Sulfate | 28000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 220 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 570 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 3 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 35 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 1.9 | 1.3 | 0.1 | ug/L | U of Idaho |
| Vanadium | 1 | 1.1 | 0.25 | ug/L | U of Idaho |

Station: CCATT029

Matrix: surface water

Sample Date: 9/18/2001

Event: 3

Sample Type: FO

SAMPLE ID SW-CCATT029-103

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|--------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | 3.3 | 3.1 | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | 0.0008 | | 0.0002 | ug/L | ACZ Laboratories |
| Nickel | 1 | 8.6 | 0.13 | ug/L | U of Idaho |
| Selenium | 1.1 | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 14 | 13 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 24 | 13 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 44 | 52 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 210 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 65 | 64 | 25 | ug/L | U of Idaho |
| Calcium | 62000 | 62000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | 4 | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 79000 | | 100 | ug/L | U of Idaho |
| Fluoride | 170 | | 100 | ug/L | U of Idaho |
| Hardness | | 225 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Magnesium | 16000 | 17000 | 5 | ug/L | U of Idaho |
| Manganese | 19 | 12 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Sulfate | 15000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 210 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 370 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 5 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 27 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 0.87 | 0.94 | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | BDL | 0.25 | ug/L | U of Idaho |

Station: DCMTT028

Matrix: surface water

Sample Date: 5/16/2001

Event: 1

Sample Type: FO

SAMPLE ID SW-DCMTT028-101

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|-------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | 0.68 | 0.54 | 0.13 | ug/L | U of Idaho |
| Lead | BDL | 0.43 | 0.25 | ug/L | U of Idaho |
| Mercury | BDL | | 0.5 | ug/L | U of Idaho |
| Nickel | 0.41 | 0.65 | 0.13 | ug/L | U of Idaho |
| Selenium | 1.2 | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 11 | 94 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 100 | 37 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 30 | 22 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 200 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 72 | 140 | 25 | ug/L | U of Idaho |
| Calcium | 55000 | 50000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 2100 | | 100 | ug/L | U of Idaho |
| Fluoride | 110 | | 100 | ug/L | U of Idaho |
| Gross Alpha Radiation | 2.7 +/- 3 | | 2.8 | pCi/L | ACZ Laboratories |
| Gross Beta Radiation | 1.6 +/- 3.3 | | 4.4 | pCi/L | ACZ Laboratories |
| Hardness | | 191 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 200 | 50 | 10 | ug/L | U of Idaho |
| Magnesium | 17000 | 16000 | 5 | ug/L | U of Idaho |
| Manganese | 38 | 16 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Potassium | 800 | 670 | 500 | ug/L | U of Idaho |
| Sodium | BDL | 2900 | 2000 | ug/L | U of Idaho |
| Sulfate | 6800 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 200 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 210 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 5 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 46 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | 4 | | 4 | mg/L | U of Idaho |
| Uranium | 1 | 1.1 | 0.1 | ug/L | U of Idaho |
| Vanadium | 2.9 | 2.2 | 0.25 | ug/L | U of Idaho |

Station: DCMTT028

Matrix: surface water

Sample Date: 6/13/2001

Event: 2

Sample Type: FO

SAMPLE ID SW-DCMTT028-102

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | 0.71 | 0.81 | 0.5 | ug/L | U of Idaho |
| Copper | 1.3 | BDL | 0.13 | ug/L | U of Idaho |
| Lead | 0.26 | BDL | 0.25 | ug/L | U of Idaho |
| Nickel | 0.42 | 1.6 | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | 1.6 | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 10 | 13 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 65 | 32 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 30 | 28 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 210 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 64 | 130 | 25 | ug/L | U of Idaho |
| Calcium | 58000 | 54000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | 13 | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 2000 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Hardness | | 209 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 110 | 30 | 10 | ug/L | U of Idaho |
| Magnesium | 17000 | 18000 | 5 | ug/L | U of Idaho |
| Manganese | 18 | 15 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Potassium | 590 | 620 | 500 | ug/L | U of Idaho |
| Sodium | 3200 | 3300 | 2000 | ug/L | U of Idaho |
| Sulfate | 7100 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 220 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 240 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 4 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 35 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 1.6 | 1 | 0.1 | ug/L | U of Idaho |
| Vanadium | 1.9 | 1.1 | 0.25 | ug/L | U of Idaho |

Station: DCMTT028**Matrix:** surface water**Sample Date:** 9/18/2001**Event:** 3**Sample Type:** FO**SAMPLE ID** SW-DCMTT028-103

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|--------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | 0.0006 | | 0.0002 | ug/L | ACZ Laboratories |
| Nickel | 0.91 | 0.2 | 0.13 | ug/L | U of Idaho |
| Selenium | 1.6 | 1.1 | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 12 | 13 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 17 | 15 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 27 | 31 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 170 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 62 | 120 | 25 | ug/L | U of Idaho |
| Calcium | 55000 | 55000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | 45 | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 1800 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Hardness | | 216 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Magnesium | 18000 | 19000 | 5 | ug/L | U of Idaho |
| Manganese | 14 | 10 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Sulfate | 5900 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 210 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 220 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 1 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 32 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 1 | 1.1 | 0.1 | ug/L | U of Idaho |
| Vanadium | 1.2 | BDL | 0.25 | ug/L | U of Idaho |

Station: DIATT018**Matrix:** surface water**Sample Date:** 5/16/2001**Event:** 1**Sample Type:** SPL**SAMPLE ID** E0100360-4

| | UNF Result | FIL Result | MDL | Units | Lab |
|---------|------------|------------|--------|-------|------------------|
| Mercury | 0.0015 | | 0.0002 | ug/L | ACZ Laboratories |

Station: DIATT018

Matrix: surface water

Sample Date: 5/16/2001

Event: 1

Sample Type: FO

SAMPLE ID SW-DIATT018-101

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|--------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | 0.24 | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | 0.29 | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | BDL | | 0.5 | ug/L | U of Idaho |
| Nickel | BDL | 0.26 | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 12 | 46 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 45 | 14 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 27 | 20 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 190 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 68 | 160 | 25 | ug/L | U of Idaho |
| Calcium | 57000 | 53000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 1500 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Gross Alpha Radiation | 1.2 +/- 2.3 | | 2.5 | pCi/L | ACZ Laboratories |
| Gross Beta Radiation | 0.88 +/- 3.2 | | 4.2 | pCi/L | ACZ Laboratories |
| Hardness | | 182 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 67 | 15 | 10 | ug/L | U of Idaho |
| Magnesium | 13000 | 12000 | 5 | ug/L | U of Idaho |
| Manganese | 14 | 6.8 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Potassium | 530 | BDL | 500 | ug/L | U of Idaho |
| Sodium | 3400 | 3200 | 2000 | ug/L | U of Idaho |
| Sulfate | 11000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 190 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 230 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | BDL | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 32 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 0.79 | 0.61 | 0.1 | ug/L | U of Idaho |
| Vanadium | 1.3 | 0.59 | 0.25 | ug/L | U of Idaho |

Station: DIATT018

Matrix: surface water

Sample Date: 6/14/2001

Event: 2

Sample Type: FO

SAMPLE ID SW-DIATT018-102

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | 0.14 | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Nickel | BDL | 0.54 | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | 12 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 40 | 23 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 15 | 28 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 200 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 42 | 180 | 25 | ug/L | U of Idaho |
| Calcium | 55000 | 56000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 1400 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Hardness | | 193 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 35 | 10 | 10 | ug/L | U of Idaho |
| Magnesium | 13000 | 13000 | 5 | ug/L | U of Idaho |
| Manganese | 11 | 12 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | 130 | | 100 | ug/L | U of Idaho |
| Potassium | 590 | 510 | 500 | ug/L | U of Idaho |
| Sodium | 4400 | 4100 | 2000 | ug/L | U of Idaho |
| Sulfate | 9900 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 200 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 220 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 1 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 38 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 0.6 | 0.56 | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | BDL | 0.25 | ug/L | U of Idaho |

Station: DIATT018

Matrix: surface water

Sample Date: 9/20/2001

Event: 3

Sample Type: FO

SAMPLE ID SW-DIATT018-103

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|--------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Lead | 0.29 | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | 0.0015 | | 0.0002 | ug/L | ACZ Laboratories |
| Nickel | 1.2 | 1.2 | 0.13 | ug/L | U of Idaho |
| Selenium | 1.6 | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | 10 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 20 | 20 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 22 | 25 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 200 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 65 | 58 | 25 | ug/L | U of Idaho |
| Calcium | 57000 | 59000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 1200 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Hardness | | 205 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Magnesium | 12000 | 14000 | 5 | ug/L | U of Idaho |
| Manganese | 19 | 14 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Sulfate | 9500 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 200 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 220 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 2 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 32 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 0.51 | 0.62 | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | BDL | 0.25 | ug/L | U of Idaho |

Station: EMCNTT045

Matrix: surface water

Sample Date: 7/26/2001

Event: 4

Sample Type: FO

| SAMPLE ID EMCNTT045 | | | | | |
|------------------------|------------|------------|--------|-------|------------------|
| | UNF Result | FIL Result | MDL | Units | Lab |
| Arsenic | BDL | BDL | 0.5 | ug/L | ACZ Laboratories |
| Cadmium | 0.7 | 0.7 | 0.1 | ug/L | ACZ Laboratories |
| Chromium | 4.6 | 4.6 | 0.1 | ug/L | ACZ Laboratories |
| Copper | 2.3 | 2.3 | 0.5 | ug/L | ACZ Laboratories |
| Lead | 0.7 | 0.7 | 0.1 | ug/L | ACZ Laboratories |
| Mercury | 0.0094 | 0.0094 | 0.0002 | ug/L | ACZ Laboratories |
| Nickel | 5.4 | 5.4 | 0.2 | ug/L | ACZ Laboratories |
| Selenium | 38 | 38 | 1 | ug/L | ACZ Laboratories |
| Silver | 0.07 | 0.07 | 0.05 | ug/L | ACZ Laboratories |
| Zinc | 50 | 50 | 10 | ug/L | ACZ Laboratories |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 760 | 760 | 0.5 | ug/L | ACZ Laboratories |
| Antimony | BDL | BDL | 0.2 | ug/L | ACZ Laboratories |
| Barium | 34 | 34 | 3 | ug/L | ACZ Laboratories |
| Beryllium | BDL | BDL | 0.1 | ug/L | ACZ Laboratories |
| Bicarbonate Alkalinity | 184 | 184 | 2 | mg/L | ACZ Laboratories |
| Boron | 10 | 10 | 10 | ug/L | ACZ Laboratories |
| Calcium | 52200 | 52200 | 200 | ug/L | ACZ Laboratories |
| Carbonate Alkalinity | BDL | BDL | 2 | mg/L | ACZ Laboratories |
| Hydroxide Alkalinity | BDL | BDL | 2 | mg/L | ACZ Laboratories |
| Magnesium | 11800 | 11800 | 200 | ug/L | ACZ Laboratories |
| Manganese | 119 | 119 | 5 | ug/L | ACZ Laboratories |
| Molybdenum | 0.3 | 0.3 | 0.1 | ug/L | ACZ Laboratories |
| Thallium | BDL | BDL | 0.05 | ug/L | ACZ Laboratories |
| Total Alkalinity | 184000 | 184000 | 2000 | ug/L | ACZ Laboratories |
| Total Organic Carbon | 2 | 2 | 1 | mg/L | ACZ Laboratories |
| Uranium | 0.55 | 0.55 | 0.05 | ug/L | ACZ Laboratories |
| Vanadium | 4.76 | 4.76 | 0.05 | ug/L | ACZ Laboratories |

Station: EMCTT017

Matrix: surface water

Sample Date: 5/17/2001

Event: 1

Sample Type: SPL

SAMPLE ID E0100380-3

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------|------------|------------|------|-------|------------------|
| Arsenic | 1.5 | 1.2 | 0.5 | ug/L | ACZ Laboratories |
| Cadmium | 0.1 | BDL | 0.1 | ug/L | ACZ Laboratories |
| Chromium | 1.8 | 0.9 | 0.1 | ug/L | ACZ Laboratories |
| Copper | BDL | 1 | 3 | ug/L | ACZ Laboratories |
| Lead | 0.1 | BDL | 0.1 | ug/L | ACZ Laboratories |
| Nickel | 1.9 | 1.3 | 0.2 | ug/L | ACZ Laboratories |
| Selenium | 230 | 220 | 10 | ug/L | ACZ Laboratories |
| Silver | BDL | BDL | 0.05 | ug/L | ACZ Laboratories |
| Zinc | 100 | 90 | 50 | ug/L | ACZ Laboratories |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 175 | 10.2 | 3 | ug/L | ACZ Laboratories |
| Antimony | BDL | 0.3 | 0.2 | ug/L | ACZ Laboratories |
| Barium | 29 | 27 | 3 | ug/L | ACZ Laboratories |
| Beryllium | BDL | BDL | 0.1 | ug/L | ACZ Laboratories |
| Boron | 20 | 20 | 10 | ug/L | ACZ Laboratories |
| Calcium | 63300 | 62200 | 200 | ug/L | ACZ Laboratories |
| Iron | 260 | BDL | 10 | ug/L | ACZ Laboratories |
| Magnesium | 15000 | 14600 | 200 | ug/L | ACZ Laboratories |
| Manganese | 24 | BDL | 5 | ug/L | ACZ Laboratories |
| Molybdenum | 0.3 | 0.3 | 0.1 | ug/L | ACZ Laboratories |
| Potassium | 600 | 700 | 300 | ug/L | ACZ Laboratories |
| Sodium | 4600 | 4600 | 300 | ug/L | ACZ Laboratories |
| Thallium | BDL | BDL | 0.05 | ug/L | ACZ Laboratories |
| Uranium | 0.42 | 0.37 | 0.05 | ug/L | ACZ Laboratories |
| Vanadium | 0.8 | 0.8 | 0.3 | ug/L | ACZ Laboratories |

Station: EMCTT017

Matrix: surface water

Sample Date: 5/17/2001

Event: 1

Sample Type: SPL

SAMPLE ID E0100380-4

| | UNF Result | FIL Result | MDL | Units | Lab |
|----------|------------|------------|--------|-------|------------------|
| Arsenic | | 1.2 | 0.5 | ug/L | ACZ Laboratories |
| Cadmium | | BDL | 0.1 | ug/L | ACZ Laboratories |
| Chromium | | 0.9 | 0.1 | ug/L | ACZ Laboratories |
| Copper | | 1 | 0.5 | ug/L | ACZ Laboratories |
| Lead | | BDL | 0.1 | ug/L | ACZ Laboratories |
| Mercury | 0.0034 | | 0.0002 | ug/L | ACZ Laboratories |
| Nickel | | 1.3 | 0.2 | ug/L | ACZ Laboratories |
| Selenium | | 220 | 10 | ug/L | ACZ Laboratories |
| Silver | | BDL | 0.05 | ug/L | ACZ Laboratories |
| Zinc | | 90 | 50 | ug/L | ACZ Laboratories |

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------|------------|------------|------|-------|------------------|
| Aluminum | | 10.2 | 0.5 | ug/L | ACZ Laboratories |
| Antimony | | 0.3 | 0.2 | ug/L | ACZ Laboratories |
| Barium | | 27 | 3 | ug/L | ACZ Laboratories |
| Beryllium | | BDL | 0.1 | ug/L | ACZ Laboratories |
| Boron | | 20 | 10 | ug/L | ACZ Laboratories |
| Calcium | | 62200 | 200 | ug/L | ACZ Laboratories |
| Iron | | BDL | 10 | ug/L | ACZ Laboratories |
| Magnesium | | 14600 | 200 | ug/L | ACZ Laboratories |
| Manganese | | BDL | 5 | ug/L | ACZ Laboratories |
| Molybdenum | | 0.3 | 0.1 | ug/L | ACZ Laboratories |
| Potassium | | 700 | 300 | ug/L | ACZ Laboratories |
| Sodium | | 4600 | 300 | ug/L | ACZ Laboratories |
| Thallium | | BDL | 0.05 | ug/L | ACZ Laboratories |
| Uranium | | 0.37 | 0.05 | ug/L | ACZ Laboratories |
| Vanadium | | 0.8 | 0.05 | ug/L | ACZ Laboratories |

Station: EMCTT017

Matrix: surface water

Sample Date: 5/17/2001

Event: 1

Sample Type: FO

SAMPLE ID SW-EMCTT017-101

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|-------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | 2.3 | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | 1.2 | BDL | 0.5 | ug/L | U of Idaho |
| Copper | 0.74 | 0.15 | 0.13 | ug/L | U of Idaho |
| Lead | 26 | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | BDL | | 0.5 | ug/L | U of Idaho |
| Nickel | 1.3 | BDL | 0.13 | ug/L | U of Idaho |
| Selenium | 130 | 170 | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 69 | BDL | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 140 | 48 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 25 | 28 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 170 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 100 | 51 | 25 | ug/L | U of Idaho |
| Calcium | 57000 | 62000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | 5 | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 2100 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Gross Alpha Radiation | 2.1 +/- 2.7 | | 2.6 | pCi/L | ACZ Laboratories |
| Gross Beta Radiation | 0 +/- 2.9 | | 4.2 | pCi/L | ACZ Laboratories |
| Hardness | | 217 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 240 | BDL | 10 | ug/L | U of Idaho |
| Magnesium | 14000 | 15000 | 5 | ug/L | U of Idaho |
| Manganese | 19 | 4.9 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | 490 | | 100 | ug/L | U of Idaho |
| Potassium | 580 | 560 | 500 | ug/L | U of Idaho |
| Sodium | 4300 | 4300 | 2000 | ug/L | U of Idaho |
| Sulfate | 34000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 180 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 250 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 3 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 74 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | 8 | | 4 | mg/L | U of Idaho |
| Uranium | 0.55 | 0.45 | 0.1 | ug/L | U of Idaho |
| Vanadium | 1.8 | 0.86 | 0.25 | ug/L | U of Idaho |

Station: EMCTT017

Matrix: surface water

Sample Date: 5/17/2001

Event: 1

Sample Type: FD

SAMPLE ID SW-EMCTT017-201

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | 0.19 | 0.24 | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | 0.27 | 0.13 | ug/L | U of Idaho |
| Lead | 0.33 | 0.41 | 0.25 | ug/L | U of Idaho |
| Mercury | BDL | | 0.5 | ug/L | U of Idaho |
| Nickel | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Selenium | 160 | 190 | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 76 | BDL | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | BDL | 84 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 24 | 28 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 180 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 120 | 98 | 25 | ug/L | U of Idaho |
| Calcium | 57000 | 62000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | 6 | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 2100 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Gross Alpha Radiation | 0 +/- 1.9 | | 2.4 | pCi/L | ACZ Laboratories |
| Gross Beta Radiation | 1.9 +/- 3 | | 4 | pCi/L | ACZ Laboratories |
| Hardness | | 212 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 190 | BDL | 10 | ug/L | U of Idaho |
| Magnesium | 14000 | 14000 | 5 | ug/L | U of Idaho |
| Manganese | 18 | 4.4 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | 570 | | 100 | ug/L | U of Idaho |
| Potassium | 600 | BDL | 500 | ug/L | U of Idaho |
| Sodium | 4300 | 4600 | 2000 | ug/L | U of Idaho |
| Sulfate | 33000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 190 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 260 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | BDL | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 81 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | 8 | | 4 | mg/L | U of Idaho |
| Uranium | 0.24 | 0.7 | 0.1 | ug/L | U of Idaho |
| Vanadium | 0.4 | 1 | 0.25 | ug/L | U of Idaho |

Station: EMCTT017

Matrix: surface water

Sample Date: 6/14/2001

Event: 2

Sample Type: FO

SAMPLE ID SW-EMCTT017-102

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Nickel | BDL | 1.1 | 0.13 | ug/L | U of Idaho |
| Selenium | 91 | 88 | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | 14 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 120 | 26 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 15 | 22 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 190 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 90 | 120 | 25 | ug/L | U of Idaho |
| Calcium | 54000 | 52000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 2000 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Hardness | | 175 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 680 | 16 | 10 | ug/L | U of Idaho |
| Magnesium | 14000 | 11000 | 5 | ug/L | U of Idaho |
| Manganese | 18 | 24 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | 330 | | 100 | ug/L | U of Idaho |
| Potassium | 590 | 1300 | 500 | ug/L | U of Idaho |
| Sodium | 4400 | 5300 | 2000 | ug/L | U of Idaho |
| Sulfate | 23000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 190 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 240 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 2 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 68 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | 6 | | 4 | mg/L | U of Idaho |
| Uranium | 0.43 | 0.48 | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | 0.66 | 0.25 | ug/L | U of Idaho |

Station: EMCTT017

Matrix: surface water

Sample Date: 6/15/2001

Event: 2

Sample Type: 4D

SAMPLE ID SW-EMCTT017-202

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Nickel | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Selenium | 14 | 88 | 1 | ug/L | U of Idaho |
| Silver | 0.35 | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | BDL | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 78 | 20 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 14 | 13 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 190 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 38 | 42 | 25 | ug/L | U of Idaho |
| Calcium | 54000 | 48000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 2300 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Hardness | | 173 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 88 | 18 | 10 | ug/L | U of Idaho |
| Magnesium | 13000 | 13000 | 5 | ug/L | U of Idaho |
| Manganese | 15 | 3 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | 380 | | 100 | ug/L | U of Idaho |
| Potassium | BDL | BDL | 500 | ug/L | U of Idaho |
| Sodium | 5000 | 4900 | 2000 | ug/L | U of Idaho |
| Sulfate | 17000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 190 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 200 | | 40 | mg/L | U of Idaho |
| Total Phosphorus | 55 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 0.39 | 0.39 | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | BDL | 0.25 | ug/L | U of Idaho |

Station: EMCTT017

Matrix: surface water

Sample Date: 6/16/2001

Event: 2

Sample Type: 4D

SAMPLE ID SW-EMCTT017-302

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | 0.72 | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Lead | BDL | 7 | 0.25 | ug/L | U of Idaho |
| Nickel | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Selenium | 22 | 95 | 1 | ug/L | U of Idaho |
| Silver | 0.84 | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | BDL | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 90 | 17 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 20 | 14 | 10 | ug/L | U of Idaho |
| Beryllium | 5 | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 190 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 50 | 53 | 25 | ug/L | U of Idaho |
| Calcium | 54000 | 53000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 2300 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Hardness | | 190 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 81 | BDL | 10 | ug/L | U of Idaho |
| Magnesium | 14000 | 14000 | 5 | ug/L | U of Idaho |
| Manganese | 15 | 2.8 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | 250 | | 100 | ug/L | U of Idaho |
| Potassium | 510 | BDL | 500 | ug/L | U of Idaho |
| Sodium | 4700 | 4800 | 2000 | ug/L | U of Idaho |
| Sulfate | 17000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 190 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 230 | | 40 | mg/L | U of Idaho |
| Total Phosphorus | 45 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 0.4 | 0.39 | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | BDL | 0.25 | ug/L | U of Idaho |

Station: EMCTT017

Matrix: surface water

Sample Date: 9/21/2001

Event: 3

Sample Type: FO

SAMPLE ID SW-EMCTT017-103

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|--------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | 0.0006 | | 0.0002 | ug/L | ACZ Laboratories |
| Nickel | 1.3 | BDL | 0.13 | ug/L | U of Idaho |
| Selenium | 22 | 21 | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | 14 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 13 | 14 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 23 | 27 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 180 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 74 | 60 | 25 | ug/L | U of Idaho |
| Calcium | 54000 | 54000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 1800 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Hardness | | 188 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Magnesium | 12000 | 13000 | 5 | ug/L | U of Idaho |
| Manganese | 8.5 | BDL | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | 260 | | 100 | ug/L | U of Idaho |
| Sulfate | 9000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 180 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 240 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 4 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 38 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 0.31 | 0.34 | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | BDL | 0.25 | ug/L | U of Idaho |

Station: EMCTT017**Matrix:** surface water**Sample Date:** 9/21/2001**Event:** 3**Sample Type:** SPL**SAMPLE ID** SW-EMCTT017-SP3U

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------|-------------------|-------------------|------------|--------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | ACZ Laboratories |
| Cadmium | BDL | BDL | 0.1 | ug/L | ACZ Laboratories |
| Chromium | 0.5 | 0.4 | 0.1 | ug/L | ACZ Laboratories |
| Copper | BDL | BDL | 10 | ug/L | ACZ Laboratories |
| Lead | 0.1 | BDL | 0.1 | ug/L | ACZ Laboratories |
| Nickel | 2 | 1.7 | 0.2 | ug/L | ACZ Laboratories |
| Selenium | 18 | 19 | 1 | ug/L | ACZ Laboratories |
| Silver | BDL | BDL | 0.05 | ug/L | ACZ Laboratories |
| Zinc | BDL | BDL | 10 | ug/L | ACZ Laboratories |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 39 | 4 | 1 | ug/L | ACZ Laboratories |
| Antimony | BDL | BDL | 0.2 | ug/L | ACZ Laboratories |
| Barium | 26 | 26 | 3 | ug/L | ACZ Laboratories |
| Beryllium | BDL | BDL | 2 | ug/L | ACZ Laboratories |
| Boron | 20 | 20 | 10 | ug/L | ACZ Laboratories |
| Manganese | 9 | BDL | 5 | ug/L | ACZ Laboratories |
| Molybdenum | 0.1 | 0.1 | 0.1 | ug/L | ACZ Laboratories |
| Thallium | BDL | BDL | 0.05 | ug/L | ACZ Laboratories |
| Uranium | 0.32 | 0.31 | 0.05 | ug/L | ACZ Laboratories |
| Vanadium | 0.34 | 0.66 | 0.05 | ug/L | ACZ Laboratories |

Station: EMCTT043

Matrix: surface water

Sample Date: 7/25/2001

Event: 4

Sample Type: FO

SAMPLE ID EMCTT043

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|--------|-------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | ACZ Laboratories |
| Cadmium | BDL | BDL | 0.1 | ug/L | ACZ Laboratories |
| Chromium | 0.3 | 0.3 | 0.1 | ug/L | ACZ Laboratories |
| Copper | BDL | BDL | 0.5 | ug/L | ACZ Laboratories |
| Lead | BDL | BDL | 0.1 | ug/L | ACZ Laboratories |
| Mercury | 0.0014 | 0.0014 | 0.0002 | ug/L | ACZ Laboratories |
| Nickel | 1.2 | 1.2 | 0.2 | ug/L | ACZ Laboratories |
| Selenium | 36 | 36 | 1 | ug/L | ACZ Laboratories |
| Silver | BDL | BDL | 0.05 | ug/L | ACZ Laboratories |
| Zinc | 20 | 20 | 10 | ug/L | ACZ Laboratories |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 64.6 | 64.6 | 0.5 | ug/L | ACZ Laboratories |
| Antimony | BDL | BDL | 0.2 | ug/L | ACZ Laboratories |
| Barium | 24 | 24 | 3 | ug/L | ACZ Laboratories |
| Beryllium | BDL | BDL | 0.1 | ug/L | ACZ Laboratories |
| Bicarbonate Alkalinity | 182 | 182 | 2 | mg/L | ACZ Laboratories |
| Boron | 10 | 10 | 10 | ug/L | ACZ Laboratories |
| Calcium | 50200 | 50200 | 200 | ug/L | ACZ Laboratories |
| Carbonate Alkalinity | BDL | BDL | 2 | mg/L | ACZ Laboratories |
| Hydroxide Alkalinity | BDL | BDL | 2 | mg/L | ACZ Laboratories |
| Magnesium | 12100 | 12100 | 200 | ug/L | ACZ Laboratories |
| Manganese | 12 | 12 | 5 | ug/L | ACZ Laboratories |
| Molybdenum | BDL | BDL | 0.1 | ug/L | ACZ Laboratories |
| Thallium | BDL | BDL | 0.05 | ug/L | ACZ Laboratories |
| Total Alkalinity | 182000 | 182000 | 2000 | ug/L | ACZ Laboratories |
| Total Organic Carbon | BDL | BDL | 1 | mg/L | ACZ Laboratories |
| Uranium | 0.35 | 0.35 | 0.05 | ug/L | ACZ Laboratories |
| Vanadium | 0.72 | 0.72 | 0.05 | ug/L | ACZ Laboratories |

Station: EMCTT043

Matrix: surface water

Sample Date: 7/25/2001

Event: 4

Sample Type: SPL

SAMPLE ID L33160-2

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------|------------|------------|------|-------|------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | 1.6 | 1.6 | 0.5 | ug/L | U of Idaho |
| Copper | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Nickel | 1.1 | 1.1 | 0.13 | ug/L | U of Idaho |
| Selenium | 34 | 34 | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 12 | 12 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 76 | 76 | 1 | ug/L | U of Idaho |
| Antimony | 7 | 7 | 2.5 | ug/L | U of Idaho |
| Barium | 22 | 22 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Boron | 160 | 160 | 25 | ug/L | U of Idaho |
| Calcium | 53000 | 53000 | 20 | ug/L | U of Idaho |
| Iron | 97 | 97 | 10 | ug/L | U of Idaho |
| Magnesium | 12000 | 12000 | 5 | ug/L | U of Idaho |
| Manganese | 12 | 12 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Potassium | 570 | 570 | 500 | ug/L | U of Idaho |
| Sodium | 4100 | 4100 | 2000 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Uranium | 0.43 | 0.43 | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | BDL | 0.25 | ug/L | U of Idaho |

Station: FIELD_QC

Matrix: surface water

Sample Date: 5/17/2001

Event: 1

Sample Type: ER

SAMPLE ID DW-X1-101

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|---------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | 0.33 | BDL | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | BDL | | 0.5 | ug/L | U of Idaho |
| Nickel | 0.6 | BDL | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 70 | BDL | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 6.4 | 24 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | BDL | BDL | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 37 | 62 | 25 | ug/L | U of Idaho |
| Calcium | 48 | 60 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | BDL | | 100 | ug/L | U of Idaho |
| Fluoride | +/- | | 100 | ug/L | U of Idaho |
| Gross Alpha Radiation | 0.11 +/- 0.96 | | 1.2 | pCi/L | ACZ Laboratories |
| Gross Beta Radiation | 0 +/- 2.7 | | 3.8 | pCi/L | ACZ Laboratories |
| Hardness | | 0 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | BDL | BDL | 10 | ug/L | U of Idaho |
| Magnesium | BDL | BDL | 5 | ug/L | U of Idaho |
| Manganese | BDL | 2.9 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Potassium | BDL | BDL | 500 | ug/L | U of Idaho |
| Sodium | BDL | BDL | 2000 | ug/L | U of Idaho |
| Sulfate | BDL | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | BDL | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | BDL | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | BDL | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | BDL | BDL | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | 1.1 | 0.25 | ug/L | U of Idaho |

Station: FIELD_QC

Matrix: surface water

Sample Date: 5/18/2001

Event: 1

Sample Type: ER

SAMPLE ID DW-X2-101

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | 1.1 | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | BDL | | 0.5 | ug/L | U of Idaho |
| Nickel | BDL | 1.6 | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | 89 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 22 | 9.2 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | BDL | BDL | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 93 | 60 | 25 | ug/L | U of Idaho |
| Calcium | 49 | 36 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | BDL | | 100 | ug/L | U of Idaho |
| Fluoride | +/- | | 100 | ug/L | U of Idaho |
| Gross Alpha Radiation | 0 +/- 1 | | 1.2 | pCi/L | ACZ Laboratories |
| Gross Beta Radiation | 0 +/- 2.8 | | 3.9 | pCi/L | ACZ Laboratories |
| Hardness | | 0 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | BDL | 14 | 10 | ug/L | U of Idaho |
| Magnesium | BDL | BDL | 5 | ug/L | U of Idaho |
| Manganese | 2.1 | BDL | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Potassium | BDL | BDL | 500 | ug/L | U of Idaho |
| Sodium | BDL | BDL | 2000 | ug/L | U of Idaho |
| Sulfate | BDL | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | BDL | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | BDL | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | BDL | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | BDL | BDL | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | 0.34 | 0.25 | ug/L | U of Idaho |

Station: FIELD_QC

Matrix: surface water

Sample Date: 5/17/2001

Event: 1

Sample Type: FB

SAMPLE ID DW-Y1-101

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|-------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | 1.1 | BDL | 0.5 | ug/L | U of Idaho |
| Copper | 0.28 | BDL | 0.13 | ug/L | U of Idaho |
| Lead | BDL | 0.5 | 0.25 | ug/L | U of Idaho |
| Mercury | BDL | | 0.5 | ug/L | U of Idaho |
| Nickel | 0.58 | BDL | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 72 | BDL | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 9.3 | 39 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | BDL | BDL | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 110 | 110 | 25 | ug/L | U of Idaho |
| Calcium | 120 | 120 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | BDL | | 100 | ug/L | U of Idaho |
| Fluoride | +/- | | 100 | ug/L | U of Idaho |
| Gross Alpha Radiation | 1.2 +/- 1.3 | | 1.2 | pCi/L | ACZ Laboratories |
| Gross Beta Radiation | 3.3 +/- 3.2 | | 4.2 | pCi/L | ACZ Laboratories |
| Hardness | | 0 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 21 | BDL | 10 | ug/L | U of Idaho |
| Magnesium | BDL | BDL | 5 | ug/L | U of Idaho |
| Manganese | BDL | 2.5 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | 210 | | 100 | ug/L | U of Idaho |
| Potassium | BDL | BDL | 500 | ug/L | U of Idaho |
| Sodium | BDL | BDL | 2000 | ug/L | U of Idaho |
| Sulfate | +/- | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | BDL | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | BDL | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | BDL | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | BDL | BDL | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | BDL | 0.25 | ug/L | U of Idaho |

Station: FIELD_QC

Matrix: surface water

Sample Date: 6/15/2001

Event: 2

Sample Type: ER

SAMPLE ID DW-X1-102

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Nickel | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | BDL | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 10 | 37 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | BDL | BDL | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 4 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | BDL | 90 | 25 | ug/L | U of Idaho |
| Calcium | 340 | 310 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 130 | | 100 | ug/L | U of Idaho |
| Fluoride | +/- | | 100 | ug/L | U of Idaho |
| Hardness | | 1 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | BDL | BDL | 10 | ug/L | U of Idaho |
| Magnesium | 22 | 20 | 5 | ug/L | U of Idaho |
| Manganese | BDL | BDL | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | 190 | | 100 | ug/L | U of Idaho |
| Potassium | BDL | BDL | 500 | ug/L | U of Idaho |
| Sodium | BDL | BDL | 2000 | ug/L | U of Idaho |
| Sulfate | 370 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 4 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | BDL | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 1 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | BDL | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | BDL | BDL | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | BDL | 0.25 | ug/L | U of Idaho |

Station: FIELD_QC

Matrix: surface water

Sample Date: 6/15/2001

Event: 2

Sample Type: ER

SAMPLE ID DW-X2-102

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | 0.15 | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | 1.2 | 0.5 | ug/L | U of Idaho |
| Copper | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Nickel | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | BDL | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 11 | 18 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | BDL | BDL | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 4 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | BDL | 52 | 25 | ug/L | U of Idaho |
| Calcium | BDL | BDL | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 350 | | 100 | ug/L | U of Idaho |
| Fluoride | +/- | | 100 | ug/L | U of Idaho |
| Hardness | | 0 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | BDL | BDL | 10 | ug/L | U of Idaho |
| Magnesium | BDL | BDL | 5 | ug/L | U of Idaho |
| Manganese | BDL | BDL | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | 490 | | 100 | ug/L | U of Idaho |
| Potassium | BDL | BDL | 500 | ug/L | U of Idaho |
| Sodium | BDL | BDL | 2000 | ug/L | U of Idaho |
| Sulfate | BDL | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 4 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | BDL | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 10 | | 10 | mg/L | ACZ Laboratories |
| Total Phosphorus | 29 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | BDL | BDL | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | BDL | 0.25 | ug/L | U of Idaho |

Station: FIELD_QC

Matrix: surface water

Sample Date: 6/14/2001

Event: 2

Sample Type: ER

SAMPLE ID DW-X3-102

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Nickel | BDL | 0.23 | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | BDL | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 15 | 16 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | BDL | BDL | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 30 | 110 | 25 | ug/L | U of Idaho |
| Calcium | 230 | 56 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 290 | | 100 | ug/L | U of Idaho |
| Fluoride | +/- | | 100 | ug/L | U of Idaho |
| Hardness | | 0 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | BDL | BDL | 10 | ug/L | U of Idaho |
| Magnesium | BDL | BDL | 5 | ug/L | U of Idaho |
| Manganese | BDL | 4 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | 350 | | 100 | ug/L | U of Idaho |
| Potassium | BDL | BDL | 500 | ug/L | U of Idaho |
| Sodium | BDL | BDL | 2000 | ug/L | U of Idaho |
| Sulfate | BDL | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | BDL | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | BDL | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | BDL | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | BDL | BDL | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | BDL | 0.25 | ug/L | U of Idaho |

Station: FIELD_QC

Matrix: surface water

Sample Date: 6/13/2001

Event: 2

Sample Type: FB

SAMPLE ID DW-Y1-102

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------------|
| Arsenic | BDL | | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | | 0.5 | ug/L | U of Idaho |
| Copper | BDL | | 0.13 | ug/L | U of Idaho |
| Lead | 0.29 | | 0.25 | ug/L | U of Idaho |
| Nickel | 2.4 | | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | | 1 | ug/L | U of Idaho |
| Silver | BDL | | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 14 | | 1 | ug/L | U of Idaho |
| Antimony | BDL | | 2.5 | ug/L | U of Idaho |
| Barium | BDL | | 10 | ug/L | U of Idaho |
| Beryllium | BDL | | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 4 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 36 | | 25 | ug/L | U of Idaho |
| Calcium | BDL | | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 220 | | 100 | ug/L | U of Idaho |
| Fluoride | +/- | | 100 | ug/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 10 | | 10 | ug/L | U of Idaho |
| Magnesium | BDL | | 5 | ug/L | U of Idaho |
| Manganese | BDL | | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | 200 | | 100 | ug/L | U of Idaho |
| Potassium | BDL | | 500 | ug/L | U of Idaho |
| Sodium | BDL | | 2000 | ug/L | U of Idaho |
| Sulfate | BDL | | 200 | ug/L | U of Idaho |
| Thallium | BDL | | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 4 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | BDL | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | BDL | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | BDL | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | BDL | | 0.1 | ug/L | U of Idaho |
| Vanadium | 0.27 | | 0.25 | ug/L | U of Idaho |

