# **STATE OF MONTANA**

# **2020 AIR MONITORING NETWORK ASSESSMENT**



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**Montana Department of Environmental Quality Air Resources Management Bureau** 

> 1520 East 6th Ave Helena, MT 59620

# 2020 Ambient Air Quality Monitoring Network Assessment

# **Executive Summary**

The Montana Department of Environmental Quality (Department) is charged with monitoring for air pollution in the State of Montana. To ensure the effective implementation and operation, of an adequate ambient air quality surveillance system (monitoring network), and in accordance with the requirements of 40 Code of Federal Regulation 58.10(d), the Department has developed this Ambient Air Monitoring Network Assessment (MNA). The intended MNA audience includes the U.S. Environmental Protection Agency (EPA), state, and local air quality planning agencies.

The MNA is conducted on an every-5-year basis to provide for a periodic assessment of the technical aspects of Montana's air quality monitoring network. At a minimum, the MNA documents whether the existing monitoring network meets the objectives of 40 CFR 58, Appendix D, evaluates whether new ambient air monitoring sites are needed; whether existing sites are no longer needed and can be terminated; and whether new technologies are appropriate for incorporation into the network. Further, the MNA addresses the monitoring network's ability to adequately characterize air quality in areas with relatively high populations of susceptible individuals (e.g. children with asthma) and provides an historical account of Montana's air pollution monitoring network activities. The MNA also considers the impact of monitoring network changes (i.e. discontinuance) on affected data users.

As detailed within this document 2020 NMA the Department has rendered the following outcomes:

- Continue to upgrade and enhance the PM<sub>2.5</sub> network and incorporate new technologies. This
  includes improvements to methods to acquire and convey real-time air quality data and the
  potential use of low-cost sensors.
- Continue to evaluate new PM<sub>2.5</sub> monitoring sites in population dense areas throughout Montana
- Continue to evaluate monitoring in eastern Montana related to the development of the oil and gas fields

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# **1.0 INTRODUCTION**

The foundations of air pollution control as we know it today were laid in 1970 with the passage of the Federal Clean Air Act (CAA). This legislation created the U. S. Environmental Protection Agency (EPA) and mandated the establishment of National Ambient Air Quality Standards (NAAQS) for those ubiquitous pollutants with significant, adverse effects on public health or welfare. These pollutants are commonly referred to as criteria air pollutants.

Air monitoring has always been an important aspect in the regulation of air quality, but it was not until the 1977 amendments to the CAA that there was a legal requirement for uniform national air monitoring criteria. In April, 1979, EPA promulgated rules to "provide air monitoring data of acceptable quality; comparable data from all monitoring stations; optimum, cost-effective monitoring networks; and timely data submission for national assessment purposes." The new rules were codified in Title 40, Part 58 of the Code of Federal Regulations (CFR) and include, in part, a requirement for States to annually review their ambient air monitoring networks. Ambient air is defined as that portion of the atmosphere, external to buildings, to which the general public has access (40 CFR 50.1).

# 1.1 NETWORK ASSESSMENT PROCESS

On October 17, 2006, EPA adopted a rule revising the national ambient air monitoring regulations. As part of that action, States were required to conduct an assessment of their ambient air monitoring networks on a 5-year basis. The rule is found at 40 CFR 58.10(d) and the requirement reads as follows:

The state, or where applicable local, agency shall perform and submit to the EPA Regional Administrator an assessment of the air quality surveillance system every 5 years to determine, at a minimum, if the network meets the monitoring objectives defined in appendix D to this part, whether new sites are needed, whether existing sites are no longer needed and can be terminated, and whether new technologies are appropriate for incorporation into the ambient air monitoring network. The network assessment must consider the ability of existing and proposed sites to support air quality characterization for areas with relatively high populations of susceptible individuals (e.g., children with asthma), and, for any sites that are being proposed for discontinuance, the effect on data users other than the agency itself, such as nearby states and tribes or health effects studies. The state, or where applicable local, agency must submit a copy of this 5-year assessment, along with a revised annual network plan, to the Regional Administrator. The assessments are due every five years beginning July 1, 2010.

As a result, the Montana Department of Environmental Quality (Department) is conducting this assessment of the State's ambient air monitoring network. According to appendix D of 40 CFR 58, an ambient air monitoring network must be designed to meet the following three basic objectives:

- Provide air quality data to general public in timely manner
- Support compliance with NAAQS and emissions strategy development
- Support air quality research studies.

In order to support these three basic objectives, ambient air monitoring networks are designed to accomplish a variety of tasks by using six general site types, as follows:

- Sites located to determine the highest concentrations expected to occur in the area covered by the network.
- Sites located to measure typical concentrations in areas of high population density.

- Sites located to determine the impact of significant sources or source categories on air quality.
- Sites located to determine general background concentration levels.
- Sites located to determine the extent of regional pollutant transport among populated areas; and in support of secondary standards.
- Sites located to measure air pollution impacts on visibility, vegetation damage, or other welfare-based impacts.

# 1.2 AIR QUALITY PARAMETERS OF INTEREST

EPA has established primary and secondary NAAQS for six pollutants. Primary standards are set to protect public health and are based on health-related criteria. Secondary standards are set to protect public welfare. NAAQS exist for the following pollutants: particulate matter (PM), carbon monoxide (CO), sulfur dioxide (SO<sub>2</sub>), nitrogen dioxide (NO<sub>2</sub>), ozone (O<sub>3</sub>), and lead (Pb). Other non-criteria air pollutants include those known to be toxic but for which no national standards have been set for acceptable concentrations in the ambient air. In addition to enforcing the NAAQS, Montana adopted its own suite of ambient air quality standards in 1980, referred to as the Montana Ambient Air Quality Standards (MAAQS). MAAQS were established for hydrogen sulfide (H<sub>2</sub>S), fluoride in forage, and settleable particulate matter, along with standards for PM, CO, NO<sub>2</sub>, SO<sub>2</sub>, and O<sub>3</sub>. All which are more stringent than the NAAQS in place at the time.

Since the concentration of pollutants in the ambient air is influenced by climitological conditions, the monitoring of various meteorological parameters (MET) is often essential to understanding ambient air monitoring results. The Department utilizes several instruments to measure various meteorological parameters (e.g., wind speed, wind direction, temperature, humidity, and barometric pressure). The results are used to support the analysis of air pollution data, including dispersion modeling.

# 1.2.1 PARTICULATE MATTER

Particulate matteris the sum of all solid and liquid particles suspended in ambient air. This complex mixture includes both organic and inorganic particles, such as dust, pollen, soot, smoke, and liquid droplets. These particles vary greatly in size, composition, and origin. Total Suspended Particles consist of particulate matter with an aerodynamic diameter less than approximately 50 micrometers ( $\mu$ m or microns).). Particles larger than 50 microns tend to settle out of the air quickly and are not easily inhaled into the lungs where they could cause health effects. Particles with aerodynamic diameter of 10 microns (PM<sub>10</sub>) and less are generally filtered out when breathing through the nose but are easily inhaled through the mouth and have potential health effects. Particles with diameters of 2.5 microns (PM<sub>2.5</sub>) and smaller are not filtered out efficiently by the human body's defense mechanisms in the upper respiratory system., PM<sub>2.5</sub> can be carried deep into the lungs where it potentially causes serious health effects.

Combustion processes commonly generate ultrafine particles with diameters smaller than 0.1 micron. These ultrafine particles can agglomerate and form larger particles in the 0.1 to 2.5-micron size range. These products of combustion make up the majority of the  $PM_{2.5}$  in the atmosphere. Naturally occurring particles like crustal material (e.g. road dust), pollen, and spores are mainly larger than 2.5 microns but smaller than 10 microns in diameter. These natural particles, along with  $PM_{2.5}$ , compose the  $PM_{10}$  fraction in the atmosphere. Particulate matter larger than 10 microns comes primarily from geological sources (dust). Generally speaking, the smaller the particle's size, the less it weighs and the slower it settles out of the air. In

still air,  $PM_{10}$  particles may require hours to settle.  $PM_{2.5}$  particles can take days or weeks to settle and are only effectively removed from the atmosphere maily through precipitation or other forms of atmospheric moisture. As a result,  $PM_{2.5}$  causes visibility impairment or "haze".

To date, particulate matter is Montana's most significant ambient air quality issue. As such, particulate matter pollution is among one of the highest priorities within the Department's Air Quality Bureau (AQB). Major sources of PM include;dust entrained from paved/unpaved roads, and construction/mines sites; residential wood stove combustion; prescribed burning; wildfire events; and industrial and agricultural activities.

# 1.2.2 SULFUR DIOXIDE

 $SO_2$  is a colorless gas with a pungent odor and it is a major worldwide pollution problem.  $SO_2$  is detectable by the human nose at concentrations of about 0.5 to 0.8 parts per million (ppm). It is highly soluble in water where it forms sulfurous acid (H<sub>2</sub>SO<sub>3</sub>). In the atmosphere, sulfurous acid is easily converted to sulfuric acid (H<sub>2</sub>SO<sub>4</sub>), the major acidic component of "acid rain."  $SO_2$  is emitted mainly from stationary sources burning coal or oil, or by industrial processing of raw materials that contain sulfur compounds such as petroleum refineries and metal ore smelters.  $SO_2$ and other sulfur oxides can react in the atmosphere to form fine particulates.

EPA's national ambient air quality standards for SO<sub>2</sub> are designed to protect against exposure to the entire group of sulfur oxides (SO<sub>x</sub>). Sulfur dioxide is still a pollutant of concern in two areas of Montana.

- Colstrip, Rosebud County (coal-fired electric generation)
- Billings/Laurel Area, Yellowstone County (petroleum refineries)

# 1.2.3 LEAD

Lead is a naturally occurring element found in small quantities in the earth's crust. In the past, large quantities of lead were emitted by automobiles burning gasoline which contained tetra-ethyl lead. Lead is also emitted by smelters (other than iron smelters) and via the processing of various metal ores. Montana's only major lead source was removed in April 2001, when the ASARCO primary lead smelter in East Helena was shutdown.

# 1.2.4 CARBON MONOXIDE

CO is a colorless, odorless gas that can be harmful in elevated concentrations. The main source of CO in ambient air is the incomplete combustion of fossil fuels which are primarily used for transportation and heating purposes. Of all the gaseous pollutants found in urban atmospheres, CO is usually the most common one. Automobile exhaust is the principal source of CO emissions (60-80%) in Montana's major urban areas.

# 1.2.5 NITROGEN DIOXIDE

Nitrogen Dioxide (NO<sub>2</sub>) is one of a group of highly reactive gases known as oxides of nitrogen or nitrogen oxides (NO<sub>x</sub>). The primary source oxides of nitrogen (NO<sub>x</sub>)

result from high temperature combustion.  $NO_x$  compounds are typically unstable and react to form nitric oxide (NO) and  $NO_2$ .  $NO_2$  is a potent irritant and combines with water vapor to form nitric acid. Historically, nitrogen dioxide has not been a pollutant of major concern in Montana with interest in nitrogen oxides largely limited to their role in ozone formation.

Major NO<sub>2</sub> point sources in Montana include; coal-fired power plants, natural gas compressor stations, oil refineries, and mobile sources.

# 1.2.6 OZONE

In the past,  $O_3$  has not been indentified as a pollutant of major concern in Montana. All areas of the State are designated attainment/unclassifiable for  $O_3$ . However,  $O_3$  formation has national implications and will likely garner greater attention as ambient concentrations of other criteria pollutants decline.

Ground-level zone is not emitted directly into the atmosphere but results from a complex photochemical reaction between volatile organic compounds (VOC) and  $NO_x$  compounds. Since solar radiation is a major factor in ozone formation, the concentrations generally peak during the summer months.

# 1.2.7 OTHER AIR POLLUTANTS

Air toxics cover a far-ranging group of hazardous substances, emitted in either gaseous or particulate phases. For years the air toxics of most concern in Montana were heavy metals (e.g. lead, arsenic, cadmium, chromium, etc.) associated with PM emissions from mining and minerals processing operations.

Sources of air toxics are diverse and numerous. Point sources include; the oil and gas industry, mineral extraction and processing, chemical and cement plants, and wood products industry. Examples of area sources include dry cleaners, gas stations, residential wood stove combustion, and motor vehicle repair/refinishing facilities. Mobile source tailpipe emissions also present a contribution of air toxics.

# 1.2.8 METEOROLOGY

Meteorological data collected by the Department may be used to provide context to measured hourly pollution data, or to support dispersion modeling studies. Data collected for context is often not archived unless a review of the hourly pollutant data reveals a need. Parameters measured may include; wind speed, wind direction, wind direction standard deviation, temperature, relative humidty, and barometric pressure.

# 1.3 SUMMARY OF MONTANA'S AIR MONITORING NETWORK

From the inception of Montana air quality program, the Department has developed and maintained an air pollution monitoring network.

In the 1960s the Department used high volume samplers (HiVols) to measure total suspended particulate matter (TSP), dustfall buckets, "Montana Boxes" (for fluoride), and sulfation plates to assess the effects on air quality from various air pollution sources. Initial program development selected monitoring locations based on field investigations, complaints, surveys, public interest and professional staff judgment.

In the 1970s, new and improved monitoring instruments were deployed. These included gas bubblers for SO<sub>2</sub> and NO<sub>2</sub>, metal hi-volume samplers (early samplers were made of wood), and later in the decade, continuous gas analyzers. During this time period, metals analyses began on HiVol TSP filters collected near smelting and mining activities.

Starting in 1975, major changes in the national and Montana air monitoring programs occurred with the formation of the Standing Air Monitoirng Work Group (SAMWG); an advisory group composed of from federal EPA, regional EPA, state, and local agencies. The group's purpose was to critically review and evaluate current air monitoring activities, develop more effective air monitoring strategies, help correct identified problems, improve overall current operations, and meet projected air monitoring goals.

With the promulagation of the 1977 Amendments to the Clean Air Act, several areas in Montana were designated nonattainment for several NAAQS pollutants. Air quality monitoring increased in these areas as control plans were developed. Field sampling, emission inventories and dispersion modeling allowed staff to focus on worst-case or maximum concentration sites (primarily) in CO and TSP nonattainment areas. In 1978, EPA promulgated a NAAQS for lead.

In East Helena and Colstrip, monitoring networks for TSP, Pb, NO<sub>x</sub>, SO<sub>2</sub>, as well as meteorological parameters were established to envelope the local point sources. These multiple site networks provided adequate coverage (regardless of the wind direction relative to the point sources) to determine maximum concentrations.

In 1979, the first Montana Network Review was completed and the Department designated each monitoring site in the State as a National Air Monitoring Station (NAMS), a State and Local Air Monitoring Station (SLAMS) or a Special Purpose Monitoring Station (SPM). The NAMS/SLAMS network was developed to meet four basic monitoring objectives (see Section 1.1). The original four monitoring objectives were later expanded to six.

From 1978 to 1982, the Department conducted the Montana Air Pollution Study (MAPS) with ambient air monitoring performed in Anaconda, Billings, Butte, Missoula, Columbia Falls, Colstrip, East Helena, Hardin, Bozeman and Great Falls. The purpose of the study was to relate air pollution concentrations with measured human health effects within and between the different communities. The Department published several documents detailing the results of the study.

At about the same time, the Department was also involved with investigative and background studies for the Flathead River Basin Environmental Impact Statement (Kalispell, Columbia Falls, Polson, etc.), Poplar River Project (by Scobey in northeast Montana), and energy development in eastern Montana (primarily in the Colstrip area).

In 1981-82, an SO<sub>2</sub> monitoring network was established as a condition of the 1977 Stipulation with the Billings/Laurel industries and the State. The network consisted of eight SO<sub>2</sub> sites equipped with meteorological sensors and one upper air station. Industrial locations, topography, wind roses, emission estimates and past ambient data were used to select monitoring locations suspected to present maximum concentrations or with the greatest potential for public health effects.

In the mid-1980s, PM<sub>10</sub> monitoring was initiated at several sites and expanded over the next few years once a new PM<sub>10</sub> NAAQS was adopted in 1987. Most of the original PM<sub>10</sub> monitoring was conducted at existing sites in western Montana which were selected based on the historical PM data showing elevated TSP concentrations. The results of the initial PM<sub>10</sub> monitoring resulted in non-attainment area designations for the following communities: Butte, Kalispell, Lame Deer, Libby, Missoula, Polson and Ronan. Subsequent PM<sub>10</sub> monitoring resulted in non-attainment area designations for Columbia Falls, Thompson Falls

and Whitefish.  $PM_{10}$  monitoring was conducted in those communities as well as other locations during the late 1980s and the 1990s. However, during the late 1990s and into the next decade, many of those sites were removed.

In 1997, EPA made major changes to the primary (health-based) PM NAAQS. Actions adjusted the 24-hour  $PM_{10}$  standard by changing the form of the standard, and established a new annual and 24-hour standards for  $PM_{2.5}$ . As a result of the new  $PM_{2.5}$  standards,  $PM_{2.5}$  sampling began at several  $PM_{10}$  monitoring sites on January 1, 1999, or soon thereafter. Similar to the process followed with the changeover from TSP to  $PM_{10}$ , the selection of the new  $PM_{2.5}$  monitoring locations was heavily influenced by the historical  $PM_{10}$  monitoring data. Initial monitoring results revealed a violation of the annual  $PM_{2.5}$  standard in Libby. Libby was declared a non-attainment area and a control plan was developed and implemented.

In 2006, EPA again revised the PM NAAQS by lowering the 24-hour PM<sub>2.5</sub> standard to more accurately reflect the effects on human health from exposure to fine particles. EPA also retained the annual PM<sub>2.5</sub> standard and the 24-hour PM<sub>10</sub> standard but dropped the annual PM<sub>10</sub> standard. As a result of these changes, additional PM<sub>2.5</sub> monitoring sites where established.

Appendix A of this document summarizes current monitoring being conducted by the Department and the county air programs. Appendix B of this document summarizes the historical monitoring sites operated by the Department, the county air programs and some of the company-conducted industrial monitoring required by their air quality permits.

# 1.4 OTHER AIR MONITORING PROGRAMS IN MONTANA

# 1.4.1 CLEAN AIR STATUS AND TRENDS NETWORK (CASTNET)

EPA created the CASTNET as a rural long-term network to assess the effectiveness of the Acid Rain Program which had been promulgated to reduce SO<sub>2</sub> and NO<sub>x</sub> emissions. CASTNET is operated in association with the National Atmospheric Deposition Program (NADP) and has grown to over 90 sites in the continental United States and Alaska. Its mission has been expanded to include ozone as well as sulfur and nitrogen pollutants. CASTNET sites measure rural, regionally representative (background) pollutant concentrations for the purpose of detecting and quantifying trends, estimating dry deposition and determining geographic distribution of pollutants.

In Montana, CASTNET is supported by EPA and the National Park Service. Data from the CASTNET network is archived in EPA's Air Quality System (AQS) – a national database of air pollutants measurements. Current CASTNET parameters include:  $SO_2$ , sulfate, ammonium,  $NO_x$  (including reactive oxides of nitrogen ( $NO_y$ ), nitric acid, nitrate, basic cations (magnesium, calcium, potassium, and sodium), chloride ions, CO, ozone, and meteorological data. The only Montana CASTNET site is in Glacier National Park near West Glacier (30-029-8001).

# 1.4.2 INTERAGENCY MONITORING OF PROTECTED VISUAL ENVIRONMENTS (IMPROVE)

The IMPROVE program is a cooperative air monitoring effort governed by a steering committee composed of representatives from the National Park Service (NPS), the Forest Service (USFS), the Bureau of Land Management (BLM), the Fish and Wildlife Service (FWS), National Oceanic and Atmospheric Administration (NOAA), EPA and regional-state organizations. In the western U.S., the regional-state organization is the Western States Air Resources Council (WESTAR) of which Montana is a member

The IMPROVE monitoring program was established in 1985 to aid Federal Land Managers in protecting visibility at national parks and wilderness areas (Class I Areas) as required by the federal Clean Air Act. In 2000-2001, the network was expanded for the Regional Haze rule. In Montana, there are 10 sites; the airsheds represented by the IMPROVE data and the agencies responsible are as follows:

- Medicine Lake, Medicine Lake National Wildlife Refuge, FWS
- U.L. Bend, U.L. Bend National Wildlife Refuge, FWS
- Sula, Anaconda-Pintler and Selway-Bitterroot Wilderness, USFS
- Glacier, Glacier National Park, NPS
- Monture, Bob Marshall, Mission Mountains & Scapegoat Wilderness, USFS
- Gates of the Mountains, Gates of the Mountains Wilderness, USFS
- Cabinet Mountains, Cabinet Mountains Wilderness, USFS
- Flathead, Flathead Reservation, Confederated Salish and Kootenai Tribes
- Fork Peck, Fort Peck Reservation, Assiniboine and Sioux Tribes
- Northern Cheyenne, Northern Cheyenne Reservation, Northern Cheyenne Tribe

IMPROVE program activities include:

- Research on all aspects of the visibility issue including the identification of chemical species and emission sources responsible for existing man-made visibility impairment.
- Design and operation of a long-term visibility monitoring program to establish current visibility and aerosol conditions in mandatory class I areas.
- Development of standard air quality/visibility simulation models for predicting new source impacts.
- Development and implementation of national visibility protection policies and documentation of long-term trends for assessing progress towards the national visibility goal.
- Monitored parameters: PM<sub>2.5</sub> mass; elemental concentraction; light adsorption; sulfate, nitrate, nitrite and chloride ions; organic and elemental carbon; and PM<sub>10</sub> mas

## 1.4.3 TRIBAL

Tribal air quality programs exist on most of the Indian reservations in Montana. All of the tribal programs operated ambient air monitors in the recent past and several sites are still operating as of the date of this report.

#### **Blackfeet Reservation**

The Blackfeet Reservation is located just east of Glacier National Park in north central Montana within Glacier and Pondera counties.  $PM_{10}$  data was collected at sites in Browning, East Glacier, and Babb for several years before ending in 2007. No exceedances of the MAAQS or NAAQS were noted. No ambient air monitoring is currently conducted on the Blackfeet Reservation.

#### Fort Belknap Reservation

The Fort Belknap Reservation is located in north central Montana within Blaine and Phillips counties. PM<sub>10</sub> data was collected for several years at sites in Fort Belknap Agency, Hays/Lodgepole and near Zortman. No exceedances of the MAAQS or NAAQS were noted. No monitoring is currently conducted on the Fort Belknap Reservation.

#### **Fort Peck Reservation**

The Fort Peck Reservation is located in the northeast corner of Montana within Valley, Roosevelt, Daniels, and Sheridan counties. During the 1980s the Fort Peck air quality program operated an extensive monitoring network for TSP, NO<sub>2</sub> and SO<sub>2</sub> in response to the construction and operation of a coal-fired power plant just north of the US/Canada border in Coronach, Saskatchewan. Recently the tribe monitored for  $PM_{10}$  but the measured concentrations were low so  $PM_{10}$  sampling was terminated. No exceedances of the MAAQS or NAAQS were noted. No ambient air monitoring is currently conducted on the Fort Peck reservation with the exception of an IMPROVE monitor north of Poplar.

## **Flathead Reservation**

The Flathead Reservation is located in western Montana within Lake, Sanders and Missoula counties. TSP monitoring began in 1980 at St. Ignatius and Arlee and  $PM_{10}$  samplers began operating at Polson and Ronan in the mid-1980s. The results of the initial  $PM_{10}$  monitoring resulted in non-attainment area designations in Polson and Ronan. Currently, the tribe air program operates continuous  $PM_{10}$  monitors in Polson and Ronan, and supports an IMPROVE monitor at Jette.

## **Crow Reservation**

The Crow Reservation is located in south-central Montana within Big Horn and Yellowstone counties. TSP monitoring was conducted at Crow Agency, Lodge Grass, and Pryor. No exceedances of the MAAQS or NAAQS were noted. No monitoring is currently conducted on the Crow Reservation.

# Northern Cheyenne Reservation

The Northern Cheyenne Reservation is located in eastern Montana within Bighorn and Rosebud counties. The tribal air quality program has operated an extensive network of monitors since 1980. There are three tribal ambient air monitoring sites located in the high terrain near the northern boundary of the reservation which is closest to the coal-fired power plants at Colstrip. These three sites have housed NO<sub>2</sub>, SO<sub>2</sub>, PM and visibility monitors since the 1980s and one of these sites currently includes an IMPROVE monitor. The tribe has also conducted TSP, PM<sub>10</sub> and PM<sub>2.5</sub> monitoring studies in Busby, Lame Deer and Birney.

# 1.4.4 INDUSTRIAL

The Montana industrial ambient air monitoring network includes pre-construction, permit mandated and Department operated sites with background and compliance monitoring conducted as necessary.

Industrial pre-construction ambient air monitoring is conducted prior to the Department issuing an operating permit under the requirements of the Prevention of Significant Deterioration (PSD) program. Once an operating permit is issued, continued ambient air monitoring may be warranted under the Administrative Rules of Montana (ARM) Section 17.8.105.

Currently, industrial monitoring for  $SO_2$  is conducted in the Great Falls and Billings areas due to emissions from local industries. In the Great Falls area, Calument Montana Refining operates one  $SO_2$  monitoring site near their petroleum refinery in Black Eagle. In the Billings/Laurel area, there is one  $SO_2$  monitoring site operated by the Department and a single  $SO_2$  monitoring site operated by Yellowstone Energy Limited Partnership.

In eastern Montana, the Department conducts  $PM_{10}$ ,  $PM_{2.5}$ ,  $O_3$ ,  $SO_2$  and  $NO_2$  monitoring to gauge impacts from ongoing oil and gas development. In southeastern Montana, the Department conducts  $PM_{10}$ ,  $PM_{2.5}$ ,  $O_3$ , and  $NO_2$  monitoring near the small communities of Broadus and Birney to collect background data in the Tongue River and Powder River drainages in anticaption of the development of coal bed methane. While to date coal bed methane projects have not come to furious the Department continues to operate these monitors to continue to profile background concentrations of ambient air.

# 1.5 QUALITY ASSURANCE/QUALITY CONTROL (QA/QC)

The Department operates a quality assurance and quality control (QA/QC) program to ensure that ambient air monitoring data supports and fulfills, in a scientifically defensible manner, the informational needs and regulatory functions of the Department. To achieve this goal, the program operates in accordances to the requirements of the Montana Ambient Air Monitoring Program Quality Management Plan (QMP) and the Quality Assurance Project Plan (QAPP), as well as associated Standard Operating Procedures (SOP). These documents are continuously maintained and periodically reviewed and approved by the USEPA.

The QA/QC program goals and objectives are as follows:

- Ambient air monitoring is well planned and designed to address the needs and objectives of the individual project.
- The resultant ambient air monitoring data is of known quality and determined to be reliable and accurate within a prescribed tolerance.
- Issues and uncertainty are promptly identified and corrected in a timely fashion.
- Improvements are continuously made in the operation of the ambient air monitoring program.

The term "quality control" encompasses all of the direct "internal" actions taken by air monitoring staff and laboratory personnel to achieve and maintain a desired level of quality and reliability for data collection and validation activities. Quality control activities ensure that measurement uncertainty is maintained within established data quality objectives. Quality control measures are applied at all stages of the data collection process, starting with planning and design, through the implementation, and ending with the processing, storage and reporting of the data.

