Revised

PROGRESS REPORT
TEMPORARY WATER QUALITY STANDARDS
SECOND 3-YEAR REVIEW CYCLE

NEW WORLD MINING DISTRICT RESPONSE AND RESTORATION PROJECT

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PROGRESS REPORT TEMPORARY WATER QUALITY STANDARDS SECOND 3-YEAR REVIEW CYCLE

NEW WORLD MINING DISTRICT RESPONSE AND RESTORATION PROJECT

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INTRODUCTION

The New World Mining District (District) Response and Restoration Project is a mine waste cleanup project that is being undertaken by the U.S. Department of Agriculture (USDA) Forest Service to mitigate historic mining impacts to human health and the environment. This historic mining district, which is centered about four miles northeast of the northeast gate to Yellowstone National Park, has hard rock mining wastes and acid discharges that contain elevated levels of heavy metals. Surface water quality in area streams is degraded by metal contaminants present in these wastes and discharges, and does not meet State of Montana water quality standards.

Integral to the cleanup of mining-related contamination in the District are provisions provided in the State of Montana Water Quality Act that allow cleanup work to proceed while state water quality standards are exceeded. These are known as temporary water quality standards, and were adopted by the State of Montana Board of Environmental Review (Board) in 1999 for Daisy Creek, Fisher Creek, and a portion of the upper Stillwater River. The Board reviews these standards every three years to determine whether adequate efforts have been made to implement the plans submitted as the basis for the temporary standards. The purpose of this progress report is to present information to support the Board's review of the temporary standards. This is the second 3-year review cycle for the District's temporary standards.

TEMPORARY WATER QUALITY STANDARDS

Under the State of Montana Water Quality Act (§§ 75-5-101 et seq., Montana Code Annotated {MCA}), the state has promulgated regulations to protect, maintain, and improve the quality of surface waters in the state. The State of Montana has classified the streams in the District as B-1. The definition of B-1 is waters that are suitable for drinking, culinary and food processing (after conventional treatment), bathing, swimming and recreation, growth and propagation of salmonid fishes and associated aquatic life, waterfowl and furbearers, and agricultural and industrial water supply. Water quality in portions of the District's streams does not meet B-1 narrative standards and certain water quality criteria specified in Montana Department of Environmental Quality (MDEQ) Circular WQB-7 (MDEQ, 2004), in part due to past mining activities.

The Montana Water Quality Act allows for the adoption of temporary water quality standards for a specific water body or segment in those instances in which substantive information indicates that the water body or segment is not supporting its designated use. On January 22, 1999, the USDA Forest Service submitted a petition to the Board for adoption of temporary water quality standards for Fisher Creek, Daisy Creek, and a portion of the upper Stillwater River. This petition was approved by the Board on June 4, 1999, allowing temporary standards to be adopted for a period of 15 years from the date of approval.

Section 75-5-312 (10), MCA, provides for a 3-year review of temporary standards and the implementation plan. The review includes a public hearing at a regularly scheduled Board meeting that allows opportunity for public comment. The first 3-year review was competed in July 2002, with the Board choosing to take no action at the end of the review process, leaving the temporary standards unchanged.

SUPPORT DOCUMENT AND IMPLEMENTATION PLAN

A Support Document and Implementation Plan was submitted with the petition for temporary standards in January 1999 (Stanley and Maxim, 1998). The Support Document and Implementation Plan fulfilled the requirements of the Montana Water Quality Act (75-5-312) by describing the chemical, biological, and physical condition of the stream segments, existing water quality standards that are not being achieved, temporary modifications to the standards that were requested for the stream segments, existing beneficial uses, designated uses considered attainable in the absence of water quality limiting factors, a description of the proposed actions that will eliminate water quality limiting factors, and a schedule for cleanup. The Support Document and Implementation Plan was revised on May 20, 2003 to update the cleanup schedule presented in the original plan (Maxim, 2003a).

SITE LOCATION AND DESCRIPTION

The New World Mining District falls within the Gallatin and Custer National Forests, and abuts Yellowstone National Park's northeast corner. The Absaroka-Beartooth Wilderness Area bounds the District to the north and east with the southern boundary of the District formed by the Montana-Wyoming state line. The District lies entirely within Park County, Montana (Figure 1).

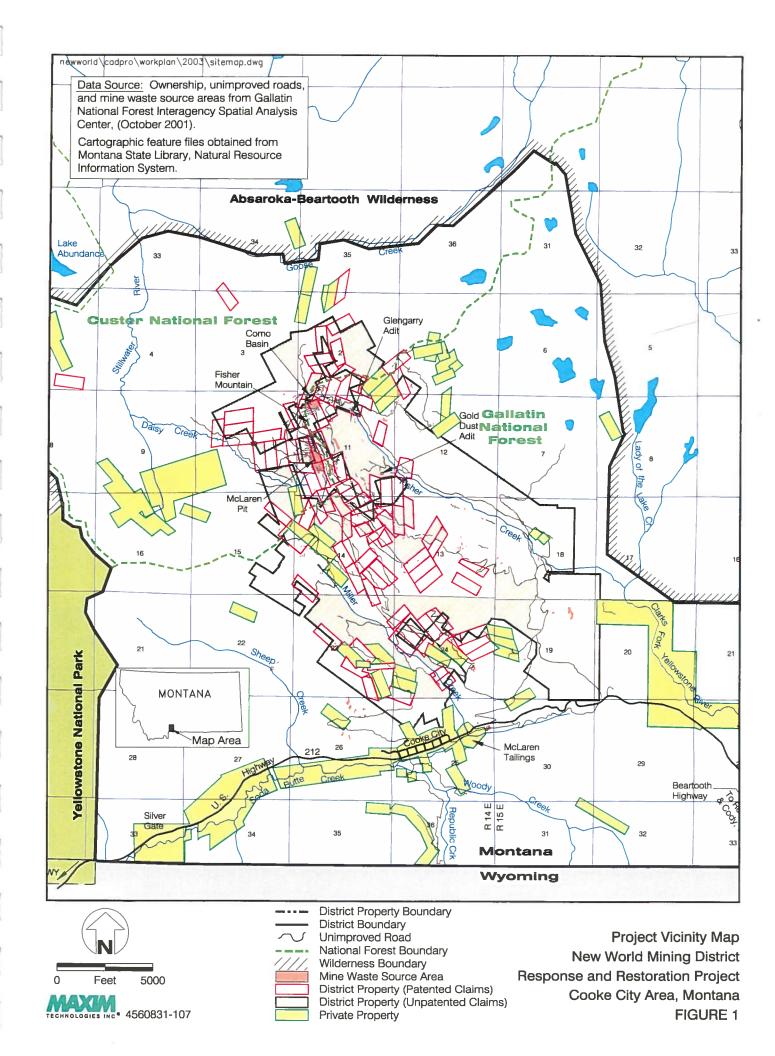
The communities of Cooke City and Silver Gate, Montana are the only population centers near the District. The neighboring communities of Mammoth, Wyoming and Gardiner, Montana are located about 50 miles to the west. Red Lodge, Montana is located about 65 miles to the northeast by way of the Beartooth Highway, and Cody, Wyoming is located 60 miles to the southeast.

The District covers an area of about 25,600 acres. The District includes both District Property and non-District Property, where District Property is defined as all property or interests in property that was relinquished to the United States by Crown Butte Mining, Inc., (CBMI), the former owner of the property, (**Figure I**). Historic mining disturbances affect about 50 acres located on District Property. Mining disturbances on non-District Property include the McLaren Tailings and McLaren Mill Site, which cover an additional 17 acres, and the Great Republic Smelter, which is located in the town of Cooke City and covers 0.5 acres.

The District is located at an elevation that ranges from 7,900 feet to over 10,400 feet above sea level. The site is snow-covered for much of the year. Only one route of travel is open on a year-round basis to Cooke City – the highway between Mammoth and Cooke City. The topography of the District is mountainous with dominant glacial features, and is situated at the headwaters of three river systems that all flow into the Yellowstone River. The three tributaries are the Clark's Fork of the Yellowstone, the Stillwater, and the Lamar. The Lamar River flows through Yellowstone Park. The major tributary streams in the District include Daisy, Miller, Fisher, Goose, Sheep, Lady of the Lake, Republic, Woody, and Soda Butte creeks.

PROJECT BACKGROUND

On August 12, 1996, the United States signed a Settlement Agreement with CBMI to purchase CBMI's interest in its District holdings. This transfer of property to the U.S. government effectively ended CBMI's proposed mine development plans and provided \$22.5 million to cleanup historic mining impacts in the District. In June 1998, all interested parties and CBMI signed a Consent Decree (Decree). The Decree, approved by the United States District Court, finalized the terms of the Agreement and made available the funds that are being used for mine cleanup.



The Forest Service is the lead agency responsible for implementing the cleanup of mining related impacts in the District. Other state and federal agencies are cooperating with the effort, including the U.S. Department of Interior (DOI), the U.S. Environmental Protection Agency (EPA), and MDEQ. As specified in the Decree, the USDA Forest Service is able to use its Superfund authority, which is granted under the Comprehensive Environmental Response, Compensation, and Liability Act (the Superfund enabling law), to proceed with the cleanup. The Superfund law, in concert with guidance provided by the EPA, establishes a process whereby cleanup actions follow specific procedures. The USDA Forest Service is executing the Response and Restoration Project by following the process for Non-Time-Critical Removal Actions (EPA, 1993). Under the Decree, work has to be completed on District Property before beginning work on non-District Property. As funds are available after District Property is cleaned up to the satisfaction of the United States, other mining disturbances in the District may be addressed.

Under Superfund, particulars such as characterizing the nature and extent of pollution, assessing risks, identifying and evaluating cleanup alternatives, and keeping the public informed and involved are part of the cleanup process. Following EPA guidance, the Forest Service custom-tailored this process to address the specific nature of contaminants in the District and the specific nuances of this project. Cleanup activities conducted by the Forest Service began in 1999.

PROBLEM DESCRIPTION

The Forest Service has developed a conceptual model that describes sources of mine wastes in the District and pathways by which metal contaminants move in the environment. This model is based on results of numerous previous investigations into the source and movement of metal contaminants. The conceptual model provides insight into the likely mechanisms that are involved in releasing pollutants into the environment, and the pathways in which humans and the environment are exposed to pollutants.

Major sources of contaminants at the site are acidic, metal-laden mine waste dumps located at mine openings, tailings deposits, and massive sulfide deposits underground that are exposed to the atmosphere by either mine workings or natural fracturing and faulting. These waste sources include over 150 mine dumps on District Property (totaling about 430,000 cubic yards of mine waste), with most contaminants residing at a few large waste sites including the McLaren Pit, Como Basin, and Glengarry Adit. The largest mine waste deposit in the District, the McLaren Tailings, is a non-District Property and is located next to Soda Butte Creek above the town of Cooke City. The Great Republic Smelter, which is also a non-District property, is located on Soda Butte Creek just downstream of town. There are also about 11 mine discharges that produce acidic and/or metal-laden water that exceed aquatic criteria (one of which is on non-District property), as well as numerous acid seeps and springs in the headwaters of Fisher Creek and Daisy Creek.

The primary mechanisms whereby contaminants present in mine wastes move through the environment include the following:

- Erosion
- Contaminants dissolving in rain or snowmelt and infiltrating into the ground or running off into area streams
- Contaminated water moving through underground mine workings and improperly abandoned exploratory borings where sulfide minerals are exposed
- Contaminants in groundwater that discharges into area streams
- Contaminated surface water that recharges underlying groundwater

Except for some of the larger waste dumps, individual contributions of specific mine waste sources via the pathways identified above are difficult to quantify. Work by previous investigators, primarily the U.S. Geological Survey (USGS), has shown that metals loadings in area streams are derived from groundwater inflow, adit discharges, tributary inputs, and leachate from waste dumps (Kimball, et.al., 1999). For example, a study done on Fisher Creek showed that 20% of dissolved copper load in the creek comes from the Glengarry Adit discharge, with 14% attributed to leachate from the Glengarry dump, 21% to tributary input from the Como Basin, and 14% in tributary input from Fisher Mountain. About 30% of the dissolved copper load could not be attributed to any particular source.

Secondary sources of contaminants include stream sediments that have been transported downstream from other sources and metals that precipitate in streambeds when chemical conditions in streams change. As a result of these secondary sources of contaminants, the upper few miles of Daisy Creek and Fisher Creek are impacted by metals-laden sediment.

Risks to humans and animals from mine waste sources are primarily related to direct contact or ingestion of metals contaminants. Because the main sources present on District Property are located away from permanent residents, consumption of groundwater or surface water is not considered a

significant exposure pathway for humans. Although the exposure risk of animals to surface water or consumption of surface water has not been quantified and no site-specific risk assessment is planned, other sources of information on wildlife populations do not indicate that animals are at risk from exposure to mine waste contaminants.

Exposure pathways to aquatic organisms primarily occur in-stream. Aquatic exposure results from contact with or consumption of metals-laden sediment and surface water. Plants that might recolonize waste dumps are exposed to metal contaminants primarily from root uptake. These plants are often weakened or are absent due to chemical conditions in waste materials.

Using the above information as a rough approximation of the potential beneficial effect of response and restoration actions, it is evident that cleanup actions directed at reducing or treating flows from the more substantial adit discharges like the Glengarry Adit should directly result in water quality improvements. This is also true of leachate generated from waste dumps that directly impact surface water. The effect on surface water or groundwater quality resulting from cleanup actions directed at mine waste sources located farther from surface water drainages or in areas where groundwater is deeper is much harder to quantify. Likewise, the effect response or restoration actions may have on other sources, such as stream sediment, is very difficult to quantify. Metals in stream sediment have complicated chemical reactions with surface water and change markedly with varying flows. However, even for these more distant sources, response and restoration actions should have a positive effect on water and sediment quality and monitoring of these environmental media should show improvements over time.

PROJECT ACTIVITIES

Detailed descriptions of projects activities are described in work plans that have been prepared annually for the project since 1999 (Maxim, 1999; 2000; 2001a; 2002a; 2003b; 2004a). Activities that have been conducted to date include the following:

- Established a database management system, catalogued existing information available for the site, evaluated existing information and data; identified and filled data gaps; and developed a suitable base map of the District to support environmental studies, engineering design, and response action construction.
- Recorded the locations and characteristics of mine waste dumps, adits, and stream sediments, and developed a database of site characteristics.
- Ranked mine waste sources according to a modified Hazard Ranking System to aid in the prioritization of sites slated for clean up.
- Identified unrecorded cultural features.
- Improved portions of the Daisy Pass and Lulu Pass roads to accommodate construction traffic.
- Improved a previously constructed surface water diversion around the Como Shaft.
- Evaluated water quality treatment alternatives for acid mine discharges.
- Installed and monitored wells in the McLaren Pit and Como Basin; monitored surface water and groundwater quality District-wide; sampled and analyzed soil and mine wastes throughout the District.
- Completed a repository siting evaluation and collected hydrogeologic data on two prospective repository sites.
- Completed surface water tracer studies on Fisher Creek, Daisy Creek, and Miller Creek to determine surface water inputs of metal contaminants.
- Prepared a Selective Source Response Action Engineering Evaluation and Cost Analysis (EE/CA). In accordance with the preferred alternative identified in this document, removed about 32,700 cubic yards of waste rock and mill tailings (nine percent of the total District waste) from eight mine waste areas and disposed these wastes in an engineered repository. About 4.6 acres of the former waste areas were revegetated in 2001 as part of this response action.
- Prepared a McLaren Pit Response Action EE/CA. In accordance with the preferred alternative identified in this document, consolidated waste rock dumps from the Daisy Creek headwaters area into the McLaren Pit. This waste source accounts for about 67% of the total waste rock volume on District Property. Construction activities were initiated in 2002 with consolidation of waste in the former mine pit, and completed in 2003 with the construction of an impermeable cap over the consolidated wastes.
- Reopened the Glengarry Adit and Como Raise to more fully characterize underground sources of
 water within the mine. Prepared a Como Basin/Glengarry Adit/Fisher Creek Response Action
 EE/CA using the findings found during the reopening work. In an effort to eliminate the discharge
 from the adit, the Como Raise was backfilled and plugged, a fracture in the underground workings
 was grouted closed, several watertight plugs in the workings were installed, and portions of the

workings were backfilled with rock and cement. Construction of this work was begun in 2003 and will be completed in 2005.

- Reopened the McLaren Adit and, as a result of the evaluation of the underground mine workings and water sources within, grouted closed in 2003 a borehole leaking metals-laden water into the underground workings.
- Prepared the Miller Creek Response Action EE/CA and, in accordance with the preferred alternative identified in this document, conducted a Source Controls Removal Action at four mine sites in the Miller Creek drainage in 2004.
- Monitored revegetation at reclaimed sites.
- Initiated preparation of an EE/CA for remaining adit discharges on District Property. The result of the EE/CA, which is expected to be completed in 2005, will be a preferred alternative to address source control/treatment of this contaminant source.

All of the activities listed have been documented in work plans, reports, or technical memoranda and have been issued to MDEQ, EPA, DOI, and the public for review and comment. Most of these documents are available for downloading on the project web site (http://www.fs.fed.us/r I/gallatin), and all are available at three information repositories that have been established for the project. Information repositories are located in Cooke City at the Chamber of Commerce office, in Gardiner at the Forest Service's Gardiner Ranger District office, and in Bozeman at the Gallatin National Forest Supervisor's Office.

RESPONSE ACTION CLEANUP PROJECTS

The original Support Document and Implementation Plan identified 18 Operable Units (OUs) in the District. An OU is defined as a discrete action that comprises an incremental step toward comprehensively addressing site problems. The OUs that contribute the majority of impacts to water quality were identified as the following:

- McLaren Pit
- Glengarry Adit and Shafts
- Spalding Tunnels
- Como Basin
- Gold Dust

The remaining 13 OUs are smaller contributors to water quality degradation, and most were defined in a broader sense rather than as specific sites in the Support Document and Implementation Plan. These broadly defined OUs include many smaller prospects and waste dumps that lie scattered throughout the District. In the Revised Support Document and Implementation Plan, the originally proposed OUs were folded into primarily watershed-based units.

By following the Non-Time-Critical Removal Action process, the Response and Restoration Project utilizes the EE/CA procedure to identify, scope, and evaluate cleanup alternatives that can address specific mining-related risks and impacts. Preparing an EE/CA involves taking a comprehensive look at site characteristics and human health and environmental risks, and then follows an established process of screening relevant response options, developing response alternatives, and evaluating alternatives in detail. The detailed analysis of alternatives weighs the expected results of an alternative against seven criteria. After weighing the pros and cons of a number of alternatives, the Forest Service selects a preferred alternative and issues the EE/CA to MDEQ, EPA, and DOI for review and comment. Comments received from these agencies are considered, and the revised EE/CA is submitted to the public to solicit comments. Significant comments received on the public draft of the EE/CA are addressed in a Final EE/CA, and a decision document, called an Action Memorandum, is issued.

There have been four EE/CAs written for the project to date, with another EE/CA in progress. Four decision documents have been written and signed, and construction initiated or completed on four response actions. A brief summary of each of the response actions conducted to date is presented below.

SELECTIVE SOURCE RESPONSE ACTION

Using a hazard ranking system to rank all the sites in the District, source area characteristics were appraised and an initial cleanup project was proposed in 1999. The first draft of the Selective Source Response Action EE/CA, which targeted removal of eight waste dumps impacting surface water in the Fisher Creek headwaters, was written, and the preferred alternative, waste removal to a repository site on National Forest System lands near the Lulu Pass road, was selected. As a result of public comment, the 1999 cleanup work was delayed so that more groundwater quality and flow information could be collected at the repository site.

Following an additional year of collecting data at the repository site, the Selective Source Response Action EE/CA was re-released to the public in 2000, and the preferred alternative re-selected (Maxim, 2001b). An engineering design package was prepared in the fall of 2000 which detailed reclamation plans

for the selected sites, and presented plans and specifications for construction of a repository with a bottom liner, leachate collection system, and a double-lined capping system.

The Selective Source Response Action was initiated in 2001 and completed in 2002. This initial cleanup project involved removing approximately 32,000 cubic yards of mine waste rock and mill tailings from eight mine waste areas, disposing of these wastes in the Selective Source repository, and revegetating about 4.6 acres of the former waste areas. The waste areas cleaned up and the volume of waste permanently disposed represent about 9% of the area and 8% of the waste affecting District Property.

The major components of repository construction involved development of a rock quarry, construction of a 15,700 cubic yard rock toe buttress, installation of a 2.5 acre bottom liner system with toe drains and sump, and installation of temporary and permanent cover systems. Due to difficulties involved with construction and the short construction season, temporary measures used to winterize the construction site in 2001 could not prevent spring runoff from wetting the waste placed in the repository, which resulted in the repository sump filling with water in the spring of 2002. Measures were taken in 2002 to correct the problems associated with the temporary closure, but, while these measures considerably reduced the amount of water that leaks into the repository, saturated soil conditions that occur during spring runoff cause water to enter the repository each year. Water that accumulates in the sump is actively managed, with accumulated waster currently being disposed at the Cody, Wyoming, sewage treatment lagoon (about 120,000 gallons since 2002). With the permanent closure of the repository in 2005/2006, water that accumulates in the sump is expected to diminish to near zero as moisture in the repository waste reaches equilibrium.

Water quality improvements have been realized in tributaries draining the former waste areas, although these improvements when measured in Fisher Creek and Soda Butte Creek are relatively minor compared to the cleanup work that has been completed or proposed for the major source areas in these two drainages.

McLaren PIT Response Action

Planning and preparation for the McLaren Pit Response Action began in 1999. A considerable amount of environmental and engineering data was needed and subsequently collected during the 2000 field season. The USGS, working with the USDA Forest Service, conducted an ionic tracer study of metals loading in Daisy Creek in 2000, and the Forest Service collected data in the McLaren Pit that would support preparation of an EE/CA. Hydrologic and metals loading models were completed with these data, indicating that the McLaren Pit contributed from 20% to 50% of the metals load in Daisy Creek. With the results of these studies substantially complete in the fall of 2000, a draft of the McLaren Pit Response Action EE/CA was prepared and submitted to the public in May 2001 (Maxim, 2001c).

The preferred alternative for the McLaren Pit Response Action was consolidation of waste rock from dumps in the Daisy Creek headwaters into the McLaren Pit, and covering the consolidated wastes with an impermeable cap. This waste source covers about 10 acres and accounts for about 67% of the total waste rock volume on District Property. Waste dumps consolidated into the pit included the McLaren Pit spoils (wastes located below the county road and west of the pit) and the multicolor dump. About 24,000 cubic yards of waste rock are contained in the two dumps, which cover about 3.5 acres of disturbance.

An engineering design and construction package for the McLaren Pit response action was completed in March 2002, and a construction contractor, URS, selected to do the work. Construction involved

capping about I I acres of the pit with a geomembrane liner, covering the liner with a drainage layer and soil, and constructing runon and runoff channels to convey water off and away from the capped wastes. Construction began in July 2002 with consolidation of waste rock from the edges of the pit, regrading of the waste to prepare for construction of the multi-layered cap, and construction of runoff and runon ditches and channels. In 2003, the multi-layered cap was completed.

Water quality data collected in 2004 indicate that improvements in surface water quality resulting from capping could be measured during high flows experienced during the snowmelt period, although these improvements in water quality did not persist into winter or fall low flow periods. Monitoring of groundwater downgradient of the capped area indicated that groundwater conditions in 2004 were similar to those present before the cap was constructed. However, it is hypothesized that the cap did eliminate the annual flushing of metal salts from the waste rock, and that this change should reduce metal loads and concentrations downgradient of the pit in the near future.

GLENGARRY/COMO BASIN/FISHER CREEK RESPONSE ACTION

The Glengarry Mine has been targeted for rehabilitation since the inception of the Response and Restoration Project because it is one of the principal sources of metals loading in the headwaters of Fisher Creek. The mine historically discharged 23 to 57 gallons per minute (gpm) of low pH, iron-, zincand copper-bearing water directly into Fisher Creek.

The Glengarry Mine consists of 3,060 feet of drifting and two nearly vertical raises. One of the raises extends 425 feet upward and surfaces in the Como Basin at the foot of the north flank of Fisher Mountain. The top of this raise passes through the Meagher Limestone formation, and a massive sulfide deposit hosted in the Meagher.

In September and October 2000, the Glengarry was reopened for assessment purposes. During this first phase assessment, accumulated debris and precipitated iron mud two to five feet deep were removed from the underground workings beginning at the portal and extending back to a "Y" intersection 1,540 feet in from the portal. The two branches of the "Y" were made accessible, but debris and mud were not removed past the "Y" intersection. The following year, the second raise was reopened from the surface in the Como Basin and repaired down to a point well below the base of the Meagher Limestone. Three separate short horizontal workings were encountered in the raise in the Meagher Limestone at 35, 75, and 100 feet below the surface. At the first raise, debris was removed and temporary ladders were installed to determine the nature of the raise above a timbered bulkhead at the top of the raise 50 feet above the level of the drift. However, removing this bulkhead was considered too dangerous so no further reopening work was conducted in the first raise.

Using a detailed water sampling program within the Glengarry drift and the Como Raise, major inflows of water and metals loads were identified. Water flowing into the Glengarry comes from essentially three point sources and one diffuse source. The point sources are the Como Raise, the first raise, and a roof leak located 1,050 feet from the adit portal. Diffuse roof leaks were observed primarily in the first 1,200 feet in porphyritic rock. Load analysis showed that the vast majority of metals loading into the adit could be attributed to the raises and the 1050 roof leak, with the primary source of copper being the Como Raise. The 1050 roof leak contributed more arsenic, aluminum, and cadmium load than the raises, although roughly equal loads of iron, lead, and zinc were attributed to the raises and the 1050 roof leak.

A Draft EE/CA was released to the public in June 2002 that evaluated response action alternatives to address mining impacts from mining-related sources in Fischer Creek, including the Glengarry Adit, the Como Basin, and remaining mine waste dumps in the Fisher Creek drainage (Maxim, 2002b). The EE/CA was structured around each of these three source areas, with source-specific response action alternatives developed for each. The preferred alternative selected in the EE/CA was a combination of several alternatives that addressed each source area.

For the Glengarry Adit, the preferred alternative was selected to eliminate the adit discharge at the portal. This alternative included grouting and backfilling the Como raise, grouting the 1050 roof leak, installing several water tight plugs in the main drift, and partially backfilling the drift. For the Como Basin (the second source area), the preferred alternative involved capping unconsolidated and disturbed materials in the basin with an impermeable geomembrane capping system similar to that constructed in the McLaren Pit. For the soil cover over the impermeable liner, soil will be salvaged from the capped area and amended with lime to make the soil suitable for revegetation. The preferred alternative for remaining mine dumps in the Fisher Creek drainage involved removing the two largest waste rock dumps (the Glengarry and Gold Dust) to the Selective Source Repository, and implementing run-on and runoff controls at dumps that were identified as posing potential sediment and erosion hazards.

Work on the preferred alternative for the Glengarry/Como Basin/Fisher Creek sources was initiated in 2003 in the Glengarry Adit and involved grouting the Como Raise and the 1050 roof leak, and preparing the plug sites. Plugging and backfilling the Glengarry will be completed in 2005. Construction of the cap in the Como Basin, removing the Glengarry and Gold Dust dumps, and expansion of the repository will begin in 2005 and is expected to be completed by 2006. Implementing runon and runoff controls at selected dumps in Fisher Creek was completed as a separate project in 2004. Water quality improvements that result from these response actions should be seen as early as 2005 when the Glengarry closure is complete, but the full impact of these actions on water quality will not be evident for several years following capping of the Como Basin.

MILLER CREEK RESPONSE ACTION

A Draft EE/CA for sources located on District Property in the Miller Creek drainage was completed in June 2003 (Maxim, 2004b). This EE/CA evaluated response options and technologies to mitigate potential impacts from mine waste areas that contribute to surface water quality degradation in the Miller Creek drainage. The preferred alternative selected in the EE/CA for Miller Creek was removal of two of the larger dumps in the drainage to the Selective Source Repository, and implementing surface water controls at four dumps where surface water is in contact with waste dump materials. The other mine waste dumps not included in the preferred alternative did not significantly impact water quality.