Station: FIELD_QC

Matrix: surface water

Sample Date: 9/19/2001

Event: 3

Sample Type: ER

SAMPLE ID DW-X1-103

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|--------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | 0.72 | 0.5 | ug/L | U of Idaho |
| Copper | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | BDL | | 0.0002 | ug/L | ACZ Laboratories |
| Nickel | BDL | 4.5 | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | BDL | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | BDL | 29 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | BDL | BDL | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 56 | 82 | 25 | ug/L | U of Idaho |
| Calcium | 180 | 200 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | BDL | | 100 | ug/L | U of Idaho |
| Fluoride | +/- | | 100 | ug/L | U of Idaho |
| Hardness | | 1 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Magnesium | 31 | 43 | 5 | ug/L | U of Idaho |
| Manganese | BDL | BDL | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Sulfate | BDL | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | BDL | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | BDL | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | BDL | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | BDL | BDL | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | BDL | 0.25 | ug/L | U of Idaho |

Station: FIELD_QC

Matrix: surface water

Sample Date: 9/20/2001

Event: 3

Sample Type: ER

SAMPLE ID

DW-X2-103

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|-------------------|-------------------|------------|--------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | 0.76 | 0.5 | ug/L | U of Idaho |
| Copper | BDL | 3 | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | 0.0004 | | 0.0002 | ug/L | ACZ Laboratories |
| Nickel | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Selenium | 1.1 | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | 11 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 1.9 | 34 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | BDL | BDL | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 34 | 44 | 25 | ug/L | U of Idaho |
| Calcium | BDL | 43 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | BDL | | 100 | ug/L | U of Idaho |
| Fluoride | +/- | | 100 | ug/L | U of Idaho |
| Hardness | | 0 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Magnesium | BDL | BDL | 5 | ug/L | U of Idaho |
| Manganese | BDL | BDL | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Sulfate | +/- | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | BDL | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 2 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | BDL | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | BDL | BDL | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | BDL | 0.25 | ug/L | U of Idaho |

Station: FIELD_QC

Matrix: surface water

Sample Date: 9/20/2001

Event: 3

Sample Type: FB

SAMPLE ID DW-Y1-103

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|--------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | 0.14 | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | 0.54 | 0.5 | ug/L | U of Idaho |
| Copper | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | 0.0003 | | 0.0002 | ug/L | ACZ Laboratories |
| Nickel | 0.13 | BDL | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | BDL | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 9.4 | 16 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | BDL | BDL | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 69 | 78 | 25 | ug/L | U of Idaho |
| Calcium | BDL | 22 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | BDL | | 100 | ug/L | U of Idaho |
| Fluoride | +/- | | 100 | ug/L | U of Idaho |
| Hardness | | 0 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Magnesium | BDL | BDL | 5 | ug/L | U of Idaho |
| Manganese | BDL | BDL | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | 2600 | | 100 | ug/L | U of Idaho |
| Sulfate | 240 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | 5.3 | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | BDL | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 30 | | 10 | mg/L | ACZ Laboratories |
| Total Phosphorus | BDL | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | BDL | 0.97 | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | BDL | 0.25 | ug/L | U of Idaho |

Station: GHCTT006

Matrix: surface water

Sample Date: 5/17/2001

Event: 1

Sample Type: SPL

SAMPLE ID E0100389-3

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------|------------|------------|------|-------|------------------|
| Arsenic | 1.5 | 1.2 | 0.5 | ug/L | ACZ Laboratories |
| Cadmium | BDL | BDL | 0.1 | ug/L | ACZ Laboratories |
| Chromium | 0.7 | 0.9 | 0.1 | ug/L | ACZ Laboratories |
| Copper | 1.2 | 1.4 | 0.5 | ug/L | ACZ Laboratories |
| Lead | BDL | BDL | 0.1 | ug/L | ACZ Laboratories |
| Nickel | 10.8 | 10.3 | 0.2 | ug/L | ACZ Laboratories |
| Selenium | 5 | 5 | 1 | ug/L | ACZ Laboratories |
| Silver | BDL | BDL | 0.05 | ug/L | ACZ Laboratories |
| Zinc | 90 | 50 | 50 | ug/L | ACZ Laboratories |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 49 | 3.1 | 0.5 | ug/L | ACZ Laboratories |
| Antimony | BDL | BDL | 0.2 | ug/L | ACZ Laboratories |
| Barium | 48 | 45 | 3 | ug/L | ACZ Laboratories |
| Beryllium | BDL | BDL | 0.1 | ug/L | ACZ Laboratories |
| Boron | 30 | 20 | 10 | ug/L | ACZ Laboratories |
| Calcium | 98300 | 98700 | 200 | ug/L | ACZ Laboratories |
| Iron | 520 | 80 | 10 | ug/L | ACZ Laboratories |
| Magnesium | 25200 | 25300 | 200 | ug/L | ACZ Laboratories |
| Manganese | 220 | 198 | 5 | ug/L | ACZ Laboratories |
| Molybdenum | 2.4 | 2.4 | 0.1 | ug/L | ACZ Laboratories |
| Potassium | 1300 | 1200 | 300 | ug/L | ACZ Laboratories |
| Sodium | 9200 | 9300 | 300 | ug/L | ACZ Laboratories |
| Thallium | BDL | BDL | 0.05 | ug/L | ACZ Laboratories |
| Uranium | 1.62 | 1.61 | 0.05 | ug/L | ACZ Laboratories |
| Vanadium | 1.48 | 1.34 | 0.05 | ug/L | ACZ Laboratories |

Station: GHCTT006

Matrix: surface water

Sample Date: 5/17/2001

Event: 1

Sample Type: SPL

SAMPLE ID E0100389-4

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------|------------|------------|--------|-------|------------------|
| Arsenic | | 1.2 | 0.5 | ug/L | ACZ Laboratories |
| Cadmium | | BDL | 0.1 | ug/L | ACZ Laboratories |
| Chromium | | 0.9 | 0.1 | ug/L | ACZ Laboratories |
| Copper | | 1.4 | 0.5 | ug/L | ACZ Laboratories |
| Lead | | BDL | 0.1 | ug/L | ACZ Laboratories |
| Mercury | 0.0029 | | 0.0002 | ug/L | ACZ Laboratories |
| Nickel | | 10.3 | 0.2 | ug/L | ACZ Laboratories |
| Selenium | | 5 | 1 | ug/L | ACZ Laboratories |
| Silver | | BDL | 0.05 | ug/L | ACZ Laboratories |
| Zinc | | 50 | 20 | ug/L | ACZ Laboratories |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | | 3.1 | 0.5 | ug/L | ACZ Laboratories |
| Antimony | | BDL | 0.2 | ug/L | ACZ Laboratories |
| Barium | | 45 | 3 | ug/L | ACZ Laboratories |
| Beryllium | | BDL | 0.1 | ug/L | ACZ Laboratories |
| Boron | | 20 | 10 | ug/L | ACZ Laboratories |
| Calcium | | 98700 | 200 | ug/L | ACZ Laboratories |
| Iron | | 80 | 10 | ug/L | ACZ Laboratories |
| Magnesium | | 25300 | 200 | ug/L | ACZ Laboratories |
| Manganese | | 198 | 5 | ug/L | ACZ Laboratories |
| Molybdenum | | 2.4 | 0.1 | ug/L | ACZ Laboratories |
| Potassium | | 1200 | 300 | ug/L | ACZ Laboratories |
| Sodium | | 9300 | 300 | ug/L | ACZ Laboratories |
| Thallium | | BDL | 0.05 | ug/L | ACZ Laboratories |
| Uranium | | 1.61 | 0.05 | ug/L | ACZ Laboratories |
| Vanadium | | 1.34 | 0.05 | ug/L | ACZ Laboratories |

Station: GHCTT006

Matrix: surface water

Sample Date: 5/17/2001

Event: 1

Sample Type: FO

SAMPLE ID SW-GHCTT006-101

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|-------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | 0.32 | 0.31 | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | 1.1 | 0.92 | 0.13 | ug/L | U of Idaho |
| Lead | 0.51 | 0.45 | 0.25 | ug/L | U of Idaho |
| Mercury | BDL | | 0.5 | ug/L | U of Idaho |
| Nickel | 9 | 10 | 0.13 | ug/L | U of Idaho |
| Selenium | 3.2 | 2.4 | 1 | ug/L | U of Idaho |
| Silver | BDL | 0.45 | 0.25 | ug/L | U of Idaho |
| Zinc | 94 | 12 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 54 | 23 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 38 | 45 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 250 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 74 | 70 | 25 | ug/L | U of Idaho |
| Calcium | 89000 | 100000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 3800 | | 100 | ug/L | U of Idaho |
| Fluoride | 200 | | 100 | ug/L | U of Idaho |
| Gross Alpha Radiation | 2.2 +/- 3 | | 2.9 | pCi/L | ACZ Laboratories |
| Gross Beta Radiation | 2.4 +/- 3.1 | | 4.2 | pCi/L | ACZ Laboratories |
| Hardness | | 353 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 480 | 77 | 10 | ug/L | U of Idaho |
| Magnesium | 23000 | 25000 | 5 | ug/L | U of Idaho |
| Manganese | 200 | 200 | 2 | ug/L | U of Idaho |
| Molybdenum | 4 | 3.1 | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Potassium | 1200 | 1400 | 500 | ug/L | U of Idaho |
| Sodium | 8600 | 10000 | 2000 | ug/L | U of Idaho |
| Sulfate | 92000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 250 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 450 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 9 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 120 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | 4 | | 4 | mg/L | U of Idaho |
| Uranium | 2.2 | 2.2 | 0.1 | ug/L | U of Idaho |
| Vanadium | 1.7 | 2.4 | 0.25 | ug/L | U of Idaho |

Station: GHCTT006

Matrix: surface water

Sample Date: 6/15/2001

Event: 2

Sample Type: FO

SAMPLE ID SW-GHCTT006-102

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Nickel | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | BDL | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 510 | 18 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 63 | 46 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 190 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 49 | 67 | 25 | ug/L | U of Idaho |
| Calcium | 48000 | 58000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 2100 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Hardness | | 184 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 520 | BDL | 10 | ug/L | U of Idaho |
| Magnesium | 12000 | 9500 | 5 | ug/L | U of Idaho |
| Manganese | 62 | 36 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | 320 | | 100 | ug/L | U of Idaho |
| Potassium | 1200 | 950 | 500 | ug/L | U of Idaho |
| Sodium | 6300 | 6300 | 2000 | ug/L | U of Idaho |
| Sulfate | 9200 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 190 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 250 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 4 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 120 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | 27 | | 4 | mg/L | U of Idaho |
| Uranium | 0.68 | 0.5 | 0.1 | ug/L | U of Idaho |
| Vanadium | 1.5 | 0.41 | 0.25 | ug/L | U of Idaho |

Station: GTCTT032

Matrix: surface water

Sample Date: 5/18/2001

Event: 1

Sample Type: FO

SAMPLE ID SW-GTCTT032-101

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|-------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | 1 | 0.5 | ug/L | U of Idaho |
| Copper | BDL | 1.1 | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | BDL | | 0.5 | ug/L | U of Idaho |
| Nickel | BDL | 2 | 0.13 | ug/L | U of Idaho |
| Selenium | 1.9 | 2 | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 10 | 89 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 47 | 24 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 37 | 29 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 190 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 110 | 100 | 25 | ug/L | U of Idaho |
| Calcium | 62000 | 53000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 1300 | | 100 | ug/L | U of Idaho |
| Fluoride | 160 | | 100 | ug/L | U of Idaho |
| Gross Alpha Radiation | 0 +/- 2.3 | | 2.4 | pCi/L | ACZ Laboratories |
| Gross Beta Radiation | 2.2 +/- 2.7 | | 4.1 | pCi/L | ACZ Laboratories |
| Hardness | | 194 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 28 | BDL | 10 | ug/L | U of Idaho |
| Magnesium | 17000 | 15000 | 5 | ug/L | U of Idaho |
| Manganese | 4.5 | BDL | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | 190 | | 100 | ug/L | U of Idaho |
| Potassium | 600 | 530 | 500 | ug/L | U of Idaho |
| Sodium | 2500 | 2800 | 2000 | ug/L | U of Idaho |
| Sulfate | 29000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 190 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 230 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 1 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 21 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 1.1 | 1.1 | 0.1 | ug/L | U of Idaho |
| Vanadium | 1 | 1 | 0.25 | ug/L | U of Idaho |

Station: GTCTT032

Matrix: surface water

Sample Date: 6/12/2001

Event: 2

Sample Type: FO

SAMPLE ID SW-GTCTT032-102

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------------|
| Arsenic | 1.5 | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | 0.54 | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Lead | BDL | 0.33 | 0.25 | ug/L | U of Idaho |
| Nickel | 0.8 | 0.67 | 0.13 | ug/L | U of Idaho |
| Selenium | 1.5 | 2.2 | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 11 | 14 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 24 | 23 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 30 | 34 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 170 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 77 | 130 | 25 | ug/L | U of Idaho |
| Calcium | 56000 | 53000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | 18 | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 1200 | | 100 | ug/L | U of Idaho |
| Fluoride | 140 | | 100 | ug/L | U of Idaho |
| Hardness | | 194 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 18 | BDL | 10 | ug/L | U of Idaho |
| Magnesium | 15000 | 15000 | 5 | ug/L | U of Idaho |
| Manganese | 4 | 6 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | 180 | | 100 | ug/L | U of Idaho |
| Potassium | 540 | 640 | 500 | ug/L | U of Idaho |
| Sodium | 2200 | BDL | 2000 | ug/L | U of Idaho |
| Sulfate | 29000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 190 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 190 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 3 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 28 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 1.7 | 1 | 0.1 | ug/L | U of Idaho |
| Vanadium | 1.3 | 0.83 | 0.25 | ug/L | U of Idaho |

Station: GTCTT032

Matrix: surface water

Sample Date: 9/18/2001

Event: 3

Sample Type: FO

SAMPLE ID SW-GTCTT032-103

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|--------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | 0.95 | 0.5 | ug/L | U of Idaho |
| Copper | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | 0.0003 | | 0.0002 | ug/L | ACZ Laboratories |
| Nickel | 1.5 | 0.5 | 0.13 | ug/L | U of Idaho |
| Selenium | 2 | 1.7 | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 13 | 10 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 32 | 21 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 31 | 35 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 180 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 82 | 87 | 25 | ug/L | U of Idaho |
| Calcium | 56000 | 59000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 1200 | | 100 | ug/L | U of Idaho |
| Fluoride | 180 | | 100 | ug/L | U of Idaho |
| Hardness | | 217 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Magnesium | 16000 | 17000 | 5 | ug/L | U of Idaho |
| Manganese | 2.4 | BDL | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | 140 | | 100 | ug/L | U of Idaho |
| Sulfate | 29000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 180 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 230 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | BDL | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 19 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 0.97 | 1.1 | 0.1 | ug/L | U of Idaho |
| Vanadium | 0.37 | BDL | 0.25 | ug/L | U of Idaho |

Station: KCTT042

Matrix: surface water

Sample Date: 7/25/2001

Event: 4

Sample Type: FO

| SAMPLE ID | | KCTT042 | | | | |
|------------------------|------------|------------|--------|-------|------------------|--|
| | UNF Result | FIL Result | MDL | Units | Lab | |
| Arsenic | BDL | BDL | 0.5 | ug/L | ACZ Laboratories | |
| Cadmium | BDL | BDL | 0.1 | ug/L | ACZ Laboratories | |
| Chromium | BDL | BDL | 0.1 | ug/L | ACZ Laboratories | |
| Copper | BDL | BDL | 0.5 | ug/L | ACZ Laboratories | |
| Lead | BDL | BDL | 0.1 | ug/L | ACZ Laboratories | |
| Mercury | 0.0008 | 0.0008 | 0.0002 | ug/L | ACZ Laboratories | |
| Nickel | 0.9 | 0.9 | 0.2 | ug/L | ACZ Laboratories | |
| Selenium | BDL | BDL | 1 | ug/L | ACZ Laboratories | |
| Silver | BDL | BDL | 0.05 | ug/L | ACZ Laboratories | |
| Zinc | 20 | 20 | 10 | ug/L | ACZ Laboratories | |
| | UNF Result | FIL Result | MDL | Units | Lab | |
| Aluminum | 34.1 | 34.1 | 0.5 | ug/L | ACZ Laboratories | |
| Antimony | BDL | BDL | 0.2 | ug/L | ACZ Laboratories | |
| Barium | 29 | 29 | 3 | ug/L | ACZ Laboratories | |
| Beryllium | BDL | BDL | 0.1 | ug/L | ACZ Laboratories | |
| Bicarbonate Alkalinity | 167 | 167 | 2 | mg/L | ACZ Laboratories | |
| Boron | 20 | 20 | 10 | ug/L | ACZ Laboratories | |
| Calcium | 51600 | 51600 | 200 | ug/L | ACZ Laboratories | |
| Carbonate Alkalinity | BDL | BDL | 2 | mg/L | ACZ Laboratories | |
| Hydroxide Alkalinity | BDL | BDL | 2 | mg/L | ACZ Laboratories | |
| Magnesium | 7800 | 7800 | 200 | ug/L | ACZ Laboratories | |
| Manganese | BDL | BDL | 5 | ug/L | ACZ Laboratories | |
| Molybdenum | 0.1 | 0.1 | 0.1 | ug/L | ACZ Laboratories | |
| Thallium | BDL | BDL | 0.05 | ug/L | ACZ Laboratories | |
| Total Alkalinity | 167000 | 167000 | 2000 | ug/L | ACZ Laboratories | |
| Total Organic Carbon | BDL | BDL | 1 | mg/L | ACZ Laboratories | |
| Uranium | 0.32 | 0.32 | 0.05 | ug/L | ACZ Laboratories | |
| Vanadium | BDL | BDL | 0.05 | ug/L | ACZ Laboratories | |

Station: LBFTT001

Matrix: surface water

Sample Date: 5/17/2001

Event: 1

Sample Type: FO

SAMPLE ID SW-LBFTT001-101

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|-------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | 0.92 | 0.25 | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | BDL | | 0.5 | ug/L | U of Idaho |
| Nickel | 1.5 | 2.2 | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 120 | 15 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 51 | 39 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 50 | 56 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 400 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 65 | 140 | 25 | ug/L | U of Idaho |
| Calcium | 110000 | 120000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 25000 | | 100 | ug/L | U of Idaho |
| Fluoride | 480 | | 100 | ug/L | U of Idaho |
| Gross Alpha Radiation | 1.4 +/- 3.2 | | 3.5 | pCi/L | ACZ Laboratories |
| Gross Beta Radiation | 0 +/- 3.4 | | 5 | pCi/L | ACZ Laboratories |
| Hardness | | 436 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 52 | BDL | 10 | ug/L | U of Idaho |
| Magnesium | 32000 | 33000 | 5 | ug/L | U of Idaho |
| Manganese | BDL | 5.7 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Potassium | 2200 | 2300 | 500 | ug/L | U of Idaho |
| Sodium | 20000 | 20000 | 2000 | ug/L | U of Idaho |
| Sulfate | 53000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 400 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 520 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 1 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 14 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 1.9 | 1.7 | 0.1 | ug/L | U of Idaho |
| Vanadium | 1.3 | 1.4 | 0.25 | ug/L | U of Idaho |

Station: LBFTT001

Matrix: surface water

Sample Date: 5/17/2001

Event: 1

Sample Type: FD

SAMPLE ID SW-LBFTT001-201

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|--------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | 0.66 | 0.21 | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | BDL | | 0.5 | ug/L | U of Idaho |
| Nickel | 1.7 | 0.74 | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 71 | 14 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 40 | 27 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 50 | 55 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 400 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 71 | 71 | 25 | ug/L | U of Idaho |
| Calcium | 98000 | 120000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 20000 | | 100 | ug/L | U of Idaho |
| Fluoride | 490 | | 100 | ug/L | U of Idaho |
| Gross Alpha Radiation | 0.11 +/- 2.9 | | 3.5 | pCi/L | ACZ Laboratories |
| Gross Beta Radiation | 6.6 +/- 3.6 | | 4.9 | pCi/L | ACZ Laboratories |
| Hardness | | 444 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 58 | BDL | 10 | ug/L | U of Idaho |
| Magnesium | 28000 | 35000 | 5 | ug/L | U of Idaho |
| Manganese | BDL | 6.6 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Potassium | 2200 | 2300 | 500 | ug/L | U of Idaho |
| Sodium | 21000 | 21000 | 2000 | ug/L | U of Idaho |
| Sulfate | 45000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 400 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 520 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 2 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 16 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 1.8 | 1.7 | 0.1 | ug/L | U of Idaho |
| Vanadium | 0.86 | 1.4 | 0.25 | ug/L | U of Idaho |

Station: LBFTT001

Matrix: surface water

Sample Date: 6/14/2001

Event: 2

Sample Type: FO

SAMPLE ID SW-LBFTT001-102

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | 0.22 | 0.13 | ug/L | U of Idaho |
| Lead | BDL | 0.29 | 0.25 | ug/L | U of Idaho |
| Nickel | BDL | 2.1 | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | 1.4 | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | 21 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 120 | 16 | 1 | ug/L | U of Idaho |
| Antimony | BDL | 2.7 | 2.5 | ug/L | U of Idaho |
| Barium | 49 | 59 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 410 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 67 | 250 | 25 | ug/L | U of Idaho |
| Calcium | 120000 | 120000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 23000 | | 100 | ug/L | U of Idaho |
| Fluoride | 610 | | 100 | ug/L | U of Idaho |
| Hardness | | 440 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 360 | 53 | 10 | ug/L | U of Idaho |
| Magnesium | 33000 | 34000 | 5 | ug/L | U of Idaho |
| Manganese | 4.4 | 6.9 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | 260 | | 100 | ug/L | U of Idaho |
| Potassium | 2200 | 2300 | 500 | ug/L | U of Idaho |
| Sodium | 20000 | 23000 | 2000 | ug/L | U of Idaho |
| Sulfate | 58000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 410 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 520 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 2 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 32 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | 5 | | 4 | mg/L | U of Idaho |
| Uranium | 1.8 | 2.7 | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | 1.1 | 0.25 | ug/L | U of Idaho |

Station: LBFTT001

Matrix: surface water

Sample Date: 6/14/2001

Event: 2

Sample Type: FD

SAMPLE ID SW-LBFTT001-202

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | 0.57 | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Nickel | BDL | 2 | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | 1 | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 11 | 22 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 110 | 17 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 45 | 60 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 410 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 56 | 240 | 25 | ug/L | U of Idaho |
| Calcium | 120000 | 120000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 23000 | | 100 | ug/L | U of Idaho |
| Fluoride | 610 | | 100 | ug/L | U of Idaho |
| Hardness | | 440 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 79 | BDL | 10 | ug/L | U of Idaho |
| Magnesium | 34000 | 34000 | 5 | ug/L | U of Idaho |
| Manganese | 4.5 | 6.3 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | 2.8 | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Potassium | 2300 | 2400 | 500 | ug/L | U of Idaho |
| Sodium | 20000 | 18000 | 2000 | ug/L | U of Idaho |
| Sulfate | 59000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 410 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 530 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | BDL | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 23 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | 7 | | 4 | mg/L | U of Idaho |
| Uranium | 1.8 | 1.8 | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | 0.91 | 0.25 | ug/L | U of Idaho |

Station: LBFTT001

Matrix: surface water

Sample Date: 9/20/2001

Event: 3

Sample Type: FO

SAMPLE ID SW-LBFTT001-103

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|--------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | 1.4 | 0.5 | ug/L | U of Idaho |
| Copper | 0.6 | 0.33 | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | 0.0029 | | 0.0002 | ug/L | ACZ Laboratories |
| Nickel | 4.4 | 3.4 | 0.13 | ug/L | U of Idaho |
| Selenium | 2.1 | 1.6 | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 20 | 18 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 38 | 26 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 59 | 62 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 430 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 85 | 130 | 25 | ug/L | U of Idaho |
| Calcium | 130000 | 130000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 19000 | | 100 | ug/L | U of Idaho |
| Fluoride | 610 | | 100 | ug/L | U of Idaho |
| Hardness | | 469 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Magnesium | 36000 | 25000 | 5 | ug/L | U of Idaho |
| Manganese | 3 | BDL | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | 140 | | 100 | ug/L | U of Idaho |
| Sulfate | 47000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 430 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 520 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 2 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 22 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | 8 | | 4 | mg/L | U of Idaho |
| Uranium | 1.6 | 1.8 | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | BDL | 0.25 | ug/L | U of Idaho |

Station: LSCTT040

Matrix: surface water

Sample Date: 7/24/2001

Event: 4

Sample Type: FO

| SAMPLE ID LSCTT040 | | | | | |
|------------------------|------------|------------|--------|-------|------------------|
| | UNF Result | FIL Result | MDL | Units | Lab |
| Arsenic | BDL | BDL | 0.5 | ug/L | ACZ Laboratories |
| Cadmium | BDL | BDL | 0.1 | ug/L | ACZ Laboratories |
| Chromium | 0.2 | 0.2 | 0.1 | ug/L | ACZ Laboratories |
| Copper | BDL | BDL | 0.5 | ug/L | ACZ Laboratories |
| Lead | BDL | BDL | 0.1 | ug/L | ACZ Laboratories |
| Mercury | 0.0007 | 0.0007 | 0.0002 | ug/L | ACZ Laboratories |
| Nickel | 1.2 | 1.2 | 0.2 | ug/L | ACZ Laboratories |
| Selenium | 4 | 4 | 1 | ug/L | ACZ Laboratories |
| Silver | BDL | BDL | 0.05 | ug/L | ACZ Laboratories |
| Zinc | 10 | 10 | 10 | ug/L | ACZ Laboratories |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 10 | 10 | 0.5 | ug/L | ACZ Laboratories |
| Antimony | BDL | BDL | 0.2 | ug/L | ACZ Laboratories |
| Barium | 41 | 41 | 3 | ug/L | ACZ Laboratories |
| Beryllium | BDL | BDL | 0.1 | ug/L | ACZ Laboratories |
| Bicarbonate Alkalinity | 185 | 185 | 2 | mg/L | ACZ Laboratories |
| Boron | 20 | 20 | 10 | ug/L | ACZ Laboratories |
| Calcium | 53300 | 53300 | 200 | ug/L | ACZ Laboratories |
| Carbonate Alkalinity | 7 | 7 | 2 | mg/L | ACZ Laboratories |
| Hydroxide Alkalinity | BDL | BDL | 2 | mg/L | ACZ Laboratories |
| Magnesium | 19400 | 19400 | 200 | ug/L | ACZ Laboratories |
| Manganese | BDL | BDL | 5 | ug/L | ACZ Laboratories |
| Molybdenum | 1.5 | 1.5 | 0.1 | ug/L | ACZ Laboratories |
| Thallium | BDL | BDL | 0.05 | ug/L | ACZ Laboratories |
| Total Alkalinity | 192000 | 192000 | 2000 | ug/L | ACZ Laboratories |
| Total Organic Carbon | 2 | 2 | 1 | mg/L | ACZ Laboratories |
| Uranium | 1.41 | 1.41 | 0.05 | ug/L | ACZ Laboratories |
| Vanadium | 1.23 | 1.23 | 0.05 | ug/L | ACZ Laboratories |

Station: MACTT011

Matrix: surface water

Sample Date: 5/16/2001

Event: 1

Sample Type: SPL

SAMPLE ID E0100357-3

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------|------------|------------|------|-------|------------------|
| Arsenic | 0.7 | BDL | 0.5 | ug/L | ACZ Laboratories |
| Cadmium | 0.2 | BDL | 0.1 | ug/L | ACZ Laboratories |
| Chromium | 1.8 | 1 | 0.1 | ug/L | ACZ Laboratories |
| Copper | BDL | 1 | 1 | ug/L | ACZ Laboratories |
| Lead | 1 | BDL | 0.1 | ug/L | ACZ Laboratories |
| Nickel | 2.8 | 1.6 | 0.2 | ug/L | ACZ Laboratories |
| Selenium | 1 | BDL | 1 | ug/L | ACZ Laboratories |
| Silver | BDL | BDL | 0.05 | ug/L | ACZ Laboratories |
| Zinc | 10 | BDL | 10 | ug/L | ACZ Laboratories |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 1020 | 26 | 10 | ug/L | ACZ Laboratories |
| Antimony | BDL | BDL | 0.2 | ug/L | ACZ Laboratories |
| Barium | 44 | 30 | 3 | ug/L | ACZ Laboratories |
| Beryllium | BDL | BDL | 0.1 | ug/L | ACZ Laboratories |
| Boron | 20 | 20 | 10 | ug/L | ACZ Laboratories |
| Calcium | 73400 | 72000 | 200 | ug/L | ACZ Laboratories |
| Iron | 1650 | 20 | 10 | ug/L | ACZ Laboratories |
| Magnesium | 16000 | 15400 | 200 | ug/L | ACZ Laboratories |
| Manganese | 226 | 40 | 5 | ug/L | ACZ Laboratories |
| Molybdenum | 0.3 | 0.3 | 0.1 | ug/L | ACZ Laboratories |
| Potassium | 1300 | 1000 | 300 | ug/L | ACZ Laboratories |
| Sodium | 5700 | 5700 | 300 | ug/L | ACZ Laboratories |
| Thallium | BDL | BDL | 0.05 | ug/L | ACZ Laboratories |
| Uranium | 0.74 | 0.7 | 0.05 | ug/L | ACZ Laboratories |
| Vanadium | BDL | 0.4 | 0.1 | ug/L | ACZ Laboratories |

Station: MACTT011

Matrix: surface water

Sample Date: 5/16/2001

Event: 1

Sample Type: SPL

SAMPLE ID E0100357-4

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------|------------|------------|--------|-------|------------------|
| Arsenic | | BDL | 1 | ug/L | ACZ Laboratories |
| Cadmium | | BDL | 0.2 | ug/L | ACZ Laboratories |
| Chromium | | 1 | 0.2 | ug/L | ACZ Laboratories |
| Copper | | 1 | 1 | ug/L | ACZ Laboratories |
| Lead | | BDL | 0.2 | ug/L | ACZ Laboratories |
| Mercury | 0.0045 | | 0.0002 | ug/L | ACZ Laboratories |
| Nickel | | 1.6 | 0.4 | ug/L | ACZ Laboratories |
| Selenium | | BDL | 1 | ug/L | ACZ Laboratories |
| Silver | | BDL | 0.1 | ug/L | ACZ Laboratories |
| Zinc | | BDL | 10 | ug/L | ACZ Laboratories |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | | 26 | 1 | ug/L | ACZ Laboratories |
| Antimony | | BDL | 0.4 | ug/L | ACZ Laboratories |
| Barium | | 30 | 3 | ug/L | ACZ Laboratories |
| Beryllium | | BDL | 0.2 | ug/L | ACZ Laboratories |
| Boron | | 20 | 10 | ug/L | ACZ Laboratories |
| Calcium | | 72000 | 200 | ug/L | ACZ Laboratories |
| Iron | | 20 | 10 | ug/L | ACZ Laboratories |
| Magnesium | | 15400 | 200 | ug/L | ACZ Laboratories |
| Manganese | | 40 | 5 | ug/L | ACZ Laboratories |
| Molybdenum | | 0.3 | 0.2 | ug/L | ACZ Laboratories |
| Potassium | | 1000 | 300 | ug/L | ACZ Laboratories |
| Sodium | | 5700 | 300 | ug/L | ACZ Laboratories |
| Thallium | | BDL | 0.1 | ug/L | ACZ Laboratories |
| Uranium | | 0.7 | 0.1 | ug/L | ACZ Laboratories |
| Vanadium | | 0.4 | 0.1 | ug/L | ACZ Laboratories |

Station: MACTT011

Matrix: surface water

Sample Date: 5/16/2001

Event: 1

Sample Type: FO

SAMPLE ID SW-MACTT011-101

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|-------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | 0.17 | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | 1.7 | 0.71 | 0.13 | ug/L | U of Idaho |
| Lead | 1.2 | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | BDL | | 0.5 | ug/L | U of Idaho |
| Nickel | 1.4 | 0.78 | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 10 | BDL | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 1600 | 39 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 38 | 27 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 160 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 180 | 120 | 25 | ug/L | U of Idaho |
| Calcium | 55000 | 54000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | 4 | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 5900 | | 100 | ug/L | U of Idaho |
| Fluoride | 130 | | 100 | ug/L | U of Idaho |
| Gross Alpha Radiation | 4.4 +/- 3.1 | | 2.7 | pCi/L | ACZ Laboratories |
| Gross Beta Radiation | 3.1 +/- 2.9 | | 4.2 | pCi/L | ACZ Laboratories |
| Hardness | | 201 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 1200 | BDL | 10 | ug/L | U of Idaho |
| Magnesium | 12000 | 16000 | 5 | ug/L | U of Idaho |
| Manganese | 220 | 35 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Potassium | 1100 | 1100 | 500 | ug/L | U of Idaho |
| Sodium | 6400 | 5500 | 2000 | ug/L | U of Idaho |
| Sulfate | 73000 | | 200 | ug/L | U of Idaho |
| Thallium | 3.1 | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 170 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 290 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 3 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 140 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | 53 | | 4 | mg/L | U of Idaho |
| Uranium | 0.79 | 0.89 | 0.1 | ug/L | U of Idaho |
| Vanadium | 2 | 0.66 | 0.25 | ug/L | U of Idaho |

Station: MACTT011

Matrix: surface water

Sample Date: 6/13/2001

Event: 2

Sample Type: FO

SAMPLE ID SW-MACTT011-102

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Lead | 0.35 | BDL | 0.25 | ug/L | U of Idaho |
| Nickel | 2 | 0.74 | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 12 | 17 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 200 | 15 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 23 | 24 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 170 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 48 | 250 | 25 | ug/L | U of Idaho |
| Calcium | 70000 | 60000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | 9 | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 4700 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Hardness | | 212 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 260 | BDL | 10 | ug/L | U of Idaho |
| Magnesium | 14000 | 15000 | 5 | ug/L | U of Idaho |
| Manganese | 71 | 52 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | 540 | | 100 | ug/L | U of Idaho |
| Potassium | 510 | 620 | 500 | ug/L | U of Idaho |
| Sodium | 5200 | 5900 | 2000 | ug/L | U of Idaho |
| Sulfate | 57000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 180 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 210 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 3 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 59 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | 7 | | 4 | mg/L | U of Idaho |
| Uranium | 0.93 | 0.57 | 0.1 | ug/L | U of Idaho |
| Vanadium | 1.1 | 0.38 | 0.25 | ug/L | U of Idaho |

Station: MACTT011

Matrix: surface water

Sample Date: 6/13/2001

Event: 2

Sample Type: FD

SAMPLE ID SW-MACTT011-202

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | 0.51 | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Lead | 0.28 | BDL | 0.25 | ug/L | U of Idaho |
| Nickel | BDL | 0.75 | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 14 | 14 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 240 | 13 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 24 | 24 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 170 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 100 | 190 | 25 | ug/L | U of Idaho |
| Calcium | 64000 | 61000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | 9 | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 4600 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Hardness | | 214 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 270 | 12 | 10 | ug/L | U of Idaho |
| Magnesium | 14000 | 15000 | 5 | ug/L | U of Idaho |
| Manganese | 72 | 53 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | 1300 | | 100 | ug/L | U of Idaho |
| Potassium | 550 | 580 | 500 | ug/L | U of Idaho |
| Sodium | 5100 | 5600 | 2000 | ug/L | U of Idaho |
| Sulfate | 55000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 180 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 220 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 5 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 59 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | 6 | | 4 | mg/L | U of Idaho |
| Uranium | 0.94 | 0.58 | 0.1 | ug/L | U of Idaho |
| Vanadium | 0.73 | BDL | 0.25 | ug/L | U of Idaho |

Station: MACTT011**Matrix:** surface water**Sample Date:** 9/21/2001**Event:** 3**Sample Type:** FO**SAMPLE ID** SW-MACTT011-103

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|-------------------|-------------------|------------|--------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | 0.39 | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | 0.0008 | | 0.0002 | ug/L | ACZ Laboratories |
| Nickel | 1.5 | 0.86 | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 10 | 12 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 67 | 17 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 23 | 27 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 190 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 69 | 58 | 25 | ug/L | U of Idaho |
| Calcium | 68000 | 68000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 5100 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Hardness | | 227 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Magnesium | 14000 | 14000 | 5 | ug/L | U of Idaho |
| Manganese | 59 | 39 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | 110 | | 100 | ug/L | U of Idaho |
| Sulfate | 37000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 190 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 310 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 2 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 36 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 0.43 | 0.48 | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | BDL | 0.25 | ug/L | U of Idaho |

Station: MCATT030**Matrix:** surface water**Sample Date:** 5/16/2001**Event:** 1**Sample Type:** SPL**SAMPLE ID** E0100362-4

| | UNF Result | FIL Result | MDL | Units | Lab |
|---------|-------------------|-------------------|------------|--------------|------------------|
| Mercury | 0.0018 | | 0.0002 | ug/L | ACZ Laboratories |