The term "quality assurance" encompasses all "external" measures taken by the air program's QA Manager, other Department or EPA staff to ensure the data collection activity meets the air monitoring QA/QC objectives. Quality assurance refers to the system of activities which assure adequate performance of established QC measures. Or put another way, QA ensures programmatic activities of the monitoring program are properly conducted. Essential QA activites include;

- Review and approval of program planning documents.
- Audits of ambient air monitoring collection, analysis and data handling procedures.
- Evaluation of the effectiveness of QC procedures.

# 2.0 MONTANA'S AMBIENT AIR MONITORING NETWORK

Historically, most of Montana's air quality problems have generally been associated with urban areas or in mountain valleys susceptible to temperature inversions. Air quality parameters of interest, industrial air pollution emissions, historical trends, nonattainment areas, and other air quality issues are discussed in this document.

After the 1970 amendments to the CAA, each state was divided up into Air Quality Control Regions or AQCRs. Montana is apportioned into five AQCRs: 140, 141, 142, 143, and 144 (Figure 2-1). This document will use these defined regions in the description of Montana's ambient monitoring network.



Figure 2-1 Montana Air Quality Control Regions

# 2.1 NORTH WEST MONTANA

# 2.1.0 REGIONAL DESCRIPTION

The North West region covers the following seven counties: Lincoln, Flathead, Sanders, Lake, Mineral, Missoula, and Ravalli. These seven counties are all located west of the Continental Divide and cover an area of approximately 19,179 square land miles (13.2% of the state).

The southern and western portions of this region are bordered by Idaho and the northern portion is bound by Canada. Glacier National Park borders the region in the extreme northeastern corner. Much of the land is owned by the federal government, predominantly the Forest Service and the Bureau of Land Management. The entire region is located within the Rocky Mountains and is characterized by steep timbered mountains and mountain valleys. Some of those valleys are very small which leads to atmospheric ventilation problems. There are a number of rivers and lakes scattered throughout the region. Major rivers include the Bitterroot, Blackfoot, Clark Fork, Flathead, and the Kootenai, and all rivers ultimately drain out of the northwest corner of Montana. The region's climate is typically more mild and wet in in comparison to other regions in Montana, but it still is characterized as semi-arid with cold, dry winters, cool, moist springs, and warm, dry summers.

As a result of topography and land ownership patterns, much of the population is concentrated in the bottom of the mountain valleys in a relatively small number of communities. These mountain valleys are prone to temperature inversions which can be particularly severe and long lasting during the winter months. As a result of those stagnant atmospheric conditions, air pollutants are readily trapped under the inversion layer and concentrations can increase to unhealthy levels. The Missoula and Kalispell urban areas support the largest amount of industrial activity in the northwest region, mostly related to wood products. Other major economic activities in the region relate to government, higher education, service industries, and tourism.

# 2.1.1 PARTICULATE MATTER

# **Flathead County**

The particulate problems in Flathead Couty center on the communities in the greater Flathead Valley. The Flathead Valley is located west of the Continental Divide and is a fairly wide valley (14 miles across). The climate is mild with calm or low wind speeds. the area is susceptible to temperature inversions in the fall and winter. The valley's principle populations are the communities of Columbia Falls, Kalispell, and Whitefish. Wind patterns in the area are dominated by drainage winds through Badrock Canyon in the northeast corner of the valley and through a gap on the north end of the valley which drains the North Fork of the Flathead River.

Columbia Falls is located in the northeast corner of the Flathead Valley. A reduction in Industrial activity has occurred over the last decade with the closure of a plywood-particle board-sawmill complex and an aluminum reduction plant. Several smaller wood products facilities and a medium density fiber board facility remain.

Particulate monitoring has been conducted in Columbia Falls since 1971. Initial sampling was performed using standard HiVol TSP samplers. The two principal sites were at the Anders Residence (30-029-0005) and the Junior High School (30-029-0003). In May 1985, the Department installed a PM<sub>10</sub> sampler at the Junior High

School. The Anders Residence site was closed in 1987 after TSP data from both sites were compared and determined they were measuring the same air mass.

The Junior High School Site measured an exceedance of the 24-hour PM<sub>10</sub> standard in October 1987, and the area was designated moderate nonattainment for PM<sub>10</sub> in 1990. From September 1989 until April 1990, the Department conducted a chemical mass balance (CMB) source apportionment study in Columbia Falls. The results from this CMB study indicated fugitive dust was the major contributor to the PM<sub>10</sub> problem. A PM<sub>10</sub> control plan was submitted to the EPA in November 1991. The plan consisted of controls on fugitive dust emissions from roads, parking lots, construction, and demolition, as well as the Plum Creek facility. EPA approved the Columbia Falls SIP April 14, 1994. Data from the PM<sub>10</sub> samplers at the Junior High School site indicated no violations of either the annual or short-term PM<sub>10</sub> standards from 1988 through 2002.

Complaints about dust from a bark processing facility on the north edge of town led to informal sampling in the nearby neighborhood starting in July 2000 and ultimately to the establishment of a new monitoring site just south of the bark processing facility (Ball Park 30-029-0007). PM<sub>10</sub> data measured at the new Ball Park site proved to be consistently higher than data from the old Junior High School site, so the Junior High site was closed at the end of 2002. The Ball Park site never measured an exceedance of the PM<sub>10</sub> standards except during severe wildfire events.

In March 2008, PM<sub>2.5</sub> monitoring began at the Ball Park site. The results are somewhat elevated and generally higher than the other PM<sub>2.5</sub> sites in the Flathead Valley but none have exceeded the NAAQS; except during summer wildfire events. The monitoring site representing the community of Columbia Falls community was relocated to the Columbia Falls High School athletic field (30-029-0049) in August of 2011. The proposed rule redesignating the Columbia Falls PM<sub>10</sub> nonattainment area was approved by EPA and the proposed rule published 3/20/2020 (85 FR 16029). The public comment period has closed and the resdesignation is awaiting final issuance.

In Flathead County, the majority of the residents live within a 15-mile radius of the city of Kalispell, the county seat of Flathead County which serves as a business, service, and shopping center for the greater Flathead Valley. Kalispell is located at the southern end of the valley only a few miles north of Flathead Lake – the largest freshwater lake west of the Mississippi River.

Particulate matter has been monitored in Kalispell since 1971. From 1977 to 1982, Kalispell was one of the communities involved with the Flathead River Basin Environmental Impact Statement (EIS). Monitoring was conducted at several locations in the basin and it was determined that the highest concentration points were associated with anthropogenic sources in the city centers.

Anticipating promulgation of new PM<sub>10</sub> NAAQS, the Department conducted a CMB source apportionment study in Kalispell in 1986 and 1987. The CMB study identified entrained road dust as the predominant PM source, followed by residential wood combustion. Kalispell was designated as a moderate PM<sub>10</sub> nonattainment area in November 1990. A PM<sub>10</sub> control plan for Kalispell was developed and submitted to EPA on June 29, 1990. The final plan (November 1991) consisted of controls on fugitive dust emissions from roads, parking lots, construction and demolition. EPA approved the Kalispell PM<sub>10</sub> control plan on March 19, 1996.

As a surrogate for real-time particulate matter data, visibility monitoring with a nephelometer was conducted at the Courthouse East site (30-029-1017) in Kalispell

from January 1991 to March 1993. The nephelometer estimated particulate levels for the voluntary wintertime wood burning curtailment program. The nephelometer was replaced with a different type of continuously operated particulate monitor, a Tapered Element Oscillating Microbalance (TEOM) in October 1993. In 1995, this site was shut down and the TEOM moved to the Kalispell Universal Athletics (30-029-1015)  $PM_{10}$  site.

The Universal Athletics site presented problems with adequate airflow, security, and convenience. In response, the Department moved the TEOM to a new centrally located site in Kalispell at Flathead Electric training facility (30-029-0047) on July 1, 1999. A comparison of the PM<sub>10</sub> data from the manual samplers at Universal Athletics with TEOM data from Flathead Electric indicated the Flathead Electric site adequately represented the local area, so the Universal Athletics site was closed in June 2001.

Another PM<sub>10</sub> monitoring site was developed northeast of Kalispell along U.S. Highway 2 at the Evergreen Fire Station (30-029-0043) and operations began in June 1994. The Plum Creek sawmill and plywood plant was located approximately a ½ mile west of the site. In 1998, a review of the data revealed some elevated values, but data was below the level of the NAAQS and declining, even though the site location was source oriented. Since it represented only a small portion of the local population, the Evergreen Fire Station site was terminated at the end of 1999.

Starting in January 1999, the first PM<sub>2.5</sub> monitoring in Kalispell started at the Evergreen Fire Station site. In June 1999, space issues and the desire for a site more representative of citywide population exposure resulted in the relocation of the PM<sub>2.5</sub> samplers to the new Flathead Electric site (30-029-0047). In August 2004, the PM<sub>10</sub> TEOM monitor at the Flathead Electric site was replaced with a PM<sub>10</sub> beta attenuation monitor (BAM). Continuous PM<sub>10</sub> sampling continued until July 2008. At that time, the PM<sub>10</sub> BAM was converted to provide continuous PM<sub>2.5</sub> data which is more relevant information for population exposure under summer wildfire events. At the same time, Low-Volume PM<sub>10</sub> monitors were installed to replace the data lost by the conversion of the BAM.

The proposed rule redesignating the Kalispell PM<sub>10</sub> nonattainment area was approved by EPA and the proposed rule published 3/20/2020 (85 FR 16029). The public comment period has closed and the resdesignation is awaiting final issuance.

The City of Whitefish is located in the northwest corner of the Flathead Valley at the southern end of Whitefish Lake. In the past the major economic activity in Whitefish centered on the refueling depot for the largest and northernmost railroad line in the U.S. Today, in addition to the railroad activity, Whitefish is a major tourist destination with larger summer resorts and a winter ski area.

As part of the Flathead River Basin EIS, the Department monitored TSP in Whitefish from 1981 to 1983 and that data indicated compliance with the TSP NAAQS. However, the Department suspected the monitoring site was not located in the area of maximum concentration. As a result of the 1990 Network Review, the Department installed a PM<sub>10</sub> site at Markus Foods (30-029-0039) in the Whitefish central business district. Sampling began in April 1991 and over the next few years numerous exceedances of the PM<sub>10</sub> NAAQS were recorded at the Markus Foods site.

On October 19, 1993, Whitefish was designated as a PM<sub>10</sub> nonattainment area in a formal notice published within the United States Federal Registar (FR) - 58 FR 53886. A CMB source apportionment study was conducted in Whitefish from January 1993 through March 1994 and the results identified entrained road dust as the largest single source of PM<sub>10</sub>. On November 1, 2001, EPA published a notice of

attaining standards at 66 FR 55102. However, the Whitefish PM<sub>10</sub> control plan remains "not approved" by EPA.

To confirm the Markus Foods as the maximum concentration  $PM_{10}$  site, a saturation study was preformed in February - April 1993. Eleven sites, most located in areas with potentially high  $PM_{10}$  levels, were chosen and portable samplers were deployed. The study results revealed elevated  $PM_{10}$  levels in the general downtown area and along U.S. Highway 93 south of town with no statistical difference between the two areas. In August 1995, a  $PM_{10}$  TEOM sampler was installed at the Markus Foods site along with a manual  $PM_{10}$  sampler. In January 2000, a collocated manual  $PM_{10}$ sampler was installed at the site to replace the collocated  $PM_{10}$  sampler lost when the Evergreen Fire Station site was closed. In January 1999,  $PM_{2.5}$  monitoring began at Markus Foods, and that year, a maximum 24-hour  $PM_{2.5}$  concentration of 27  $\mu$ g/m<sup>3</sup> (reported in local conditions) was measured at the site.

Structural changes at Markus Foods and a growing roasted chicken business (localized smoke impacts from roof exhaust) forced closure of the site in March of 2001. A replacement site in the downtown area could not be secured and thus a new site, Whitefish-Deadend (30-029-0009), was established on U.S. Highway 93 where it enters the downtown area. A comparison of the data from the old Markus Foods site and the new Dead End site indicated both sites were monitoring the same airshed. In July 2004, the PM<sub>10</sub> TEOM monitor at the Dead End site was replaced with a PM<sub>10</sub> BAM. Continuous PM<sub>10</sub> sampling continued until July 2008. At that time, the PM<sub>10</sub> BAM was converted to provide continuous PM<sub>2.5</sub> data which is more relevant information for population exposure under summer wildfire events. At the same time, Low-Volume PM<sub>10</sub> monitors were installed to replace the data lost by the conversion of the BAM.

Upon analysis of available continuous data representing the greater Flathead Valley, the Department determined that PM<sub>2.5</sub> concentrations throughout the airshed were relatively homogenous, and further, that Columbia Falls consistently was demonstrated to be the highest point of concentration. Based on these conclusions, PM<sub>2.5</sub> monitoring was discontinued in Kalispell and Whitefish in August of 2011. This adjustment allowed for conversion of the BAM instruments at the Kalispell (Flathead Electric 30-029-0047) and Whitefish (Dead End 30-029-0049) back to PM<sub>10</sub> continuous samplers. The Columbia Falls site remains the sole PM<sub>2.5</sub> monitor representing the Flathead Valley airshed.

#### Lincoln County

Lincoln County experiences air quality issues prompted by temperature inversion typical to other western valley communities in Montana. Population centers of within Lincoln County include Libby, Troy and Eureka.

The town of Eureka is situated in rolling hills along the Tobacco River approximately five miles east of Lake Koocanusa. As with the other communities in western Montana, the Department's air quality concerns centered on particulate matter with emissions from entrained road dust during spring thaws and wood combustion for space heating being the primary concerns. Particulate monitoring for TSP in Eureka started in 1984. 24-hour average concentrations exceeded the short-term TSP NAAQS on a few occasions. In 1987, the Department replaced the TSP sampler with a PM<sub>10</sub> sampler and sampling continued through June 1992. Since PM<sub>10</sub> levels were in compliance with the PM<sub>10</sub> NAAQS, sampling was discontinued.

The city of Libby is the county seat of Lincoln County and it's located along the Kootenai River. The Kootenai Valley runs approximately east to west in the Libby area and is only about 2 miles wide. During the fall and winter months, winds are

typically calm or light. The light winds with persistent temperature inversions contribute to the significant accumulation of particulate in the narrow valley.

Particulate monitoring has occured in Libby since the mid-1970s, with the principal TSP sites being the Brown Residence (30-053-0010) and the Lincoln County Courthouse (30-053-0012). Exceedances of the TSP NAAQS were measured at both sites.

In May 1985, the Department installed a PM<sub>10</sub> sampler at the Courthouse site, followed by discontinuation of TSP sampling at the Brown Residence in August of 1985. Analysis of the TSP data from the Lincoln County Courthouse and the Brown Residence revealed both sites were monitoring the same airshed. In 1986, another monitoring site was established a few blocks away at the County Courthouse Annex (30-053-0018). The original Courthouse monitoring site was discontinued in April 1995, after comparison of data with that collected at the Annex site indicated the original Courthouse PM<sub>10</sub> site was redundant.

From October 1987 until December 1988, the Department conducted a CMB source apportionment study in Libby. Results of the study identified entrained road dust and residential wood combustion as the principal particulate sources. In November 1990, Libby was designated a moderate PM<sub>10</sub> nonattainment area. The PM<sub>10</sub> control plan was developed and submitted to EPA on November 25, 1991. However, EPA requested several revisions to the plan before it was approved. The Department made revisions and the modified plan was submitted on May 24, 1993, and approved on August 30, 1994.

As part of the PM<sub>10</sub> control plan, the Lincoln County Health Department (LCHD) agreed to operate a mandatory wintertime curtailment program to reduce emissions from wood burning stoves and fireplaces. For use in the episodic control plan, a nephelometer was installed at the County Courthouse Annex site and operated from December 1986 to October 1993. The real-time data from nephelometer was a surrogate for PM<sub>10</sub> data and used by the LCHD to call alerts for their episodic control program. In October 1993, the Department replaced the nephelometer with a PM<sub>10</sub> TEOM monitor which was operated until it was replaced by a BAM in October 2003. The BAM data continues to be used in the episodic control program.

In January 1999, PM<sub>2.5</sub> monitoring started at the Courthouse Annex site and the samplers were collocated a year later. Data from the PM<sub>2.5</sub> monitors indicated very high PM<sub>2.5</sub> concentrations, predominantly during the winter months. In fact, the wintertime results were so high they skewed the data from the other seasons enough that the Libby area exceeded the annual PM<sub>2.5</sub> NAAQS. As a result, the Libby area was declared a nonattainment area for the PM<sub>2.5</sub> annual standard in 2004.

To better understand the PM<sub>2.5</sub> problem in Libby, PM<sub>2.5</sub> speciation sampling was started in February 2002. The speciation sampling identified organic carbon as comprising the majority of the fine particulate matter during the winter months. From November 2003 through March 2004, a special winter study was conducted to evaluate the representativeness of the data from Courthouse Annex site and the geographical distribution of high PM<sub>2.5</sub> concentrations in Libby. The results from the special study revealed high PM<sub>2.5</sub> concentrations were found within the city center and south along the Farm-to-Market road. During approximately the same time period, a PM<sub>2.5</sub> CMB source apportionment study was conducted. The CMB study results identified wood smoke as contributing 82% of the mass, on the average, to the wintertime PM<sub>2.5</sub> concentrations in Libby. After a review of more than 6 years of PM<sub>2.5</sub> speciation data and the data from two CMB source apportionment studies, the results clearly identified combustion of wood biomass as the major source of PM<sub>2.5</sub> in

the Libby airshed during the winter months. As a result of that review, the Department decided there was little value left in continuing speciation monitoring in Libby and and therefore discontinued in July 2008.

A PM<sub>2.5</sub> control plan was developed and submitted to EPA in June 2006, with further refinements submitted in May 2008. EPA, the woodstove industry, and state and local governments devised a program to replace older, uncertified wood stoves with newer, EPA-certified units. The replacement program operated from 2005 through 2007 and ultimately more than 1,100 wood burning devices were replaced. As part of the PM<sub>2.5</sub> control plan, revisions were made to LCHD's episodic wood burning control program and continuous PM<sub>2.5</sub> sampling was initiated at the Courthouse Annex site with the addition of a BAM monitor in 2005. In the winter of 2008-2009, in response to public concerns about the representativeness of the data from the Court House Annex site, the Department conducted a brief PM<sub>2.5</sub> saturation study and the results from this study validated the selection of the Annex site. On May 12, 2015 EPA issued a Clean Data Determination for the Lincoln County PM<sub>2.5</sub> Nonattainment area, stating that the area is attaining the standard. Monitoring data continues to demonstrate compliance with both the annual and 24-hour PM<sub>2.5</sub> NAAQS in Libby.

The proposed rule redesignating the Llbby PM<sub>10</sub>nonattainment area was approved by EPA and the proposed rule published 3/20/2020 (85 FR 16029). The public comment period has closed and the resdesignation is awaiting final issuance.

The small city of Troy is situated in the Kootenai River Valley approximately 18 miles west of Libby. Troy is like Libby in that it suffers from poor atmospheric ventilation. In October 1991, two  $PM_{10}$  samplers were installed at the high school (30-053-0019).  $PM_{10}$  results were relatively low for the next 3 years and the site was shut down on June 30, 1995.

#### **Missoula County**

Missoula County has a long history of problems with particulate matter, especially in the city of Missoula and the town of Seeley Lake. Missoula is situated at the confluence of the Bitterroot and Clark Fork Rivers at the eastern edge of the Missoula Valley. Missoula is the second largest city in Montana and one of Montana's three metropolitan statistical areas (MSA). The Missoula Valley is relatively narrow, approximately 6 miles across, and effectively isolated from the larger Bitterroot Valley to the south. The valley is susceptible to temperature inversions in the fall and winter months and wind speeds are normally low throughout the year.

Ambient air monitoring in Missoula has been quite extensive and comprehensive. The Missoula City-County Health Department (MCCHD) has monitored for particulate matter at several sites in the Missoula Valley without interruption since 1971. During the early and mid 1970's, the highest TSP concentrations were measured in the Missoula central business district at the County Courthouse Roof site (30-063-0001). After the passage of the Clean Air Act Amendments of 1977, the Missoula area was designated as nonattainment for the primary TSP standards. A control plan was designed and implemented to control entrained road dust. In addition, several control strategies were adopted to reduce emissions from the combustion of wood for space heating purposes. By 1982, the Missoula area was complying with the annual TSP NAAQS but there were still sporadic exceedances of the 24-hour TSP standard.

In the years since the TSP nonattainment designation, the MCCHD operated TSP monitors at several locations in and near the Missoula Valley, as follows:

- Bonner near a major sawmill/plywood factory,
- Lolo at the wastewater treatment plant,

- Frenchtown next to a Kraft pulp & paper mill,
- East Missoula,
- the "Rattlesnake" area north of the University of Montana,
- the "South Hills" area of southwest Missoula, and
- at locations near the western edge of the city.

In 1984, in addition to TSP data, MCCHD started collecting  $PM_{10}$  data at their existing Rose Park (30-063-0020) and Boyd Park (30-063-0024) sites. In that first year of  $PM_{10}$  monitoring, several exceedances of the  $PM_{10}$  24-hour NAAQS were measured. In 1985, a site was established at the MCCHD office building (Health Department, 30-063-0031) and TSP sampling initiated. In 1987,  $PM_{10}$  sampling began at that site.

During the winter of 1986-1987, the MCCHD conducted a  $PM_{10}$  CMB source apportionment study. The study showed that the major sources contributing to the high  $PM_{10}$  levels were entrained road dust and residential wood combustion. In November 1990, Missoula was officially designated as a moderate  $PM_{10}$  nonattainment area and on January 18, 1994, EPA approved the Missoula  $PM_{10}$  control plan.

In 1995, the Boyd Park TEOM became the site's primary  $PM_{10}$  compliance and SLAMS monitor. In February 1999, primary and collocated  $PM_{2.5}$  monitoring began at Boyd Park and  $PM_{2.5}$  sampling also began at the Health Department site at the same time. In March of 2001,  $PM_{2.5}$  speciation sampling began at the Boyd Park site.

The initial PM<sub>2.5</sub> sampling results revealed elevated concentrations, with the annual means approaching the standard. In response, during 2000 - 2001, the MCCHD hired University of Montana researchers to investigate the distribution of volatile organic compounds (VOC), and semi-volatile organic compounds (SVOC) in Missoula PM<sub>2.5</sub> samples. The final report evaluated the relationships between airborne pollutants (both gaseous and particulate) in the Missoula airshed. A CMB source apportionment model was run and those results indicated, depending on the season, that 40-70% of the PM<sub>2.5</sub> mass resulted from wood combustion.

In 2001, the MCCHD building was renovated which forced a restructuring of the particulate monitoring network in Missoula over the next few years. PM<sub>2.5</sub> and PM<sub>10</sub> monitors were moved back and forth between the Health Department and Boyd Park, and the data was analyzed in an attempt to determine if all PM monitoring could be consolidated at just one site. By February 2009, the data collected was sufficient to determine the PM<sub>10</sub> samplers at the MCCHD and Boyd Park sites were monitoring the same airshed so PM<sub>10</sub> sampling was discontinued at the MCCHD site.

In November of 2008 continuous  $PM_{2.5}$  monitoring started at Boyd Park. New BAM  $PM_{2.5}$  and  $PM_{10}$  monitors were installed, and the number of manual samplers was reduced, including the elimination of the  $PM_{2.5}$  speciation sampler. As of the end of 2009, the Boyd Park site houses a pair of collocated BAM  $PM_{2.5}$  monitors and a single BAM  $PM_{10}$  monitor. All three monitors are certified as federal equivalent methods (FEM) which produces compliance worthy data. Each BAM continuously samples the air and integrates the sample into an average  $PM_{10}$  or  $PM_{2.5}$  concentration for each hour of the day. At the Health Department site, monitoring was reduced to manual  $PM_{2.5}$  samplers operating once every third day. The Missoula nonattainment area was redesignated to attainment effective on June 24, 2019 (84 FR 24037) and is currently in the first maintenance period.

Historically, in cooperation with Smurfit/Stone Container, MCCHD operated two particulate matter sites at Stone's Kraft pulp mill near Frenchtown. These sites were

operated as TSP sites until May 18, 1992, when they were switched to  $PM_{10}$  samplers. However, in early 2010, the Smurfit/Stone Container pulp mill was closed and ambient  $PM_{10}$  monitoring was terminated. A single station, the Frenchtown-Beckwith site (30-063-0037) remains in the monitoring of  $PM_{2.5}$ .

In August 1997, the Department installed a PM<sub>10</sub> monitor in Lolo (Lolo Lube Center #30-063-0035) with data collection beginning in August 1997 and ending in June 2000. Over the period of operation, the maximum 24-hour value was 52  $\mu$ g/m<sup>3</sup> and the annual mean averaged about 15  $\mu$ g/m<sup>3</sup>.

In August 2002, MCCHD initiated PM<sub>2.5</sub> sampling at Lions Park in Milltown to evaluate air quality in this small narrow river valley. The Bonner/Milltown area is a few miles east of Missoula and the local area is separated from the larger Missoula Valley by the narrow and short Hell Gate Canyon. At the time, the Bonner/Milltown area was home to a large wood products facility. The monitoring results demonstrated very little difference in the average PM<sub>2.5</sub> values between the Missoula and the Bonner/Milltown areas, and the Milltown site ended in 2005.

The small unincorporated town of Seeley Lake is located approximately 32 air miles northeast of Missoula. The community is located in a narrow valley between the Mission and Swan Mountain ranges on the edge of a small lake. Seeley Lake is home to a small wood products facility and is a summer and winter recreation destination. The community is typical of others in western Montana with many residents using wood stoves for heating purposes, and sanding material is applied for traction control purposes during the winter months. For those reasons, plus its location in a mountain valley prone to inversions, a monitoring site (30-063-0021) was installed during the summer of 2004 to evaluate both PM<sub>2.5</sub> and PM<sub>10</sub>. The PM<sub>10</sub> data was elevated but of more concern were the high PM<sub>2.5</sub> values and the shortcomings related to siting criteria at this monitoring site. As a result, a new PM<sub>2.5</sub> site with a continuous BAM monitor was installed (in compliance with EPA siting criteria) at the Elementary School (30-063-0023) in November 2009. A fol

#### **Ravalli County**

In Ravalli County majority of particulate matter monitoring has been conducted in Hamilton, the county seat. Hamilton is a small but rapidly growing city situated near the center of the Bitterroot Valley approximately 50 miles south of Missoula. Hamilton often experiences better wintertime ventilation than nearby Missoula even thought it's approximately 300 feet higher in elevation. There are many times, however, when temperature inversions in Hamilton trap pollutants and particulate concentrations are elevated to levels approaching the NAAQS.

In 1983, the Department initiated TSP sampling at the Ravalli County Courthouse (30-081-0001) in the central business district mainly due to citizen complaints about dust and wood stove emissions. In 1986, the Department installed a PM<sub>10</sub> sampler at the same location and collected TSP and PM<sub>10</sub> data until 1987. On July 31, 1987, EPA promulgated new PM<sub>10</sub> standards. Mainly due to resource constraints with implementing a monitoring network for the new PM<sub>10</sub> standard, the Department discontinued both TSP and PM<sub>10</sub> monitoring in Hamilton during the fall 1987.