The dumps planned for removal in the Miller Creek Response Action are the Black Warrior and Little Daisy. The Black Warrior dump was the only mine waste deposit in the Miller Creek drainage that presented a human health risk, and contains about 22% of the total mine waste on District Property in the drainage. At the Little Daisy Mine, waste rock sits at the mouth of the adit, and discharge from the adit flows through the dump. While impacts to groundwater or surface water from this dump could not be demonstrated, removal of the Little Daisy dump is prudent because infiltration of water through waste materials is identified as a major pathway for contaminant movement in the conceptual model developed for the site. Removing these two dumps from the watershed eliminates 46% of the total volume of waste present in Miller Creek.

In addition to alternatives related to mine waste dumps in the Miller Creek drainage, the Miller Creek EE/CA examined restoration actions to respond to impacts to natural resources. The major impact to natural resources is related to sediment contamination derived from roadways throughout the District. Areas of known and potential acid production and other areas of anomalous metal concentrations in soil and bedrock represent significant sources of contamination that are exacerbated by surface disturbances such as roads that expose these materials to ongoing erosion. Many roads that cross these areas were historically developed to access the numerous mines and prospects in the District. Sediments derived from roads impact surface water quality as well as aquatic habitat, and reducing sediment derived from roads will improve water quality. About 28 miles of road will be treated as a part of the Miller Creek Response Action, including reconstruction of the Lake Abundance road, which provides access to the lake from Daisy Creek.

ADIT DISCHARGE RESPONSE ACTION

Response Actions associated with adit discharges in the District will be evaluated in a separate EE/CA in 2005. There are 24 discharging adits in the District, of which about 11 produce acidic and/or metalladen water that exceed aquatic criteria. The likely response actions that would treat or eliminate these discharges are similar. The EE/CA will address risks to water quality from adit discharges by analyzing potential treatment scenarios and resulting load reductions that might be realized. The result of the EE/CA will be a preferred alternative(s) to address impacts from these discharges to water quality.

The Forest Service initially examined feasible water quality treatment alternatives for adit discharges in 1999, identifying one potential passive treatment approach that may be applicable to these mine discharge sources. This approach involves building a treatment cell filled with organic and nutrient substrates, burying the cell to eliminate oxygen, and routing mine drainage through the buried cell. The USDA Forest Service is also evaluating grouting technologies in two adits, the McLaren and the Gold Dust, as a means of source control similar to the Glengarry closure. Both of these adits contain exploratory boreholes that discharge water to the underground workings. At the McLaren Adit, one borehole located about 366 feet in from the portal contributed more than 70% of the copper load measured in the discharge at the portal. This borehole was grouted in 2003, completely eliminating flow from the borehole. Several boreholes present in the Gold Dust workings will be grouted in 2005 to determine how effective this technology might be in reducing the adit flow and associated metals loading.

CLEANUP SCHEDULE

Table I shows the cleanup schedule for past work and work planned for the remaining years of the project. The first year of actual cleanup work was 2001. As shown in the table, project work on District Property is expected to be completed by 2006 with monitoring continuing in 2007 and subsequent years. Remaining work on Non-District Property (Table I) is contingent on receipt of a Certificate of Completion from the United States and the State of Montana, as well as availability of funding for cleanup. The schedule presented in Table I may require modification as the project proceeds, as the schedule may be affected by a variety of factors including, but not limited to, weather conditions, availability of materials, equipment, and/or supplies, contract administration delays, or contract appeals. A delay on one project in one year may also lead to delays in other projects shown in Table I, as most of the cleanup activities planned for future years are either contingent upon the completion of other cleanup activities or have to be done in conjunction with other cleanup activities.

TABLE I CLEANUP SCHEDULE New World Mining District Response and Restoratio

YEAR	PROJECT	NOTES
2001		
2001	Selective Source Response Action	Removal of waste from 8 sites
2002	McLaren initial year	Waste rock consolidation and construction of drainage controls
	Monitoring and Maintenance	Surface water, groundwater, revegetation; Selective Source Repository sump repair
	McLaren second year	Complete waste regrading; construct capping system
2003	Glengarry Adit initial year	Grout Como Raise; prepare Glengarry tunnel for grouting and backfilling
	Monitoring and Maintenance	Surface water, groundwater, revegetation; as necessary maintenance
	Glengarry Adit second year	Backfill Glengarry Tunnel; install cemented fill
2021	Fisher Creek Source Controls	Regrade/revegetate waste dumps at 8 sites
2004	Miller Creek Source Controls	Regrade/amend/reveg waste dumps at 4 sites
	Monitoring and Maintenance	Surface water, groundwater, revegetation; as necessary maintenance
	Glengarry Adit third year	Install remaining plugs and cement backfill
	Como Basin Cap and Cover	Cap and cover disturbed and metals-enriched so materials in-situ
	Lulu Pass Road Reclamation	To be done in conjunction with Como Basin Response Action
	Fisher Creek Dump Removals	Glengarry and Gold Dust dumps
2005/2006	Miller Creek Dump Removals	Black Warrior and Little Daisy dumps
	McLaren Mill Site Removal	National Forest System Land only (cleanup funds outside Consent Decree)
	Republic Smelter Removal	National Forest System Land only (cleanup funds outside Consent Decree)
	Selective Source Repository Expansion	Fisher and Miller Creek dump removals
	District-Wide Monitoring and Maintenance	Surface water, groundwater, revegetation; as necessary maintenance
	Restoration, Road Work in Miller Creek	Preferred alternative from Miller Creek EE/CA
2007	Adit Discharge Response Action	Preferred Removal Alternative for 24 remaining discharging adits in the District
	District-Wide Monitoring and Maintenance	Surface water, groundwater, revegetation; as necessary maintenance
ontingent on ompletion of District operty Work	Remaining Non-District Property	Response Actions following Certificate of Completion

WATER QUALITY STATUS

Temporary standards were determined in the Support Document and Implementation Plan by calculating the mean and standard deviation for each parameter, and then adding two standard deviations from the mean. Temporary standards were determined numerically at three sampling stations in the District (CFY-2 on Fisher Creek, DC-5 on Daisy Creek, and SW-7 on the Stillwater River) in the rule adopted by the Board. All data collected from 1989 through 1998 were used in the calculation. Figure 2 shows the location of long-term water quality monitoring stations established in the Support Document and Implementation Plan.

Numeric temporary water quality standards approved by the Board are presented in Table 2 compared to the most recent water quality data measured in October 2004. In general, concentrations measured in October 2004 (low flow conditions) were considerably lower than the temporary standard. More discussion on water quality conditions compared to standards is presented in this section.

TABLE 2 2004 DATA COMPARED TO TEMPORARY STANDARDS FOR FISHER CREEK, DAISY CREEK, AND PORTIONS OF THE STILLWATER RIVER

New World Mining District Response and Restoration Project

	То	tal Recovera	ble Concenti	ation in micr	ograms per li	ter (except i	oH)
Parameter	B-I Chronic	Fisher	Creek Y-2)	Daisy	Creek C-5)	Stillwat	er River V-7)
	Standard*	Temp. Standard	Oct. 2004	Temp. Standard	Oct. 2004	Temp. Standard	Oct. 2004
Aluminum	87**	470	80	9,510	1,900	670	80
Cadmium	0.16		0.1	4	0.7		< 0.1
Copper	5.16	110	20	3,530	510	200	20
Iron	1,000	750	40	6,830	2,130	1,320	170
Lead	1.3	2	<	••	<	13	<
Manganese		82	10	1,710	330	86	38
Zinc	67	44	30	540	110	49	< 10
рН (s.u.)***		> 5.7	7.3	> 4.6	7.7	> 5.5	7.7

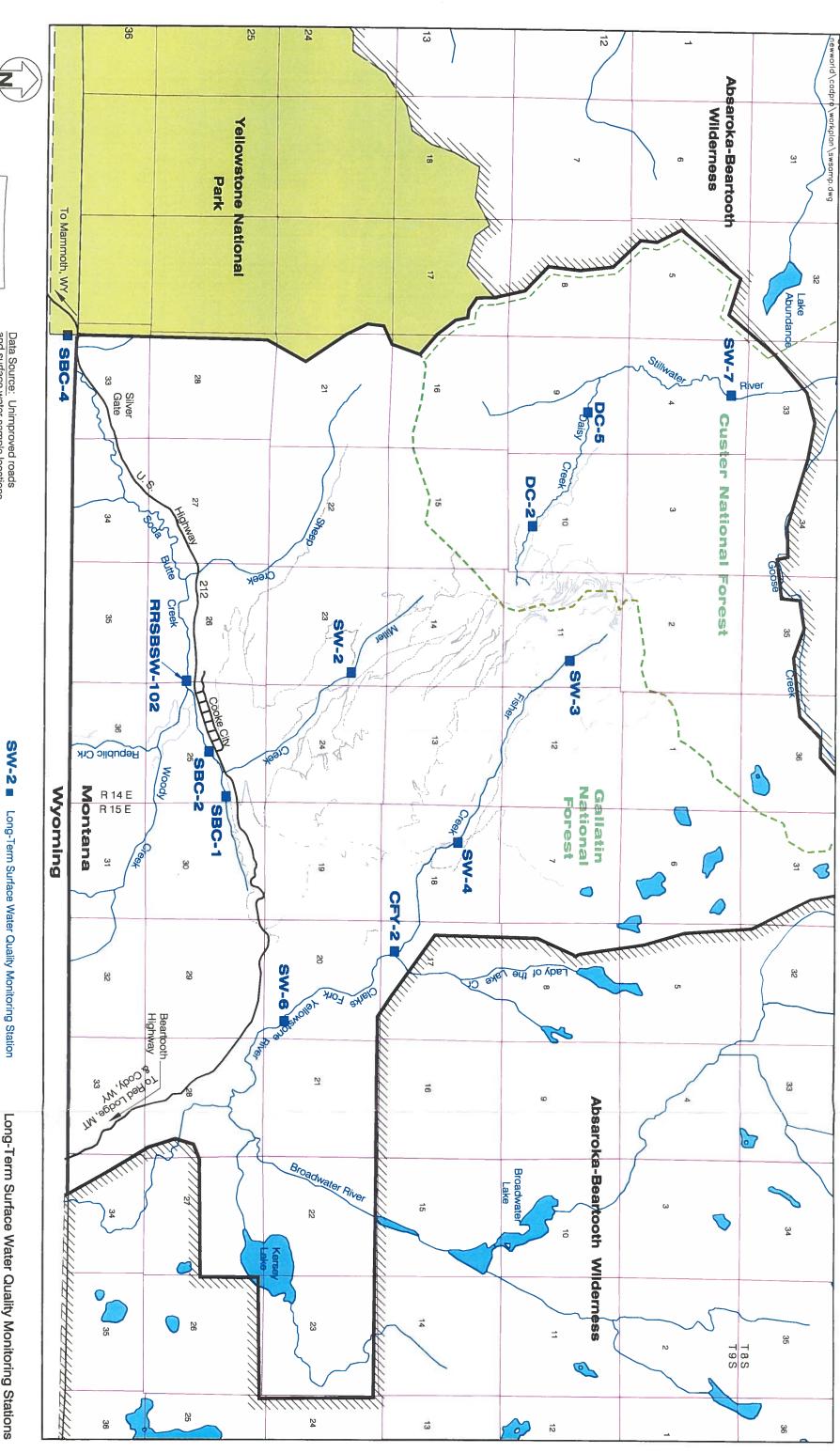
Notes:

- indicates standard adjusted for hardness of 50 milligrams per liter where appropriate; -- indicates not applicable
- Aluminum B-I chronic standard is applied to dissolved analyses in pH range of 6.5 to 9.0 s.u. only

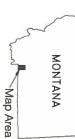
s.u. = standard units

SUMMARY STATISTICS

Appendix A, Table A-I lists all the data collected at the long-term monitoring stations in the District since 1989. Summary statistics (mean, standard deviation, minimum, and maximum) for three groups of data are shown: pre-1999 data (yellow color band); all data (1989 through 2004; gray color band); and, 1999 to 2004 (light blue color band). For these summary statistics, parameters that were not detected above the practical quantitation limit (PQL) or method detection limit (MDL) were estimated by dividing the PQL or MDL in half. Narrative standards apply at the other long-term stations monitored in the



MAXIM 9902245 Feet



4000

Data Source: Unimproved roads and surface water sample locations from Gallatin National Forest Cartographic feature files obtained from Montana State Library, Natural Resource Information System. Interagency Spatial Analysis Center

SW-2

National Forest Boundary District Boundary Unimproved Road

Wilderness Boundary

Long-Term Surface Water Quality Monitoring Stations

New World Mining District Response and Restoration Project Cooke City Area, Montana

FIGURE 2

three stream segments where temporary standards apply (DC-2 in Daisy Creek, SW-3 and SW-4 in Fisher Creek, and SW-6 in the Clarks Fork of the Yellowstone River), and are calculated in the same manner as the numeric temporary standards.

Review of Table A-I shows that, except at Station SW-3, the mean and standard deviation calculated for the most recently collected water quality data (blue shading) for most parameters have decreased compared to the mean for the pre-1999 data (yellow band). This general observation indicates that both the range in contaminant concentration and contaminant concentrations are decreasing. While this general observation is encouraging, water quality data are sensitive to a wide variety of environmental factors that could influence the changes in concentrations seen over the past few years, including changes in the timing and amount of precipitation, the timing and methods used to collect water samples, and diurnal variations in water quality. A statistical evaluation of these and future monitoring data using non-parametric methods and accounting for seasonality is planned for the near future to determine if statistically significant improvement in water quality has occurred since cleanup began.

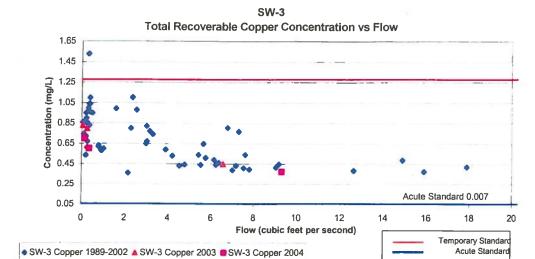
A discussion of water quality data for each of the stream segments is presented in the following sections. Water quality data presented in **Table A-I** is shown graphically on **Figures 3 through 9** for copper, iron, and zinc. These three metals were selected for graphical presentation in this progress report as these metals represent the most robust of the parameters in depicting changes in water quality. The scatter plot graphs are similar for all stations with the concentration of the metal shown on the Y-axis and flow in cubic feet per second (cfs) shown on the X-axis. The scales for both concentration and flow may be logarithmic or linear, depending on which scale best exhibits the range in values for each parameter. Also plotted on the figures are the temporary, acute, and chronic standards that apply at each station, with the standards for copper and zinc adjusted for station-specific hardness values.

FISHER CREEK WATER QUALITY

Figures 3, 4, 5, and 6 show copper, iron, and zinc concentrations for each of the Fisher Creek long-term monitoring stations. For the Fisher Creek graphs, three different data sets are plotted: 1989 to 2002; 2003; and 2004. The 2003 and 2004 data are shown separately so that these data can be easily compared to data collected during the previous years of the project when little if any cleanup work had been done. Although several waste dumps were removed from the Fisher Creek drainage in 2001, the most important cleanup work in Fisher Creek, closure of the Glengarry Adit and capping of soil in the Como Basin, wasn't begun until 2003 and won't be completed until 2006.

At Station SW-3, the graphs show that metals concentrations are higher during the lowest flows measured and are much lower during higher flow events (Figure 3). The lowest concentrations of copper measured at this station since 1989 were in May 1998 (0.361 mg/L) and June 2004 (0.37 mg/L). When compared to equivalent flow periods, 2004 concentrations of copper were all lower than 2003 concentrations. However, water at SW-3 far exceeds even the acute water quality standard for copper at all times, and exceeds the zinc acute/chronic aquatic standard during low flow periods, which occur the majority of the year. Referring to Table A-I, aluminum, cadmium, and lead also exceeded acute or chronic aquatic life standards at Station SW-3 during 2004 sampling events.

At Station SW-4, water quality changes remarkably from Station SW-3, with the pH increasing from very acidic at Station SW-3 to neutral at Station SW-4 (**Table A-1**). Copper and zinc concentrations do not vary as much with flow at this station, but iron concentrations increase significantly as flow increases (**Figure 4**). Aquatic standards for iron and zinc are being met at this station some of the time,



SW-3 Total Recoverable Iron Concentration vs Flow 14 12 Concentration (mg/L) 10 8 6 2 0 0 2 8 6 10 12 14 16 20 Flow (cubic feet per second) Temporary Standard SW-3 Iron 1989-2002 ▲SW-3 Iron 2003 SW-3 Iron 2004 Chronic Standard

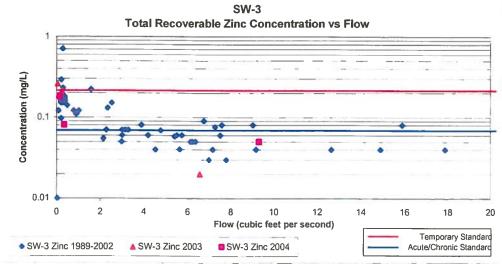
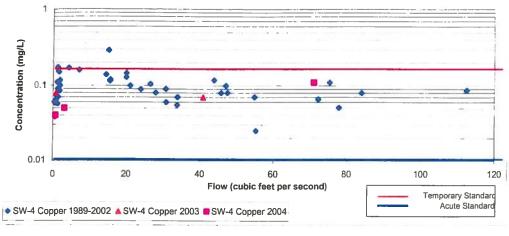


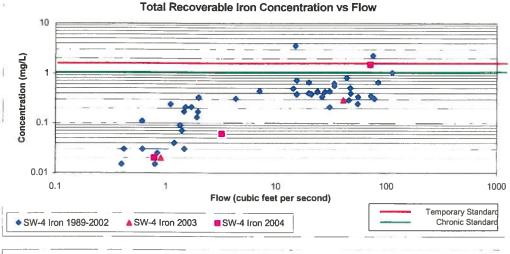
Figure 3 - Concentration vs. Flow Graphs for Station SW-3

SW-4
Total Recoverable Copper Concentration vs Flow



SW-4

able Iron Concentration vs Flow



SW-4
Total Recoverable Zinc Concentration vs Flow

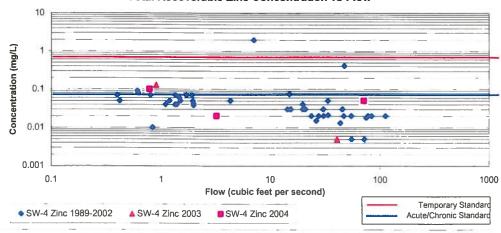
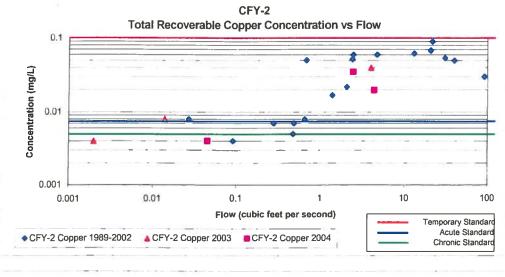
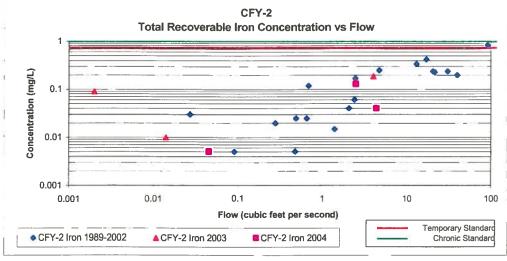


Figure 4 - Concentration vs. Flow Graphs for Station SW-4





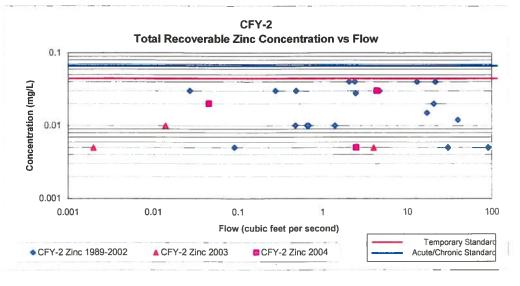


Figure 5 - Concentration vs. Flow Graphs for Station CFY-2

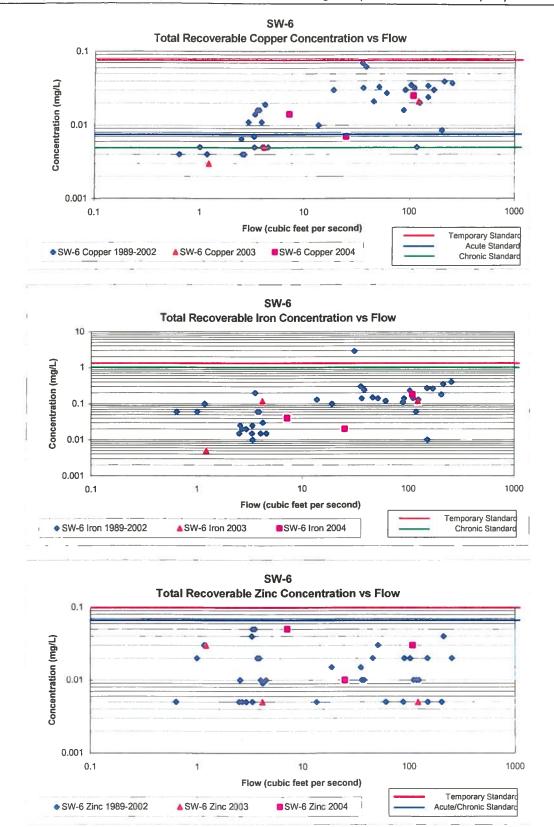


Figure 6 - Concentration vs. Flow Graphs for Station SW-6

although copper concentrations were as much as 10 times higher than the acute aquatic standard in both 2003 and 2004. **Table A-I** shows that aluminum, cadmium, and lead also exceeded acute or chronic aquatic life standards in at least one of the three 2004 monitoring events.

Water quality in Fisher Creek improves markedly at downstream stations CFY-2 (**Figure 5**) and SW-6 (**Figure 6**). In 2003 and 2004, iron and zinc concentrations were lower than the aquatic standards at both stations, and copper concentrations were lower than the chronic aquatic standard at Station CFY-2 in April. For iron and copper, concentrations tend to increase as flow increases at both stations. At stations CFY-2 and SW-6, aluminum also exceeded the chronic aquatic life standard during one of the three 2004 monitoring events (**Table A-I**), and copper exceeded the acute standard at both stations during two of the three 2004 events.

DAISY CREEK WATER QUALITY

For the Daisy Creek graphs (**Figures 7 and 8**), two different data sets are plotted: 1989 to 2003 and 2004. The 2004 data are shown separately so that these data can be compared to data collected before the McLaren Pit cap was constructed. Copper, iron, and zinc concentrations measured in samples collected from the two Daisy Creek stations (Stations DC-2 and DC-5) in 2004 were below both temporary and narrative water quality standards (**Figures 7 and 8**). However, the acute and/or chronic standards for copper, iron, and zinc were exceeded at both stations in 2004.

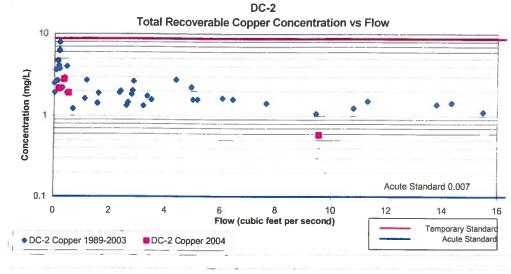
At station DC-2, water quality is poor and strongly acidic in April and October. In June, however, the pH of water sampled at this station was near-neutral (**Table A-I**), and the concentrations of copper, iron, and zinc were the lowest measured at this station during the period of record. This condition is attributed to the emplacement of the McLaren Pit cap, which was completed in October 2003. It is hypothesized that by emplacing the cap, snowmelt could no longer infiltrate through the waste, and instead ran off of the cap in a very short period of time. This flow diluted the concentrations measured at Station DC-2. Also, the cap and cover system also served to prevent erosion of waste rock from the pit, as occurred in previous years. The substantial reduction in concentration observed in June is especially notable for copper, where the measured concentration of 0.58 mg/L was 34% lower than the lowest concentration previously measured of 0.876 mg/L in July 1997 (**Table A-I**).

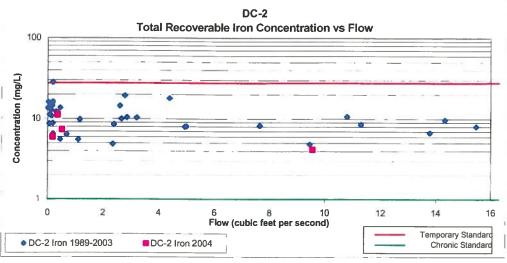
Water quality at Station DC-2 exceeded standards for the following constituents: aluminum, cadmium, and copper exceeded acute or chronic aquatic life standards in all three 2004 monitoring events; lead exceeded the chronic aquatic life standard in April 2004; zinc exceeded the acute aquatic life standard in April and October 2004; and, human health criteria for copper, iron, and manganese were exceeded for most samples collected in 2004.

At station DC-5, pH of the water increases notably from that measured at station DC-2, and total recoverable trace metal concentrations are considerably lower. However, as at station DC-2, aluminum and copper exceeded acute or chronic aquatic life standards in all three 2004 monitoring events at station DC-5. In addition, cadmium exceeded the chronic aquatic life standard in April and October 2004, and zinc exceeded the acute aquatic life standard in April. Iron and manganese also exceeded human health guidelines in all three 2004 monitoring events.

STILLWATER RIVER WATER QUALITY

As for the Daisy Creek graphs, two different data sets are plotted in Figure 9 for data collected at Station SW-7 on the Stillwater River: 1989 to 2003 and 2004. Station SW-7 is located about 3.7 miles





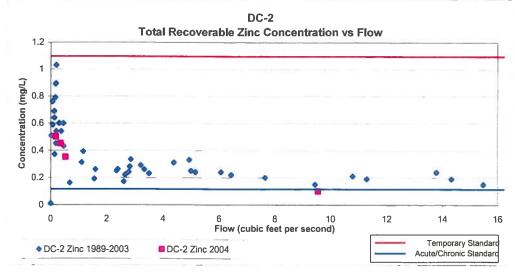
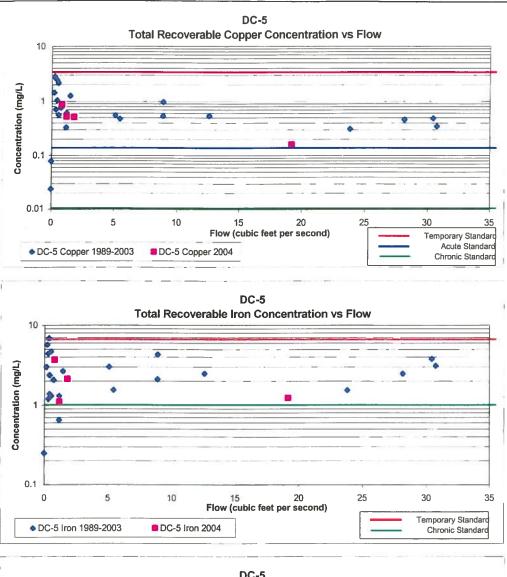


Figure 7 - Concentration vs Flow Graphs for Station DC-2



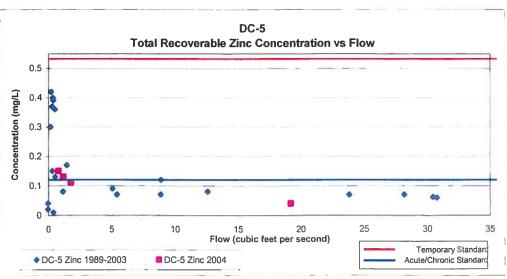


Figure 8 - Concentration vs. Flow Graphs for Station DC-5

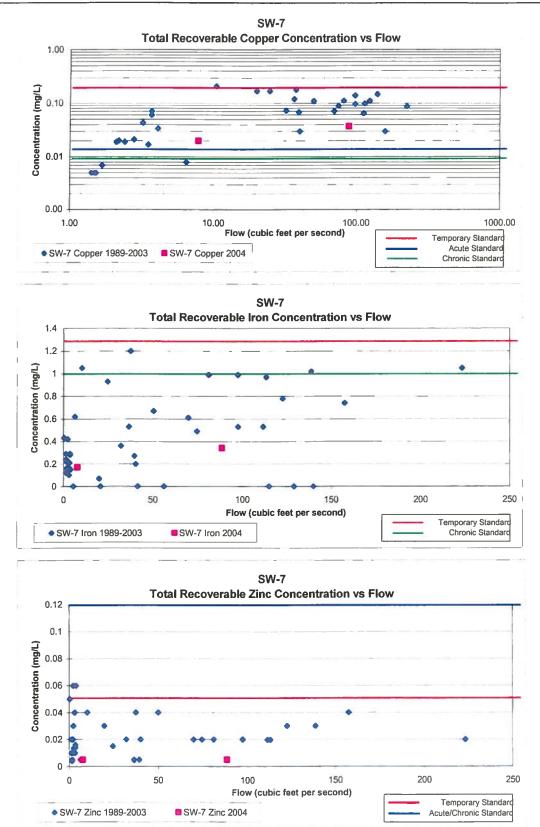


Figure 9 - Concentration vs. Flow Graphs for Station SW-7

downstream of the McLaren Pit (Figure 2). No temporary standards have been exceeded at this station since the standards became effective in 1999. Zinc concentrations have been lower than the acute/chronic aquatic standard at Station SW-7 since monitoring began in 1990, and iron concentrations have been lower than the chronic aquatic standard since the early '90s (Table A-1).