Station: MCATT030

Matrix: surface water

Sample Date: 5/16/2001

Event: 1

Sample Type: FO

SAMPLE ID SW-MCATT030-101

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|--------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | 0.21 | 0.5 | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | BDL | | 0.5 | ug/L | U of Idaho |
| Nickel | 2.2 | 0.33 | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | 66 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 76 | 9.8 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 56 | 46 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 160 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 99 | 120 | 25 | ug/L | U of Idaho |
| Calcium | 58000 | 53000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | 9 | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 6300 | | 100 | ug/L | U of Idaho |
| Fluoride | 120 | | 100 | ug/L | U of Idaho |
| Gross Alpha Radiation | 2.1 +/- 2.6 | | 2.6 | pCi/L | ACZ Laboratories |
| Gross Beta Radiation | 0.18 +/- 2.9 | | 4.2 | pCi/L | ACZ Laboratories |
| Hardness | | 206 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 96 | 17 | 10 | ug/L | U of Idaho |
| Magnesium | 19000 | 18000 | 5 | ug/L | U of Idaho |
| Manganese | 13 | 2.7 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Potassium | 1100 | 1000 | 500 | ug/L | U of Idaho |
| Sodium | 8200 | 7600 | 2000 | ug/L | U of Idaho |
| Sulfate | 56000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 170 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 290 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | BDL | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | BDL | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | 4 | | 4 | mg/L | U of Idaho |
| Uranium | 0.56 | 0.61 | 0.1 | ug/L | U of Idaho |
| Vanadium | 2.4 | 1.2 | 0.25 | ug/L | U of Idaho |

Station: MCATT030

Matrix: surface water

Sample Date: 6/13/2001

Event: 2

Sample Type: FO

SAMPLE ID SW-MCATT030-102

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Lead | 0.35 | BDL | 0.25 | ug/L | U of Idaho |
| Nickel | 1.9 | 1.3 | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | 12 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 270 | 11 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 51 | 50 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 170 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 120 | 160 | 25 | ug/L | U of Idaho |
| Calcium | 64000 | 58000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | 18 | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 2700 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Hardness | | 211 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 250 | BDL | 10 | ug/L | U of Idaho |
| Magnesium | 16000 | 16000 | 5 | ug/L | U of Idaho |
| Manganese | 15 | 6.8 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | 230 | | 100 | ug/L | U of Idaho |
| Potassium | 950 | 1000 | 500 | ug/L | U of Idaho |
| Sodium | 6400 | 6800 | 2000 | ug/L | U of Idaho |
| Sulfate | 52000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 190 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 270 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 3 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 30 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | 18 | | 4 | mg/L | U of Idaho |
| Uranium | 0.67 | 0.4 | 0.1 | ug/L | U of Idaho |
| Vanadium | 1 | 0.56 | 0.25 | ug/L | U of Idaho |

Station: MCATT030

Matrix: surface water

Sample Date: 9/18/2001

Event: 3

Sample Type: FO

SAMPLE ID SW-MCATT030-103

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|--------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | 0.0004 | | 0.0002 | ug/L | ACZ Laboratories |
| Nickel | 0.9 | BDL | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 11 | 12 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 9.3 | 12 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 51 | 57 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 190 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 75 | 86 | 25 | ug/L | U of Idaho |
| Calcium | 64000 | 62000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 5200 | | 100 | ug/L | U of Idaho |
| Fluoride | 120 | | 100 | ug/L | U of Idaho |
| Hardness | | 237 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Magnesium | 20000 | 20000 | 5 | ug/L | U of Idaho |
| Manganese | 9.7 | 6.9 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Sulfate | 62000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 190 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 280 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 2 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 10 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 0.6 | 0.67 | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | BDL | 0.25 | ug/L | U of Idaho |

Station: MCBTT031

Matrix: surface water

Sample Date: 5/16/2001

Event: 1

Sample Type: FO

SAMPLE ID SW-MCBTT031-101

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|-------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | 0.32 | 0.85 | 0.13 | ug/L | U of Idaho |
| Lead | 1.1 | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | BDL | | 0.5 | ug/L | U of Idaho |
| Nickel | BDL | 0.58 | 0.13 | ug/L | U of Idaho |
| Selenium | 1.3 | 1.3 | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 11 | 67 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 62 | 15 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 53 | 46 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 180 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 89 | 180 | 25 | ug/L | U of Idaho |
| Calcium | 79000 | 70000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | 9 | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 7200 | | 100 | ug/L | U of Idaho |
| Fluoride | 200 | | 100 | ug/L | U of Idaho |
| Gross Alpha Radiation | 4.1 +/- 3.3 | | 2.8 | pCi/L | ACZ Laboratories |
| Gross Beta Radiation | 2.4 +/- 2.9 | | 4.2 | pCi/L | ACZ Laboratories |
| Hardness | | 265 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 82 | 48 | 10 | ug/L | U of Idaho |
| Magnesium | 24000 | 22000 | 5 | ug/L | U of Idaho |
| Manganese | 14 | 4.6 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Potassium | 1100 | 1000 | 500 | ug/L | U of Idaho |
| Sodium | 8800 | 8300 | 2000 | ug/L | U of Idaho |
| Sulfate | 92000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 190 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 380 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 3 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 16 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 0.7 | 0.71 | 0.1 | ug/L | U of Idaho |
| Vanadium | 1.5 | 0.88 | 0.25 | ug/L | U of Idaho |

Station: MCBTT031

Matrix: surface water

Sample Date: 6/12/2001

Event: 2

Sample Type: FO

SAMPLE ID SW-MCBTT031-102

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | 0.54 | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Lead | 1.1 | 0.38 | 0.25 | ug/L | U of Idaho |
| Nickel | 0.38 | BDL | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | 4.6 | 0.25 | ug/L | U of Idaho |
| Zinc | 11 | 14 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 390 | 17 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 52 | 47 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 180 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 80 | 110 | 25 | ug/L | U of Idaho |
| Calcium | 68000 | 66000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | 13 | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 3100 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Hardness | | 235 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 440 | 18 | 10 | ug/L | U of Idaho |
| Magnesium | 18000 | 17000 | 5 | ug/L | U of Idaho |
| Manganese | 21 | 7.4 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Potassium | 1100 | 1000 | 500 | ug/L | U of Idaho |
| Sodium | 6800 | 7000 | 2000 | ug/L | U of Idaho |
| Sulfate | 67000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 200 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 300 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 5 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 72 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | 20 | | 4 | mg/L | U of Idaho |
| Uranium | 0.78 | 0.75 | 0.1 | ug/L | U of Idaho |
| Vanadium | 1.7 | 0.75 | 0.25 | ug/L | U of Idaho |

Station: MCBTT031

Matrix: surface water

Sample Date: 9/18/2001

Event: 3

Sample Type: FO

SAMPLE ID SW-MCBTT031-103

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|--------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | 0.0005 | | 0.0002 | ug/L | ACZ Laboratories |
| Nickel | 1.2 | 0.69 | 0.13 | ug/L | U of Idaho |
| Selenium | 3.3 | 3.5 | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 18 | 15 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 24 | 11 | 1 | ug/L | U of Idaho |
| Antimony | BDL | 2.6 | 2.5 | ug/L | U of Idaho |
| Barium | 48 | 49 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 190 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 97 | 87 | 25 | ug/L | U of Idaho |
| Calcium | 91000 | 92000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 6100 | | 100 | ug/L | U of Idaho |
| Fluoride | 170 | | 100 | ug/L | U of Idaho |
| Hardness | | 345 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Magnesium | 27000 | 28000 | 5 | ug/L | U of Idaho |
| Manganese | 17 | 13 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Sulfate | 150000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | 4.7 | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 190 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 390 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 2 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 15 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 0.73 | 1.8 | 0.1 | ug/L | U of Idaho |
| Vanadium | 0.44 | BDL | 0.25 | ug/L | U of Idaho |

Station: MCTT044

Matrix: surface water

Sample Date: 7/25/2001

Event: 4

Sample Type: FO

| SAMPLE ID | | MCTT044 | | | | |
|------------------------|------------|------------|--------|-------|------------------|--|
| | UNF Result | FIL Result | MDL | Units | Lab | |
| Arsenic | 5 | 5 | 1 | ug/L | ACZ Laboratories | |
| Cadmium | 1.8 | 1.8 | 0.2 | ug/L | ACZ Laboratories | |
| Chromium | 0.9 | 0.9 | 0.2 | ug/L | ACZ Laboratories | |
| Copper | 1 | 1 | 1 | ug/L | ACZ Laboratories | |
| Lead | BDL | BDL | 0.2 | ug/L | ACZ Laboratories | |
| Mercury | 0.0009 | 0.0009 | 0.0002 | ug/L | ACZ Laboratories | |
| Nickel | 28.5 | 28.5 | 0.4 | ug/L | ACZ Laboratories | |
| Selenium | 1140 | 1140 | 50 | ug/L | ACZ Laboratories | |
| Silver | BDL | BDL | 0.1 | ug/L | ACZ Laboratories | |
| Zinc | 90 | 90 | 10 | ug/L | ACZ Laboratories | |
| | UNF Result | FIL Result | MDL | Units | Lab | |
| Aluminum | 218 | 218 | 1 | ug/L | ACZ Laboratories | |
| Antimony | BDL | BDL | 0.4 | ug/L | ACZ Laboratories | |
| Barium | 33 | 33 | 3 | ug/L | ACZ Laboratories | |
| Beryllium | 5 | 5 | 0.2 | ug/L | ACZ Laboratories | |
| Bicarbonate Alkalinity | 171 | 171 | 2 | mg/L | ACZ Laboratories | |
| Boron | 30 | 30 | 10 | ug/L | ACZ Laboratories | |
| Calcium | 156000 | 156000 | 200 | ug/L | ACZ Laboratories | |
| Carbonate Alkalinity | BDL | BDL | 2 | mg/L | ACZ Laboratories | |
| Hydroxide Alkalinity | BDL | BDL | 2 | mg/L | ACZ Laboratories | |
| Magnesium | 38500 | 38500 | 200 | ug/L | ACZ Laboratories | |
| Manganese | 31 | 31 | 5 | ug/L | ACZ Laboratories | |
| Molybdenum | 10.1 | 10.1 | 0.2 | ug/L | ACZ Laboratories | |
| Thallium | 0.2 | 0.2 | 0.1 | ug/L | ACZ Laboratories | |
| Total Alkalinity | 171000 | 171000 | 2000 | ug/L | ACZ Laboratories | |
| Total Organic Carbon | 4 | 4 | 1 | mg/L | ACZ Laboratories | |
| Uranium | 5.4 | 5.4 | 0.1 | ug/L | ACZ Laboratories | |
| Vanadium | 6.2 | 6.2 | 0.1 | ug/L | ACZ Laboratories | |

Station: NNATT013**Matrix:** surface water**Sample Date:** 5/16/2001**Event:** 1**Sample Type:** SPL**SAMPLE ID** E0100359-3

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------|-------------------|-------------------|------------|--------------|------------------|
| Arsenic | 0.6 | 0.6 | 0.5 | ug/L | ACZ Laboratories |
| Cadmium | 0.2 | 0.1 | 0.1 | ug/L | ACZ Laboratories |
| Chromium | 2.5 | 1.5 | 0.1 | ug/L | ACZ Laboratories |
| Copper | BDL | BDL | 10 | ug/L | ACZ Laboratories |
| Lead | 0.5 | 0.2 | 0.1 | ug/L | ACZ Laboratories |
| Nickel | 2.5 | 1.9 | 0.2 | ug/L | ACZ Laboratories |
| Selenium | BDL | BDL | 1 | ug/L | ACZ Laboratories |
| Silver | BDL | BDL | 0.05 | ug/L | ACZ Laboratories |
| Zinc | 40 | 80 | 10 | ug/L | ACZ Laboratories |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 1150 | 638 | 10 | ug/L | ACZ Laboratories |
| Antimony | BDL | BDL | 0.2 | ug/L | ACZ Laboratories |
| Barium | BDL | 26 | 3 | ug/L | ACZ Laboratories |
| Beryllium | BDL | BDL | 0.1 | ug/L | ACZ Laboratories |
| Boron | BDL | 20 | 10 | ug/L | ACZ Laboratories |
| Calcium | BDL | 19800 | 200 | ug/L | ACZ Laboratories |
| Iron | BDL | 1040 | 10 | ug/L | ACZ Laboratories |
| Magnesium | BDL | 3400 | 200 | ug/L | ACZ Laboratories |
| Manganese | BDL | 31 | 5 | ug/L | ACZ Laboratories |
| Molybdenum | 0.1 | 0.1 | 0.1 | ug/L | ACZ Laboratories |
| Potassium | BDL | 800 | 300 | ug/L | ACZ Laboratories |
| Sodium | BDL | 2800 | 300 | ug/L | ACZ Laboratories |
| Thallium | BDL | BDL | 0.05 | ug/L | ACZ Laboratories |
| Uranium | 0.17 | 0.14 | 0.05 | ug/L | ACZ Laboratories |
| Vanadium | BDL | 0.7 | 1 | ug/L | ACZ Laboratories |

Station: NNATT013

Matrix: surface water

Sample Date: 5/16/2001

Event: 1

Sample Type: SPL

SAMPLE ID E0100359-4

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------|------------|------------|--------|-------|------------------|
| Arsenic | | 0.6 | 0.5 | ug/L | ACZ Laboratories |
| Cadmium | | 0.1 | 0.1 | ug/L | ACZ Laboratories |
| Chromium | | 1.5 | 0.1 | ug/L | ACZ Laboratories |
| Copper | | BDL | 5 | ug/L | ACZ Laboratories |
| Lead | | 0.2 | 0.1 | ug/L | ACZ Laboratories |
| Mercury | 0.0072 | | 0.0002 | ug/L | ACZ Laboratories |
| Nickel | | 1.9 | 0.2 | ug/L | ACZ Laboratories |
| Selenium | | BDL | 1 | ug/L | ACZ Laboratories |
| Silver | | BDL | 0.05 | ug/L | ACZ Laboratories |
| Zinc | | 80 | 50 | ug/L | ACZ Laboratories |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | | 638 | 5 | ug/L | ACZ Laboratories |
| Antimony | | BDL | 0.2 | ug/L | ACZ Laboratories |
| Barium | | 26 | 3 | ug/L | ACZ Laboratories |
| Beryllium | | BDL | 0.1 | ug/L | ACZ Laboratories |
| Boron | | 20 | 10 | ug/L | ACZ Laboratories |
| Calcium | | 19800 | 200 | ug/L | ACZ Laboratories |
| Iron | | 1040 | 10 | ug/L | ACZ Laboratories |
| Magnesium | | 3400 | 200 | ug/L | ACZ Laboratories |
| Manganese | | 31 | 5 | ug/L | ACZ Laboratories |
| Molybdenum | | 0.1 | 0.1 | ug/L | ACZ Laboratories |
| Potassium | | 800 | 300 | ug/L | ACZ Laboratories |
| Sodium | | 2800 | 300 | ug/L | ACZ Laboratories |
| Thallium | | BDL | 0.05 | ug/L | ACZ Laboratories |
| Uranium | | 0.14 | 0.05 | ug/L | ACZ Laboratories |
| Vanadium | | 0.7 | 0.5 | ug/L | ACZ Laboratories |

Station: NNATT013

Matrix: surface water

Sample Date: 5/16/2001

Event: 1

Sample Type: FO

SAMPLE ID SW-NNATT013-101

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|-------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | 0.31 | 0.64 | 0.13 | ug/L | U of Idaho |
| Chromium | 5.8 | 15 | 0.5 | ug/L | U of Idaho |
| Copper | 1.2 | 73 | 0.13 | ug/L | U of Idaho |
| Lead | 0.6 | 5.3 | 0.25 | ug/L | U of Idaho |
| Mercury | BDL | | 0.5 | ug/L | U of Idaho |
| Nickel | 1.4 | 5.6 | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 17 | 160 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 1800 | 950 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 28 | 27 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 63 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 49 | 120 | 25 | ug/L | U of Idaho |
| Calcium | 20000 | 18000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 1500 | | 100 | ug/L | U of Idaho |
| Fluoride | 120 | | 100 | ug/L | U of Idaho |
| Gross Alpha Radiation | 1.2 +/- 1.7 | | 1.2 | pCi/L | ACZ Laboratories |
| Gross Beta Radiation | 2 +/- 2.9 | | 4 | pCi/L | ACZ Laboratories |
| Hardness | | 58 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 1000 | 1600 | 10 | ug/L | U of Idaho |
| Magnesium | 3400 | 3100 | 5 | ug/L | U of Idaho |
| Manganese | 33 | 31 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Potassium | 1000 | 740 | 500 | ug/L | U of Idaho |
| Sodium | 3300 | 3300 | 2000 | ug/L | U of Idaho |
| Sulfate | 4500 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 63 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 140 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 5 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 160 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | 5 | | 4 | mg/L | U of Idaho |
| Uranium | 0.26 | 0.31 | 0.1 | ug/L | U of Idaho |
| Vanadium | 4 | 3.8 | 0.25 | ug/L | U of Idaho |

Station: NNATT013

Matrix: surface water

Sample Date: 6/13/2001

Event: 2

Sample Type: FO

SAMPLE ID SW-NNATT013-102

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | 1.3 | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | 1.8 | 0.13 | ug/L | U of Idaho |
| Lead | 0.4 | BDL | 0.25 | ug/L | U of Idaho |
| Nickel | 2.4 | 1.1 | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | 12 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 360 | 36 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 25 | 24 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 140 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 58 | 120 | 25 | ug/L | U of Idaho |
| Calcium | 41000 | 40000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | 4 | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 1400 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Hardness | | 127 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 480 | 22 | 10 | ug/L | U of Idaho |
| Magnesium | 6300 | 6600 | 5 | ug/L | U of Idaho |
| Manganese | 120 | 130 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Potassium | 650 | 570 | 500 | ug/L | U of Idaho |
| Sodium | 3700 | 3500 | 2000 | ug/L | U of Idaho |
| Sulfate | 4100 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 150 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 130 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 4 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 97 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | 9 | | 4 | mg/L | U of Idaho |
| Uranium | 0.57 | 0.36 | 0.1 | ug/L | U of Idaho |
| Vanadium | 0.87 | 0.48 | 0.25 | ug/L | U of Idaho |

Station: NNATT013

Matrix: surface water

Sample Date: 6/14/2001

Event: 2

Sample Type: 4D

SAMPLE ID SW-NNATT013-202

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | 0.19 | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Lead | BDL | 0.71 | 0.25 | ug/L | U of Idaho |
| Nickel | BDL | 1.5 | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | 12 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 590 | 57 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 16 | 27 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 150 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 58 | 120 | 25 | ug/L | U of Idaho |
| Calcium | 41000 | 41000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 1600 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Hardness | | 130 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 530 | 57 | 10 | ug/L | U of Idaho |
| Magnesium | 7100 | 6800 | 5 | ug/L | U of Idaho |
| Manganese | 140 | 130 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Potassium | 700 | 650 | 500 | ug/L | U of Idaho |
| Sodium | 4000 | 4600 | 2000 | ug/L | U of Idaho |
| Sulfate | 4300 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 150 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 170 | | 40 | mg/L | U of Idaho |
| Total Phosphorus | 100 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | 7 | | 4 | mg/L | U of Idaho |
| Uranium | 0.46 | 0.41 | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | 0.57 | 0.25 | ug/L | U of Idaho |

Station: NNATT013

Matrix: surface water

Sample Date: 6/14/2001

Event: 2

Sample Type: FD

SAMPLE ID SW-NNATT013-302

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | 0.47 | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Lead | 3 | BDL | 0.25 | ug/L | U of Idaho |
| Nickel | BDL | 2.8 | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | 13 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 540 | 66 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 17 | 26 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 140 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 35 | 260 | 25 | ug/L | U of Idaho |
| Calcium | 42000 | 41000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 2000 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Hardness | | 130 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 520 | 86 | 10 | ug/L | U of Idaho |
| Magnesium | 7500 | 6800 | 5 | ug/L | U of Idaho |
| Manganese | 140 | 130 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | 110 | | 100 | ug/L | U of Idaho |
| Potassium | 760 | 660 | 500 | ug/L | U of Idaho |
| Sodium | 4600 | 4200 | 2000 | ug/L | U of Idaho |
| Sulfate | 4400 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 140 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 180 | | 40 | mg/L | U of Idaho |
| Total Phosphorus | 110 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | 8 | | 4 | mg/L | U of Idaho |
| Uranium | 0.45 | 0.42 | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | 0.94 | 0.25 | ug/L | U of Idaho |

Station: NNATT013

Matrix: surface water

Sample Date: 6/15/2001

Event: 2

Sample Type: 4D

SAMPLE ID SW-NNATT013-402

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Nickel | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | BDL | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 530 | 40 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 16 | 12 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 140 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 74 | 97 | 25 | ug/L | U of Idaho |
| Calcium | 42000 | 49000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 1900 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Hardness | | 151 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 470 | 31 | 10 | ug/L | U of Idaho |
| Magnesium | 7300 | 6900 | 5 | ug/L | U of Idaho |
| Manganese | 100 | 94 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Potassium | 640 | BDL | 500 | ug/L | U of Idaho |
| Sodium | 4300 | 4500 | 2000 | ug/L | U of Idaho |
| Sulfate | 4500 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 140 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 150 | | 40 | mg/L | U of Idaho |
| Total Phosphorus | 110 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | 10 | | 4 | mg/L | U of Idaho |
| Uranium | 0.49 | 0.47 | 0.1 | ug/L | U of Idaho |
| Vanadium | 0.36 | BDL | 0.25 | ug/L | U of Idaho |

Station: NNBTT012

Matrix: surface water

Sample Date: 5/16/2001

Event: 1

Sample Type: FO

SAMPLE ID SW-NNBTT012-101

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|--------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | 0.2 | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | 1.5 | 0.84 | 0.13 | ug/L | U of Idaho |
| Lead | 0.54 | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | BDL | | 0.5 | ug/L | U of Idaho |
| Nickel | 1.6 | 1.8 | 0.13 | ug/L | U of Idaho |
| Selenium | 1.7 | 2.3 | 1 | ug/L | U of Idaho |
| Silver | 1.1 | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 16 | 82 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 200 | 27 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 31 | 24 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 82 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 98 | 130 | 25 | ug/L | U of Idaho |
| Calcium | 53000 | 50000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 15000 | | 100 | ug/L | U of Idaho |
| Fluoride | 120 | | 100 | ug/L | U of Idaho |
| Gross Alpha Radiation | 0 +/- 2.2 | | 2.3 | pCi/L | ACZ Laboratories |
| Gross Beta Radiation | 0.54 +/- 2.6 | | 4.1 | pCi/L | ACZ Laboratories |
| Hardness | | 166 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 59 | 24 | 10 | ug/L | U of Idaho |
| Magnesium | 11000 | 10000 | 5 | ug/L | U of Idaho |
| Manganese | 32 | 16 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Potassium | 1200 | 1100 | 500 | ug/L | U of Idaho |
| Sodium | 7000 | 7200 | 2000 | ug/L | U of Idaho |
| Sulfate | 82000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 82 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 310 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 3 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 79 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 0.21 | 0.2 | 0.1 | ug/L | U of Idaho |
| Vanadium | 1.4 | 0.79 | 0.25 | ug/L | U of Idaho |

Station: RASTT014

Matrix: surface water

Sample Date: 5/17/2001

Event: 1

Sample Type: FO

SAMPLE ID SW-RASTT014-101

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|--------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | 1.4 | BDL | 0.5 | ug/L | U of Idaho |
| Copper | 0.77 | BDL | 0.13 | ug/L | U of Idaho |
| Lead | 0.73 | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | BDL | | 0.5 | ug/L | U of Idaho |
| Nickel | 1.3 | 0.43 | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | 1 | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 83 | BDL | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 670 | 38 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 42 | 39 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 170 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 58 | 85 | 25 | ug/L | U of Idaho |
| Calcium | 51000 | 54000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 7300 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Gross Alpha Radiation | 0.84 +/- 2.2 | | 2.5 | pCi/L | ACZ Laboratories |
| Gross Beta Radiation | 0 +/- 3.1 | | 4.2 | pCi/L | ACZ Laboratories |
| Hardness | | 180 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 860 | 27 | 10 | ug/L | U of Idaho |
| Magnesium | 10000 | 11000 | 5 | ug/L | U of Idaho |
| Manganese | 71 | 38 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | 110 | | 100 | ug/L | U of Idaho |
| Potassium | 800 | 590 | 500 | ug/L | U of Idaho |
| Sodium | 5000 | 5400 | 2000 | ug/L | U of Idaho |
| Sulfate | 14000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 170 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 220 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 3 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 110 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | 34 | | 4 | mg/L | U of Idaho |
| Uranium | 0.55 | 0.46 | 0.1 | ug/L | U of Idaho |
| Vanadium | 2.3 | 0.92 | 0.25 | ug/L | U of Idaho |

Station: RASTT014

Matrix: surface water

Sample Date: 6/13/2001

Event: 2

Sample Type: FO

SAMPLE ID SW-RASTT014-102

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | 1.7 | BDL | 0.5 | ug/L | U of Idaho |
| Copper | 2.3 | BDL | 0.13 | ug/L | U of Idaho |
| Lead | 1.1 | BDL | 0.25 | ug/L | U of Idaho |
| Nickel | 1.5 | 0.69 | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | 1.6 | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 19 | 13 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 990 | 20 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 42 | 32 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 150 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 49 | 180 | 25 | ug/L | U of Idaho |
| Calcium | 48000 | 45000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | 18 | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 5500 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Hardness | | 154 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 1000 | BDL | 10 | ug/L | U of Idaho |
| Magnesium | 9800 | 10000 | 5 | ug/L | U of Idaho |
| Manganese | 59 | 24 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Potassium | 940 | 800 | 500 | ug/L | U of Idaho |
| Sodium | 5400 | 5600 | 2000 | ug/L | U of Idaho |
| Sulfate | 11000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 160 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 180 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 3 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 110 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | 34 | | 4 | mg/L | U of Idaho |
| Uranium | 0.85 | 0.48 | 0.1 | ug/L | U of Idaho |
| Vanadium | 2.9 | 1.1 | 0.25 | ug/L | U of Idaho |

Station: RASTT014

Matrix: surface water

Sample Date: 9/21/2001

Event: 3

Sample Type: FO

SAMPLE ID SW-RASTT014-103

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|--------|------------|------------------|
| Arsenic | 0.98 | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | 0.14 | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | 0.23 | BDL | 0.13 | ug/L | U of Idaho |
| Lead | 0.39 | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | 0.0023 | | 0.0002 | ug/L | ACZ Laboratories |
| Nickel | 1.9 | 0.19 | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 15 | 13 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 400 | 36 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 38 | 34 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 160 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 68 | 120 | 25 | ug/L | U of Idaho |
| Calcium | 51000 | 51000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | 8 | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 4900 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Hardness | | 173 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Magnesium | 10000 | 11000 | 5 | ug/L | U of Idaho |
| Manganese | 68 | 39 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | 2200 | | 100 | ug/L | U of Idaho |
| Sulfate | 9200 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 170 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 250 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 2 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 120 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | 36 | | 4 | mg/L | U of Idaho |
| Uranium | 0.51 | 0.53 | 0.1 | ug/L | U of Idaho |
| Vanadium | 1.2 | BDL | 0.25 | ug/L | U of Idaho |

Station: SCAETT047

Matrix: surface water

Sample Date: 7/26/2001

Event: 4

Sample Type: FO

SAMPLE ID SCAETT047-01

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|--------|-------|------------------|
| Arsenic | 0.6 | 0.6 | 0.5 | ug/L | ACZ Laboratories |
| Cadmium | BDL | BDL | 0.1 | ug/L | ACZ Laboratories |
| Chromium | 0.4 | 0.4 | 0.1 | ug/L | ACZ Laboratories |
| Copper | BDL | BDL | 0.5 | ug/L | ACZ Laboratories |
| Lead | BDL | BDL | 0.1 | ug/L | ACZ Laboratories |
| Mercury | 0.0006 | 0.0006 | 0.0002 | ug/L | ACZ Laboratories |
| Nickel | 0.8 | 0.8 | 0.2 | ug/L | ACZ Laboratories |
| Selenium | BDL | BDL | 1 | ug/L | ACZ Laboratories |
| Silver | BDL | BDL | 0.05 | ug/L | ACZ Laboratories |
| Zinc | 20 | 20 | 10 | ug/L | ACZ Laboratories |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 10.7 | 10.7 | 0.5 | ug/L | ACZ Laboratories |
| Antimony | BDL | BDL | 0.2 | ug/L | ACZ Laboratories |
| Barium | 40 | 40 | 3 | ug/L | ACZ Laboratories |
| Beryllium | BDL | BDL | 0.1 | ug/L | ACZ Laboratories |
| Bicarbonate Alkalinity | 168 | 168 | 2 | mg/L | ACZ Laboratories |
| Boron | 10 | 10 | 10 | ug/L | ACZ Laboratories |
| Calcium | 51100 | 51100 | 200 | ug/L | ACZ Laboratories |
| Carbonate Alkalinity | 10 | 10 | 2 | mg/L | ACZ Laboratories |
| Hydroxide Alkalinity | BDL | BDL | 2 | mg/L | ACZ Laboratories |
| Magnesium | 10900 | 10900 | 200 | ug/L | ACZ Laboratories |
| Manganese | BDL | BDL | 5 | ug/L | ACZ Laboratories |
| Molybdenum | 0.2 | 0.2 | 0.1 | ug/L | ACZ Laboratories |
| Thallium | BDL | BDL | 0.05 | ug/L | ACZ Laboratories |
| Total Alkalinity | 178000 | 178000 | 2000 | ug/L | ACZ Laboratories |
| Total Organic Carbon | 2 | 2 | 1 | mg/L | ACZ Laboratories |
| Uranium | 0.35 | 0.35 | 0.05 | ug/L | ACZ Laboratories |
| Vanadium | 0.47 | 0.47 | 0.05 | ug/L | ACZ Laboratories |

Station: SCAETT047**Matrix:** surface water**Sample Date:** 7/26/2001**Event:** 4**Sample Type:** FD**SAMPLE ID** SCAETT047-02

| | UNF Result | FIL Result | MDL | Units | Lab |
|----------|------------|------------|--------|-------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | ACZ Laboratories |
| Cadmium | BDL | BDL | 0.1 | ug/L | ACZ Laboratories |
| Chromium | BDL | BDL | 0.1 | ug/L | ACZ Laboratories |
| Copper | 1 | 1 | 0.5 | ug/L | ACZ Laboratories |
| Lead | BDL | BDL | 0.1 | ug/L | ACZ Laboratories |
| Mercury | 0.0009 | 0.0009 | 0.0002 | ug/L | ACZ Laboratories |
| Nickel | 1.5 | 1.5 | 0.2 | ug/L | ACZ Laboratories |
| Selenium | 1 | 1 | 1 | ug/L | ACZ Laboratories |
| Silver | BDL | BDL | 0.05 | ug/L | ACZ Laboratories |
| Zinc | 20 | 20 | 10 | ug/L | ACZ Laboratories |

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|-------|------------------|
| Aluminum | 16.6 | 16.6 | 0.5 | ug/L | ACZ Laboratories |
| Antimony | BDL | BDL | 0.2 | ug/L | ACZ Laboratories |
| Barium | 41 | 41 | 3 | ug/L | ACZ Laboratories |
| Beryllium | BDL | BDL | 0.1 | ug/L | ACZ Laboratories |
| Bicarbonate Alkalinity | 168 | 168 | 2 | mg/L | ACZ Laboratories |
| Boron | 10 | 10 | 10 | ug/L | ACZ Laboratories |
| Calcium | 51400 | 51400 | 200 | ug/L | ACZ Laboratories |
| Carbonate Alkalinity | 10 | 10 | 2 | mg/L | ACZ Laboratories |
| Hydroxide Alkalinity | BDL | BDL | 2 | mg/L | ACZ Laboratories |
| Magnesium | 10900 | 10900 | 200 | ug/L | ACZ Laboratories |
| Manganese | 6 | 6 | 5 | ug/L | ACZ Laboratories |
| Molybdenum | 0.1 | 0.1 | 0.1 | ug/L | ACZ Laboratories |
| Thallium | BDL | BDL | 0.05 | ug/L | ACZ Laboratories |
| Total Alkalinity | 178000 | 178000 | 2000 | ug/L | ACZ Laboratories |
| Total Organic Carbon | 2 | 2 | 1 | mg/L | ACZ Laboratories |
| Uranium | 0.4 | 0.4 | 0.05 | ug/L | ACZ Laboratories |
| Vanadium | 0.52 | 0.52 | 0.05 | ug/L | ACZ Laboratories |

Station: SCATT024**Matrix:** surface water**Sample Date:** 5/17/2001**Event:** 1**Sample Type:** SPL**SAMPLE ID** E0100375-4

| | UNF Result | FIL Result | MDL | Units | Lab |
|---------|------------|------------|--------|-------|------------------|
| Mercury | 0.0018 | | 0.0002 | ug/L | ACZ Laboratories |

Station: SCATT024

Matrix: surface water

Sample Date: 5/17/2001

Event: 1

Sample Type: FO

SAMPLE ID SW-SCATT024-101

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | 0.25 | BDL | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | BDL | | 0.5 | ug/L | U of Idaho |
| Nickel | 0.32 | BDL | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 59 | BDL | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 40 | 16 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 25 | 28 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 170 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 100 | 52 | 25 | ug/L | U of Idaho |
| Calcium | 50000 | 55000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | 4 | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 900 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Gross Alpha Radiation | 0 +/- 2.2 | | 2.8 | pCi/L | ACZ Laboratories |
| Gross Beta Radiation | 4 +/- 3.4 | | 4.4 | pCi/L | ACZ Laboratories |
| Hardness | | 191 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 64 | 18 | 10 | ug/L | U of Idaho |
| Magnesium | 11000 | 13000 | 5 | ug/L | U of Idaho |
| Manganese | 44 | 2.9 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Potassium | BDL | 540 | 500 | ug/L | U of Idaho |
| Sodium | 3100 | 2200 | 2000 | ug/L | U of Idaho |
| Sulfate | 13000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 180 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 200 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 1 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 16 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 0.44 | 0.43 | 0.1 | ug/L | U of Idaho |
| Vanadium | 1.1 | BDL | 0.25 | ug/L | U of Idaho |

Station: SCATT024

Matrix: surface water

Sample Date: 6/14/2001

Event: 2

Sample Type: FO

SAMPLE ID SW-SCATT024-102

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Nickel | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | BDL | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 39 | 14 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 14 | 14 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 170 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 37 | 49 | 25 | ug/L | U of Idaho |
| Calcium | 51000 | 40000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | 9 | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 1100 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Hardness | | 158 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | BDL | 39 | 10 | ug/L | U of Idaho |
| Magnesium | 13000 | 14000 | 5 | ug/L | U of Idaho |
| Manganese | 5.2 | BDL | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Potassium | 580 | 540 | 500 | ug/L | U of Idaho |
| Sodium | 2800 | 3400 | 2000 | ug/L | U of Idaho |
| Sulfate | 14000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 180 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 210 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 3 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 18 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 0.43 | 0.44 | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | BDL | 0.25 | ug/L | U of Idaho |

Station: SCATT024

Matrix: surface water

Sample Date: 9/19/2001

Event: 3

Sample Type: FO

SAMPLE ID SW-SCATT024-103

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|--------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | BDL | | 0.0002 | ug/L | ACZ Laboratories |
| Nickel | 0.91 | BDL | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 10 | 12 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 11 | 31 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 24 | 28 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 180 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 60 | 80 | 25 | ug/L | U of Idaho |
| Calcium | 53000 | 53000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 1000 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Hardness | | 194 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Magnesium | 14000 | 15000 | 5 | ug/L | U of Idaho |
| Manganese | 2.7 | BDL | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Sulfate | 19000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 180 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 180 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | BDL | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 10 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 0.42 | 0.53 | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | BDL | 0.25 | ug/L | U of Idaho |

Station: SCBETT046

Matrix: surface water

Sample Date: 7/26/2001

Event: 4

Sample Type: FO

| SAMPLE ID SCBETT046 | | | | | |
|------------------------|------------|------------|--------|-------|------------------|
| | UNF Result | FIL Result | MDL | Units | Lab |
| Arsenic | BDL | BDL | 0.5 | ug/L | ACZ Laboratories |
| Cadmium | BDL | BDL | 0.1 | ug/L | ACZ Laboratories |
| Chromium | BDL | BDL | 0.1 | ug/L | ACZ Laboratories |
| Copper | BDL | BDL | 0.5 | ug/L | ACZ Laboratories |
| Lead | BDL | BDL | 0.1 | ug/L | ACZ Laboratories |
| Mercury | 0.0028 | 0.0028 | 0.0002 | ug/L | ACZ Laboratories |
| Nickel | 1.1 | 1.1 | 0.2 | ug/L | ACZ Laboratories |
| Selenium | 3 | 3 | 1 | ug/L | ACZ Laboratories |
| Silver | BDL | BDL | 0.05 | ug/L | ACZ Laboratories |
| Zinc | 20 | 20 | 10 | ug/L | ACZ Laboratories |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 45.1 | 45.1 | 0.5 | ug/L | ACZ Laboratories |
| Antimony | BDL | BDL | 0.2 | ug/L | ACZ Laboratories |
| Barium | 38 | 38 | 3 | ug/L | ACZ Laboratories |
| Beryllium | BDL | BDL | 0.1 | ug/L | ACZ Laboratories |
| Bicarbonate Alkalinity | 189 | 189 | 2 | mg/L | ACZ Laboratories |
| Boron | 10 | 10 | 10 | ug/L | ACZ Laboratories |
| Calcium | 52900 | 52900 | 200 | ug/L | ACZ Laboratories |
| Carbonate Alkalinity | BDL | BDL | 2 | mg/L | ACZ Laboratories |
| Hydroxide Alkalinity | BDL | BDL | 2 | mg/L | ACZ Laboratories |
| Magnesium | 11000 | 11000 | 200 | ug/L | ACZ Laboratories |
| Manganese | 20 | 20 | 5 | ug/L | ACZ Laboratories |
| Molybdenum | 0.2 | 0.2 | 0.1 | ug/L | ACZ Laboratories |
| Thallium | BDL | BDL | 0.05 | ug/L | ACZ Laboratories |
| Total Alkalinity | 189000 | 189000 | 2000 | ug/L | ACZ Laboratories |
| Total Organic Carbon | 2 | 2 | 1 | mg/L | ACZ Laboratories |
| Uranium | 0.39 | 0.39 | 0.05 | ug/L | ACZ Laboratories |
| Vanadium | 0.62 | 0.62 | 0.05 | ug/L | ACZ Laboratories |