Due to the rapidly expanding population of the Bitterroot Valley and renewed citizen concerns, the Department reopened the Ravalli County Courthouse  $PM_{10}$  site (30-081-0001) in June 1994. In July 1994, a site began operations at Montana Gold Realty (30-081-0002). This site was within two blocks of the County Courthouse site and adjacent to U.S. Highway 93. The Montana Gold site consistently produced  $PM_{10}$  values higher than the Courthouse site but neither site measured concentrations in excess of the  $PM_{10}$  NAAQS. As a result of the  $PM_{10}$  data comparison, the Department terminated the County Courthouse site on July 31,

1997. Even though  $PM_{10}$  data from the Montana Gold Realty site revealed higher concentrations than data from the County Courthouse site, the values were not high and were trending down.

The Montana Gold site developed electrical safety issues and the site was terminated in late 1999 and the County Courthouse site with a was reopend with the resumption of PM<sub>10</sub> sampling. A PM2.5 sampler was added to the site On January 1, 2000. During this general time period, the Department became more concerned about high smoke levels due to increasingly more frequent summer wildfires events. This concern is especially valid in the Bitterroot Valley since Hamilton and most of the valley are only 10-20 miles directly downwind of the Bitterroot-Selway Wilderness Area – the largest wilderness area in the lower 48 U.S. states. The desire to track smoke impacts from summer wildfire events led to the decision to install continuous PM<sub>2.5</sub> monitoring in Hamilton. However, the roof of the County Courthouse site was not a location well suited for a continuous monitoring shelter, so the County Courthouse site was closed in June 2005. Since PM<sub>10</sub> values at the County Courthouse site were low, PM<sub>10</sub> monitoring was discontinued in Hamilton then as well. A new PM<sub>2.5</sub> site, Parking Space #46 (30-081-0007) was selected about a block away at a former parking spot for County deputy sheriff cars. A monitoring shelter was installed at ground level and manual and continuous PM2.5 monitors began operating in June 2005.

The Bitterroot National Forest essentially surrounds the Bitterroot Valley and in the mid-1990s, and with assistance and support from the Department, the Bitterroot National Forest voluntarily started two new sites to measure the effects of their open burning activities on the local air quality. The first site was located at the Stevensville Ranger Station (30-081-0003), which is located approximately 21 miles north of Hamilton and approximately 26 miles south of Missoula. The Stevensville Ranger Station site included a TEOM which generated continuous PM<sub>10</sub> data reported on an hourly basis starting in July 1994. Since the beginning of operations, generally low PM<sub>10</sub> values were the norm and the site terminated in June 2004. The other site operated by the Bitterroot National Forest was at the West Fork Ranger Station (30-081-0004) located in a remote part of the Bitterroot National Forest along the West Fork of the Bitterroot River approximately 25 miles south of Hamilton. This site was equipped with a manual PM<sub>10</sub> sampler but it proved difficult to support during the forest fires of 2000, so the PM<sub>10</sub> monitor at the West Fork Ranger Station was removed after a relatively short period of operation.

#### **Sanders County**

In Sanders County particulate matter concerns center on the county seat of Thompson Falls. The small city of Thompson Falls is located on the north side of Thompson Falls Reservoir, a small impoundment of the Clark Fork River. Thompson Falls lies in the Clark Fork Valley which runs east and west with mountains rising to approximately 7,000 feet in the local area. Like all the other mountain valleys in western Montana, the area experiences severe temperature inversions during the fall and winter months.

The Department conducted limited TSP monitoring in the 1970's but it was not until 1983 that a permanent TSP site was established at the Sanders County Courthouse (30-089-0003). Data collected revealed concentrations which exceeded the TSP NAAQS but the area was not declared non-attainment for TSP due to EPA's "rural fugitive dust" policy in effective at the time.

In 1985, the Department installed a  $PM_{10}$  sampler at the same location. In 1988, the  $PM_{10}$  samplers at the Sanders County Courthouse site recorded concentrations in excess of the 24-hour  $PM_{10}$  standard and the Department was forced to develop a  $PM_{10}$  control plan to bring the area into compliance. In July 1988, the Department

increased the sampling frequency to every day and that frequency was maintained until July 1, 1992.

In 1990, a CMB source apportionment study was conducted using data collected at two sites: Railroad (30-089-0005) and Muster Ranch (30-089-0006). The study identified entrained road dust as the major source of  $PM_{10}$  emissions with smaller contributions from wood combustion and the hog fuel boilers at WI Forest Products (a local sawmill). The Department developed a  $PM_{10}$  control plan which required frequent street sweeping and other road dust reduction techniques and submitted it to the Board of Environmental Review in June 1997. EPA approved the Thompson Falls  $PM_{10}$  control plan at 69 FR 3011 on January 22, 2004.

A decision to re-roof the courthouse forced the Department to remove the monitors on July 8, 1999 and they were installed at a new site at the Thompson Falls High School (30-089-0007).  $PM_{10}$  sampling started on October 3, 1999 and it continues to this date.

Like other communities in Montana mountain valleys, Thompson Falls can be prone to an accumulation of smoke under severe temperature inversions during the fall and winter months, so once resources allowed, the Department added  $PM_{2.5}$  monitors to the high school site and sampling began on January 1, 2000. The data collected to date indicates moderately elevated  $PM_{2.5}$  concentrations but no NAAQS violations.

## 2.1.2 SULFUR DIOXIDE

#### **Missoula County**

During the MAPS study and a few years later, the Department monitored for  $SO_2$  in Missoula at two sites.  $SO_2$  monitoring was conducted at Lions Park (30-063-0019) during 1977 and 1978, and also at Rose Park (30-063-0020) during 1982 and 1983. There were no exceedances of the NAAQS recorded at either site, but monitoring success was intermittent and the data recovery was poor.

## 2.1.3 LEAD

#### Flathead County

During the MAPS study and for several years later, the Department operated approximately 3 different lead monitoring sites in Flathead County. The sites operated for a year or two during the late 1970s and the early 1980s, and all sites were in compliance with the lead NAAQS.

#### **Missoula County**

During the MAPS study, the Department operated 2 lead monitoring sites in Missoula. The sites operated from 1978 through 1980 and both sites were in compliance with the lead NAAQS.

#### Sanders County

In 1984, the Department operated one lead monitoring site at the Sanders County Courthouse in Thompson Falls and the site was in compliance with the lead NAAQS.

# 2.1.4 CARBON MONOXIDE

# Flathead County

The Kalispell micropolitan statistical area serves as a business, service, and shopping center for the greater Flathead Valley. The Flathead Valley is located west

of the continental divide and is a fairly wide (14 miles across) valley. The climate is mild with calm or low wind speeds. Like many communities in the western part of the State, the area is susceptible to temperature inversions in the fall and winter. Two major highways serve Kalispell; U.S. Highway 2 (an east/west route) and U.S. Highway 93 (a north/south route). These two highways meet at a stoplight in Kalispell at Main Street (Highway 93) and Idaho Avenue (Highway 2). The queuing time for this intersection used to be lengthy, allowing motor vehicles to idle for extended periods, emitting large quantities of CO.

Residential wood combustion in Kalispell is common as much of the community has easy access to wood from local forests. The CO emitted by traffic at the Main Street-Idaho Avenue intersection combined with the area-wide contribution from wood stoves has the potential to create elevated concentrations of CO.

The Department conducted a CO saturation study in Kalispell from December 16, 1994, to January 2, 1995. Partly due to the results of the saturation study, a CO monitoring site (Idaho & Main, 30-029-0045) was established near the intersection of U.S. Highway 2 and U.S. Highway 93 in Kalispell with data collection beginning on October 31, 1995. Two exceedances of the 8-hr CO NAAQS were recorded at the Idaho & Main site in January 1996. No other exceedances were ever monitored and reconstruction of the intersection to improve traffic flow and reduce queuing time forced the Department to remove the Idaho & Main site by March 31, 2000.

The 1994 CO saturation study in Kalispell identified a second potential problem area at the intersection where Idaho Ave (i.e., US 2 - the main east-west road through Kalispell) turns north onto LaSalle Road and heads toward Glacier National Park. The Department chose to evaluate this intersection while the intersection near the original Idaho & Main CO monitoring site was being reconstructed. Thus, after the closure of the Idaho & Main site, its monitoring equipment was moved to a location about 100 yards west of the Idaho Ave & LaSalle Road intersection. This new site was named Shopko (30-029-0048) and monitoring started April 4, 2000. After three winters of monitoring, the CO concentrations measured at the new Shopko site did not appear to be appreciably different from the data collected at the old Idaho & Main site. As a result, the Shopko site was terminated and the equipment was moved back to a new site located very close to the original Idaho & Main monitoring site at the intersection of U.S. Highway 2 and U.S. Highway 93. The new site was named Moose's Saloon (30-029-0010) and it began operation during the summer of 2003.

A second CO site, Laser School (30-029-0046), was established at a location within several blocks of the original Idaho & Main site in an attempt to define the extent of the CO problem in Kalispell. Laser School was sited at a neighborhood scale with data collection beginning on November 1, 1996. On June 20, 1999, the Laser School site was terminated because of air flow issues created by three large coniferous trees. A new site, Flathead Electric (30-029-0097), was established three blocks to the south on June 24, 1999. The Flathead Electric site was designed to meet the neighborhood scale siting criteria and, like Laser School, was used to define the geographic extent of the Kalispell CO problem. A review of the data from the Flathead Electric site revealed its CO concentrations, after a lag time of hours, occasionally approached the peak CO concentrations measured at the Shopko site, indicating that CO in the Kalispell Central Business District (CBD) is widely distributed under stagnant conditions. Since the CO values monitored at the Flathead Electric site was terminated on December 31, 2005.

Following the violation of the 8-hour NAAQS in January 1996, EPA put Kalispell under a "SIP call." In May 1997, the Department submitted a draft CO emission

inventory based on calendar year 1996 to EPA. However, a traditional control plan was never submitted and, in the interim, the intersection of U.S. Highways 2 & 93, where the violation occurred, was modified during 2000 to improve traffic flow. The effects of the intersection reconstruction project reduced CO emissions, since, even over all of the intervening years of continuous CO monitoring, the Department never recorded another exceedance of the 8-hour CO NAAQS in Kalispell after the only two exceedances were monitored in 1996. As a result of no additional exceedances of the short-term NAAQS and steadily declining CO values, the Department terminated CO monitoring in Kalispell at the end of 2009.

#### **Missoula County**

The Missoula metropolitan statistical area serves as a business, service and shopping center for much of western Montana and a portion of east-central Idaho. The City of Missoula situated at the confluence of the Bitterroot and Clark Fork Rivers at the eastern edge of the Missoula Valley. The Missoula Valley is fairly narrow, approximately 6 miles across and effectively isolated from the larger Bitterroot Valley to the south. The valley is susceptible to temperature inversions in the fall and winter months and wind speeds are normally low throughout the year.

The city of Missoula was designated nonattainment for CO on March 3, 1978, based on high concentrations recorded at the intersection of Brooks (U.S. 93), Russell, and South streets. This intersection and the monitoring site are known as Malfunction Junction (30-063-0005). Over the years, exceedances of the 8-hour CO standard have also been monitored at other sites in Missoula: Boyd Park (30-063-0024), in the downtown area on Higgins Avenue (30-063-0023), and Lions Park (30-063-0019).

In August 1981, the Department submitted a revised CO control plan which called for the reconstruction of the Malfunction Junction intersection; including limited turn lanes, changing timing sequences for the traffic lights, and increased vehicle speeds. Additional roadway reconstruction was performed on Highway 93 between Mount Avenue and Reserve Street. During the reconstruction work, the Malfunction Junction site was temporarily shut down in July 1983 and not reactivated until January 1986. However, monitoring at Malfunction Junction from 1986 to 1992 still showed exceedances of the 8-hour CO standard.

The Department and EPA were concerned that area-wide sources such as residential wood combustion combined with traffic emissions contribute to elevated CO levels at other areas in Missoula. In July 1988, EPA notified the Department that the Missoula CO control plan was substantially inadequate. The Department and Missoula County prepared an emission inventory and submitted it to EPA in December 1989. No comments were received from EPA on the adequacy of this emission inventory.

From August 1981 to March 1991, the MCCHD operated a second CO monitor at the Boyd Park site which is located approximately 0.6 mile south of the Malfunction Junction site in a residential neighborhood. MCCHD suspected most CO emissions measured at Boyd Park were from residential wood combustion although motor vehicles may also have contributed some CO emissions. In May 1991, the Department submitted a request to EPA to permanently shut down Boyd Park. The site had not measured an 8-hour CO exceedance since 1987 and Boyd Park is located within the same general area as the maximum concentration site at Malfunction.

In a letter dated August 8, 1991, EPA denied the Department's request to permanently shut down the CO monitor at Boyd Park. EPA requested additional documentation justifying Malfunction Junction as the maximum CO location and supporting the claim that a second CO monitoring site in Missoula was not

necessary. Based on the Department's original submittal, EPA was not convinced the one site at Malfunction Junction could adequately address all contributing sources (mobile, point or area) to the Missoula CO problem. In a letter dated September 16, 1991, the Department provided EPA with additional justification, and in their reply letter dated October 4, 1991, EPA agreed to the Boyd Park shut down request.

In November 1991, due to the Clean Air Act Amendments of 1990, Missoula was further classified as a "moderate" CO nonattainment area. "Moderate" areas are those that have a CO design value between 9.1 and 16.4 ppm for an 8-hour average. The moderate nonattainment area provisions also required implementation of an oxygenated fuels program which was implemented on October 1, 1992. The Department revised the Missoula CO control plan to incorporate the requirements for an oxygenated fuels program and, on November 6, 1992, submitted the revised plan to EPA.

During December 1992, the Department and MCCHD conducted a CO saturation study in Missoula. The final report was submitted to EPA on April 20, 1993. EPA's response, in a letter dated May 24, 1993, states, "We agree, the study confirms the Malfunction Junction intersection has the highest carbon monoxide levels in the Missoula area and the existing monitoring station know as "Malfunction Junction" is the maximum concentration monitoring station."

In July of 1995, EPA received the CO emission inventory which was based on data from calendar year 1990. In March 2000, MCCHD finished compiling the reasonable further progress (RFP) emission inventories for calendar years 1993 and 1996. As part of the resignation process, the Missoula CO Maintenance plan was heard publicly on April 22, 2005, and the Governor submitted the redesignation plan to EPA on May 27, 2005.

The Department and MCCHD have no plans for a second CO monitoring site in Missoula. As established within the maintenance plan upon the Malfunction Junction only operated first and fourth calendar quarters for maintenance purposes and was offline second and third calendar quarters. No measured exceedance in Missoula was observed after the implementation of the oxygenated fuels program in October 1992. As a result of no additional exceedances of the short-term NAAQS and steadily declining CO values, the Department and MCCHD terminated CO monitoring in Missoula during 2010.

#### 2.1.5 NITROGEN DIOXIDE

#### **Missoula County**

The Missoula metropolitan statistical area serves as a business, service, and shopping center for much of western Montana and a portion of east-central Idaho. The City of Missoula is situated at the confluence of the Bitterroot and Clark Fork Rivers at the eastern edge of the Missoula Valley. The Missoula Valley is narrow, approximately 6 miles across and effectively isolated from the larger Bitterroot Valley to the south. The valley is susceptible to temperature inversions in the fall and winter months and wind speeds are normally low throughout the year.

Historically, the main industrial source of nitrogen dioxide emissions was the Smurfit-Stone Container (Stone) kraft pulp mill near Frenchtown. In May 1987, the company received a PSD permit to burn petroleum coke in their four lime kilns but only one lime kiln was converted to burn coke. As a permit condition, Stone was required to operate one NO<sub>2</sub> monitoring site near their facility. The data collected and submitted to the Department revealed very low concentrations with no violations of the historical NAAQS or MAAQS. Stone submitted a request to discontinue monitoring, the Department agreed and on June 1, 1992, the ambient NO<sub>2</sub> monitoring was discontinued due to the low concentrations.

In 1999, Louisiana Pacific (L-P, now Roseburg Forest Products) proposed changes at their particleboard facility in Missoula, which would have increased NO<sub>2</sub> emissions above PSD permitting thresholds. That proposal, along with a related enforcement action, resulted in L-P monitoring for NO<sub>2</sub> and ozone in the Frenchtown area at the western end of the Missoula Valley. The ozone and NO<sub>2</sub> monitoring started January 2001 and continued through 2002. The data for both pollutants indicated low concentrations, well below the NAAQS and MAAQS in effect at that time.

# 2.1.6 OZONE

#### **Flathead County**

The National Park Service currently monitors for ozone in Glacier National Park (GNP) at a site near West Glacier (30-029-8001). The ozone monitor initially operated from April 1989 to December 1992. Ozone monitoring resumed in March 1995 and has continued through the present. No exceedances of the MAAQS or NAAQS have been recorded to date and the concentrations are relatively low.

#### **Missoula County**

The Department conducted ozone monitoring at the Lions Park monitoring site (30-063-0019) in Missoula from 1978 – 1979 as part of the MAPS. No exceedances of the MAAQS or historical NAAQS were recorded at that time.

In 1999, Louisiana Pacific (L-P, now Roseburg Forest Products) proposed changes at their particleboard facility in Missoula, which would have increased NO<sub>2</sub> emissions above PSD permitting thresholds. That proposal, along with a related enforcement action, resulted in L-P monitoring for NO<sub>2</sub> and ozone in the Frenchtown area at the western end of the Missoula Valley. The ozone and NO<sub>2</sub> monitoring started January 2001 and continued through 2002. The data for both pollutants indicated low concentrations, well below the NAAQS/MAAQS in effect at that time.

Historically, there has been a small amount of ozone onitoring conducted in northwestern Montana, basically only in the Missoula area and GNP. Over the years,  $O_3$  has been monitored at three locations; those sites, their AQS codes, years of operation, and their highest annual, 4<sup>th</sup> max, 8-hour  $O_3$  average, are listed below:

- Lions Park Missoula (30-111-0052), 1978-79 (0.050 ppm)
- GNP (30-029-8001), 1989-2009 (0.061 ppm)
- Main Street Frenchtown (30-063-0036), 2001-02 (0.057 ppm)

The old ozone monitors and the QA/QC requirements in place during the 1970s and early 1980s are now considered inadequate so the quality of that old monitoring data is very suspect.

Current ozone monitoring in Missoula County is limited to the Boyd Park station (30-063-0024) which was initiated on June 1, 2010. Observed values are generally low as compared to monitored ozone values from other sites in Montana.

# 2.1.7 OTHER AIR POLLUTANTS

## **Flathead County**

For many years, fluoride, a non-criteria air pollutant, was of significant concern around Columbia Falls and Glacier National Park in Flathead County. The Columbia Falls Aluminum Company (CFAC) operated a primary aluminum smelter just north of Columbia Falls and the facility emitted fluoride both in gaseous form and attached to particulate matter. The PM fluoride was deposited on vegetation in the surrounding area which was then eaten by livestock resulting in bone and teeth loss, especially in cattle. Montana has a state ambient air quality standard for fluoride in forage and in the Columbia Falls area that standard was routinely challenged. From 1985 through 2007, CFAC, with oversight by the Department, operated 3 monitoring sites for fluoride in forage in the Columbia Falls vicinity. The ambient monitoring for fluoride in forage ended in 2007 although the aluminum smelter did not shut down until late in 2009.

## Missoula County

The Department and MCCHD conducted a formaldehyde screening study during the winter of 1993-94 and the results indicated low concentrations. Another screening study was conducted from January through December 1997. The 1997 study also reported low concentrations with aldehyde levels the highest under stagnant wintertime conditions. However, some of the data did exceed guideline values established by other states.

During 2000-2001, a local CMB source apportionment study investigated the relationship between VOCs, SVOCs, and PM<sub>2.5</sub> concentrations in the Missoula Valley airshed. The following chemical analyses were conducted:

- anions and cations,
- elemental, organic and elemental carbon, and
- polycyclic aromatic hydrocarbons (PAH).

The final report concluded there was a clear difference in the effects of automobile emissions between the urban and rural parts of the valley.

# 2.1.8 METEOROLOGY

The Department has conducted meteorological monitoring at many sites in northwest Montana to provide context to the pollution data collected by the other ambient monitors. During the 1977 to 1982 period, the Department operated a network of meteorological sensors as a part of the Flathead River Basin EIS study. The equipment included: wind speed and direction sensors, temperature sensors, solar radiation sensors, acoustic sounders, and temperature-sonde equipped pilot balloons. Reports from this study documented the extent of the stagnation issues in the valleys of western Montana. In general, these areas see prolonged periods of calm winds, and persistent (over several days) wintertime inversions with very low mixing heights during the late fall and winter months. Wind flow patterns are heavily influenced by terrain year-round with the vast majority of wind directions oriented up and down valley.

The Department still operates meteorological sensors at some of the continuous monitoring sites in this region, but the data is not being processed for submittal to the AQS data base. In northwestern Montana, 'real time' and archived meteorological data is available from Automated Surface Observing System (ASOS) monitors

operated by NOAA and the FAA in the communities of Kalispell, Thompson Falls, Plains, Ronan, Missoula and Thompson Falls.

# 2.2 SOUTHWESTERN MONTANA

# 2.2.0 REGIONAL DESCRIPTION

The Southwestern region covers the following 12 counties: Lewis and Clark, Meagher, Broadwater, Park, Gallatin, Madison, Beaverhead, Silver Bow, Deer Lodge, Granite, Powell, and Jefferson. Those 12 counties straddle the Continental Divide and cover an area of approximately 28,747 square land miles (19.7% of the state).

The southwestern portion of this region is bordered by the State of Idaho. Yellowstone National Park and the State of Wyoming form the border to the extreme south-eastern corner. The southern portion of the region includes the northeastern corner of Yellowstone National Park. Like the northwestern region, much of the land is owned by the federal government, predominantly the Forest Service and the Bureau of Land Management. The entire region is located within the Rocky Mountains and is characterized by steep timbered mountains and mountain valleys, some of which are very small. Tributaries for the Missouri, Clark Fork and Yellowstone Rivers have their beginnings in this area. The region's climate is characterized as semi-arid with cold, dry winters, cool, moist springs, and warm, dry summers.

Major population centers in this region include three micropolitan statistical areas consititing of Butte, Helena, and Bozeman. The other communities in this region with populations greater than 5,000 are Anaconda-Deer Lodge and Livingston.

Similar to the northwest region, due to topography and federal land ownership, much of the population is concentrated in a relatively small number of communities located in the bottom of the mountain valleys. These broad mountain valleys are subject to almost daily temperature inversions which can sometimes be severe and long lasting during the winter months. As a result of those stagnant atmospheric conditions, air pollutants are easily trapped under the inversion layer and their concentrations can increase to unhealthy levels. Many of mountain ranges in this region are highly mineralized which has resulted in much mining and mineral processing activity. The Butte and Bozeman urban areas support the largest amount of industrial activity in the southwest region, mostly related to mineral processing and light manufacturing. Other major economic activities in the region relate to agriculture, government, higher education, service industries, and tourism.

# 2.2.1 PARTICULATE MATTER

# **Beaverhead County**

Beaverhead County has a land area of approximately 5,542 square miles (one of the largest in the U.S.) but a population of less than 10,000. The local air quality concern centers on the Barretts Minerals talc plant located approximately 6 miles south of the county seat of Dillon. The small city of Dillon is located near the center of the Beaverhead Valley. Around Dillon, the elevation of the valley floor is approximately 5400 feet with ~6700 feet tall mountains located approximately ten miles to the west. Even though there are higher mountain ranges nearby, such as the Pioneer, Snow Crest, and Ruby, the Dillon area experiences good atmospheric ventilation.

In September 1984, the Department established a monitoring TSP site at the Beaverhead County Courthouse Annex (30-001-0001) and operated it until June 1986. The data showed relatively low readings and the monitoring was discontinued.

A non-FEM continuous PM<sub>2.5</sub> monitor was installed in Dillon during the summer of 2015 in response to wildfire occurring out of state. Due to the lack of informational fine particulate air quality data in the region, the monitor was left in place, and remains operational.

#### **Broadwater County**

Broadwater County is sparsely populated with the local economic activity dominated by a talc mine, sawmill, and dry land farming of small grains. A significant portion of the local population commutes to work in the state capital, Helena, located approximately 15 miles northwest of the county line. The eastern county boundary is on the crest of the Big Belt Mountains and the Missouri River dissects Broadwater County in a north-south direction. The Canyon Ferry Reservoir on the Missouri River is a dominant physical feature in the county. The area of most air quality concerns in Broadwater County centers on the city of Townsend.

Particulate monitoring in Broadwater county has been limited to industrial monitoring of air quality impacts associated with various mining activities. No formal DEQ initiated particulate monitoring has occurred in Broadwater County.

## **Gallatin County**

The Bozeman micropolitan statistical area serves as a business, service and shopping center for the Gallatin Valley and other nearby locations. The Gallatin Valley is located east of the continental divide and is a fairly large valley (approximately 12 miles wide and 20 miles long). This large area typically allows pollutants to disperse with moderate to fast wind speeds. However, during fall and winter, atmospheric temperature inversions do allow concentrations of particulate matter to increase, especially in and around the urban areas. Two major highways serve the area; U.S. Interstate 90 (an east/west route) and U.S. Highway 191 (a north/south route). The particulate matter areas of most concern in Gallatin County are the communities of Bozeman, Belgrade, and West Yellowstone.

Bozeman lies at the eastern edge of the Gallatin Valley and is home to Montana State University. Bozeman does not have any major industrial air pollution sources but does have problems with traditional area-wide sources such as emissions from paved and unpaved roads, and residential wood combustion. Belgrade lies nine miles west of Bozeman. Belgrade had one large industrial point source, the Louisiana-Pacific sawmill, but it closed in 2003. Today, Belgrade's main particulate emission sources are paved and unpaved roads, and residential wood combustion. West Yellowstone is a tourist destination since it provides one of the main access points to Yellowstone National Park. It addition to motor vehicle emissions (cars, trucks, buses, snowmobiles) there are significant emissions from residential wood combustion.

The Department has monitored for particulate matter in the Bozeman area since 1978 at a variety of sites. The primary site was at the East Main City Building (30-031-0002) since it proved to be the worst-case site in Bozeman over a couple of decades.

In 1985, the Department installed a  $PM_{10}$  monitor at the East Main site and when the  $PM_{10}$  standard was promulgated in 1987, the Department discontinued all Bozeman area TSP monitoring. The Department installed a second  $PM_{10}$  sampler at the East Main site on January 11, 1991. During the next two decades, the population of the Gallatin Valley increased dramatically with more traffic and other human activities. Despite the growth, the  $PM_{10}$  data collected at the East Main site remained below the NAAQS and no trend was discernable. When the roof was rebuilt, the Department closed the monitoring site in mid-year 2002.

During the summer of 2005, the Department installed a new PM<sub>2.5</sub> site at the Bozeman Wastewater Treatment Plant (30-031-0006) near the west end of town. The site was located down-slope from most of Bozeman and the Department anticipated monitoring the effects of down gradient air pollution transport during stagnant conditions. In July 2005, a PM<sub>2.5</sub> BAM was added to provide continuous data for population exposure during summer wildfire events. A few years later the City of Bozeman expanded their wastewater treatment plant and the Department had to remove the air monitoring equipment in October 2008. The PM<sub>2.5</sub> concentrations at the Wastewater Treatment Plant were lower than expected and since the public was lobbying for a new site near the interior of the community, the Department established a replacement site at Bozeman High School (30-031-0019) in February 2009. The High School site is equipped with a PM<sub>2.5</sub> BAM providing continuous data on an hourly basis.