While all parameter concentrations are below standards during some flow events at Station SW-7, including, most recently, in April 2004, exceedances of total recoverable concentrations of aluminum and copper are still measured each year (**Table A-I**). In an effort to determine whether these exceedances were related to suspended or dissolved solids, dissolved analysis were conducted on water samples collected in 2004 by filtering the samples through a 0.45 micron filter. For all trace metals analyzed, dissolved constituent concentrations were below acute and/or chronic aquatic standards for all three 2004 sampling events. This result indicates that exceedances of aluminum and copper standards in the total recoverable analyses are likely caused by suspended solids (sediment) present in the water samples.

SUMMARY

The USDA Forest Service believes that the temporary standards are an important element in proceeding with cleanup of historic mining impacts in the District; therefore, no adjustment in the temporary standards is proposed or recommended as a result of this 3-Year review of the temporary water quality standards. The rule adopting temporary standards in portions of Fisher Creek, Daisy Creek, and the Stillwater River has allowed the New World Response and Restoration Project to proceed with site characterization and cleanup actions. Multiple cleanup actions have been completed and several cleanup actions are scheduled for the next two years. Water quality improvements are beginning to be realized at the farthest downstream stations on the three stream segments, and additional water quality improvements are expected to be measured in the near future.

Biological impairment of Fisher Creek, Daisy Creek, and the headwaters of the Stillwater River are not believed to have changed since the filing of the Support Document and Implementation Plan. Biological monitoring (macroinvertebrate and fisheries) will be done in the near future following completion of the Glengarry Adit/Como Basin/Fisher Creek Response Action and after post-construction conditions in the McLaren Pit area have a chance to equilibrate with the new hydrologic regime imposed by the impermeable cap. Biological monitoring will be used in addition to water quality data to determine if response action cleanups have improved conditions for aquatic life populations.

There are no known or simple solutions to the water quality problems at the New World site. Potential improvements from standard of practice reclamation techniques such as revegetation, capping, water diversion, erosion control, and portal plugging will take several years to complete and at least several years of operation before achieving the maximum effect. Potential water treatment technologies that may be implemented following a detailed evaluation in the Adit Discharge EE/CA will also require time to both implement and operate before treatment effects will be seen. At this time, it is not certain that any of these actions would by themselves, or in combination with other actions, eliminate all of the existing water quality limiting factors. The existence of natural acid drainage, combined with high levels of mineralization, exacerbates the situation by providing natural water inflow high in metal concentrations to both surface and groundwater. This natural condition may limit water quality, even in the absence of historic mining activities.

May 2005

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Progress Report - Second 3-Year Temporary Standards Review

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- Stanley and Maxim Technologies, Inc., 1998. Support Document and Implementation Plan. Submitted by Crown Butte Mines, Inc. in Support of Its Petition for Temporary Modification of Water Quality Standards for Selected Parameters for Fisher and Daisy Creeks and a Headwater Segment of the Stillwater River, Park County, Montana.

APPENDIX A

TABLE A-I

Progress Report - Second 3-Year Temporary Standards Review New World Mining District Response and Restoration Project

Chronic Standard (for Hardness = 50 mg/l) Acute Standard (for Hardness = 50 mg/l) CFY-2 08/09/90 Hydrometrics Data CFY-2 06/05/91 Hydrometrics Data CFY-2 07/09/91 Hydrometrics Data CFY-2 07/23/93 Hydrometrics Data CFY-2 09/13/93 Hydrometrics Data CFY-2 09/13/99 Maxim CFY-2 09/12/99 Maxim CFY-2 09/12/101 Maxim CFY-2 10/19/00 Maxim CFY-2 10/19/00 Maxim CFY-2 06/15/01 Maxim CFY-2 10/19/10 Maxim CFY-2	50 mg/l) SO mg/l) So Data	0.69 91.6 4.7 2.4 17.03 2.46 39.63 0.091 2.071 2.071 2.071 0.658 0.058 0.058 0.058 0.058	6.8 6.9 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	0.087 0.75 0.15 0.15 0.13 0.13 0.14 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15	0.15 0.34 0.0050 × 0.0050 × 0.0050 × 0.0050 × 0.0050 × 0.0010 × 0.0010 ×	0.00010 0.00020 0.00020 0.00020 0.00020 0.00010 0.00010 0.00010 0.00010 0.00010 0.00010 0.00010 0.00010 0.00010 0.00010 0.00010 0.00010 0.00010 0.00010		0.117	0.0052	Ш	0.0005		0.067
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0 0 30 0 0	C Data	39.63 0.091 2.071 0.658 20.55 20.56 30.66 0.48	6.9 7.7 7.2 6.9 6.9 6.8 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7	2 - 2 - 2 2 2	0.0010			0.0010 <	90.0	0.17	0.002 <	600	0.028
000		20.091 2.071 2.071 0.058 20.55 20.55 30.66 0.48	7.7 6.6 6.6 7.7 7.7 7.7 7.7 7.7 7.7 7.7			0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001	v	0.0010	0.05 J	0.2	0.002 <	003	0.020
30 00		21.46 2.071 0.658 20.55 20.55 0.48 0.48 0.28	6.9 6.9 6.8 7.7 7.7 7.3 7.7 7.7 7.7 7.7 7.7	2-52		0.00010 0.00010 0.00010 0.00010 0.00010 0.00010	v		0.004	0.01 <	0.001	0.005	2000
30 80 00		2.071 0.658 20.55 20.55 0.48 0.48 0.28	6.9 6.9 6.7 7.7 6.8 8.6 7.7 7.7 7.7 7.7 7.7	- 5 4		0.00020 0.00010 0.00010 0.00010 0.00010 0.00010			0.09	0.23	0.001 <	0000	,
30 00 00 00 00 00 00 00 00 00 00 00 00 0		0.658 20.55 20.55 30.66 0.49 0.28	6.9 6.8 7.7 7.7 8.6 8.6 7.7 7.7 7.7 7.7	20 47		0.00010			0.022	0.04	0.001	0.012	1000
00 00 00 00 00 00 00 00 00 00 00 00 00		20.55 0.48 30.66 0.49 0.28	6.8 7.1 7.3 6.8 6.8 7.5	01		0.00010	v		0.008	0.05 <	0000	0.005	0.00
00 30 00 00 00 00 00 00 00 00 00 00 00 0		30.66 0.49 0.28	7.1 7.1 7.3 6.8 7.7 7.5	4444		0.00010	v		0.068	0.24	, 100.0	0.035	0.02
0 3 0 2		0.48 30.66 0.49 0.28	7.1 7.3 6.8 7.7 7.5	5 5 5 5		0.00010	v		0.004	0.01	0.001	0.003 ×	0.00
20808		0.48 30.66 0.49 0.28	7.3	7. 7. 7.		0.00010	v		0.01	0.03	0.000	7 7000	000
7080		0.48 30.66 0.49 0.28	7.5	7. 7.	10.10	0100010	v		0.01	0.05 <	0.003	0.005	1 000
0 3 6 2		30.66 30.66 0.49 0.28	7.4	0.1		2,000,0	v		0.008	0.05 <	0.001 <	0.000	100
3 3 6 2		30.66 0.49 0.28	7.5			0.00010 <	v		0.005	0.01 <	0.001 <	0.003 <	000
3 6 2		0.49	7	0.1 <		0.00010			0.054	0.24	0.002 J	0.024	× 100
0 % 0 0		0.28	,	0.1	0.0030	> 0.00010 >	v		0.007	0.05 <	0.001 <	0.003 <	0.03.1
20800		1,2	7	0.1 <		> 100001	v		0.007	0,02	0.001 <	0.005	0.03
0 % 0 %		2		0.3 J		> 100001 <	v		0.062	0.34	0.001	0.03	0.04 J
		0.027	6.9			0.0002			0.008	0.03	> 100.0	0.003 <	0.03 J
01-Jul-03 30-Sep-03 06-Apr-04		0.002	7	0.05 <		0.0001 <	v	-	0.004	60.0	0.001 <	0.003 <	> 10.0
		4 4	7.6	0.17		0.0001 <	v		0.04	0.19	0.001 <	0.024	0.01 <
1000		0.00	7.7	0.00		0.0000	/ \		0.008	0.00	0.001 <	0.003 <	0.01
7.2 28-11n-04 Maxim		2.043	5.7	600		0.000.0	/ \		90.00	0.03 ×	0.001	0.005 <	0.02 JF%
l		5.42 F. A. 3.3	5. 6.		The second secon	2000	,		0.030	2 20	V 100.0	500	> 10.0
2-10-00-00	the same of the sa	20.4	3.			000.0			20.02	40.04	> L00.0	0.01	0.03
Station CFY-2: Pre-1999 Samples (n)	3	00	80	60	00	00		œ	60	00	7	8	80
Minimum		0.690	6.800	0.050	0.001	0000		0.001	0.017	0.015	0.001	0.010	0.005
Maximum		91.600	7.600	0.500	0.003	0.001		0.010	0.110	0.830	0.005	0.090	0.040
Mean		19,989	7.063	0.175	0.002	0000		9000	0.054	0.258	0.002	0.040	0.019
Mean + (2 × SD): for pH: Mean = (2 × SD)	(US	31.828	6 573	0.156	10000	0.000		0.005	0.027	0.262	0.001	0.023	0.012
all + (2 × 3D), lot pit, ineall - (2 ×	(25)	440.00	270.0	70.40	0.0030	740000		0.0103	0,108	0.783	C00.0	0.087	0.043
Station CFY-2: 1989-2004 Samples (n.	回	25	29	29	8	28		00	28	29	28	29	29
Minimum		0.002	6.800	0.025	0.001	0.000		0.001	0.004	0.005	0.001	0.005	0.005
Maximum		91.000	7 424	0.300	5000	0.00		0.00	0.110	0.830	0.005	0.090	0.040
Chanderd Deviation (SD)		20.0422	0 244	0.00	2000	0000		9000	0.031	0.132	0.001	0.018	0.018
Mean + (2 x SD); for pH: Mean - (2 x SD)	SD)	50.443	6.635	0.323	0000	0000		0.016	0.089	0.483	0.00	0.020	0.013
Station CEY-2: 1999-2004 Samples (n)	10)	17		9.1		24		-	- 2	ē	20	- 2	
Minimum		0.002	6 800	0.025	0.002	0000		0000	0.004	0.005	10000	17	12000
Maximum		30,660	7.600	0.300	0.002	0000		0000	0.090	0.340	0000	0.002	0000
Mean		5.920	7.148	0.080	0.002	0000			0.023	0.084	000	0000	0.042
Standard Deviation (SD)		9.494	0.246	0.073		00000			0.025	0.102	0000	0.011	0.013
Mean + (2 x SD), for pH: Mean - (2 x SD)	(OS	24.909	6.655	0,227		0000			0.074	0.287	0.001	0.031	0.044
Temporary Standard - CFY-2		STATE STATES	5.7	0.47	NA	AN	The state of the s	NA	0.11	0.75	0.002	0.082	0.044

Notes: mg/l = milligrams/liter, su = standard units n = number of samples

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< = less than detection J = estimated value

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< = less than defection J = estimated value Revised: 3/7/05

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TABLE A-1 - STATISTICAL SUMMARY OF WATER QUALITY DATA 1989-2004 New World Mining District Response and Restoration Project