Station: SCBTT025

Matrix: surface water

Sample Date: 5/17/2001

Event: 1

Sample Type: FO

SAMPLE ID SW-SCBTT025-101

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|--------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | 0.23 | 0.16 | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | 1.4 | 1.1 | 0.13 | ug/L | U of Idaho |
| Lead | 0.29 | 0.45 | 0.25 | ug/L | U of Idaho |
| Mercury | BDL | | 0.5 | ug/L | U of Idaho |
| Nickel | 1.1 | 0.41 | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 82 | BDL | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 70 | 22 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 26 | 30 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 170 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 120 | 48 | 25 | ug/L | U of Idaho |
| Calcium | 52000 | 54000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | 6 | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 920 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Gross Alpha Radiation | 1.9 +/- 2.6 | | 2.6 | pCi/L | ACZ Laboratories |
| Gross Beta Radiation | 0.26 +/- 2.7 | | 4.3 | pCi/L | ACZ Laboratories |
| Hardness | | 188 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 98 | 12 | 10 | ug/L | U of Idaho |
| Magnesium | 12000 | 13000 | 5 | ug/L | U of Idaho |
| Manganese | 25 | 16 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Potassium | 530 | 580 | 500 | ug/L | U of Idaho |
| Sodium | 2800 | BDL | 2000 | ug/L | U of Idaho |
| Sulfate | 19000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 180 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 220 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 2 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 57 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | 7 | | 4 | mg/L | U of Idaho |
| Uranium | 0.5 | 0.44 | 0.1 | ug/L | U of Idaho |
| Vanadium | 0.57 | 0.38 | 0.25 | ug/L | U of Idaho |

Station: SCBTT025

Matrix: surface water

Sample Date: 6/14/2001

Event: 2

Sample Type: FO

SAMPLE ID SW-SCBTT025-102

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | 0.25 | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Lead | 0.89 | BDL | 0.25 | ug/L | U of Idaho |
| Nickel | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | BDL | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 94 | 29 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 16 | 14 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 180 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 65 | 91 | 25 | ug/L | U of Idaho |
| Calcium | 52000 | 51000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 1100 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Hardness | | 185 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 96 | BDL | 10 | ug/L | U of Idaho |
| Magnesium | 14000 | 14000 | 5 | ug/L | U of Idaho |
| Manganese | 32 | 25 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Potassium | 560 | 520 | 500 | ug/L | U of Idaho |
| Sodium | 3600 | 3800 | 2000 | ug/L | U of Idaho |
| Sulfate | 17000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 180 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 210 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 3 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 70 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 0.51 | 0.46 | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | BDL | 0.25 | ug/L | U of Idaho |

Station: SCBTT025

Matrix: surface water

Sample Date: 9/19/2001

Event: 3

Sample Type: FO

SAMPLE ID SW-SCBTT025-103

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|-------------------|-------------------|------------|--------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | 0.001 | | 0.0002 | ug/L | ACZ Laboratories |
| Nickel | 1.4 | 0.45 | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 12 | 14 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 37 | 19 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 32 | 36 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 200 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 110 | 96 | 25 | ug/L | U of Idaho |
| Calcium | 57000 | 59000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 1200 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Hardness | | 217 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Magnesium | 16000 | 16000 | 5 | ug/L | U of Idaho |
| Manganese | 31 | 18 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Sulfate | 26000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 200 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 190 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | BDL | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 45 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 0.54 | 0.56 | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | BDL | 0.25 | ug/L | U of Idaho |

Station: SCMTT026

Matrix: surface water

Sample Date: 5/17/2001

Event: 1

Sample Type: FO

SAMPLE ID SW-SCMTT026-101

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|-------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | 0.47 | BDL | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | BDL | | 0.5 | ug/L | U of Idaho |
| Nickel | 0.44 | BDL | 0.13 | ug/L | U of Idaho |
| Selenium | 3.2 | 2.5 | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 54 | BDL | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 100 | 31 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 36 | 42 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 180 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 90 | 96 | 25 | ug/L | U of Idaho |
| Calcium | 48000 | 54000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | 14 | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 6700 | | 100 | ug/L | U of Idaho |
| Fluoride | 310 | | 100 | ug/L | U of Idaho |
| Gross Alpha Radiation | 5.7 +/- 3.4 | | 2.6 | pCi/L | ACZ Laboratories |
| Gross Beta Radiation | 0 +/- 2.9 | | 4.2 | pCi/L | ACZ Laboratories |
| Hardness | | 217 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 160 | 16 | 10 | ug/L | U of Idaho |
| Magnesium | 20000 | 20000 | 5 | ug/L | U of Idaho |
| Manganese | 16 | 10 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Potassium | 600 | 650 | 500 | ug/L | U of Idaho |
| Sodium | 7200 | 7500 | 2000 | ug/L | U of Idaho |
| Sulfate | 30000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 190 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 240 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | BDL | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 30 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | 7 | | 4 | mg/L | U of Idaho |
| Uranium | 1.6 | 1.5 | 0.1 | ug/L | U of Idaho |
| Vanadium | 2 | 2.9 | 0.25 | ug/L | U of Idaho |

Station: SCMTT026

Matrix: surface water

Sample Date: 6/13/2001

Event: 2

Sample Type: FO

SAMPLE ID SW-SCMTT026-102

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | 0.65 | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | 0.56 | 0.13 | ug/L | U of Idaho |
| Lead | 0.32 | BDL | 0.25 | ug/L | U of Idaho |
| Nickel | BDL | 0.64 | 0.13 | ug/L | U of Idaho |
| Selenium | 2.3 | 3.6 | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | 12 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 57 | 23 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 35 | 42 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 190 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 81 | 110 | 25 | ug/L | U of Idaho |
| Calcium | 51000 | 50000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | 18 | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 6800 | | 100 | ug/L | U of Idaho |
| Fluoride | 260 | | 100 | ug/L | U of Idaho |
| Hardness | | 207 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 56 | 50 | 10 | ug/L | U of Idaho |
| Magnesium | 18000 | 20000 | 5 | ug/L | U of Idaho |
| Manganese | 9.4 | 8.6 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Potassium | 700 | 730 | 500 | ug/L | U of Idaho |
| Sodium | 6600 | 7500 | 2000 | ug/L | U of Idaho |
| Sulfate | 28000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 210 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 260 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 2 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 18 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 2.2 | 1.6 | 0.1 | ug/L | U of Idaho |
| Vanadium | 0.97 | 1.3 | 0.25 | ug/L | U of Idaho |

Station: SCMTT026

Matrix: surface water

Sample Date: 9/18/2001

Event: 3

Sample Type: FO

SAMPLE ID SW-SCMTT026-103

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|--------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | 1.6 | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | 0.0007 | | 0.0002 | ug/L | ACZ Laboratories |
| Nickel | 0.77 | 40 | 0.13 | ug/L | U of Idaho |
| Selenium | 5.1 | 4.4 | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 13 | 25 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 26 | 27 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 40 | 42 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 170 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 54 | 64 | 25 | ug/L | U of Idaho |
| Calcium | 50000 | 51000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | 13 | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 6400 | | 100 | ug/L | U of Idaho |
| Fluoride | 310 | | 100 | ug/L | U of Idaho |
| Hardness | | 210 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Magnesium | 20000 | 20000 | 5 | ug/L | U of Idaho |
| Manganese | 25 | 7.3 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Sulfate | 28000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 190 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 240 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 3 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 22 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | 6 | | 4 | mg/L | U of Idaho |
| Uranium | 1.3 | 1.5 | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | BDL | 0.25 | ug/L | U of Idaho |

Station: SCMTT026

Matrix: surface water

Sample Date: 9/18/2001

Event: 3

Sample Type: FD

SAMPLE ID SW-SCMTT026-203

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|--------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | 0.0006 | | 0.0002 | ug/L | ACZ Laboratories |
| Nickel | 0.97 | BDL | 0.13 | ug/L | U of Idaho |
| Selenium | 5.4 | 4.7 | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 13 | BDL | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 32 | 13 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 40 | 40 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 180 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 76 | 62 | 25 | ug/L | U of Idaho |
| Calcium | 53000 | 51000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | 9 | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 6500 | | 100 | ug/L | U of Idaho |
| Fluoride | 300 | | 100 | ug/L | U of Idaho |
| Hardness | | 210 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Magnesium | 21000 | 20000 | 5 | ug/L | U of Idaho |
| Manganese | 26 | 7 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Sulfate | 26000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 190 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 250 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 2 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 21 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | 5 | | 4 | mg/L | U of Idaho |
| Uranium | 1.3 | 1.6 | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | 0.8 | 0.25 | ug/L | U of Idaho |

Station: SCPTT027

Matrix: surface water

Sample Date: 6/15/2001

Event: 2

Sample Type: FO

SAMPLE ID SW-SCPTT027-102

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Lead | BDL | 4.3 | 0.25 | ug/L | U of Idaho |
| Nickel | 3.8 | BDL | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | BDL | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 32 | 23 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 19 | 18 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 170 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 37 | 110 | 25 | ug/L | U of Idaho |
| Calcium | 52000 | 49000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | 9 | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 3200 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Hardness | | 180 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 35 | BDL | 10 | ug/L | U of Idaho |
| Magnesium | 15000 | 14000 | 5 | ug/L | U of Idaho |
| Manganese | 15 | 10 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | 300 | | 100 | ug/L | U of Idaho |
| Potassium | 1100 | 1100 | 500 | ug/L | U of Idaho |
| Sodium | 6300 | 6200 | 2000 | ug/L | U of Idaho |
| Sulfate | 32000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 180 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 240 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 3 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 36 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 0.47 | 0.47 | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | BDL | 0.25 | ug/L | U of Idaho |

Station: SCPTT027**Matrix:** surface water**Sample Date:** 9/19/2001**Event:** 3**Sample Type:** FO**SAMPLE ID** SW-SCPTT027-103

| | UNF Result | FIL Result | MDL | Units | Lab |
|----------|------------|------------|--------|-------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | 0.19 | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | 0.0005 | | 0.0002 | ug/L | ACZ Laboratories |
| Nickel | 0.84 | 0.37 | 0.13 | ug/L | U of Idaho |
| Selenium | 1.2 | 1.1 | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | BDL | 10 | ug/L | U of Idaho |

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------------|
| Aluminum | 10 | 17 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 27 | 32 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 140 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 70 | 110 | 25 | ug/L | U of Idaho |
| Calcium | 44000 | 48000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | 6 | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 4000 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Hardness | | 182 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Magnesium | 14000 | 15000 | 5 | ug/L | U of Idaho |
| Manganese | 3.1 | BDL | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Sulfate | 34000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | 4.2 | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 150 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 170 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 2 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | BDL | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 0.35 | 1.5 | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | BDL | 0.25 | ug/L | U of Idaho |

Station: SHETT019**Matrix:** surface water**Sample Date:** 5/17/2001**Event:** 1**Sample Type:** SPL**SAMPLE ID** E0100388-4

| | UNF Result | FIL Result | MDL | Units | Lab |
|---------|------------|------------|--------|-------|------------------|
| Mercury | 0.0028 | | 0.0002 | ug/L | ACZ Laboratories |

Station: SHETT019

Matrix: surface water

Sample Date: 5/17/2001

Event: 1

Sample Type: FO

SAMPLE ID SW-SHETT019-101

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|--------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | 0.57 | BDL | 0.5 | ug/L | U of Idaho |
| Copper | 0.82 | 5.9 | 0.13 | ug/L | U of Idaho |
| Lead | 0.43 | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | BDL | | 0.5 | ug/L | U of Idaho |
| Nickel | 2.8 | 1 | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 53 | 16 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 440 | 45 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 62 | 67 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 170 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 79 | 120 | 25 | ug/L | U of Idaho |
| Calcium | 53000 | 58000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 1800 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Gross Alpha Radiation | 0.39 +/- 2.1 | | 2.4 | pCi/L | ACZ Laboratories |
| Gross Beta Radiation | 0 +/- 2.7 | | 4.1 | pCi/L | ACZ Laboratories |
| Hardness | | 198 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 540 | 17 | 10 | ug/L | U of Idaho |
| Magnesium | 12000 | 13000 | 5 | ug/L | U of Idaho |
| Manganese | 22 | 12 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Potassium | 720 | 660 | 500 | ug/L | U of Idaho |
| Sodium | 3700 | 3800 | 2000 | ug/L | U of Idaho |
| Sulfate | 24000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 170 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 230 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 1 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 92 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | 19 | | 4 | mg/L | U of Idaho |
| Uranium | 0.49 | 0.41 | 0.1 | ug/L | U of Idaho |
| Vanadium | 1.4 | 0.53 | 0.25 | ug/L | U of Idaho |

Station: SHETT019

Matrix: surface water

Sample Date: 6/14/2001

Event: 2

Sample Type: FO

SAMPLE ID SW-SHETT019-102

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Nickel | BDL | 0.6 | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | 0.34 | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | 12 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 120 | 20 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 56 | 69 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 190 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 39 | 170 | 25 | ug/L | U of Idaho |
| Calcium | 57000 | 54000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 1900 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Hardness | | 188 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 140 | 74 | 10 | ug/L | U of Idaho |
| Magnesium | 13000 | 13000 | 5 | ug/L | U of Idaho |
| Manganese | 12 | 15 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Potassium | 580 | 500 | 500 | ug/L | U of Idaho |
| Sodium | 4600 | 4500 | 2000 | ug/L | U of Idaho |
| Sulfate | 10000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 190 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 220 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 2 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 48 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | 4 | | 4 | mg/L | U of Idaho |
| Uranium | 0.47 | 0.46 | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | 0.37 | 0.25 | ug/L | U of Idaho |

Station: SHETT019

Matrix: surface water

Sample Date: 9/20/2001

Event: 3

Sample Type: FO

SAMPLE ID SW-SHETT019-103

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|-------------------|-------------------|------------|--------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | 0.0021 | | 0.0002 | ug/L | ACZ Laboratories |
| Nickel | 1.3 | 0.38 | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | BDL | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 30 | 15 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 65 | 70 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 190 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 73 | 63 | 25 | ug/L | U of Idaho |
| Calcium | 56000 | 57000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | 13 | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 1800 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Hardness | | 200 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Magnesium | 13000 | 14000 | 5 | ug/L | U of Idaho |
| Manganese | 5.3 | 2 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Sulfate | 6500 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 200 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 240 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 5 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 32 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 0.45 | 0.5 | 0.1 | ug/L | U of Idaho |
| Vanadium | 1.9 | BDL | 0.25 | ug/L | U of Idaho |

Station: SLCTT002

Matrix: surface water

Sample Date: 5/17/2001

Event: 1

Sample Type: FO

SAMPLE ID SW-SLCTT002-101

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|--------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | 1.2 | BDL | 0.5 | ug/L | U of Idaho |
| Copper | 0.9 | BDL | 0.13 | ug/L | U of Idaho |
| Lead | 0.65 | 0.34 | 0.25 | ug/L | U of Idaho |
| Mercury | BDL | | 0.5 | ug/L | U of Idaho |
| Nickel | 1.6 | BDL | 0.13 | ug/L | U of Idaho |
| Selenium | 2.5 | 2.2 | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 68 | BDL | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 250 | 41 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 29 | 36 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 150 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 49 | 72 | 25 | ug/L | U of Idaho |
| Calcium | 42000 | 48000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | 3 | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 4700 | | 100 | ug/L | U of Idaho |
| Fluoride | 160 | | 100 | ug/L | U of Idaho |
| Gross Alpha Radiation | 0.28 +/- 2.1 | | 2.5 | pCi/L | ACZ Laboratories |
| Gross Beta Radiation | 0 +/- 2.8 | | 4.3 | pCi/L | ACZ Laboratories |
| Hardness | | 165 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 320 | 19 | 10 | ug/L | U of Idaho |
| Magnesium | 10000 | 11000 | 5 | ug/L | U of Idaho |
| Manganese | 19 | 18 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Potassium | 770 | 770 | 500 | ug/L | U of Idaho |
| Sodium | 5800 | 6200 | 2000 | ug/L | U of Idaho |
| Sulfate | 16000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 160 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 210 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 2 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 120 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | 10 | | 4 | mg/L | U of Idaho |
| Uranium | 0.85 | 0.73 | 0.1 | ug/L | U of Idaho |
| Vanadium | 3.6 | 3.9 | 0.25 | ug/L | U of Idaho |

Station: SLCTT002

Matrix: surface water

Sample Date: 6/15/2001

Event: 2

Sample Type: FO

SAMPLE ID SW-SLCTT002-102

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Nickel | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Selenium | 1.3 | 1.2 | 1 | ug/L | U of Idaho |
| Silver | BDL | 3.2 | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | BDL | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 220 | 27 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 20 | 17 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 170 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 56 | 88 | 25 | ug/L | U of Idaho |
| Calcium | 53000 | 58000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 5200 | | 100 | ug/L | U of Idaho |
| Fluoride | 150 | | 100 | ug/L | U of Idaho |
| Hardness | | 190 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 220 | 16 | 10 | ug/L | U of Idaho |
| Magnesium | 12000 | 11000 | 5 | ug/L | U of Idaho |
| Manganese | 12 | 6.6 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | 640 | | 100 | ug/L | U of Idaho |
| Potassium | 710 | 760 | 500 | ug/L | U of Idaho |
| Sodium | 7700 | 7400 | 2000 | ug/L | U of Idaho |
| Sulfate | 11000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 170 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 210 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 3 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 120 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | 6 | | 4 | mg/L | U of Idaho |
| Uranium | 0.83 | 0.78 | 0.1 | ug/L | U of Idaho |
| Vanadium | 1.1 | 0.65 | 0.25 | ug/L | U of Idaho |

Station: SLCTT002**Matrix:** surface water**Sample Date:** 9/20/2001**Event:** 3**Sample Type:** FO**SAMPLE ID** SW-SLCTT002-103

| | UNF Result | FIL Result | MDL | Units | Lab |
|----------|------------|------------|--------|-------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | 0.35 | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | 0.66 | BDL | 0.13 | ug/L | U of Idaho |
| Lead | 0.58 | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | 0.006 | | 0.0002 | ug/L | ACZ Laboratories |
| Nickel | 2.5 | 1.1 | 0.13 | ug/L | U of Idaho |
| Selenium | 2.2 | 1.4 | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 21 | 14 | 10 | ug/L | U of Idaho |

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------------|
| Aluminum | 400 | 29 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 47 | 41 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 180 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 60 | 50 | 25 | ug/L | U of Idaho |
| Calcium | 51000 | 50000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 4800 | | 100 | ug/L | U of Idaho |
| Fluoride | 160 | | 100 | ug/L | U of Idaho |
| Hardness | | 170 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Magnesium | 11000 | 11000 | 5 | ug/L | U of Idaho |
| Manganese | 57 | 22 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Sulfate | 6100 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 180 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 260 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 4 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 250 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | 71 | | 4 | mg/L | U of Idaho |
| Uranium | 1.1 | 1.2 | 0.1 | ug/L | U of Idaho |
| Vanadium | 3.2 | 1.3 | 0.25 | ug/L | U of Idaho |

Station: SLUTT005**Matrix:** surface water**Sample Date:** 5/16/2001**Event:** 1**Sample Type:** SPL**SAMPLE ID** E0100353-4

| | UNF Result | FIL Result | MDL | Units | Lab |
|---------|------------|------------|--------|-------|------------------|
| Mercury | 0.0027 | | 0.0002 | ug/L | ACZ Laboratories |

Station: SLUTT005

Matrix: surface water

Sample Date: 5/16/2001

Event: 1

Sample Type: FO

SAMPLE ID SW-SLUTT005-101

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|-------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | 0.13 | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | 0.26 | 0.5 | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | BDL | | 0.5 | ug/L | U of Idaho |
| Nickel | BDL | 0.65 | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 11 | 52 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 490 | 15 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 89 | 74 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 210 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 60 | 130 | 25 | ug/L | U of Idaho |
| Calcium | 63000 | 60000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | 5 | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 4100 | | 100 | ug/L | U of Idaho |
| Fluoride | 280 | | 100 | ug/L | U of Idaho |
| Gross Alpha Radiation | 1.5 +/- 2.3 | | 2.6 | pCi/L | ACZ Laboratories |
| Gross Beta Radiation | 2.4 +/- 2.9 | | 4.1 | pCi/L | ACZ Laboratories |
| Hardness | | 203 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 430 | 15 | 10 | ug/L | U of Idaho |
| Magnesium | 14000 | 13000 | 5 | ug/L | U of Idaho |
| Manganese | 50 | 21 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Potassium | 2800 | 2700 | 500 | ug/L | U of Idaho |
| Sodium | 5700 | 5800 | 2000 | ug/L | U of Idaho |
| Sulfate | 4700 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 220 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 250 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 4 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 130 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | 15 | | 4 | mg/L | U of Idaho |
| Uranium | 1.1 | 1.2 | 0.1 | ug/L | U of Idaho |
| Vanadium | 3 | 2.1 | 0.25 | ug/L | U of Idaho |

Station: SLUTT005

Matrix: surface water

Sample Date: 6/14/2001

Event: 2

Sample Type: FO

SAMPLE ID SW-SLUTT005-102

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | 0.17 | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Nickel | BDL | 0.83 | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | 12 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 150 | 13 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 66 | 77 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 220 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 76 | 160 | 25 | ug/L | U of Idaho |
| Calcium | 60000 | 59000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 3600 | | 100 | ug/L | U of Idaho |
| Fluoride | 230 | | 100 | ug/L | U of Idaho |
| Hardness | | 201 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 860 | 15 | 10 | ug/L | U of Idaho |
| Magnesium | 14000 | 13000 | 5 | ug/L | U of Idaho |
| Manganese | 32 | 23 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | 100 | | 100 | ug/L | U of Idaho |
| Potassium | 2500 | 2600 | 500 | ug/L | U of Idaho |
| Sodium | 5500 | 5300 | 2000 | ug/L | U of Idaho |
| Sulfate | 3300 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 220 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 260 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 4 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 100 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | 6 | | 4 | mg/L | U of Idaho |
| Uranium | 1.1 | 1.1 | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | 1.8 | 0.25 | ug/L | U of Idaho |

Station: SLUTT005**Matrix:** surface water**Sample Date:** 9/20/2001**Event:** 3**Sample Type:** FO**SAMPLE ID** SW-SLUTT005-103

| | UNF Result | FIL Result | MDL | Units | Lab |
|----------|------------|------------|--------|-------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | 0.0018 | | 0.0002 | ug/L | ACZ Laboratories |
| Nickel | 1.4 | 0.23 | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | 11 | 10 | ug/L | U of Idaho |

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------------|
| Aluminum | 45 | 34 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 81 | 87 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 220 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 63 | 180 | 25 | ug/L | U of Idaho |
| Calcium | 58000 | 62000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 3700 | | 100 | ug/L | U of Idaho |
| Fluoride | 260 | | 100 | ug/L | U of Idaho |
| Hardness | | 217 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Magnesium | 14000 | 15000 | 5 | ug/L | U of Idaho |
| Manganese | 17 | 14 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Sulfate | 3300 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 220 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 210 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 3 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 82 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 1.3 | 1.5 | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | 0.55 | 0.25 | ug/L | U of Idaho |

Station: SMATT021**Matrix:** surface water**Sample Date:** 5/16/2001**Event:** 1**Sample Type:** SPL**SAMPLE ID** E0100361-4

| | UNF Result | FIL Result | MDL | Units | Lab |
|---------|------------|------------|--------|-------|------------------|
| Mercury | 0.0013 | | 0.0002 | ug/L | ACZ Laboratories |

Station: SMATT021

Matrix: surface water

Sample Date: 5/16/2001

Event: 1

Sample Type: FO

SAMPLE ID SW-SMATT021-101

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|--------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | 0.16 | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | 0.22 | 0.69 | 0.13 | ug/L | U of Idaho |
| Lead | BDL | 0.38 | 0.25 | ug/L | U of Idaho |
| Mercury | BDL | | 0.5 | ug/L | U of Idaho |
| Nickel | BDL | 0.42 | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | 46 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 71 | 12 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 24 | 20 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 210 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 57 | 110 | 25 | ug/L | U of Idaho |
| Calcium | 56000 | 54000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 1300 | | 100 | ug/L | U of Idaho |
| Fluoride | 100 | | 100 | ug/L | U of Idaho |
| Gross Alpha Radiation | 0.61 +/- 2.2 | | 2.6 | pCi/L | ACZ Laboratories |
| Gross Beta Radiation | 2.5 +/- 3 | | 4.3 | pCi/L | ACZ Laboratories |
| Hardness | | 201 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 80 | BDL | 10 | ug/L | U of Idaho |
| Magnesium | 17000 | 16000 | 5 | ug/L | U of Idaho |
| Manganese | 13 | BDL | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Potassium | 640 | 750 | 500 | ug/L | U of Idaho |
| Sodium | 4000 | 3800 | 2000 | ug/L | U of Idaho |
| Sulfate | 16000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 210 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 240 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | BDL | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 14 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 0.33 | 0.45 | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | 0.71 | 0.25 | ug/L | U of Idaho |

Station: SMATT021

Matrix: surface water

Sample Date: 6/14/2001

Event: 2

Sample Type: FO

SAMPLE ID SW-SMATT021-102

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | 0.49 | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Lead | 4.2 | BDL | 0.25 | ug/L | U of Idaho |
| Nickel | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | BDL | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 62 | 22 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 11 | 11 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 210 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 40 | 64 | 25 | ug/L | U of Idaho |
| Calcium | 56000 | 54000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 1200 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Hardness | | 205 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 67 | BDL | 10 | ug/L | U of Idaho |
| Magnesium | 17000 | 17000 | 5 | ug/L | U of Idaho |
| Manganese | 47 | 5.2 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | 150 | | 100 | ug/L | U of Idaho |
| Potassium | 690 | 700 | 500 | ug/L | U of Idaho |
| Sodium | 5100 | 5300 | 2000 | ug/L | U of Idaho |
| Sulfate | 15000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 210 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 240 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 4 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 66 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | 13 | | 4 | mg/L | U of Idaho |
| Uranium | 0.3 | 0.32 | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | BDL | 0.25 | ug/L | U of Idaho |

Station: SMATT021

Matrix: surface water

Sample Date: 9/19/2001

Event: 3

Sample Type: FO

SAMPLE ID SW-SMATT021-103

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|--------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | 1.6 | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | 0.0009 | | 0.0002 | ug/L | ACZ Laboratories |
| Nickel | 1.4 | BDL | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 10 | 12 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 110 | 92 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 25 | 26 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 210 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 64 | 340 | 25 | ug/L | U of Idaho |
| Calcium | 58000 | 59000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 1100 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Hardness | | 221 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Magnesium | 16000 | 18000 | 5 | ug/L | U of Idaho |
| Manganese | 56 | 7.6 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Sulfate | 16000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 210 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 210 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | BDL | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 52 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | 21 | | 4 | mg/L | U of Idaho |
| Uranium | 0.27 | 0.31 | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | BDL | 0.25 | ug/L | U of Idaho |

Station: SMBTT020

Matrix: surface water

Sample Date: 5/16/2001

Event: 1

Sample Type: FO

SAMPLE ID SW-SMBTT020-101

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|-------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | 0.27 | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | 1.1 | BDL | 0.5 | ug/L | U of Idaho |
| Copper | 1.2 | 0.46 | 0.13 | ug/L | U of Idaho |
| Lead | 0.96 | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | BDL | | 0.5 | ug/L | U of Idaho |
| Nickel | 0.89 | 0.41 | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 16 | 68 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 1500 | 17 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 42 | 24 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 200 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 110 | 120 | 25 | ug/L | U of Idaho |
| Calcium | 62000 | 55000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | 6 | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 9300 | | 100 | ug/L | U of Idaho |
| Fluoride | 130 | | 100 | ug/L | U of Idaho |
| Gross Alpha Radiation | 1.3 +/- 2.5 | | 2.7 | pCi/L | ACZ Laboratories |
| Gross Beta Radiation | 1.8 +/- 2.8 | | 4.3 | pCi/L | ACZ Laboratories |
| Hardness | | 199 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 1900 | 28 | 10 | ug/L | U of Idaho |
| Magnesium | 16000 | 15000 | 5 | ug/L | U of Idaho |
| Manganese | 200 | 46 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Potassium | 1400 | 910 | 500 | ug/L | U of Idaho |
| Sodium | 6200 | 6000 | 2000 | ug/L | U of Idaho |
| Sulfate | 16000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 200 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 240 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 6 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 250 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | 59 | | 4 | mg/L | U of Idaho |
| Uranium | 0.67 | 0.55 | 0.1 | ug/L | U of Idaho |
| Vanadium | 4.6 | 1 | 0.25 | ug/L | U of Idaho |

Station: SMBTT020

Matrix: surface water

Sample Date: 6/13/2001

Event: 2

Sample Type: FO

SAMPLE ID SW-SMBTT020-102

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | 1.6 | BDL | 0.5 | ug/L | U of Idaho |
| Copper | 0.42 | BDL | 0.13 | ug/L | U of Idaho |
| Lead | 0.91 | BDL | 0.25 | ug/L | U of Idaho |
| Nickel | 2.3 | 0.67 | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | 0.33 | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 15 | 13 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 810 | 18 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 31 | 26 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 200 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 54 | 210 | 25 | ug/L | U of Idaho |
| Calcium | 61000 | 57000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | 18 | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 7000 | | 100 | ug/L | U of Idaho |
| Fluoride | 100 | | 100 | ug/L | U of Idaho |
| Hardness | | 208 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 1100 | 12 | 10 | ug/L | U of Idaho |
| Magnesium | 16000 | 16000 | 5 | ug/L | U of Idaho |
| Manganese | 140 | 50 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Potassium | 940 | 810 | 500 | ug/L | U of Idaho |
| Sodium | 6300 | 6000 | 2000 | ug/L | U of Idaho |
| Sulfate | 15000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 220 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 260 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 4 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 170 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | 38 | | 4 | mg/L | U of Idaho |
| Uranium | 0.92 | 0.51 | 0.1 | ug/L | U of Idaho |
| Vanadium | 2.1 | 0.67 | 0.25 | ug/L | U of Idaho |

Station: SMBTT020

Matrix: surface water

Sample Date: 9/19/2001

Event: 3

Sample Type: FO

SAMPLE ID SW-SMBTT020-103

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|--------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | 0.68 | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | 0.0011 | | 0.0002 | ug/L | ACZ Laboratories |
| Nickel | 1.2 | 12 | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 10 | 16 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 98 | 22 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 27 | 26 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 200 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 88 | 100 | 25 | ug/L | U of Idaho |
| Calcium | 60000 | 60000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | 13 | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 5100 | | 100 | ug/L | U of Idaho |
| Fluoride | 120 | | 100 | ug/L | U of Idaho |
| Hardness | | 220 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Magnesium | 16000 | 17000 | 5 | ug/L | U of Idaho |
| Manganese | 82 | 39 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Sulfate | 15000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 210 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 210 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 2 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 110 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | 23 | | 4 | mg/L | U of Idaho |
| Uranium | 0.46 | 0.55 | 0.1 | ug/L | U of Idaho |
| Vanadium | 0.85 | BDL | 0.25 | ug/L | U of Idaho |

Station: SPRTT016

Matrix: surface water

Sample Date: 5/17/2001

Event: 1

Sample Type: FO

SAMPLE ID SW-SPRTT016-101

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|--------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | 1.9 | BDL | 0.5 | ug/L | U of Idaho |
| Copper | 15 | BDL | 0.13 | ug/L | U of Idaho |
| Lead | 0.54 | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | BDL | | 0.5 | ug/L | U of Idaho |
| Nickel | 1.2 | BDL | 0.13 | ug/L | U of Idaho |
| Selenium | 13 | 13 | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 110 | BDL | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 260 | 13 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 34 | 35 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 190 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 110 | 35 | 25 | ug/L | U of Idaho |
| Calcium | 52000 | 57000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 1600 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Gross Alpha Radiation | 1.6 +/- 2.4 | | 2.4 | pCi/L | ACZ Laboratories |
| Gross Beta Radiation | 0.92 +/- 2.9 | | 4.3 | pCi/L | ACZ Laboratories |
| Hardness | | 188 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 410 | BDL | 10 | ug/L | U of Idaho |
| Magnesium | 11000 | 11000 | 5 | ug/L | U of Idaho |
| Manganese | 29 | 17 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Potassium | BDL | BDL | 500 | ug/L | U of Idaho |
| Sodium | 3900 | 4200 | 2000 | ug/L | U of Idaho |
| Sulfate | 10000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 190 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 210 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 3 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 69 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | 12 | | 4 | mg/L | U of Idaho |
| Uranium | 0.46 | 0.39 | 0.1 | ug/L | U of Idaho |
| Vanadium | 1.1 | BDL | 0.25 | ug/L | U of Idaho |

Station: SPRTT016

Matrix: surface water

Sample Date: 6/14/2001

Event: 2

Sample Type: FO

SAMPLE ID SW-SPRTT016-102

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | 31 | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Nickel | BDL | 0.51 | 0.13 | ug/L | U of Idaho |
| Selenium | 5.7 | 6.1 | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | 12 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 28 | 16 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 24 | 37 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 170 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 68 | 160 | 25 | ug/L | U of Idaho |
| Calcium | 54000 | 52000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | 6 | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 1800 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Hardness | | 175 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 16 | BDL | 10 | ug/L | U of Idaho |
| Magnesium | 12000 | 11000 | 5 | ug/L | U of Idaho |
| Manganese | 8.8 | 11 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Potassium | BDL | BDL | 500 | ug/L | U of Idaho |
| Sodium | 4200 | 4100 | 2000 | ug/L | U of Idaho |
| Sulfate | 8900 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 170 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 210 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 2 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 34 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 0.41 | 0.4 | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | BDL | 0.25 | ug/L | U of Idaho |

Station: SPRTT016

Matrix: surface water

Sample Date: 6/15/2001

Event: 2

Sample Type: 4D

SAMPLE ID SW-SPRTT016-202

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Nickel | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Selenium | 5.3 | 5.5 | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | BDL | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 70 | 14 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 24 | 21 | 10 | ug/L | U of Idaho |
| Beryllium | 5 | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 180 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 56 | 71 | 25 | ug/L | U of Idaho |
| Calcium | 52000 | 52000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | 9 | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 6600 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Hardness | | 175 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 22 | BDL | 10 | ug/L | U of Idaho |
| Magnesium | 11000 | 11000 | 5 | ug/L | U of Idaho |
| Manganese | 10 | 8.1 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | 110 | | 100 | ug/L | U of Idaho |
| Potassium | 510 | BDL | 500 | ug/L | U of Idaho |
| Sodium | 3700 | 4000 | 2000 | ug/L | U of Idaho |
| Sulfate | 16000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 190 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 210 | | 40 | mg/L | U of Idaho |
| Total Phosphorus | 50 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 0.42 | 0.37 | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | BDL | 0.25 | ug/L | U of Idaho |

Station: SPRTT016

Matrix: surface water

Sample Date: 6/16/2001

Event: 2

Sample Type: 4D

SAMPLE ID SW-SPRTT016-302

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | 0.81 | 0.13 | ug/L | U of Idaho |
| Lead | BDL | 4.8 | 0.25 | ug/L | U of Idaho |
| Nickel | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Selenium | 4.4 | 4.6 | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | BDL | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 29 | 27 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 24 | 25 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 190 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 64 | 47 | 25 | ug/L | U of Idaho |
| Calcium | 54000 | 55000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 1700 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Hardness | | 187 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 30 | 10 | 10 | ug/L | U of Idaho |
| Magnesium | 12000 | 12000 | 5 | ug/L | U of Idaho |
| Manganese | 13 | 12 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Potassium | BDL | 520 | 500 | ug/L | U of Idaho |
| Sodium | 3900 | 4400 | 2000 | ug/L | U of Idaho |
| Sulfate | 8600 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 190 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 200 | | 40 | mg/L | U of Idaho |
| Total Phosphorus | 23 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 0.44 | 0.41 | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | BDL | 0.25 | ug/L | U of Idaho |

Station: SPRTT016

Matrix: surface water

Sample Date: 9/21/2001

Event: 3

Sample Type: FO

SAMPLE ID SW-SPRTT016-103

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|--------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | 0.0004 | | 0.0002 | ug/L | ACZ Laboratories |
| Nickel | 1.1 | 0.99 | 0.13 | ug/L | U of Idaho |
| Selenium | 1 | 2.3 | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | 11 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 17 | 26 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 36 | 42 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 200 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 87 | 110 | 25 | ug/L | U of Idaho |
| Calcium | 54000 | 46000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 1500 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Hardness | | 164 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Magnesium | 11000 | 12000 | 5 | ug/L | U of Idaho |
| Manganese | 15 | 13 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Sulfate | 7400 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 200 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 240 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 1 | | 1 | | ACZ Laboratories |
| Total Phosphorus | 28 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 0.34 | 0.39 | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | BDL | 0.25 | ug/L | U of Idaho |