The Department initiated particulate monitoring in Belgrade due to numerous citizen complaints and a public petition for local air quality monitoring. The community began to experience rapid growth in the 1980s due to urban sprawl from nearby Bozeman. At the time in Belgrade, there was a major sawmill with emissions from a wood-fired boiler and dust from the log deck. However, the Department was also concerned about entrained dust from paved and unpaved roads, and smoke from residential wood combustion. A new monitoring site with two PM<sub>10</sub> samplers was installed in an open field behind a grain elevator near the center of the community. The new site was named ConAgra (30-031-0008) and sampling started in October 1991 with collocated sampling beginning in July 1997. The data collected revealed moderately high values with the highest PM<sub>10</sub> concentration (148  $\mu$ g/m<sup>3</sup>) being measured in 1995. Due to decreasing levels and an emphasis on fine particulate matter, PM<sub>10</sub> monitoring at the ConAgra site ended in 2005.

Like the pattern at other  $PM_{10}$  monitoring sites with moderately high concentrations, the Department gradually added PM2.5 samplers. In Belgrade, fine particulate monitoring at the ConAgra site began in January 2000. Over the next decade, the site recorded relatively high PM<sub>2.5</sub> values with annual 98<sup>th</sup> percentile concentrations ranging from the mid-20s to the mid-30s (24-hr averages in  $\mu g/m^3$ ). Due to rapidly increasing real estate values and changing land use patterns, the site owner refused to renew the ConAgra site lease. However, the Department has been allowed to continue monitoring operations at the ConAgra site but essentially only on a week-toweek basis pending the development plans of the property owner. In 2008, the Department began the search for another  $PM_{2.5}$  monitoring site in the Belgrade area. In November 2008, PM<sub>2.5</sub> sampling began at the Wastewater Treatment Plant on the south edge of Belgrade (Lagoon Road 30-031-0018). Comparison of PM2.5 data between the two Belgrade sites indicates significantly higher concentrations near the center of town at the ConAgra site. Throughout monitoring in the Bozeman and Belgrade areas the Bozeman High School monitoring site consistently reported the highest concentrations. Given these ongoing results, the Department chose to discountinue monitoring at the Lagoon Road site and ConAgra sites in 2011.

The small town of West Yellowstone is located in the extreme southern end of Gallatin County and it's a main access point into Yellowstone National Park. In the local area particulate emissions come from entrained dust from city streets, residential wood combustion and motor vehicle exhaust - especially snowmobiles in the winter months. In October 1994, the NPS installed a PM<sub>10</sub> site at the west entrance to Yellowstone National Park and just east of West Yellowstone. The West Entrance site (30-031-0009) was located near a kiosk (ticket booth) and it was rated as micro-scale due to its close proximity to the car, truck, and snowmobile traffic entering the park through the west gate. Consistently low concentrations and

operational issues led to the termination of this PM<sub>10</sub> monitoring site in March 1995. In 1998, another site was added at the park entrance (West Entrance Station, 30-031-0013) and carbon monoxide monitoring started in October of 1998 with the results revealing significant CO levels over the short term due to high levels of snowmobile traffic. Because NPS personnel were also concerned about the fine particle emissions from snowmobiles, a continuous PM<sub>2.5</sub> monitor was added to the CO site during the fall of 2003. In 2008, the NPS relocated their entire west entrance operations further east into the interior of the park. As a result, the West Entrance Station (30-031-0013) was closed in April and the monitoring site was moved east with the NPS entrance station. The new NPS site is referred to as West Yellowstone Park Entrance (30-031-0017) and continuous CO and PM2.5 monitoring began later in 2008. Monitoring continues to date and except for increased levels during forest fires, the concentrations of CO and PM2.5 remained low. The National Park Service took over operation of the site in 2016. The West Yellowstone Park entrance monitoring station remains in operation, however, as of July 31, 2015, the DEQ no longer is affiliated with operation of the site. DEQ maintains ownership of the shelter and the monitoring instrumentation, and NPS operates the site under a Memorandum of Understanding. This site remains, principally to monitor traffic impacts to this significant Class 1 area, particularly in the wintertime.

In 1995, the Department installed a PM<sub>10</sub> monitoring site in a vacant lot near the intersection of Firehole Avenue and Dun Raven Street, and the Firehole site (30-031-0012) began operating in November. Over the next decade, the data was only slightly elevated with annual means averaged around 20  $\mu$ g/m<sup>3</sup> and maximum 24-hour concentrations in the no higher than 78  $\mu$ g/m<sup>3</sup> in 2000, and as a result the Firehole PM<sub>10</sub> site was shutdown in 2006.

The Department remained concerned about the potential for elevated fine particle concentrations in the town of West Yellowstone due to the local emission sources. In addition, NPS personnel were speculating about the local community's effects on the air pollution levels being monitored at their west entrance site. As a result, the Department and the NPS agreed to jointly operate a new CO/PM<sub>2.5</sub> monitoring site in the center of West Yellowstone. The NPS agreed to pay for the site equipment and operational costs and the Department supplies monitoring and data processing services. The new site (City Center, 30-031-0016) was constructed during the second half of 2006 and operations began in January 2007. Initially, the PM<sub>2.5</sub> monitoring was conducted with manual samplers but in July 2008 it was switched over to a continuous FEM BAM monitor. Results were demonstrated to be lower than expected and monitoring was discontinued in June of 2011. The West Yellowstone Park Entrance site (30-031-0017) remains the only monitoring station in the West Yellowstone area.

#### **Jefferson County**

Jefferson County is immediately adjacent to and considered part of the Helena Micropolitan Statistical Area and is located in the extreme southern end of Lewis & Clark County. The northern end of Jefferson County serves as a bedroom community for people commuting to/from Helena. The northern part of Jefferson County includes the unincorporated communities of Montana City and Clancy as well as several large subdivisions. These population centers are located along the Prickly Pear Creek drainage with the Continental Divide range located to the west and the Elkhorn Mountain range located to the east. The terrain tends to funnel the airflow on a north-south axis into and out of the Helena Valley but the area does experience stagnant atmospheric conditions due to temperature inversions and calm winds. The Department operated a TSP sampler at the Montana City School for several years and considered installing a PM<sub>10</sub> monitor but the resources never materialized. The only other particulate monitoring was for  $PM_{10}$  and it was conducted by private companies near several open pit mine operations

#### Lewis & Clark County

The Helena micropolitan statistical area serves as a business, service, and shopping center for the tri-county region of Broadwater, Jefferson and Lewis & Clark Counties. The most serious particulate problem in Lewis & Clark County is found in the Helena Valley, which includes the city of Helena and the town of East Helena. These two communities are situated in the extreme southern end of Lewis & Clark County and adjacent to the population centers in the extreme northern end of Jefferson County. The Helena Valley is relatively large (approximately 16 miles by 16 miles), lies east of the Continental Divide, and is surrounded by mountains on all sides. The predominant wind direction is from the northwest through southwest but diurnal temperature inversions are common and may last for several days. Since 1957 there has been some type of particulate monitoring conducted in Lewis & Clark County with early sampling done with TSP HiVol samplers.

In Helena, the main monitoring site was at the Department's office location in the Cogswell Building (30-049-0001) where particulate samplers were operated on the rooftop for many years. The monitoring was initially conducted for TSP and then switched over to  $PM_{10}$  starting in 1985, which ended in September 1997 due to low concentrations and an emphasis on fine particulate monitoring at other sites in the Helena area. There were other sites in Helena, many which were relatively short-lived and associated with Lewis & Clark County's wood stove curtailment program.

In 1991, the Department added the Lewis & Clark County Health Department's Lincoln School (30-049-0018)  $PM_{10}$  site to its SLAMS network. In addition to the HiVol  $PM_{10}$  data collected at Lincoln School, visibility data was generated by a nephelometer which operated from December 1988 to March 1993. The county air program correlated the visibility data with the reference method  $PM_{10}$  data during the winter months, and then used the real-time nephelometer data to call alerts for their episodic control program for residential wood combustion. In October 1993, the nephelometer was replaced with a continuous TEOM  $PM_{10}$  monitor.

In January 1999, PM<sub>2.5</sub> monitoring with manual samplers was added to the Lincoln School site. In January 2006, the TEOM was replaced with continuous BAM PM<sub>10</sub> monitor. PM<sub>10</sub> monitoring continued until December 2006 when all PM<sub>10</sub> samplers where removed from the Lincoln School site leaving only the PM<sub>2.5</sub> monitors. In January 2007, a PM<sub>2.5</sub> BAM monitor was added to the site. The continuous PM<sub>2.5</sub> data from the BAM was correlated with the PM<sub>2.5</sub> data from the manual samplers at the site. In July 2008, the original PM<sub>2.5</sub> BAM was replaced with a new upgraded FEM PM<sub>2.5</sub> BAM which operated until the site was shutdown in July 2009. The Lincoln School site ended because an analysis of the PM<sub>2.5</sub> data from that site and a newer site in the Helena Valley (Rossiter School) indicated no statistical difference between the two sites. Due to population growth and development issues in the Helena Valley, the decision was made to consolidate PM monitoring operations at the Rossiter School site.

In November 1996, a new monitoring site at Rossiter School (30-049-0024) began generating  $PM_{10}$  data. This site was created to track the effects of population growth and residential development in this part of the Helena Valley. Rossiter School is located approximately 3.8 miles north of Lincoln School near the lowest part of the Helena Valley. Rossiter School is approximately 225 feet lower in elevation than Lincoln School which is located in the elevated terrain of uptown Helena. In January 2003, the  $PM_{10}$  monitor was moved from the Rossiter School roof to a new site named Rossiter Pump House (30-049-0026) on the edge of the school's athletic

fields. At this new site,  $PM_{10}$  monitoring ended in December 2006, and  $PM_{2.5}$  monitoring with manual samplers began in January 2007. As discussed above, the fine particle data from the Lincoln School and Rossiter Pump House sites was analyzed and the Department and Lewis & Clark County agreed to consolidate all fine PM monitoring at the Rossiter Pump House site. In the summer of 2009, the Lincoln School monitoring shelter and the FEM  $PM_{2.5}$  BAM were moved to Rossiter and continuous  $PM_{2.5}$  monitoring started in August 2009. An FRM filter-based collocation was installed to satisfy quality assurance requirements. In January 2016, the FEM BAM which served a the conintuous quality assurance co-location instrument was relocated from the Boyd-Park station in Missoula to the Helena-Rossiter site. The Rossiter School site remains the sole monitoring station in Helena.

Revisions to 40 CFR 58 required that each state operate at least one station as part of the National Multipollutant Core (NCore) Monitoring Network, with each NCore site consisting of instruments which measure PM<sub>2.5</sub>, PM<sub>10-2.5</sub> (Coarse), designated contituents of speciated PM<sub>2.5</sub>, O<sub>3</sub>, SO<sub>2</sub>, CO, NO, NO<sub>Y</sub>, and meteorology. Montana's NCore site (Sieben's Flat 30-049-0004) was installed in late 2010 and fully operational January 1, 2011. The majority of NCore sites across the nation are established in urban areas. In Montana however, the NCore site was established as a long-term trend background site in an area believed to be relatively pristine and unimpacted by anthropogenic sources.

A considerable amount of particulate sampling was also been conducted in the East Helena area. Most of this particulate sampling was been conducted in connection with lead analyses around the former ASARCO primary lead smelter. The earliest TSP and Pb monitoring in East Helena (defined as data submitted to EPA's national database) occurred in 1972. Please refer to Section 2.2.3 for a more complete discussion of TSP and Pb monitoring in East Helena.

The small town of Lincoln is located approximately 40 air miles northwest of Helena on the west side of the Continental Divide. Lincoln is situated in the forested Blackfoot River Valley surrounded by mountainous terrain with limited air dispersion and numerous open burning and residential wood burning sources. The Lincoln area typically experiences numerous inversions during the winter months. In September 1997, the Department established a PM<sub>10</sub> monitoring site in town at the Lincoln 1<sup>st</sup> Bank (30-04 -0025) and a maximum 24-hour PM<sub>10</sub> concentration of 130 µg/m<sup>3</sup> was measured in 1999. The highest  $PM_{10}$  levels were measured during the winter months suggesting emissions from open burning and residential wood combustion as the most likely sources. In June 2001, PM<sub>2.5</sub> sampling began at the First Bank site and a comparison with the PM<sub>10</sub> data during 2002 indicated the majority of the PM<sub>10</sub> was actually PM<sub>2.5</sub>. Since the 1<sup>st</sup> Bank site did not fully comply with EPA requirements, it was terminated in December 2002, and a new PM<sub>2.5</sub> site was established at the Parker Clinic on the west end of Lincoln along US Highway 200 (30-049-0019). The PM<sub>2.5</sub> results from the US 200 site were surprisingly low with annual PM<sub>2.5</sub> means in the 5-6 µg/m<sup>3</sup> range. Since monitoring resources were needed in other locations, the US 200 PM<sub>2.5</sub> site in Lincoln was shutdown in April 2005.

#### Silver Bow County

The Butte micropolitan statistical area lies in the Summit Valley at an elevation of approximately 5,550 feet with elevations over 8,500 feet in the adjacent mountains. The Summit Valley is surrounded on three sides by the peaks of the Rocky Mountains on the west side of the Continental Divide with the only geographic opening lying to the northwest. Like other communities in western Montana, wind speeds in Butte are usually low and the area is susceptible to temperature inversions, especially during in the winter months. The older portion of uptown Butte and Walkerville are built on the hillside near the historical copper mining district, while the newer parts of Butte are located below on the valley floor to the south. The historical nickname for the Butte area is "The Richest Hill on Earth" and since the early 1870s, the almost continuous mining (at first underground, then open pit) of minerals (gold, silver, copper and molybdenum) has dominated all facets of the local area.

The monitoring of particulate matter has been conducted in Butte since 1962. In 1978-80, the Department conducted TSP monitoring in Butte as part of the Montana Air Pollution Study (MAPS) with five sites in Butte. The results of MAPS showed the highest PM concentrations occurred at sites near the center of Butte, and the specifically identified the site at Greeley School (30-093-0005) as having the highest TSP concentrations. As a result, the Department decreased its PM monitoring network in Butte to this single site in 1984. The 1977 Clean Act Amendments resulted in Butte being designated nonattainment for TSP at 43 FR 8962 on March 3, 1978. EPA issued conditional approval of the Butte TSP plan at 45 FR 14036 on March 4, 1980.

In September 1987, daily  $PM_{10}$  sampling was initiated at the Greeley School site and almost immediately exceedances of the 24-hour  $PM_{10}$  NAAQS were measured. As a result, during the winter of 1987-88, the Department conducted a local source apportionment study where the sources of particulate were identified through a combination of CMB and optical microscopy.

In 1990, Butte was designated as a moderate  $PM_{10}$  nonattainment area. The Department developed a  $PM_{10}$  control plan which was submitted to the EPA in November 1991. The control strategies included controls on residential wood combustion, paved and unpaved roads, and new operating permits for area mining activities.

As part of the control plan, a local  $PM_{10}$  emission inventory was developed which identified an additional "hot spot" of  $PM_{10}$  emissions in a residential area near the intersection of Harrison Avenue and Interstate 90. EPA approved the Butte  $PM_{10}$  control plan on March 11, 1994.

In January 1991, the Department established the Greenhouse site (30-093-0008) at a location near the Harrison Avenue-Interstate 90 intersection to address the "hot spot maximum grid" issue identified in the emission inventory for 1991 control plan. However, after two years of operation, the  $PM_{10}$  concentrations measured at the Greenhouse site were consistently less than those at Greeley School and as a result, the Greenhouse site was shutdown in June 1992.

As part of the Butte-Silver Bow County Health Department's (BSBHD) episodic control plan for their wood burning control program, a nephelometer was operated at the Greeley School site from July 1989 to March 1993. The visibility data from the nephelometer was correlated with the PM<sub>10</sub> data from the reference method samplers and the nephelometer data was used by BSBHD to call air pollution alerts. In August 1993, the nephelometer was replaced with a continuous  $PM_{10}$  TEOM with the TEOM data serving the same purpose in the episodic control plan. In 1997, PM<sub>10</sub> monitoring with manual samplers was discontinued. PM<sub>2.5</sub> monitoring with manual samplers began at Greeley School in February 1999. The TEOM was replaced with a PM<sub>10</sub> BAM in January 2006. In October 2008, PM<sub>2.5</sub> speciation sampling began at the Front Street site as part of EPA's national trend Chemical Speciation Network. In April 2009, the PM<sub>2.5</sub> BAM sampler from the Butte – Front Street site was relocated and continuous PM<sub>2.5</sub> monitoring began at the Greeley School site. In March 2010, the old PM<sub>2.5</sub> BAM sampler at Greeley School was replaced by a new FEM PM<sub>2.5</sub> BAM sampler capable of producing data for PM2.5 NAAQS compliance purposes and for use in BSBHD's episodic control plan for residential woodstove curtailment.
In November 2007, the Department installed a new monitoring site, Front Street (30-093-0009), near the BSBHD offices and operated a continuous PM<sub>2.5</sub> BAM to compare ambient concentrations with the PM<sub>2.5</sub> monitors at the Greeley School site and to provide data for BSBHD's episodic plan for their wood burning control program. Later the PM<sub>2.5</sub> BAM data from Front Street was compared with data from portable MetOne PM<sub>2.5</sub> E-BAM samplers in other parts of the community. The e-BAM saturation study clearly revealed the highest 24-hour PM<sub>2.5</sub> concentrations were occurring at the Greeley School site. So, as a result of this saturation study, the Front Street site was shutdown in April 2009 and the PM<sub>2.5</sub> BAM sampler was relocated to Greeley School. The Butte-Greeley School site is the sole monitoring station representing the greater Butte area.

### 2.2.2 SULFUR DIOXIDE

### Lewis & Clark and Jefferson Counties

The Helena Valley is relatively wide (approximately 16 miles by 16 miles) and lies just east of the Continental Divide. The valley's elevation is approximately 4,000 feet and it is surrounded by mountains with elevations of over 9,000 feet. As a result, the Helena Valley experiences significant temperature inversions in the fall and winter months. The town of East Helena is located in the southwestern corner of the valley at the extreme southern border of Lewis & Clark County and adjacent to Jefferson County. The local predominant wind directions are from the northwest through southwest. For over 100 years, the ASARCO primary lead smelter in East Helena was a major source of SO<sub>2</sub> emissions until the smelter was shutdown on April 4, 2001.

Monitoring by ASARCO in the early 1970s revealed exceedances of the SO<sub>2</sub> NAAQS in the East Helena area. In 1975, the Montana SIP was revised to require controls on SO<sub>2</sub> sources at ASARCO which would limit sinter plant emissions and result in a 75 percent SO<sub>2</sub> reduction on an annual basis. As a result, ASARCO installed a double contact acid plant and modified several stacks in 1977. In March 1978, the East Helena area was designated nonattainment for SO<sub>2</sub>. In 1978 and again in 1980, field tracer studies determined what constituted good engineering practice (GEP) stack height for a proposed taller stack. These proposed changes were submitted as part of the East Helena SO<sub>2</sub> control plan. In 1982, ASARCO built a taller stack for the blast furnace bachouse and it dispersed the emissions over a wider area and dramatically reduced the frequency of high SO<sub>2</sub> concentrations which had occurred relatively close to the facility at ground level. From 1974-1982, the Department operated three SO<sub>2</sub> sites adjacent to three of ASARCO's six SO<sub>2</sub> sites. After construction of the acid plant and the taller blast furnace baghouse stack, the ambient concentrations of SO<sub>2</sub> dropped dramatically and the Department's SO<sub>2</sub> sites were shutdown.

In April 1991, EPA notified the Department of insufficiencies in their East Helena SO<sub>2</sub> control plan and demanded submission of a revised plan by May 1992. According to EPA, the revised plan was required by Federal Clean Air Act Amendments of 1990 and an inadequate GEP stack height analysis. In 1992, dispersion modeling was performed as part of the SIP revisions and the modeling results predicted high ambient SO<sub>2</sub> levels in the nearby elevated terrain to the south in Jefferson County. As a result, the ambient SO<sub>2</sub> monitoring network was significantly expanded to 13 sites in the spring of 1993. Working with the Department, ASARCO developed a series of SOPs and a QA plan for their SO<sub>2</sub> monitoring network, and EPA approved the QA plan on February 23, 1993. On June 30, 1997, monitoring was discontinued

on eight of the thirteen  $SO_2$  sites. The five sites remaining in the ASARCO  $SO_2$  monitoring network were:

- Microwave (30-043-0903),
- Water Tank (30-049-0702),
- Kennedy Park (30-049-0703),
- McClellan Creek Road #4 (30-043-0911)
- McClellan Creek Road #6 (30-043-0913)

EPA approved this reconfigured network as adequate to show attainment and maintenance of the NAAQS and MAAQS for SO<sub>2</sub>. On January 28, 1995, EPA approved the revisions to the East Helena SO<sub>2</sub> control plan for the annual and 24-hour primary NAAQS; however, the plan did not demonstrate attainment of the secondary SO<sub>2</sub> NAAQS. The Department was revising the East Helena SO<sub>2</sub> control plan for the 3-hour secondary standard when ASARCO suspended smelter operations for an "indeterminate" period in April 2001. Ambient SO<sub>2</sub> monitoring ended shortly after the smelter ceased operations since the closure reduced SO<sub>2</sub> emissions from 11,012 tons in 1999 to 14 tons in 2002 in the local area. The only reason local point source SO<sub>2</sub> emissions haven't fallen to zero is because a local Portland cement plant burns coal and coke in their kiln. Since 2001, ASARCO has gone through bankruptcy proceedings and the majority of the buildings and structures, including the stacks, at the former smelter have been demolished.

The East Helena  $SO_2$  area was residnated to attainment (84 FR 34102) with a limited maintenance plan, effective October 11, 2019.

### 2.2.3 LEAD

### **Deer Lodge County**

During the MAPS study and later, the Department and ARCO Coal operated approximately 9 different lead monitoring sites in the Anaconda area from the late 1970s to the late 1980s. Although some of the samples recorded elevated concentrations, the Anaconda area remained in compliance with the lead NAAQS. No active lead monitoring sites are currently in operation.

#### **Gallatin County**

In 1978 during the MAPS study, the Department operated one lead monitoring site at Traphagen Hall on the campus of Montana State University in Bozeman and the site was compliant with the lead NAAQS. No active lead monitoring sites are currently in operation.

#### Lewis & Clark and Jefferson Counties

Historically, lead has been a pollutant of concern in the East Helena area due to emissions from ASARCO's primary lead smelter. In 1978, EPA promulgated the lead NAAQS and based on ambient air monitoring data, the East Helena area was found in violation of the new NAAQS. The Department conducted extensive studies in the early 1980s to determine the different sources of the lead being sampled by the TSP HiVols and the results identified entrained road dust, soil, fugitive ore concentrates, zinc oxide material, and blast furnace upsets as the primary contributors. Using the results of the source apportionment studies and other information, the Department developed a lead control plan and EPA approved the East Helena Lead SIP on July 9, 1984. As of December 31, 1986, all the control strategies in the initial plan had been implemented but the ambient air data for 1987 and 1988 indicated the lead concentrations remained above the NAAQS. As a result, in October 1988, EPA declared the East Helena lead SIP inadequate.

For the next several years starting in 1990, the Department, ASARCO, and a minor lead emissions source, the American Chemet Corporation, operated ambient monitors, inventoried estimated lead emissions, conducted source apportionment studies, collected meteorological data, and ran computer dispersion models all in an attempt to develop a new and revised lead control plan.

On August 2, 1993, EPA issued a finding that Montana had failed to submit a revised lead control plan by EPA's deadline of July 6, 1993. Therefore, EPA announced that sanctions would be imposed starting on February 2, 1995, unless a revised SIP was submitted by the Department and determined to be complete by EPA before the February 2, 1995, deadline. However, the Department failed to meet the deadline and on February 2, 1995, EPA imposed a requirement of 2-to-1 offset of lead emissions in the East Helena nonattainment area. In August 1995, the Department submitted a revised lead control plan to EPA and another revision in July 1996. EPA partially approved/disapproved the lead SIP at 66 FR 32760 on June 18, 2001.

The Department and ASARCO have operated at least 15 different lead monitoring sites in the Helena and East Helena areas over period of four decades. As a result of the numerous studies and analyses conducted over the years, the East Helena TSP/lead monitoring network in December 2000 had been reduced to just two sites: Prickly Pear (30-049-0727) and Old Railroad (30-049-0726). The Prickly Pear site was located directly north of the ASARCO smelter and across US Highway 12 near the spot where Pacific Street dead ends on the west bank of Prickly Pear Creek. The Prickly Pear site was located as close as possible, given the physical constraints imposed by the local highways and railroad tracks, to the location predicted by computer modeled as being the maximum concentration site in East Helena. The Old Railroad site was located just east of the smelter, directly downwind of the smelter under the most predominant wind directions. On April 4, 2001, ASARCO suspended smelting operations and the lead concentrations in the ambient air of East Helena dropped dramatically. Since the monitoring data clearly showed compliance with the lead NAAQS in existence at that time, the Department believed ambient monitoring was no longer warranted and the last two sites were shutdown at the end of 2001. A summary of the East Helena lead monitoring results from the 1999-2001 time period is displayed by Figure D-12 in Appendix D.

During the 1989-1991 time period, lead monitoring sites were operated by two mining companies at their open pit precious metals mines in Jefferson County. There were two sites at the Golden Sunlight mine near Whitehall, and three sites at the Montana Tunnels mine near Jefferson City. The lead data from all the sites indicated compliance with the lead NAAQS.

### Silver Bow County

During the MAPS study and for several years later, the Department, the Anaconda Copper Company, and Montana Resources operated approximately 17 different lead monitoring sites in Butte from the late 1970s to the early 1990s. Although some of the samples recorded elevated concentrations, no exceedance of the NAAQS was measured, and the Butte area remained in compliance with the lead NAAQS.

### 2.2.4 CARBON MONOXIDE

#### **Gallatin County**

The town of West Yellowstone is located in southern Gallatin County at the west entrance to Yellowstone National Park (YNP). In recent years, the west entrance has accounted for approximately four million visitors to YNP on an annual basis. West Yellowstone, at an elevation of 6,666 feet, is located in a circular topographic depression known as a caldera. The west entrance to YNP and the associated highway corridor are relatively flat and closely bordered by mature lodgepole pine trees.

In 1998, the Department installed a special purpose CO monitoring site, rated as micro-scale, on the northeast side of the ticket booth at the west entrance to YNP. The site was named the West Entrance Station (30-031-0013) and monitoring started in October with an emphasis at the time on snowmobile emissions during the winter months. During the winter of 1998-1999, the results revealed elevated short-term CO concentrations due to high levels of snowmobile traffic.

Over the next decade, NPS administrative rules forced dramatic reductions in the number of snowmobiles allowed into the park, and the type of engines (two-cycle to four-cycle) that could be used in snowmobiles entering the park. Taken together, these changes resulted in a large reduction in both CO emissions from snowmobiles and the corresponding concentrations measured in the air at the West Entrance Station site. In 2008, the NPS relocated their entire west entrance operations further east into the interior of the park. As a result, the West Entrance Station site was closed in April 2008 and the monitoring site was moved east along with the NPS entrance station. The new NPS site was named West Yellowstone Park Entrance (30-031-0017) and CO monitoring resumed in August 2008. Monitoring continues to date and, except for increased levels during forest fires, the CO concentrations remain low.