Decided Hermiteria Data Decided Hermiter	one of suppose by the control of suppose by the	Deciding file file file file file file file file	Sample Station	Sample Date Data Source	Flow (cfs)	Lab pH (su)	Aluminum Total Rec. Al (mg/l) Flag	Arsenic Total Rec. (mg/l)	S. As Flag	Cadmium Total Rec. Cd (mg/l) Flag	Chromium Total Rec. Cr (mg/l) Flag	Copper Total Rec. (mg/l)	Cu Total Rec. Fe Flag (mg/l) Flag	Total Rec. Pb	Manganese Total Rec. Mn (ma/l) Flag	Zinc Total Rec. Zn (ma/l) Flag
Decidion Control Con	Maintained State Maintained	Deciding by Physical case Deciding Dec	Chronic Stan	idard (for Hardness = 50 mg/l)			0.087	0.15	10.01	0.00142	0.117		-	П	NA.	0.067
Object	Geologies (Approximate Date Cologies C	Wildlige Hydrometica Data 2,55 a	Acute Stand	fard (for Hardness = 50 mg/l)			0.75	0.34		0.00206	0.984	0.0073	AN	0.014	¥.	0.067
Volctors	United States United State	Microphysicant Data Color	W-3	08/02/89 Hydrometrics Data			0.1	00:00	> 09	0.00100 <		0.03	0.03 <	0.01 <	0.11	0.01
Unicode by expressing to the state of the	Company physicantics Data Company Compan	Control Department Data Control Departme	W-3	09/15/89 Hydrometrics Data	0.36	w (0.00	> 05	0.00100 <		1.04	5.58	> 10.0	1.24	0.18
GRANGO PROPRIENTIES DISTANCE CONTINUE NOT CONTINUE NO	GEOGRAPH Phytometric Data 2.5 2.5 0.0000	October Propriettica Data 1.5 2.5	W-3	10/20/69 Hydrometrics Data	0.26	ກໍ່ເ		0.00	v v	0.00100 0		0.85	5.59	0.01 <	1.23	0.17
GRIGING Phytometrical Data 4,5 3,5 1,5 0,000000 0,000000 0,000000 0,000000 0,000000 0,000000 0,000000	GREATION (NATIONALISES DIAMENTES) DIAMENTES	GROSSIN Approximation A	2 /0/3	05/17/30 Hydromotrice Data	0.50	9 6		0.00	7 20	0.00100		10.b1	3.27	0.01 <	- !	0.15
October Octo	Control by Proposed Control	Octobrophy reference Country Autobrophy reference Country	2.W	05/25/90 Hydrometrics Data	5.75			0.00	, 00	0.00040	0.0200	0.093	5.5 5.0	0.003	0.49	0.11
Object O	06/3509 (hydrometric Data 6 45 4 45 4 45 4 45 4 4 4 4 4 4 4 4 4 4	Octavioration beams	W-3	06/06/90 Hydrometrics Data	2.4	ò	ij					0.0	6.7			90.0
DESTORE Mytermetrics Data 1.5 0.00000 0.0200 0.0200 0.044 0.0001 0.00000 0.0200 0.045 0.0014 0.00010 0.0200 0.0200 0.045 0.0014 0.00000 0.0200 0.0200 0.0014 0.00000 0.0200 0.000000 0.00000 0.000000 0.0000000 0.000000 0.000000 0.000000 0.0000000 0.000000	Grand Control Contro	Octobrop Proposition Pro	W-3	06/13/90 Hydrometrics Data	4.54	88	σ.					0.43	700			
062209 Hydrometrics Data 15.5 3.9 1.5 1.5 0.000000 0.00000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000	OGAZIONO Informatrica Data (1770) Professional England Symposium (1770) Professional	0.002200 0.00200 0.0	W-3	06/15/90 Hydrometrics Data	3.4	5	?					0.45	50.0			0.04
OFFICIATION Phytomenics Date 17.35 17.7 0.0000	GRAZIORA Phytomenics Data 1132 4 172 0.0000 c	G0ZZ000 hydrometrics Date 112 0.0000 co. 0.0000 co. <th< td=""><td>W-3</td><td>06/20/90 Hydrometrics Data</td><td>6.15</td><td></td><td>8</td><td></td><td></td><td>00000</td><td>> 00000</td><td>0 40</td><td>20.00</td><td></td><td>ć</td><td></td></th<>	W-3	06/20/90 Hydrometrics Data	6.15		8			00000	> 00000	0 40	20.00		ć	
OF/ZIROS PHydrometrics Data 17.88 4 1.7 0.0050 0.0000 0.0200 0.466 4.3 0.014 OF/ZIROS PHydrometrics Data 11.4 3.8 1.5 0.0100 0.0200 0.466 4.3 0.014 OF/ZIROS PHydrometrics Data 3.5 3.7 1.7 0.00100 0.0200 0.59 3.18 0.014 OF/ZIROS PHydrometrics Data 3.5 3.7 1.7 0.00100 0.0200 0.020 0.017 OF/ZIROS PHydrometrics Data 3.5 3.6 0.0050 0.0000 0.0200 0.000 0.000 OF/ZIROS PHydrometrics Data 3.6 2.4 0.0000 0.0000 0.0000 0.000 0.000 0.0000 OF/ZIROS PHydrometrics Data 3.5 1.4 0.0000 0.0000 0.0000 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	GENERATION Professional Design Professional Control of	GRAZINO Princensical bills 17.89 4 17.7 0.0000 c 0.0000 c 0.0000 c 0.0000 c 0.046 4.3 0.01 c 0.19 07/00500 Princensical Data 1.54 3.8 1.6 0.0010 c 0.0000 c 0.046 4.3 0.01 c 0.19 07/00500 Princensical Data 3.2 3.7 1.7 0.0000 c 0.0000 c 0.059 0.01 0.01 0.01 0.01 07/00500 Princensical Data 2.3 3.7 1.7 0.0000 c 0.0000 c 0.0000 c 0.000 c 0.00	W-3	06/22/90 Hydrometrics Data	13.2		2			0.00200	0.0200	84.0	07:7	> L0.0	0.23	0.05
Official Phytometrics Data 14.2 1.6 0.0010	Officialization informatical basis 16.25 Officialization informatical basis 16.25 Official basis 4.3 OLD 10	(FigSage) Hydrometric Data (16.25) (17.05) (17	N-3	06/27/90 Hydrometrics Data	17.89	4	17	000	50 <	0.00010	> 00000	0.440	00 1	700		
Off 2019 Hydrometrics Data (177109) Hydrometrics Data (177109 Hydrometric	Official State (Control of Control of Contr	77773899 Pytermetric Data 74.5 3.8 1.5 0.00100 c 0.0200 c 0.486 4.3 0.011 c 0.27 77710890 Pytermetric Data 3.9 3.7 1.7 0.00100 c 0.0200 c 0.29 3.18 0.011 c 0.27 77710890 Pytermetric Data 2.3 3.7 1.7 0.00100 c 0.0200 c 0.29 3.18 0.011 c 0.27 77710890 Pytermetric Data 2.3 3.5	N-3	06/28/90 Hydrometrics Data	16.25			3			0.080.0	2.0	0.0	0.00	0.1b	0.04
70 (7) (2009 Hydrometrics Data (7) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	Off Total Polytometrics Date 1 9.74 1.7 CODIDO COZOD	Off Total Method methods billing in the control of the con	N-3	07/03/90 Hydrometrics Data	14.9		9			0.00100 0	00000	0.486		200	0	
Of/1200 Pydrometrics Data 3.9 1.7 0.00100 0.0200 0.59 3.19 0.01 Of/1200 Pydrometrics Data 3.2 3.7 1.7 0.00100 0.0200 0.59 5.6 0.001 Of/1200 Pydrometrics Data 2.3 3.6 2.6 0.0050 0.00000 0.0200 0.09 5.6 0.003 Of/1200 Pydrometrics Data 0.6 3.5 0.0000 0.00000 0.0200 0.000<	Off/Table Displaymentics Date 3.9 3.7 1.7 CONTION CHAPTER STATES DATE 3.19 0.01 0.02 0.03 3.19 0.01 0.02 0.03 3.19 0.01 0.02 0.03 <t< td=""><td>Off/1980 Hydrometrics Data 3.9 3.7 1.7 Ox00100 C 0.0200 C 0.59 3.19 0.01 0.02 Off/1980 Hydrometrics Data 2.3 3.7 1.7 0.0000 C 0.0000 C</td></t<> <td>N-3</td> <td>07/05/90 Hydrometrics Data</td> <td>9.74</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>200</td> <td>?</td> <td>/ 0.0</td> <td><u>8</u></td> <td>0.04</td>	Off/1980 Hydrometrics Data 3.9 3.7 1.7 Ox00100 C 0.0200 C 0.59 3.19 0.01 0.02 Off/1980 Hydrometrics Data 2.3 3.7 1.7 0.0000 C	N-3	07/05/90 Hydrometrics Data	9.74							200	?	/ 0.0	<u>8</u>	0.04
77/7269 (Hydrometrics Data 2 3 17 7776) (Hydrometrics Data 2 2 17 7776) (Hydrometrics Data	Off/T/200 Hydrometrics Data 2.3 3.7 0.0000 0.0200 0.03 3.79 0.05 Off/T/200 Hydrometrics Data 1.5 2.6 0.0000 0.0200 0.03 5.6 0.000 0.56 Off/T/200 Hydrometrics Data 1.6 3.5 2.6 0.0000 0.0200 0.03 5.6 0.000 0.05 Off/T/200 Hydrometrics Data 0.6 3.5 2.6 0.0000 0.0200 0.32 5.6 0.000 0.05 Off/T/200 Hydrometrics Data 0.6 3.5 2.6 0.0000 0.0000 0.0200 0.05 0.00 <	### Original Hydrometrics Data 3.2 3.7 3.7 3.8	N-3	07/10/90 Hydrometrics Data	9.0	3.7	1.7			0.00100 <	0.0200 <	0.59	3.18	7000	70.0	000
Off/1980 bydrometrics Data 2.3 3.6 2 Off/1980 bydrometrics Data 2.3 3.6 2.6 0.0050 0.000040 0.02200 0.99 5.68 0.003 Off/1980 bydrometrics Data 1.6 3.5 2.6 0.0050 0.00000 0.02200 0.09 5.68 0.007 Off/256 bydrometrics Data 0.4 3.4 2.7 0.0050 0.00000 0.02200 0.09 5.68 0.007 Off/256 bydrometrics Data 0.2 2.4 2.7 0.0050 0.00000 0.02200 0.09 5.68 0.007 Off/256 bydrometrics Data 0.5 3.5 1.1 0.00500 0.00000 0.02000 0.0200 0.0000 Off/256 bydrometrics Data 0.5 3.5 2.9 0.00050 0.00000 0.0000 0.0000 Off/256 bydrometrics Data 0.3 3.2 3.0 0.00010 0.00000 0.0000 0.0000 Off/258 bydrometrics Data 0.3 3.2 3.0 0.00010 <	Off/17/2804 public metrics Data 2.3 3.6 2 Off/17/2804 public metrics Data 2.3 3.5 2 0.0000 0.0200 0.0200 0.0200 0.059 5.68 0.003 0.56 Off/2804 public metrics Data 1.6 3.5 2.6 0.0000 0.0200 0.020 0.007 1.29 Off/2804 public metrics Data 0.2 2.4 2.7 0.0000 0.0000 0.0200 0.020 0.007 1.29 Option of Comments Data 0.2 2.4 2.7 0.0000 0.0000 0.0200 0.02 0.00	Virtigos Hydrometics Data	N-3	07/12/90 Hydrometrics Data	3.2	3.7							5		2.0	0.0
Off/Table by Hydrometrics Data 1.5 2.5 2.6 0.0050 0.00000 0.02200 0.099 5.66 0.003 007/28/50 hydrometrics Data 0.6 3.5 2.4 2.7 0.0050 0.00000 0.02200 0.025 5.66 0.007 007/28/50 hydrometrics Data 0.4 3.4 3.3 0.0050 0.000100 0.02200 0.02 2.9 0.001 007/28/50 hydrometrics Data 0.4 3.5 1.1 0.00100 0.02000 0.02 0.02 2.9 0.001 007/28/35 hydrometrics Data 0.2 3.5 1.0 0.00100 0.00200 0.0200 0.002 0.001 007/28/35 hydrometrics Data 0.3 3.2 3.0 0.0010 0.0000 0.0000 0.000 0.000 0.000 007/28/35 hydrometrics Data 0.3 3.2 3.0 0.0010 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 <	Off/1980 Hydrometrics Date 2.3 3.5 C 0.0096 c 0.0004 c 0.0200 c 0.099 c 566 0.003 0.55 c Op/2/390 Hydrometrics Date 0.6 3.5 1.0 0.0090 c 0.0010 c 0.0200 c 0.03 5.6 0.007 1.29 c Op/2/390 Hydrometrics Date 0.6 3.4 3.0 0.0090 c 0.0010 c 0.0200 c 0.03 3.78 c 0.007 1.29 c Op/2/391 Hydrometrics Date 0.5 3.5 1.1 0.0010 c 0.0200 c 0.03 3.78 c 0.002 c 0.0010 c 0.0200 c 0.03 3.78 c 0.002 c 0.0000 c 0.0010 c 0.0200 c 0.0010 c 0.0010 c 0.0010 c 0.0020 c 0.0020 c 0.0020 c 0.0020 c 0.0020 c	Off/1980 Hydrometrics Data 2.3 3.5 C 0,0050 C 0,000 C 0,000 <td>N-3</td> <td>07/17/90 Hydrometrics Data</td> <td>2.3</td> <td>3.6</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.8</td> <td>3.79</td> <td></td> <td></td> <td>20.0</td>	N-3	07/17/90 Hydrometrics Data	2.3	3.6						0.8	3.79			20.0
07/2809 (Hydrometrics Data) 1.6 3.6 2.6 0.00040 0.0200 0.090 0.000 08/2509 (Hydrometrics Data) 0.4 3.4 1.7 0.000	OFFICASSON Pylacometrics Data of 16 3.5 2.6 0.0006 0.00000 0.0200 0.0500 0.0000 0.0200 0.0500 0.0000 0.0200 0.0000<	Off-Zabby Hydrometrics Data of Carbon (2009) 16 3.6 0.0050 0.0050	N-3	07/19/90 Hydrometrics Data	2.3	3.5										9
QRZ5809 Hydrometrics Data 0.6 3.4 0.00050 0.00000 0.0200 0.02 0.007	QUESTION Phytrometrics Data 0.6 3.5 0.00000 <td> October Octo</td> <td>N-3</td> <td>07/26/90 Hydrometrics Data</td> <td>1.6</td> <td>3.6</td> <td></td> <td>0.00</td> <td>> 09</td> <td>0.00040</td> <td>0.0200 <</td> <td>0.99</td> <td>5.66</td> <td>0.003</td> <td>0.56</td> <td>0000</td>	October Octo	N-3	07/26/90 Hydrometrics Data	1.6	3.6		0.00	> 09	0.00040	0.0200 <	0.99	5.66	0.003	0.56	0000
OFFICEROR Hydrometrics Data 0.4 3.4 2.3 0.00050 0.00000 0.02000 0.0000	Off/SSR bydrometrics Data 0.4 3.4 3.0 0.00096 or 0.00000 or 0.0200 or 0.020	Old Script Pythometrics Data 0.4 3.4 3.1 0.00000 0.00200 0.002	V-3	08/23/90 Hydrometrics Data	9.0	3.5										1
OFFICIARY Hydrometrics Data 0.2 2.4 2.7 0.00056 controlled to the control of the	Official by Hydrometrics Data 7 24 2.7 0.01% 0.05 Official by Hydrometrics Data 7 3.5 1.1 0.00010 0.02200 0.72 2.7 0.01 Official by Hydrometrics Data 7 3.5 1.4 0.00056 0.00010 0.02200 0.0220 0.0220 0.0220 0.0220 0.0005 0.0007 0.00070<	00/05/86 Hydrometrics Date 7 2.4 2.7 0.0016 0.0200 0.72 2.79 0.016 0.88 00/05/86 Hydrometrics Date 7 3.8 1.4 0.0006 0.00001 0.0200 0.59 3.78 0.00 0.00 0.0000 </td <td>V-3</td> <td>09/25/90 Hydrometrics Data</td> <td>0.4</td> <td>3.4</td> <td></td> <td>0.00</td> <td>> 09</td> <td>0.00090</td> <td>0.0200 <</td> <td>96.0</td> <td>98</td> <td>0.007</td> <td>1 29</td> <td>0.16</td>	V-3	09/25/90 Hydrometrics Data	0.4	3.4		0.00	> 09	0.00090	0.0200 <	96.0	98	0.007	1 29	0.16
OFORER Hydrometrics Data 7 3.5 1.1 COROTIC	QR/9589 Hydrometrics Data 7 3.5 1.1 0.00000 0.02200 0.03 3.78 0.002 0.03 0.02 0.00 <t< td=""><td>Officiality by Convenitions Date 7 3.5 1.1 0.00010 0.00000</td><td>V-3</td><td>03/15/91 Hydrometrics Data</td><td>0.2</td><td>2.4</td><td></td><td>0.00</td><td>> 09</td><td>0.00100 <</td><td>0.0200 <</td><td>0.72</td><td>2.79</td><td>0.01 <</td><td>0.89</td><td>0.00</td></t<>	Officiality by Convenitions Date 7 3.5 1.1 0.00010 0.00000	V-3	03/15/91 Hydrometrics Data	0.2	2.4		0.00	> 09	0.00100 <	0.0200 <	0.72	2.79	0.01 <	0.89	0.00
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09/14/98 lty/drometrics Data 0.5 3.5 2.9 0.000070 0.02200 0.95 5.93 0.0044 09/14/98 lty/drometrics Data 0.23 3.5 2.9 0.0056 0.00200 0.02200 0.030 1.1 6.62 0.004 09/14/98 lty/drometrics Data 2.36 3.2 3.8 0.0010 0.0000 0.0030 1.1 6.62 0.002 09/14/98 lty/drometrics Data 7.29 3.7 2.5 0.00010 0.00010 0.0010 0	ORGANIST PARTICIPATION DATA CONTINUE DAT	ORGANICATION ORGA	V-3	07/09/91 Hydrometrics Data	e	3.8		0.00	> 09	0.00180 J	0.0200 <	0.65	4.32	0.002 J	0.29	0.05
Official State of Control of Con	ORZ/2018 Hydrometrics Data 0.2 3.5 4.3 0.00500 on 0.00200 0.02000 on 0.00200 1.1 f.5 0.0000 on 0.00000 1.1 f.5 0.0000 on 0.0000 1.1 f.5 0.0000 on 0.0000 0.0010 on 0.0000	Organization of the control of the	V-3	08/14/91 Hydrometrics Data	0.5	3.5		0.00	> 09	0.00070	0.0200	0.95	5.93	0.004	0.93	0.14
OF/Z2/98 hydrometrics Data 2.38 3.3 0.00104 0.0030 1.1 6.62 0.002 O9/Z2/98 hydrometrics Data 5.42 3.8 2.8 0.0010 0.0010 1.1 6.62 0.002 O9/Z1/98 hydrometrics Data 5.42 3.8 2.8 0.0010 0.0010 1.38 3.2.1 0.008 O9/Z1/98 hydrometrics Data 7.75 4.1 1.6 0.0010 0.0010 0.001 1.33 0.008 O6/Z1/06 hydrometrics Data 7.75 4.1 1.6 0.0010 0.001 0.396 1.72 0.008 O6/Z1/06 hydrometrics Data 1.5 4 1.5 0.0010 0.0010 0.396 1.72 0.006 O6/Z1/06 hydrometrics Data 1.5 4 1.3 0.00010 0.00010 0.0010 0.006 0.006 O6/Z1/06 hydrometrics Data 1.5 4 1.3 0.00010 0.0000 0.396 1.77 0.006 O6/Z1/06 hydrometrics Data 1.6 3.3 3.3 3	OF/ASSB Hydrometrics Data 2.36 3.3 0.0010 0.00030 1.1 6.62 0.0002 0.56 OF/ASSB Hydrometrics Data 5.42 3.8 2.6 0.0010	OF/CASIS Hydrometrics Data 2.35 3.3 CO0100 CO0010 1.1 6.62 0.0002 0.56 OF/CASIS Hydrometrics Data 5.42 3.3 2.6 CO010	۷-3	09/24/91 Hydrometrics Data	0.2	3.5		0.00	>09	0.00220	0.0200 <	0.95	5.51	0.006	1.26	0.16
Off 1/485 Hydrometrics Data 6.38 3.2 3.8 0.00010 0.00010 1.1 1.1 0.009 Off 1/485 Hydrometrics Data 7.29 3.7 2.5 0.0000 0.00010 0.0010 0.0010 0.0010 0.0010 0.00010 <td>OB/21/93 Hydrometrics Data 0.38 3.2 3.8 0.00101 0.00100 0.00100 1.1 1.15 0.009 1.15 OB/21/93 Hydrometrics Data 7.29 3.7 2.5 0.00010 0.00010 0.0010</td> <td>OBCATORS Hydrometrics Data 0.38 3.2 3.8 0.0010 0.0010</td> <td>V-3</td> <td>07/23/93 Hydrometrics Data</td> <td>2.36</td> <td></td> <td></td> <td>0.00</td> <td>10</td> <td>0.00040</td> <td>0.0030</td> <td>1.1</td> <td>6.62</td> <td>0.002 <</td> <td>0.56</td> <td>0.13</td>	OB/21/93 Hydrometrics Data 0.38 3.2 3.8 0.00101 0.00100 0.00100 1.1 1.15 0.009 1.15 OB/21/93 Hydrometrics Data 7.29 3.7 2.5 0.00010 0.00010 0.0010	OBCATORS Hydrometrics Data 0.38 3.2 3.8 0.0010 0.0010	V-3	07/23/93 Hydrometrics Data	2.36			0.00	10	0.00040	0.0030	1.1	6.62	0.002 <	0.56	0.13
Off/495 Hydrometrics Data 5.42 3.8 2.5 0.0007	OF 17 (49) Expression below (17) Expression below (17) (49) Expression below (17) Expression	Officially implications based of the processing based o	۲-3 د -3	09/21/93 Hydrometrics Data	0.38	8 6		0.00	> 01	0.00100	0.0010 <	1.1	11.6	0.009	1.67	0.17
09/7/4959 Hydrometrics Data 7.29 3.7 2.5 0.00040 0.00010 1.786 J 3.32 J 0.0008 09/7/495 Hydrometrics Data 0.31 3.2 4.3 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0011 </td <td>OF/ZORE Hydrometrics Data 7.24 3.7 2.5 0.00000 0.0000 0.786 J 3.2 J 0.000 0.41 0.77 0.000 0.041 0.000 0.000 0.041 0.000 0.000 0.000 0.041 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.00</td> <td> Vol.71495 Hydrometrics Data 7.29 3.7 4.8 0.00020 0.00010 0.786 3.32 0.0008 0.041 Vol.71495 Hydrometrics Data 7.795 4.1 1.6 0.00010 0.00010 0.786 3.32 0.0008 0.041 Vol.71495 Hydrometrics Data 7.795 4.1 1.6 0.00010 0.00010 0.0001 0.000 0.000 0.000 Vol.71496 Hydrometrics Data 7.795 4.1 1.6 0.00010 0.00010 0.0001 0.000 0.000 0.000 0.000 Vol.71496 Hydrometrics Data 7.795 4.1 1.6 0.00010 0.00010 0.0001 0</td> <td>۳-\- د -\-</td> <td>06/14/94 Hydrometrics Data</td> <td>5.42</td> <td>K.) (</td> <td></td> <td>0.00</td> <td>> 01</td> <td>0.00030</td> <td>0.0010 <</td> <td>0.54 J</td> <td>2</td> <td>0.007</td> <td>0.29</td> <td>0.058 J</td>	OF/ZORE Hydrometrics Data 7.24 3.7 2.5 0.00000 0.0000 0.786 J 3.2 J 0.000 0.41 0.77 0.000 0.041 0.000 0.000 0.041 0.000 0.000 0.000 0.041 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.00	Vol.71495 Hydrometrics Data 7.29 3.7 4.8 0.00020 0.00010 0.786 3.32 0.0008 0.041 Vol.71495 Hydrometrics Data 7.795 4.1 1.6 0.00010 0.00010 0.786 3.32 0.0008 0.041 Vol.71495 Hydrometrics Data 7.795 4.1 1.6 0.00010 0.00010 0.0001 0.000 0.000 0.000 Vol.71496 Hydrometrics Data 7.795 4.1 1.6 0.00010 0.00010 0.0001 0.000 0.000 0.000 0.000 Vol.71496 Hydrometrics Data 7.795 4.1 1.6 0.00010 0.00010 0.0001 0	۳-\- د -\-	06/14/94 Hydrometrics Data	5.42	K.) (0.00	> 01	0.00030	0.0010 <	0.54 J	2	0.007	0.29	0.058 J
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Off/1296 Pydrometrics Data 3.2 4.3 0.000100 0.92 4.8 0.006 Off/1296 Pydrometrics Data 17.95 4.1 1.6 0.00020 0.395 1.72 0.003 Off/2096 Pydrometrics Data 12.85 4.1 1.6 0.00020 0.396 1.77 0.003 Off/296 Pydrometrics Data 12.85 4.1 1.3 0.00010 0.448 1.93 0.003 Off/296 Pydrometrics Data 5.644 3.3 1.3 J 0.00010 0.448 1.93 0.003 Off/296 Pydrometrics Data 5.644 3.3 1.3 J 0.00010 0.448 1.93 0.003 Off/296 Pydrometrics Data 5.644 3.3 3.1 3.5 3.4 6.46 2.84 0.003 Off/296 Pydrometrics Data 5.644 3.3 3.1 3.5 3.4 6.46 2.84 0.003 Off/296 Pydrometrics Data 0.77 3.3 3.15 0.0100 0.090 0.411 2.26 2.84 0.008 <td> Discription Hydrometrics Date 3.2</td> <td>OGATION Processing Data 3.2 4.3 0.00100 0.92 4.8 0.006 0.891 OGATOR Hydrometrics Data 9.04 3.6 4.3 0.00020 0.036 1.72 0.006 0.891 OGATOR Hydrometrics Data 12.65 4 1.6 0.00020 0.394 1.72 0.003 0.167 OT/10296 Hydrometrics Data 15.9 4 1.3 0.00010 0.0001 0.348 1.33 0.165 0.165 OT/10296 Hydrometrics Data 5.74 3.4 1.3 0.00010 0.0001 0.448 1.33 0.165<!--</td--><td>N-3</td><td>09/27/95 Hydrometrics Data</td><td>0.31</td><td>3.5</td><td></td><td>0.00</td><td>10 <</td><td>0.00000</td><td>0.0010</td><td>1.53</td><td>Ξ</td><td>0.008</td><td>1.66</td><td>0.231</td></td>	Discription Hydrometrics Date 3.2	OGATION Processing Data 3.2 4.3 0.00100 0.92 4.8 0.006 0.891 OGATOR Hydrometrics Data 9.04 3.6 4.3 0.00020 0.036 1.72 0.006 0.891 OGATOR Hydrometrics Data 12.65 4 1.6 0.00020 0.394 1.72 0.003 0.167 OT/10296 Hydrometrics Data 15.9 4 1.3 0.00010 0.0001 0.348 1.33 0.165 0.165 OT/10296 Hydrometrics Data 5.74 3.4 1.3 0.00010 0.0001 0.448 1.33 0.165 </td <td>N-3</td> <td>09/27/95 Hydrometrics Data</td> <td>0.31</td> <td>3.5</td> <td></td> <td>0.00</td> <td>10 <</td> <td>0.00000</td> <td>0.0010</td> <td>1.53</td> <td>Ξ</td> <td>0.008</td> <td>1.66</td> <td>0.231</td>	N-3	09/27/95 Hydrometrics Data	0.31	3.5		0.00	10 <	0.00000	0.0010	1.53	Ξ	0.008	1.66	0.231
Objective Hydrometrics Date 7.79 4.1 1.6 0.00020 0.417 2.73 0.003 Objective Hydrometrics Date 12.65 4 1.6 4 1.5 0.0002 0.395 1.72 0.003 Objective Hydrometrics Date 15.9 4 1.3 0.00010 0.446 1.83 0.003 O7/18/96 Hydrometrics Date 5.644 3.3 1.3 J 0.00010 0.646 2.84 0.003 O7/18/96 Hydrometrics Date 6.767 3.4 3.3 3.5 0.00000 0.646 2.84 0.003 O7/18/96 Hydrometrics Date 6.767 3.4 3.3 3.5 0.00000 0.041 2.84 2.84 O7/18/96 Hydrometrics Date 6.766 2.84 3.3 3.5 0.00000 0.0100 0.010 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	Up/Light Purpose interest bate 9,04 3.5 1.73 0.003 0.417 2.73 J 0.003 0.167 Up/Light Purpose interest bate 12.65 4 1.6 0.00020 0.395 1.72 0.003 0.167 Up/Light Purpose interest bate 15.9 3 4 1.3 J 0.00010 0.646 2.84 0.003 0.163 Up/Light Purpose interest bate 5.64 3.3 1.3 J 0.00010 0.646 2.84 0.003 0.163 0.163 Up/Light Purpose interes bate 2.767 3.4 3.5 1.3 J 0.00010 0.646 2.84 0.163 0.163 0.165 <td< td=""><td>OFF/ZORDS Hydrometrics Data 9,94 3,50 4,15 0,00020 0,417 2,73 0,003 0,167 OFF/ZORDS Hydrometrics Data 12.65 4 1,6 0,00020 0,334 1,72 0,003 0,167 OFF/ZORDS Hydrometrics Data 1,59 4 1,3 0,00010 0,447 1,73 0,0163 OFF/ZORD Hydrometrics Data 5,64 3,3 1,3 0,00010 0,444 1,33 0,003 0,163 OFF/ZORD Hydrometrics Data 5,64 3,4 3,3 1,3 0,00010 0,646 2,84 0,163 OFF/ZORD Hydrometrics Data 2,552 3,3 1,61 0,00010 0,0003 3,83 0,003 0,163 0,163 0,163 0,163 0,163 0,163 0,163 0,164 1,81 0,000 0,164 1,81 0,000 0,164 0,163 0,163 0,164 0,163 0,164 0,163 0,164 0,163 0,164 0,164 0,163 0,164 0,164 0,1</td><td>۳- د- ۷-</td><td>05/21/96 Hydrometrics Data</td><td>(</td><td>3.2</td><td></td><td></td><td></td><td>0.00100</td><td></td><td>0.92</td><td>4.8</td><td>0.006</td><td>0.891</td><td>0.22</td></td<>	OFF/ZORDS Hydrometrics Data 9,94 3,50 4,15 0,00020 0,417 2,73 0,003 0,167 OFF/ZORDS Hydrometrics Data 12.65 4 1,6 0,00020 0,334 1,72 0,003 0,167 OFF/ZORDS Hydrometrics Data 1,59 4 1,3 0,00010 0,447 1,73 0,0163 OFF/ZORD Hydrometrics Data 5,64 3,3 1,3 0,00010 0,444 1,33 0,003 0,163 OFF/ZORD Hydrometrics Data 5,64 3,4 3,3 1,3 0,00010 0,646 2,84 0,163 OFF/ZORD Hydrometrics Data 2,552 3,3 1,61 0,00010 0,0003 3,83 0,003 0,163 0,163 0,163 0,163 0,163 0,163 0,163 0,164 1,81 0,000 0,164 1,81 0,000 0,164 0,163 0,163 0,164 0,163 0,164 0,163 0,164 0,163 0,164 0,164 0,163 0,164 0,164 0,1	۳- د- ۷-	05/21/96 Hydrometrics Data	(3.2				0.00100		0.92	4.8	0.006	0.891	0.22
00/26/96 Hydrometrics Data 1/59 4.1 1.5 0.00020 0.395 1.72 0.003 < 0.0026/66/96 Hydrometrics Data 15.9 4.1 1.5 0.00000 0.395 1.72 0.003 < 0.374 6.88 0.374 6.88 0.374 6.88 0.374 6.88 0.374 0.374 6.88 0.374 0.374 0.374 0.374 0.374 0.375 0.003 < 0.374 0.374 0.374 0.375 0.003 < 0.374 0.374 0.374 0.374 0.375 0.003 < 0.374	Objective bydromentics Data 1,79 4,1 1,50 4,1 1,50 0,00020 0,3815 1,72 0,0003 0,167 OF/20296 Hydromentics Data 15,9 4 1,3 0,00010 0,0010 0,48 1,72 0,003 0,167 OF/11/96 Hydromentics Data 5,644 3,3 1,3 0,00000 0,0000 0,000 0,48 1,93 0,003 0,163 OF/11/96 Hydromentics Data 6,767 3,4 3,4 3,4 1,01 0,000 0,48 1,39 0,003 0,163	Objective Projection in Carbon Michael	5-7-3	06/12/96 Hydrometrics Data	9.04	3.6						0.417	2.73 J			0.08
OF/2016 Hydrometrics Data 12.65 4 OF/2016 Hydrometrics Data 12.65 4 OF/11/96 Hydrometrics Data 9.18 3.8 1.3 J 0.00010 0.344 1.93 0.003 O7/11/96 Hydrometrics Data 5.644 3.3 1.3 J 0.00010 0.0446 2.84 1.93 0.003 O7/2016 Hydrometrics Data 6.757 3.4 3.3 3.4 0.0000 0.0000 0.0803 3.83 0.003 O9/11/96 Hydrometrics Data 6.757 3.3 3.15 0.0000 0.0000 0.000 0.090 0.000 0.	Origodale Hydrometrics Data 12.85 4 0.331 3.25 Or/A1/96 Hydrometrics Data 15.9 4 1.3 0.00010 0.00010 0.446 1.93 0.003 0.163 O7/A1/96 Hydrometrics Data 5.644 3.3 1.3 0.00010 0.00010 0.046 2.84 0.003 0.163 O7/A196 Hydrometrics Data 6.767 3.4 3.3 3.4 0.00000 0.0000 0.000 </td <td>Officially hydrometrics Data 12.65 4 0.3341 3.25 Official bydrometrics Data 9.18 3.8 1.3 J 0.00010 0.0446 1.93 0.003 0.165 2.84 0.003 0.165 0.184 0.183 0.003 0.165 0.184 0.183 0.003 0.003 0.004 0.183 0.003 0.003 0.004 0.003 <</td> <td>2-3 3-3</td> <td>06/20/96 Hydrometrics Data</td> <td>367.7</td> <td>4.1</td> <td></td> <td></td> <td></td> <td>0.00020</td> <td></td> <td>0.395</td> <td>1.72</td> <td>0.003 <</td> <td>0.167</td> <td>0.03</td>	Officially hydrometrics Data 12.65 4 0.3341 3.25 Official bydrometrics Data 9.18 3.8 1.3 J 0.00010 0.0446 1.93 0.003 0.165 2.84 0.003 0.165 0.184 0.183 0.003 0.165 0.184 0.183 0.003 0.003 0.004 0.183 0.003 0.003 0.004 0.003 <	2-3 3-3	06/20/96 Hydrometrics Data	367.7	4.1				0.00020		0.395	1.72	0.003 <	0.167	0.03
07/11/296 Hydrometrics Data 13.9 4 13.3 0.00010 0.374 6.88 07/11/296 Hydrometrics Data 5.644 3.3 1.3 J 0.00010 0.448 1.93 0.003 07/18/96 Hydrometrics Data 6.767 3.4 3.3 3.5 0.00090 0.098 6.46 2.84 0.003 09/11/96 Hydrometrics Data 0.38 3.1 3.5 0.00090 0.00090 0.098 6.46 0.008 09/11/96 Hydrometrics Data 0.17 3.3 3.15 0.00090 0.011 2.6 6.91 0.008 09/11/96 Hydrometrics Data 0.17 3.3 3.15 0.00090 0.011 2.6 6.91 0.008 09/11/96 Hydrometrics Data 0.17 3.3 3.15 0.00090 0.011 0.009 0.011 0.008 03/27/98 UoS Data 0.17 3.6 3.7 2.26 0.00090 0.001 0.007 0.007 05/28/98 Maxim 0.2244 3.4 3.5 0.00090 0.001<	Off/18/96 Hydrometrics Data 13.9 4 13.3 0.00010 0.374 6.88 0.163 Of/18/96 Hydrometrics Data 5.644 3.3 1.3 J 0.00010 0.448 6.98 0.163 Of/18/96 Hydrometrics Data 5.644 3.3 3.4 3.5 0.00090 J	Of Modes Date of the State of	5-7	06/26/96 Hydrometrics Data	12.65	4.						0.381	3.25			0.04
07/18/96 Hydrometrics Data 5.44 3.5 0.00010 0.448 1.93 0.003 07/18/96 Hydrometrics Data 6.767 3.4 3.3 0.00010 0.00010 0.448 1.93 0.003 07/25/96 Hydrometrics Data 6.767 3.4 3.3 3.1 3.5 0.00090 J 1.04 6.91 0.008 0.80	07/18/98 Hydrometrics Data 5.44 3.3 4.15 5.0 0.00010 0.0448 1.35 0.003 < 0.163 0.003 < 0.163 0.003 < 0.163 0.0003 < 0.163 0.0003 < 0.163 0.0003 < 0.163 0.0003 < 0.163 0.0003 < 0.163 0.0003 < 0.163 0.0003 < 0.163 0.0003 < 0.163 0.0003 < 0.163 0.0003 < 0.163 0.0003 < 0.163 0.0003 < 0.163 0.0003 < 0.163 0.0003 < 0.163 0.0003 < 0.163 0.0003 < 0.163 0.0003 < 0.163 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.0003 < 0.165 0.00	0/17/8/96 Hydrometrics Data 6,746 3.3 4.00000 0.0446 1.93 0.0003 0.0486 0.003 4.003	? ~ ~	07/02/96 mydromotrics Data	0.0	4.0				0		0.374	6.88	4		0.08 J
07/25/96 Hydrometrics Data 5.757 3.3 3.4 0.00090 J 0.000	OFFICIATION Maxim CORRESSOR Hydrometrics Data C.767 3.4 C.000000 J C.00000 C.000000 C.0000000 C.000000 C.0000000 C.0000000 C.0000000 C.0000000 C.0000000 C.0000000 C.0000000 C.00000000 C.0000000 C.0000000 C.0000000	07/25/96 hydrometrics Data	7-N	077190 Aydrometrics Data	9.10	ים מירי				0.000.0		0.448	1.93	0.003 <	0.163	0.04
08/21/96 Hydrometrics Data 2.552 3.3 3.5 0.00090 J 1.04 6.91 0.008 09/11/96 Hydrometrics Data 0.38 3.1 3.5 0.0100 0.00090 J 1.04 6.91 0.008 03/27/98 UOS Data 0.17 3.5 3.08 0.06 0.00090 J 0.	08/17/96 Hydrometrics Data 2.552 3.3 3.5 0.00090 J 0.0000 J <th< td=""><td>06/21/96 Hydrometrics Data 2.552 3.3 0.00090 J 1.04 6.91 0.008 1.32 0.909 0.0090 J 1.04 6.91 0.008 1.32 0.909 0.041 2.55 0.00090 J 1.04 6.91 0.008 0.165 0.0165 0.041 2.55 0.041 2.5 0.041 2.5 0.041 2.5 0.041 2.5 0.041 2.5 0.041 2.5 0.041 2.5 0.041 2.5 0.041 2.5 0.041 2.5 0.041 2.5 0.041 2.5 0.041 2.5 0.041 2.5 0.041 2.5 0.042 2.5 0.043 2.5 0.043 2.5 0.043 2.5 0.043 2.5 0.043 2.5 0.043 2.5 0.043 2.5 0.043 2.5 0.0002 0.043 2.7 0.0002 0.043 2.7 0.0002 0.043 2.7 0.0002 0.043 2.5 0.0002 0.043 2.5 0.0002 0.043 2.5 0.0002 0.043 2.5 0.0002 0.043 2.5 0.0002 0.043 2.5 0.0002 0.044 2.3 0.0002 0.043 2.5 0.0002 0.044 2.3 0.0</td><td>N-3</td><td>07/25/96 Hydrometrics Data</td><td>6 767</td><td>. E.</td><td></td><td></td><td></td><td></td><td></td><td>0.040</td><td>2 0.04</td><td></td><td></td><td>0.08 <</td></th<>	06/21/96 Hydrometrics Data 2.552 3.3 0.00090 J 1.04 6.91 0.008 1.32 0.909 0.0090 J 1.04 6.91 0.008 1.32 0.909 0.041 2.55 0.00090 J 1.04 6.91 0.008 0.165 0.0165 0.041 2.55 0.041 2.5 0.041 2.5 0.041 2.5 0.041 2.5 0.041 2.5 0.041 2.5 0.041 2.5 0.041 2.5 0.041 2.5 0.041 2.5 0.041 2.5 0.041 2.5 0.041 2.5 0.041 2.5 0.041 2.5 0.042 2.5 0.043 2.5 0.043 2.5 0.043 2.5 0.043 2.5 0.043 2.5 0.043 2.5 0.043 2.5 0.043 2.5 0.0002 0.043 2.7 0.0002 0.043 2.7 0.0002 0.043 2.7 0.0002 0.043 2.5 0.0002 0.043 2.5 0.0002 0.043 2.5 0.0002 0.043 2.5 0.0002 0.043 2.5 0.0002 0.043 2.5 0.0002 0.044 2.3 0.0002 0.043 2.5 0.0002 0.044 2.3 0.0	N-3	07/25/96 Hydrometrics Data	6 767	. E.						0.040	2 0.04			0.08 <
09/11/96 Hydrometrics Data 0.38 3.1 3.5 0.00090 J 1.04 6.91 0.008 07/08/97 UOS Data 0.17 3.3 3.15 0.0100 0.0100 0.011 2.6 04/23/98 UOS Data 0.217 3.6 2.51 0.0010 0.0100 0.014 6.92 05/05/98 UOS Data 0.217 3.6 2.51 0.001 0.023 0.007 05/05/98 UOS Data 4.783 3.7 2.26 0.0011 0.361 2.82 05/05/99 Maxim 0.2244 3.4 3.9 0.00010 0.9 7.49 0.007 09/30/99 Maxim 0.306 3.3 3.1 0.00020 0.41 1.85 0.002 09/30/99 Maxim 0.306 3.3 3.1 0.00020 0.011 0.001 0.002 09/30/99 Maxim 0.306 3.3 3.1 0.00010 0.00140 0.068 0.002 05/18/00 Maxim 0.356 3.4 3.2 0.00140 0.0014 0.002	09/11/96 Hydrometrics Data 0.38 3.1 3.5 0.00090 J 1.04 6.91 0.008 1.32 09/11/96 Hydrometrics Data 0.17 3.3 3.15 0.0100 0.00100 0.011 2.6 0.0165	O9/11/96 Hydrometrics Data 0.38 3.1 3.5 0.00090 J 1.04 6.91 0.008 1.32 09/11/96 Hydrometrics Data 0.17 3.3 3.15 0.0100 0.0100 0.011 2.6 0.015 0.016	W-3	08/21/96 Hydrometrics Data	2.552	. 6						0.803	0,00 AB			0.09
07/08/97 UÖS Data 0.17 3.3 1.81 0.0100 0.411 2.6 0.000 03/27/98 UOS Data 0.17 3.5 3.15 0.0100 0.411 2.6 0.050 04/23/98 UOS Data 0.217 3.6 2.51 0.001 0.445 6.92 05/05/98 UOS Data 4.783 3.7 2.26 0.001 0.443 2.82 05/05/98 UOS Data 4.783 3.7 2.26 0.001 0.443 2.82 05/05/99 Maxim 0.2244 3.4 3.5 1.77 0.00020 0.41 1.85 0.002 09/30/99 Maxim 0.306 3.3 3.1 0.00020 0.41 1.85 0.002 09/30/99 Maxim 0.306 3.3 3.1 0.00020 0.41 1.85 0.002 09/30/99 Maxim 0.306 3.3 3.1 0.00010 0.0014 0.002 0.008 05/18/00 Maxim 0.355 3.4 3.2 0.00140 0.62 0.008	07/08/97 UOS Data 1.81 0.0100 0.00500 0.01100 0.0165	07/08/97 UÖS Data 07/08/97 UÖS Data 07/08/97 UÖS Data 07/08/97 UÖS Data 07/18/98 UOS Data 07/18/99 Maxim	W-3	09/11/96 Hydrometrics Data	0.38	3.1				0.00000		1.04	5.6	8000	1 32	0.0
03/27/98 UOS Data 0.17 3.3 3.15 0.691 7.35 04/23/98 UOS Data 0.112 3.6 3.08 0.745 6.92 05/05/98 UOS Data 4.783 3.7 2.26 3.03 0.643 2.87 05/05/99 Maxim 0.2244 3.9 1.77 0.00010 0.361 2.71 07/09/99 Maxim 7.53 4.2 1.5 0.00020 0.41 1.85 0.002 09/30/99 Maxim 0.306 3.3 3.1 0.00050 0.41 1.85 0.002 09/30/99 Maxim 0.306 3.3 3.1 0.00010 0.001 0.002 09/30/99 Maxim 0.306 3.3 3.1 0.00010 0.001 0.002 09/30/99 Maxim 0.306 3.4 3.2 0.00140 0.086 6.2 0.008 05/18/00 Maxim 0.797 3.5 3.6 0.00140 0.069 0.069 0.069	03/27/98 UOS Data 0.17 3.3 3.15 0.6991 7.35 1.31 0.6991 1.31 0.6991 1.31 0.6991 1.31 0.6991 1.31 0.6991 1.31 0.6991 1.31 0.6991 1.31 0.6991 1.31 0.6991 1.31 0.6991 1.31 0.6991 1.31 0.6991 1.31 0.6991 1.32 0.6991 1.33 0.6991 1.33 0.6991 1.33 0.6991 1.33 0.6991 1.33 0.6991 0.3999 Maxim 0.217 2.39 0.3099 Maxim 0.309 0.309 Maxim 0.309 Maxim 0.309 0.309 Maxim 0.309 0.3	03/27/98 UOS Data 0.17 3.3 3.15 0.691 7.35 1.31 1.31 0.691 7.35 1.31 0.691 7.35 1.31 0.475 9.692 0.775 9.692 0.775 9.692 0.775 9.692 0.775 0.502 0.775 0.502 0.775 0.502 0.775 0.502 0.775 0.502 0.775 0.502 0.775 0.502 0.775 0.502 0.775 0.502 0.775 0.502 0.775	W-3	07/08/97 UOS Data			1.81	0.01	> 00	0.00500 <	0.0100 <	0.411	2.6		0.165	0.0368
04/23/98 UOS Data 0.112 3.5 3.08 0.745 6.92 05/05/98 UOS Data 0.217 3.6 2.51 0.635 3.03 0.635 3.03 05/13/98 UOS Data 4.783 3.7 2.26 0.00110 0.361 2.71 0.361 2.71 0.007 05/05/99 Maxim 0.2244 3.4 3.9 0.00110 0.361 2.71 0.007 05/05/99 Maxim 0.224 3.4 3.5 0.00020 0.41 1.85 0.007 09/30/99 Maxim 0.365 3.4 3.2 0.00050 1 7.03 0.002 09/30/99 Maxim 0.055 3.4 3.2 0.00040 0.0004 0.002 0.002 05/18/00 Maxim 0.935 3.5 3.5 0.00140 0.65 0.008 0.008 05/18/00 Maxim 0.780 0.00140 0.65 0.008 0.008 0.008	04/23/98 UOS Data 0.112 3.5 3.08 0.745 6.92 1.26 0.50 05/05/98 UOS Data 4.783 3.6 2.51 0.535 3.03 0.552 0.03 05/12/98 UOS Data 4.783 2.26 1.77 0.0443 2.82 0.048 0.0 05/05/98 UOS Data 2.172 3.9 1.77 0.036 2.71 0.231 0.034 0.0 05/06/99 Maxim 0.2244 3.4 3.5 0.00020 0.41 1.85 0.007 1.32 0.031 0.007 1.32 0.002 0.162 0.062 0.162 0.002 0.162 0.002 0.162 0.002 0.162 0.002 0.162 0.002 0.162 0.002 0.162 0.002 0.162 0.002 0.162 0.002 0.162 0.002 0.162 0.002 0.162 0.002 0.133 0.002 0.162 0.002 0.162 0.002 0.162 0.002 0.162 0.003 1.32 0.003 <td>04/23/9B UOS Data 0.112 3.5 3.08 0.745 6.92 1.26 05/05/9B UOS Data 0.217 3.6 2.51 0.535 3.03 0.502 0.502 05/05/9B UOS Data 4.783 3.7 2.26 0.343 0.361 0.348<</td> <td>W-3</td> <td>03/27/98 UOS Data</td> <td>0.17</td> <td>3.3</td> <td>e,</td> <td></td> <td></td> <td></td> <td></td> <td>0.691</td> <td>7.35</td> <td></td> <td>1.31</td> <td>0.177</td>	04/23/9B UOS Data 0.112 3.5 3.08 0.745 6.92 1.26 05/05/9B UOS Data 0.217 3.6 2.51 0.535 3.03 0.502 0.502 05/05/9B UOS Data 4.783 3.7 2.26 0.343 0.361 0.348<	W-3	03/27/98 UOS Data	0.17	3.3	e,					0.691	7.35		1.31	0.177
05/05/98 UOS Data 0.217 3.6 2.51 0.535 3.03 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	05/105/98 UOS Data 0.217 3.6 2.51 0.502 0.0 0.0 0.518 0.518 0.502 0.0 0.0 0.517 0.0 0.0 0.4 0.518 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	O5/05/98 UOS Data 0.217 3.6 2.51 0.502 0.503 0.503 0.502	W-3	04/23/98 UOS Data	0.112	3.5						0.745	6.92		1.26	0.177
05/13/98 UOS Data 4.783 3.7 2.26 0.443 2.82 0.443 2.82 0.443 0.282 0.443 0.282 0.361 2.77 0.5099 Maxim 0.224 3.4 3.9 0.00010 0.9 7.49 0.007 0.902 0.9030 Maxim 0.306 3.3 3.1 0.00050 0.41 7.03 0.002 0.9130/99 Maxim 0.055 3.4 3.2 0.00140 0.58 6.2 0.008 0.58 0.57 0.58 0.593 0.58 0.593	05/13/98 UOS Data 4.783 3.7 2.26 0.349 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	O5/13/98 UOS Data 4,783 3.7 2.26 0.348 0.05 05/29/98 UOS Data 2,172 3.9 1,77 0.00110 0.361 2,71 0.231 0.231 05/29/99 Maxim 0,2244 3.4 3.5 0.00020 0.41 1,85 0.007 1,35 09/30/99 Maxim 0,055 3.4 3.2 0.00050 1 7.03 0.002 0.162 05/18/00 Maxim 0,055 3.4 3.2 0.00140 0.86 6.2 0.002 1,32 05/18/00 Maxim 0,935 3.5 3.5 0.00140 0.86 6.2 0.008 1,32 0.797 3.5 0.797 3.5 0.004 0.62 0.008 1,32 0 = number of samples 0.797 3.5 0.004 0.62 0.008 1,32		05/05/98 UOS Data	0.217	3.6						0.535	3.03		0.502	0.0965
05/2898 Maxim 0.2244 3.4 3.9 0.00110 0.361 2.71 0.007 0.508 Maxim 0.224 3.4 3.9 0.007 0.0020 0.913099 Maxim 0.306 3.3 3.1 0.00050 0.41 1.85 0.002 0.913099 Maxim 0.305 3.4 3.2 0.00140 0.00140 0.306 0.305 3.4 3.2 0.00140 0.306 0.306 0.305 0.305 0.307 0.3	05/2018	Colsology Maxim 0.2172 3.5 1.77 0.00110 0.361 2.71 0.231 0.031 0.031 0.031 0.031 0.031 0.031 0.031 0.031 0.031 0.031 0.031 0.031 0.031 0.031 0.031 0.032 0.135 0.035		05/13/98 UOS Data	4.783	3.7						0.443	2.82		0.348	0.0689
07/09/99 Maxim 0.2244 3.4 3.2 0.00010 0.9 7.007 0.007 07/09/99 Maxim 0.306 3.3 3.1 0.00020 0.007 1 7.03 0.002 0.002 0.001 0.005 0.002 0.002 0.005 0.00	03/00/99/89 Maxim 0.524 3.4 3.5 0.00010 0.9 7.49 0.007 1.35 0.00010 0.99 0.007 1.35 0.0002 0.9002 0.	03/00/29 Maxim		05/29/98 UOS Data	2.172					07700		0.361	2.71	1	0.231	0.0547
09/30/99 Maxim 0.306 3.3 3.1 0.00050 1 1 7.00 0.002 0.002 0.002 0.002 0.005 3.4 3.2 0.00140 0.005 0.86 6.2 0.008 0.002 0.018/00 Maxim 0.935 3.5 0.008 0.58 0.008 0.58 0.59 0.58	09/30/99 Maxim 0.306 3.3 3.1 0.00050 17 7.03 0.002 0.102 0.102 0.102 0.102 0.102 0.102 0.102 0.102 0.102 0.102 0.102 0.102 0.103 0.002 0.103 0.002 0.103 0.003 0.003 0.103 0.003 0.103 0.003 0.103 0.003 0.1	09/30/99 Maxim	N-3	03/09/99 Maxim 07/09/99 Maxim	7.53	2, 4				0.0000		0.9	7.49	0.007	1.35	0.29
05/18/00 Maxim 0.935 3.5 0.008 10.008 0.55 0.54 0.55 0.008 0.55 0.54 0.55 0.508 0.55 0.508 0.55 0.508	04/1300 Maxim 0.055 3.4 3.2 0.00140 0.86 6.2 0.008 1.32 0.51800 Maxim 0.935 3.5 0.009 0.58 0.58 0.62 0.009 0.62 0.62 0.009 0.009 0	04/13/00 Maxim 0.055 3.4 3.2 0.00140 0.86 0.20 0.002 1.3 0.41/3/00 Maxim 0.055 3.5 0.008 1.32 0.004 0.58 0.58 0.58 0.58 0.008 1.32 0.008 1.32 0.51/8/00 Maxim 0.797 3.5 0.008 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62	N-3	09/30/99 Maxim	905.0	100				0.00020		† †	1.03	0.002	0.162	0.06
05/18/00 Maxim 0.935 3.5 0.58	05/18/00 Maxim 0.935 3.5 0.58 05/18/00 Maxim 0.797 3.5 0.62 mof = milliorans/iller, su = standard units 0.62 0.62	05/18/00 Maxim 0.935 3.5 0.62 05/18/00 Maxim 0.797 3.5 0.62 mg/f = miligrams/lier, su = standard units <= less than date-tion	W-3	04/13/00 Maxim	0.055	3.4				0.00140		0.86	6.2	0.008	1.32	0.183
05/18/00 Maxim 0.797 3.5	05/18/00 Maxim 0.797 3.5 0.62 mof = milliorams/filer.su = standard units	05/18/00 Maxim 0.797 3.5 0.62 mg/l = milligrams/filer, su = standard units	W-3	05/18/00 Maxim	0.935	3.5						0.58				0.11
C. C		mg/l = milligrams/liter, su = standard units c = less (han detection	W-3	05/18/00 Maxim	0.797	3.5						0.62				0.12