Station: SPRTT016**Matrix:** surface water**Sample Date:** 9/21/2001**Event:** 3**Sample Type:** SPL**SAMPLE ID** SW-SPRTT016-SP3U

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------|-------------------|-------------------|------------|--------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | ACZ Laboratories |
| Cadmium | BDL | BDL | 0.1 | ug/L | ACZ Laboratories |
| Chromium | 0.4 | 0.4 | 0.1 | ug/L | ACZ Laboratories |
| Copper | BDL | BDL | 10 | ug/L | ACZ Laboratories |
| Lead | 0.1 | 0.1 | 0.1 | ug/L | ACZ Laboratories |
| Nickel | 2 | 2.1 | 0.2 | ug/L | ACZ Laboratories |
| Selenium | BDL | 2 | 1 | ug/L | ACZ Laboratories |
| Silver | BDL | BDL | 0.05 | ug/L | ACZ Laboratories |
| Zinc | BDL | BDL | 10 | ug/L | ACZ Laboratories |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 15 | 3 | 1 | ug/L | ACZ Laboratories |
| Antimony | BDL | BDL | 0.2 | ug/L | ACZ Laboratories |
| Barium | 41 | 41 | 3 | ug/L | ACZ Laboratories |
| Beryllium | BDL | BDL | 2 | ug/L | ACZ Laboratories |
| Boron | 10 | 10 | 10 | ug/L | ACZ Laboratories |
| Manganese | 16 | 15 | 5 | ug/L | ACZ Laboratories |
| Molybdenum | 0.2 | 0.2 | 0.1 | ug/L | ACZ Laboratories |
| Thallium | BDL | BDL | 0.05 | ug/L | ACZ Laboratories |
| Uranium | 0.34 | 0.34 | 0.05 | ug/L | ACZ Laboratories |
| Vanadium | 0.69 | 0.83 | 0.05 | ug/L | ACZ Laboratories |

Station: SSBTT022

Matrix: surface water

Sample Date: 5/17/2001

Event: 1

Sample Type: FO

SAMPLE ID SW-SSBTT022-101

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|-------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | 0.26 | 0.29 | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | BDL | | 0.5 | ug/L | U of Idaho |
| Nickel | 0.51 | BDL | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | 1.4 | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 66 | BDL | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 17 | 39 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 38 | 48 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 210 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 110 | 88 | 25 | ug/L | U of Idaho |
| Calcium | 47000 | 50000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 4200 | | 100 | ug/L | U of Idaho |
| Fluoride | 300 | | 100 | ug/L | U of Idaho |
| Gross Alpha Radiation | 3.7 +/- 3 | | 2.5 | pCi/L | ACZ Laboratories |
| Gross Beta Radiation | 1.8 +/- 2.8 | | 4.1 | pCi/L | ACZ Laboratories |
| Hardness | | 207 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | BDL | BDL | 10 | ug/L | U of Idaho |
| Magnesium | 20000 | 20000 | 5 | ug/L | U of Idaho |
| Manganese | BDL | 3.4 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | 110 | | 100 | ug/L | U of Idaho |
| Potassium | 650 | 720 | 500 | ug/L | U of Idaho |
| Sodium | 4900 | 5700 | 2000 | ug/L | U of Idaho |
| Sulfate | 13000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 210 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 220 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | BDL | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | BDL | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 1.9 | 1.9 | 0.1 | ug/L | U of Idaho |
| Vanadium | 0.84 | 1.9 | 0.25 | ug/L | U of Idaho |

Station: SSBTT022

Matrix: surface water

Sample Date: 5/17/2001

Event: 1

Sample Type: FD

SAMPLE ID SW-SSBTT022-201

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | 0.94 | BDL | 0.5 | ug/L | U of Idaho |
| Copper | 0.37 | BDL | 0.13 | ug/L | U of Idaho |
| Lead | BDL | 0.66 | 0.25 | ug/L | U of Idaho |
| Mercury | BDL | | 0.5 | ug/L | U of Idaho |
| Nickel | 2.2 | BDL | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | 1.2 | 1 | ug/L | U of Idaho |
| Silver | BDL | 0.56 | 0.25 | ug/L | U of Idaho |
| Zinc | 66 | BDL | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 14 | 18 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 38 | 45 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 200 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 110 | 48 | 25 | ug/L | U of Idaho |
| Calcium | 47000 | 51000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 4200 | | 100 | ug/L | U of Idaho |
| Fluoride | 290 | | 100 | ug/L | U of Idaho |
| Gross Alpha Radiation | 5 +/- 3.3 | | 2.6 | pCi/L | ACZ Laboratories |
| Gross Beta Radiation | 3 +/- 3 | | 4.3 | pCi/L | ACZ Laboratories |
| Hardness | | 210 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 130 | BDL | 10 | ug/L | U of Idaho |
| Magnesium | 20000 | 20000 | 5 | ug/L | U of Idaho |
| Manganese | BDL | 3.8 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | 110 | | 100 | ug/L | U of Idaho |
| Potassium | 630 | 630 | 500 | ug/L | U of Idaho |
| Sodium | 4600 | 4100 | 2000 | ug/L | U of Idaho |
| Sulfate | 13000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 200 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 220 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | BDL | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | BDL | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 1.9 | 1.9 | 0.1 | ug/L | U of Idaho |
| Vanadium | 1.1 | 1.2 | 0.25 | ug/L | U of Idaho |

Station: SSBTT022

Matrix: surface water

Sample Date: 6/14/2001

Event: 2

Sample Type: FO

SAMPLE ID SW-SSBTT022-102

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | 1.5 | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Nickel | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Selenium | 1.2 | 1.6 | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | BDL | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 54 | 19 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 31 | 30 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 200 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 65 | 58 | 25 | ug/L | U of Idaho |
| Calcium | 49000 | 48000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 4600 | | 100 | ug/L | U of Idaho |
| Fluoride | 270 | | 100 | ug/L | U of Idaho |
| Hardness | | 206 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 30 | BDL | 10 | ug/L | U of Idaho |
| Magnesium | 20000 | 21000 | 5 | ug/L | U of Idaho |
| Manganese | 8.4 | 2.5 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | 140 | | 100 | ug/L | U of Idaho |
| Potassium | 730 | 750 | 500 | ug/L | U of Idaho |
| Sodium | 5400 | 5200 | 2000 | ug/L | U of Idaho |
| Sulfate | 13000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 200 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 240 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 3 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 59 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 1.9 | 1.8 | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | BDL | 0.25 | ug/L | U of Idaho |

Station: SSBTT022

Matrix: surface water

Sample Date: 9/19/2001

Event: 3

Sample Type: FO

SAMPLE ID SW-SSBTT022-103

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | 0.36 | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | 0.86 | 0.5 | ug/L | U of Idaho |
| Copper | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Nickel | 0.78 | 1.8 | 0.13 | ug/L | U of Idaho |
| Selenium | 2.2 | 1.8 | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | 11 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | BDL | 13 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 41 | 43 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 200 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 48 | 41 | 25 | ug/L | U of Idaho |
| Calcium | 50000 | 52000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 4200 | | 100 | ug/L | U of Idaho |
| Fluoride | 300 | | 100 | ug/L | U of Idaho |
| Hardness | | 216 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Magnesium | 20000 | 21000 | 5 | ug/L | U of Idaho |
| Manganese | 3 | BDL | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | 130 | | 100 | ug/L | U of Idaho |
| Sulfate | 13000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 200 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 200 | | 40 | mg/L | U of Idaho |
| Total Phosphorus | 11 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 1.7 | 1.9 | 0.1 | ug/L | U of Idaho |
| Vanadium | 0.94 | BDL | 0.25 | ug/L | U of Idaho |

Station: SSBTT022**Matrix:** surface water**Sample Date:** 9/19/2001**Event:** 3**Sample Type:** SPL**SAMPLE ID** SW-SSBTT022-SP3U

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------|-------------------|-------------------|------------|--------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | ACZ Laboratories |
| Cadmium | BDL | BDL | 0.1 | ug/L | ACZ Laboratories |
| Chromium | 0.8 | 0.8 | 0.1 | ug/L | ACZ Laboratories |
| Copper | BDL | BDL | 10 | ug/L | ACZ Laboratories |
| Lead | BDL | BDL | 0.1 | ug/L | ACZ Laboratories |
| Nickel | 1.7 | 1.7 | 0.2 | ug/L | ACZ Laboratories |
| Selenium | BDL | BDL | 1 | ug/L | ACZ Laboratories |
| Silver | BDL | BDL | 0.05 | ug/L | ACZ Laboratories |
| Zinc | BDL | BDL | 10 | ug/L | ACZ Laboratories |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 7 | 3 | 1 | ug/L | ACZ Laboratories |
| Antimony | BDL | BDL | 0.2 | ug/L | ACZ Laboratories |
| Barium | 44 | 44 | 3 | ug/L | ACZ Laboratories |
| Beryllium | BDL | BDL | 2 | ug/L | ACZ Laboratories |
| Boron | 10 | 10 | 10 | ug/L | ACZ Laboratories |
| Manganese | BDL | BDL | 5 | ug/L | ACZ Laboratories |
| Molybdenum | 1.3 | 1.3 | 0.1 | ug/L | ACZ Laboratories |
| Thallium | BDL | BDL | 0.05 | ug/L | ACZ Laboratories |
| Uranium | 1.64 | 1.65 | 0.05 | ug/L | ACZ Laboratories |
| Vanadium | 1.21 | 1.16 | 0.05 | ug/L | ACZ Laboratories |

Station: TRATT003

Matrix: surface water

Sample Date: 5/16/2001

Event: 1

Sample Type: FO

SAMPLE ID SW-TRATT003-101

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|-------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | 0.37 | 0.65 | 0.13 | ug/L | U of Idaho |
| Lead | 0.26 | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | BDL | | 0.5 | ug/L | U of Idaho |
| Nickel | BDL | 0.59 | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | 66 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 87 | 15 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 62 | 53 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 160 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 48 | 100 | 25 | ug/L | U of Idaho |
| Calcium | 55000 | 53000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | 18 | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 7900 | | 100 | ug/L | U of Idaho |
| Fluoride | 140 | | 100 | ug/L | U of Idaho |
| Gross Alpha Radiation | 3.8 +/- 2.9 | | 2.4 | pCi/L | ACZ Laboratories |
| Gross Beta Radiation | 1.8 +/- 2.8 | | 4.3 | pCi/L | ACZ Laboratories |
| Hardness | | 178 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 210 | 40 | 10 | ug/L | U of Idaho |
| Magnesium | 12000 | 11000 | 5 | ug/L | U of Idaho |
| Manganese | 62 | 49 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Potassium | 790 | 730 | 500 | ug/L | U of Idaho |
| Sodium | 6300 | 6100 | 2000 | ug/L | U of Idaho |
| Sulfate | 13000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 180 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 220 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 5 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 73 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | 6 | | 4 | mg/L | U of Idaho |
| Uranium | 0.48 | 0.51 | 0.1 | ug/L | U of Idaho |
| Vanadium | 1.3 | 1 | 0.25 | ug/L | U of Idaho |

Station: TRATT003

Matrix: surface water

Sample Date: 6/14/2001

Event: 2

Sample Type: FO

SAMPLE ID SW-TRATT003-102

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Nickel | BDL | 0.67 | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | 14 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 76 | 11 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 36 | 49 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 140 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 61 | 140 | 25 | ug/L | U of Idaho |
| Calcium | 45000 | 46000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | 27 | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 5700 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Hardness | | 160 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 120 | 18 | 10 | ug/L | U of Idaho |
| Magnesium | 12000 | 11000 | 5 | ug/L | U of Idaho |
| Manganese | 18 | 16 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Potassium | 690 | 680 | 500 | ug/L | U of Idaho |
| Sodium | 5800 | 5500 | 2000 | ug/L | U of Idaho |
| Sulfate | 9600 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 170 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 180 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 4 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 38 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 0.45 | 0.41 | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | 0.87 | 0.25 | ug/L | U of Idaho |

Station: TRATT003

Matrix: surface water

Sample Date: 9/19/2001

Event: 3

Sample Type: FO

SAMPLE ID SW-TRATT003-103

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|--------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | 1 | 0.5 | ug/L | U of Idaho |
| Copper | BDL | 3.5 | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | 0.0006 | | 0.0002 | ug/L | ACZ Laboratories |
| Nickel | 1.4 | 2 | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | 10 | 13 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 31 | 570 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 58 | 65 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 190 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 58 | 65 | 25 | ug/L | U of Idaho |
| Calcium | 53000 | 54000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 6700 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Hardness | | 192 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Magnesium | 13000 | 14000 | 5 | ug/L | U of Idaho |
| Manganese | 19 | 15 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Sulfate | 7000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 190 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 180 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 7 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 19 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 0.32 | 0.35 | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | BDL | 0.25 | ug/L | U of Idaho |

Station: USCTT041

Matrix: surface water

Sample Date: 7/24/2001

Event: 4

Sample Type: FO

| SAMPLE ID | | USCTT041 | | | | |
|------------------------|------------|------------|--------|-------|------------------|--|
| | UNF Result | FIL Result | MDL | Units | Lab | |
| Arsenic | BDL | BDL | 1 | ug/L | ACZ Laboratories | |
| Cadmium | BDL | BDL | 0.2 | ug/L | ACZ Laboratories | |
| Chromium | BDL | BDL | 0.2 | ug/L | ACZ Laboratories | |
| Copper | BDL | BDL | 1 | ug/L | ACZ Laboratories | |
| Lead | BDL | BDL | 0.2 | ug/L | ACZ Laboratories | |
| Mercury | 0.0005 | 0.0005 | 0.0002 | ug/L | ACZ Laboratories | |
| Nickel | 1 | 1 | 0.4 | ug/L | ACZ Laboratories | |
| Selenium | BDL | BDL | 1 | ug/L | ACZ Laboratories | |
| Silver | BDL | BDL | 0.1 | ug/L | ACZ Laboratories | |
| Zinc | 20 | 20 | 10 | ug/L | ACZ Laboratories | |
| | UNF Result | FIL Result | MDL | Units | Lab | |
| Aluminum | 99 | 99 | 1 | ug/L | ACZ Laboratories | |
| Antimony | BDL | BDL | 0.4 | ug/L | ACZ Laboratories | |
| Barium | 29 | 29 | 3 | ug/L | ACZ Laboratories | |
| Beryllium | BDL | BDL | 0.2 | ug/L | ACZ Laboratories | |
| Bicarbonate Alkalinity | 176 | 176 | 2 | mg/L | ACZ Laboratories | |
| Boron | 20 | 20 | 10 | ug/L | ACZ Laboratories | |
| Calcium | 52200 | 52200 | 200 | ug/L | ACZ Laboratories | |
| Carbonate Alkalinity | BDL | BDL | 2 | mg/L | ACZ Laboratories | |
| Hydroxide Alkalinity | BDL | BDL | 2 | mg/L | ACZ Laboratories | |
| Magnesium | 14000 | 14000 | 200 | ug/L | ACZ Laboratories | |
| Manganese | 18 | 18 | 5 | ug/L | ACZ Laboratories | |
| Molybdenum | BDL | BDL | 0.2 | ug/L | ACZ Laboratories | |
| Thallium | BDL | BDL | 0.1 | ug/L | ACZ Laboratories | |
| Total Alkalinity | 176000 | 176000 | 2000 | ug/L | ACZ Laboratories | |
| Total Organic Carbon | BDL | BDL | 1 | mg/L | ACZ Laboratories | |
| Uranium | 0.4 | 0.4 | 0.1 | ug/L | ACZ Laboratories | |
| Vanadium | BDL | BDL | 0.1 | ug/L | ACZ Laboratories | |

Station: WVCTT007

Matrix: surface water

Sample Date: 5/18/2001

Event: 1

Sample Type: FO

SAMPLE ID SW-WVCTT007-201

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|-------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | 1.6 | 0.5 | ug/L | U of Idaho |
| Copper | 0.15 | 0.47 | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | BDL | | 0.5 | ug/L | U of Idaho |
| Nickel | BDL | 1.7 | 0.13 | ug/L | U of Idaho |
| Selenium | BDL | BDL | 1 | ug/L | U of Idaho |
| Silver | 0.35 | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | 59 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 51 | 16 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 41 | 33 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 220 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 120 | 75 | 25 | ug/L | U of Idaho |
| Calcium | 60000 | 54000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 4100 | | 100 | ug/L | U of Idaho |
| Fluoride | 170 | | 100 | ug/L | U of Idaho |
| Gross Alpha Radiation | 9 +/- 4.1 | | 2.7 | pCi/L | ACZ Laboratories |
| Gross Beta Radiation | 7.6 +/- 3.4 | | 4.4 | pCi/L | ACZ Laboratories |
| Hardness | | 192 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 290 | 44 | 10 | ug/L | U of Idaho |
| Magnesium | 16000 | 14000 | 5 | ug/L | U of Idaho |
| Manganese | 210 | 200 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Potassium | 880 | 840 | 500 | ug/L | U of Idaho |
| Sodium | 6600 | 6800 | 2000 | ug/L | U of Idaho |
| Sulfate | 10000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 220 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 240 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 4 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 78 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 1.4 | 1.4 | 0.1 | ug/L | U of Idaho |
| Vanadium | 1.2 | 1.3 | 0.25 | ug/L | U of Idaho |

Station: WVCTT007

Matrix: surface water

Sample Date: 6/13/2001

Event: 2

Sample Type: FO

SAMPLE ID SW-WVCTT007-102

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | 1.1 | BDL | 0.13 | ug/L | U of Idaho |
| Lead | 1 | BDL | 0.25 | ug/L | U of Idaho |
| Nickel | 2.5 | 0.77 | 0.13 | ug/L | U of Idaho |
| Selenium | 1.3 | 2 | 1 | ug/L | U of Idaho |
| Silver | BDL | 2.6 | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | 14 | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 110 | 32 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 51 | 52 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 170 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 73 | 280 | 25 | ug/L | U of Idaho |
| Calcium | 48000 | 47000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | 9 | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 2700 | | 100 | ug/L | U of Idaho |
| Fluoride | 110 | | 100 | ug/L | U of Idaho |
| Hardness | | 171 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Iron | 170 | 12 | 10 | ug/L | U of Idaho |
| Magnesium | 13000 | 13000 | 5 | ug/L | U of Idaho |
| Manganese | 24 | 22 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | 190 | | 100 | ug/L | U of Idaho |
| Potassium | 650 | 670 | 500 | ug/L | U of Idaho |
| Sodium | 3600 | 4000 | 2000 | ug/L | U of Idaho |
| Sulfate | 12000 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 180 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 170 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 7 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 37 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 1 | 0.59 | 0.1 | ug/L | U of Idaho |
| Vanadium | 1.1 | 0.47 | 0.25 | ug/L | U of Idaho |

Station: WVCTT007

Matrix: surface water

Sample Date: 9/19/2001

Event: 3

Sample Type: FO

SAMPLE ID SW-WVCTT007-103

| | UNF Result | FIL Result | MDL | Units | Lab |
|------------------------|------------|------------|--------|------------|------------------|
| Arsenic | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Cadmium | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Chromium | BDL | BDL | 0.5 | ug/L | U of Idaho |
| Copper | BDL | BDL | 0.13 | ug/L | U of Idaho |
| Lead | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Mercury | 0.0008 | | 0.0002 | ug/L | ACZ Laboratories |
| Nickel | 1.9 | BDL | 0.13 | ug/L | U of Idaho |
| Selenium | 1.4 | 1.4 | 1 | ug/L | U of Idaho |
| Silver | BDL | BDL | 0.25 | ug/L | U of Idaho |
| Zinc | BDL | BDL | 10 | ug/L | U of Idaho |
| | UNF Result | FIL Result | MDL | Units | Lab |
| Aluminum | 50 | 22 | 1 | ug/L | U of Idaho |
| Antimony | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Barium | 46 | 50 | 10 | ug/L | U of Idaho |
| Beryllium | BDL | BDL | 5 | ug/L | U of Idaho |
| Bicarbonate Alkalinity | 160 | | 3 | mg CaCO3/L | U of Idaho |
| Boron | 71 | 180 | 25 | ug/L | U of Idaho |
| Calcium | 42000 | 43000 | 20 | ug/L | U of Idaho |
| Carbonate Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Chloride | 2000 | | 100 | ug/L | U of Idaho |
| Fluoride | BDL | | 100 | ug/L | U of Idaho |
| Hardness | | 165 | | mg CaCO3/L | U of Idaho |
| Hydroxide Alkalinity | BDL | | 3 | mg CaCO3/L | U of Idaho |
| Magnesium | 13000 | 14000 | 5 | ug/L | U of Idaho |
| Manganese | 17 | 13 | 2 | ug/L | U of Idaho |
| Molybdenum | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Nitrate-N+Nitrite-N | BDL | | 100 | ug/L | U of Idaho |
| Sulfate | 9700 | | 200 | ug/L | U of Idaho |
| Thallium | BDL | BDL | 2.5 | ug/L | U of Idaho |
| Total Alkalinity | 160 | | 3 | mg CaCO3/L | U of Idaho |
| Total Dissolved Solids | 160 | | 40 | mg/L | U of Idaho |
| Total Organic Carbon | 4 | | 1 | mg/L | ACZ Laboratories |
| Total Phosphorus | 36 | | 10 | ug/L | U of Idaho |
| Total Suspended Solids | BDL | | 4 | mg/L | U of Idaho |
| Uranium | 0.46 | 0.54 | 0.1 | ug/L | U of Idaho |
| Vanadium | BDL | BDL | 0.25 | ug/L | U of Idaho |

APPENDIX B
SEDIMENT LABORATORY RESULTS

Appendix B - Sediment Laboratory Results

Key to Abbreviations

Headers and Result

BDL - Below Detection Limit
MDL - Minimum Detection Limit

Units

% - percent
dS/m - deciSiemens/meter
mg/kg - milligrams per kilogram
ug/g - micrograms per gram
ug/kg - micrograms per kilogram

Sample Types

FO - Field Original
FD - Field Duplicate

Station: BFDTT008

Matrix: Sediment

Sample Date: 6/15/2001

Event: 2

Sample Type: FO

SAMPLE ID SD-BFDTT008-102

| | Result | MDL | Units | Lab |
|---------------------|--------|-------|-------|------------|
| Arsenic | 5.2 | 0.5 | ug/g | U of Idaho |
| Cadmium | 1 | 0.2 | ug/g | U of Idaho |
| Chromium | 16 | 0.18 | ug/g | U of Idaho |
| Copper | 6.4 | 0.28 | ug/g | U of Idaho |
| Lead | BDL | 1.5 | ug/g | U of Idaho |
| Mercury | 27 | 4.2 | ug/kg | U of Idaho |
| Nickel | 24 | 0.5 | ug/g | U of Idaho |
| Selenium | 2 | 0.04 | ug/g | U of Idaho |
| Silver | BDL | 0.2 | ug/g | U of Idaho |
| Zinc | 38 | 0.14 | ug/g | U of Idaho |
| | Result | MDL | Units | Lab |
| > 2 mm | 15 | | % | U of Idaho |
| Antimony | BDL | 1.6 | ug/g | U of Idaho |
| Barium | 87 | 0.18 | ug/g | U of Idaho |
| Beryllium | 0.51 | 0.08 | ug/g | U of Idaho |
| Boron | BDL | 2 | ug/g | U of Idaho |
| Clay | 1.6 | 0.1 | % | U of Idaho |
| Elect. Conductivity | 1.7 | 0.001 | dS/m | U of Idaho |
| Fluoride | 190 | 1 | ug/g | U of Idaho |
| Manganese | 360 | 0.1 | ug/g | U of Idaho |
| Molybdenum | BDL | 3.8 | ug/g | U of Idaho |
| Organic Carbon | 0.94 | 0.06 | % | U of Idaho |
| pH | 7.7 | | | U of Idaho |
| Sand | 80.2 | 0.1 | % | U of Idaho |
| Silt | 18.2 | 0.1 | % | U of Idaho |
| Sodium | 130 | 100 | ug/g | U of Idaho |
| Thallium | BDL | 2 | ug/g | U of Idaho |
| Uranium | 9.6 | 2 | ug/g | U of Idaho |
| Vanadium | 14 | 0.16 | ug/g | U of Idaho |

Station: BFNTT009

Matrix: Sediment

Sample Date: 6/15/2001

Event: 2

Sample Type: FO

SAMPLE ID SD-BFNTT009-102

| | Result | MDL | Units | Lab |
|----------|--------|------|-------|------------|
| Arsenic | 6.1 | 0.5 | ug/g | U of Idaho |
| Cadmium | 0.65 | 0.2 | ug/g | U of Idaho |
| Chromium | 42 | 0.18 | ug/g | U of Idaho |
| Copper | 4.2 | 0.28 | ug/g | U of Idaho |
| Lead | 1.6 | 1.5 | ug/g | U of Idaho |
| Mercury | 13 | 4.2 | ug/kg | U of Idaho |
| Nickel | 15 | 0.5 | ug/g | U of Idaho |
| Selenium | 1.6 | 0.04 | ug/g | U of Idaho |
| Silver | BDL | 0.2 | ug/g | U of Idaho |
| Zinc | 44 | 0.14 | ug/g | U of Idaho |

| | Result | MDL | Units | Lab |
|---------------------|--------|-------|-------|------------|
| > 2 mm | 24 | | % | U of Idaho |
| Antimony | BDL | 1.6 | ug/g | U of Idaho |
| Barium | 110 | 0.18 | ug/g | U of Idaho |
| Beryllium | 0.63 | 0.08 | ug/g | U of Idaho |
| Boron | BDL | 2 | ug/g | U of Idaho |
| Clay | 3.2 | 0.1 | % | U of Idaho |
| Elect. Conductivity | 1.2 | 0.001 | dS/m | U of Idaho |
| Fluoride | 390 | 1 | ug/g | U of Idaho |
| Manganese | 350 | 0.1 | ug/g | U of Idaho |
| Molybdenum | BDL | 3.8 | ug/g | U of Idaho |
| Organic Carbon | 1.1 | 0.06 | % | U of Idaho |
| pH | 7.6 | | | U of Idaho |
| Sand | 77.2 | 0.1 | % | U of Idaho |
| Silt | 19.6 | 0.1 | % | U of Idaho |
| Sodium | 150 | 100 | ug/g | U of Idaho |
| Thallium | 7.6 | 2 | ug/g | U of Idaho |
| Uranium | 4.8 | 2 | ug/g | U of Idaho |
| Vanadium | 26 | 0.16 | ug/g | U of Idaho |

Station: BFUTT015

Matrix: Sediment

Sample Date: 6/15/2001

Event: 2

Sample Type: FO

SAMPLE ID SD-BFUTT015-102

| | Result | MDL | Units | Lab |
|----------|--------|------|-------|------------|
| Arsenic | 2.8 | 0.5 | ug/g | U of Idaho |
| Cadmium | 0.69 | 0.2 | ug/g | U of Idaho |
| Chromium | 25 | 0.18 | ug/g | U of Idaho |
| Copper | 7 | 0.28 | ug/g | U of Idaho |
| Lead | BDL | 1.5 | ug/g | U of Idaho |
| Mercury | 12 | 4.2 | ug/kg | U of Idaho |
| Nickel | 18 | 0.5 | ug/g | U of Idaho |
| Selenium | 1.1 | 0.04 | ug/g | U of Idaho |
| Silver | BDL | 0.2 | ug/g | U of Idaho |
| Zinc | 35 | 0.14 | ug/g | U of Idaho |

| | Result | MDL | Units | Lab |
|---------------------|--------|-------|-------|------------|
| > 2 mm | 26 | | % | U of Idaho |
| Antimony | BDL | 1.6 | ug/g | U of Idaho |
| Barium | 80 | 0.18 | ug/g | U of Idaho |
| Beryllium | 0.64 | 0.08 | ug/g | U of Idaho |
| Boron | BDL | 2 | ug/g | U of Idaho |
| Clay | 1.6 | 0.1 | % | U of Idaho |
| Elect. Conductivity | 1.6 | 0.001 | dS/m | U of Idaho |
| Fluoride | 280 | 1 | ug/g | U of Idaho |
| Manganese | 220 | 0.1 | ug/g | U of Idaho |
| Molybdenum | BDL | 3.8 | ug/g | U of Idaho |
| Organic Carbon | 1.1 | 0.06 | % | U of Idaho |
| pH | 7.6 | | | U of Idaho |
| Sand | 70.2 | 0.1 | % | U of Idaho |
| Silt | 28.2 | 0.1 | % | U of Idaho |
| Sodium | BDL | 100 | ug/g | U of Idaho |
| Thallium | BDL | 2 | ug/g | U of Idaho |
| Uranium | 7.9 | 2 | ug/g | U of Idaho |
| Vanadium | 18 | 0.16 | ug/g | U of Idaho |

Station: CALTT004

Matrix: Sediment

Sample Date: 6/16/2001

Event: 2

Sample Type: FO

SAMPLE ID SD-CALTT004-102

| | Result | MDL | Units | Lab |
|----------|--------|------|-------|------------|
| Arsenic | 2 | 0.5 | ug/g | U of Idaho |
| Cadmium | 1.1 | 0.2 | ug/g | U of Idaho |
| Chromium | 21 | 0.18 | ug/g | U of Idaho |
| Copper | 8.5 | 0.28 | ug/g | U of Idaho |
| Lead | BDL | 1.5 | ug/g | U of Idaho |
| Mercury | 8.8 | 4.2 | ug/kg | U of Idaho |
| Nickel | 17 | 0.5 | ug/g | U of Idaho |
| Selenium | 0.52 | 0.04 | ug/g | U of Idaho |
| Silver | BDL | 0.2 | ug/g | U of Idaho |
| Zinc | 58 | 0.14 | ug/g | U of Idaho |

| | Result | MDL | Units | Lab |
|---------------------|--------|-------|-------|------------|
| > 2 mm | 17 | | % | U of Idaho |
| Antimony | BDL | 1.6 | ug/g | U of Idaho |
| Barium | 94 | 0.18 | ug/g | U of Idaho |
| Beryllium | 0.62 | 0.08 | ug/g | U of Idaho |
| Boron | BDL | 2 | ug/g | U of Idaho |
| Clay | 2.6 | 0.1 | % | U of Idaho |
| Elect. Conductivity | 1 | 0.001 | dS/m | U of Idaho |
| Fluoride | 230 | 1 | ug/g | U of Idaho |
| Manganese | 290 | 0.1 | ug/g | U of Idaho |
| Molybdenum | BDL | 3.8 | ug/g | U of Idaho |
| Organic Carbon | 1.8 | 0.06 | % | U of Idaho |
| pH | 7.6 | | | U of Idaho |
| Sand | 58.2 | 0.1 | % | U of Idaho |
| Silt | 39.2 | 0.1 | % | U of Idaho |
| Sodium | BDL | 100 | ug/g | U of Idaho |
| Thallium | BDL | 2 | ug/g | U of Idaho |
| Uranium | 3.8 | 2 | ug/g | U of Idaho |
| Vanadium | 20 | 0.16 | ug/g | U of Idaho |

Station: CCATT029

Matrix: Sediment

Sample Date: 6/14/2001

Event: 2

Sample Type: FO

SAMPLE ID SD-CCATT029-102

| | Result | MDL | Units | Lab |
|----------|--------|------|-------|------------|
| Arsenic | 5.7 | 0.5 | ug/g | U of Idaho |
| Cadmium | 0.7 | 0.2 | ug/g | U of Idaho |
| Chromium | 44 | 0.18 | ug/g | U of Idaho |
| Copper | 3.2 | 0.28 | ug/g | U of Idaho |
| Lead | BDL | 1.5 | ug/g | U of Idaho |
| Mercury | 11 | 4.2 | ug/kg | U of Idaho |
| Nickel | 17 | 0.5 | ug/g | U of Idaho |
| Selenium | 1.2 | 0.04 | ug/g | U of Idaho |
| Silver | BDL | 0.2 | ug/g | U of Idaho |
| Zinc | 57 | 0.14 | ug/g | U of Idaho |

| | Result | MDL | Units | Lab |
|---------------------|--------|-------|-------|------------|
| > 2 mm | 26 | | % | U of Idaho |
| Antimony | BDL | 1.6 | ug/g | U of Idaho |
| Barium | 93 | 0.18 | ug/g | U of Idaho |
| Beryllium | 0.52 | 0.08 | ug/g | U of Idaho |
| Boron | BDL | 2 | ug/g | U of Idaho |
| Clay | 1.2 | 0.1 | % | U of Idaho |
| Elect. Conductivity | 2.2 | 0.001 | dS/m | U of Idaho |
| Fluoride | 420 | 1 | ug/g | U of Idaho |
| Manganese | 320 | 0.1 | ug/g | U of Idaho |
| Molybdenum | BDL | 3.8 | ug/g | U of Idaho |
| Organic Carbon | 1.3 | 0.06 | % | U of Idaho |
| pH | 7.7 | | | U of Idaho |
| Sand | 74.2 | 0.1 | % | U of Idaho |
| Silt | 24.6 | 0.1 | % | U of Idaho |
| Sodium | 590 | 100 | ug/g | U of Idaho |
| Thallium | 4.3 | 2 | ug/g | U of Idaho |
| Uranium | 3.3 | 2 | ug/g | U of Idaho |
| Vanadium | 23 | 0.16 | ug/g | U of Idaho |

Station: DCMTT028

Matrix: Sediment

Sample Date: 9/18/2001

Event: 3

Sample Type: FO

SAMPLE ID SD-DCMTT028-103

| | Result | MDL | Units | Lab |
|----------|--------|------|-------|------------|
| Arsenic | 7.4 | 0.08 | ug/g | U of Idaho |
| Cadmium | 4.3 | 0.02 | ug/g | U of Idaho |
| Chromium | 74 | 0.08 | ug/g | U of Idaho |
| Copper | 16 | 0.7 | ug/g | U of Idaho |
| Lead | 12 | 0.04 | ug/g | U of Idaho |
| Mercury | 0.089 | 0.08 | ug/g | U of Idaho |
| Nickel | 35 | 0.02 | ug/g | U of Idaho |
| Selenium | 4.2 | 0.04 | ug/g | U of Idaho |
| Silver | 0.23 | 0.04 | ug/g | U of Idaho |
| Zinc | 230 | 0.54 | ug/g | U of Idaho |

| | Result | MDL | Units | Lab |
|---------------------|--------|-------|-------|------------|
| > 2 mm | 9 | | % | U of Idaho |
| Aluminum | 24000 | 2 | ug/g | U of Idaho |
| Antimony | BDL | 0.38 | ug/g | U of Idaho |
| Barium | 170 | 0.02 | ug/g | U of Idaho |
| Beryllium | 0.78 | 0.02 | ug/g | U of Idaho |
| Boron | BDL | 2 | ug/g | U of Idaho |
| Clay | 20.9 | 0.1 | % | U of Idaho |
| Elect. Conductivity | 0.81 | 0.001 | dS/m | U of Idaho |
| Manganese | 1200 | 2.2 | ug/g | U of Idaho |
| Organic Carbon | 4.3 | 0.06 | % | U of Idaho |
| pH | 7.9 | | | U of Idaho |
| Sand | 39 | 0.1 | % | U of Idaho |
| Silt | 40.1 | 0.1 | % | U of Idaho |
| Sodium | 190 | 100 | ug/g | U of Idaho |
| Thallium | BDL | 0.38 | ug/g | U of Idaho |
| Vanadium | 57 | 3.1 | ug/g | U of Idaho |

Station: DIATT018

Matrix: Sediment

Sample Date: 6/13/2001

Event: 2

Sample Type: FO

SAMPLE ID SD-DIATT018-102

| | Result | MDL | Units | Lab |
|----------|--------|------|-------|------------|
| Arsenic | 1.4 | 0.5 | ug/g | U of Idaho |
| Cadmium | 0.42 | 0.2 | ug/g | U of Idaho |
| Chromium | 50 | 0.18 | ug/g | U of Idaho |
| Copper | 15 | 0.28 | ug/g | U of Idaho |
| Lead | 14 | 1.5 | ug/g | U of Idaho |
| Mercury | 25 | 4.2 | ug/kg | U of Idaho |
| Nickel | 19 | 0.5 | ug/g | U of Idaho |
| Selenium | 1.3 | 0.04 | ug/g | U of Idaho |
| Silver | BDL | 0.2 | ug/g | U of Idaho |
| Zinc | 96 | 0.14 | ug/g | U of Idaho |

| | Result | MDL | Units | Lab |
|---------------------|--------|-------|-------|------------|
| > 2 mm | 13 | | % | U of Idaho |
| Antimony | BDL | 1.6 | ug/g | U of Idaho |
| Barium | 140 | 0.18 | ug/g | U of Idaho |
| Beryllium | 1.1 | 0.08 | ug/g | U of Idaho |
| Boron | 25 | 2 | ug/g | U of Idaho |
| Clay | 0.8 | 0.1 | % | U of Idaho |
| Elect. Conductivity | 1.4 | 0.001 | dS/m | U of Idaho |
| Fluoride | 190 | 1 | ug/g | U of Idaho |
| Manganese | 540 | 0.1 | ug/g | U of Idaho |
| Molybdenum | BDL | 3.8 | ug/g | U of Idaho |
| Organic Carbon | 2.9 | 0.06 | % | U of Idaho |
| pH | 7.1 | | | U of Idaho |
| Sand | 47.2 | 0.1 | % | U of Idaho |
| Silt | 52 | 0.1 | % | U of Idaho |
| Sodium | 170 | 100 | ug/g | U of Idaho |
| Thallium | BDL | 2 | ug/g | U of Idaho |
| Uranium | 4.8 | 2 | ug/g | U of Idaho |
| Vanadium | 48 | 0.16 | ug/g | U of Idaho |