### **Silver Bow County**

During the Montana Air Pollution Study, the Department operated two multi-pollutant monitoring sites in Butte which collected CO data. One was the Hebgen Park #2 site (30-093-0018) where CO was intermittently monitored from 1978-1979. During that two-year span, the highest 8-hour concentration measured was 7.8 ppm. The second site was Alpine West (30-093-0015) where CO was intermittently monitored from 1977-1979. During that three-year span, the highest 8-hour concentration measured was 8.4 ppm. Almost a decade later, a SPM site for CO was operated near the main entrance to the Berkeley Pit on Continental Drive and within a few blocks of the Department's main PM monitoring site at Greeley School. Over the course of operations from 1987-88, the highest 8-hour average measured at the Continental Drive site (30-093-0022) was 9.1 ppm.

In the winter of 1995-96, the Department conducted a two-week CO saturation study in Butte during mid-December. This time period was carefully selected to coincide with the high volumes of motor vehicle traffic common to the Christmas shopping period and with the time of year most likely to experience poor atmospheric dispersion. The study results identified the Harrison Avenue - Interstate 15/90 interchange area as having the highest CO concentrations in Butte. In the summer of 1997, the Department installed a CO monitoring site rated as micro-scale near the intersection of Dewey and Harrison Avenue, and within 200 meters of US Interstate Highway 15/90. The new Storm Sewer site (30-093-0053) began collecting valid data on November 7, 1997. The Department operated this maximum CO concentration site continuously for almost a decade, finally shutting the site down on December 31, 2006. During that time span, the maximum 8-hour average CO value recorded was 6.1 ppm and it was measured in 1998.

### 2.2.5 NITROGEN DIOXIDE

#### Deer Lodge County

The Department monitored for nitrogen dioxide in Anaconda (2014 population estimate = 9,150) during MAPS at the Lincoln School site (30-023-0007) from July 1978 to July 1979. During the MAPS study, the historic Anaconda Copper Company primary copper smelter was still operating on the outskirts of town. For most of its half-century plus life, the Anaconda Smelter was the largest point source of SO<sub>2</sub> emissions on the North American continent and a very large source of NO<sub>2</sub> until it was shutdown in 1981. The Lincoln School site in downtown Anaconda was located approximately 1.8 miles northwest of the smelter. At this site, the highest 1-hour NO<sub>2</sub> concentration measured was 0.300 ppm in March 1979. Since there was not a full year of data collected in either calendar year it was not possible to calculate a valid NO<sub>2</sub> annual average but a review of the historical data suggests the NO<sub>2</sub> NAAQS would not have been exceeded at Lincoln School. Keep in mind the QA/QC requirements in place at that time are now considered inadequate so the quality of that old monitoring data is highly suspect.

### Silver Bow County

The Department monitored for nitrogen dioxide in Butte during MAPS at two sites. A few months of sporadic NO<sub>2</sub> monitoring was conducted at Alpine West (30-093-0015) during the spring and summer of 1977. During that brief time span, the highest 1-hour concentration measured was 0.078 ppm. The Department also monitored for NO<sub>2</sub> at the Hebgen Park #2 site (30-093-0018) from April 1978 to April 1981. During that time, the highest 1-hour concentration measured was 0.200 ppm. The data recovery rates were poor so it was not possible to calculate a valid NO<sub>2</sub> annual average but a review of the historical data suggests the NO<sub>2</sub> NAAQS would not have been exceeded at Hebgen Park #2. Keep in mind the QA/QC requirements in place at that time are now considered inadequate so the quality of that old monitoring data is highly suspect.

## 2.2.6 OZONE

#### Deer Lodge County

In 1979 and the first half of 1980, the Department monitored for ozone in Anaconda during the MAPS study at the Lincoln School site (30-023-0007). A review of the historical data reveals the maximum 1-hour average was 0.082 ppm, suggesting the ozone NAAQS in place at the time would not have been exceeded at Lincoln School.

### **Silver Bow County**

During the MAPS study, the Department monitored for ozone in Butte at two sites. Ozone monitoring was conducted at Alpine West (30-093-0015) during the summer and fall 1977. There were several exceedances of the 1-hour NAAQS recorded at the Alpine West site. The Department also monitored for ozone at the Hebgen Park #2 site (30-093-0018) from May 1978 to April 1981. No exceedances of the NAAQS were recorded at Hebgen Park #2 but the monitoring success was intermittent and the data recovery was poor.

Historically, relatively little  $O_3$  monitoring has been conducted in southwestern Montana and only at three sites in Anaconda and Butte. Those three locations, their AIRS codes, years of operation, and their highest annual,  $4^{th}$  max 8-hour O<sub>3</sub> average, are listed below:

- Lincoln School Anaconda (30-023-0007), 1979-80 (0.060 ppm)
- Alpine West Butte (30-093-0015), 1977 (0.118 ppm)
- Hebgen Park #2 Butte (30-093-0018), 1978-81 (0.066 ppm)

Keep in mind the QA/QC requirements in place at that time, and the old ozone monitors, are now considered inadequate, so the quality of the old monitoring data is very highly suspect. Though no additional ozone monitoring has occurred in these areas, current monitoring supports the ascertion that ozone concentrations throughout Montana are relatively homogenous with minor variations occurring regionally or within urban areas. Further these levels tend to represent background concentrations that are well below the NAAQS.

### 2.2.7 OTHER AIR POLLUTANTS

### **Deer Lodge and Silver Bow Counties**

For many years, fluoride, a non-criteria air pollutant, was of significant concern in these two counties. Rhodia operated an elemental phosphorus plant a few miles west of Butte near Ramsay and the facility emitted fluoride both in gaseous form and attached to particulate matter. The PM fluoride was deposited on vegetation in the surrounding area which was then eaten by livestock resulting in bone and teeth loss, and the death of livestock, especially cattle. In Montana, there is a state ambient air quality standard for fluoride in forage and in the Ramsay area that standard was routinely exceeded. From the mid-1980s through the mid-1990s, Rhodia, with oversight by the Department, operated 9 monitoring sites for fluoride in forage in the two-county region. The elemental phosphorus plant was shut down in 1996 and the last data from those sites was collected in 1995.

### 2.2.8 METEOROLOGY

Over the last few decades, the Department only conducted meteorological monitoring at a few sites in southwestern Montana. In part, this was because most of the monitoring sites were only set up for particulate matter on an intermittent sampling schedule. There were only a few sites equipped with continuous gaseous pollutant instruments where MET monitoring would normally have been included. The one exception was the East Helena area which was intensively studied by the Department and ASARCO's contractors during development of the lead and SO<sub>2</sub> control plans. The results from the East Helena studies were very similar to those found during the Flathead River Basin Study (see section 2.1.8). That is, during the late fall and winter months, the Helena Valley is subject to prolonged periods of calm winds and persistent wintertime inversions over several days with very low mixing heights. Wind flow patterns are heavily influenced by terrain year-round. Local nocturnal surface winds are highly variable around the Helena Valley with down slope drainage winds flowing out off narrow gulches and merging in the middle of the valley while winds just 50 meters higher are driven by current synoptic patterns.

In southwestern Montana, 'real time' and archived meteorological data is available from ASOS monitors operated by NOAA and the FAA in the communities of Helena, Butte, Twin Bridges, Dillon, Ennis, Three Forks and Belgrade.

# 2.3 NORTH CENTRAL MONTANA

### 2.3.0 REGIONAL DESCRIPTION

The North Central region covers the following 9 counties: Glacier, Toole, Liberty, Hill, Blaine, Pondera, Chouteau, Teton, and Cascade. Those 9 counties are all located east of the Continental Divide and cover an area of approximately 24,026 square land miles (16.5% of the state).

The western portion of this region is flanked by the Rocky Mountains; the southeastern portion is bound by the Missouri River; and Canada forms the northern boundary. Glacier National Park borders the region in the extreme northwestern corner. Moving west to east through the region, the major geographic features include the foothills of the Rocky Mountains and the glaciated high plains. In the northern portion of the region southeast of Havre there is a pair of small, isolated set of mountains knows as the Bear's Paw and Little Rocky Mountains. In addition to the Missouri, other major rivers are the Milk, Marias, Teton and the Sun, all flowing west to east. The region's climate can be characterized as semiarid with cold, dry winters, cool, moist springs, and warm, dry summers. Major population centers in this region include the metropolitan statistical area of Great Falls and the micropolitan statistical area of Havre. There are no other communities in this region with a population of greater than 5,000. The region also includes the Blackfeet and Rocky Boy's Indian Reservations, and a portion of the Fort Belknap Indian Reservation, home of the Blackfeet, Chippewa-Cree, and the Assiniboine and the Gros Ventre tribes, respectively. Additionally, the Little Shell band of the Chippewa Tribe is a state-recognized tribe that is headquartered in Great Falls but has no designated reservation in Montana.

Except for scattered oil and gas wells, the Great Falls urban area supports the largest amount of industrial activity in the north central region. Major economic activities in the local urban area include, agricultural processing – barley and flour mills, an oil refinery, military installations (Montana Air National Guard and Malmstrom Air Force Base), major medical facilities, light manufacturing and regional shopping centers. Other major economic activities in the region include, farming (both dryland and irrigated crops) and ranching. In the mountainous portion of the region, tourism is an important economic activity.

### 2.3.1 PARTICULATE MATTER

### **Cascade County**

Great Falls is the third largest city in Montana and one of Montana's three MSAs. Great Falls is located at the confluence of the Missouri and Sun Rivers, and topography plays an important part in the local climate. The municipal airport and National Weather Service office are located on a plateau about 200 feet higher than downtown Great Falls, which contributes to marked temperature differences between the two. The Continental Divide to the west, and the Big Belt and Little Belt Ranges to the south are primary factors in producing the frequent wintertime chinook winds in this part of Montana. The prevalence of chinook winds creates a relatively high average wind speed, which promotes good ventilation in the area most of the time.

Particulate monitoring has been conducted in Cascade County since 1971 with the initial monitoring done with HiVol TSP samplers. Over the years, approximately a dozen TSP sites have been operated in Cascade County, the majority of them located within Great Falls and Black Eagle. Along with TSP, other data, such as heavy metals, nitrates and sulfates, was collected off the HiVol samplers. Several of the urban sites had elevated concentrations but most events were due to entrained

road dust or wildfire events. The Great Falls area never violated the TSP NAAQS and the last TSP sampling ended in 1990.

In 1985, PM<sub>10</sub> monitoring started in Great Falls at the Downtown site (30-013-0017) and continued at that site until 1988. During this same time frame, PM<sub>10</sub> was monitored at the Fire Station site (30-013-0009). After reviewing the data, the Department determined Fire Station was the maximum concentration PM<sub>10</sub> site in Great Falls. In July 1988, the Department moved the PM<sub>10</sub> sampler from the Downtown site to the Fire Station site. PM<sub>10</sub> monitoring continued at the Fire Station site through 1997 until all PM<sub>10</sub> monitoring in Great Falls was discontinued due to low concentrations.

In late 1999, a new monitoring site was installed at Great Falls High School (30-013-1026) in a residential neighborhood near the city's center, and  $PM_{2.5}$  monitoring began on January 1, 2000. In 2008, a BAM monitor was added to the CO monitoring shelter at the Overlook Park site (30-013-001) and continuous PM25 sampling began in July. At the end of 2009, the manual  $PM_{2.5}$  monitoring site at Great Falls High was shutdown but  $PM_{2.5}$  sampling continues at Overlook Park.

#### **Hill County**

Hill County has a land area of approximately 2,896 square miles with the largest city being the county seat of Havre, located in the Milk River valley on the eastern side of the county. In Havre, the elevation of the river valley floor is approximately 2500 feet with the ~6,000 feet peaks of the Bears Paw Mountains located approximately 15 miles to the south. The Canadian border lies approximately 35 miles to the north across the glaciated plains.

With Great Falls located 120 miles to the southwest, Havre is a regional agricultural, medical and business trade center for a large portion of north-central Montana. Havre is also home to a large refueling and service center for the Burlington Northern-Santa Fe (BNSF) railroad – one of the largest freight railroads in North America. BNSF's northern, high volume freight line (and the USA's northernmost freight line) runs east-west through downtown Havre.

In 1980, the Department established a monitoring TSP site in downtown Havre at the City Building (30-041-0001) and operated it until mid-1983. The TSP concentrations were relatively low readings and the monitoring was discontinued.

A non-FEM continuous PM<sub>2.5</sub> monitor was installed in downtown Havre during the summer of 2018 in response to wildfire occurring out of state. Due to the lack of informational fine particulate air quality data in the region, the monitor was left in place, and remains operational.

### **Teton County**

As part of a BLM oil and gas development study, the Department operated a background TSP site at the Circle 8 Guest Ranch west of Choteau for a year in 1985. Site was discountined shortly after due to low concentrations.

### 2.3.2 SULFUR DIOXIDE

### **Cascade County**

In Great Falls the primary source of SO<sub>2</sub> emissions is the Montana Refining Company's (MRC) petroleum refinery. In the early 1990s, as the result of dispersion modeling performed in support of MRC's operating permit application, potential high concentrations of SO<sub>2</sub> were identified in the elevated terrain located just east of the refinery. In response to the concerns raised by the dispersion modeling, an ambient air monitoring site at Wire Mill Road (30-013-2000) was established and SO<sub>2</sub> monitoring began on November 14, 1994. MRC submitted a new permit application in 1999 and the required dispersion modeling identified a different "hot spot" located closer to the MRC refinery. As a result, the revised MRC permit required an SO<sub>2</sub> monitoring site at the new maximum impact location predicted by the computer dispersion modeling. A new monitoring site, Race Track (30-013-2001) in Black Eagle, was established and SO<sub>2</sub> monitoring began there on May 4, 2000. To date, there have been no monitored exceedances of the SO<sub>2</sub> standards at the Race Track site but a significant amount of monitoring data has been invalidated due to poor audit results. The site remains in operation.

In 1975, the Cascade City/County Health Department briefly operated a manual SO<sub>2</sub> 'bubbler' at a site known as City-County Hospital (30-013-0007). Manual SO<sub>2</sub> 'bubbler' samplers were also operated from 1972-73 at the Speedway Clubhouse site (30-013-0024), and in 1973 at the River Road & Giant Springs site (30-013-0023). The old SO<sub>2</sub> 'bubblers' only produced a 24-hour average and the data is of little use today. During the MAPS study, the Department operated an SO<sub>2</sub> site at Kiwanis Park (30-013<sub>10</sub>16) from 1979-80. The monitoring did not reveal any high concentrations and Great Falls remained in compliance with the SO<sub>2</sub> NAAQS. As mentioned earlier in this document, the QA/QC requirements in place at that time are now considered inadequate so this old monitoring data is highly suspect.

From 1980 to 1981, SO<sub>2</sub> data was also collected just north of Great Falls as part of the Resource 89-Salem Project conducted by the former Montana Power Company (MPC). This was preliminary monitoring done in preparation for the planned construction of a coal-fired electrical generation plant. The project was abandoned, and the monitoring ended after only 2 years with low concentrations reported.

### **Glacier County** (2014 population estimate = 13,696)

From 1975-77, a manual SO<sub>2</sub> 'bubbler' sampler was operated at a site known as the St. Mary Ranger Station (30-035-0001) in Babb on the east side of Glacier National Park. The monitoring was part of a larger study conducted by EPA's National Exposure Laboratory and the NPS. As mentioned above, the old SO<sub>2</sub> 'bubblers' only produced a 24-hour average and the data is of little use today.

### 2.3.3 LEAD

### **Cascade County**

During the MAPS study from 1978-80, the Department operated a lead monitoring site at Kiwanis Park (30-013-1016) in Great Falls. None of the samples had high concentrations and Great Falls remained in compliance with the lead NAAQS.

### **Glacier County**

During 1975 through 1985, TSP samples were collected at two different sites (30-035-0001 and 30-035-0010) named the St. Mary Ranger Station. Some of those TSP filters were analyzed for lead, other metals, ammonia, sulfates and nitrates. These analyses were sporadic and relatively low in both numbers and concentrations.

From 1980 through 1985, the Department operated a TSP sampler at a site know as Fire Weather Station (30-035-0007) with samples analyzed for lead and cadmium from 1980 through 1982. The concentrations were low as would be expected from a background site on the edge of Glacier National Park.

### 2.3.4 CARBON MONOXIDE

### **Cascade County**

Carbon monoxide monitoring in Great Falls began at the Midas Muffler site (30-013-0015) located at 10<sup>th</sup> Avenue South and 9th Street. This site ran from 1977 until 1979 when a leasing problem forced the State to relocate the monitor about twelve blocks east to the Great Falls Federal site (30-013-0021). This site operated until 1983 when monitoring was moved to the Pardis Clinic site (30-013<sub>10</sub>23). The Pardis site was located one block west and across the street from the original Midas Muffler site. The Department anticipated higher concentrations at this site because it was located at a lower elevation and the traffic volume on this section of 10th Avenue South was higher.

From 1980 to 1981, CO data was also collected just north of Great Falls as part of the Resource 89-Salem Project conducted by the former Montana Power Company. This was preliminary monitoring done in preparation for the planned construction of a coal-fired electrical generation plant. The project was abandoned and the monitoring ended after only 2 years with low concentrations reported.

Pardis Clinic was established as a middle scale site and sampling began in November 1983. In May 1987, and again in August 1987, EPA informed the Department that for CO compliance determination the CO sampling location must represent microscale. On November 4, 1987, the Department moved the monitoring shelter so its probe would comply with microscale siting requirements. The Pardis Clinic site remained microscale until November 16, 1988, when the shelter was moved back to middle scale at the landowner's request. Monitoring at the Pardis Clinic site ended on October 26, 1989.

Since a location meeting microscale siting requirements at the Pardis Clinic could not be achieved, the Department moved the shelter approximately one block west on 10<sup>th</sup> Avenue South. The new location was at Skyway Conoco (30-013<sub>10</sub>25) and monitoring began there on November 9, 1989. EPA approved Skyway Conoco in a November 2, 1989 letter and this microscale site operated through June 2001.

Historically, the Great Falls CO problem has always existed along 10<sup>th</sup> Avenue South, particularly near the mall. In June 2000, the 10<sup>th</sup> Avenue South reconstruction project was completed for a several block area to the east and west of the mall. Traffic data (counts, queue times, etc) collected after the reconstruction suggested a shift in the location of potential maximum CO concentrations further west of Skyway Conoco to another location near the intersection of 2<sup>nd</sup> Street and 10<sup>th</sup> Avenue South. So, in July 2001, the Department moved the Skyway Conoco site to a new location at the potential "hot spot" at 2<sup>nd</sup> Street and 10<sup>th</sup> Avenue South. The new monitoring site was named Overlook Park (30-013-0001). CO monitoring continued at Overlook Park until March 31, 2011, when the instrument was shut down due to low concentrations.

### 2.3.5 NITROGEN DIOXIDE

### **Cascade County**

Historically, a small amount of NO<sub>2</sub> monitoring has been conducted in the Great Falls area. During the MAPS study, the Department collected NO<sub>2</sub> data at the Kiwanis Park site (30-013-1016) from 1979 to 1980. The concentrations were low and Great Falls remained in compliance with the NO<sub>2</sub> NAAQS. As mentioned earlier in this document, the QA/QC requirements in place at that time are now considered inadequate so this old monitoring data is highly suspect.

From 1980 to 1981, NO<sub>2</sub> data was also collected just north of Great Falls as part of the Resource 89-Salem Project conducted by the former Montana Power Company. This was preliminary monitoring done in preparation for the planned construction of a coal-fired electrical generation plant. The project was abandoned and the monitoring ended after only 2 years with low concentrations reported.

### 2.3.6 OZONE

### **Cascade County**

The Montana Power Company conducted ozone monitoring in the Great Falls area from June 1980 to October 1981. The Resource 89-Salem Project was located just north of Great Falls and one mile west of Belt Creek. Three hourly concentrations exceeded the ozone NAAQS in existence at that date. This is the only ozone monitoring that has been conducted in north-central Montana. The single site, AIRS code, years of operation, and its highest 4<sup>th</sup> max 8-hour O<sub>3</sub> average, is listed below:

Resource 89 Salem (30-013-0302), 1980-81 (0.077 ppm)

However, as mentioned earlier in this document, the QA/QC requirements in place at that time, and the ozone monitors from that era, are now considered inadequate so this old monitoring data is very highly suspect.

# 2.3.7 OTHER AIR POLLUTANTS

### **Cascade County**

During the MAPS study from 1978-80, the Department operated a monitoring site at Kiwanis Park (30-013-1016) in Great Falls. The TSP samples were analyzed for a variety of metals.

### **Glacier County**

During 1975 to 85, TSP samples were collected at two different sites (30-035-0001 and 30-035-0010) named the St. Mary Ranger Station. Some of those samples were analyzed for metals, nitrates and sulfates. These analyses were sporadic and relatively low in both numbers and concentrations.

From 1980 to 85, the Department operated a TSP sampler at a site know as Fire Weather Station (30-035-0007) with samples analyzed for lead and cadmium from 1980 to 82. From 1980 to 85, sulfate and nitrate analyses were also conducted on the TSP filters, and generally the concentrations were low as would be expected from a background site on the edge of Glacier National Park. However, some of the sample revealed elevated sulfate concentrations which the Department suspected where correlated with flaring events at oil and gas well operations just to the north across the Canadian border.

### 2.3.8 METEOROLOGY

Over the last few decades, the Department has conducted or reviewed a limited amount of meteorological monitoring at only a few sites in north central Montana. The monitoring usually consisted of wind speed and direction, and temperature, and the data was only collected at sites in Cascade County. In part, this was because most of the monitoring sites were only set up for particulate matter on an intermittent sampling schedule. There were only a few sites equipped with continuous gaseous pollutant instruments where MET monitoring would normally have been included. Those sites were as follows:

- From 1979-80 at the Kiwanis Park site (30-013-1016) for the MAPS study
- From 1980-81 at the MPC Resource 89-Salem Project site (30-013-0302)
- During 1983 at the Great Falls Federal CO site (30-013-0021)
- From 1983 to 1989 at the Pardis Clinic CO site (30-013-1023)
- From 1989 to June 2001 at the Skyway Conoco CO site (30-013-1025)
- From 1994 to 2000 at MRC's Wire Mill Road SO<sub>2</sub> site (30-013-2000)
- From 2000 on at MRC's Race Track SO<sub>2</sub> site (30-013-2001)

Although there is some terrain trapping in local river valleys that cut through the upland bench area, generalized stagnation episodes are not common in this part of Montana. The entire area experiences frequent strong surface winds due to down sloping as the elevated terrain of the Continental Divide drags winds aloft down across the front range of the Rocky Mountains.

In north central Montana, 'real time' and archived meteorological data is available from ASOS monitors operated by NOAA and the FAA in the communities of Cut Bank, Havre, Conrad and Great Falls.

# 2.4 SOUTH CENTRAL MONTANA

### 2.4.0 REGIONAL DESCRIPTION

The South Central region covers the following 12 counties: Judith Basin, Fergus, Petroleum, Musselshell, Golden Valley, Wheatland, Sweet Grass, Stillwater, Yellowstone, Treasure, Big Horn, and Carbon. Those 12 counties are all located east of the Continental Divide and cover an area of approximately 26,635 square land miles (18.3% of the state).

The western portion of this region is flanked by the Rocky Mountains; the northern portion is predominantly bounded by the Missouri River; and the State of Wyoming forms the southern boundary. Yellowstone Park borders the region in the extreme southwestern corner. Moving west to east through the region, the major geographic features include the mountainous areas of the Rocky Mountains, their foothills, and then the sedimentary plains of eastern Montana. In the northern part of the region there is an isolated pair of mountain ranges knows as the Big Snowy and Judith Mountains. In the southern part of the region near the Wyoming border there is another pair of mountain ranges knows as the Pryor and Big Horn Mountains. In addition to the Missouri, other major rivers include the Musselshell and the Yellowstone, both generally flowing west to east through the center of the region. The region's climate can be characterized as semi-arid with cold, dry winters, cool, moist springs, and warm, dry summers.

The major population center in this region is the Billings MSA which includes Billings, the largest city in Montana. The other communities in this region with populations greater than 5,000 are Laurel and Lewistown. The region also includes a portion of the Northern Cheyenne Indian Reservation, and the Crow Indian Reservation, home of the Northern Cheyenne and Crow tribes, respectively.

The Billings/Laurel area is the largest urban area and the industrial center of Montana. Except for the industrial core of Billings/Laurel, the major economic activities in the region are farming (both dryland and irrigated crops) and ranching. In the mountainous portion of the region, tourism is an important economic activity.

# 2.4.1 PARTICULATE MATTER

### **Big Horn County**

The Department monitored for particulate matter in Big Horn County starting in 1972 with HiVol TSP samplers at four sites. Along with TSP, other data, such as heavy metals, nitrates and sulfates, was collected off the HiVol samplers. None of the data violated the TSP NAAQS and sampling ended in 1981. The four TSP sites and their dates of operation were:

- Hardin MDU (30-003-0001) 1972-73
- Carlat Ranch (30-003-0008) 1972-73
- Thomas Ranch (30-003-0009) 1974-81
- Warren Ranch (30-003-0010) 1975-80

Particulate monitoring has also been conducted by the Northern Cheyenne and Crow Indian tribes, and by private companies which operate surface coal mines or power plants. The initial monitoring was for TSP which later was switched over to PM<sub>10</sub>.

### Fergus County

Fergus County is located in central Montana and contains outlying and isolated "prairie island" mountain ranges including the Snowy Mountains, Judith Mountains,

and Moccasin Mountains. The largest city in Fergus County is Lewistown which sits in shallow depression next to Big Spring Creek. The local topography is somewhat similar to a mountain valley in that the area is subject to temperature inversions, especially during the winter months which can result in particulate matter being trapped in the shallow depression for extended periods. Though inversions are not as significant with respect to temperature griedent or duration and tend to break with less energy. The major sources of particulate matter is likely entrained road dust and wood combustion for space heating. The Department monitored TSP in downtown Lewistown (30-027-0002) from January 1980 through December 1983 and no exceedances of the TSP NAAQS were found.

 $PM_{10}$  was monitored by a private company which operated a gold mine located approximately 20 miles north of Lewistown in the Moccasin Mountains. At least one of four sites operated  $PM_{10}$  samplers during the 1988 to 1997 time period.

In 2012, PM10 and PM2.5 was initiated at the BLM Field Office in Lewistown, and adjacent to the Lewistown Airport. The Lewistown station (30-027-0006) was installed under partnership with the BLM in an attempt to further define background concentrations and spatial distribution of these pollutants within the state of Montana.

#### **Stillwater County**

The Department has not monitored for particulate matter in this county but several years of TSP and PM<sub>10</sub> data have been collected in association with the operation of a large underground platinum and palladium mine. The Stillwater Mining Company operated five monitoring sites during 1988 to 2002.

### **Sweetgrass County**

The Department has not monitored for particulate matter in this county but several years of  $PM_{10}$  data have been collected in association with the operation of a large underground platinum and palladium mine. The Stillwater Mining Company operated three different  $PM_{10}$  sites off and on during the 1988 to 2006 time period.