TABLE A-1 - STATISTICAL SUMMARY OF WATER QUALITY DATA 1989-2004 New World Mining District Response and Restoration Project

Cold	Sample	Sample Data Source		Flow (cfs)	Lab pH (su)	Total Rec. Al (mg/l) Flag		Total Rec. As (mg/l) Flag	Total Rec. (mg/l)	8 8	Total Rec. Cr (mg/l) Flag	Total Rec. Cu	Total Rec.	Figure	Total Rec. Pb	Total Rec.	ec. Mn	F	Z 2
Control Cont	Chronic St	andard (for Hardness = 5	0 mg/l)						0.00142	•		0.0052	Ļ		Т	1	Т	1	E L
Oct (1000) Maximum 1544 3.3 2.5 D 100000 0.65 3.19 0.05<	Acute Sta	ndard (for Hardness = 50	(l/du)		Sal and	0.75	F	0.34	0.00208		0.984	0.0073	AN	T	0.014	42	+	7000	1
Octobro Name 0.389 3.5 1.5	V-3	05/18/00 Maxim		1.04	3.5	N			0.00040			0.6	3 16		0.003	5	25.0	200.0	
Control Manuman Control Ma	۷-3	05/18/00 Maxim			3.5							0.62			2		000	o c	2 0
Octaoo Manuers Color Co	۳- ۲-	05/18/00 Maxim		0.809	3.5							0.63						ö	2 2
OKY TOOL NAME E 52 3.9 ORDINITY C 52 3.1 C 52 ORDINITY C 52 3.1 C 52 A 52 ORDINITY C 52 A 51 A 52 C 52 A 52	5-7-2	U6/18/00 Maxim		7.18	9	1,8	1		0.00020			0.43	2.67		0.003		0.18	0.0	74
October Octo	7.7	06/18/00 Maxim		6.37	יי מי		-					0.46						0.0	35
Company Comp	K-3	06/18/00 Maxim		5.52	3.0		-			İ		4 4				1	-	0.0	22
Orderoo Massimi	V-3	07/08/00 Maxim		3.02	3.7					İ	and the state of t	0.44						0.0	9 !
Overlegot Nation 3.16 3.77 3.17 3.	1-3	07/08/00 Maxim		3.03	3.7	23	-	-				0.52.0	2.4.4	-	0000			0.0	7,7
October Octo	1-3	07/08/00 Maxim		3.16	3.7		-					1 220	2	,	0.002			0.00	0 0
Objective Maximal 2.8 0.00010 0.00110 0.005	1-3	07/08/00 Maxim		3.3	3.7					L		0.74.1	representations of parents are a series					0.0	2 5
1991/1000 Maxim 34 2.8 0.00000 0.0000	ر. رج	08/16/00 Maxim				2.8			0.00110			0.95	5.21		200 0	-	108	2.00	2 4
COUNTION Maxim Countin	5	09/01/00 Maxim			3.4	2.8			0.00060	-		0.82	7 38		0000		7 7 6	5	2 0
101/1010 Maxim 2.9 2.9 0.00000 0.0 0	 	09/17/00 Maxim				3.1						0.76			0.000		- u	5 6	D 4
October Octo	5	10/19/00 Maxim			2.9	2.9			0.00010	v		0.67	7 84	_	2000		200	5 6	0 0
Octation Maxima Octation	5	12/06/00 Maxim			3.3	m			0.00100			0.72	5 AA		2000		200	5 6	n c
DECENTION Maximal A 200 3	6.5			0.103	3.4	2.6			0.00100			0.74	6.21	-	0.00		113	5 6	0 0
Obsized Maxima 0.27 3.5 2.4 0.00000 0.63 6.5 0.0007 0.0007 0.0000 0.00000 0.00000 0.00000 0.000000 0.000	ę				3.9	1.7		0.0030 <	0.00010	v		0.48	1 92		00000		7 0	5 6	7 4
October Octo	ņ			4.208	3.7	2.5	L					0.53	1.02 1.03		0.000		2.0	0.0	2
Original National Color Original National Color Original National Color Original National Color Original National Color Original National Color Original National Color Original National Color Original National Color Original National Color Original National Color Original National Color Original National Color Original National Color Original National Nation	e,			0.29	3.3	2.7			0.00560		The same of the sa	0.84	101		0.000	,	47	200	2 4
Original National N	ç			0.27	3.5	2.4			0.00110			0.67	5 70		2000	- 0	70.0	5 6	ח
O/O/D102 Maxim 7.8 4 17.4 0.0003 0.0003 0.0003 0.0003 0.0003 0.0003 0.0003 0.0003 0.0003 0.0003 0.00003 0.0003 0	6	04/26/02 Maxim		0.37	3.4	3.1			0.001	İ		0.83	7.1		9000	, ,	200.0	5 6	0 0
1-04000 Maxim 0.29 3.4 3.5 0.0001 0.0002 0.0003	e,	07/01/02 Maxim		7.6	4	1.7 J			0.0003			0.54	4.31		0.003		2 0	5 6	0 0
25-Appt-03 Maximaria 6.57	က္	10/08/02 Maxim		0.29	3.4	3.6			0.001			0.85	10.6		0.00	-	48	2.0	2 -
Octobio Octo	က္	23-Apr-03 Maxim		0.05	3.1	2.51			0.0012			0.83	6.92		0.008		1.3	0.5	· w
1-4440-30 Maxim	2	01-Jul-03 Maxim		6.57	4	1.62			0.0002			0.45	2.32		0.002	0	0.29	0.0	2
Cartering Cart	2 0	31-Jul-03 Maxim				2.83	+	> 1000	0.0005			1.04	5.38		0.005	0	9.78	0.1	4 JF%
2.2-Augo3 Maxim 0.258 3.5 3.6 0.0009 0.10 0.10 0.15 1.5 0.01 3.5-Augo3 Maxim 0.258 3.5 2.6 0.0009 0.0009 0.00 <td< td=""><td>2 6</td><td>21-Aug-03 Maxim</td><td></td><td></td><td></td><td></td><td>1</td><td>0.00.0</td><td>0.0000</td><td></td><td>***************************************</td><td>U. 1.</td><td>6.13</td><td></td><td>0.01</td><td></td><td>1.31</td><td>0.1</td><td>60</td></td<>	2 6	21-Aug-03 Maxim					1	0.00.0	0.0000		***************************************	U. 1.	6.13		0.01		1.31	0.1	60
30-58-7-33 Maxim 0.258 3.5 2.858 0.00005 0.0005	. 65	22-Aug-03 Maxim		-	Ī	3.1	-		9000			000	10.5	Ì	0.009		1.5	0	4 (
CS-Apt-d4 Maxim CS-Apt-d4	ņ	30-Sep-03 Maxim		0.258	3.5	2.86	-		0.0008			200	0.00		0000		24.		י מ
28-Jun-John Maxim 9.32 4.2 2.27 0.0002 0.005 0.0005 0.00	6	05-Apr-04 Maxim	-	0.136	3.6	2.2			0.0008			0.7	234		0.00		4 0	2.0	. ·
05-Oct-04 Maxim 0.35	5	28-Jun-04 Maxim		9.32	4.2	2.27	_		0.0002	+	-	0.37	3.84		0.000	-	1.0	5 6	2 4
UNITARY STRAIN (SD) 45 40 34 19 26 18 40 40 25 31 40 40 34 40 34 19 26 0.0005	ب	05-Oct-04 Maxim		0.35	4.1	1.52			0.0005			0.6	0.87		0.002		20	. 0	2 00
um 0.112 2.400 0.0550 0.00010 0.00010 0.00015 0.00010<	ion SW-3	: Pre-1999 Samples (n)		45	40	34		19	26		75	40	700		300	,			2 0
um (7.890 4.100 4.800 0.0050 0.0078	milm.			0 112	2 400	0500		0000	0 00040		0 0000	0000	40		52 52		31	4	0
ard Deviation (SD) 4.818 3.565 2.529 0.0021 0.00036 0.00078 0.00078 0.00078 0.00078 0.00078 0.00078 0.00078 0.00078 0.00079 0.0009 0.0009 0.0009 0.0009 0.0009 0.0009 0.0009 1.500 1.500 0.0009 1.500 0.0009 1.500 0.0009 1.500 0.0009 1.500 0.0009 1.500 0.0009 1.500 0.0009 1.500 0.0009 1.500 1.500 0.0009 1.500 1.500 1.500 1.500 1.500 1.500 1.500 1.500 1.500 1.500 1.500 1.500 1.500 1.500 1.500 1.500	in in			7 800	4 100	4 800		0.0000	0.00010		0000	0.030	0.013		1000	0	110	0.01	0
ard Deviation (SD) 4.991 6.25D; for pH; Mean - (2 × SD) 6.25D 6.2D				4 818	3 585	2 529		0.0030	0.00020		0.0200	0.520	009,11		0.009	1.6	970	0.23	-
+(2 x SD); for pH; Mean - (2 x SD)	odard Dev	iation (SD)		4 991	0.315	1 041		0.0021	0.00076		0,0078	0.077	2,483		0.005	0.0	585	0.10	m 1
Name Care SD) Care SD) <th< td=""><td>an + (2 x S</td><td>(D), for pH: Mean - (2 x S</td><td></td><td>14.800</td><td>2.935</td><td>4.611</td><td></td><td>0.0043</td><td>0.00207</td><td></td><td>0.0030</td><td>1.258</td><td>0.440</td><td></td><td>0.002</td><td>0 4</td><td>2007</td><td>0.00</td><td>m</td></th<>	an + (2 x S	(D), for pH: Mean - (2 x S		14.800	2.935	4.611		0.0043	0.00207		0.0030	1.258	0.440		0.002	0 4	2007	0.00	m
um 0.050 2.400 0.050 0.001 0.030 0.015 0.011 0.101 num 17890 4.200 4.800 0.005 0.006 0.002 1.530 22.000 0.013 1.740 and Devisition (SD) 4.702 3.561 0.005 0.005 0.006 0.005 0.006 0.005 <	tion SW-3	: 1989-2004 Samples (n	The state of the s	74	74	64	THE SECOND	23	555		2 8	08	700	İ	600.0		3 6	77.0	n 0
Turn (T.890 4.200 4.800 0.005 0.006 0.020 1.530 22.000 0.013 1.740 (A.800 0.005 0.003 0.003 0.013 1.740 (A.800 0.005 0.003 0.0	mnm			0.050	2.400	0.050		0.001	0000		0.001	0.030	0.015		0.001	0	110	20 00	5 C
ard Deviation (SD) 4.002 3.588 2.561 0.002 0.001 0.008 0.693 5.288 0.005 0.807 4.14 0.310 0.884 0.001 0.005 0.248 3.38 0.003 0.518 +(2 x SD); for pH; Mean - (2 x SD) (2 x	imum			17.890	4.200	4.800		0.005	9000		0.020	1.530	22.000		0.013	1	740	27.0	, ,
ard Deviation (SD) 4.414 0.310 0.884 0.001 0.005 0.248 3.338 0.003 0.518 F(x x SD); for pH; Mean - (2 x SD) 12.830 2.868 4.289 0.004 0.002 0.018 1.188 11.964 0.011 1.843 n SW-3: 1999-2004 Samples (n) 2.8 34 30 4 2.8 0.018 1.188 11.964 0.011 1.843 n SW-3: 1999-2004 Samples (n) 2.8 34 30 4 2.8 0.01 1.188 11.964 0.011 1.843 um 2.05 2.800 1.500 0.000 0.000 0.000 0.000 0.000 0.002 0.001 um 2.736 3.615 2.587 0.001 0.001 0.000 0.000 0.000 0.002 0.001 0.001 0.001 0.001 0.002 0.001 0.001 0.002 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 </td <td>30</td> <td></td> <td></td> <td>4.002</td> <td>3,588</td> <td>2.561</td> <td></td> <td>0.002</td> <td>0.001</td> <td></td> <td>0.008</td> <td>0.693</td> <td>5,288</td> <td></td> <td>0.005</td> <td>0</td> <td>R07</td> <td>012</td> <td>-</td>	30			4.002	3,588	2.561		0.002	0.001		0.008	0.693	5,288		0.005	0	R07	012	-
+(2 x SD); for pH; Mean - (2 x SD) 12830 2.866 4.289 0.004 0.002 0.018 11.188 11.1964 0.011 1.843 1.84	ndard Dev	fation (SD)		4.414	0.310	0.864		0.001	0.001		0.005	0,248	3.338		0.003	0.6	518	0.09	
SW-3: 1999-2004 Samples (n) 28 34 30 4 29 0 40 30 30 30 30 um 0.050 2.900 1.500 0.001 0.000 0.000 0.370 0.870 0.002 0.162 num 9320 4.200 3.890 0.000 0.000 1.150 22.000 0.013 1.740 and Devision (SD) 2.736 3.615 2.587 0.001 0.001 0.708 6.358 0.006 0.332 and Devision (SD) 2.987 0.307 0.652 0.001 0.001 0.188 4.048 0.003 0.508 num Standard SWA3 0.002 0.002 0.003 0.003 0.003 0.508 0.012 1.948	an + (2 x S	(2 x S); for pH: Mean - (2 x S		12.830	2.968	4.289		0.004	0.005		0.018	1.188	11.964		0.011	1.6	843	0.31	2
um 8.050 2.900 1.500 0.001 0.000 0.000 0.370 0.870 0.002 0.162 0.001 0.000 0.002 0.002 0.162 0.001 0.002 0.003 0.0	tion SW-3	: 1999-2004 Samples (n		29	34	30		4	29		0	40	30		30	NAME AND DESCRIPTION OF THE PERSONS ASSESSMENT	30	4	0
Tulm 81320 4200 3.890 0.002 0.006 0.000 1.150 22.000 0.013 1.740 1	mnm			0.050	2,900	1,500		0.001	0.000		0.000	0.370	0.870		0.002	0.1	162	0.01	0
ard Deviation (SD) 2.4756 3.615 2.597 0.001 0.001 0.001 0.708 6.358 0.006 0.932 0.001 0.00	KIMUM			9320	4.200	3.900		0.002	0.006		0.000	1,150	22.000		0,013	1.7	740	0.71	0
2.867 0.307 0.052 0.001 0.001 0.198 4.048 0.003 0.508 0.508 0.001 0.002 0.003 0.003 0.508 0.001 0.002 0.003	an an	1001		2.736	3,615	2.597		0.001	0.001			0.708	6.358		900'0	3.0	832	0.13	00
64 10 5.00 1.104 14.455 0.012 1948	ndard Dev	nation (SD)		7987	3 000	3 844		0.001	0.001			0.198	4.048		0.003	0.6	208	0.12	0
	10 011	ordered States		2	2000	204		2000	2000			104	14.455		0.012		948	0.37	G