Station: EMCNTT045

Matrix: Sediment

Sample Date: 7/26/2001

Event: 4

Sample Type: FO

SAMPLE ID SED-EMCNTT045

| | Result | MDL | Units | Lab |
|----------|---------------|------------|--------------|------------------|
| Arsenic | 7.7 | 0.5 | mg/kg | ACZ Laboratories |
| Cadmium | 11.9 | 0.1 | mg/kg | ACZ Laboratories |
| Chromium | 191 | 1 | mg/kg | ACZ Laboratories |
| Copper | 44 | 1 | mg/kg | ACZ Laboratories |
| Lead | 20 | 0.1 | mg/kg | ACZ Laboratories |
| Mercury | 0.227 | 0.005 | mg/kg | ACZ Laboratories |
| Nickel | 81 | 0.2 | mg/kg | ACZ Laboratories |
| Selenium | 188 | 5 | mg/kg | ACZ Laboratories |
| Silver | 2.04 | 0.05 | mg/kg | ACZ Laboratories |
| Zinc | 517 | 1 | mg/kg | ACZ Laboratories |

| | Result | MDL | Units | Lab |
|----------------|---------------|------------|--------------|------------------|
| Aluminum | 24900 | 20 | mg/kg | ACZ Laboratories |
| Antimony | BDL | 0.2 | mg/kg | ACZ Laboratories |
| Barium | 174 | 0.3 | mg/kg | ACZ Laboratories |
| Beryllium | 1 | 0.1 | mg/kg | ACZ Laboratories |
| Boron | 29 | 1 | mg/kg | ACZ Laboratories |
| Manganese | 874 | 3 | mg/kg | ACZ Laboratories |
| Molybdenum | 5 | 1 | mg/kg | ACZ Laboratories |
| Organic Carbon | 7.36 | 0.02 | % | ACZ Laboratories |
| pH | 7.1 | 0.1 | units | ACZ Laboratories |
| Thallium | 0.48 | 0.05 | mg/kg | ACZ Laboratories |
| Uranium | 4.04 | 0.05 | mg/kg | ACZ Laboratories |
| Vanadium | 133 | 0.5 | mg/kg | ACZ Laboratories |

Station: EMCTT017

Matrix: Sediment

Sample Date: 6/15/2001

Event: 2

Sample Type: FO

SAMPLE ID SD-EMCTT017-102

| | Result | MDL | Units | Lab |
|----------|--------|------|-------|------------|
| Arsenic | BDL | 0.5 | ug/g | U of Idaho |
| Cadmium | 5.4 | 0.2 | ug/g | U of Idaho |
| Chromium | 83 | 0.18 | ug/g | U of Idaho |
| Copper | 24 | 0.28 | ug/g | U of Idaho |
| Lead | 4.7 | 1.5 | ug/g | U of Idaho |
| Mercury | 11 | 4.2 | ug/kg | U of Idaho |
| Nickel | 54 | 0.5 | ug/g | U of Idaho |
| Selenium | 21 | 0.04 | ug/g | U of Idaho |
| Silver | BDL | 0.2 | ug/g | U of Idaho |
| Zinc | 210 | 0.14 | ug/g | U of Idaho |

| | Result | MDL | Units | Lab |
|---------------------|--------|-------|-------|------------|
| > 2 mm | 16 | | % | U of Idaho |
| Antimony | BDL | 1.6 | ug/g | U of Idaho |
| Barium | 130 | 0.18 | ug/g | U of Idaho |
| Beryllium | 1.3 | 0.08 | ug/g | U of Idaho |
| Boron | 12 | 2 | ug/g | U of Idaho |
| Clay | 0.6 | 0.1 | % | U of Idaho |
| Elect. Conductivity | 1 | 0.001 | dS/m | U of Idaho |
| Fluoride | 650 | 1 | ug/g | U of Idaho |
| Manganese | 1300 | 0.1 | ug/g | U of Idaho |
| Molybdenum | BDL | 3.8 | ug/g | U of Idaho |
| Organic Carbon | 2.9 | 0.06 | % | U of Idaho |
| pH | 7.3 | | | U of Idaho |
| Sand | 58.2 | 0.1 | % | U of Idaho |
| Silt | 41.2 | 0.1 | % | U of Idaho |
| Sodium | BDL | 100 | ug/g | U of Idaho |
| Thallium | BDL | 2 | ug/g | U of Idaho |
| Uranium | 16 | 2 | ug/g | U of Idaho |
| Vanadium | 94 | 0.16 | ug/g | U of Idaho |

Station: EMCTT043

Matrix: Sediment

Sample Date: 7/25/2001

Event: 4

Sample Type: FO

SAMPLE ID SED-EMCTT043

| | Result | MDL | Units | Lab |
|----------|---------------|------------|--------------|------------------|
| Arsenic | 5.1 | 0.3 | mg/kg | ACZ Laboratories |
| Cadmium | 6.54 | 0.05 | mg/kg | ACZ Laboratories |
| Chromium | 65 | 1 | mg/kg | ACZ Laboratories |
| Copper | 21 | 1 | mg/kg | ACZ Laboratories |
| Lead | 13.4 | 0.05 | mg/kg | ACZ Laboratories |
| Mercury | 0.052 | 0.005 | mg/kg | ACZ Laboratories |
| Nickel | 46 | 0.1 | mg/kg | ACZ Laboratories |
| Selenium | 15 | 0.5 | mg/kg | ACZ Laboratories |
| Silver | 0.47 | 0.03 | mg/kg | ACZ Laboratories |
| Zinc | 218 | 1 | mg/kg | ACZ Laboratories |

| | Result | MDL | Units | Lab |
|----------------|---------------|------------|--------------|------------------|
| Aluminum | 23600 | 20 | mg/kg | ACZ Laboratories |
| Antimony | BDL | 0.1 | mg/kg | ACZ Laboratories |
| Barium | 137 | 0.3 | mg/kg | ACZ Laboratories |
| Beryllium | 1.2 | 0.05 | mg/kg | ACZ Laboratories |
| Boron | 26 | 1 | mg/kg | ACZ Laboratories |
| Manganese | 1580 | 3 | mg/kg | ACZ Laboratories |
| Molybdenum | 2 | 1 | mg/kg | ACZ Laboratories |
| Organic Carbon | 0.94 | 0.02 | % | ACZ Laboratories |
| pH | 7.7 | 0.1 | units | ACZ Laboratories |
| Thallium | 0.34 | 0.03 | mg/kg | ACZ Laboratories |
| Uranium | 4.77 | 0.03 | mg/kg | ACZ Laboratories |
| Vanadium | 73.6 | 0.5 | mg/kg | ACZ Laboratories |

Station: GHCTT006

Matrix: Sediment

Sample Date: 6/16/2001

Event: 2

Sample Type: FO

SAMPLE ID SD-GHCTT006-102

| | Result | MDL | Units | Lab |
|----------|--------|------|-------|------------|
| Arsenic | 16 | 0.5 | ug/g | U of Idaho |
| Cadmium | 5.8 | 0.2 | ug/g | U of Idaho |
| Chromium | 130 | 0.18 | ug/g | U of Idaho |
| Copper | 14 | 0.28 | ug/g | U of Idaho |
| Lead | 8.5 | 1.5 | ug/g | U of Idaho |
| Mercury | 10 | 4.2 | ug/kg | U of Idaho |
| Nickel | 99 | 0.5 | ug/g | U of Idaho |
| Selenium | 58 | 0.04 | ug/g | U of Idaho |
| Silver | BDL | 0.2 | ug/g | U of Idaho |
| Zinc | 400 | 0.14 | ug/g | U of Idaho |

| | Result | MDL | Units | Lab |
|---------------------|--------|-------|-------|------------|
| > 2 mm | 24 | | % | U of Idaho |
| Antimony | BDL | 1.6 | ug/g | U of Idaho |
| Barium | 260 | 0.18 | ug/g | U of Idaho |
| Beryllium | 0.9 | 0.08 | ug/g | U of Idaho |
| Boron | 18 | 2 | ug/g | U of Idaho |
| Clay | 20.1 | 0.1 | % | U of Idaho |
| Elect. Conductivity | 1.8 | 0.001 | dS/m | U of Idaho |
| Fluoride | 56 | 1 | ug/g | U of Idaho |
| Manganese | 3200 | 0.1 | ug/g | U of Idaho |
| Molybdenum | BDL | 3.8 | ug/g | U of Idaho |
| Organic Carbon | 7.4 | 0.06 | % | U of Idaho |
| pH | 7.4 | | | U of Idaho |
| Sand | 35 | 0.1 | % | U of Idaho |
| Silt | 44.9 | 0.1 | % | U of Idaho |
| Sodium | 220 | 100 | ug/g | U of Idaho |
| Thallium | BDL | 2 | ug/g | U of Idaho |
| Uranium | 9.5 | 2 | ug/g | U of Idaho |
| Vanadium | 76 | 0.16 | ug/g | U of Idaho |

Station: GTCTT032

Matrix: Sediment

Sample Date: 6/13/2001

Event: 2

Sample Type: FO

SAMPLE ID SD-GTCTT032-102

| | Result | MDL | Units | Lab |
|----------|--------|------|-------|------------|
| Arsenic | 10 | 0.5 | ug/g | U of Idaho |
| Cadmium | 8.3 | 0.2 | ug/g | U of Idaho |
| Chromium | 77 | 0.18 | ug/g | U of Idaho |
| Copper | 14 | 0.28 | ug/g | U of Idaho |
| Lead | BDL | 1.5 | ug/g | U of Idaho |
| Mercury | 54 | 4.2 | ug/kg | U of Idaho |
| Nickel | 26 | 0.5 | ug/g | U of Idaho |
| Selenium | 4.6 | 0.04 | ug/g | U of Idaho |
| Silver | BDL | 0.2 | ug/g | U of Idaho |
| Zinc | 150 | 0.14 | ug/g | U of Idaho |

| | Result | MDL | Units | Lab |
|---------------------|--------|-------|-------|------------|
| > 2 mm | 26 | | % | U of Idaho |
| Antimony | BDL | 1.6 | ug/g | U of Idaho |
| Barium | 75 | 0.18 | ug/g | U of Idaho |
| Beryllium | 0.78 | 0.08 | ug/g | U of Idaho |
| Boron | BDL | 2 | ug/g | U of Idaho |
| Clay | 1.2 | 0.1 | % | U of Idaho |
| Elect. Conductivity | 1.2 | 0.001 | dS/m | U of Idaho |
| Fluoride | 400 | 1 | ug/g | U of Idaho |
| Manganese | 170 | 0.1 | ug/g | U of Idaho |
| Molybdenum | BDL | 3.8 | ug/g | U of Idaho |
| Organic Carbon | 2 | 0.06 | % | U of Idaho |
| pH | 7.6 | | | U of Idaho |
| Sand | 80.2 | 0.1 | % | U of Idaho |
| Silt | 18.6 | 0.1 | % | U of Idaho |
| Sodium | 280 | 100 | ug/g | U of Idaho |
| Thallium | 24 | 2 | ug/g | U of Idaho |
| Uranium | 20 | 2 | ug/g | U of Idaho |
| Vanadium | 72 | 0.16 | ug/g | U of Idaho |

Station: KCTT042

Matrix: Sediment

Sample Date: 7/25/2001

Event: 4

Sample Type: FO

| SAMPLE ID | SED-KCTT042 | | | | |
|----------------|-------------|--------|-------|-------|------------------|
| | | Result | MDL | Units | Lab |
| Arsenic | | 3.7 | 0.1 | mg/kg | ACZ Laboratories |
| Cadmium | | 0.58 | 0.02 | mg/kg | ACZ Laboratories |
| Chromium | | 22 | 1 | mg/kg | ACZ Laboratories |
| Copper | | 13 | 1 | mg/kg | ACZ Laboratories |
| Lead | | 13.1 | 0.02 | mg/kg | ACZ Laboratories |
| Mercury | | 0.032 | 0.005 | mg/kg | ACZ Laboratories |
| Nickel | | 19.2 | 0.04 | mg/kg | ACZ Laboratories |
| Selenium | | 1.1 | 0.1 | mg/kg | ACZ Laboratories |
| Silver | | 0.04 | 0.01 | mg/kg | ACZ Laboratories |
| Zinc | | 84 | 1 | mg/kg | ACZ Laboratories |
| | | Result | MDL | Units | Lab |
| Aluminum | | 16200 | 20 | mg/kg | ACZ Laboratories |
| Antimony | | BDL | 0.04 | mg/kg | ACZ Laboratories |
| Barium | | 137 | 0.3 | mg/kg | ACZ Laboratories |
| Beryllium | | 0.8 | 0.02 | mg/kg | ACZ Laboratories |
| Boron | | 12 | 1 | mg/kg | ACZ Laboratories |
| Manganese | | 954 | 3 | mg/kg | ACZ Laboratories |
| Molybdenum | | BDL | 1 | mg/kg | ACZ Laboratories |
| Organic Carbon | | 4.12 | 0.02 | % | ACZ Laboratories |
| pH | | 7.5 | 0.1 | units | ACZ Laboratories |
| Thallium | | 0.17 | 0.01 | mg/kg | ACZ Laboratories |
| Uranium | | 0.59 | 0.01 | mg/kg | ACZ Laboratories |
| Vanadium | | 22.3 | 0.5 | mg/kg | ACZ Laboratories |

Station: LSCTT040

Matrix: Sediment

Sample Date: 7/24/2001

Event: 4

Sample Type: FO

SAMPLE ID SED-LSCTT040

| | Result | MDL | Units | Lab |
|----------|---------------|------------|--------------|------------------|
| Arsenic | 1.6 | 0.1 | mg/kg | ACZ Laboratories |
| Cadmium | 1.77 | 0.02 | mg/kg | ACZ Laboratories |
| Chromium | 27 | 1 | mg/kg | ACZ Laboratories |
| Copper | 7 | 1 | mg/kg | ACZ Laboratories |
| Lead | 6.24 | 0.02 | mg/kg | ACZ Laboratories |
| Mercury | 0.027 | 0.005 | mg/kg | ACZ Laboratories |
| Nickel | 13.5 | 0.04 | mg/kg | ACZ Laboratories |
| Selenium | 3.4 | 0.1 | mg/kg | ACZ Laboratories |
| Silver | 0.11 | 0.01 | mg/kg | ACZ Laboratories |
| Zinc | 76 | 1 | mg/kg | ACZ Laboratories |

| | Result | MDL | Units | Lab |
|----------------|---------------|------------|--------------|------------------|
| Aluminum | 11400 | 20 | mg/kg | ACZ Laboratories |
| Antimony | BDL | 0.04 | mg/kg | ACZ Laboratories |
| Barium | 95.6 | 0.3 | mg/kg | ACZ Laboratories |
| Beryllium | 0.5 | 0.02 | mg/kg | ACZ Laboratories |
| Boron | 15 | 1 | mg/kg | ACZ Laboratories |
| Manganese | 564 | 3 | mg/kg | ACZ Laboratories |
| Molybdenum | BDL | 1 | mg/kg | ACZ Laboratories |
| Organic Carbon | 1.55 | 0.02 | % | ACZ Laboratories |
| pH | 7.6 | 0.1 | units | ACZ Laboratories |
| Thallium | 0.22 | 0.01 | mg/kg | ACZ Laboratories |
| Uranium | 3.66 | 0.01 | mg/kg | ACZ Laboratories |
| Vanadium | 26.8 | 0.5 | mg/kg | ACZ Laboratories |

Station: MCATT030

Matrix: Sediment

Sample Date: 6/13/2001

Event: 2

Sample Type: FO

SAMPLE ID SD-MCATT030-102

| | Result | MDL | Units | Lab |
|----------|--------|------|-------|------------|
| Arsenic | 1.8 | 0.5 | ug/g | U of Idaho |
| Cadmium | BDL | 0.2 | ug/g | U of Idaho |
| Chromium | 11 | 0.18 | ug/g | U of Idaho |
| Copper | 4.8 | 0.28 | ug/g | U of Idaho |
| Lead | BDL | 1.5 | ug/g | U of Idaho |
| Mercury | 8.4 | 4.2 | ug/kg | U of Idaho |
| Nickel | 6.4 | 0.5 | ug/g | U of Idaho |
| Selenium | 0.57 | 0.04 | ug/g | U of Idaho |
| Silver | BDL | 0.2 | ug/g | U of Idaho |
| Zinc | 38 | 0.14 | ug/g | U of Idaho |

| | Result | MDL | Units | Lab |
|---------------------|--------|-------|-------|------------|
| > 2 mm | 12 | | % | U of Idaho |
| Antimony | BDL | 1.6 | ug/g | U of Idaho |
| Barium | 80 | 0.18 | ug/g | U of Idaho |
| Beryllium | 0.6 | 0.08 | ug/g | U of Idaho |
| Boron | 21 | 2 | ug/g | U of Idaho |
| Clay | 1.2 | 0.1 | % | U of Idaho |
| Elect. Conductivity | 1.1 | 0.001 | dS/m | U of Idaho |
| Fluoride | 130 | 1 | ug/g | U of Idaho |
| Manganese | 270 | 0.1 | ug/g | U of Idaho |
| Molybdenum | BDL | 3.8 | ug/g | U of Idaho |
| Organic Carbon | 1.2 | 0.06 | % | U of Idaho |
| pH | 7.6 | | | U of Idaho |
| Sand | 71.2 | 0.1 | % | U of Idaho |
| Silt | 27.6 | 0.1 | % | U of Idaho |
| Sodium | 140 | 100 | ug/g | U of Idaho |
| Thallium | 4.5 | 2 | ug/g | U of Idaho |
| Uranium | 2.8 | 2 | ug/g | U of Idaho |
| Vanadium | 14 | 0.16 | ug/g | U of Idaho |

Station: MCBTT031

Matrix: Sediment

Sample Date: 6/13/2001

Event: 2

Sample Type: FO

SAMPLE ID SD-MCBTT031-102

| | Result | MDL | Units | Lab |
|----------|--------|------|-------|------------|
| Arsenic | 2.4 | 0.5 | ug/g | U of Idaho |
| Cadmium | 4.5 | 0.2 | ug/g | U of Idaho |
| Chromium | 25 | 0.18 | ug/g | U of Idaho |
| Copper | 7 | 0.28 | ug/g | U of Idaho |
| Lead | BDL | 1.5 | ug/g | U of Idaho |
| Mercury | 19 | 4.2 | ug/kg | U of Idaho |
| Nickel | 11 | 0.5 | ug/g | U of Idaho |
| Selenium | 1.6 | 0.04 | ug/g | U of Idaho |
| Silver | BDL | 0.2 | ug/g | U of Idaho |
| Zinc | 92 | 0.14 | ug/g | U of Idaho |

| | Result | MDL | Units | Lab |
|---------------------|--------|-------|-------|------------|
| > 2 mm | 19 | | % | U of Idaho |
| Antimony | BDL | 1.6 | ug/g | U of Idaho |
| Barium | 71 | 0.18 | ug/g | U of Idaho |
| Beryllium | 0.66 | 0.08 | ug/g | U of Idaho |
| Boron | 3 | 2 | ug/g | U of Idaho |
| Clay | 3.2 | 0.1 | % | U of Idaho |
| Elect. Conductivity | 1.3 | 0.001 | dS/m | U of Idaho |
| Fluoride | 340 | 1 | ug/g | U of Idaho |
| Manganese | 230 | 0.1 | ug/g | U of Idaho |
| Molybdenum | BDL | 3.8 | ug/g | U of Idaho |
| Organic Carbon | 1 | 0.06 | % | U of Idaho |
| pH | 7.7 | | | U of Idaho |
| Sand | 69.2 | 0.1 | % | U of Idaho |
| Silt | 27.6 | 0.1 | % | U of Idaho |
| Sodium | 230 | 100 | ug/g | U of Idaho |
| Thallium | 6.7 | 2 | ug/g | U of Idaho |
| Uranium | 14 | 2 | ug/g | U of Idaho |
| Vanadium | 33 | 0.16 | ug/g | U of Idaho |

Station: MCBTT031

Matrix: Sediment

Sample Date: 6/13/2001

Event: 2

Sample Type: FD

SAMPLE ID SD-MCBTT031-202

| | Result | MDL | Units | Lab |
|----------|--------|------|-------|------------|
| Arsenic | 11 | 0.5 | ug/g | U of Idaho |
| Cadmium | 3.4 | 0.2 | ug/g | U of Idaho |
| Chromium | 36 | 0.18 | ug/g | U of Idaho |
| Copper | 7.7 | 0.28 | ug/g | U of Idaho |
| Lead | BDL | 1.5 | ug/g | U of Idaho |
| Mercury | 16 | 4.2 | ug/kg | U of Idaho |
| Nickel | 13 | 0.5 | ug/g | U of Idaho |
| Selenium | 1.7 | 0.04 | ug/g | U of Idaho |
| Silver | BDL | 0.2 | ug/g | U of Idaho |
| Zinc | 95 | 0.14 | ug/g | U of Idaho |

| | Result | MDL | Units | Lab |
|---------------------|--------|-------|-------|------------|
| > 2 mm | 16 | | % | U of Idaho |
| Antimony | BDL | 1.6 | ug/g | U of Idaho |
| Barium | 87 | 0.18 | ug/g | U of Idaho |
| Beryllium | 0.74 | 0.08 | ug/g | U of Idaho |
| Boron | BDL | 2 | ug/g | U of Idaho |
| Clay | 3.2 | 0.1 | % | U of Idaho |
| Elect. Conductivity | 1.3 | 0.001 | dS/m | U of Idaho |
| Fluoride | 630 | 1 | ug/g | U of Idaho |
| Manganese | 270 | 0.1 | ug/g | U of Idaho |
| Molybdenum | BDL | 3.8 | ug/g | U of Idaho |
| Organic Carbon | 1.3 | 0.06 | % | U of Idaho |
| pH | 7.7 | | | U of Idaho |
| Sand | 65.2 | 0.1 | % | U of Idaho |
| Silt | 31.6 | 0.1 | % | U of Idaho |
| Sodium | 170 | 100 | ug/g | U of Idaho |
| Thallium | 18 | 2 | ug/g | U of Idaho |
| Uranium | 9.3 | 2 | ug/g | U of Idaho |
| Vanadium | 49 | 0.16 | ug/g | U of Idaho |

Station: MCTT044

Matrix: Sediment

Sample Date: 7/25/2001

Event: 4

Sample Type: FO

SAMPLE ID SED-MCTT044

| | Result | MDL | Units | Lab |
|----------------|---------------|------------|--------------|------------------|
| Arsenic | 3 | 1 | mg/kg | ACZ Laboratories |
| Cadmium | 14 | 0.2 | mg/kg | ACZ Laboratories |
| Chromium | 47 | 1 | mg/kg | ACZ Laboratories |
| Copper | 19 | 1 | mg/kg | ACZ Laboratories |
| Lead | 12.4 | 0.2 | mg/kg | ACZ Laboratories |
| Mercury | 0.03 | 0.005 | mg/kg | ACZ Laboratories |
| Nickel | 164 | 0.4 | mg/kg | ACZ Laboratories |
| Selenium | 29 | 2 | mg/kg | ACZ Laboratories |
| Silver | 0.2 | 0.1 | mg/kg | ACZ Laboratories |
| Zinc | 866 | 1 | mg/kg | ACZ Laboratories |
| | Result | MDL | Units | Lab |
| Aluminum | 25500 | 20 | mg/kg | ACZ Laboratories |
| Antimony | BDL | 0.4 | mg/kg | ACZ Laboratories |
| Barium | 108 | 0.3 | mg/kg | ACZ Laboratories |
| Beryllium | 1 | 0.2 | mg/kg | ACZ Laboratories |
| Boron | 26 | 1 | mg/kg | ACZ Laboratories |
| Manganese | 1640 | 3 | mg/kg | ACZ Laboratories |
| Molybdenum | 2 | 1 | mg/kg | ACZ Laboratories |
| Organic Carbon | 1.99 | 0.02 | % | ACZ Laboratories |
| pH | 7.8 | 0.1 | units | ACZ Laboratories |
| Thallium | 0.2 | 0.1 | mg/kg | ACZ Laboratories |
| Uranium | 3.6 | 0.1 | mg/kg | ACZ Laboratories |
| Vanadium | 55.7 | 0.5 | mg/kg | ACZ Laboratories |

Station: NNATT013

Matrix: Sediment

Sample Date: 6/15/2001

Event: 2

Sample Type: FO

SAMPLE ID SD-NNATT013-102

| | Result | MDL | Units | Lab |
|----------|--------|------|-------|------------|
| Arsenic | 6.6 | 0.5 | ug/g | U of Idaho |
| Cadmium | 5.1 | 0.2 | ug/g | U of Idaho |
| Chromium | 100 | 0.18 | ug/g | U of Idaho |
| Copper | 25 | 0.28 | ug/g | U of Idaho |
| Lead | 13 | 1.5 | ug/g | U of Idaho |
| Mercury | 12 | 4.2 | ug/kg | U of Idaho |
| Nickel | 44 | 0.5 | ug/g | U of Idaho |
| Selenium | 2.6 | 0.04 | ug/g | U of Idaho |
| Silver | BDL | 0.2 | ug/g | U of Idaho |
| Zinc | 210 | 0.14 | ug/g | U of Idaho |

| | Result | MDL | Units | Lab |
|---------------------|--------|-------|-------|------------|
| > 2 mm | 24 | | % | U of Idaho |
| Antimony | 2.3 | 1.6 | ug/g | U of Idaho |
| Barium | 230 | 0.18 | ug/g | U of Idaho |
| Beryllium | 1.6 | 0.08 | ug/g | U of Idaho |
| Boron | 13 | 2 | ug/g | U of Idaho |
| Clay | 37.9 | 0.1 | % | U of Idaho |
| Elect. Conductivity | 1.6 | 0.001 | dS/m | U of Idaho |
| Fluoride | 220 | 1 | ug/g | U of Idaho |
| Manganese | 630 | 0.1 | ug/g | U of Idaho |
| Molybdenum | 4 | 3.8 | ug/g | U of Idaho |
| Organic Carbon | 4.6 | 0.06 | % | U of Idaho |
| pH | 7 | | | U of Idaho |
| Sand | 8 | 0.1 | % | U of Idaho |
| Silt | 54.1 | 0.1 | % | U of Idaho |
| Sodium | BDL | 100 | ug/g | U of Idaho |
| Thallium | BDL | 2 | ug/g | U of Idaho |
| Uranium | 12 | 2 | ug/g | U of Idaho |
| Vanadium | 72 | 0.16 | ug/g | U of Idaho |

Station: NNBTT012

Matrix: Sediment

Sample Date: 9/21/2001

Event: 3

Sample Type: FO

SAMPLE ID SD-NNBTT012-103

| | Result | MDL | Units | Lab |
|----------|--------|------|-------|------------|
| Arsenic | 9.9 | 0.08 | ug/g | U of Idaho |
| Cadmium | 8.4 | 0.02 | ug/g | U of Idaho |
| Chromium | 110 | 0.08 | ug/g | U of Idaho |
| Copper | 28 | 0.7 | ug/g | U of Idaho |
| Lead | 20 | 0.04 | ug/g | U of Idaho |
| Mercury | 0.12 | 0.08 | ug/g | U of Idaho |
| Nickel | 58 | 0.02 | ug/g | U of Idaho |
| Selenium | 2.6 | 0.04 | ug/g | U of Idaho |
| Silver | 0.27 | 0.04 | ug/g | U of Idaho |
| Zinc | 330 | 0.54 | ug/g | U of Idaho |

| | Result | MDL | Units | Lab |
|---------------------|--------|-------|-------|------------|
| > 2 mm | 2 | | % | U of Idaho |
| Aluminum | 41000 | 2 | ug/g | U of Idaho |
| Antimony | BDL | 0.38 | ug/g | U of Idaho |
| Barium | 250 | 0.02 | ug/g | U of Idaho |
| Beryllium | 1.4 | 0.02 | ug/g | U of Idaho |
| Boron | BDL | 2 | ug/g | U of Idaho |
| Clay | 30.9 | 0.1 | % | U of Idaho |
| Elect. Conductivity | 0.51 | 0.001 | dS/m | U of Idaho |
| Manganese | 2600 | 2.2 | ug/g | U of Idaho |
| Organic Carbon | 3.2 | 0.06 | % | U of Idaho |
| pH | 7.3 | | | U of Idaho |
| Sand | 29.6 | 0.1 | % | U of Idaho |
| Silt | 39.5 | 0.1 | % | U of Idaho |
| Sodium | 130 | 100 | ug/g | U of Idaho |
| Thallium | 0.58 | 0.38 | ug/g | U of Idaho |
| Vanadium | 92 | 3.1 | ug/g | U of Idaho |

Station: SCAETT047

Matrix: Sediment

Sample Date: 7/26/2001

Event: 4

Sample Type: FO

SAMPLE ID SED-SCAETT047-01

| | Result | MDL | Units | Lab |
|----------|---------------|------------|--------------|------------------|
| Arsenic | 1.1 | 0.1 | mg/kg | ACZ Laboratories |
| Cadmium | 0.72 | 0.02 | mg/kg | ACZ Laboratories |
| Chromium | 27 | 1 | mg/kg | ACZ Laboratories |
| Copper | 6 | 1 | mg/kg | ACZ Laboratories |
| Lead | 5.62 | 0.02 | mg/kg | ACZ Laboratories |
| Mercury | 0.032 | 0.005 | mg/kg | ACZ Laboratories |
| Nickel | 8.16 | 0.04 | mg/kg | ACZ Laboratories |
| Selenium | 2 | 0.1 | mg/kg | ACZ Laboratories |
| Silver | 0.05 | 0.01 | mg/kg | ACZ Laboratories |
| Zinc | 40 | 1 | mg/kg | ACZ Laboratories |

| | Result | MDL | Units | Lab |
|----------------|---------------|------------|--------------|------------------|
| Aluminum | 9500 | 3 | mg/kg | ACZ Laboratories |
| Antimony | BDL | 0.04 | mg/kg | ACZ Laboratories |
| Barium | 82.3 | 0.3 | mg/kg | ACZ Laboratories |
| Beryllium | 0.39 | 0.02 | mg/kg | ACZ Laboratories |
| Boron | 13 | 1 | mg/kg | ACZ Laboratories |
| Manganese | 67 | 0.6 | mg/kg | ACZ Laboratories |
| Molybdenum | BDL | 1 | mg/kg | ACZ Laboratories |
| Organic Carbon | 5.26 | 0.02 | % | ACZ Laboratories |
| pH | 7 | 0.1 | units | ACZ Laboratories |
| Thallium | 0.07 | 0.01 | mg/kg | ACZ Laboratories |
| Uranium | 0.98 | 0.01 | mg/kg | ACZ Laboratories |
| Vanadium | 17.2 | 0.6 | mg/kg | ACZ Laboratories |

Station: SCAETT047

Matrix: Sediment

Sample Date: 7/26/2001

Event: 4

Sample Type: FD

SAMPLE ID SED-SCAETT047-02

| | Result | MDL | Units | Lab |
|----------|---------------|------------|--------------|------------------|
| Arsenic | 1.3 | 0.1 | mg/kg | ACZ Laboratories |
| Cadmium | 0.85 | 0.02 | mg/kg | ACZ Laboratories |
| Chromium | 32 | 1 | mg/kg | ACZ Laboratories |
| Copper | 7 | 1 | mg/kg | ACZ Laboratories |
| Lead | 6.47 | 0.02 | mg/kg | ACZ Laboratories |
| Mercury | 0.047 | 0.005 | mg/kg | ACZ Laboratories |
| Nickel | 8.67 | 0.04 | mg/kg | ACZ Laboratories |
| Selenium | 1.9 | 0.1 | mg/kg | ACZ Laboratories |
| Silver | 0.08 | 0.01 | mg/kg | ACZ Laboratories |
| Zinc | 42 | 1 | mg/kg | ACZ Laboratories |

| | Result | MDL | Units | Lab |
|----------------|---------------|------------|--------------|------------------|
| Aluminum | 9660 | 3 | mg/kg | ACZ Laboratories |
| Antimony | BDL | 0.04 | mg/kg | ACZ Laboratories |
| Barium | 87.1 | 0.3 | mg/kg | ACZ Laboratories |
| Beryllium | 0.46 | 0.02 | mg/kg | ACZ Laboratories |
| Boron | 12 | 1 | mg/kg | ACZ Laboratories |
| Manganese | 64.9 | 0.5 | mg/kg | ACZ Laboratories |
| Molybdenum | 1 | 1 | mg/kg | ACZ Laboratories |
| Organic Carbon | 7.24 | 0.02 | % | ACZ Laboratories |
| pH | 6.9 | 0.1 | units | ACZ Laboratories |
| Thallium | 0.09 | 0.01 | mg/kg | ACZ Laboratories |
| Uranium | 1.73 | 0.01 | mg/kg | ACZ Laboratories |
| Vanadium | 19.1 | 0.5 | mg/kg | ACZ Laboratories |

Station: SCATT024

Matrix: Sediment

Sample Date: 6/14/2001

Event: 2

Sample Type: FO

SAMPLE ID SD-SCATT024-102

| | Result | MDL | Units | Lab |
|----------|--------|------|-------|------------|
| Arsenic | 12 | 0.5 | ug/g | U of Idaho |
| Cadmium | BDL | 0.2 | ug/g | U of Idaho |
| Chromium | 43 | 0.18 | ug/g | U of Idaho |
| Copper | 13 | 0.28 | ug/g | U of Idaho |
| Lead | 6.7 | 1.5 | ug/g | U of Idaho |
| Mercury | 13 | 4.2 | ug/kg | U of Idaho |
| Nickel | 22 | 0.5 | ug/g | U of Idaho |
| Selenium | 1 | 0.04 | ug/g | U of Idaho |
| Silver | BDL | 0.2 | ug/g | U of Idaho |
| Zinc | 77 | 0.14 | ug/g | U of Idaho |

| | Result | MDL | Units | Lab |
|---------------------|--------|-------|-------|------------|
| > 2 mm | 35 | | % | U of Idaho |
| Antimony | BDL | 1.6 | ug/g | U of Idaho |
| Barium | 160 | 0.18 | ug/g | U of Idaho |
| Beryllium | 1.2 | 0.08 | ug/g | U of Idaho |
| Boron | 14 | 2 | ug/g | U of Idaho |
| Clay | 1.2 | 0.1 | % | U of Idaho |
| Elect. Conductivity | 1.4 | 0.001 | dS/m | U of Idaho |
| Fluoride | 250 | 1 | ug/g | U of Idaho |
| Manganese | 1500 | 0.1 | ug/g | U of Idaho |
| Molybdenum | BDL | 3.8 | ug/g | U of Idaho |
| Organic Carbon | 2.1 | 0.06 | % | U of Idaho |
| pH | 7.7 | | | U of Idaho |
| Sand | 73.2 | 0.1 | % | U of Idaho |
| Silt | 25.6 | 0.1 | % | U of Idaho |
| Sodium | 160 | 100 | ug/g | U of Idaho |
| Thallium | 3.7 | 2 | ug/g | U of Idaho |
| Uranium | 9 | 2 | ug/g | U of Idaho |
| Vanadium | 47 | 0.16 | ug/g | U of Idaho |

Station: SCBETT046

Matrix: Sediment

Sample Date: 7/26/2001

Event: 4

Sample Type: FO

SAMPLE ID SED-SCBETT046

| | Result | MDL | Units | Lab |
|----------|---------------|------------|--------------|------------------|
| Arsenic | 2.5 | 0.1 | mg/kg | ACZ Laboratories |
| Cadmium | 1.23 | 0.02 | mg/kg | ACZ Laboratories |
| Chromium | 37 | 1 | mg/kg | ACZ Laboratories |
| Copper | 11 | 1 | mg/kg | ACZ Laboratories |
| Lead | 8.66 | 0.02 | mg/kg | ACZ Laboratories |
| Mercury | 0.052 | 0.005 | mg/kg | ACZ Laboratories |
| Nickel | 15.4 | 0.04 | mg/kg | ACZ Laboratories |
| Selenium | 1.9 | 0.1 | mg/kg | ACZ Laboratories |
| Silver | 0.1 | 0.01 | mg/kg | ACZ Laboratories |
| Zinc | 70 | 1 | mg/kg | ACZ Laboratories |

| | Result | MDL | Units | Lab |
|----------------|---------------|------------|--------------|------------------|
| Aluminum | 20500 | 20 | mg/kg | ACZ Laboratories |
| Antimony | BDL | 0.04 | mg/kg | ACZ Laboratories |
| Barium | 163 | 0.3 | mg/kg | ACZ Laboratories |
| Beryllium | 0.74 | 0.02 | mg/kg | ACZ Laboratories |
| Boron | 21 | 1 | mg/kg | ACZ Laboratories |
| Manganese | 701 | 3 | mg/kg | ACZ Laboratories |
| Molybdenum | 1 | 1 | mg/kg | ACZ Laboratories |
| Organic Carbon | 1.41 | 0.02 | % | ACZ Laboratories |
| pH | 7.5 | 0.1 | units | ACZ Laboratories |
| Thallium | 0.12 | 0.01 | mg/kg | ACZ Laboratories |
| Uranium | 1.64 | 0.01 | mg/kg | ACZ Laboratories |
| Vanadium | 37.3 | 0.5 | mg/kg | ACZ Laboratories |