#### **Yellowstone County**

Yellowstone County is located in south central Montana and is bisected from west to east by the Yellowstone River. Yellowstone is another Montana county with a long history of particulate monitoring, especially in the cities of Billings and Laurel which are located in the Yellowstone River Valley. On the north and south edges of the valley, the rimrocks rise abruptly above the valley floor. To the west, the valley is approximately 12 miles wide at Laurel but heading east the valley narrows and on the eastern edge of Billings, the rimrocks form a constriction that is only about one mile wide. The prevailing winds are from the southwest and are generally channeled to the east down the valley from Laurel toward Billings. The winds are usually responsible for good dispersion, but occasional temperature inversions do occur. Billings is the largest city in Montana and one of Montana's three MSAs.

Over the years, the ambient air monitoring network in the Billings/Laurel area has been extensive and comprehensive. The local air pollution control program was first known as Yellowstone County Air Pollution Control (YCAPC), then absorbed into the Yellowstone City-County Health Department (YCCHD), and now is part of Riverstone Health. In conjunction with the DEQ, the local program has monitored for particulate matter at several sites in the Billings/Laurel area without interruption since 1971. During the 1970's, the highest TSP concentrations were generally measured in the downtown areas of both communities. After the passage of the Clean Air Act Amendments of 1977, Billings was designated as nonattainment for the secondary TSP standard. A control plan was designed and successfully implemented to control entrained road dust.

Over the years, TSP sampling occurred in the Billings/Laurel area, as follows:

- Fairgrounds (30-111-0005), 1971-74
- Lockwood School Billings (30-111-0006), 1971-83
- KGHL (30-111-0007), 1971-82
- Billings City Hall (30-111-0008), 1971-91
- Grand Ave School Billings (30-111-0009), 1971-85
- Billings Sewage Treatment Plant (30-111-0047), 1971-72
- Central Park Billings (30-111-0059), 1978-81
- Taft School Billings (30-111-0062), 1980-88
- Lockwood County Park Billings (30-111-0065), 1983-87
- Sandstone School Billings (30-111-0067), 1983-86
- Grand Ave Billings (30-111-0072), 1986-87
- Scottish Rites Billings (30-111-0073), 1987-89
- Laurel Jr. High (30-111-1001), 1971-91
- Laurel New Farm (30-111-1014), 1981-83

 $PM_{10}$  monitoring in Billings started in December 1986. Name sites, AIRS/AQS codes and years of operation are as follows:

- Billings North Park (30-111-0012), 2004-06
- Lockwood County Park Billings (30-111-0065), 1990-91
- Grand Ave Billings (30-111-0072), 1986-87
- Scottish Rites Billings (30-111-0073), 1989
- Federal CU Billings (30-111-0077), 1989-92
- Diamond Parking Billings (30-111-0078), 1992-94
- Mount Olive Billings (30-111-0079), 1994-97
- NorWest Billings (30-111-0081), 1994-97
- Lockwood Park BLAQTC (30-111-1065), 1996-2007

PM<sub>2.5</sub> monitoring in Billings started in January 1999. Name sites, AIRS/AQS codes and years of operation are as follows:

- Lockwood Park BLAQTC (30-111-1065), 1999-2009
- St. Luke's Billings (30-111-0085), 2008-2017
- Lockwood Park (30-111-0087), 2017-Current

### 2.4.2 SULFUR DIOXIDE

### **Big Horn County**

Beginning in 2002, a year of  $SO_2$  data was collected near Hardin at the Power Plant site (30-003-0038). The company conducted the monitoring to establish background levels of air pollutants for use in their permit application for a coal-fired power plant.

#### Musselshell County

As part of the permit application for a coal-fired power plant near Roundup, a private company collected background SO<sub>2</sub> data at the Bull Mountains site (30-065-0004) from 2002-2003.

### Yellowstone County

The Billings/Laurel area in Yellowstone County has dealt with SO<sub>2</sub> issues for several decades dating back to the beginning of local and Montana air quality programs in

the 1960s. There is a long history of SO<sub>2</sub> monitoring in the cities of Billings and Laurel which are located in the Yellowstone River Valley, that runs southwest to northeast and has a major influence on the airflow in the area. To the west near Laurel, the valley is approximately 12 miles wide but heading east the valleys narrows and on the east edge of Billings, the sandstone cliffs or rimrocks result in a constriction that is approximately one mile wide and which channels the air flows. The major industrial SO<sub>2</sub> sources are all located in the Billings/Laurel area along the river valley and as a result, the nearby elevated terrain is often higher than the tallest smokestacks.

Wind roses for the area reflect the orientation of the Yellowstone River Valley. The predominant wind direction is from the southwest and the second most predominant direction is from the northeast, i.e., the wind flows up and down the river valley. As with many areas in Montana, the area experiences inversions in the fall and winter months which causes pollutants to become trapped and concentrated. The breakup of the temperature inversions right after sunrise can force those concentrated layers of SO<sub>2</sub> to the ground, resulting in elevated SO<sub>2</sub> concentrations being measured at the ground level monitoring stations.

There are seven major SO<sub>2</sub> sources in the Billings/Laurel area. In Billings, these include ExxonMobil (oil refinery), ConocoPhillips (oil refinery), Western Sugar (sugar beet factory), Yellowstone Energy Limited Partnership (coke-fired cogeneration power plant), and Montana Sulfur & Chemical (sulfur recovery facility). In Laurel, the major source is the Cenex Harvest States (CHS - oil refinery). All of these sources combined contribute to the SO<sub>2</sub> in the Billings/Laurel airshed.

In anticipation of a pending nonattainment designation, the Billings/Laurel industries and the State signed a stipulation in December 1977, requiring the industries to employ various control options. In March 1978, the Laurel area was designated nonattainment for SO<sub>2</sub> based on ambient air monitoring data. The stipulation was incorporated into the SIP, and it provided the framework to bring the area into compliance. The 1977 stipulation also commissioned the Department (with industrial funding) to conduct an ambient air quality study to more fully describe the magnitude and geographical extent of the SO<sub>2</sub> concentrations. Another major goal of the study was to identify the relative source contributions from each industrial source.

In 1981-82, the Department (through a cooperative effort with the industries) designed and installed a local SO<sub>2</sub> monitoring network. The network consisted of eight SO<sub>2</sub> monitoring sites with meteorological monitoring that included upper air measurements from acoustic radar and pilot balloons. Six of the SO<sub>2</sub> sites were in Billings and two were in Laurel. Using the monitoring data, the Department attempted to validate a mathematical model that could predict concentrations from the various SO<sub>2</sub> sources.

A novel approach was developed using directional analysis and mass emissions to characterize source contributions to the annual average at the worst-case receptor (highest estimated ground-level SO<sub>2</sub> concentration). This was useful but could not be applied as a predictive tool for short-term averages or at other receptors in the valley.

Following the 1981-82 study, the SO<sub>2</sub> monitoring network was scaled down to four sites in 1983. No sites were retained in the Laurel area since the data from the two Laurel sites in the 1981-82 study showed compliance with the NAAQS and MAAQS. The Department felt that greater emphasis was needed in the Billings/Lockwood area. Additional sites were closed on December 1983, June 1986, and January 1987, which left only the Coburn Road site (30-111-0066) as the backbone of the SO<sub>2</sub> network in the Billings/Laurel area.

From 1984 to 1986, the Department explored rule-making options to bring the area into compliance with the SO<sub>2</sub> MAAQS. With no easy administrative solutions in sight, the Montana Legislature passed HB 534 in the 1987 session. This bill exempted the existing Billings/Laurel industries from meeting the MAAQS; they had only to meet the NAAQS (which was being met in Yellowstone County). Acknowledging the Department's diminishing role in SO<sub>2</sub> monitoring in Billings, the legislature passed HB 878, and provided state funding for continued monitoring. With the funding the Department added an additional site, Scottish Rites (30-111-0073), to its network.

Following the 1987 Legislature session, a committee of the Billings/Laurel industries, the local chamber of commerce, and air pollution professionals united to monitor and report on the area's air quality. The Billings/Laurel Air Quality Technical Committee (BLAQTC) was formed in the spring of 1987. The Department was a non-paying member of BLAQTC and worked with the group on site selection, quality assurance, and ambient monitoring. BLAQTC hired a contractor, purchased equipment and installed three SO<sub>2</sub> monitoring stations. Two of the sites were in Billings: Lockwood Park (30-111-1065) and Coulson Road (30-111-2004), and one in Laurel: Laurel-BLAQTC (30-111-0016). By the end of 1987 the combined Department-BLAQTC network consisted of five sites.

The layout of the monitoring network remained the same until October 1989. Upon agreement between the Department and BLAQTC, the Scottish Rite site was moved to Ponderosa School (30-111-0076) and the Coulson Road site was moved to Brickyard Lane (30-111-2005). The group felt that the old sites had served the intend purpose and that higher SO<sub>2</sub> concentrations might be found at the new sites. The EPA approved these sites in a letter dated May 14, 1990. On June 30, 1992, the Ponderosa School site was shut down due to low readings. EPA approved this action in a letter dated June 22, 1992. The monitoring shelter from Ponderosa was moved and replaced the aging shelter at Coburn Road.

Due to interest from EPA and environmental groups, in November 1988 the Department began collecting peak 5-minute SO<sub>2</sub> averages for each valid hour of data. At a meeting with the Department and BLAQTC in February 1990, the EPA offered two SO<sub>2</sub> analyzers to conduct peak monitoring in the range from 1 to 5 ppm. In September 1990, the Department and BLAQTC installed these monitors at the Coburn Road and Lockwood Park sites. These monitors collected peak 5-minute data for 6 months until March 1991. Peak data was also collected at the other three sites with analyzers in the range of 0 to 1 ppm. After completion of the study, an EPA contractor reviewed and analyzed the data, but the results were not conclusive. The Department continued to collect peak 5-minute SO<sub>2</sub> data through 2003, but none was collected at the industry sites. It's worth noting that for calendar year 2002, the Department collected and reported not just the maximum 5-minute value in each hour, but all the 5-minute values in each hour.

In 1990, E.H. Pechan and Associates (Pechan) developed a SO<sub>2</sub> emission inventory for the Billings/Laurel area. The final report, submitted to EPA in 1991, indicated a large difference between actual and potential SO<sub>2</sub> emissions for most sources. Also in 1990, the City of Billings contracted with GeoResearch Inc. to conduct a SO<sub>2</sub> dispersion modeling study for the Billings area utilizing recently gathered meteorological data and the Pechan SO<sub>2</sub> emission inventory. The dispersion modeling results predicted violations of the SO<sub>2</sub> NAAQS at both the potential to emit and maximum actual emission rates.

In 1991, Billings Generation Inc. (BGI) - owned by Yellowstone Energy Limited Partnership (YELP), submitted a permit application for construction and operation of

a coke-fired cogeneration power facility located adjacent to the ExxonMobil Company USA (ExxonMobil) petroleum refinery. Dispersion modeling performed in support of the permit application predicted violations of the SO<sub>2</sub> NAAQS in the Billings area, as well as PSD increments. The BGI permit was issued in March 1992 but it required a reduction in SO<sub>2</sub> emissions from the ExxonMobil.

The Department reviewed and refined the results of those latest modeling studies and concluded additional SO<sub>2</sub> monitoring sites were needed. At the location of the modeled maximum SO<sub>2</sub> "hot-spot" the Department installed an SO<sub>2</sub> monitor. That max site, Sacrifice Cliff (30-111-0080), was approved by EPA effective May 19, 1993, and sampling began. Also, as a result of the permitting process, YELP-BGI was required to operate SO<sub>2</sub> monitors at two other modeled "hot-spots" at Johnson Lane (30-111-2006) and Pine Hills (30-111-2007). EPA approved both sites on March 7, 1994, with data collection starting on November 2, 1993. Through 1996, the Sacrifice Cliff site measured the highest SO<sub>2</sub> concentrations in the Billings/Laurel monitoring network but a change to low sulfur coal at the YELP-BGI facility resulted in a dramatic drop in ambient SO<sub>2</sub> concentrations. After the fuel switch, the Sacrifice Cliff site consistently measured lower concentrations than the values at Coburn Road and the Sacrifice Cliff site was shutdown in June 2001.

In a March 4, 1993 letter to the Governor of Montana, EPA declared the SO<sub>2</sub> control plan for the Billings/Laurel area to be substantially inadequate and EPA required revisions to the Montana SIP. EPA based their deficiency findings on modeled SO<sub>2</sub> NAAQS violations from the GeoResearch Study and the BGI permit application. In addition, EPA determined that the existing control plan did not provide enforceable methods to ensure compliance with the NAAQS. The Department, in cooperation with the SO<sub>2</sub> emitting industries in the Billings/Laurel area, prepared a major revision to the Billings SO<sub>2</sub> control plan. On May 19, 1995, the Department's oversight board (Board) adopted SO<sub>2</sub> control plans for six of the seven industries in the Billings/Laurel area.

Following this adoption, a control plan for Montana Sulfur and Chemical and a revised plan for ExxonMobil were developed through a contested case before the Board. As a result of the new Montana Sulfur and ExxonMobil control plans, similar changes were necessary for the other five industries. The Board approved these modifications on August 9, 1996, and made additional modifications to the ExxonMobil control plan on February 7, 1997. The control plans established emission limits on all SO<sub>2</sub> emitting sources and required continuous emission monitors on most stacks for compliance determinations. After a lengthy review period, EPA partially approved and partially disapproved the Billings/Laurel SO<sub>2</sub> control plan at 67 FR 22168 on May 2, 2002 and at 68 FR 27908 on May 22, 2003. While the new control plans were being developed, a consortium of Billings' industries installed an SO<sub>2</sub> analyzer at the existing Mount Olive SLAMS (CO) site with data collection starting on December 1, 1995. This group also started a new site at Senior High School (30-111-2008) with monitoring beginning on December 26, 1995, for CO, SO<sub>2</sub> and meteorological parameters. Sampling at the Mount Olive and Senior High sites ended on July 1, 1997. In August 1999, another SO<sub>2</sub> site began operation on Coburn Road approximately 0.5 mile north (downhill) of the existing Coburn Road Site. The dispersion modeling studies predicted moderately high SO2 concentrations with high rates of occurrence would occur at the new Lower Coburn Road site (30-111-0083). After 3 years of monitoring, the results showed very low annual averages and very infrequent periods of high concentrations, and as a result the Lower Coburn Road site was shutdown in July 2003.

To better document population exposure and monitor trends in the growing west end of Billings, the Mount Olive site (30-111-0079) was reopened and monitoring begun

for SO<sub>2</sub> and CO in October 2001. In July 2001, SO<sub>2</sub> monitoring was added to the Bridal Shop CO site (30-111-0082). The results from Mount Olive showed a substantial reduction in ambient SO<sub>2</sub> concentrations in the west end of Billings as compared to the earlier monitoring results from the late 1990s, so the Mount Olive site was shutdown in September 2004. At the same time, a review of the SO<sub>2</sub> results from the Bridal Shop site indicated very low concentrations with the occasional elevated reading only when winds were blowing directly from the ConocoPhillips refinery, so the Bridal Shop site was shutdown in June 2004.

Since the 1980s, there has been substantial residential and commercial development on the high bench located above and northeast of downtown Billings. As the population in Billings Heights increased so did the number of complaints about air pollution. The "Heights" is located just north of several SO<sub>2</sub>-emitting industrial sources in the Lockwood Park area, and given the frequency of south winds during the summer months, the Department decided to install a new air monitoring site to investigate the public's air pollution complaints. As a result, the Beartooth Elementary site (30-111-0084) began collecting SO<sub>2</sub> data in August 2003. Over the next 3 years, the site did monitor a few periods of elevated SO<sub>2</sub> but they were of short duration and very infrequent, so the site was shutdown in December 2006.

On August 5, 2013, EPA designated a portion of Yellowstone County as nonattainment for the 2010 SO2 NAAQS (78 FR 47191), leaving the remaining portion of Billings and Yellowstone County undesignated and subject to future analysis and designation. DEQ submitted a request for the EPA to determine that the Billings SO2 nonattainment area has attained the 2010 SO2 NAAQS under the EPA's "clean data policy." Yellowstone County (partial) was formally redesignated to attainment on June 9, 2016 (81 FR 28718)

Currently there are 2 SO<sub>2</sub> monitoring sites in the Billings/Laurel area; one permit required site (Johnson Lane) and one by the Department (Coburn Road). Over the years, SO<sub>2</sub> has been monitored at **31** locations in the Billings/Laurel area. Site names, AIRS/AQS codes, and years of operation are as follows:

- Lockwood School Billings (30-111-0006), 1975-1981
- Laurel BN (30-111-0015), 1981-1982
- Laurel BLAQTC (30-111-0016), 1987-2015
- Hi-Ball Trucking (30-111-0035), 1974-1975
- Division & Grand (30-111-0052), 1975
- 27<sup>th</sup> & Montana (30-111-0053), 1975-1978
- Central Park Billings (30-111-0059), 1978-1981
- Metra Park Billings (30-111-0061), 1981-1982
- Taft School Billings (30-111-0062), 1980-1983
- Shawnee Park Billings (30-111-0063), 1982
- North Johnson Lane DHES (30-111-0064), 1982-1986
- Lockwood County Park DHES (30-111-0065), 1981-1987
- Coburn Road (30-111-0066), 1981-Current
- Scottish Rites Billings (30-111-0073), 1987-1989
- Ponderosa School (30-111-0076), 1989-1992
- Mount Olive Billings (30-111-0079), 1995-1997 & 2001-1904
- Sacrifice Cliff (30-111-0080), 1993-2001
- Bridal Shop (30-111-0081), 2001-2004
- Lower Coburn Road (30-111-0083), 1999-2003
- Beartooth Elementary (30-111-0084), 2003-2006
- Laurel Jr. High (30-111-1001), 1973
- Laurel Water Plant (30-111-1005), 1976
- East Laurel (30-111-1008), 1973-1976

- Laurel East Farm Cenex (30-111-1009), 1976-1980
- Laurel New Farm (30-111-1014), 1980-1982
- Lockwood Park BLAQTC (30-111-1065), 1987-2011
- Coulson Road BLAQTC (30-111-2004), 1987-1989
- Brickvard Lane BLAQTC (30-111-2005), 1989-2015
- Johnson Lane YELP (30-111-2006), 1993-Current
- Pine Hills YELP (30-111-2007), 1993-2013
- Senior High (30-111-2008), 1995-1997

As mentioned earlier, the old SO<sub>2</sub> bubblers only produced a 24-hour average and that data from the mid-1970s is of little use today. Also, even the QA/QC requirements in place in the late 1970 and early 1980s are now considered inadequate so the quality of that old monitoring data is also suspect.

### 2.4.3 LEAD

#### **Big Horn County**

The Department monitored for TSP in Big Horn County starting in 1972 with HiVol TSP samplers at four sites. Along with the TSP sampling, lead was analyzed off the HiVol filters at two of the sites. The two Pb sites were:

- Hardin MDU (30-003-0001) 1972-73
- Carlat Ranch (30-003-0008) 1972-73

### **Fergus County**

As part of the  $PM_{10}$  monitoring a gold mine north of Lewistown, the HiVol  $PM_{10}$  filters were analyzed for lead, for at least part of the time, from 1988 to 1997.

At the U.S. Fish and Wildlife Service's IMPROVE monitoring site at U.L. Bend (30-027-9000), the particle filters are analyzed for a variety of metals, including lead.

### **Stillwater County**

As part of the PM<sub>10</sub> monitoring conducted by the Stillwater Mining Company, the filters were analyzed for lead, and other metals, at five sites during 1988 to 2002.

#### Sweetgrass County

As part of the  $PM_{10}$  monitoring conducted by the Stillwater Mining Company, the filters were analyzed for lead, and other metals, at three sites off and on during the 1988 to 2006 time period.

### Yellowstone County

As mentioned previously, Yellowstone County has a long history of particulate monitoring and at many of those historic TSP sites the filters were analyzed for lead and other metals, especially at sites in Billings and Laurel. Billings is the largest city in Montana and has been since the early 1960s, so it was a logical choice for the early lead monitoring work due to motor vehicle traffic volumes in the urban area. Over the years, the local air program analyzed TSP filters for lead at several sites the Billings/Laurel area, as follows:

- Fairgrounds (30-111-0005), 1971
- Lockwood School Billings (30-111-0006), 1978-1980
- KGHL (30-111-0007), 1971
- Billings City Hall (30-111-0008), 1971-1980
- Grand Ave School Billings (30-111-0009), 1978
- Central Park Billings (30-111-0059), 1978-1980

### 2.4.4 CARBON MONOXIDE

### Yellowstone County

Like the two other large cities in Montana (Great Falls and Missoula), CO has been monitored in Billings over the past four decades dating back to the mid-1970s. Billings was designated as non-attainment for CO in 1978 upon the passage of the Clean Air Act amendments of 1977. In Billings, the downtown area was designated nonattainment due to high readings measure at the monitoring site at 27th & Montana (30-111-0053). The CO violation was attributed primarily to motor vehicle emissions, and the CO control plan included intersection reconstruction at Exposition and First Avenue. Following the work on Main Street, the CO data collected at the Metra Parking Lot site (30-111-0061) from 1985-86 showed compliance with the NAAQS and the Department submitted a redesignation request to EPA.

EPA informed the Department that a maximum concentration microscale CO site needed to be established and that all locations needed to show maintenance and attainment of the NAAQS in order to process the redesignation request. Attempts to locate a new EPA-approved site followed a somewhat convoluted path. After a lengthy approval process, EPA granted permission to locate a microscale CO site just south of the 4th Avenue North entrance to the Metra parking lot. This new site, Metra Parking Lot (30-111-0075) operated from October 1988 to November 1992 but no exceedances of the MAAQS or NAAQS were ever measured at that location.

In order to show attainment and maintenance of the standard at all locations, YCAPC and the Department conducted grab sampling studies during the winters of 1988-89 and 1989-90, and a saturation study in December 1991. The last study identified three potential maximum concentration areas:

- West side along 24th Street West
- Downtown business district along North 27th Street
- Grand Avenue at 15th Street.

As a result of the EPA-approved saturation study, the Department and YCAPC installed two new CO monitoring sites in Billings during the fall of 1992 and shutdown the Metra site. One of the new sites, Mount Olive (30-111-0079) was located on the west end of Billings which had experienced a significant amount of residential and commercial growth. The new Mount Olive site was installed next to 24th Street West just north of the Central Avenue intersection. Sampling at Mount Olive began in November 1992 and the site operated continuously for several years before ending in July 1997 due to low CO readings. Mount Olive was restarted in October 2001 to check on CO concentrations in the growing west end of Billings, but it closed in July 2004 after a review of the data clearly indicated CO levels had declined even further The second new site was installed in the heart of the Billings CBD at the Diamond Parking Lot (30-111-0078) located beside North 27th Street, and between 3rd & 4th Avenues. Diamond Parking began operation in November 1992, and it operated continuously until April 1994. At that time, the monitoring shelter was moved to the other side of 27th Street and one block south to its new location at the Norwest Bank site (30-111-0081). Data collection at the NorWest site started a few weeks later in April 1994.

In December 1995, a consortium of local industrial companies working together with YCAPC installed a site at Billings Senior High School (30-111-2008). The site collected data on CO,  $SO_2$  and meteorological parameters until it was discontinued in July 1997 due to low concentrations.

The CO saturation study had identified three potential max CO concentration areas and the Department and YCAPC had installed monitoring sites at two of those locations: Mount Olive and Diamond/Norwest. The third area identified by the study, Grand Avenue near 15<sup>th</sup> Street, received a CO monitor when the Bridal Shop site (30-111-0082), began operation in December 1997 near the intersection of Grand Avenue and Division. After a comparison of the CO data from the Bridal Shop and NorWest sites revealed higher concentrations at the Bridal Shop, the Department and YCAPC shutdown the Norwest site in July 1999. In 2004, access to the Bridal Shop location was lost due a real estate transaction.

Billings was once a CO nonattainment area and in 2004 the area was operating under a CO Limited Maintenance Plan (LMP) designation, so the Department and YCAPC decided at least one ambient CO monitoring site was needed in the Billings area. Therefore, in September 2004, a new CO monitoring site was established approximately three blocks to the southeast of the former Bridal Shop site in the parking lot of the St. Luke's Episcopal Church. CO monitoring at the St. Luke's site (30-111-0085) was discontinued on March 31, 2011, due to consisitantly low monitored values.

### 2.4.5 NITROGEN DIOXIDE

### **Musselshell County**

As part of the permit application for a coal-fired power plant near Roundup, a private company collected background NO<sub>2</sub> data at the Bull Mountains site (30-065-0004) from January 2002 to November 2003.

#### Yellowstone County

The most recent monitoring for oxides of nitrogen in Yellowstone County was conducted in conjunction with the Department's predicted max concentration ozone monitoring site located approximately 10 miles northeast (downwind) of Billings in the small unincorporated community of Shepherd. The Shepherd Bus Barn site (30-111-0086) began in June 2005 and it operated continuously through December 2007. Since the primary focus of the site was ozone, the NO<sub>2</sub> concentrations did not represent background levels although the Department expected the NO<sub>2</sub> levels to be lower than what would have been measured at a site closer to Billings.

Historically, there has been a limited amount of NO<sub>2</sub> monitoring conducted in southcentral Montana and mostly only in the Billings area. Over the years, NO<sub>2</sub> has been monitored at 5 Billings locations; sites names, AIRS/AQS codes, and years of operation are as follows:

- Lockwood School Billings (30-111-0006), 1979-1981
- Division & Grand (30-111-0052), 1974-1975
- 27<sup>th</sup> & Montana (30-111-0053), 1975-1978
- Central Park Billings (30-111-0059), 1978-1980
- Shepherd Bus Barn (30-111-0086), 2005-2007

As mentioned earlier, the old NO<sub>2</sub> monitors and their assoicated QA/QC requirements which were in place in the 1970 and early 1980s are now considered inadequate so the quality of that old monitoring data is suspect.

### 2.4.6 OZONE

### Yellowstone County

The only ozone monitoring in south-central Montana has occurred in the Billings area. The Billings MSA is the biggest population center in Montana with the greatest concentration of sources (point, area & mobile) emitting probably the largest quantities of VOC and NOx in a localized area. The Billings area also experiences some of the hottest ambient temperatures and the highest amounts of solar radiation of any area in Montana, both which promote photochemical reactions. Thus, the Department's rationale for selecting the Billings area as the location in Montana most likely to experience elevated ozone concentrations.

Historically, there has been a small amount of ozone monitoring conducted in southcentral Montana and only in the Billings area. Over the years, ozone has been monitored at six locations in the Billings area. sites names, AIRS/AQS codes, and years of operation, as well as the highest annual 4<sup>th</sup> max 8-hour ozone average, are listed below;

- Division & Grand (30-111-0052), 1974-1975 (0.086 ppm)
- 27<sup>th</sup> & Montana (30-111-0053), 1975-1978 (0.064 ppm)
- Central Park Billings (30-111-0059), 1978-1981 (0.069 ppm)
- Scottish Rites (30-111-0073), 1987-1989 (0.057 ppm)
- Shepherd Bus Barn (30-111-0086), 2005-2007 (0.062 ppm)
- Road 21 NE of Worden (30-111-2003), 1978 (0.031 ppm)

The ozone data collected at the Billings sites in the mid-1970s revealed several hourly concentrations greater than the MAAQS, but none exceeded the ozone NAAQS in place at that time. As mentioned earlier, the old O<sub>3</sub> monitors and the QA/QC requirements in place during the 1970 and early 1980s are now considered inadequate so the quality of that old monitoring data is very suspect.