n = number of samples

Maxim Technologies

< = less than detection J = estimated value

Page 4

< = less than detection J = estimated value Revised: 3/7/05

Maxim Technologies

 TABLE A-1 - STATISTICAL SUMMARY OF WATER QUALITY DATA 1989-2004

 New World Mining District Response and Restoration Project

Sample Station	Sample Date Data Source	Flow (cfs)	Lab pH (su)	Aluminum Total Rec. Al (mg/l) Flag	_	Arsenic Total Rec. As (mg/l) Flag	Cadmlum Total Rec. Cd (mg/l) Fla	Cd Total Rec. Cr Flag (mg/l) Flag	Copper Total Rec. (mg/l)	Cu Flag	fron Total Rec. Fe (mg/l) Flag	Lead Total Rec. (mg/l)	Manganese Pb Total Rec. Flag (mg/l)	. Mn	Zinc Total Rec. Zn (mg/l) Flag
Chronic Star	Chronic Standard (for Hardness = 50 mg/l)			0.087	0.	0.15	0.00142		0.0052		Г	0.0005	L		Г
Acute Stant	Acute Standard (for Hardness = 50 mg/l)			0.75	0	0.34	0.00206	0.984	0.0073		¥.	0.014	Ą		0.067
SW-4	08/02/89 Hydrometrics Data			> 1.0		0.005 <	> 100.0		0.03		0.03 <	> 10.0			0.01
SW4	09/15/89 Hydrometrics Data	1.35	4. 6 4. 6			0.005 <	0.001 v 100.0		0.09		0.09	> 10.0		7.	0.07
SW-4	03/17/90 Hydrometrics Data	2	9 6			0.005 <	0.001 ×		0.0		0.00 0.04 0.05	0.01		2 2	0.05
SW-4	05/29/90 Hydrometrics Data	15.4	6.9	0.8		0.005 <	0.0001 <	0.02 <	0.116		0.71	0.002 <	0.05	, rc	0.0
SW-4	06/05/90 Hydrometrics Data	27.84	6.3						0.08		0.42			2	0.02
SW-4	06/13/90 Hydrometrics Data	30.73	6.7						90.0		0.21				0.05
5W4	06/15/90 Hydrometrics Data	21.9		ć							;				
\$ MY	05/20/90 Hydrometrics Data	47.46 88.8	D. 0	0.3			0.001 <	0.02 <	0.08		0.39	0.01 <	0.04	4	0.41
SW4	06/26/90 Hydrometrics Data	112.4	6.4	0.5		0.005 <	0 0000	> 000	0 0R7		1 03	, ,	Č	ų	c c
SW-4	06/28/90 Hydrometrics Data	100.37		}				1	9		20:-	0.002	60.0	ū	0.02
SW-4	07/03/90 Hydrometrics Data	83.9	6.5	0.4			0.002	0.02 <	0.08		0.65	0.01	0.04	4	0.02
SW-4	07/05/90 Hydrometrics Data	49.4													
SW-4	07/05/90 Hydrometrics Data		6.6												
SW-4	07/06/90 Hydrometrics Data		6.7												
SW4	07/07/90 Hydrometrics Data		7												
5 M 4	07/08/90 Hydrometrics Data	C		c			7000				!				
5W4	07/10/90 Hydrometrics Data	30.b	9.0	0.3			0.001 <	0.02 <	60.0		0.43	0.01 <	0.05	5	0.03
SW.A	07/10/90 Hydrometrics Data		9 4												
SWA	07/12/90 Hydrometrics Data	25	o w												
SW-4	07/12/90 Hydrometrics Data	2	9 40												
SW4	07/13/90 Hydrometrics Data		9 69												
SW-4	07/14/90 Hydrometrics Data		6.5												
SW-4	07/15/90 Hydrometrics Data		6.4												
SW-4	07/16/90 Hydrometrics Data		6.5												
SW-4	07/17/90 Hydrometrics Data	14.4	6.5	0.4					0.14		0.49				0.03
SW-4	07/17/90 Hydrometrics Data		6.4												
SW-4	07/18/90 Hydrometrics Data		6.4												
SW4	07/19/90 Hydrometrics Data	11.7	6.3												
SW-4	07/19/90 Hydrometrics Data		6.4												
5W4	07/20/90 Hydrometrics Data		0.0												
14/4	07/21/90 Hydrometrics Data		. u												
SWA	07/23/90 Hydrometrics Data		9 6												
SW4	07/24/90 Hydrometrics Data		99												
SW-4	07/25/90 Hydrometrics Data		6.7												
SW-4	07/26/90 Hydrometrics Data		6.7												
SW-4	07/27/90 Hydrometrics Data	7.1		0.3		0.005 <	0.0004	0.02 <	0.16		0.44	0.002 <	0.1	-	1.95 J
SW4	07/27/90 Hydrometrics Data		6.8												
SW4	08/14/90 Hydrometrics Data	2.6													
SWA	08/13/90 Hydrometrics Data		a a												
SW-4	09/25/90 Hydrometrics Data	3. 4.	5.00	0.3		0.005 <	50000	0.00	0		0.23	10000		,	0
SW-4	03/15/91 Hydrometrics Data	0.8	6.4			0.005 <	0.001	0.02 <	0.06		0.03 <	0.01 <	0.02	× 0	0.03
SW-4	06/05/91 Hydrometrics Data	55.3	6.9			0.001 <	0.0001 <	0.02 <	0.05	v	> 20.0	0.002 <		۵ ا	0.01 <
SW-4	07/09/91 Hydrometrics Data	21	6.7			0.005 <	0.0002	0.02	0.1		0.38	0		ıΩ	0.03
SW-4	08/14/91 Hydrometrics Data	1.7	(C)			0.005 <	0.0002	0.02 <	0.15		0.21	0.002 <		2	0.07
SWA	09/24/91 Hydrometrics Data	77 78	7.4			0.000 0	0.0006	0.02 0	0.11		0.24	0.002 <	0.0		0.04
SW4	07/19/92 Hydrometrics Data	1	7.3			0.005 <	0.0002	, 10.0 , 10.0	0.29		7.1 <	0.002 <	0.03	ກແ	0.02
SW-4	07/22/92 Hydrometrics Data		6.8										Š	,	
SW-4	08/20/92 Hydrometrics Data		9.9												
lotes: mg/l = n	Votes: mg/l = milligrams/liter, su = standard units	s						;							
ש = שחש	n = number of samples						< = less than detection .1 = estimated value	detection							NA - not applicab

TABLE A-1 - STATISTICAL SUMMARY OF WATER QUALITY DATA 1989-2004 New World Mining District Response and Restoration Project

0	n	Т	T		_	_	_	_			_			-	_	_			_			_	_			_	_				_	_	_	_		_				_					
Zinc Total Rec. Zn (mq/l) Flao	Г	0.067	100.0	0.03	2000	0.00	0.042	0.07	9.0.0	0.021 J	0.026 <	> 80.0	7 9000	0.03	0.05	0.01 <	0.02	0.08 J	0.02	0.03 <	0.03	0.06					0.05	0.03	0.02	0.06 J	L L C C C	0.02 <	0.04	0.04	0.08	0.02	0.09	0.04	0.02 J	0.07 J	0.08	0.01	0.13	0.05	0000
Manganese Total Rec. Mn T	Г	ΨN		2.0	0.0	2.0	2 6	> 10.0	0.00	0.02	0.07	0.12	50.0	0.067		0.031			0.033			0.15					0.021	0.027	0.028	0.072	0,0,0	0.014	0.058	0.065	0.008	0.048	600.0	0.006	0.051	0.088	0.013	0.044	0.005	0.045	8200
Pb				/ v	v	v		,	١	v 1	/ \	/ v	v			v		1	v			v					v	v	v 1	v 1			v	v	v	_	v	v	v	v 1	v v	, v	v		v
Lead Total Rec. (mg/l)	0.0005	0.014	0000	0.002	0.000	0.000	7 2000	0.002	0000	0.002 0	0,000	0.002 <	0.003 <	0.005		0.003		0	0.003 <			0.003					0.001	0.001	0.001	0.00	0.00	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.00	0.00	0000	0.001	0.003	0.001
Fe Flag				. 10		. ~	٧.	,		-	,	n or	· +	_	2 J	10	4	١,										α.		. ~	v	_	7	_	_	_		v .			_				
Total Rec. (mg/l)	-	ž	0 17	0.65	0.3	0.33		2.25	1 0	50.0	0.00	0.03	0.44	3.17	0.62	0.35	1.14	7.77	0.00	45.0	0.31	0.17					0.03	0.29	0.24		000	0.3	0.0	0.09	0.0	0.43	0.1	0.0	0.0	5	0.29	0.02	0.02	1.48	0.06
Cu				. ب	-	-	2	, -	0.07.1	3 -	,) (r)	9	0	ις.	ي	g.	- 1	- u		2	4					9	1 00		- 00	0 4	2	7	7	00	o	60 (· ·	- 4		0 ~	. თ	4	_	
Total Rec. (mg/l)	0.0052	0.0073	0 117	0.14	0.1	0.1	0.06	0.11		0.00	0.173	0.063	0.086	0.139	0,055	990'0	0.066	0.11	10.00	120	0.17	0.154					0.0	0.08	9 0	200	0.06	0.1	0.05	0.067	0.038	0.08	0.058	0.03	1.0	0.003	0.07	0,079	0.04	0.11	0.05
C. Flag			0.01 <	V .	1 <	\ \	\ \	<u> </u>	V		1 -																																		
Total Rec. (mg/l)	0.117	0.984	9	0.00	0.001 <	> 10000	0.001 <	0.001 <	0.001 <	0.002	0.001																																		
Flag			4	-	2	2	22	·	-		· (r)	-	<u>v</u>	_		-		V	,			3 J					.		- ~		4	v	٧	v	m	2 (m (,	<u></u>	. ~	v	. 01	٥.	v	•
Total Rec. (mg/l)	0.00142	0.00206	0.0004	0.0001	0.0002	0.0002	0.0005	0.0001	0.0001	0.0001	0.0003	0.0001	0.0001 <	0.0001		0.0001		0.0001				0.0003					0.0004	0.000	0.000	0.0003	0.0004	> 100001	> 100001	0.0001 <	0.0003	0.0002	0.0003	0.0003	0000	0.000	0,0001 <	0.0002	0.0002	> 100001	0.0002
. As Flag		3	5 <	× 1	<u>ا</u> ۷	1 <	1 ×	Ξ	0.001 <	v =	0.001 <																										v								
۲	0.15	0.34	0.005 <	> 10000	> 100.0	> 100.0	0.00	0.001	0.00	0.001 <	0.0																									0	0.003 <								
A F			.3	.3	7		.1.	80	.5	5	2	0.2	4.	Τ.		7		2.1) !			4.					v	j u	, , ,	v .	> 9	.3 J	<u>۲</u>	v Tar	٧ , د	J (7 -	/ -	j	× × ×	ις.	5 <	5 <	80	2
Total Rec. (mg/l)	0.087	0.75						0						-				O				o															7 7 7					0.05			0.1
Lab pH (su)			6.6	7.1	9.9	7.1	6.7		6.7	6.1	5.9	9	7	5.7	9	9.9	7 00		6.3	7.8	6.3	5.6	7	6.5	6.9	9.00	7.7	7.7	7.1	6.9	6.7	7	6.2	KO I	7 2).0 2	7.7	7.2	6.3	7.4	6.5	7	7.4	7.4
Flow (cfs)			1.95	19.92	1.98	1.98	0.4	75.23	33.79	43.74	1.34				33.7	72.157		54.84	26.42	19.92	4.315	1.46	0.69	0.578	1	4.783	24.0	12:100	1.46		0.837	15.48	1.39	6	0.62	23.04	0.61	47	191		40.8	0.903	0.784	70,91	3.21
Data Source	Chronic Standard (for Hardness = 50 mg/l)	Acute Standard (for Hardness = 50 mg/l)	09/23/92 Hydrometrics Data	07/21/93 Hydrometrics Data	09/21/93 Hydrometrics Data	09/21/93 Hydrometrics Data	03/02/94 Hydrometrics Data	05/26/94 Hydrometrics Data	06/15/94 Hydrometrics Data	07/14/95 Hydrometrics Data	09/27/95 Hydrometrics Data	05/21/96 Hydrometrics Data	05/29/96 Hydrometrics Data	06/05/96 Hydrometrics Data	06/12/96 Hydrometrics Data	06/19/96 Hydrometrics Data	00/20/90 hydrometrics Data	07/11/96 Hydrometrics Data	07/18/96 Hydrometrics Data	07/25/96 Hydrometrics Data	08/21/96 Hydrometrics Data	09/11/96 Hydrometrics Data	03/27/98 UOS Data	04/22/98 UOS Data	05/05/98 UOS Data	UOS Data	Maxim	Maxim	Maxim	Maxim	Maxim	Maxim	Maxim	Maxim	Maxim	Maxim	Mexim	Maxim	Maxim	Maxim	Maxim	Maxim	Maxim	Maxim	Waxim
Sample Date	tandard (for I	andard (for H.	09/23/92	07/21/93	09/21/93	09/21/93	03/02/94	05/26/94	06/15/94	07/14/95	09/27/95	05/21/96	05/29/96	06/02/36	06/12/96	06/36/36	02/02/98	07/11/96	07/18/96	07/25/96	08/21/96	09/11/96 1	03/27/98	04/22/98 (05/05/38	1 SOU 86/21/20	02/00/99 Maxim	07/09/99 Maxim	09/30/99 Maxim	09/30/99 Maxim	04/13/00 Maxim	07/08/00 Maxim	10/19/00 Maxim	mixel 00/81/01	mixeM 1/0/12/90	10/11/01 Maxim	10/11/01 Maxim	07/01/02 Maxim	10/08/02 Maxim	23-Apr-03 Maxim	01-Jul-03 Maxim	30-Sep-03 Maxim	05-Apr-04 Maxim	28-Jun-04 Maxim	05-Oct-04 Maxim
Sample	Chronic S	Acute St	SW-4	SW-4	SW-4	SW-4	SW4	SW-4	5W4	SWA	SW-4	SW-4	SW-4	SW4	SW-4	SW4	SW4	4 MA	\$ CAN	D.M.A	SW-4	SW-4	SW-4	SW-4	SW-4	SW-4	† And	SW4	† MO	SW.A	SW-4	SW-4	SW-4	SW-4	SW-4	SW-4	SW4	SW-4							

Notes: mgl = milligramsfliter, su = standard units n = number of samples

Maxim Technologies

< = less than detection J = estimated value

TABLE A-1 - STATISTICAL SUMMARY OF WATER QUALITY DATA 1989-2004 New World Mining District Response and Restoration Project

(8)	(mg/l) (0.087 0.75 0.75 0.050	Flag (mg/l) Flag	CON KINCO				1000	Total Dog Ma	
mg/l) mg/l) 10,400 112,400	0.087 0.050 0.050 1.700 0.349	0.15	(100/1)	(mad) Elsa	(mail)	ç	Oldi Rec.	Oldi Nec.	Ü
ng/l) 12.400 112.400 112.400 112.400 112.400 123.632 23.632 28.632 28.634 0.400 112.400 112.400 112.400 112.400 112.400 112.400 112.400 112.400 112.400 112.400 112.400 112.400 112.400 112.400 112.400 112.400 112.400 112.400 112.400	6	0.75	1,6	(infairi)	Spirit (MSIII)	BRLJ (Mitt)	4	(mg/l) Flag	(mg/l) Flag
ng/l) 47 0.400 112.400 26.634 30.503 87.641 63 0.400 112.400 23.932 23.932 22.9327 16 17 16 16 16 16 17 16 16 1	0	PE 0	0.00142	0.117	0.0052		0.0005	NA	0.067
0.400 112.400 26.634 30.503 30.503 0.400 112.400 23.932 28.927 30.420 11.766 0.420			0.00206	0.984	0.0073	NA.	0.014	¥.	0.067
0.400 112.400 26.634 30.503 30.503 30.603 112.400 112.400 112.400 112.400 112.400 117.86 91.786		24	33	23	42	42	33	23	42
112,400 26,634 30,503 87,641 112,400 112,400 23,932 28,927 81,786 16 0,420		0.001	0000	0.001	0.025	0.015	2000	2000	2 0000
26.634 30.503 87.641 63 0.400 112.400 22.832 28.927 28.927 (1) 61.786 0.420		0.003	0.002	0.020	0.290	3 550	0.000	0.003	0.000
30.503 81.564 63 0.400 112.400 23.932 24.932 25.932 26		0.002	00000	0.007	0.101	0.592	0.000	0.100	0.00
87.641 63 0.400 112.400 23.932 28.927 81.786 0.420	54 0.324	0.001	0.000	0.005	0.048	0.785	0.002	0.072	0.00
63 0.400 112.400 23.932 28.937 28.937 81.786 0.420		0.0037	0.00107	0.0170	0.196	2.162	0.007	0.166	0.300
0.400 112.400 23.932 28.927 28.927 (0.420	92 57	25	54	23	R3	83	2		
112.400 23.832 28.827 28.827 (0.420)	0.0	0.001	0000	0.001	0.025	0000	5 6	9000	5000
23.932 28.927 28.927 11.0 16 0.420		0.003	0.002	0.020	0.290	3.550	0.000	0.003	0.003
28.927 81.786 16 0.420		0.002	0.000	0.007	0.090	0.484	0.000	00.00	0000
9) 81.786 16 0.420	55 0.293	0.001	0000	0.005	0.044	0.690	0.002	0.000	0.078
16 16 0.420		P000	0 003	0.047	0.470	0.000	2000	0.045	0.246
16 0.420	I	10000	100:0	21000	0.1.0	540.	0.008	0.145	0.569
	21 21	-	21	0	21	21	21	24	24
		0.002	0.000	0000	0.030	0.005	0.001	0.005	0.005
		0.002	0000	0.000	0.120	1.480	0.003	0.088	0.130
	95 0.163	0.002	0000		0.070	0.208	0.001	0.039	0.052
22.698			0.000		0.023	0.328	0.001	0.026	0.035
Mean + (2 x SD); for pH; Mean - (2 x SD) 61.388 6.099	99 0 532		0000		0.116	0.864	0.002	0.091	0.122
Narrative Standard - SW4	24 0.74	MA	0.001	MA	0.473	4 776	2000	0 20	
		44	1000	N.V.	0.172	1.7.26	0.005	0.79	

Notes: mg/l = milligrams/liter; su = standard units n = number of samples

TABLE A-1 - STATISTICAL SUMMARY OF WATER QUALITY DATA 1989-2004 New World Mining District Response and Restoration Project