Station: SCMTT026

Matrix: Sediment

Sample Date: 6/14/2001

Event: 2

Sample Type: FO

SAMPLE ID SD-SCMTT026-102

| | Result | MDL | Units | Lab |
|----------|--------|------|-------|------------|
| Arsenic | 5.3 | 0.5 | ug/g | U of Idaho |
| Cadmium | 0.99 | 0.2 | ug/g | U of Idaho |
| Chromium | 39 | 0.18 | ug/g | U of Idaho |
| Copper | 5.3 | 0.28 | ug/g | U of Idaho |
| Lead | BDL | 1.5 | ug/g | U of Idaho |
| Mercury | 14 | 4.2 | ug/kg | U of Idaho |
| Nickel | 16 | 0.5 | ug/g | U of Idaho |
| Selenium | 2.8 | 0.04 | ug/g | U of Idaho |
| Silver | BDL | 0.2 | ug/g | U of Idaho |
| Zinc | 77 | 0.14 | ug/g | U of Idaho |

| | Result | MDL | Units | Lab |
|---------------------|--------|-------|-------|------------|
| > 2 mm | 19 | | % | U of Idaho |
| Antimony | BDL | 1.6 | ug/g | U of Idaho |
| Barium | 110 | 0.18 | ug/g | U of Idaho |
| Beryllium | 0.7 | 0.08 | ug/g | U of Idaho |
| Boron | 7.7 | 2 | ug/g | U of Idaho |
| Clay | 2.2 | 0.1 | % | U of Idaho |
| Elect. Conductivity | 2.7 | 0.001 | dS/m | U of Idaho |
| Fluoride | 400 | 1 | ug/g | U of Idaho |
| Manganese | 630 | 0.1 | ug/g | U of Idaho |
| Molybdenum | BDL | 3.8 | ug/g | U of Idaho |
| Organic Carbon | 1.6 | 0.06 | % | U of Idaho |
| pH | 7.8 | | | U of Idaho |
| Sand | 61.2 | 0.1 | % | U of Idaho |
| Silt | 36.6 | 0.1 | % | U of Idaho |
| Sodium | 690 | 100 | ug/g | U of Idaho |
| Thallium | 6.9 | 2 | ug/g | U of Idaho |
| Uranium | 8.7 | 2 | ug/g | U of Idaho |
| Vanadium | 31 | 0.16 | ug/g | U of Idaho |

Station: SCPTT027

Matrix: Sediment

Sample Date: 6/15/2001

Event: 2

Sample Type: FO

SAMPLE ID SD-SCPTT027-102

| | Result | MDL | Units | Lab |
|----------|--------|------|-------|------------|
| Arsenic | 2.8 | 0.5 | ug/g | U of Idaho |
| Cadmium | 1.8 | 0.2 | ug/g | U of Idaho |
| Chromium | 49 | 0.18 | ug/g | U of Idaho |
| Copper | 15 | 0.28 | ug/g | U of Idaho |
| Lead | 4.4 | 1.5 | ug/g | U of Idaho |
| Mercury | 14 | 4.2 | ug/kg | U of Idaho |
| Nickel | 37 | 0.5 | ug/g | U of Idaho |
| Selenium | 2.8 | 0.04 | ug/g | U of Idaho |
| Silver | BDL | 0.2 | ug/g | U of Idaho |
| Zinc | 110 | 0.14 | ug/g | U of Idaho |

| | Result | MDL | Units | Lab |
|---------------------|--------|-------|-------|------------|
| > 2 mm | 15 | | % | U of Idaho |
| Antimony | 2 | 1.6 | ug/g | U of Idaho |
| Barium | 160 | 0.18 | ug/g | U of Idaho |
| Beryllium | 1.1 | 0.08 | ug/g | U of Idaho |
| Boron | 3.6 | 2 | ug/g | U of Idaho |
| Clay | 5.6 | 0.1 | % | U of Idaho |
| Elect. Conductivity | 1.2 | 0.001 | dS/m | U of Idaho |
| Fluoride | 350 | 1 | ug/g | U of Idaho |
| Manganese | 2100 | 0.1 | ug/g | U of Idaho |
| Molybdenum | BDL | 3.8 | ug/g | U of Idaho |
| Organic Carbon | 2.8 | 0.06 | % | U of Idaho |
| pH | 7.6 | | | U of Idaho |
| Sand | 46.2 | 0.1 | % | U of Idaho |
| Silt | 48.2 | 0.1 | % | U of Idaho |
| Sodium | 160 | 100 | ug/g | U of Idaho |
| Thallium | BDL | 2 | ug/g | U of Idaho |
| Uranium | 12 | 2 | ug/g | U of Idaho |
| Vanadium | 49 | 0.16 | ug/g | U of Idaho |

Station: SHETT019

Matrix: Sediment

Sample Date: 6/13/2001

Event: 2

Sample Type: FO

SAMPLE ID SD-SHETT019-102

| | Result | MDL | Units | Lab |
|----------|--------|------|-------|------------|
| Arsenic | 11 | 0.5 | ug/g | U of Idaho |
| Cadmium | BDL | 0.2 | ug/g | U of Idaho |
| Chromium | 31 | 0.18 | ug/g | U of Idaho |
| Copper | 9.2 | 0.28 | ug/g | U of Idaho |
| Lead | 6.1 | 1.5 | ug/g | U of Idaho |
| Mercury | 26 | 4.2 | ug/kg | U of Idaho |
| Nickel | 16 | 0.5 | ug/g | U of Idaho |
| Selenium | 0.92 | 0.04 | ug/g | U of Idaho |
| Silver | BDL | 0.2 | ug/g | U of Idaho |
| Zinc | 66 | 0.14 | ug/g | U of Idaho |

| | Result | MDL | Units | Lab |
|---------------------|--------|-------|-------|------------|
| > 2 mm | 15 | | % | U of Idaho |
| Antimony | BDL | 1.6 | ug/g | U of Idaho |
| Barium | 140 | 0.18 | ug/g | U of Idaho |
| Beryllium | 1 | 0.08 | ug/g | U of Idaho |
| Boron | 13 | 2 | ug/g | U of Idaho |
| Clay | 1.8 | 0.1 | % | U of Idaho |
| Elect. Conductivity | 0.93 | 0.001 | dS/m | U of Idaho |
| Fluoride | 180 | 1 | ug/g | U of Idaho |
| Manganese | 530 | 0.1 | ug/g | U of Idaho |
| Molybdenum | BDL | 3.8 | ug/g | U of Idaho |
| Organic Carbon | 2.4 | 0.06 | % | U of Idaho |
| pH | 7.5 | | | U of Idaho |
| Sand | 42.2 | 0.1 | % | U of Idaho |
| Silt | 56 | 0.1 | % | U of Idaho |
| Sodium | BDL | 100 | ug/g | U of Idaho |
| Thallium | 2.8 | 2 | ug/g | U of Idaho |
| Uranium | 4.4 | 2 | ug/g | U of Idaho |
| Vanadium | 34 | 0.16 | ug/g | U of Idaho |

Station: SLCTT002

Matrix: Sediment

Sample Date: 6/15/2001

Event: 2

Sample Type: FO

SAMPLE ID SD-SLCTT002-102

| | Result | MDL | Units | Lab |
|----------|--------|------|-------|------------|
| Arsenic | 5.9 | 0.5 | ug/g | U of Idaho |
| Cadmium | 2.8 | 0.2 | ug/g | U of Idaho |
| Chromium | 99 | 0.18 | ug/g | U of Idaho |
| Copper | 20 | 0.28 | ug/g | U of Idaho |
| Lead | 7.4 | 1.5 | ug/g | U of Idaho |
| Mercury | 12 | 4.2 | ug/kg | U of Idaho |
| Nickel | 39 | 0.5 | ug/g | U of Idaho |
| Selenium | 3.8 | 0.04 | ug/g | U of Idaho |
| Silver | BDL | 0.2 | ug/g | U of Idaho |
| Zinc | 170 | 0.14 | ug/g | U of Idaho |

| | Result | MDL | Units | Lab |
|---------------------|--------|-------|-------|------------|
| > 2 mm | 18 | | % | U of Idaho |
| Antimony | 3.5 | 1.6 | ug/g | U of Idaho |
| Barium | 170 | 0.18 | ug/g | U of Idaho |
| Beryllium | 1.4 | 0.08 | ug/g | U of Idaho |
| Boron | 5.7 | 2 | ug/g | U of Idaho |
| Clay | 33.3 | 0.1 | % | U of Idaho |
| Elect. Conductivity | 1.3 | 0.001 | dS/m | U of Idaho |
| Fluoride | 220 | 1 | ug/g | U of Idaho |
| Manganese | 380 | 0.1 | ug/g | U of Idaho |
| Molybdenum | BDL | 3.8 | ug/g | U of Idaho |
| Organic Carbon | 4 | 0.06 | % | U of Idaho |
| pH | 6.5 | | | U of Idaho |
| Sand | 12.4 | 0.1 | % | U of Idaho |
| Silt | 54.3 | 0.1 | % | U of Idaho |
| Sodium | 230 | 100 | ug/g | U of Idaho |
| Thallium | BDL | 2 | ug/g | U of Idaho |
| Uranium | 14 | 2 | ug/g | U of Idaho |
| Vanadium | 61 | 0.16 | ug/g | U of Idaho |

Station: SLUTT005

Matrix: Sediment

Sample Date: 6/16/2001

Event: 2

Sample Type: FO

SAMPLE ID SD-SLUTT005-102

| | Result | MDL | Units | Lab |
|----------|--------|------|-------|------------|
| Arsenic | 5.3 | 0.5 | ug/g | U of Idaho |
| Cadmium | 2.5 | 0.2 | ug/g | U of Idaho |
| Chromium | 51 | 0.18 | ug/g | U of Idaho |
| Copper | 9.4 | 0.28 | ug/g | U of Idaho |
| Lead | 7.2 | 1.5 | ug/g | U of Idaho |
| Mercury | 17 | 4.2 | ug/kg | U of Idaho |
| Nickel | 17 | 0.5 | ug/g | U of Idaho |
| Selenium | 1 | 0.04 | ug/g | U of Idaho |
| Silver | BDL | 0.2 | ug/g | U of Idaho |
| Zinc | 100 | 0.14 | ug/g | U of Idaho |

| | Result | MDL | Units | Lab |
|---------------------|--------|-------|-------|------------|
| > 2 mm | 23 | | % | U of Idaho |
| Antimony | BDL | 1.6 | ug/g | U of Idaho |
| Barium | 140 | 0.18 | ug/g | U of Idaho |
| Beryllium | 0.89 | 0.08 | ug/g | U of Idaho |
| Boron | 6.5 | 2 | ug/g | U of Idaho |
| Clay | 17.2 | 0.1 | % | U of Idaho |
| Elect. Conductivity | 0.76 | 0.001 | dS/m | U of Idaho |
| Fluoride | 130 | 1 | ug/g | U of Idaho |
| Manganese | 430 | 0.1 | ug/g | U of Idaho |
| Molybdenum | BDL | 3.8 | ug/g | U of Idaho |
| Organic Carbon | 3.3 | 0.06 | % | U of Idaho |
| pH | 7.2 | | | U of Idaho |
| Sand | 15.6 | 0.1 | % | U of Idaho |
| Silt | 67.2 | 0.1 | % | U of Idaho |
| Sodium | 260 | 100 | ug/g | U of Idaho |
| Thallium | BDL | 2 | ug/g | U of Idaho |
| Uranium | 3.6 | 2 | ug/g | U of Idaho |
| Vanadium | 39 | 0.16 | ug/g | U of Idaho |

Station: SLUTT005

Matrix: Sediment

Sample Date: 6/16/2001

Event: 2

Sample Type: FD

SAMPLE ID SD-SLUTT005-202

| | Result | MDL | Units | Lab |
|----------|--------|------|-------|------------|
| Arsenic | 7.8 | 0.5 | ug/g | U of Idaho |
| Cadmium | 2.7 | 0.2 | ug/g | U of Idaho |
| Chromium | 33 | 0.18 | ug/g | U of Idaho |
| Copper | 8.6 | 0.28 | ug/g | U of Idaho |
| Lead | 3.8 | 1.5 | ug/g | U of Idaho |
| Mercury | 11 | 4.2 | ug/kg | U of Idaho |
| Nickel | 16 | 0.5 | ug/g | U of Idaho |
| Selenium | 0.86 | 0.04 | ug/g | U of Idaho |
| Silver | BDL | 0.2 | ug/g | U of Idaho |
| Zinc | 77 | 0.14 | ug/g | U of Idaho |

| | Result | MDL | Units | Lab |
|---------------------|--------|-------|-------|------------|
| > 2 mm | 15 | | % | U of Idaho |
| Antimony | 2.5 | 1.6 | ug/g | U of Idaho |
| Barium | 110 | 0.18 | ug/g | U of Idaho |
| Beryllium | 0.78 | 0.08 | ug/g | U of Idaho |
| Boron | 12 | 2 | ug/g | U of Idaho |
| Clay | 2.6 | 0.1 | % | U of Idaho |
| Elect. Conductivity | 1 | 0.001 | dS/m | U of Idaho |
| Fluoride | 430 | 1 | ug/g | U of Idaho |
| Manganese | 310 | 0.1 | ug/g | U of Idaho |
| Molybdenum | BDL | 3.8 | ug/g | U of Idaho |
| Organic Carbon | 2.9 | 0.06 | % | U of Idaho |
| pH | 7.4 | | | U of Idaho |
| Sand | 53.2 | 0.1 | % | U of Idaho |
| Silt | 44.2 | 0.1 | % | U of Idaho |
| Sodium | 130 | 100 | ug/g | U of Idaho |
| Thallium | BDL | 2 | ug/g | U of Idaho |
| Uranium | 2.7 | 2 | ug/g | U of Idaho |
| Vanadium | 27 | 0.16 | ug/g | U of Idaho |

Station: SMATT021

Matrix: Sediment

Sample Date: 6/14/2001

Event: 2

Sample Type: FO

SAMPLE ID SD-SMATT021-102

| | Result | MDL | Units | Lab |
|----------|--------|------|-------|------------|
| Arsenic | 12 | 0.5 | ug/g | U of Idaho |
| Cadmium | BDL | 0.2 | ug/g | U of Idaho |
| Chromium | 43 | 0.18 | ug/g | U of Idaho |
| Copper | 17 | 0.28 | ug/g | U of Idaho |
| Lead | 12 | 1.5 | ug/g | U of Idaho |
| Mercury | 34 | 4.2 | ug/kg | U of Idaho |
| Nickel | 23 | 0.5 | ug/g | U of Idaho |
| Selenium | 1.4 | 0.04 | ug/g | U of Idaho |
| Silver | BDL | 0.2 | ug/g | U of Idaho |
| Zinc | 96 | 0.14 | ug/g | U of Idaho |

| | Result | MDL | Units | Lab |
|---------------------|--------|-------|-------|------------|
| > 2 mm | 16 | | % | U of Idaho |
| Antimony | BDL | 1.6 | ug/g | U of Idaho |
| Barium | 180 | 0.18 | ug/g | U of Idaho |
| Beryllium | 1.3 | 0.08 | ug/g | U of Idaho |
| Boron | 8.9 | 2 | ug/g | U of Idaho |
| Clay | 22.2 | 0.1 | % | U of Idaho |
| Elect. Conductivity | 0.63 | 0.001 | dS/m | U of Idaho |
| Fluoride | 230 | 1 | ug/g | U of Idaho |
| Manganese | 2600 | 0.1 | ug/g | U of Idaho |
| Molybdenum | BDL | 3.8 | ug/g | U of Idaho |
| Organic Carbon | 4.5 | 0.06 | % | U of Idaho |
| pH | 7.4 | | | U of Idaho |
| Sand | 32.3 | 0.1 | % | U of Idaho |
| Silt | 45.5 | 0.1 | % | U of Idaho |
| Sodium | 160 | 100 | ug/g | U of Idaho |
| Thallium | BDL | 2 | ug/g | U of Idaho |
| Uranium | 6.2 | 2 | ug/g | U of Idaho |
| Vanadium | 55 | 0.16 | ug/g | U of Idaho |

Station: SPRTT016

Matrix: Sediment

Sample Date: 6/15/2001

Event: 2

Sample Type: FO

SAMPLE ID SD-SPRTT016-102

| | Result | MDL | Units | Lab |
|----------|--------|------|-------|------------|
| Arsenic | 1.8 | 0.5 | ug/g | U of Idaho |
| Cadmium | 1.5 | 0.2 | ug/g | U of Idaho |
| Chromium | 43 | 0.18 | ug/g | U of Idaho |
| Copper | 10 | 0.28 | ug/g | U of Idaho |
| Lead | 1.7 | 1.5 | ug/g | U of Idaho |
| Mercury | 12 | 4.2 | ug/kg | U of Idaho |
| Nickel | 23 | 0.5 | ug/g | U of Idaho |
| Selenium | 4.4 | 0.04 | ug/g | U of Idaho |
| Silver | BDL | 0.2 | ug/g | U of Idaho |
| Zinc | 72 | 0.14 | ug/g | U of Idaho |

| | Result | MDL | Units | Lab |
|---------------------|--------|-------|-------|------------|
| > 2 mm | 26 | | % | U of Idaho |
| Antimony | BDL | 1.6 | ug/g | U of Idaho |
| Barium | 94 | 0.18 | ug/g | U of Idaho |
| Beryllium | 0.9 | 0.08 | ug/g | U of Idaho |
| Boron | BDL | 2 | ug/g | U of Idaho |
| Clay | 2.6 | 0.1 | % | U of Idaho |
| Elect. Conductivity | 1.6 | 0.001 | dS/m | U of Idaho |
| Fluoride | 500 | 1 | ug/g | U of Idaho |
| Manganese | 390 | 0.1 | ug/g | U of Idaho |
| Molybdenum | BDL | 3.8 | ug/g | U of Idaho |
| Organic Carbon | 2.1 | 0.06 | % | U of Idaho |
| pH | 7.4 | | | U of Idaho |
| Sand | 57.2 | 0.1 | % | U of Idaho |
| Silt | 40.2 | 0.1 | % | U of Idaho |
| Sodium | BDL | 100 | ug/g | U of Idaho |
| Thallium | BDL | 2 | ug/g | U of Idaho |
| Uranium | 5.3 | 2 | ug/g | U of Idaho |
| Vanadium | 34 | 0.16 | ug/g | U of Idaho |

Station: SSBTT022

Matrix: Sediment

Sample Date: 6/14/2001

Event: 2

Sample Type: FO

SAMPLE ID SD-SSBTT022-102

| | Result | MDL | Units | Lab |
|----------|--------|------|-------|------------|
| Arsenic | 11 | 0.5 | ug/g | U of Idaho |
| Cadmium | 2.4 | 0.2 | ug/g | U of Idaho |
| Chromium | 68 | 0.18 | ug/g | U of Idaho |
| Copper | 9.2 | 0.28 | ug/g | U of Idaho |
| Lead | 5.7 | 1.5 | ug/g | U of Idaho |
| Mercury | 14 | 4.2 | ug/kg | U of Idaho |
| Nickel | 27 | 0.5 | ug/g | U of Idaho |
| Selenium | 1.4 | 0.04 | ug/g | U of Idaho |
| Silver | BDL | 0.2 | ug/g | U of Idaho |
| Zinc | 110 | 0.14 | ug/g | U of Idaho |

| | Result | MDL | Units | Lab |
|---------------------|--------|-------|-------|------------|
| > 2 mm | 29 | | % | U of Idaho |
| Antimony | BDL | 1.6 | ug/g | U of Idaho |
| Barium | 130 | 0.18 | ug/g | U of Idaho |
| Beryllium | 0.86 | 0.08 | ug/g | U of Idaho |
| Boron | BDL | 2 | ug/g | U of Idaho |
| Clay | 1.2 | 0.1 | % | U of Idaho |
| Elect. Conductivity | 0.66 | 0.001 | dS/m | U of Idaho |
| Fluoride | 710 | 1 | ug/g | U of Idaho |
| Manganese | 1600 | 0.1 | ug/g | U of Idaho |
| Molybdenum | BDL | 3.8 | ug/g | U of Idaho |
| Organic Carbon | 1.2 | 0.06 | % | U of Idaho |
| pH | 7.6 | | | U of Idaho |
| Sand | 79.2 | 0.1 | % | U of Idaho |
| Silt | 19.6 | 0.1 | % | U of Idaho |
| Sodium | 240 | 100 | ug/g | U of Idaho |
| Thallium | 4 | 2 | ug/g | U of Idaho |
| Uranium | 7.9 | 2 | ug/g | U of Idaho |
| Vanadium | 48 | 0.16 | ug/g | U of Idaho |

Station: USCTT041

Matrix: Sediment

Sample Date: 7/24/2001

Event: 4

Sample Type: FO

SAMPLE ID SED-USCTT041

| | Result | MDL | Units | Lab |
|----------|---------------|------------|--------------|------------------|
| Arsenic | 3.7 | 0.1 | mg/kg | ACZ Laboratories |
| Cadmium | 1.1 | 0.02 | mg/kg | ACZ Laboratories |
| Chromium | 31 | 1 | mg/kg | ACZ Laboratories |
| Copper | 12 | 1 | mg/kg | ACZ Laboratories |
| Lead | 10.1 | 0.02 | mg/kg | ACZ Laboratories |
| Mercury | 0.019 | 0.005 | mg/kg | ACZ Laboratories |
| Nickel | 19.8 | 0.04 | mg/kg | ACZ Laboratories |
| Selenium | 1 | 0.1 | mg/kg | ACZ Laboratories |
| Silver | 0.06 | 0.01 | mg/kg | ACZ Laboratories |
| Zinc | 88 | 1 | mg/kg | ACZ Laboratories |

| | Result | MDL | Units | Lab |
|----------------|---------------|------------|--------------|------------------|
| Aluminum | 19000 | 20 | mg/kg | ACZ Laboratories |
| Antimony | BDL | 0.04 | mg/kg | ACZ Laboratories |
| Barium | 162 | 0.3 | mg/kg | ACZ Laboratories |
| Beryllium | 0.73 | 0.02 | mg/kg | ACZ Laboratories |
| Boron | 23 | 1 | mg/kg | ACZ Laboratories |
| Manganese | 1790 | 3 | mg/kg | ACZ Laboratories |
| Molybdenum | 1 | 1 | mg/kg | ACZ Laboratories |
| Organic Carbon | 1.99 | 0.02 | % | ACZ Laboratories |
| pH | 7.7 | 0.1 | units | ACZ Laboratories |
| Thallium | 0.14 | 0.01 | mg/kg | ACZ Laboratories |
| Uranium | 1.09 | 0.01 | mg/kg | ACZ Laboratories |
| Vanadium | 32 | 0.5 | mg/kg | ACZ Laboratories |

APPENDIX C
FIELD PARAMETER RESULTS

Appendix C - Field Parameter Results

Key to Abbreviations

Headers and Result

ND - No Data Available

Units

mg/L - milligrams per liter
 mV - milliVolts
 pH - pH units
 uS/cm - microSiemens per centimeter
 deg C - degrees Celcius
 NTU - nephelometric turbidity unit
 cfs - cubic feet per second

Station: ANGTT010

| Event: | 1 | Event Start Date: | 5/16/2001 | Event End Date: | 5/18/2001 |
|---------|-------------------------------|-------------------|-----------|-----------------|-----------|
| Matrix: | SW | Result | Units | | |
| | Dissolved Oxygen | 11 | mg/L | | |
| | Oxidation-Reduction Potential | 278 | mV | | |
| | pH | 8 | pH | | |
| | Specific Conductance | 0.338 | uS/cm | | |
| | Streamflow | 2.04 | cfs | | |
| | Temperature | 17 | deg C | | |
| | Turbidity | 10 | NTU | | |

| Event: | 2 | Event Start Date: | 6/13/2001 | Event End Date: | 6/16/2001 |
|---------|-------------------------------|-------------------|-----------|-----------------|-----------|
| Matrix: | SW | Result | Units | | |
| | Dissolved Oxygen | 9 | mg/L | | |
| | Oxidation-Reduction Potential | 110 | mV | | |
| | pH | 8 | pH | | |
| | Specific Conductance | 0.365 | uS/cm | | |
| | Streamflow | 1.67 | cfs | | |
| | Temperature | 13 | deg C | | |
| | Turbidity | -1 | NTU | | |

| Event: | 3 | Event Start Date: | 9/8/2001 | Event End Date: | 9/20/2001 |
|---------|-------------------------------|-------------------|----------|-----------------|-----------|
| Matrix: | SW | Result | Units | | |
| | Dissolved Oxygen | ND | mg/L | | |
| | Oxidation-Reduction Potential | ND | mV | | |
| | pH | ND | pH | | |
| | Specific Conductance | ND | uS/cm | | |
| | Streamflow | ND | cfs | | |
| | Temperature | ND | deg C | | |
| | Turbidity | ND | NTU | | |

Station: BFDTT008

| Event: | 1 | Event Start Date: | 5/16/2001 | Event End Date: | 5/18/2001 |
|---------|----|-------------------------------|-----------|-----------------|-----------|
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 12 | | mg/L |
| | | Oxidation-Reduction Potential | 0 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | 0.341 | | uS/cm |
| | | Streamflow | 142.06 | | cfs |
| | | Temperature | 12 | | deg C |
| | | Turbidity | 25 | | NTU |

| Event: | 2 | Event Start Date: | 6/13/2001 | Event End Date: | 6/16/2001 |
|---------|----|-------------------------------|-----------|-----------------|-----------|
| Matrix: | SD | | Result | | Units |
| | | Oxidation-Reduction Potential | -39 | | mV |
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 11 | | mg/L |
| | | Oxidation-Reduction Potential | 113 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | 0.345 | | uS/cm |
| | | Streamflow | 53.79 | | cfs |
| | | Temperature | 8 | | deg C |
| | | Turbidity | -1 | | NTU |

| Event: | 3 | Event Start Date: | 9/8/2001 | Event End Date: | 9/20/2001 |
|---------|----|-------------------------------|----------|-----------------|-----------|
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 11 | | mg/L |
| | | Oxidation-Reduction Potential | 174 | | mV |
| | | pH | 9 | | pH |
| | | Specific Conductance | 0.314 | | uS/cm |
| | | Streamflow | 31.18 | | cfs |
| | | Temperature | 15 | | deg C |
| | | Turbidity | 1 | | NTU |

Station: BFNTT009

| Event: | 1 | Event Start Date: | 5/16/2001 | Event End Date: | 5/18/2001 |
|---------|----|-------------------------------|-----------|-----------------|-----------|
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 16 | | mg/L |
| | | Oxidation-Reduction Potential | 213 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | 0.339 | | uS/cm |
| | | Streamflow | 73.55 | | cfs |
| | | Temperature | 14 | | deg C |
| | | Turbidity | 24 | | NTU |

| Event: | 2 | Event Start Date: | 6/13/2001 | Event End Date: | 6/16/2001 |
|---------|----|-------------------------------|-----------|-----------------|-----------|
| Matrix: | SD | | Result | | Units |
| | | Oxidation-Reduction Potential | 44 | | mV |
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 13 | | mg/L |
| | | Oxidation-Reduction Potential | 123 | | mV |
| | | pH | 9 | | pH |
| | | Specific Conductance | 0.326 | | uS/cm |
| | | Streamflow | 48.60 | | cfs |
| | | Temperature | 8 | | deg C |
| | | Turbidity | -2 | | NTU |

| Event: | 3 | Event Start Date: | 9/8/2001 | Event End Date: | 9/20/2001 |
|---------|----|-------------------------------|----------|-----------------|-----------|
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 15 | | mg/L |
| | | Oxidation-Reduction Potential | 136 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | 0.311 | | uS/cm |
| | | Streamflow | 23.45 | | cfs |
| | | Temperature | 15 | | deg C |
| | | Turbidity | 1 | | NTU |

Station: BFUTT015

| Event: | 1 | Event Start Date: | 5/16/2001 | Event End Date: | 5/18/2001 |
|---------|----|-------------------------------|-----------|-----------------|-----------|
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 11 | | mg/L |
| | | Oxidation-Reduction Potential | 288 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | 0.361 | | uS/cm |
| | | Streamflow | 67.62 | | cfs |
| | | Temperature | 10 | | deg C |
| | | Turbidity | 5 | | NTU |

| Event: | 2 | Event Start Date: | 6/13/2001 | Event End Date: | 6/16/2001 |
|---------|----|-------------------------------|-----------|-----------------|-----------|
| Matrix: | SD | | Result | | Units |
| | | Oxidation-Reduction Potential | 29 | | mV |
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 12 | | mg/L |
| | | Oxidation-Reduction Potential | 147 | | mV |
| | | pH | 9 | | pH |
| | | Specific Conductance | 0.339 | | uS/cm |
| | | Streamflow | 41.46 | | cfs |
| | | Temperature | 8 | | deg C |
| | | Turbidity | -1 | | NTU |

| Event: | 3 | Event Start Date: | 9/8/2001 | Event End Date: | 9/20/2001 |
|---------|----|-------------------------------|----------|-----------------|-----------|
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 14 | | mg/L |
| | | Oxidation-Reduction Potential | 142 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | 0.335 | | uS/cm |
| | | Streamflow | 19.84 | | cfs |
| | | Temperature | 15 | | deg C |
| | | Turbidity | 2 | | NTU |

Station: CALTT004

| Event: | 1 | Event Start Date: | 5/16/2001 | Event End Date: | 5/18/2001 |
|---------|----|-------------------------------|-----------|-----------------|-----------|
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 9 | | mg/L |
| | | Oxidation-Reduction Potential | 0 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | 0.425 | | uS/cm |
| | | Streamflow | 0.17 | | cfs |
| | | Temperature | 18 | | deg C |
| | | Turbidity | 999 | | NTU |

| Event: | 2 | Event Start Date: | 6/13/2001 | Event End Date: | 6/16/2001 |
|---------|----|-------------------------------|-----------|-----------------|-----------|
| Matrix: | SD | | Result | | Units |
| | | Oxidation-Reduction Potential | 69 | | mV |
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 8 | | mg/L |
| | | Oxidation-Reduction Potential | 79 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | 0.407 | | uS/cm |
| | | Streamflow | 0.02 | | cfs |
| | | Temperature | 15 | | deg C |
| | | Turbidity | 28 | | NTU |

| Event: | 3 | Event Start Date: | 9/8/2001 | Event End Date: | 9/20/2001 |
|---------|----|-------------------------------|----------|-----------------|-----------|
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 7 | | mg/L |
| | | Oxidation-Reduction Potential | 183 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | 0.451 | | uS/cm |
| | | Streamflow | 0.01 | | cfs |
| | | Temperature | 19 | | deg C |
| | | Turbidity | 62 | | NTU |

Station: CCATT029

| Event: | 1 | Event Start Date: | 5/16/2001 | Event End Date: | 5/18/2001 |
|---------|----|-------------------------------|-----------|-----------------|-----------|
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 13 | | mg/L |
| | | Oxidation-Reduction Potential | 302 | | mV |
| | | pH | 9 | | pH |
| | | Specific Conductance | 0.960 | | uS/cm |
| | | Streamflow | 19.23 | | cfs |
| | | Temperature | 14 | | deg C |
| | | Turbidity | 28 | | NTU |

| Event: | 2 | Event Start Date: | 6/13/2001 | Event End Date: | 6/16/2001 |
|---------|----|-------------------------------|-----------|-----------------|-----------|
| Matrix: | SD | | Result | | Units |
| | | Oxidation-Reduction Potential | 71 | | mV |
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 14 | | mg/L |
| | | Oxidation-Reduction Potential | 201 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | ND | | uS/cm |
| | | Streamflow | 11.71 | | cfs |
| | | Temperature | 6 | | deg C |
| | | Turbidity | 3 | | NTU |

| Event: | 3 | Event Start Date: | 9/8/2001 | Event End Date: | 9/20/2001 |
|---------|----|-------------------------------|----------|-----------------|-----------|
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 9 | | mg/L |
| | | Oxidation-Reduction Potential | 99 | | mV |
| | | pH | 9 | | pH |
| | | Specific Conductance | 0.641 | | uS/cm |
| | | Streamflow | 14.43 | | cfs |
| | | Temperature | 12 | | deg C |
| | | Turbidity | ND | | NTU |

Station: DCMTT028

| Event: | 1 | Event Start Date: | 5/16/2001 | Event End Date: | 5/18/2001 |
|---------|----|-------------------------------|-----------|-----------------|-----------|
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 12 | | mg/L |
| | | Oxidation-Reduction Potential | 216 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | 0.396 | | uS/cm |
| | | Streamflow | 7.73 | | cfs |
| | | Temperature | 11 | | deg C |
| | | Turbidity | 41 | | NTU |

| Event: | 2 | Event Start Date: | 6/13/2001 | Event End Date: | 6/16/2001 |
|---------|----|-------------------------------|-----------|-----------------|-----------|
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 13 | | mg/L |
| | | Oxidation-Reduction Potential | 190 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | 0.367 | | uS/cm |
| | | Streamflow | 1.77 | | cfs |
| | | Temperature | 5 | | deg C |
| | | Turbidity | 2 | | NTU |

| Event: | 3 | Event Start Date: | 9/8/2001 | Event End Date: | 9/20/2001 |
|---------|----|-------------------------------|----------|-----------------|-----------|
| Matrix: | SD | | Result | | Units |
| | | Oxidation-Reduction Potential | -6 | | mV |
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 9 | | mg/L |
| | | Oxidation-Reduction Potential | 6 | | mV |
| | | pH | 9 | | pH |
| | | Specific Conductance | 0.375 | | uS/cm |
| | | Streamflow | 1.48 | | cfs |
| | | Temperature | 11 | | deg C |
| | | Turbidity | ND | | NTU |

Station: DIATT018

| Event: | 1 | Event Start Date: | 5/16/2001 | Event End Date: | 5/18/2001 |
|---------|----|-------------------------------|-----------|-----------------|-----------|
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 11 | | mg/L |
| | | Oxidation-Reduction Potential | 247 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | 0.358 | | uS/cm |
| | | Streamflow | 5.90 | | cfs |
| | | Temperature | 11 | | deg C |
| | | Turbidity | 0 | | NTU |

| Event: | 2 | Event Start Date: | 6/13/2001 | Event End Date: | 6/16/2001 |
|---------|----|-------------------------------|-----------|-----------------|-----------|
| Matrix: | SD | | Result | | Units |
| | | Oxidation-Reduction Potential | 188 | | mV |
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | ND | | mg/L |
| | | Oxidation-Reduction Potential | 114 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | 0.377 | | uS/cm |
| | | Streamflow | 5.47 | | cfs |
| | | Temperature | 10 | | deg C |
| | | Turbidity | -5 | | NTU |

| Event: | 3 | Event Start Date: | 9/8/2001 | Event End Date: | 9/20/2001 |
|---------|----|-------------------------------|----------|-----------------|-----------|
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 8 | | mg/L |
| | | Oxidation-Reduction Potential | 113 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | 0.376 | | uS/cm |
| | | Streamflow | 2.87 | | cfs |
| | | Temperature | 10 | | deg C |
| | | Turbidity | 1 | | NTU |

Station: EMCNTT045

| | | | | | |
|----------------|----|-------------------------------|-----------|------------------------|--------------|
| Event: | 4 | Event Start Date: | 7/24/2001 | Event End Date: | 7/26/2001 |
| Matrix: | SW | | | Result | Units |
| | | Dissolved Oxygen | | 9 | mg/L |
| | | Oxidation-Reduction Potential | | 100 | mV |
| | | pH | | 8 | pH |
| | | Specific Conductance | | 0.233 | uS/cm |
| | | Temperature | | 11 | deg C |
| | | Turbidity | | ND | NTU |

Station: EMCTT017

| Event: | 1 | Event Start Date: | 5/16/2001 | Event End Date: | 5/18/2001 |
|---------|----|-------------------------------|-----------|-----------------|-----------|
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 11 | | mg/L |
| | | Oxidation-Reduction Potential | 271 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | 0.407 | | uS/cm |
| | | Streamflow | 1.18 | | cfs |
| | | Temperature | 11 | | deg C |
| | | Turbidity | 41 | | NTU |

| Event: | 2 | Event Start Date: | 6/13/2001 | Event End Date: | 6/16/2001 |
|---------|----|-------------------------------|-----------|-----------------|-----------|
| Matrix: | SD | | Result | | Units |
| | | Oxidation-Reduction Potential | 56 | | mV |

| Matrix: | SW | | Result | | Units |
|---------|----|-------------------------------|--------|--|-------|
| | | Dissolved Oxygen | ND | | mg/L |
| | | Oxidation-Reduction Potential | 110 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | 0.372 | | uS/cm |
| | | Streamflow | 1.06 | | cfs |
| | | Temperature | 10 | | deg C |
| | | Turbidity | 0 | | NTU |

| Event: | 3 | Event Start Date: | 9/8/2001 | Event End Date: | 9/20/2001 |
|---------|----|-------------------------------|----------|-----------------|-----------|
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 10 | | mg/L |
| | | Oxidation-Reduction Potential | 135 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | 0.342 | | uS/cm |
| | | Streamflow | 0.70 | | cfs |
| | | Temperature | 6 | | deg C |
| | | Turbidity | 1 | | NTU |

Station: EMCTT043

| | | | | | |
|----------------|----|-------------------------------|-----------|------------------------|--------------|
| Event: | 4 | Event Start Date: | 7/24/2001 | Event End Date: | 7/26/2001 |
| Matrix: | SW | | | Result | Units |
| | | Dissolved Oxygen | | 10 | mg/L |
| | | Oxidation-Reduction Potential | | 223 | mV |
| | | pH | | 8 | pH |
| | | Specific Conductance | | 0.206 | uS/cm |
| | | Temperature | | 11 | deg C |
| | | Turbidity | | ND | NTU |