In the late 1980s, the Department monitored for ozone at the Scottish Rites monitoring site January 1988 to September 1989. The Scottish Rites site was located near the center of the Billings urban area and as expected, the concentrations were higher during the summer months, but all values were less than the level of the ozone NAAQS as it existed at that time. There was only one hourly value which exceeded the 1-hour ozone MAAQS.

The most recent ozone monitoring was conducted at a site located approximately 10 miles northeast (downwind) of Billings in the small unincorporated community of Shepherd. The Department selected this location for its potential as a max concentration ozone site downwind of the Billings MSA. The Shepherd Bus Barn site began in June 2005 and it operated continuously through December 2007.

# 2.4.7 OTHER AIR POLLUTANTS

## **Big Horn County**

As mentioned under the lead section the Department monitored for TSP and Pb using HiVol TSP samplers at four sites during the 1970s. In addition, benzene, cadium, zinc, nitrates and sulfates analyses were conducted at these sites:

- Hardin MDU (30-003-0001)
- Carlat Ranch (30-003-0008)
- Thomas Ranch (30-003-0009)

### **Fergus County**

In addition to lead analyses on the HiVol PM<sub>10</sub> filters collected at sites near a gold mine north of Lewistown, the filters were analyzed for other metals, including arsenic, cadmium and chromium.

At the U.S. Fish and Wildlife Service's IMPROVE monitoring site at U.L. Bend (30-027-9000), in addition to routine particulate matter measurements, there are a large number of other parameters being analyzed, including:

- Elemental analyses quantifying nearly all elements with atomic weights ≥11 (Na) and ≤82 (Pb)
- Ion chromatography for the anions sulfate, nitrate, nitrite, and chloride
- Thermal optical reflectance (TOR) for particulate organic and elemental carbon (OC and EC, respectively)

### **Stillwater County**

In addition to lead analyses on the PM<sub>10</sub> filters collected by the Stillwater Mining Company, analyses were run for other metals, including arsenic, cadmium, chromium and copper.

### Sweetgrass County

In addition to lead analyses on the PM<sub>10</sub> filters collected by the Stillwater Mining Company, analyses were run for other metals, including arsenic, cadmium, chromium and copper.

### Yellowstone County

As mentioned previously, Yellowstone County has had a long history of particulate monitoring and at many of those old TSP sites the filters were analyzed for lead, other metals, and nitrates and sulfates. In addition to those analyses run on TSP filters, YCAPC also operated a large network of sulfation plate sites which provided a good measure of the amount of reactive sulfur compounds in the ambient air. This network consisted of the following sites in the Billings/Laurel area, as follows:

- Pueblo St. (30-111-0001), 1984-1986
- Bitterroot Drive (30-111-0003), 1982-1990
- 114 Johnson Lane (30-111-0004), 1982-1990
- KGHL (30-111-0007), 1978-1990
- Billings City Hall (30-111-0008), 1978-1990
- Grand Ave School Billings (30-111-0009), 1979-1985
- Garden Ave Billings (30-111-0010), 1982-1986
- 33<sup>rd</sup> & 2<sup>nd</sup> Ave N. Billings (30-111-0011), 1982-1986
- West Coop Laurel (30-111-0013), 1981-1990
- Mountain View Blvd. Billings (30-111-0014), 1982-1986
- Minnesota Ave Billings (30-111-0017), 1982-1990
- 5<sup>th</sup> & South 28<sup>th</sup> Billings (30-111-0018), 1982-1990
- So. 27<sup>th</sup> & 11<sup>th</sup> Ave So. Billings (30-111-0019), 1982-1990
- Conoco East Frontage Rd, Billings (30-111-0021), 1982-1986
- Two Moon Park Billings (30-111-0022), 1982-1986
- State St & 3<sup>rd</sup> So. Billings (30-111-0025), 1984-1986
- Newman School Billings (30-111-0027), 1982-1986
- Bench School Milton Road (30-111-0028), 1982-1986
- Klenck Lane Billings (30-111-0032), 1982-1986
- Piccolo & W. Frontage Rd. Billings (30-111-0034), 1982-1990
- Johnson & Lockwood (30-111-0037), 1982-1986
- Johnson Rd. North Billings (30-111-0038), 1982-1990
- Woodland Drive Billings (30-111-0043), 1982-1983

- Coburn Road Billings (30-111-0044), 1982-1983
- Metra Parking Lot Billings (30-111-0061), 1984-1990
- Lockwood County Park Billings (30-111-0065), 1984-1990
- Coburn Road Billings (30-111-0066), 1984-1990
- Sandstone School Billings (30-111-0067), 1984-1986
- 1320 Garden Ave Billings (30-111-0072), 1986-1987
- Scottish Rites Billings (30-111-0073), 1987-1989
- Laurel Jr. High (30-111-1001), 1978-1990
- Roundhouse Rd. Laurel (30-111-1003), 1982-1990
- Laurel Sewage Treatment Plant (30-1111004), 1982-1986
- Laurel Water Plant (30-111-1005), 1978-1990
- West Laurel Church (30-111-1006), 1982-1990
- A&W Root Beer Laurel (30-111-1007), 1984-1986
- East Laurel (30-111-1008), 1978-1986
- Laurel East Farm Cenex (30-111-1009), 1978-1990
- Root Beer Stand Laurel (30-111-1010), 1984-1986
- Laurel New Farm (30-111-1014), 1980-1982
- Lockwood Park BLAQTC (30-111-1065), 1987-2011

### 2.4.8 METEOROLOGY

### **Yellowstone County**

In south central Montana, the Department has only conducted meteorological monitoring in the Billings/Laurel area. During the 1981-82 Billings SO<sub>2</sub> study, the Department collected extensive MET data using acoustic sounders, wind speed and direction monitors and temperature-sonde equipped pilot balloons. The study revealed a consistent pattern of nocturnal inversions year-round with frequent secondary inversions noted above the river valley as air from the nearby upland bench area drifted over the lower terrain. Brief mid-morning "fumigation" episodes were noted as the nocturnal inversions mixed out and pollutants trapped aloft were transported down to the surface. Persistent stagnation episodes are not common in the area and good ventilation occurs for several hours in the afternoon most days.

In the years since the original Billings SO<sub>2</sub> study, a variety of MET data has been collected at many sites in the Billings/Laurel area. The MET data was collected at sites operated by the Department and the local air program, as well as BLAQTC and industry sites operated by a local environmental consulting firm. MET data has been monitored at 26 locations in the Billings/Laurel area. sites names, AIRS/AQS codes, and years of operation are as follows;

- Lockwood School Billings (30-111-0006), 1979-1980
- Laurel BN (30-111-0015), 1981-1982
- Laurel BLAQTC (30-111-0016), 1987-2015
- Central Park Billings (30-111-0059), 1979-1980
- Metra Park Billings (30-111-0061), 1980-1986
- Taft School Billings (30-111-0062), 1980-1983
- Shawnee Park Billings (30-111-0063), 1982
- North Johnson Lane DHES (30-111-0064), 1983-1986
- Lockwood County Park DHES (30-111-0065), 1981-1987
- Coburn Road (30-111-0066), 1981- present
- Scottish Rites Billings (30-111-0073), 1987-1989
- Metra at 6th & Exposition (30-111-0074), 1988
- Metra at Exposition & 4th Ave N. (30-111-0075), 1988-1992
- Ponderosa School (30-111-0076), 1989-1992

- Mount Olive Billings (30-111-0079), 1992-1997
- Sacrifice Cliff (30-111-0080), 1993-2001
- Bridal Shop (30-111-0081), 1997-1999
- Lower Coburn Road (30-111-0083), 1999-2003
- Laurel East Farm Cenex (30-111-1009), 1976-1980
- Laurel New Farm (30-1111014), 1980-1982
- Lockwood Park BLAQTC (30-111-1065), 1987-2011
- Coulson Road BLAQTC (30-111-2004), 1987-1989
- Brickyard Lane BLAQTC (30-111-2005), 1989-2015
- Johnson Lane YELP (30-111-2006), 1993 present
- Pine Hills YELP (30-111-2007), 1993-2013
- Senior High (30-111-2008), 1995-1997

In south central Montana, additional 'real time' and archived meteorological data is available from ASOS monitors operated by NOAA and the FAA.

# 2.5 EASTERN MONTANA

### 2.5.0 REGIONAL DESCRIPTION

The Eastern region covers the following 16 counties: Phillips, Valley, Daniels, Sheridan, Roosevelt, Richland, McCone, Garfield, Prairie, Dawson, Wibaux, Fallon, Custer, Rosebud, Powder River, and Carter. These 16 counties cover approximately the eastern third of Montana with an area of approximately 46,965 square land miles (32.3% of the state).

The northern portion of this region is bounded by Canada, the eastern side is bordered by the States of North Dakota and South Dakota, and the State of Wyoming forms the southern boundary. The major geographic features of the region are the glaciated plains north of the Missouri River and the sedimentary plains south of the river. In addition to the Missouri, other major rivers include the Milk and the Yellowstone, both generally flowing west to east through the region. The region's climate can be characterized as semi-arid with cold, dry winters, cool, moist springs, and warm, dry summers.

Miles City is the largest community in this region and there are no other communities in this region with a population of greater than 5,000. The region also includes portions of the Fort Belknap and Northern Cheyenne Indian Reservations, and the Fort Peck Indian Reservation, home of the Assiniboine and the Gros Ventre, the Northern Cheyenne, and the Assiniboine and Sioux tribes, respectively.

Major economic activities in the region include agricultural operations and energy production. The agricultural operations include farming (both dryland and irrigated crops) and ranching. In the eastern portion of the region there is a significant oil and gas well development, along with associated transfer and production facilities. Coal strip mines, gas wells, and coal-fired power plants provide a majority of the economic activity in the southeastern portion of the region.

### 2.5.1 PARTICULATE MATTER

### **Carter County**

The only criteria pollutant monitoring onducted by the Department in Carter County was for TSP starting in 1974 with HiVol samplers at two sites near Ekalaka. Some of the historical 1970s data resulted from a monitoring study initiated by EPA Region 8 to gauge the potential effects of planned energy extraction and conversion facilities

on the Northern Great Plains. In general, the Northern Great Plains Resource Program (NGPRP) started in 1974 and continued though 1978. The Carter site near Ekalaka was one of the original NGPRP sites which the Department assumed responsibility for in 1975. The quality of the data is suspect based on today's QA/QC requirements, but it provides a useful historical context of some of the earliest ambient air monitoring in eastern Montana. Along with TSP, nitrate, and sulfate analyses were extracted off the HiVol filters. None of the data violated the TSP NAAQS and sampling ended in 1977. The two TSP sites and their dates of operation were:

- Carter site NGPRP, Ekalaka (30-011-0001) 1974-1977
- Hutton Residence, Ekalaka (30-011-0002) 1977

### **Custer County**

The only criteria pollutant monitoring conducted by the Department in Custer County was for TSP starting in 1972 with HiVol samplers at three sites in Miles City. Some of the historical 1970s data resulted from a monitoring study initiated by EPA Region 8 to gauge the potential effects of planned energy extraction and conversion facilities on the Northern Great Plains. In general, the NGPRP started in 1974 and continued though 1978. The Littlefield site was added to the suite of original NGPRP sites and the Department assumed responsibility for it. The quality of the data is suspect based on today's QA/QC requirements, but it provides a useful historical context of some of the earliest ambient air monitoring in eastern Montana. Along with TSP, benzene, cadmium, lead and zinc analyses were extracted off the HiVol filters at one site. None of the data violated the TSP NAAQS and sampling ended in 1977. The three TSP sites and their dates of operation were:

- Main & Hayes, Miles City (30-017-0001) 1972-1973
- PCA Building, Miles City (30-017-0003) 1980-1983
- Littlefield Hilltop NGPRP, Miles City (30-017-0004) 1976-1978

### **Daniels County**

A variety of criteria pollutant monitoring has been conducted by the Department in Daniels County. However the results of this monitoring are dated, since it was done as part of the Popular River special study designed to gauge the effects of a coalfired power plant built in Coronach, Saskatchewan, Canada, which is approximately 5 miles north of Scobey. Since the end of the Popular River study, the Department has not collected any other air quality data in Daniels County. For the Popular River study, TSP monitoring started in 1975 with HiVol samplers and within a few years data was being collected at other sites. Some of the historical 1970s data resulted from a monitoring study initiated by EPA Region 8 to gauge the potential effects of planned energy extraction and conversion facilities on the Northern Great Plains. In general, the NGPRP started in 1974 and continued though 1978. The first three Scobey sites were not some of the original NGPRP sites, but their data was included in the NGPRP. The quality of the data is suspect based on today's QA/QC requirements, but it provides a useful historical context of some of the earliest ambient air monitoring in eastern Montana. Along with TSP data, nitrate and sulfate analyses were extracted off the HiVol filters at some of the sites. None of the data violated the TSP NAAQS and sampling ended in 1987. The TSP sites and their dates of operation were as follows:

- Scobey Border Station #1 (30-019-0001) 1975-1985
- Richardson Residence (30-019-0002) 1977-1985
- Engberg Ranch (30-019-0003) 1977-1980
- Hanrahan Ranch (30-019-0004) 1980-1985

Marlenee Ranch (30-019-0010) 1986-1987

### **Dawson County**

The only criteria pollutant monitoring conducted by the Department in Dawson County was for TSP with HiVol samplers in Glendive. The historical 1970s data resulted from a monitoring study initiated by EPA Region 8 to gauge the potential effects of planned energy extraction and conversion facilities on the Northern Great Plains. In general, the NGPRP started in 1974 and continued though 1978. The sites in Glendive were some of the original NGPRP sites which the Department assumed responsibility for in 1975. The quality of the data is suspect based on today's QA/QC requirements, but it provides a useful historical context of some of the earliest ambient air monitoring in eastern Montana. Along with TSP, nitrate and sulfate analyses were extracted off the HiVol filters at two sites. The sites and their dates of operation were:

- Burman Ranch NGPRP, Glendive (30-021-0001) 1974-1978
- NGPRP Magelsky Lindsay (30-021-0002) 1974-1977
- NGPRP Magelsky Lindsay (30-021-0003) 1974-1978
- KGVN TV Tower Lindsay (30-021-0004) 1978-1982
- Dawson Community College, Glendive (30-021-1001) 1980-1982
- Medical Arts Center, Glendive (30-021-1002) 1982-1984

### **Fallon County**

The only criteria pollutant monitoring conducted by the Department in Fallon County was for TSP in cooperation with the BLM during the early 1980s. In the late 1970s and early 1980s, eastern Montana experienced a significant amount of oil and gas work – both in exploration and development. As part of their environmental assessment work, the BLM partnered with the Department to collect background air quality data in certain areas of Montana. One of those BLM background sites was on the SW edge of the small town of Plevna where a HiVol TSP sampler was operated.

Bohle Place, Plevna (30-025-0001) 1981-1984

### **Garfield County**

The only criteria pollutant monitoring conducted by the Department in Garfield County was for TSP during the early 1980s. In the late 1970s and early 1980s, eastern Montana experienced a significant amount of oil and gas work – both in exploration and development. Partly in response to requests for comments on the air quality portion of environmental assessments, the Department decided to collect background air quality data in eastern Montana. The site chosen was in Garfield County which is one of the most remote and least populated counties in the lower 48 US States. Based on the July 1, 2009, US Census estimates, the population density of Garfield County is only 0.3 people per square mile. In 1980, the county's population density was essentially the same with the population then only 1,656. The background site was located approximately 16 miles east of Jordan on the Randy Billings Ranch.

Randy Billings Ranch, Jordan (30-033-0002) 1981-1984

### **McCone County**

The most recent monitoring was completed by a private company to satisfy the preconstruction PM<sub>10</sub> data needs for a potential air quality permit application and not by the Department. However, a limited amount of criteria pollutant monitoring for TSP was conducted by the Department in McCone County in the 1970s. The historical 1970s data resulted from a monitoring study initiated by EPA Region 8 to gauge the potential effects of planned energy extraction and conversion facilities on the Northern Great Plains. In general, the NGPRP started in 1974 and continued though 1978. The quality of the data is suspect based on today's QA/QC requirements, but it provides a useful historical context of some of the earliest ambient air monitoring in eastern Montana. The TV Hill site south of the Fort Peck Reservoir was one of the original NGPRP sites which the Department assumed responsibility for in 1975. Along with TSP and met, "bubblers" produced NO<sub>2</sub> and SO<sub>2</sub> data from this site. The sites and their dates of operation were as follows:

- NGPRP TV Hill Fort Peck (30-055-0001) 1974-1979
- Nelson Creek (30-055-0002) 2004-2005

### **Phillips County**

Phillips County is located in north-central Montana and contains the isolated "prairie island" mountain range named the Little Rocky Mountains. The largest community in Phillips County is the county seat of Malta. Criteria pollutant monitoring was conducted by the Department, in cooperation with the BLM, for TSP during the early 1980s. In the late 1970s and early 1980s, eastern Montana experienced a significant amount of oil and gas exploration and development. As part of BLM's environmental assessment work, a partnership with the Department was established to define background concentrations and spatial distribution of pollutants within the state of Montana. One of those BLM background sites was on the Bowdoin National Wildlife Refuge, approximately 5 miles east of Malta. In 2012 the Malta Station (30-071-0010) was added, and PM10 and PM2.5 initiated on BLM land sited approximately 2 miles south of Malta.

- Bowdoin NWR BLM, Malta (30-071-0001) 1981-1985
- Malta Station, BLM Malta (30-071-0010) 2012-Present

Additionally, several  $PM_{10}$  sites were installed by a private company which operated two gold mines approximately 50 miles southwest of Malta. The gold mining operations were in the Little Rocky Mountains near the historic ghost towns of Zortman and Landusky. At some of those six  $PM_{10}$  sites, the filters were analyzed for heavy metals, and MET data was collected at three sites.

- Pegasus Mining Landusky #2 (30-071-0002) 1990-1997
- Pegasus Mining Sullivan Park #3, Zortman (30-071-0003) 1990-1993
- Pegasus Mining Downey Residence #5, Zortman (30-071-0005) 1990-1997
- Pegasus Mining School House #6, Zortman (30-071-0006) 1990-1993
- Pegasus Mining Francis Kolczak #1, Zortman (30-071-0007) 1990-1997
- Pegasus Mining Square Butte #7, Zortman (30-071-0008) 1990-1994
- Pegasus Mining Upper Alder Gulch (30-071-0009) 1993-1997

### Powder River County

Initial criteria pollutant monitoring conducted by the Department in Powder River County was for TSP starting in 1972 with HiVol samplers. Some of the historical 1970s data resulted from a monitoring study initiated by EPA Region 8 to gauge the potential effects of planned energy extraction and conversion facilities on the Northern Great Plains. In general, the NGPRP started in 1974 and continued though 1978. The Randall Ranch site was one of the original NGPRP sites and the Department assumed responsibility for it. The Fort Howes site was supported by the EPA National Exposure Research Lab and the TSP filters were analyzed for a variety of metals, plus nitrates and sulfates. The quality of the data is suspect based on today's QA/QC requirements, but it provides a useful historical context of some of the earliest ambient air monitoring in eastern Montana. The three TSP sites and their dates of operation were:

- LaFlamme (30-075-0006) 1972-1973
- Fort Howes Ranger Station (30-075-0008) 1974-1978
- Randall Ranch NGPRP Broadus (30-075-0009) 1976-1978

Coal bed natural gas development, originating in Wyoming, was projected to develop throughout the Powder River and Tongue River. In preparation for such an occurrence, DEQ established two new multi-pollutant monitoring sites, including PM10 and PM2.5, in 2009 near Broadus and Birney. Since development did not come to fruition, these monitors serve to establish background values and characterize air trends in this region. Sits were developed cooperatively with the BLM to collect this baseline air pollution data. Site information follows:

- Broadus (30-075-0001) 2009-Present
- Birney (30-087-0001) 2009-Present

### **Richland County**

The air quality concerns in Richland County have traditionally centered in the area of the city of Sidney. Sidney is located near the west bank of the Yellowstone River and only a few miles west of the North Dakota border. In the late 1970's and early 1980's, the area experienced a robust economic upturn due to oil exploration and development in the surrounding areas of both Montana and North Dakota, and with similar spikes of periodic reoccurrence since. Other industrial sources in the Sidney area include Montana Dakota Utilities (coal-fired power plant) and Sidney Sugars (sugar beet processing).

The earliest criteria pollutant monitoring conducted by the Department in Richland County was for TSP in 1973 with a HiVol sampler. In 1983, the Department installed a HiVol TSP sampler in downtown Sidney and operated it for a few years before reallocating its monitoring resources to western Montana for the new PM<sub>10</sub> standard. More recently the Department installed a monitoring site approximately 15 miles northwest of Sidney to gauge the effects of development in the oil patch. The Sidney-Oil Field site (30-083-0001) included the collection of continuous PM<sub>10</sub>, and PM<sub>2.5</sub> data. The Sidney site was again relocated in May of 2017 to its present site which is approximately 25 Northwest of Sidney and immediately adjacent to State Highway 201. The sites AIRS/AQS codes and dates of operation are as follows:

- Sidney-201 (30-083-0002) 2017-Present
- Oil Field (30-083-0001) 2008-2017
- Buxbaum (30-083-0005) 1973
- Sidney Downtown (30-083-0010) 1983-1987

### **Roosevelt County**

The most recent monitoring has been by the Assiniboine & Sioux Tribes of the Fort Peck Indian Reservation (Fort Peck Tribes) and not by the Department. Additionally, in 2002, the Fort Peck Tribes began operating an IMPROVE Protocol monitoring site. The IMPROVE site monitors a wide variety of parameters, including  $PM_{2.5}$  and  $PM_{10}$ . Historically however, a limited amount of criteria pollutant monitoring was conducted by the Department in Roosevelt County in the 1970s and 1980s using HiVol TSP samplers. Some of the historical data resulted from a monitoring study initiated by EPA Region 8 to gauge the potential effects of planned energy extraction and conversion facilities on the Northern Great Plains. In general, the NGPRP started in 1974 and continued though 1978. The Witte Well site was one of the original NGPRP sites which the Department assumed responsibility for in 1975. The quality of the historical data is suspect based on today's QA/QC requirements, but it provides a useful historical context of some of the earliest ambient air monitoring in eastern Montana. The sites and their dates of operation were as follows:

- Witte Well NGPRP (30-085-0001) 1974-1976
- Wolf Point Airport (30-085-0002) 1982-1984
- Jack & Jill Grocery Wolf Point (30-085-0009) 1984-1987
- Fort Peck IMPROVE Protocol (30-085-9000) 2002-present

### **Rosebud County**

In Rosebud County, concerns with PM have been associated with the city of Colstrip, the unincorporated community of Ashland, and the large surface coal mines in the area. At Colstrip there are four coal-fired power generating plants located at a single complex owned by Talen Energy. Nearby there is another small, coal-fired power generating plant owned by Colstrip Energy Limited Partnership (CELP). Also nearby are two large surface coal mines owned by Western Energy Company (WECO) and Peabody Coal Company. In Ashland, there have been air quality issues due to entrained road dust and emissions from wood and coal burning stoves.

On November 12, 2008, EPA lowered the NAAQS for Pb to 0.15  $\mu$ g/m3 (micrograms per cubic meter) (73 FR, 66964). In addition, the rule established a design criteria for Pb in 40 CFR 58, Appendix D, Section 4.5 (a) requiring ambient air monitoring of certain sources which are expected to or have been shown to contribute to a maximum concentration in ambient air in excess of the Pb NAAQS. These regulations require, at a minimum, the installation of one source-oriented SLAMS site to measure the maximum Pb concentration in the ambient air resulting from each non-airport Pb source which emits 0.50 or more tons per year (tpy), and from each airport which emits 1.0 or more tpy.

The historical 1970s data in Rosebud County resulted from a monitoring study initiated by EPA Region 8 to gauge the potential effects of planned energy extraction and conversion facilities on the Northern Great Plains. The site in Lame Deer was one of the original NGPRP sites which the Department assumed responsibility for in 1975. The BN and McRae sites in Colstrip were added to NGPRP after the study started. The Ashland Ranger District site was supported by the EPA National Exposure Research Lab. The quality of this old data is suspect based on today's QA/QC requirements, but it provides a useful historical context of some of the earliest ambient air monitoring in eastern Montana.

Along with TSP, nitrate and sulfate analyses were extracted off the HiVol filters at some sites. The sites and their dates of operation were:

- Fisher Butte NGPRP, Lame Deer (30-087-0003) 1974-1980
- Kulver Ranch, Forsyth (30-087-0009) 1972-1973
- Ira Greson's, Forsyth (30-087-0021) 1972-1973
- Bailey Ranch (30-087-0024) 1972-1973
- Ferris Ranch (30-087-0025) 1973
- Ashland Ranger District (30-087-0026) 1970-1978
- BN NGPRP, Colstrip (30-087-0027) 1973-1980
- McRae NGPRP, Colstrip (30-087-0028) 1973-1979
- Lame Deer South (30-087-0304) 1983-1984
- Lame Deer West (30-087-0305) 1982-1989
- Birney Community Church (30-087-0306) 1983-1986

In addition to the historical monitoring conducted by the Department, several industrial facilities operated particulate samplers (TSP and PM<sub>10</sub>) at various times, and the Northern Cheyenne Indian tribe operates a PM monitoring network on the reservation. The oldest industrial/tribal TSP monitoring started in 1972, with several sites later on switching over to PM<sub>10</sub>, and more recently a few transitioning to PM<sub>2.5</sub> samplers. In 2002, the Northern Cheyenne Tribe began operating an IMPROVE Protocol monitoring site for a wide variety of parameters; including PM<sub>2.5</sub> and PM<sub>10</sub>. Just recently, the Department installed a monitoring site near Birney to collect background data, including PM<sub>2.5</sub> and PM<sub>10</sub>, prior to the anticipated large-scale development of coal bed methane gas fields in southeastern Montana. The PM<sub>10</sub> & PM<sub>2.5</sub> sites operated by the Department, the various companies and the Northern Cheyenne Tribe in Rosebud County are summarized below:

- Tongue River, Birney (30-087-0001) 2010 present
- N. Cheyenne Highways 312 & 39, Lame Deer (30-087-0307) 1997–present
- MPC #3 Cedar Ave. Hill, Colstrip (30-087-0700) 1989-2001
- MPC #1 Highway 39 Industrial Park, Colstrip (30-087-0701) 1992-2001
- MPC #2 Ponds 5 & 6 West, Colstrip (30-087-0702) 1992-1995
- WECO #1 Golf Course, Colstrip (30-087-0714) 1992-2001
- Peabody Big Sky Powder Magazine, Colstrip (30-087-0725) 1989-2003
- WECO #9 Area B W. Hiway 39, Colstrip (30-087-0726) 1992-2001
- WECO #10 Area B Range Hillside, Colstrip (30-087-0727) 1992-2001
- WECO #11 Area C Fenced Pasture, Colstrip (30-087-0728) 1992-2001
- WECO #13 Area C Cattle Pasture, Colstrip (30-087-0729) 1992-2001
- WECO #14, Colstrip (30-087-0732) 1992-2001
- WECO #12, Colstrip (30-087-0733) 1992-2001
- Peabody Big Sky #9 Upper Area B, Colstrip (30-087-0738) 1989-2003
- Peabody Big Sky #10 Lower Area B, Colstrip (30-087-0739) 1989-2003
- Northern Chevenne Morningstar (30-087-0760) 1993–1996
- Northern Cheyenne Badger Peak (30-087-0762) 2002 present
- CELP Rosebud Energy #1, Colstrip (30-087-0763) 1989-1999
- CELP Rosebud Energy #2, Colstrip (30-087-0764) 1989-1992
- CELP Rosebud Energy #3 Wimer's, Colstrip (30-087-0765) 1989-1992
- CELP Rosebud Energy #1 North, Colstrip (30-087-0766) 1999-present

#### Sheridan County

In 1999, the U.S. Fish and Wildlife Service began operating an IMPROVE monitoring site at their National Wildlife Refuge (NWR) near Medicine Lake. The site monitors a wide variety of parameters, including  $PM_{2.5}$  and  $PM_{10}$ .