6.75 0.047 0.0147 0.0172 0.117 0.0082 1 6.7 0.034 0.0304 0.0304 0.0303 0.033 7.2 0.1 0.0056 0.00100 0.0320 0.033 7.2 0.1 0.0056 0.00100 0.0220 0.015 0.033 6.5 0.1 0.0056 0.00100 0.0220 0.015 0.03 6.7 0.1 0.0050 0.00100 0.0220 0.01 0.03 6.7 0.1 0.0050 0.00100 0.0220 0.01 0.03 7.1 0.2 0.0050 0.00100 0.0200 0.03 0.14 7.2 0.1 0.0050 0.00100 0.0200 0.03 0.14 7.2 0.1 0.0050 0.00100 0.0200 0.03 0.14 7.3 0.1 0.0050 0.00010 0.0200 0.03 0.14 7.3 0.1 0.0050 0.00010 0.0200	rd (for Hardness = 50 mg/l)		,	(mg/l) Flag	(mg/l) Flag	(mg/l) Flag	(mg/l) Flag	(mg/l) Flag	Total Rec. (mg/l)	Flag	Total Rec. Pb (mg/l) Flag	Total Rec. Mn (mo/l) Flac	Total Rec. Zn
4 6.75 0.034 0.00206 0.00406 </th <th>//or Wordpace = 50 mo//</th> <th></th> <th></th> <th>0.087</th> <th>0.15</th> <th>0.00142</th> <th></th> <th>0.0052</th> <th>Г</th> <th>╄</th> <th>Т</th> <th>Y.</th> <th>Т</th>	//or Wordpace = 50 mo//			0.087	0.15	0.00142		0.0052	Г	╄	Т	Y.	Т
Approximation balls 4 6.7 0.00000 0.00000 0.00000 0.001 Approximation balls 4.5.2 7.2 0.1 0.00000 0.00000 0.0000 0.001 Approximation balls 132.1 7.2 0.1 0.00000 0.00000 0.0000 0.	ווקווו אך בפפוותופון וואיו		2 5	0.75	0.34	0.00206	0.984	0.0073	¥	0	0.014	NA NA	0.067
Aydrometics Data 1627 7.2 0.1 0.00500 0.0010 0.01 Aydrometics Data 102.1 7.2 0.1 0.0000 0.00200 0.0200 0.003 Aydrometics Data 112.2 6.5 0.1 0.0000 0.00200 0.003 Aydrometics Data 116.97 7.1 0.2 0.00010 0.0200 0.01 Aydrometics Data 116.97 7.1 0.2 0.00010 0.0200 0.01 Aydrometics Data 128.4 6.8 0.2 0.0050 0.00010 0.0200 0.01 Aydrometics Data 218.4 7.2 0.2 0.0050 0.00010 0.0200 0.01 Aydrometics Data 18.5 7.3 0.1 0.0050 0.00100 0.0200 0.00 Aydrometics Data 18.5 7.3 0.1 0.0050 0.00100 0.00 0.00 Aydrometics Data 18.5 7.4 0.2 0.0010 0.0000 0.00 Aydrometics D	2/89 Hydrometrics Data	4	6.7		0.0050 <	0.00100 <		0.01 <	0.03			0.02 <	0.01
yelcomerics Data (1925) yelcomerics Data (1926) yelcomerics Data (19	0/89 Hydrometrics Data	4.52	7.2	0.0	0.0050 <	0.00100 <		0.01 <	0.03	v	0.01 <	0.02 <	0.01
Applications Date (1974) 1346 7 0.1 0.0000 0.000 0.001 <td>5/90 Hydrometrics Data</td> <td>123.2</td> <td>6.5</td> <td>o o</td> <td>0.0000</td> <td>0.00200</td> <td>0.0200</td> <td>0.035</td> <td>0.23</td> <td></td> <td>0.002 <</td> <td>0.02</td> <td>0.02</td>	5/90 Hydrometrics Data	123.2	6.5	o o	0.0000	0.00200	0.0200	0.035	0.23		0.002 <	0.02	0.02
Aydrometrics Data 1157 6.7 0.1 0.0000 0.0200 0.01 Aydrometrics Data 16.5 7.1 0.2 0.00100 0.0200 0.03 Aydrometrics Data 273.3 7.1 0.2 0.00100 0.0200 0.03 Aydrometrics Data 216.6 7 0.2 0.00100 0.0200 0.03 Aydrometrics Data 216.6 7 0.2 0.00100 0.0200 0.03 Aydrometrics Data 216.4 7 0.2 0.0100 0.0200 0.03 Aydrometrics Data 216.4 0.2 0.0100 0.0200 0.03 0.03 Aydrometrics Data 3.5 7.3 0.1 0.0050 0.0010 0.020 0.03 Aydrometrics Data 3.6 7.3 0.1 0.0050 0.00010 0.000 0.00 Aydrometrics Data 3.1 7.3 0.1 0.0050 0.00010 0.000 Aydrometrics Data 3.1 0.1 0.0050	790 Hydrometrics Data	138.6						5	5		5	0.02 <	LU.U
Vigorometrics Data 167.97 7.1 0.2 0.00100 0.0200 0.033 Aydrometrics Data 273.3 7.1 0.2 0.0050 0.00100 0.0200 0.037 Aydrometrics Data 210.6 7 0.2 0.0050 0.00100 0.0200 0.033 Aydrometrics Data 18.5 7.3 0.1 0.00100 0.0200 0.033 Aydrometrics Data 18.9 7.3 0.1 0.00100 0.0200 0.033 Aydrometrics Data 18.9 7.3 0.1 0.0050 0.00100 0.0200 Aydrometrics Data 18.9 7.3 0.1 0.0050 0.00010 0.0200 Aydrometrics Data 18.9 7.3 0.1 0.0050 0.00010 0.007 Aydrometrics Data 18.9 7.3 0.1 0.0050 0.00010 0.007 Aydrometrics Data 3.5 7.4 0.2 0.00010 0.0000 0.007 Aydrometrics Data 3.5 7.4	3/90 Hydrometrics Data	116.97				0.08000	0.0200 <	0.01 <	90.0		0.01 <	0.02 <	0.01
Vigorometrics Data 273.3 7.7 0.00000 0.00000 0.00000 Vigorometrics Data 215.1 6.6 0.2 0.00010 0.00000 0.0000 Vigorometrics Data 215.4 7.3 0.1 0.00100 0.0200 0.033 Aydrometrics Data 85.4 7.4 0.2 0.00010 0.0200 0.03 Aydrometrics Data 85.4 7.4 0.2 0.00010 0.0200 0.03 Aydrometrics Data 85.4 7.4 0.2 0.0000 0.0000 0.00 Aydrometrics Data 85.4 7.4 0.2 0.0000 0.0000 0.00 Aydrometrics Data 8.6 0.1 0.0000 0.0000 0.000 0.00 Aydrometrics Data 8.1 7.7 0.1 0.0000 0.0000 0.00 Aydrometrics Data 8.1 7.7 0.1 0.0000 0.0000 0.00 Aydrometrics Data 8.1 7.4 0.1 0.0000 0.0000	Wyo Hydrometrics Data	38 167 97	7 1			00000	0000	ć	0				
Vydrometrics Data 2515 6.6 0.2 0.0050 0.0000 0.0200 0.037 Vydrometrics Data 156.4 7 0.2 0.00100 0.0200 0.039 Vydrometrics Data 156.4 7 0.2 0.00100 0.0200 0.039 Vydrometrics Data 156.4 7.3 0.1 0.00100 0.0200 0.03 Vydrometrics Data 15.4 6.8 0.1 0.0050 0.0010 0.02 0.007 Vydrometrics Data 15.4 6.8 0.1 0.0050 0.00010 0.0200 0.007 Vydrometrics Data 15.5 1.1 6.8 0.1 0.0050 0.00010 0.0200 0.007 Vydrometrics Data 1.1 6.8 0.1 0.0050 0.00010 0.0000 0.007 Vydrometrics Data 1.1 0.1 0.0050 0.00010 0.00010 0.0000 Vydrometrics Data 1.1 1.1 0.0010 0.00010 0.00010 0.0011	790 Hydrometrics Data	273.3	-			0.00100	0.0200	0.03	0.26		0.01 <	0.02	0.15
Vegometrics Data (Vegometrics Data) 218.44 Volumetrics Data (Vegometrics Data) 218.44 Volumetrics Data (Vegometrics Data) 210.6 Volumetrics Data (Vegometrics Data) 210.6 Volumetrics Data (Vegometrics Data) 210.6 Volumetrics Data (Vegometrics Data) 210.7 Volumetrics Data (Vegometrics Data) (Vegometrics Data) (Vegometrics Data) (Vegometrics Data) (Vegometrics Data) (Vegometrics Data) (V	/90 Hydrometrics Data	251.5	9.9		0.0050 <	0.00010 <	0.0200 <	0.037	0.4		0.002 <	0.02	000
Aydrometrics Data 150.6 7 0.2 0.00100 0.0200 0.039 Aydrometrics Data 165.4 7.3 0.1 0.00100 0.0200 0.03 Aydrometrics Data 25.4 7.3 0.1 0.0050 0.0000 0.02 Aydrometrics Data 25.4 6.8 0.1 0.0050 0.00010 0.0200 0.03 Aydrometrics Data 10.1 6.6 0.1 0.0050 0.00010 0.0200 0.03 Aydrometrics Data 3.3 6.9 0.1 0.0050 0.00010 0.0200 0.01 Aydrometrics Data 3.3 6.9 0.1 0.0050 0.00010 0.0200 0.01 Aydrometrics Data 3.5 7.4 0.1 0.0050 0.00010 0.0200 0.01 Aydrometrics Data 3.5 7.4 0.1 0.0050 0.00010 0.01 0.01 Aydrometrics Data 3.5 7.4 0.1 0.0050 0.00010 0.0010 0.01	/90 Hydrometrics Data	218.48							;		7000	0.02	0.02
Option of the control of the	790 Hydrometrics Data	210.6	7	0.2		0.00100 <	0.0200 <	0.039	0.35		0.01 <	0.02	0.04
Ajdrometrics Data 72 6.8 7.7 6.8 Ajdrometrics Data 8.4 7.4 0.2 0.0050 0.00010 0.0200 0.03 Ajdrometrics Data 18.9 7.3 0.1 0.0050 0.00010 0.0200 0.03 Ajdrometrics Data 10.1 6.6 0.1 0.0050 0.00010 0.0200 0.01 Ajdrometrics Data 1.1 6.8 0.1 0.0050 0.00010 0.0200 0.01 Ajdrometrics Data 20.1 0.0050 0.00010 0.0200 0.01 Ajdrometrics Data 3.9 7.3 0.1 0.0050 0.00010 0.01 Ajdrometrics Data 3.5 7.4 0.1 0.0050 0.00010 0.01 Ajdrometrics Data 3.5 7.4 0.1 0.0050 0.00010 0.01 Ajdrometrics Data 3.5 7.4 0.1 0.0050 0.00010 0.01 Ajdrometrics Data 4.5 4.7 0.1 0.0010	/90 Hydrometrics Data	89.9	7.3			0.00100 c	× 0000 0	000	0			6	
Ajdrometrics Data 35.4 7.4 0.2 Ajdrometrics Data 28.4 6.8 0.1 0.0050 0.00010 0.0200 0.03 Ajdrometrics Data 18.3 6.9 0.1 0.0050 0.00010 0.0200 0.03 Ajdrometrics Data 3.3 6.9 0.1 0.0050 0.00100 0.0200 0.01 Ajdrometrics Data 3.1 7 0.1 0.0050 0.00010 0.0200 0.01 Ajdrometrics Data 3.1 7 0.1 0.0050 0.00010 0.0200 0.01 Ajdrometrics Data 3.5 7 0.1 0.0050 0.00010 0.0200 0.01 Ajdrometrics Data 3.5 7 0.1 0.0050 0.00010 0.01 0.01 Ajdrometrics Data 3.5 7 0.1 0.0050 0.00010 0.01 0.01 Ajdrometrics Data 4.2 7 0.1 0.0010 0.0010 0.01 0.01 Ajdrometrics D	/90 Hydrometrics Data	72	6.8			200	0.020.0	20.0	5		v 10:0	0.02 <	0.02
Ajdrometrics Data 28.4 6.8 0.1 0.0050 0.00010 0.0200 0.03 Ajdrometrics Data 10.1 6.6 0.1 0.0050 0.00010 0.0200 0.007 Ajdrometrics Data 3.3 6.9 0.1 0.0050 0.00010 0.0200 0.017 Ajdrometrics Data 3.1 7.1 0.1 0.0050 0.00010 0.0200 0.017 Ajdrometrics Data 3.1 7.3 0.1 0.0050 0.00010 0.0200 0.017 Ajdrometrics Data 3.5 7 0.1 0.0050 0.00010 0.011 Ajdrometrics Data 3.5 7 0.1 0.0050 0.00010 0.013 Ajdrometrics Data 3.5 7 0.1 0.0050 0.00010 0.011 Ajdrometrics Data 3.5 7 0.1 0.0050 0.00010 0.011 Ajdrometrics Data 4.5 7 0.1 0.0050 0.00010 0.010 Ajdrometrics Data	/90 Hydrometrics Data	35.4	7.4					0.07	0				0
Vydrometrics Data 18.9 7.3 0.1 0.0050 0.00010 0.0200 0.03 Vydrometrics Data 1.1 6.6 0.1 0.0050 0.00100 0.0200 0.007 Vydrometrics Data 20.1 0.1 0.0050 0.00100 0.0200 0.001 Vydrometrics Data 20.1 7 0.1 0.0050 0.00010 0.0200 0.017 Vydrometrics Data 3.5 7.3 0.1 0.0050 0.00010 0.0200 0.017 Vydrometrics Data 3.5 7.4 0.1 0.0050 0.00010 0.017 0.017 Vydrometrics Data 3.6 7.4 0.1 0.0050 0.00010 0.011 0.011 Vydrometrics Data 3.6 7.4 0.1 0.0050 0.00010 0.011 0.0010 Vydrometrics Data 3.5 7.4 0.1 0.0010 0.0010 0.011 0.011 Vydrometrics Data 3.5 7.4 0.1 0.0010 0.00010 </td <td>3/90 Hydrometrics Data</td> <td>26.4</td> <td>6.8</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>3</td> <td></td> <td></td> <td></td> <td>0.03 <</td>	3/90 Hydrometrics Data	26.4	6.8						3				0.03 <
Aydrometrics Data 10.1 6.6 0.1 0.0050 0.00010 0.0000 0.017 Aydrometrics Data 3.3 6.8 0.1 0.0050 0.0010 0.0200 0.017 Aydrometrics Data 51.2 7.1 0.2 0.0010 0.0200 0.017 Aydrometrics Data 51.2 7.1 0.1 0.0050 0.00010 0.0200 0.017 Aydrometrics Data 3.9 7.3 0.1 0.0050 0.00010 0.0200 0.011 Aydrometrics Data 38.11 7.4 0.1 0.0050 0.00010 0.011 Aydrometrics Data 38.11 7.4 0.1 0.0050 0.00010 0.011 Aydrometrics Data 48.1 7.4 0.1 0.0010 0.0010 0.011 Aydrometrics Data 48.1 7.4 0.1 0.0010 0.0010 0.016 Aydrometrics Data 48.5 4.6 0.1 0.0010 0.0010 0.016 Aydrometrics Data <	7/90 Hydrometrics Data	18.9	7.3		0.0050 <	0.00010 <	0.0200 <	0.03	0.1		0.002 <	0.02 <	0.03 <
Aydrometrics Data 3.3 6.9 0.1 0.0056 0.00010 0.007 Aydrometrics Data 3.3 6.9 0.1 0.0056 0.0010 0.0200 0.017 Aydrometrics Data 51.2 7.1 0.2 0.0010 0.0200 0.013 Aydrometrics Data 3.1 7.3 0.1 0.0056 0.00010 0.0200 0.013 Aydrometrics Data 3.5 7.4 1.6 0.0056 0.00010 0.010 0.011 Aydrometrics Data 3.6.7 7.4 1.6 0.0050 0.00010 0.011 0.015 0.016 0.016 0.016 0.016 0.017 0.011 0.011 0.016 0.001 0.016 0.016 0.016 0.016 0.016 0.011 0.011 0.001 0.011 0.016 0.011 0.016 0.016 0.011 0.016 0.001 0.011 0.016 0.011 0.011 0.011 0.011 0.011 0.011 <	3/90 Hydrometrics Data	10.1	9.9										
Aydrometrics Data 1 6.8 0.1 0.0056 0.00100 0.0220 0.01 Aydrometrics Data 21.7 7 0.2 0.0056 0.00010 0.0220 0.011 Aydrometrics Data 3.9 7.3 0.1 0.0056 0.00010 0.0220 0.011 Aydrometrics Data 3.5 7.4 0.1 0.0056 0.00010 0.011 Aydrometrics Data 3.54 7.4 0.1 0.0050 0.00010 0.016 Aydrometrics Data 3.54 7.4 0.1 0.0050 0.00010 0.016 Aydrometrics Data 3.54 7.4 0.1 0.00010 0.0010 0.016 Aydrometrics Data 4.2 7.4 0.1 0.0010 0.0010 0.016 Aydrometrics Data 4.5 £2 4.6 0.1 0.0010 0.0010 0.016 Aydrometrics Data 4.5 £2 4.6 0.1 0.0010 0.0010 0.016 Aydrometrics Data	5/90 Hydrometrics Data	3.3	6.9		0.0050 <	0.00010 <	0.0200 <	0.007	0.03	v	0.002 <	0.02 <	0.04
Vydrometrics Data 5.01.7 7.1 0.12 0.0010 0.0200 0.017 Vydrometrics Data 5.12 7.1 0.12 0.0001 0.0200 0.017 Vydrometrics Data 2.5 7.3 0.1 0.0050 0.00010 0.0200 0.011 Vydrometrics Data 3.54 7.4 0.1 0.0050 0.00010 0.010 0.011 Vydrometrics Data 3.54 7.4 0.1 0.0050 0.00010 0.010 0.011 Vydrometrics Data 4.2 7.4 0.1 0.00010 0.00010 0.010 0.011 Vydrometrics Data 4.5 2.4 0.1 0.00010 0.00010 0.0010 0.0010 Vydrometrics Data 4.5 2.4 0.1 0.00010 0.00010 0.0010 Vydrometrics Data 4.5 2.4 0.1 0.00010 0.00010 0.0010 Vydrometrics Data 4.5 2.4 0.1 0.00010 0.0010 0.0010 Vy	5/91 Hydrometrics Data	- 1	œ 1	0.1	0.0050 <	0.00100 <	0.0200 <	0.01 <	90.0		> 10.0	0.02 <	0.02
Aydrometrics Data 31.2 7.1 0.1 0.0050 0.00010 0.0000 0.0133 Aydrometrics Data 3.9 7.1 0.1 0.0050 0.00010 0.0000 0.0113 Aydrometrics Data 3.54 7.4 1.6 0.0050 0.00010 0.0110 0.011 Aydrometrics Data 3.54 7.4 0.1 0.00010 0.0100 0.011 Aydrometrics Data 4.2 7.4 0.1 0.00010 0.0010 0.016 Aydrometrics Data 4.5 E. 7.4 0.1 0.0010 0.0010 0.016 Aydrometrics Data 4.5 E. 7.4 0.1 0.0010 0.0010 0.016 Aydrometrics Data 4.5 E. 7.5 0.1 0.00010 0.0010 0.016 Aydrometrics Data 4.5 E. 4.6 0.1 0.00010 0.0010 0.016 Aydrometrics Data 4.5 E. 4.6 0.1 0.00010 0.0010 0.016 Aydrometrics Data 4.5 E	3/91 Hydrometrics Data	201.7	7 4		0.0010 <	0.00010 <	0.0200 <	0.017 <	0.18		0.002 <	0.02 <	0.01 <
Aydrometrics Data 2.5 7 0.1 0.0056 0.00010 0.013 Aydrometrics Data 3.67 7.4 1.6 0.0056 0.00010 0.0100 0.013 Aydrometrics Data 3.54 7.4 0.1 0.0056 0.00010 0.0100 0.0116 Aydrometrics Data 4.2 7.4 0.1 0.0010 0.0010 0.010 0.010 Aydrometrics Data 4.2 7.4 0.1 0.0010 0.00010 0.0010 0.001 Aydrometrics Data 4.5 0.1 0.0010 0.00010 0.0010 0.001 Aydrometrics Data 4.5 0.1 0.0010 0.00010 0.001 0.001 Aydrometrics Data 4.82 5.9 0.1 0.0010 0.0010 0.001 Aydrometrics Data 4.82 5.9 0.1 0.0010 0.0010 0.001 Aydrometrics Data 4.82 5.9 0.1 0.0010 0.0010 0.001 Asxim 3.25	Well Hydrometrics Data	2.5	7.3		0.0000	0.00010	0.0200 0	0.033	0.14		0 0	0.02 <	0.03
Addrometrics Data 30.67 7.4 1.6 0.0050 0.00010 0.0100 0.0110 0.0011 0.0110 0.0011 0.0110	791 Hydrometrics Data	2.5			0.0050 <	0.00010 <	0.0200	0.013 <	0.06		0.002 <	0.02 <	0.02
Hydrometrics Data 3.54 7.4 0.1 0.0050 0.00010 0.0100 0.016 Hydrometrics Data 4.2 7.1 0.2 0.00010 0.00010 0.0010 0.016 Hydrometrics Data 4.2 7.4 0.1 0.0010 0.00010 0.0010 0.016 Hydrometrics Data 45.62 4.6 0.1 0.0010 0.00010 0.0010 0.0011 Hydrometrics Data 45.62 4.6 0.1 0.0010 0.0010 0.0010 Hydrometrics Data 45.62 4.6 0.1 0.0010 0.0010 0.011 Hydrometrics Data 45.62 4.6 0.1 0.0010 0.0010 0.011 Aydrometrics Data 148.29 7.3 0.1 0.00010 0.0010 0.011 Aydrometrics Data 148.29 7.3 0.1 0.00010 0.0010 0.011 Aydrometrics Data 148.29 7.5 0.1 0.00010 0.0011 0.0011 Abaxim	1/92 Hydrometrics Data	30.67	7.4		0.0050 <	0.00010 <	0.0100 <	0.11	0.03	,	0.002 <	0.02 <	0.01
Hydrometrics Data 38.11 7.1 0.2 0.0010 0.0010 0.0010 Hydrometrics Data 4.2 7.4 0.1 0.0010 0.0010 0.0119 Hydrometrics Data 4.2 7.4 0.1 0.0010 0.0010 0.0119 Hydrometrics Data 45.62 4.6 0.1 0.0010 0.00010 0.016 Hydrometrics Data 45.62 4.6 0.1 0.0010 0.00010 0.016 Hydrometrics Data 45.62 4.6 0.1 0.0010 0.00010 0.016 Hydrometrics Data 1.8 7.3 0.1 0.00010 0.0010 0.016 Hydrometrics Data 1.36 7.3 0.1 0.00010 0.0010 0.016 Hydrometrics Data 1.36 7.3 0.1 0.00010 0.0010 0.011 Maxim 1.36 7.3 0.1 0.00010 0.00010 0.001 Maxim 2.65 6.9 0.05 0.00 0.00010 <t< td=""><td>3/92 Hydrometrics Data</td><td>3.54</td><td>7.4</td><td></td><td>0.0050 <</td><td>0.00010</td><td>0.0100 <</td><td>0.016</td><td>0.2</td><td></td><td>0.002 <</td><td>0.00</td><td>0.13</td></t<>	3/92 Hydrometrics Data	3.54	7.4		0.0050 <	0.00010	0.0100 <	0.016	0.2		0.002 <	0.00	0.13
Hydrometrics Data 4.2 7.4 0.1 0.0010 0.0010 0.019 Hydrometrics Data 19.2 8.1 0.0010 0.00010 0.0010 0.0010 Hydrometrics Data 45.62 4.6 0.1 0.0010 0.00010 0.0010 Hydrometrics Data 149.2 5.9 0.1 0.00010 0.0010 0.016 Hydrometrics Data 149.2 5.9 0.1 0.00010 0.0011 0.016 Hydrometrics Data 1.36.2 6.1 0.1 0.00010 0.0011 0.011 Hydrometrics Data 1.36.2 6.1 0.1 0.00010 0.0011 0.011 Aydrometrics Data 1.20.2 0.1 0.00010 0.00010 0.0011 0.0011 Maxim 1.25.5 6.8 0.1 0.00010 0.00010 0.004 Maxim 2.67 7.6 0.1 0.00010 0.0001 0.004 Maxim 1.0 7.8 0.1 0.00010 0.0001	1/93 Hydrometrics Data	38.11	7.1		0.0010 <	0.00010	0.0010 <	0.062	0.24		0.002 <	0.03	0.03
Hydrometrics Data 19,2 8.1 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.016 July drometrics Data 45,62 7 0.1 0.0010 0.0010 0.0011 drometrics Data 0.024 0.011 0.0011 0.0011 drometrics Data 0.011 0.0011 drometrics Data 0.011 0.0011 drometrics Data 0.011 0.0011 drometrics Data 0.011 drometrics Data 0.0011 drometr	2/93 Hydrometrics Data	4.2	7.4		0.0010 <	0.00010	0.0010 <	0.019	0.03		0.002 <	0.03	0.018 <
Weaking and statements bated and statements bated at 45.62 45.62 45.60 0.1 0.00010 0.016 July displayments bated at 45.62 45.62 45.60 0.1 0.00010 0.021 0.016 July displayments bated at 45.62 45.60 0.1 0.00010 0.0011	4/94 Hydrometrics Data	19.2	8.1		0.0010 <	0.00010 <		0.001 <					
Applications Data 43-56.2 4,5 0.1 0.000010 0.024 Option of Incidentics Data 149-2 5,4 0.1 0.000010 0.024 Option of Incidentics Data 13-65 7.3 0.1 0.000010 0.01 Abaxim 13-65 7.3 0.1 0.000010 0.001 Abaxim 3.727 7 0.2 0.00010 0.003 Abaxim 2.55 6.9 0.05 0.00010 0.004 Abaxim 3.6.08 6.8 0.1 0.00010 0.004 Abaxim 60-42 7.6 0.1 0.00010 0.004 Abaxim 0.64 7.8 0.1 0.00010 0.004 Abaxim 0.64 7.8 0.1 0.00010 0.004 Abaxim 1.0 7.6 0.1 0.0001 0.004 Abaxim 1.20 7.6 0.1 0.0001 0.004 Abaxim 7.1 7.2 0.05 0.0001	5/94 Hydrometrics Data	87.64	7		0.0010 <	0.00010 <	0.0010 <	0.016 J	0.11		0.002 <	0.01	0.005 J
Maxim 2.91 6.1 0.1 0.00010 0.01 Maxim 13.65 7.3 0.1 0.00010 0.01 0.01 Maxim 3.56 6.9 0.05 0.00010 0.001 0.001 Maxim 2.55 6.9 0.05 0.00010 0.004 0.004 Maxim 36.08 6.8 0.1 0.00010 0.004 0.004 Maxim 2.67 7.6 0.1 0.00010 0.004 0.004 Maxim 0.1 0.00010 0.0001 0.004 0.004 Maxim 0.1 0.0030 0.00010 0.004 0.004 Maxim 0.1 0.0030 0.00010 0.004 0.004 Maxim 0.1 0.0 0.0001 0.004 0.004 Maxim 0.1 0.0 0.0 0.004 0.004 Maxim 1.2 0.0 0.0 0.000 0.004 0.004 Maxim 1.2 <td>1/96 Hydrometrics Data</td> <td>140.02</td> <td>4, rt 10, 0</td> <td></td> <td></td> <td>0.00010 <</td> <td></td> <td>0.021</td> <td>0.15</td> <td></td> <td>0.003 <</td> <td>0.012</td> <td>0.04 <</td>	1/96 Hydrometrics Data	140.02	4, rt 10, 0			0.00010 <		0.021	0.15		0.003 <	0.012	0.04 <
Maxim 13.65 7.3 0.1 0.00010 0.01 Maxim 3.727 7 0.1 0.00010 0.016 Maxim 2.55 6.9 0.05 0.00010 0.004 Maxim 2.67 7.1 0.1 0.00010 0.003 Maxim 2.67 7.6 0.1 0.00010 0.003 Maxim 6.042 7.6 0.1 0.00010 0.004 Maxim 1.17 7 0.1 0.00010 0.004 Maxim 0.64 7.8 0.1 0.00010 0.004 Maxim 1.10 7.6 0.00010 0.004 0.004 Maxim 1.20.5 7.6 0.1 0.0001 0.004 Maxim 1.20.5 7.6 0.1 0.0001 0.004 Maxim 1.20.5 7.6 0.1 0.0001 0.001 Maxim 1.21 7.2 0.05 0.0001 0.001 Maxim	1/96 Hydrometrics Data	2.97	. c			0.00010		0.024	0.0		0.003 ×	0.013	0.01 <
Maxim 148.39 7.6 0.2 0.00010 0.034 Maxim 3.727 7 0.1 0.00010 0.016 Maxim 2.55 6.8 0.05 0.00010 0.004 Maxim 36.8 6.8 0.01 0.00010 0.003 Maxim 2.87 7.1 0.1 0.00010 0.005 Maxim 60.42 7.6 0.1 0.00010 0.005 Maxim 1.17 7 0.1 0.00010 0.004 Maxim 0.64 7.8 0.1 0.00010 0.004 Maxim 3.36 7.4 0.014 0.0001 0.004 Maxim 4.13 7.2 0.05 0.0001 0.004 Maxim 1.20.5 7.6 0.12 0.0001 0.001 Maxim 1.20.5 7.6 0.02 0.0001 0.001 Maxim 1.21 7.2 0.05 0.0001 0.001 <	6/99 Maxim	13.65	7.3			0.00010 <		0.01	0.02		0.003 <	0.00	0.00
daxim 3.727 7 0.1 0.00010 0.016 Maxim 2.55 6.9 0.05 0.00010 0.004 Adaxim 36.08 6.8 0.1 J 0.00010 0.003 Adaxim 2.67 7.6 0.1 0.00010 0.005 Adaxim 60.42 7.6 0.1 0.00010 0.004 Adaxim 1.17 7 0.1 0.00010 0.004 Adaxim 0.64 7.8 0.1 0.0001 0.004 Adaxim 3.36 7.4 0.1 0.0001 0.004 Adaxim 4.13 7.2 0.05 0.0001 0.001 Adaxim 1.20.5 7.6 0.12 0.0001 0.001 Adaxim 7.19 7.2 0.05 0.0001 0.001 Adaxim 7.19 7.2 0.05 0.0001 0.001 Adaxim 7.10 0.05 0.0001 0.001 0.002 <t< td=""><td>7/99 Maxim</td><td>148.39</td><td>7.6</td><td></td><td></td><td>0.00010 <</td><td></td><td>0.034</td><td>0.27</td><td></td><td>0.001 <</td><td>0.00</td><td>0.00</td></t<>	7/99 Maxim	148.39	7.6			0.00010 <		0.034	0.27		0.001 <	0.00	0.00
daxim 2.55 6.9 0.05 0.00010 0.0004 Maxim 36.08 6.8 0.1 J 0.00010 0.032 J Maxim 2.67 7.6 0.1 0.00010 0.005 Maxim 60.42 7.6 0.1 0.00010 0.004 Maxim 0.17 0.1 0.00010 0.004 Maxim 0.17 0.1 0.0001 0.004 Maxim 0.18 0.1 0.0001 0.004 Maxim 4.13 7.2 0.1 0.0001 0.004 Maxim 1.20.5 7.6 0.1 0.0001 0.001 0.001 Maxim 1.21 7.2 0.05 0.0001 0.001 0.001 Maxim 7.19 7.5 0.05 0.0001 0.001 0.003 Maxim 7.19 7.5 0.05 0.0001 0.001 0.003 Maxim 7.10 0.06 0.0001 0.001 0.003<	9/99 Maxim	3.727	7			0.00010 <		0.016	90.0		0.001 <	0.007	0.02
Maxim 35.08 6.8 0.1 J 0.00010 0.032 J Maxim 2.67 7.6 0.1 0.00010 0.005 Maxim 60.42 7.6 0.1 0.00010 0.004 Maxim 1.17 7 0.1 0.00010 0.004 Maxim 1.64 7.8 0.1 0.0001 0.004 Maxim 3.36 7.4 0.1 0.0001 0.004 Maxim 4.13 7.2 0.05 0.0001 0.004 Maxim 1.20.5 7.6 0.12 0.0001 0.001 Maxim 7.19 7.5 0.05 0.0001 0.003 Maxim 7.19 7.5 0.05 0.0001 0.001 Maxim 7.19 7.5 0.05 0.0001 0.003 Maxim 7.7 0.05 0.0001 0.001 0.003	3/00 Maxim	2.55	6.0			0.00010 <		0.004	0.05 <		> 100.0	0.005 <	0.02 <
Maxim 2.34 7.1 0.1 0.00010 0.005 Maxim 2.67 7.6 0.1 0.00010 0.004 Maxim 60.42 7.6 0.1 0.00010 0.004 Maxim 0.64 7.8 0.1 0.0001 0.004 Maxim 1.0 7.6 0.1 0.0001 0.004 Maxim 1.0 7.6 0.1 0.0001 0.004 Maxim 1.20.5 7.6 0.1 0.0001 0.005 Maxim 1.20.5 7.6 0.12 0.0001 0.005 Maxim 1.20.5 7.6 0.12 0.0001 0.003 Maxim 7.19 7.2 0.05 0.0001 0.001 Maxim 7.7 0.06 0.0001 0.001 0.003	8/00 Maxim	36.08	9 1			0.00010 <		0.032 J	0.14 J	_	0.001 <	0.018 J	0.01
Adaxim 2.07 7.0 0.1 0.00010 0.004 Maxim 60.4 7.6 0.1 0.0030 0.00010 0.0027 Maxim 1.17 7 0.1 0.0030 0.0001 0.004 Maxim 1.0 7.6 0.1 0.0001 0.004 0.004 Maxim 3.36 7.4 0.1 0.0001 0.001 0.004 Maxim 4.13 7.2 0.05 0.0001 0.0001 0.001 Maxim 1.21 7.2 0.05 0.0001 0.0001 0.001 Maxim 7.19 7.5 0.05 0.0001 0.0001 0.001 Maxim 7.7 0.06 0.0001 0.001 0.001 Maxim 10.721 7.7 0.06 0.0001 0.001	JOO Maxim	3.34	7.1			0.00010 <		0.005	0.05 <	٧,	> 100.0	0.003 <	> 10.0
Maxim 1.17 7 0.14 0.0030 0.00010 0.0004 Maxim 1.17 7 0.14 0.0030 0.00010 0.0004 Maxim 1.18 7.2 0.05 0.0001 0.0001 Maxim 1.20.5 7.6 0.12 0.0001 0.0001 Maxim 1.21 7.2 0.05 0.0001 0.0001 Maxim 1.21 7.2 0.05 0.0001 0.0001 Maxim 1.21 7.2 0.05 0.0001 0.0001 Maxim 1.21 7.2 0.06 0.0001 0.0001 Maxim 1.21 7.2 0.06 0.0001 0.0001	1/01 Maxim 8/01 Maxim	2.67	7.6			0.00010 <		0.004	0.02		0.001 <	0.003 <	> 10.0
Maxim 0.64 7.8 0.14 0.0001 0.0001 Adaxim 110 7.6 0.13 0.0002 0.003 Adaxim 4.13 7.2 0.05 0.0001 0.001 Adaxim 1.20.5 7.6 0.12 0.0001 0.003 Adaxim 7.19 7.5 0.05 0.0001 0.003 Adaxim 7.19 7.7 0.05 0.0001 0.001 Adaxim 107.21 7.7 0.06 0.0001 0.001	1/01 Maxim	1 17			0.0030 <	0.00010		0.027	21.0 21.0		0.001 <	0.008	0.01 <
Maxim 110 7.6 0.1 J 0.0002 0.032 Maxim 3.36 7.4 0.1 0.0001 0.014 4.13 7.2 0.05 0.0001 0.005 Adaxim 1.21 7.2 0.05 0.0001 Maxim 7.19 7.5 0.05 0.0001 0.014 Maxim 107.21 7.7 0.06 0.0001 0.014	3/02 Maxim	0.64	7.8		00000	> 00000		0.00	- 90		v 100.0	0.008	0.03
Maxim 3.36 7.4 0.1 0.0001 0.014 Maxim 4.13 7.2 0.05 0.0001 0.005 Maxim 1.20.5 7.6 0.12 0.0001 0.021 Maxim 7.19 7.2 0.05 0.0001 0.014 Maxim 107.21 7.7 0.06 0.0001 0.014	1/02 Maxim	110	7.6			0.0002		0.032	0.00			0.003	0.00
Maxim 4.13 7.2 0.05 0.0001 0.005 Abaxim 120.5 7.6 0.12 0.0001 0.021 Maxim 1.21 7.5 0.05 0.0001 0.003 Abaxim 7.19 7.5 0.05 0.0001 0.014 Abaxim 107.21 7.7 0.06 0.0001 0.002	3/02 Maxim	3.36	7.4			0.0001		0.014	0.01		0.001 ×	0.006	0.00
Adaxim 120.5 7.6 0.12 0.0001 0.021 Maxim 1.21 7.2 0.05 0.0001 0.003 Adaxim 7.19 7.5 0.05 0.0001 0.014 Adaxim 107.21 7.7 0.06 0.0001 0.025	r-03 Maxim	4.13	7.2			0.0001 <		0.005	0.12		0.001 <	0.007	0.01
4.21 7.2 0.05 0.0001 0.003 Maxim 7.149 7.5 0.05 0.0014 0.014 Maxim 107.21 7.7 0.06 0.0001 0.025	I-03 Maxim	120.5	7.6			> 10000.0		0.021	0.12		0.001	0.014	
Maxim 107.21 7.7 0.06 0.0001 0.0001 0.0014	5-03 Maxim	1.21	7.2			0.0001 <		0.003	> 10.0		0.001 <	0.02	0.03
0.025 U.0001 < 0.025	r-04 Maxim	7.119	7.5			0.0001 <		0.014	0.04		0.001 <	0.005 <	0.05 JF%
2 1000 C	-04 Maxim	107.27	7.7			0.0001 <		0.025	0.18		0.001 <	0.008	0.03