Station: GHCTT006

| Event: | 1 | Event Start Date: | 5/16/2001 | Event End Date: | 5/18/2001 |
|---------|----|-------------------------------|-----------|-----------------|-----------|
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 9 | | mg/L |
| | | Oxidation-Reduction Potential | 236 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | 0.662 | | uS/cm |
| | | Streamflow | 0.01 | | cfs |
| | | Temperature | 20 | | deg C |
| | | Turbidity | 12 | | NTU |

| Event: | 2 | Event Start Date: | 6/13/2001 | Event End Date: | 6/16/2001 |
|---------|----|-------------------------------|-----------|-----------------|-----------|
| Matrix: | SD | | Result | | Units |
| | | Oxidation-Reduction Potential | 72 | | mV |
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 8 | | mg/L |
| | | Oxidation-Reduction Potential | 99 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | 0.391 | | uS/cm |
| | | Streamflow | 0.03 | | cfs |
| | | Temperature | 19 | | deg C |
| | | Turbidity | 11 | | NTU |

| Event: | 3 | Event Start Date: | 9/8/2001 | Event End Date: | 9/20/2001 |
|---------|----|-------------------------------|----------|-----------------|-----------|
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | ND | | mg/L |
| | | Oxidation-Reduction Potential | ND | | mV |
| | | pH | ND | | pH |
| | | Specific Conductance | ND | | uS/cm |
| | | Streamflow | ND | | cfs |
| | | Temperature | ND | | deg C |
| | | Turbidity | ND | | NTU |

Station: GTCTT032

| Event: | 1 | Event Start Date: | 5/16/2001 | Event End Date: | 5/18/2001 |
|----------------|----|-------------------------------|---------------|------------------------|--------------|
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 11 | | mg/L |
| | | Oxidation-Reduction Potential | 277 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | 0.386 | | uS/cm |
| | | Streamflow | 1.46 | | cfs |
| | | Temperature | 10 | | deg C |
| | | Turbidity | 10 | | NTU |

| Event: | 2 | Event Start Date: | 6/13/2001 | Event End Date: | 6/16/2001 |
|----------------|----|-------------------------------|---------------|------------------------|--------------|
| Matrix: | SD | | Result | | Units |
| | | Oxidation-Reduction Potential | 163 | | mV |
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | ND | | mg/L |
| | | Oxidation-Reduction Potential | 209 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | 0.377 | | uS/cm |
| | | Streamflow | 0.10 | | cfs |
| | | Temperature | 8 | | deg C |
| | | Turbidity | -5 | | NTU |

| Event: | 3 | Event Start Date: | 9/8/2001 | Event End Date: | 9/20/2001 |
|----------------|----|-------------------------------|---------------|------------------------|--------------|
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 8 | | mg/L |
| | | Oxidation-Reduction Potential | 45 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | 0.379 | | uS/cm |
| | | Streamflow | 2.73 | | cfs |
| | | Temperature | 10 | | deg C |
| | | Turbidity | ND | | NTU |

Station: KCTT042

| Event: | 4 | Event Start Date: | 7/24/2001 | Event End Date: | 7/26/2001 |
|---------|----|-------------------|-----------|-------------------------------|-------------|
| Matrix: | SW | | | Result | Units |
| | | | | Dissolved Oxygen | 10.5 mg/L |
| | | | | Oxidation-Reduction Potential | 80 mV |
| | | | | pH | 8 pH |
| | | | | Specific Conductance | 0.194 uS/cm |
| | | | | Temperature | 10 deg C |
| | | | | Turbidity | 1504 NTU |

Station: LBFTT001

| Event: | 1 | Event Start Date: | 5/16/2001 | Event End Date: | 5/18/2001 |
|---------|----|-------------------|-----------|-------------------------------|-------------|
| Matrix: | SW | | | Result | Units |
| | | | | Dissolved Oxygen | 12 mg/L |
| | | | | Oxidation-Reduction Potential | 167 mV |
| | | | | pH | 7 pH |
| | | | | Specific Conductance | 0.876 uS/cm |
| | | | | Streamflow | 9.56 cfs |
| | | | | Temperature | 14 deg C |
| | | | | Turbidity | 4 NTU |

| Event: | 2 | Event Start Date: | 6/13/2001 | Event End Date: | 6/16/2001 |
|---------|----|-------------------|-----------|-------------------------------|-------------|
| Matrix: | SW | | | Result | Units |
| | | | | Dissolved Oxygen | 9 mg/L |
| | | | | Oxidation-Reduction Potential | 109 mV |
| | | | | pH | 7 pH |
| | | | | Specific Conductance | 0.862 uS/cm |
| | | | | Streamflow | 6.79 cfs |
| | | | | Temperature | 14 deg C |
| | | | | Turbidity | 1 NTU |

| Event: | 3 | Event Start Date: | 9/8/2001 | Event End Date: | 9/20/2001 |
|---------|----|-------------------|----------|-------------------------------|-------------|
| Matrix: | SW | | | Result | Units |
| | | | | Dissolved Oxygen | 8 mg/L |
| | | | | Oxidation-Reduction Potential | 62 mV |
| | | | | pH | 7 pH |
| | | | | Specific Conductance | 0.932 uS/cm |
| | | | | Streamflow | ND cfs |
| | | | | Temperature | 16 deg C |
| | | | | Turbidity | 1 NTU |

Station: LSCTT040

| Event: | 4 | Event Start Date: | 7/24/2001 | Event End Date: | 7/26/2001 |
|---------|-------------------------------|-------------------|-----------|-----------------|-----------|
| Matrix: | SW | Result | | Units | |
| | Dissolved Oxygen | 10 | mg/L | | |
| | Oxidation-Reduction Potential | 222 | mV | | |
| | pH | 8 | pH | | |
| | Specific Conductance | 0.338 | uS/cm | | |
| | Temperature | 17 | deg C | | |
| | Turbidity | -13 | NTU | | |

Station: MACTT011

| Event: | 1 | Event Start Date: | 5/16/2001 | Event End Date: | 5/18/2001 |
|---------|-------------------------------|-------------------|-----------|-----------------|-----------|
| Matrix: | SW | Result | | Units | |
| | Dissolved Oxygen | 10 | mg/L | | |
| | Oxidation-Reduction Potential | 283 | mV | | |
| | pH | 8 | pH | | |
| | Specific Conductance | 0.450 | uS/cm | | |
| | Streamflow | 1.49 | cfs | | |
| | Temperature | 13 | deg C | | |
| | Turbidity | 25 | NTU | | |

| Event: | 2 | Event Start Date: | 6/13/2001 | Event End Date: | 6/16/2001 |
|---------|-------------------------------|-------------------|-----------|-----------------|-----------|
| Matrix: | SW | Result | | Units | |
| | Dissolved Oxygen | 9 | mg/L | | |
| | Oxidation-Reduction Potential | 177 | mV | | |
| | pH | 9 | pH | | |
| | Specific Conductance | 0.390 | uS/cm | | |
| | Streamflow | 0.75 | cfs | | |
| | Temperature | 7 | deg C | | |
| | Turbidity | 0 | NTU | | |

| Event: | 3 | Event Start Date: | 9/8/2001 | Event End Date: | 9/20/2001 |
|---------|-------------------------------|-------------------|----------|-----------------|-----------|
| Matrix: | SW | Result | | Units | |
| | Dissolved Oxygen | 10 | mg/L | | |
| | Oxidation-Reduction Potential | 38 | mV | | |
| | pH | 8 | pH | | |
| | Specific Conductance | 0.431 | uS/cm | | |
| | Streamflow | 0.06 | cfs | | |
| | Temperature | 5 | deg C | | |
| | Turbidity | 3 | NTU | | |

Station: MCATT030

| Event: | 1 | Event Start Date: | 5/16/2001 | Event End Date: | 5/18/2001 |
|----------------|----|-------------------------------|---------------|------------------------|--------------|
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 10 | | mg/L |
| | | Oxidation-Reduction Potential | 267 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | 0.451 | | uS/cm |
| | | Streamflow | 6.31 | | cfs |
| | | Temperature | 15 | | deg C |
| | | Turbidity | 19 | | NTU |

| Event: | 2 | Event Start Date: | 6/13/2001 | Event End Date: | 6/16/2001 |
|----------------|----|-------------------------------|---------------|------------------------|--------------|
| Matrix: | SD | | Result | | Units |
| | | Oxidation-Reduction Potential | 152 | | mV |
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 11 | | mg/L |
| | | Oxidation-Reduction Potential | 172 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | 0.407 | | uS/cm |
| | | Streamflow | 41.91 | | cfs |
| | | Temperature | 14 | | deg C |
| | | Turbidity | 12 | | NTU |

| Event: | 3 | Event Start Date: | 9/8/2001 | Event End Date: | 9/20/2001 |
|----------------|----|-------------------------------|---------------|------------------------|--------------|
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 9 | | mg/L |
| | | Oxidation-Reduction Potential | 101 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | 0.463 | | uS/cm |
| | | Streamflow | 3.16 | | cfs |
| | | Temperature | 10 | | deg C |
| | | Turbidity | ND | | NTU |

Station: MCBTT031

| Event: | 1 | Event Start Date: | 5/16/2001 | Event End Date: | 5/18/2001 |
|---------|-------------------------------|-------------------|-----------|-----------------|-----------|
| Matrix: | SW | Result | | Units | |
| | Dissolved Oxygen | 11 | mg/L | | |
| | Oxidation-Reduction Potential | 303 | mV | | |
| | pH | 8 | pH | | |
| | Specific Conductance | 0.585 | uS/cm | | |
| | Streamflow | 6.91 | cfs | | |
| | Temperature | 15 | deg C | | |
| | Turbidity | 19 | NTU | | |

| Event: | 2 | Event Start Date: | 6/13/2001 | Event End Date: | 6/16/2001 |
|---------|-------------------------------|-------------------|-----------|-----------------|-----------|
| Matrix: | SD | Result | | Units | |
| | Oxidation-Reduction Potential | 149 | mV | | |
| | Oxidation-Reduction Potential | 149 | mV | | |

| Matrix: | SW | Result | | Units | |
|---------|-------------------------------|--------|-------|-------|--|
| | Dissolved Oxygen | 10 | mg/L | | |
| | Oxidation-Reduction Potential | 182 | mV | | |
| | pH | 8 | pH | | |
| | Specific Conductance | 0.439 | uS/cm | | |
| | Streamflow | 35.49 | cfs | | |
| | Temperature | 13 | deg C | | |
| | Turbidity | 15 | NTU | | |

| Event: | 3 | Event Start Date: | 9/8/2001 | Event End Date: | 9/20/2001 |
|---------|-------------------------------|-------------------|----------|-----------------|-----------|
| Matrix: | SW | Result | | Units | |
| | Dissolved Oxygen | 9 | mg/L | | |
| | Oxidation-Reduction Potential | 130 | mV | | |
| | pH | 8 | pH | | |
| | Specific Conductance | 0.639 | uS/cm | | |
| | Streamflow | 3.81 | cfs | | |
| | Temperature | 9 | deg C | | |
| | Turbidity | ND | NTU | | |

Station: MCTT044

| | | | | | |
|----------------|----|-------------------------------|-----------|------------------------|--------------|
| Event: | 4 | Event Start Date: | 7/24/2001 | Event End Date: | 7/26/2001 |
| Matrix: | SW | | | Result | Units |
| | | Dissolved Oxygen | | 9 | mg/L |
| | | Oxidation-Reduction Potential | | 170 | mV |
| | | pH | | 8 | pH |
| | | Specific Conductance | | 0.768 | uS/cm |
| | | Temperature | | 12 | deg C |
| | | Turbidity | | ND | NTU |

Station: NNATT013

| Event: | 1 | Event Start Date: | 5/16/2001 | Event End Date: | 5/18/2001 |
|---------|----|-------------------------------|-----------|-----------------|-----------|
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 11 | | mg/L |
| | | Oxidation-Reduction Potential | 235 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | 0.121 | | uS/cm |
| | | Streamflow | 0.30 | | cfs |
| | | Temperature | 10 | | deg C |
| | | Turbidity | 15 | | NTU |

| Event: | 2 | Event Start Date: | 6/13/2001 | Event End Date: | 6/16/2001 |
|---------|----|-------------------------------|-----------|-----------------|-----------|
| Matrix: | SD | | Result | | Units |
| | | Oxidation-Reduction Potential | -118 | | mV |
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | ND | | mg/L |
| | | Oxidation-Reduction Potential | 111 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | 0.265 | | uS/cm |
| | | Streamflow | 0.04 | | cfs |
| | | Temperature | 9 | | deg C |
| | | Turbidity | 17 | | NTU |

| Event: | 3 | Event Start Date: | 9/8/2001 | Event End Date: | 9/20/2001 |
|---------|----|-------------------------------|----------|-----------------|-----------|
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | ND | | mg/L |
| | | Oxidation-Reduction Potential | ND | | mV |
| | | pH | ND | | pH |
| | | Specific Conductance | ND | | uS/cm |
| | | Streamflow | ND | | cfs |
| | | Temperature | ND | | deg C |
| | | Turbidity | ND | | NTU |

Station: NNBTT012

| Event: | 1 | Event Start Date: | 5/16/2001 | Event End Date: | 5/18/2001 |
|---------|----|-------------------------------|-----------|-----------------|-----------|
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 10 | | mg/L |
| | | Oxidation-Reduction Potential | 221 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | 0.369 | | uS/cm |
| | | Streamflow | 2.24 | | cfs |
| | | Temperature | 13 | | deg C |
| | | Turbidity | 0 | | NTU |

| Event: | 2 | Event Start Date: | 6/13/2001 | Event End Date: | 6/16/2001 |
|---------|----|-------------------------------|-----------|-----------------|-----------|
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | ND | | mg/L |
| | | Oxidation-Reduction Potential | ND | | mV |
| | | pH | ND | | pH |
| | | Specific Conductance | ND | | uS/cm |
| | | Streamflow | ND | | cfs |
| | | Temperature | ND | | deg C |
| | | Turbidity | ND | | NTU |

| Event: | 3 | Event Start Date: | 9/8/2001 | Event End Date: | 9/20/2001 |
|---------|----|-------------------------------|----------|-----------------|-----------|
| Matrix: | SD | | Result | | Units |
| | | Oxidation-Reduction Potential | ND | | mV |
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | ND | | mg/L |
| | | Oxidation-Reduction Potential | ND | | mV |
| | | pH | ND | | pH |
| | | Specific Conductance | ND | | uS/cm |
| | | Streamflow | ND | | cfs |
| | | Temperature | ND | | deg C |
| | | Turbidity | ND | | NTU |

Station: RASTT014

| Event: | 1 | Event Start Date: | 5/16/2001 | Event End Date: | 5/18/2001 |
|---------|----|-------------------------------|-----------|-----------------|-----------|
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 13 | | mg/L |
| | | Oxidation-Reduction Potential | 263 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | 0.357 | | uS/cm |
| | | Streamflow | 0.25 | | cfs |
| | | Temperature | 7 | | deg C |
| | | Turbidity | 10 | | NTU |

| Event: | 2 | Event Start Date: | 6/13/2001 | Event End Date: | 6/16/2001 |
|---------|----|-------------------------------|-----------|-----------------|-----------|
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | ND | | mg/L |
| | | Oxidation-Reduction Potential | 144 | | mV |
| | | pH | 9 | | pH |
| | | Specific Conductance | 0.306 | | uS/cm |
| | | Streamflow | 0.25 | | cfs |
| | | Temperature | 8 | | deg C |
| | | Turbidity | 25 | | NTU |

| Event: | 3 | Event Start Date: | 9/8/2001 | Event End Date: | 9/20/2001 |
|---------|----|-------------------------------|----------|-----------------|-----------|
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 9 | | mg/L |
| | | Oxidation-Reduction Potential | 73 | | mV |
| | | pH | 9 | | pH |
| | | Specific Conductance | 0.332 | | uS/cm |
| | | Streamflow | 0.13 | | cfs |
| | | Temperature | 12 | | deg C |
| | | Turbidity | 12 | | NTU |

Station: SCAETT047

| Event: | 4 | Event Start Date: | 7/24/2001 | Event End Date: | 7/26/2001 |
|---------|----|-------------------------------|-----------|-----------------|-----------|
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 15 | | mg/L |
| | | Oxidation-Reduction Potential | 120 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | 0.279 | | uS/cm |
| | | Temperature | 17 | | deg C |
| | | Turbidity | ND | | NTU |

Station: SCATT024

| Event: | 1 | Event Start Date: | 5/16/2001 | Event End Date: | 5/18/2001 |
|---------|----|-------------------------------|-----------|-----------------|-----------|
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 14 | | mg/L |
| | | Oxidation-Reduction Potential | 276 | | mV |
| | | pH | 9 | | pH |
| | | Specific Conductance | 0.359 | | uS/cm |
| | | Streamflow | 6.73 | | cfs |
| | | Temperature | 6 | | deg C |
| | | Turbidity | 66 | | NTU |

| Event: | 2 | Event Start Date: | 6/13/2001 | Event End Date: | 6/16/2001 |
|---------|----|-------------------------------|-----------|-----------------|-----------|
| Matrix: | SD | | Result | | Units |
| | | Oxidation-Reduction Potential | 173 | | mV |
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 13 | | mg/L |
| | | Oxidation-Reduction Potential | 173 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | 0.302 | | uS/cm |
| | | Streamflow | 4.54 | | cfs |
| | | Temperature | 8 | | deg C |
| | | Turbidity | 46 | | NTU |

| Event: | 3 | Event Start Date: | 9/8/2001 | Event End Date: | 9/20/2001 |
|---------|----|-------------------------------|----------|-----------------|-----------|
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 10 | | mg/L |
| | | Oxidation-Reduction Potential | 46 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | 0.357 | | uS/cm |
| | | Streamflow | 1.58 | | cfs |
| | | Temperature | 8 | | deg C |
| | | Turbidity | 0 | | NTU |

Station: SCBETT046

| Event: | 4 | Event Start Date: | 7/24/2001 | Event End Date: | 7/26/2001 |
|---------|----|-------------------|-----------|-------------------------------|-------------|
| Matrix: | SW | | | Result | Units |
| | | | | Dissolved Oxygen | 12 mg/L |
| | | | | Oxidation-Reduction Potential | 197 mV |
| | | | | pH | 8 pH |
| | | | | Specific Conductance | 0.297 uS/cm |
| | | | | Temperature | 15 deg C |
| | | | | Turbidity | ND NTU |

Station: SCBTT025

| Event: | 1 | Event Start Date: | 5/16/2001 | Event End Date: | 5/18/2001 |
|---------|----|-------------------|-----------|-------------------------------|-------------|
| Matrix: | SW | | | Result | Units |
| | | | | Dissolved Oxygen | 13 mg/L |
| | | | | Oxidation-Reduction Potential | 261 mV |
| | | | | pH | 9 pH |
| | | | | Specific Conductance | 0.361 uS/cm |
| | | | | Streamflow | 5.19 cfs |
| | | | | Temperature | 11 deg C |
| | | | | Turbidity | 41 NTU |

| Event: | 2 | Event Start Date: | 6/13/2001 | Event End Date: | 6/16/2001 |
|---------|----|-------------------|-----------|-------------------------------|-------------|
| Matrix: | SW | | | Result | Units |
| | | | | Dissolved Oxygen | 12 mg/L |
| | | | | Oxidation-Reduction Potential | 184 mV |
| | | | | pH | 8 pH |
| | | | | Specific Conductance | 0.343 uS/cm |
| | | | | Streamflow | 2.66 cfs |
| | | | | Temperature | 10 deg C |
| | | | | Turbidity | 3 NTU |

| Event: | 3 | Event Start Date: | 9/8/2001 | Event End Date: | 9/20/2001 |
|---------|----|-------------------|----------|-------------------------------|-------------|
| Matrix: | SW | | | Result | Units |
| | | | | Dissolved Oxygen | 9 mg/L |
| | | | | Oxidation-Reduction Potential | 103 mV |
| | | | | pH | 8 pH |
| | | | | Specific Conductance | 0.394 uS/cm |
| | | | | Streamflow | 0.60 cfs |
| | | | | Temperature | 14 deg C |
| | | | | Turbidity | 2 NTU |

Station: SCMTT026

| Event: | 1 | Event Start Date: | 5/16/2001 | Event End Date: | 5/18/2001 |
|----------------|----|-------------------------------|---------------|------------------------|--------------|
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 10 | | mg/L |
| | | Oxidation-Reduction Potential | 235 | | mV |
| | | pH | 9 | | pH |
| | | Specific Conductance | 0.428 | | uS/cm |
| | | Streamflow | 9.60 | | cfs |
| | | Temperature | 20 | | deg C |
| | | Turbidity | 3 | | NTU |

| Event: | 2 | Event Start Date: | 6/13/2001 | Event End Date: | 6/16/2001 |
|----------------|----|-------------------------------|---------------|------------------------|--------------|
| Matrix: | SD | | Result | | Units |
| | | Oxidation-Reduction Potential | 48 | | mV |
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 11 | | mg/L |
| | | Oxidation-Reduction Potential | 198 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | 0.394 | | uS/cm |
| | | Streamflow | 8.86 | | cfs |
| | | Temperature | 9 | | deg C |
| | | Turbidity | 2 | | NTU |

| Event: | 3 | Event Start Date: | 9/8/2001 | Event End Date: | 9/20/2001 |
|----------------|----|-------------------------------|---------------|------------------------|--------------|
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 8 | | mg/L |
| | | Oxidation-Reduction Potential | 45 | | mV |
| | | pH | 9 | | pH |
| | | Specific Conductance | 0.334 | | uS/cm |
| | | Streamflow | 12.57 | | cfs |
| | | Temperature | 17 | | deg C |
| | | Turbidity | ND | | NTU |

Station: SCPTT027

| Event: | 1 | Event Start Date: | 5/16/2001 | Event End Date: | 5/18/2001 | |
|---------|----|-------------------|-----------|-------------------------------|-----------|-------|
| Matrix: | SW | | | Result | Units | |
| | | | | Dissolved Oxygen | ND | mg/L |
| | | | | Oxidation-Reduction Potential | ND | mV |
| | | | | pH | ND | pH |
| | | | | Specific Conductance | ND | uS/cm |
| | | | | Streamflow | ND | cfs |
| | | | | Temperature | ND | deg C |
| | | | | Turbidity | ND | NTU |

| Event: | 2 | Event Start Date: | 6/13/2001 | Event End Date: | 6/16/2001 | |
|---------|----|-------------------|-----------|-------------------------------|-----------|----|
| Matrix: | SD | | | Result | Units | |
| | | | | Oxidation-Reduction Potential | 142 | mV |

| Matrix: | SW | | | Result | Units | |
|---------|----|--|--|-------------------------------|-------|-------|
| | | | | Dissolved Oxygen | 13 | mg/L |
| | | | | Oxidation-Reduction Potential | 157 | mV |
| | | | | pH | 9 | pH |
| | | | | Specific Conductance | 0.378 | uS/cm |
| | | | | Streamflow | 0.47 | cfs |
| | | | | Temperature | 22 | deg C |
| | | | | Turbidity | -2 | NTU |

| Event: | 3 | Event Start Date: | 9/8/2001 | Event End Date: | 9/20/2001 | |
|---------|----|-------------------|----------|-------------------------------|-----------|-------|
| Matrix: | SW | | | Result | Units | |
| | | | | Dissolved Oxygen | 10 | mg/L |
| | | | | Oxidation-Reduction Potential | 110 | mV |
| | | | | pH | 9 | pH |
| | | | | Specific Conductance | 0.348 | uS/cm |
| | | | | Streamflow | 0.12 | cfs |
| | | | | Temperature | 16 | deg C |
| | | | | Turbidity | 0 | NTU |

Station: SHETT019

| Event: | 1 | Event Start Date: | 5/16/2001 | Event End Date: | 5/18/2001 |
|---------|----|-------------------------------|-----------|-----------------|-----------|
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 12 | | mg/L |
| | | Oxidation-Reduction Potential | 256 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | 0.369 | | uS/cm |
| | | Streamflow | 6.11 | | cfs |
| | | Temperature | 10 | | deg C |
| | | Turbidity | 10 | | NTU |

| Event: | 2 | Event Start Date: | 6/13/2001 | Event End Date: | 6/16/2001 |
|---------|----|-------------------------------|-----------|-----------------|-----------|
| Matrix: | SD | | Result | | Units |
| | | Oxidation-Reduction Potential | 44 | | mV |
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | ND | | mg/L |
| | | Oxidation-Reduction Potential | 116 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | 0.364 | | uS/cm |
| | | Streamflow | 4.68 | | cfs |
| | | Temperature | 11 | | deg C |
| | | Turbidity | -3 | | NTU |

| Event: | 3 | Event Start Date: | 9/8/2001 | Event End Date: | 9/20/2001 |
|---------|----|-------------------------------|----------|-----------------|-----------|
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 11 | | mg/L |
| | | Oxidation-Reduction Potential | 68 | | mV |
| | | pH | 9 | | pH |
| | | Specific Conductance | 0.372 | | uS/cm |
| | | Streamflow | 2.41 | | cfs |
| | | Temperature | 15 | | deg C |
| | | Turbidity | 1 | | NTU |

Station: SLCTT002

| Event: | 1 | Event Start Date: | 5/16/2001 | Event End Date: | 5/18/2001 |
|----------------|----|-------------------------------|---------------|------------------------|--------------|
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 11 | | mg/L |
| | | Oxidation-Reduction Potential | 218 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | 0.326 | | uS/cm |
| | | Streamflow | 0.16 | | cfs |
| | | Temperature | 14 | | deg C |
| | | Turbidity | 32 | | NTU |

| Event: | 2 | Event Start Date: | 6/13/2001 | Event End Date: | 6/16/2001 |
|----------------|----|-------------------------------|---------------|------------------------|--------------|
| Matrix: | SD | | Result | | Units |
| | | Oxidation-Reduction Potential | 49 | | mV |
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 9 | | mg/L |
| | | Oxidation-Reduction Potential | 89 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | 0.325 | | uS/cm |
| | | Streamflow | 0.04 | | cfs |
| | | Temperature | 12 | | deg C |
| | | Turbidity | 4 | | NTU |

| Event: | 3 | Event Start Date: | 9/8/2001 | Event End Date: | 9/20/2001 |
|----------------|----|-------------------------------|---------------|------------------------|--------------|
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 9 | | mg/L |
| | | Oxidation-Reduction Potential | 139 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | 0.282 | | uS/cm |
| | | Streamflow | 0.03 | | cfs |
| | | Temperature | 16 | | deg C |
| | | Turbidity | 31 | | NTU |

Station: SLUTT005

| Event: | 1 | Event Start Date: | 5/16/2001 | Event End Date: | 5/18/2001 |
|---------|-------------------------------|-------------------|-----------|-----------------|-----------|
| Matrix: | SW | Result | | Units | |
| | Dissolved Oxygen | 10 | mg/L | | |
| | Oxidation-Reduction Potential | 0 | mV | | |
| | pH | 8 | pH | | |
| | Specific Conductance | 0.404 | uS/cm | | |
| | Streamflow | 1.28 | cfs | | |
| | Temperature | 13 | deg C | | |
| | Turbidity | 33 | NTU | | |

| Event: | 2 | Event Start Date: | 6/13/2001 | Event End Date: | 6/16/2001 |
|---------|-------------------------------|-------------------|-----------|-----------------|-----------|
| Matrix: | SD | Result | | Units | |
| | Oxidation-Reduction Potential | 62 | mV | | |
| | Oxidation-Reduction Potential | 62 | mV | | |
| Matrix: | SW | Result | | Units | |
| | Dissolved Oxygen | 9 | mg/L | | |
| | Oxidation-Reduction Potential | 117 | mV | | |
| | pH | 8 | pH | | |
| | Specific Conductance | 0.401 | uS/cm | | |
| | Streamflow | 1.05 | cfs | | |
| | Temperature | 12 | deg C | | |
| | Turbidity | 4 | NTU | | |

| Event: | 3 | Event Start Date: | 9/8/2001 | Event End Date: | 9/20/2001 |
|---------|-------------------------------|-------------------|----------|-----------------|-----------|
| Matrix: | SW | Result | | Units | |
| | Dissolved Oxygen | 11 | mg/L | | |
| | Oxidation-Reduction Potential | 159 | mV | | |
| | pH | 8 | pH | | |
| | Specific Conductance | 0.393 | uS/cm | | |
| | Streamflow | 0.29 | cfs | | |
| | Temperature | 7 | deg C | | |
| | Turbidity | 2 | NTU | | |

Station: SMATT021

| Event: | 1 | Event Start Date: | 5/16/2001 | Event End Date: | 5/18/2001 |
|---------|----|-------------------------------|-----------|-----------------|-----------|
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 15 | | mg/L |
| | | Oxidation-Reduction Potential | 256 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | 0.415 | | uS/cm |
| | | Streamflow | 0.12 | | cfs |
| | | Temperature | 6 | | deg C |
| | | Turbidity | 68 | | NTU |

| Event: | 2 | Event Start Date: | 6/13/2001 | Event End Date: | 6/16/2001 |
|---------|----|-------------------------------|-----------|-----------------|-----------|
| Matrix: | SD | | Result | | Units |
| | | Oxidation-Reduction Potential | 72 | | mV |

| Matrix: | SW | | Result | | Units |
|---------|----|-------------------------------|--------|--|-------|
| | | Dissolved Oxygen | 12 | | mg/L |
| | | Oxidation-Reduction Potential | 170 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | 0.393 | | uS/cm |
| | | Streamflow | 0.10 | | cfs |
| | | Temperature | 6 | | deg C |
| | | Turbidity | 5 | | NTU |

| Event: | 3 | Event Start Date: | 9/8/2001 | Event End Date: | 9/20/2001 |
|---------|----|-------------------------------|----------|-----------------|-----------|
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 9 | | mg/L |
| | | Oxidation-Reduction Potential | 148 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | 0.356 | | uS/cm |
| | | Streamflow | 0.11 | | cfs |
| | | Temperature | 7 | | deg C |
| | | Turbidity | 2 | | NTU |

Station: SMBTT020

| Event: | 1 | Event Start Date: | 5/16/2001 | Event End Date: | 5/18/2001 |
|---------|----|-------------------------------|-----------|-----------------|-----------|
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 10 | | mg/L |
| | | Oxidation-Reduction Potential | 271 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | 0.438 | | uS/cm |
| | | Streamflow | 0.82 | | cfs |
| | | Temperature | 19 | | deg C |
| | | Turbidity | 32 | | NTU |

| Event: | 2 | Event Start Date: | 6/13/2001 | Event End Date: | 6/16/2001 |
|---------|----|-------------------------------|-----------|-----------------|-----------|
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 12 | | mg/L |
| | | Oxidation-Reduction Potential | 186 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | 0.389 | | uS/cm |
| | | Streamflow | 0.61 | | cfs |
| | | Temperature | 9 | | deg C |
| | | Turbidity | 36 | | NTU |

| Event: | 3 | Event Start Date: | 9/8/2001 | Event End Date: | 9/20/2001 |
|---------|----|-------------------------------|----------|-----------------|-----------|
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 8 | | mg/L |
| | | Oxidation-Reduction Potential | 48 | | mV |
| | | pH | 9 | | pH |
| | | Specific Conductance | 0.408 | | uS/cm |
| | | Streamflow | 0.38 | | cfs |
| | | Temperature | 15 | | deg C |
| | | Turbidity | 6 | | NTU |

Station: SPRTT016

| Event: | 1 | Event Start Date: | 5/16/2001 | Event End Date: | 5/18/2001 |
|----------------|----|-------------------------------|---------------|------------------------|--------------|
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 13 | | mg/L |
| | | Oxidation-Reduction Potential | 236 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | 0.355 | | uS/cm |
| | | Streamflow | 8.86 | | cfs |
| | | Temperature | 9 | | deg C |
| | | Turbidity | 10 | | NTU |

| Event: | 2 | Event Start Date: | 6/13/2001 | Event End Date: | 6/16/2001 |
|----------------|----|-------------------------------|---------------|------------------------|--------------|
| Matrix: | SD | | Result | | Units |
| | | Oxidation-Reduction Potential | -45 | | mV |
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | ND | | mg/L |
| | | Oxidation-Reduction Potential | 112 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | 0.348 | | uS/cm |
| | | Streamflow | 8.73 | | cfs |
| | | Temperature | 12 | | deg C |
| | | Turbidity | -5 | | NTU |

| Event: | 3 | Event Start Date: | 9/8/2001 | Event End Date: | 9/20/2001 |
|----------------|----|-------------------------------|---------------|------------------------|--------------|
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 10 | | mg/L |
| | | Oxidation-Reduction Potential | 112 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | 0.344 | | uS/cm |
| | | Streamflow | 4.68 | | cfs |
| | | Temperature | 10 | | deg C |
| | | Turbidity | 1 | | NTU |

Station: SSBTT022

| Event: | 1 | Event Start Date: | 5/16/2001 | Event End Date: | 5/18/2001 |
|---------|----|-------------------------------|-----------|-----------------|-----------|
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 11 | | mg/L |
| | | Oxidation-Reduction Potential | 269 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | 0.412 | | uS/cm |
| | | Streamflow | 5.35 | | cfs |
| | | Temperature | 12 | | deg C |
| | | Turbidity | 36 | | NTU |

| Event: | 2 | Event Start Date: | 6/13/2001 | Event End Date: | 6/16/2001 |
|---------|----|-------------------------------|-----------|-----------------|-----------|
| Matrix: | SD | | Result | | Units |
| | | Oxidation-Reduction Potential | 194 | | mV |
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 10 | | mg/L |
| | | Oxidation-Reduction Potential | 194 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | 0.395 | | uS/cm |
| | | Streamflow | 6.30 | | cfs |
| | | Temperature | 12 | | deg C |
| | | Turbidity | 8 | | NTU |

| Event: | 3 | Event Start Date: | 9/8/2001 | Event End Date: | 9/20/2001 |
|---------|----|-------------------------------|----------|-----------------|-----------|
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 8 | | mg/L |
| | | Oxidation-Reduction Potential | 77 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | 0.396 | | uS/cm |
| | | Streamflow | 5.25 | | cfs |
| | | Temperature | 12 | | deg C |
| | | Turbidity | 0 | | NTU |

Station: TRATT003

| Event: | 1 | Event Start Date: | 5/16/2001 | Event End Date: | 5/18/2001 |
|---------|----|-------------------------------|-----------|-----------------|-----------|
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 13 | | mg/L |
| | | Oxidation-Reduction Potential | 0 | | mV |
| | | pH | 9 | | pH |
| | | Specific Conductance | 0.358 | | uS/cm |
| | | Streamflow | 2.46 | | cfs |
| | | Temperature | 20 | | deg C |
| | | Turbidity | 11 | | NTU |

| Event: | 2 | Event Start Date: | 6/13/2001 | Event End Date: | 6/16/2001 |
|---------|----|-------------------------------|-----------|-----------------|-----------|
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 12 | | mg/L |
| | | Oxidation-Reduction Potential | 108 | | mV |
| | | pH | 9 | | pH |
| | | Specific Conductance | 0.317 | | uS/cm |
| | | Streamflow | 1.53 | | cfs |
| | | Temperature | 16 | | deg C |
| | | Turbidity | -3 | | NTU |

| Event: | 3 | Event Start Date: | 9/8/2001 | Event End Date: | 9/20/2001 |
|---------|----|-------------------------------|----------|-----------------|-----------|
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 12 | | mg/L |
| | | Oxidation-Reduction Potential | 219 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | 0.365 | | uS/cm |
| | | Streamflow | 0.44 | | cfs |
| | | Temperature | 13 | | deg C |
| | | Turbidity | 1 | | NTU |

Station: USCTT041

| Event: | 4 | Event Start Date: | 7/24/2001 | Event End Date: | 7/26/2001 |
|---------|----|-------------------------------|-----------|-----------------|-----------|
| Matrix: | SW | | Result | | Units |
| | | Dissolved Oxygen | 8 | | mg/L |
| | | Oxidation-Reduction Potential | 149 | | mV |
| | | pH | 8 | | pH |
| | | Specific Conductance | 0.289 | | uS/cm |
| | | Temperature | 15 | | deg C |
| | | Turbidity | -9 | | NTU |

Station: WVCTT007

| Event: | 1 | Event Start Date: | 5/16/2001 | Event End Date: | 5/18/2001 |
|---------|----|-------------------|-----------|-------------------------------|-------------|
| Matrix: | SW | | | Result | Units |
| | | | | Dissolved Oxygen | 8 mg/L |
| | | | | Oxidation-Reduction Potential | 274 mV |
| | | | | pH | 8 pH |
| | | | | Specific Conductance | 0.417 uS/cm |
| | | | | Streamflow | 0.034 cfs |
| | | | | Temperature | 10 deg C |
| | | | | Turbidity | ND NTU |

| Event: | 2 | Event Start Date: | 6/13/2001 | Event End Date: | 6/16/2001 |
|---------|----|-------------------|-----------|-------------------------------|-------------|
| Matrix: | SW | | | Result | Units |
| | | | | Dissolved Oxygen | 11 mg/L |
| | | | | Oxidation-Reduction Potential | 113 mV |
| | | | | pH | 8 pH |
| | | | | Specific Conductance | 0.337 uS/cm |
| | | | | Streamflow | 0.35 cfs |
| | | | | Temperature | 7 deg C |
| | | | | Turbidity | 0 NTU |

| Event: | 3 | Event Start Date: | 9/8/2001 | Event End Date: | 9/20/2001 |
|---------|----|-------------------|----------|-------------------------------|-------------|
| Matrix: | SW | | | Result | Units |
| | | | | Dissolved Oxygen | 11 mg/L |
| | | | | Oxidation-Reduction Potential | 176 mV |
| | | | | pH | 8 pH |
| | | | | Specific Conductance | 0.308 uS/cm |
| | | | | Streamflow | 0.16 cfs |
| | | | | Temperature | 15 deg C |
| | | | | Turbidity | 3 NTU |