Notes: mgA = milligramsAliter, su = standard units n = number of samples

Maxim Technologies

< = less than detection J = estimated value

TABLE A-1 - STATISTICAL SUMMARY OF WATER QUALITY DATA 1989-2004 New World Mining District Response and Restoration Project

10		ī		1000	-			100	Principle.	Copper	Jec Jec	\vdash				Manganese		Zinc	
Station Date	Data Courses	Alow (agu)	(sir)	(mon)	A 100	(mg/l) Elac	lotal Rec.	3 1	oi .			ř	_	ပ	<u>و</u> ا	ď		ö	5
O CONTROL	Data Source	(619)	(96)	ı	4		4	T		4	M) Fiag	(mg/l)	Flag	(mg/l)	Flag	(mg/l)	Flag	(mg/l) F	Flag
Chronic Standard (for Hardness = 50 mg/l	Hardness = 50 mg/l)			0.087		0.15	0.00142		0.117	0.0052	52	The second		9000.0		¥	100	0.067	
Acute Standard (for Hardness = 50 mg/l)	fardness = 50 mg/l)	The Part of the	Change Still	0.75		0.34	0.00208		0.984	0.0073	73	¥		0.014		¥		0.067	
Station SW-6: Pre-1999 Samples (n)	Samples (n)	34	29	24		17		25	19	R	26	25	55	23		24		25	
Minimum		1.000	4,600	0.050		0.0005	0.00005	05	0.0005	J	1,000	0.010	0	0.000		0.007		0000	
Maximum		273.300	8.100	1,600		0.0025	0.08000	00	0.0100	_	0.110	2.880	0	0.010		0.050		0.150	
Mean		81.177	6.907	0.169		0.0019	0.003	46	0.0080	_	2,025	0.244	4	0.002		0.016		0.027	
Standard Deviation (SD)		81.893	0.616	0.312		6000.0	0.01595	95	0.0037	,	0.024	0.560	0	0.002		0.010		0.036	
Mean + (2 x SD); for pH: Mean - (2 x SD)	Mean - (2 x SD)	244.963	5.674	0.792		0.0038	0.03537	37	0.0153	_	0.074	1.365	5	0.007		0.035		0.099	
Station SW-6: 1989-2004 Samples (n)	4 Samples (n)	52	47	42	The Party of the P	18	The second second	43	19	Section 1	44	67	C.	41		42		42	
Minimum		0.640	4.600	0.025		0.001	0000	8	0.001		1000	0.005	40	0000		0000		2000	15
Maximum		273,300	8.100	1.800		0.003	0.080	80	0.010		0.110	2.880	0	0.010		0.050		0.00	
Mean		65,597	7.077	0.125		0.002	9.0	02	0.008	9	7.021	0.179	0	0.002		0.012		0.00	
Standard Deviation (SD)		75.098	0.558	0.241		0.001	0.012	12	0.004	,	0.021	0.433	62	0.002		0.00		0.020	
Mean + (2 x SD); for pH: Mean - (2 x SD)	Mean - (2 x SD)	215.792	5.960	0.607		0.0037	0.0264	64	0.0153		0.062	1.045	ın	0.006		0.030		0.082	
Station SW-6: 1999-2004 Samples (n)	14 Samples (n)	18	18	18		1	The state of the s	18	0		18	Section States	000	-81	The same of	_ c	NAME AND ADDRESS OF	9	
Minimum		0.640	6.800	0.025		0.002	0000	90	0.000		0.003	0.005	, ro	0.001		0.002		0.005	Ħ
Maximum		148.390	7.800	0.200		0.002	0000	90	0.000	7	0.034	0.270	0	0.001		0.020		0.050	
Mean		36.168	7.350	890 0		0.002	0000	8		7	2.015	0.088	60	0.001		0.008		0.017	
Standard Deviation (SD)		49.980	0.300	0.044			0000	8		•	0.011	0.071	-	0000		0.006		0.015	
Mean + (2 x SD); for pH; Mean - (2 x SD)	Mean - (2 x SD)	136.127	6.751	0.156			0.00013	13			0.037	0.230	0	0.001		0.018		0.047	
Narrative Standard - SW-6	N-6		5.7	0.763		NA	0.03472	72	NA		0.076	1.132	2	AN		0.034		0440	
																1000		2	1

Notes: mg/l = milligrams/filer, su = standard units n = number of samples

TABLE A-1 - STATISTICAL SUMMARY OF WATER QUALITY DATA 1989-2004 New World Mining District Response and Restoration Project

Flow Lub pH August Aug	Fig. Part
Comparison Com	Flow Lab pi
Comparison Com	Comparison Com
Colon Colo	Clay Lub pi Aluminum Aluminum Clay
Flow (cts)	Flow Lab pH Auminum, N
Flow Class	Flow Care
Flow Lab pH Total Rec. As Ansenic (cfs) (su) (mg/l) Flag (mg	Flow Lab pH Total Rec. As Ansenic (cfs) (su) (mg/l) Flag (mg
Flow (cfs) (au) Auminium (cfs) (cfs) (b) Holinium (cfs) (cfs	Flow (cfs) (au) Huminum (cfs)
Flow (cfs) (Flow (cfs) (
Hardness = 50 mg/l) Bardness = 50 mg/l) Bardness = 50 mg/l) Hydrometrics Data Hyd	Sample Date Date Source
	Sample Date Standard (for Jandard
< = less than detection J = estimated value

Revised: 3/7/05

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TABLE A-1 - STATISTICAL SUMMARY OF WATER QUALITY DATA 1989-2004
New World Mining District Response and Restoration Project

Data Source	Flow (cfs)	Lab pH (su)	Total Rec. Al (mg/l) Flag		Total Rec. As (mg/l) Flag	Total Rec.	8 🖺	Chromium Total Rec. (mg/l)	٥ E	Copper Total Rec. (mg/l)	Cu Flag	Total Rec. P	Fe	Lead Total Rec. Pb (mg/l) Fla		Manganese Total Rec. Mn (moll) Flag	Zinc Total Rec.	ic. Zn
The state of the s	The state of the s		0.087	0.		Ľ								Т	1			
Acute Standard (for Hardness = 50 mg/l)	0	0	0.75	0.	0.34	0.00208		0.984		0.0073		A.		0.014	-	¥	0.067	-
The second secon			15.9		0.001	0.0044	4			4.46	-	14.4		0.007	-	2.25		63
			15.3			0.0048	<u></u>			4.37		13,3		0.007		2.29		3 6
			19.2			0.0051	- -			4.35		21.4		0.008		2.81		87
0.1	ω ·		18.5	-	-	0.0046	9			5.03		19.4		0.013		2.8		180
	0.4		12.5			0.0043	2			3.63		8.69		0.005		2.5	-	0.76
1 1			- 10	-		0.0036	<u>ي</u>			2,15		5.94		0.005		1.67	!	0.5 JF%
1.1			78.7	I		0.000),			0.58		4.16		0.003		0.31		0.1
-	-	33 (200			0.0032	Z			2.79		11,1		0.004		1.44		.45
6.4		o	D C			0.0024	4			9.		7.36		0.002		1.25		0.35
23			18		ത	Ŧ	S	7		25		25	- Warner	12		10		20
2.900		3.27	0		0.001	0.00050	0	0.0040		0.876		5.320		0.002		0.304	-	120
2.000		28.60	0		0.005	0.00760	0	0.0100		8.260		41,800		0.024		3.650	, ,	1 200
3.822		12.33	0		0.002	0.00381	_	0.0061		3,391		13.722		0.007		1.740	c	0.489
0.536		8.19	4		0.002	0,00259	o,	0.0020		2.458		8.361		900.0		1.252	0	0.322
15.292 2.750 28.728	Ì	28.728		3	0.0047	0.00898	00	0.0100		8.307		30,445		0.019		4.244	1.	1.133
50 56 46		46			12	43	3	7		82		53		40		47		
0.012 2.900 2.97		2.97	0		0.001	0.001	-	0.004		0.580		4 180		0000		14000		70
7.700		28.600			0.005	0.008	60	0.010		8.260		41 800		0.00		2 8 50	5 .	0.010
		11.353			0.001	0.004	4	0.008		2.869		12331		0.054		3.050	- (200
0,717		6.281			0.001	0.002	2	0.002		1.850		8.600		0.000		0.085	òò	0.440
11.595 2.756 23.915		23.915		0	0,0042	0.0074	4	0.0100		6.569		25.531		0.015		3.641	0	0.877
33		28			3	28	89	0		37		28	Š	28		28	THE PERSON	37
3.400		2.970			0.001	0.001	-	00000		0.580		4,160		0.002		0.310	0	0.010
7.700		19.200			0.002	0.008	9	000:0		5.030		21.400		0.022		2.810	0	0.870
4.440		027.01			0.001	0.003	2			2.516		11.089		900.0		1.623	0	0.407
0.722		4.734			0.001	0.001				1.206		4.284		0.004		0.777	0	0.224
8.313 3.002 20.18		81.02	-		0.002	0.00636	9		N.	4.928	ŀ	19.656	8	0.014	Į.	3.176	0	0.855
2.7 28.		28.	4	The same	¥	0.003	6	MA	The Parties	8.064		29.649		0.018		4.088	-	1.104
																	-	

< = less than detection J = estimated value

TABLE A-1 - STATISTICAL SUMMARY OF WATER QUALITY DATA 1989-2004 New World Mining District Response and Restoration Project

Chronic Standard (for Hardness = 50 mg/l) Acute Standard (for Hardness = 50 mg/l)	Data Source (cfs)	Lab pH (su)	Total Rec. Al (mo/l) Flag	Total Rec. As	Total Rec. Cd	Total Rec. Cr	Total Rec. Cu	Total Rec. Fe	Total Rec.	Manganese Pb Total Rec. Mn	Zinc Total Rec.
Acute Standard (for Hardness = 50 m				0.15	0.00142	0 117	0.0052	(mg/n) riag	(mg/l)	(mg/l)	4
	West		0.75	0.34	00000	1000	20000		0.0005	¥	0.067
DC-5 10,03,00 Dudge chica Date	040		ı	1	0,00200	0.804	0.0073	¥.	0.014	NA	0.067
				0.0050	0.00300		2.54	6.88		1.16	0.4
			200	000000	0.001000	00000	0.97	6.4		0.28	0.12
	ata 0.540			0.0020	0.001000	0.0020	50.0	4.19	0.002	0.35	0.12
				0.000	0.00230	0.0020	2.17	4.68	0.002	1.2	0.36
DC-5 07/13/95 Hydrometrics Data		2 (4		0.0000	0.00270	0.0020	2.85 J	5.7 J	0.002	1.23	0.42
				0.000	0.00030	0.0020	0.485 J	3.8	0.003	0.18	0.062
				2000	0.00230	0.0020	2.43	2.38	0.003	1.18	0.391
					0.00040		0.340	3.12	0.003 <	0.143	90.0
DC-5 09/10/96 Hydrometrics Data	-		7.2		0.00040		0.40	2,48	0.003 <	0.166	0.07
					0.00200		20.00	24.4	0.003 <	1.08	0.37
	23.830		12		0.00000		0.33	0.65	0.001	0.25	0.08
	1.484				0.0000		4.00	0.0	1000	0.124	0.07
	0.429				0.00120		1.20	7.07	0.002	0.5	0.17 J
	8.900				0.00140		- 40.	1.38	0.004	0.041	0.02 <
					0.00000		0.04	2.11.5	0.001 <	0.19 J	U 20.0
	1 200		0		0.00040		0.7	2.86	0.001 <	0.26	0.1
	5.107				0.0000		0.0	1.3 J	0.003 <	0.23	0.08
DC-5 10/10/01 Maxim	0.340			0.0030 <	0.00100		17.0	3,02	0.002 J	0,21	0.09
DC-5 04/25/02 Maxim	0.001				0.0004		0.004		0.003	L4.0	0.15
DC-5 07/02/02 Maxim	12.600				0.0005		0.54	2 48	0.000	0.0	0.04
			5.9		0.0021		1.61	3.66	0.002	20.0	0.08 J
	0.001		0.3		0.0004		0.079	0.25	0.001 <	0.95	17.0
	0.740		3.7		0.001		0.76	2.07	0.003	0.00	0.02
DC-5 21-Apr-03 Maxim	0.570		2.07		60000		0.56	1.3	0.002	0.35	0.13
DC-5 T1-JUI-U3 Maxim	5.460		2.1		0.0006		0.48	1,55	0.001	0.29	0.07
	0 188	7.6	4.84		0.0017		2.01	15.7	0.018	1,05	0.38
	1 107		2.0		0.0012		1.44	m	0.003	0.62	0.3
İ	10 210		2.18		0.0007		0.52	1	0.001	0.34	0.13 JF%
	0.820		200		0.0002		91.0	1.23	0.001	0.1	0.04
DC-5 06-Oct-04 Maxim	1 800		1 03		0.000		0.87	3,69	0.001	0.46	0.15
			2	and the second second second	2000		LC.U	2.13	0.001 <	0.33	0.11
Statton UC-5: Pre-1999 Samples (n)	5	10	တ	7	10	သ	10	10	80	10	10
Minimum	0.240	5.200	1.400	0.0005	0,00040	0.0020	0.346	2.380	0.002	0.143	0 000
Maximum	30.740	7.200	8.100	0.0025	0.00300	0.0020	2.850	6.880	0.003	1.230	0.420
Standard Desiration (SD)	14.070	5.990	4.367	1100.0	0.00149	0.0020	1.598	4.195	0.002	0.697	0.237
Mean + (2 x SD): for pH: Mean - (2 x SD)	30 667	0.728	2.7.29	60000	0.00111	00000	1.017	1,387	0.001	0.504	0.161
Station DC E: 4000 2004 Camples (-)	6000	100.1	030.0	00000	0.00370	0.0020	3.632	6.969	0.003	1.704	0.560
Minimum	0.001	5 200	0.050	8 600	2000	S 000	32	32	90	32	32
Maximum	30.740	7.800	8.100	0.003	0.005	0.002	2.850	15 700	0.001	0.041	0.010
Mean	6.613	6.913	3.141	0.001	0.001	0.002	0.988	3.028	0.00	0.454	0.420
Standard Deviation (SD)	10.112	0.835	2.248	0.001	0.001	0.000	0.802	2.790	0.003	0.381	0.136
Mean + (2 x SD); for pH: Mean - (2 x SD)	26.837	5.243	7.634	0.0030	0.0032	0.0020	2.591	8.606	0.009	1.217	0.408
Station DC-5: 1999-2004 Samples (n)	19	21	22	1	22	0	22	22	22	22	22
Minimum	0.001	2.900	0.050	0.002	0000	0.000	0.024	0.005	0.001	0.041	0.010
Maximum	23.830	7 800	7.840	0.002	0.005	0.000	2.010	15.700	0.018	1.050	0.380
Standard Deviation (SD)	8.977	7.352	1.881	0.002	0.00		0.710	2.495	0.002	0.344	0.120
Mean + (2 x SD); for pH: Mean - (2 x SD)	18.314	6.507	6.362		0.00287		1.705	3.118 8.730	0.004	0.255	0.088
Temporary Standard - DC-5		4.6	9.51	AN	0.004	AN	1.51	6.03		0000	CRZO

Notes: mg/l = milligrams/liter; su = standard units n = number of samples

Maxim Technologies

< = less than detection J = estimated value

TABLE A-1 - STATISTICAL SUMMARY OF WATER QUALITY DATA 1989-2004 New World Mining District Response and Restoration Project

ង៍រ	ge	Τ	T	_							_				_	_	_	_	_					_	_	_	_							_			_				_	%	
ű	Ш	0.007	0.00	0.02	0	0.02	0.02	0	0.03	0.03	0.04	0.03 ×		0.04		0.02	0.01	9.0	0.06	0.01	0.03	0.04	0.014	0.010	0.02	0.027 <	0.02	0.02	20.0	, ,	0.03	0.05	0.02 <	0.02 J	0.00	0.02 J	0.01 <	0.02 J	0.06 J	0.0	0.0	0.02 JF%	0.01 <
c. Mn	(mg/l) Flag	5 5	> 2000	1				900	0.03	0.05	0.04			0.07		0.05	9.00	0.05	0.07	90.0	0.07	0.08	0.07	0.07	0.05	0.03	0.046	0.038	0.025	0.027	0.023	990.0	0.072	0.029 J	0.035	0.015	0.028	0.024	0.038	810.0	0.023	0.046	0.02
2 2	GBL .	İ	 <u>`</u>						<i>'</i> .		v					٧١	, -	, –	v	v	v	v	v v	v	v	v	v	v 1	/ v	v	v	v	v 1	<i>,</i> ,	, ¬		v	v	v 1	/ V		v	v
Total Rec.	0.0005	0.044	0.002					0000	0.00		0.01			0.003	6	0.002	0000	0.024 J	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.001	0.001	0.001	0.001	0.00	0.003	0.001	0.001	0.001	0.00	0.00	0.001	0.001	0.001
9. II	a a	I]_	6	2		g ₀	9	ı	œ	7	<u>ල</u>		2		1 4	4	2	2	_	20.0	v N a	0 0	2	۲ ا	7	ıc c	ກຕ	. ~	3	2	m .	- "		, ,	01	.	.					
Total Rec.	1	¥2	°	0.99	0.61	5	0.99	1.02	?	0.78	0.67	0.93		1.05		0.14	0.74	1.2	0.15	0.21	0.0	0.2	0.0	0.1	L 76.0	0.17	1.05	0.0	0.62	0.5	0.42	0.43	0.51	2 0	0.53	0.12	0.26	0.49	0.23	0.27	0.29	0.46	0.34
 	Т	-	0.03	1	0.07	;	0.14	47	:	0.11	0.11	0.17		0.21	000	0.02	> 90.0	0.18	34	17	7,	v 20	0.00	ر 2ر	0.098 J	<u>.</u> .	37	0 0	8	14	0.001 <	4 :	4 5	0.001 <	2	5	ღ (D C	b I_		ιΩ	ල I	٠ ،
Total Rec.	\perp	0.0073	Ö	0	0		0	0.147		0.	o.	0		0	č	öč	ö	Ö	0.034	0.017	0.17	20.00	00	0.00	0.0	0.021	0.087	0.038	0.008	0.064	0.0	0.004	0.004	000	0.12	0.005	0.003	0.089	0.00	0.067	0.005	0.003	0.037
2 E			0.0200					0.0200 <			0.0200			0.0200 <	> 0000	0.0200	0.0200	0.0200 <	8	> 00	0.0100 <	0.0010	0.0010 <	0.0010 <	30	10 <																	
Total Rec.	L	0.984	0.0					0.0		ò	0.0			0.02	0 0	0.02	0.02	0.02	0.0200	0.0200	0.00	000	0.00	0.00	0.0030	0.0010																	
Total Rec. Cd (mg/l) Flag		0.00206	0.00010 <					0.00020		0	0.001000			0.00020	0.00010 <	0.00100 <	0.00010 <	0.00010	0.00020	0.00010	0.00010 <	0.00020	0.00010	0.00010 <	0.00010	> 000000	0.00020	0.00010 <	0.00010 <	0.00010	0.00010 <	0.00010 0	0.00010 <	0.00010 <	0.00080	0.00010 <	0.0001 ×	0.000	0.0001	0.0001	0.0001 <	0.0001 <	0.0001
As			×					> (v	> (v (> (v .	v	v :	v v	v	v	v	v :	v										v							
Total Rec. (mg/l)	0.15	0.34	0.0050					> 0.0050						0.0050	0.0050 <	0.0050 <	0.0050 <	0.0050 <	0.0050 <	0.0000	0.0050 <	0.0010 <	0.0010 <	0.0010 <	0.0010 <	0.0010										0.0030 <							
. A EBG			-	4.	56		rύ	9.		4. c	į	5.		ņ	v	v	κi	4.	- '	/ - 4	n -	. 2	2	2.3	, O	/ - u	. m	· v	4	4	V 1	/ V	, n	٠ ۲	5	v :	v -	S -	. v	_	V ID I	v	ı m
Total Rec. (mg/l)	0.087	0.75	0.	0	0.2		o o	0	,	0 0	•	o	•	o o	O	o	Ö	0 0	0 0	o c	0.0	Ö	0	0.0	0 0	o c	ó	o	0	0	o 6	9 0	6	0.0	0	0 0		ò	0.05	0.31	0.05	0.05	0.08
Lab pH (su)			7.5	9./	7.4		7.9	7.5	1	7.3	7.2	7.1	, c	7.2	8.2	7	5.9	7.4	7.7	. 0	7.8	00	80	7.6	7 0 3	0.0	6.9	6.4	7.1	7.9	7.5	, r	7.3	7.7	7.9	7.5	4. 00	7.7	6.8	7.7	7.8	E. 7	7.7
Flow (cfs)			40.30	115.10	69.81	56.30	97.51	138.80	140.13	122.90	41.70	24.70	20.30	5.60	2.20	1.50	157.60	37.70	01.4	00.00	3.23	3.71	3.71	1.69	113.48	223.08	97.63	2.12	6.48	111.83	2.49	r S	32.25	1.81	36.63	1.53	74.60	2.42		39.60	1.42	88 54	7.83
Data Source	Chronic Standard (for Hardness = 50 mg/l)	Acute Standard (for Hardness = 50 mg/l)	05/28/90 Hydrometrics Data	06/06/90 Hydrometrics Data	06/13/90 Hydrometrics Data	06/15/90 Hydrometrics Data	06/22/90 Hydrometrics Data 06/22/90 Hydrometrics Data	06/27/90 Hydrometrics Data	06/28/90 Hydrometrics Data	07/103/90 Hydrometrics Data 07/10/90 Hydrometrics Data	07/12/90 Hydrometrics Data	07/17/90 Hydrometrics Data	07/26/90 Hydromotrics Data	08/22/90 Hydrometrics Data	09/25/90 Hydrometrics Data	Hydrometrics Data	Hydrometrics	Hydrometrics Data	06/13/91 hydrometrics Data	07/19/92 Hydrometrics Data	09/22/92 Hydrometrics Data	09/23/93 Hydrometrics Data	09/23/93 Hydrometrics Data	08/25/94 Hydrometrics Data	07/13/95 Hydrometrics Data	06/18/96 Hydrometrics Data	07/09/96 Hydrometrics Data	09/10/96 Hydrometrics Data	Maxim	Maxim	Maxim	Maxim	Maxim	Maxim	Maxim	Maxim	Maxim	Maxim	Maxim	Maxim	Maxim	Maxim	Maxim
Sample Date	tandard (for	andard (for t	05/28/90	06/90/90	06/13/90	06/15/90	06/22/90	06/27/90	06/28/90	07/10/90	07/12/90	07/17/90	02/26/90	08/22/90	09/25/90	03/15/91	06/06/91	07/10/91	09/24/91	07/19/92	09/22/92	09/23/93	09/23/93	08/25/94	09/27/95	06/18/96	96/60/20	09/10/96	05/06/99 Maxim	07/08/99 Maxim	09/29/99 Maxim	04/12/00 Maxim	07/09/00 Maxim	10/09/00 Maxim	06/29/01	10/10/01 Maxim	07/02/02 Maxim	10/09/02 Maxim	21-Apr-03 Maxim	11-Jul-03 Maxim	29-Sep-03 Maxim	29-Jun-04 Maxim	06-Oct-04 Maxim
Sample Station	Chronic S	Acute St	SW-7	SW-7	2W-7	SW-7	SW-7	SW-7	SW-7	SW-7	SW-7	SW-7	SW-7	SW-7	SW-7	SW-7	SW-7	2W-/	2M27	SW-7	SW-7	SW-7	SW-7	2W-7	2w-7	SW-7	SW-7	SW-7	SW-7	2VV-/	SW-7	SW-7	SW-7	SW-7	SW-7	2W-7	SW-7	SW-7	SW-7	SW-7	SW-7	SW-7	SW-7

Notes: mg/l = milligrams/liter, su = standard units n = number of samples

Maxim Technologies

< = less than detection J = estimated value

TABLE A-1 - STATISTICAL SUMMARY OF WATER QUALITY DATA 1989-2004
New World Mining District Response and Restoration Project

Sample	Sample Date	Data Source	Flow (cfs)	Lab pH (su)	Aluminum Total Rec. (mg/l)	Flag	Arsenic Total Rec. As (mg/l) Flag	Cadmium Total Rec.	25	Chromium Total Rec. Cr	Copper Total Rec.	3 5	ij		ı i	M L	Mn .	ij
Chronic Stan	Chronic Standard (for Hardness = 50 mg/l)	ess = 50 mg/l)		National Services				0.00142		Т	L	P C	(III)	GRIL.	(mg/l) r-lag		Fiag	(mg/l) Flag
Acute Stand	Acute Standard (for Hardness = 50 mo/	88 = 50 mo/l)			0.75	1000000	V6.0	800000	t					1	0.000.0	¥.		0.067
Station CIA 7.	Station SIM 7: Brn 1000 Samuel	1-1-1	000	100	2	1	500	0.00200		408.0	0.0073		NA		0.014	¥	100	0.067
Minimum	1100 CCC1-91-	III said	1.500	28	0.020		0.0005	0.00005		0.0005	25	10.10	25		2000	200	- 0	25
Mean			223.080	8.200	0.600		0.0025	0.00050		0.0200	0.21	0	1.200		0.024	0.080	00	0.004
Standard Deviation (SD)	tion (SD)		59.633	0.518	0.197		0.0010	0.00013		0.0074	0.08	~ -	0.547		0.003	0.049	0	0.024
Mean + (2 x SD	Mean + (2 x SD); for pH: Mean - (2 x SD)	-(2 × SD)	176.225	6.346	0.676		0.0038	0.00042		0.0179	0.204		1.329		0.013	0.019	o (0.013
Station SW-7:	Station SW-7: 1989-2004 Samples (n)	(u) sejai	46	46	43		17	38		17	A		42		- 00		Ī	
Minimum			0.405	5.900	0.005		0.001	0.000		0.001	0.00		0700		2000	39	on o	43
Maximum			223.080	8.200	0.800		0.003	0.001		0.020	0.210		1.200		0.024	0000	0 0	0.004
Standard Deviation (SD)	(US/ uoi)		48.489	7.435	0.223		0.002	0.000		0.007	0.060	•	0.470		0.002	0.041	-	0.000
Mean + (2 x SD	Mean + (2 x SD); for pH: Mean - (2 x SD)	-(2 x SD)	158.392	6.535	0.187		75000	0.000		0.005	0.058		0.322		0.004	0.020	0	0.015
Ctation CM 7.	Station 6.00 7: 1000 3004 6-1-1-1	- I (-)		2000	1000		10000	0.0004		8710.0	0.176		1.114		0.010	0.080	0	0.050
Minimum	1335-E004 Odili	TILL GALLI	40.0	81 000	81		1	18		0	16	_	18		18	18	8	18
Maximum			111 830	2 000	0.005		0.002	0000		0000	0.001		0.120		0.001	0.010	0	0.005
Mean			29.131	7 517	0.143		0.002	500		0.000	0.120		0.620		0.004	0.072	2	0.080
Standard Deviation (SD)	ion (SD)		37.316	0.313	0.141		7000	0000			0.02		0.364		0.001	0.031		0.017
Mean + (2 x SD,	Mean + (2 x SD); for pH: Mean - (2 x SD)	-(2 x SD)	103.764	6.891	0.424			0.000			0.037		0.141		0.001	0.017	2	0.016
			Ī			-		-			-		0.647		0.002	0.065	2	0.049
lemporary Standard - SW-7	ndard - SW-7	The same of the sa		5.5	0.67		A	¥		NA NA	0.2		130		0.042	0 000		
											1000				212.0			5500

Revised: 3/7/05

Notes: mg/l = miligrams/liter; su = standard units n = number of samples