Medicine Lake NWR IMPROVE (30-091-9000) 1999-present

### Valley County

The only particulate matter monitoring in Valley County was for TSP by the Fort Peck Tribes. The site and its dates of operation are as follows:

Fort Peck Tribes Lustre Oil Field (30105-0002) 1985-1987

### 2.5.2 SULFUR DIOXIDE

### **Daniels County**

As mentioned previously in the PM section, a variety of criteria pollutant monitoring has been conducted by the Department in Daniels County, but this monitoring is dated since it was done as part of the Popular River special study. The study was

intended to measure the effects of a coal-fired power plant built in Coronach, Saskatchewan, Canada, which is approximately 5 miles north of Scobey (891 - 2008 US Census estimate). For the Popular River study, SO<sub>2</sub> monitoring started in 1976 and once the study ended, the Department has not collected any other air quality data in Daniels County. The quality of the earliest SO<sub>2</sub> data is probably questionable based on today's QA/QC requirements but it provides a useful historical context of some of the earliest ambient air monitoring in eastern Montana. None of the data violated the SO<sub>2</sub> NAAQS and sampling ended in 1987. The SO<sub>2</sub> sites and their dates of operation were as follows:

- Scobey Border Station #1 (30-019-0001) 1979-1985
- Hanrahan Ranch (30-019-0004) 1980-1985
- Marlenee Ranch (30-019-0010) 1976-1987

### **McCone County**

There was a limited amount of criteria pollutant monitoring conducted in McCone County in the 1970s which included SO<sub>2</sub> data collected with "bubblers". The historical 1970s data resulted from a monitoring study initiated by EPA Region 8 to gauge the potential effects of planned energy extraction and conversion facilities on the Northern Great Plains. The quality of the SO<sub>2</sub> data is suspect based on today's QA/QC requirements but it provides a useful historical context of some of the earliest ambient air monitoring in eastern Montana. The TV Hill site south of the Fort Peck Reservoir was one of the original NGPRP sites which the Department assumed responsibility for in 1975. The site and its dates of operation are as follows:

NGPRP TV Hill Fort Peck (30-055-0001) 1974-1975

### **Richland County**

The air quality concerns in Richland County have traditionally centered in the area of the city of Sidney. Sidney is located near the west bank of the Yellowstone River and only a few miles west of the North Dakota border. In the late 1970's and early 1980's, the area experienced a robust economic upturn due to oil exploration and development in the surrounding areas of both Montana and North Dakota, and with similar spikes of periodic reoccurrence since. Other industrial sources in the Sidney area include Montana Dakota Utilities (coal-fired power plant) and Sidney Sugars (sugar beet processing).

In 2009 the Department installed an SO2 instrument at the Sidney-Oil Field site (30-083-0001) monitoring site approximately 15 miles northwest of Sidney to gauge the effects of development in the oil patch. The Sidney site was again relocated in May of 2017 to its present site which is approximately 25 Northwest of Sidney and immediately adjacent to State Highway 201. Though observed concentrations are well above background levels, values are relatively low and no exceedance of the SO<sub>2</sub> NAAQS has occurred. The sites AIRS/AQS codes and dates of operation are as follows:

- Sidney-201 (30-083-0002) 2017-Present
- Oil Field (30-083-0001) 2008-2017

### **Roosevelt County**

Historically a limited amount of criteria pollutant monitoring was conducted by the Department in Roosevelt County. The Department collected  $SO_2$  data briefly at one site in the early 1980s, and the Fort Peck Tribes collected data at another site in the late 1980s. The quality of the historical  $SO_2$  data may be suspect based on today's

QA/QC requirements but it provides a useful historical context of some of the earliest ambient air monitoring in eastern Montana. The sites and dates of operation were:

- Wolf Point Airport (30-085-0002) 1983-1984
- Popular River Valley (30-085-0008) 1985-1989

### **Rosebud County**

In Rosebud County, the SO<sub>2</sub> concerns have always been associated with the coalfired power generating plants in or near the community of Colstrip. Within Colstrip there is a, mine mouth, coal-fired power generating plant located at a single complex owned by Talen Enery. Nearby is another small, coal-fired power plant owned by Colstrip Energy Limited Partnership (CELP) - Rosebud Energy. The topography of the Colstrip area is semi-rugged to rolling terrain. The area sometimes experiences temperature inversions but generally the air movement is sufficient, and the atmosphere is usually well ventilated.

In the 1970s, EPA Region 8 initiated a monitoring study to gauge the potential effects of planned energy extraction and conversion facilities on the Northern Great Plains. The Fisher Butte site was one of the original NGPRP sites and the Department assumed responsibility for in 1975. The quality of this old SO<sub>2</sub> data is suspect based on today's QA/QC requirements but it provides a useful historical context of some of the earliest ambient air monitoring in eastern Montana. The historical sites and dates of operation were:

- Fisher Butte NGPRP, Lame Deer (30-087-0003) 1975-1977
- BN, Colstrip (30-087-0027) 1973-1977
- McRae, Colstrip (30-087-0028) 1973-1977

In addition to the historical monitoring conducted by the Department, the companies mentioned above operated SO<sub>2</sub> monitoring sites around their coal-fire power plants at various times. The MPC Colstrip Units #1 and #2 were permitted in 1973 by the Department. In 1978, EPA issued a PSD permit for MPC Units #3 and #4. MPC/PPL-MT maintained an ambient air monitoring network from the 1970s through 2001 around their power plants and continues to support a tribal air monitoring program on the Northern Cheyenne Indian Reservation. The Northern Cheyenne Tribe operates an SO<sub>2</sub> monitoring network on the reservation in the elevated terrain south of Colstrip. The SO<sub>2</sub> sites operated by the Department, the various companies and the Northern Cheyenne Tribe in Rosebud County are summarized below:

- MPC #3 Cedar Ave. Hill, Colstrip (30-087-0700) 1982-2001
- MPC #1 Highway 39 Industrial Park, Colstrip (30-087-0701) 1981-2001
- MPC #2 Ponds 5 & 6 West, Colstrip (30-087-0702) 1981-2001
- MPC #3, Colstrip (30-087-0703) 1982
- MPC #4 Hawthorne Hill, Colstrip (30-087-0704) 1977-1992
- Northern Cheyenne Morningstar (30-087-0760) 1981 present
- Northern Chevenne Garfield Peak (30-087-0761) 1981 present
- Northern Cheyenne Badger Peak (30-087-0762) 1981 present
- CELP Rosebud Energy #1, Colstrip (30-087-0763) 1989-1998
- CELP Rosebud Energy #2, Colstrip (30-087-0763) 1989-1992
- CELP Rosebud Energy #3 Wimer's, Colstrip (30-087-0763) 1989-1992

On August 10, 2015, EPA finalized the Data Requirements Rule (DRR) for the 2010 1-hour SO2 primary NAAQS (40 CFR 51, Subpart BB). The SO2 DRR required that air agencies identify and characterize air quality around large sources. Talen Montana, LLC's (Talen) Colstrip Steam Electric Station located in Rosebud County was the sole source in Montana identified as applicable to the rule. As required in the rule for characterizing air quality for the primary 2010 SO2 NAAQS, Montana submitted the appropriate designation of attainment for Rosebud County as demonstrated through modeling on December 20, 2016. On January 9, 2018 within 83 Federal Register (FR) 1098, EPA published a notice that they agreed with Montana's determination and designated Rosebud county as Attaining/Unclassifiable

### 2.5.3 LEAD

### **Custer County**

The only lead monitoring conducted by the Department in Custer County started in 1972 with a HiVol sampler at a site in Miles City (population 8,646 - 2013 US Census estimate). The quality of the Pb data is suspect based on today's QA/QC requirements but it provides a useful historical context of some of the earliest ambient air monitoring in eastern Montana. Along with lead and TSP, benzene, cadmium, and zinc analyses were extracted off the HiVol filters at the site. The lead site and its dates of operation were:

Main & Hayes, Miles City (30-017-0001) 1972-1973

### **Phillips County**

The Department has not conducted any lead criteria pollutant monitoring in Phillips County. However, several  $PM_{10}$  sites were run by a private company which operated two gold mines approximately 50 miles southwest of Malta. At some of those six  $PM_{10}$  sites, the filters were analyzed for heavy metals, including lead.

### **Powder River County**

The only lead monitoring conducted by the Department in Powder River County started in 1972 with some of the HiVol TSP filters analyzed for a variety of metals, including Research Lab. The quality of this old data is suspect based on today's QA/QC lead. The Fort Howes site was supported by the EPA National Exposure requirements, but it provides a useful historical context of some of the early air monitoring in eastern Montana. The two Pb sites and dates of operation are:

- LaFlamme (30-075-0006) 1972-1973
- Fort Howes Ranger Station (30-075-0008) 1975-1978

### **Rosebud County**

In Rosebud County, the historical lead data dates from the 1970s. Some of it resulted from a monitoring study initiated by EPA Region 8 to gauge the potential effects of planned energy extraction and conversion facilities on the Northern Great Plains. The BN site in Colstrip was added to NGPRP after the study started. The Ashland Ranger District site was supported by the EPA National Exposure Research Lab. The quality of this old Pb data is suspect based on today's QA/QC requirements but it provides a useful historical context of some of the earliest air monitoring in eastern Montana. At the Northern Cheyenne Tribe's IMPROVE protocol site at Badger Peak, the particle filters are analyzed for a variety of metals, including lead. The sites with Pb data and their dates of operation were:

- Kulver Ranch, Forsyth (30-087-0009) 1972-1973
- Ira Greson's, Forsyth (30-087-0021) 1972
- Bailey Ranch (30-087-0024) 1972-1973
- Ashland Ranger District (30-087-0026) 1975-1978
- BN NGPRP, Colstrip (30-087-0027) 1978
- Northern Cheyenne IMPROVE Protocol (30-087-0762) 1999-Present

Talen Montana, LLC's Colstrip Steam Electric Generating Station has historically reported total lead emissions in excess of 0.5 tpy. As stated in 40 CFR 58, Appendix D, Section 4.5 (a) (ii) the Regional EPA Administrator may waive the requirement stated above if the local air agency can demonstrate the Pb source will not contribute to a maximum Pb concentration in ambient air in excess of 50% of the NAAQS (based on historical monitoring data, modeling, or other means). On May 18, 2018, the State of Montana submitted a monitoring waiver request and along with supporting documentation to EPA Region 8 to forego monitoring in Colstrip due to modeled Pb concentrations in the ambient air less than 50% of the NAAQS. EPA Region 8 granted a waiver from the Pb monitoring requirement in Colstrip on November 5, 2018.

### **Sheridan County**

At the U.S. Fish and Wildlife Service's IMPROVE monitoring site at Medicine Lake, the particulate filters are analyzed for a variety of metals, including lead.

Medicine Lake NWR IMPROVE (30-091-9000) 1999-present

# 2.5.4 CARBON MONOXIDE

### **Rosebud County**

In Rosebud County, as well as the remainder of eastern Montana, carbon monoxide monitoring has only been conducted at one site in Colstrip. Little evidence for concern exists regarding CO in eastern Montana due to the lack of any large population centers and insufficient motor vehicle emissions which might result in elevated concentrations in the ambient air. The topography of the Colstrip area is characterized as semi-rugged or rolling terrain. The area sometimes experiences temperature inversions but generally the air movement is sufficient and the atmosphere is usually well ventilated. A single industrial site was operated near the City of Colstrip to assess impact from the nearby coal-fired generation units. The quality of this old CO data is suspect based on today's QA/QC requirements but it's the only ambient CO monitoring data ever collected in eastern Montana. The site and its CO monitoring dates were:

McRae, Colstrip (30-087-0028) 1973-1975

### 2.5.5 NITROGEN DIOXIDE

### **Daniels County**

As mentioned previously in the PM section, the Department has conducted a variety of criteria pollutant monitoring in Daniels County, but this monitoring is dated since it was done as part of the Popular River special study in the 1970s. The study was intended to measure the effects of a coal-fired power plant built in Coronach, Saskatchewan, Canada approximately 5 miles north of Scobey. For the Popular River study, NO<sub>2</sub> monitoring started in 1976 and once the study ended, the Department has not collected any other air quality data in Daniels County. The quality of the NO<sub>2</sub> data is probably questionable based on today's QA/QC requirements but it provides a useful historical context of some of the earliest ambient air monitoring in eastern Montana. None of the data violated the NO<sub>2</sub> NAAQS and sampling ended in 1979. The NO<sub>2</sub> site and its dates of operation were as follows:

Scobey Border Station #1 (30-019-0001) 1976-79

# McCone County
A limited amount of criteria pollutant monitoring was conducted in McCone County in the 1970s which included NO<sub>2</sub> data collected with "bubblers". The historical 1970s data resulted from a monitoring study initiated by EPA Region 8 to gauge the potential effects of planned energy extraction and conversion facilities on the Northern Great Plains. In general, the NGPRP started in 1974 and continued though 1978. The quality of the NO<sub>2</sub> data is suspect based on today's QA/QC requirements but it provides a useful historical context of some of the earliest ambient air monitoring in eastern Montana. The TV Hill site south of the Fort Peck Reservoir was one of the original NGPRP sites which the Department assumed responsibility for in 1975. The site and its dates of operation are as follows:

NGPRP TV Hill Fort Peck (30-055-0001) 1974-78

#### **Richland County**

The air quality concerns in Richland County have traditionally centered around Oil and gas development near the city of Sidney. Sidney is located close to the west bank of the Yellowstone River and only a few miles west of the North Dakota border. In the late 1970's and early 1980's, the area experienced a robust economic upturn due to oil exploration and development in the surrounding areas of both Montana and North Dakota. Other industrial sources in the Sidney area include Montana Dakota Utilities (coal-fired power plant) and Sidney Sugars (sugar beet processing). Recently, the Department has tracked emissions from the development of oil wells in the county.

As a result of oil and gas development, the Department installed Sidney-Oil Field site (30-083-0001) monitoring site approximately 15 miles northwest of Sidney to provide ambient data on a variety of pollutants, including NO<sub>2</sub> and ozone. The Sidney site was relocated in May of 2017 to its present site which is approximately 25 Northwest of Sidney and immediately adjacent to State Highway 201. The sites AIRS/AQS codes and dates of operation are as follows:

- Sidney-201 (30-083-0002) 2017-Present
- Oil Field (30-083-0001) 2008-2017

#### **Roosevelt County**

Historically, the Department conducted a limited amount of criteria pollutant monitoring in Roosevelt County. The Department collected NO<sub>2</sub> data briefly at one site in the early 1980s. The quality of the historical NO<sub>2</sub> data may be suspect based on today's QA/QC requirements but it provides a useful historical context of some of the earliest ambient air monitoring in eastern Montana. The site and its dates of operation are as follows:

Wolf Point Airport (30-085-0002) 1975

#### **Rosebud County**

In Rosebud County, the NO<sub>2</sub> concerns have always been associated with the coalfired power generating plants in or near the small community of Colstrip. In the 1970s, EPA Region 8 initiated a monitoring study to gauge the potential effects of planned energy extraction and conversion facilities on the Northern Great Plains. The Fisher Butte site was one of the original NGPRP sites and the Department assumed responsibility for in 1975. The quality of this old NO<sub>2</sub> data is suspect based on today's QA/QC requirements but it provides a useful historical context of some of the earliest ambient air monitoring in eastern Montana. The historical sites and dates of operation were:

Fisher Butte NGPRP, Lame Deer (30-087-0003) 1975-1978

- BN, Colstrip (30-087-0027) 1974-1977
- McRae, Colstrip (30-087-0028) 1973-1977

In addition to the monitoring conducted by the Department, MPC and PPL-MT operated NO<sub>2</sub> monitoring sites around their coal-fired power plants (Colstrip Units #1-#4) at various times. The MPC Colstrip Units #1 and #2 were permitted in 1973 by the Department. In 1978, EPA issued a PSD permit for MPC's Colstrip Units #3 and #4. MPC/PPL-MT maintained an ambient air monitoring network around their power plants from the 1970s through 2001 and continues to support a tribal air monitoring program on the Northern Cheyenne Indian Reservation. The Northern Cheyenne Tribe operates an NO<sub>2</sub> monitoring network on the reservation south of Colstrip.

The Department installed a monitoring site near Birney to collect background NO<sub>2</sub> data prior to the anticipated large scale development of coal bed methane (CBM) fields in southeastern Montana. The NO<sub>2</sub> sites in Rosebud County operated by the Department, MPC/PPL-MT and the Northern Cheyenne Tribe are summarized below:

- Tongue River, Birney (30-087-0001) 2010 present
- MPC #3 Cedar Ave. Hill, Colstrip (30-087-0700) 1982-2001
- MPC #1 Highway 39 Industrial Park, Colstrip (30-087-0701) 1981-2001
- MPC #2 Ponds 5 & 6 West, Colstrip (30-087-0702) 1981-2001
- MPC #3, Colstrip (30-087-0703) 1982
- MPC #4 Hawthorne Hill, Colstrip (30-087-0704) 1977-1992
- Northern Cheyenne Morningstar (30-087-0760) 1981 present
- Northern Cheyenne Garfield Peak (30-087-0761) 1981 present
- Northern Cheyenne Badger Peak (30-087-0762) 1981 present

#### 2.5.6 OZONE

### **Powder River County**

Historically there was never any ozone data collected in this county. However, the Department installed a monitoring site near Broadus to collect background data prior to the anticipated large-scale development of CBM fields in southeastern Montana. The site is anticipated to operate for a few years collecting data on ozone, oxides of nitrogen,  $PM_{2.5}$  and  $PM_{10}$ .

Broadus – Powder River (30-075-0001) 2010 - present

#### **Richland County**

Like most of eastern Montana, ozone has not historically been monitored for in Richland County. As a result of oil and gas development in the Bakken the Department added an ozone monitor to its monitoring site located approximately 15 miles northwest of Sidney.

As a result of oil and gas development, the Department installed Sidney-Oil Field site (30-083-0001) monitoring site approximately 15 miles northwest of Sidney to provide ambient data on a variety of pollutants, including NO<sub>2</sub> and ozone. The Sidney site was relocated in May of 2017 to its present site which is approximately 25 Northwest of Sidney and immediately adjacent to State Highway 201. The sites AIRS/AQS codes and dates of operation are as follows:

- Sidney-201 (30-083-0002) 2017-Present
- Oil Field (30-083-0001) 2008-2017

#### **Roosevelt County**

Historically the Department conducted a limited amount of criteria pollutant monitoring in Roosevelt County. The Department collected ozone data briefly at one site in the early 1980s. The quality of the historical ozone data may be suspect based on today's QA/QC requirements but it provides a useful historical context of some of the earliest ambient air monitoring in eastern Montana. The site and its dates of operation are as follows:

Wolf Point Airport (30-085-0002) 1975

#### **Rosebud County** (2014 population estimate = 9,326)

Historically, the Department monitored for ozone at a few sites in Rosebud County during the 1970s and early 1980s. The BN and McRae sites at Colstrip were located near the large coal-fired power plants at Colstrip, while the Fort Howes Ranger Station site at Ashland was supported by the EPA National Exposure Research Lab as part of a national forest ozone study. The quality of this old data is suspect based on today's QA/QC requirements but it provides a useful historical context of some of the earliest ambient air monitoring in eastern Montana.

Just recently, the Department installed a monitoring site near Birney to collect background data prior to the anticipated large-scale development of CBM fields in southeastern Montana. The site is anticipated to operate for a few years collecting data on ozone, oxides of nitrogen, PM<sub>2.5</sub> and PM<sub>10</sub>. The sites and their dates of operation are:

- Birney Tongue River (30-087-0001) 2010 Present
- BN NGPRP, Colstrip (30-087-0027) 1975-1977
- McRae NGPRP, Colstrip (30-087-0028) 1973-1975
- Fort Howes Ranger Station, Ashland (30-087-0101) 1976-1983

### 2.5.7 OTHER AIR POLLUTANTS

### **Richland County**

The earliest criteria pollutant monitoring conducted by the Department in Richland County was for TSP using HiVol samplers. Department was also interested in emissions of sulfur containing compounds, such as SO<sub>2</sub> and hydrogen sulfide (H<sub>2</sub>S). Therefore in addition to the TSP sampling and sulfate analysis on the HiVol filters, the Department operated a large network of sulfation plate sites which provided a good measure of the amount of reactive sulfur compounds in the ambient air. This network consisted of the following sites in the Sidney area, as follows:

- #1 PETERSON-MORLOCK, (30-083-0011) 1982-1986
- #2 PUBLIC WELFARE OFFICE, (30-083-0012) 1982-1986
- #3 Shell Oil, (30-083-0013) 1982-1986
- #4 YELLOWSTONE RIVER BRIDGE, (30-083-0014) 1982-1984
- #5 FAIRVIEW NORTH, (30-083-0015) 1982-1984
- #6 South SIDNEY PUMPER, (30-083-0016) 1982-1984
- #7 South SIDNEY FLARE, (30-083-0017) 1982-1984
- #8 North SIDNEY, (30-083-0018) 1982-1984
- #9 RICHLAND PARK ROAD, (30-083-0019) 1982-1984
- COOKE RESIDENCE, (30-083-0020) 1984
- LUDINGTON, (30-083-0028) 1985-1986

- RIVER ROAD #1, (30-083-0029) 1985-1986
- RIVER ROAD #2, (30-083-0030) 1985-1986
- GOSSETT, (30-083-0031) 1985-86

## **Roosevelt County**

At the Fort Peck Tribe's IMPROVE protocol monitoring site (30-085-9000), in addition to the routine particulate matter measurements which started in 2002, there are a large number of other parameters being analyzed, including:

- Elemental analyses quantifying nearly all elements with atomic weights ≥11 (Na) and ≤82 (Pb)
- Ion chromatography for the anions sulfate, nitrate, nitrite, and chloride
- Thermal optical reflectance (TOR) for particulate organic and elemental carbon (OC and EC, respectively)

# **Rosebud County**

At the Northern Cheyenne Tribe's monitoring site at Badger Peak (30-087-0762), instruments for participating in the IMPROVE program were added in 2002. As a result, the usual IMPROVE measurements are conducted which includes particulate matter and a large number of other parameters, such as:

- Elemental analyses quantifying nearly all elements with atomic weights ≥11 (Na) and ≤82 (Pb)
- Ion chromatography for the anions sulfate, nitrate, nitrite, and chloride
- TOR for particulate organic and elemental carbon (OC and EC, respectively)

# **Sheridan County**

At the U.S. Fish and Wildlife Service's IMPROVE monitoring site at the Medicine Lake National Wildlife Refuge (30-091-9000), in addition to routine particulate matter measurements, there are a large number of other parameters being analyzed, including:

- Elemental analyses quantifying nearly all elements with atomic weights ≥11 (Na) and ≤82 (Pb)
- Ion chromatography for the anions sulfate, nitrate, nitrite, and chloride
- TOR for particulate organic and elemental carbon (OC and EC, respectively)

### Valley County

The only monitoring for other air pollutants in Valley County was for sulfation rate by the Fort Peck Tribes. The site and its dates of operation are as follows:

Fort Peck Tribes Lustre Oil Field (30-105-0002) 1983-1984

# 2.5.8 METEOROLOGY

### Daniels County

As mentioned in previous sections, a variety of criteria pollutant monitoring was conducted by the Department in Daniels County as part of the Popular River special study. The study was intended to measure the effects of a coal-fired power plant built in Coronach, Saskatchewan, Canada, which is approximately 5 miles north of Scobey For the Popular River study, MET monitoring started in 1979 and once the study ended, the Department has not collected any other MET data in Daniels County. The MET sites and their dates of operation were as follows:

• Scobey Border Station #1 (30-019-0001) 1979-1983

- Richardson Residence (30-019-0002) 1979
- Hanrahan Ranch (30-019-0004) 1981-1985
- Marlenee Ranch (30-019-0010) 1986-1987

## **Dawson County**

The only MET monitoring conducted by the Department in Dawson County was in Glendive back in the 1970s. The historical 1970s data resulted from a monitoring study initiated by EPA Region 8 to gauge the potential effects of planned energy extraction and conversion facilities on the Northern Great Plains. In general, the NGPRP started in 1974 and continued though 1978. The sites in Glendive were some of the original NGPRP sites which the Department assumed responsibility for in 1975. The sites and their dates of operation were:

- Burman Ranch NGPRP, Glendive (30-021-0001) 1976
- KGVN TV Tower, Lindsay (30-021-0004) 1974-1985

# **McCone County**

A limited amount of air pollutant monitoring was conducted in McCone County in the 1970s and some of the monitoring included MET parameters. The historical 1970s data resulted from a monitoring study initiated by EPA Region 8 to gauge the potential effects of planned energy extraction and conversion facilities on the Northern Great Plains. The TV Hill site south of the Fort Peck Reservoir was one of the original NGPRP sites which the Department assumed responsibility for in 1975. The site and its dates of operation are as follows:

NGPRP TV Hill Fort Peck (30-055-0001) 1978-1979

# **Phillips County**

The only MET monitoring in Phillips County was conducted by a private company which operated two gold mines approximately 50 miles southwest of Malta. The gold mining operations were in the Little Rocky Mountains near the historic ghost mining towns of Zortman and Landusky. The sites and their dates of operation were:

- Pegasus Mining Sullivan Park #3, Zortman (30-071-0003) 1990-1992
- Pegasus Mining Boneyard #4, Zortman (30-071-0004) 1990-1992
- Pegasus Mining Square Butte #7, Zortman (30-071-0008) 1990-1994

### Powder River County

The Department has conducted only limited air quality monitoring in this county. Some of the historical 1970s data resulted from a monitoring study initiated by EPA Region 8 to gauge the potential effects of planned energy extraction and conversion facilities on the Northern Great Plains. The Randall Ranch site was one of the original NGPRP sites and the Department assumed responsibility for it. Just recently, the Department installed a monitoring site near Broadus to collect background data prior to the anticipated large-scale development of CBM fields in southeastern Montana. Along with monitors for criteria pollutants, the site also includes meteorological sensors needed to collect baseline information for dispersion modeling efforts. Data collected includes: wind speed and direction, and standard deviation of horizontal wind direction, and delta temperature at 2 and 10 meters.

- Randall Ranch NGPRP Broadus (30-075-0009) 1976
- Powder River, Broadus (30-075-0001) 2010-present

### **Richland County**

Like the rest of eastern Montana, the Department has historically conducted only limited air quality monitoring in Richland County. Much of the early monitoring was conducted during the late 1970's and early 1980's when the area experienced an economic upturn due to oil exploration and development in the surrounding areas of both Montana and North Dakota. Today, a similar situation is occurring again as a result of the latest boom in the oil patch and the Department is tracking emissions from the development of oil wells in the county. As a result, the Department installed a monitoring site approximately 15 miles northwest of Sidney. Along with monitors for criteria pollutants, the site also included meteorological sensors needed to collect baseline information for dispersion modeling efforts. Data collected included: wind speed and direction, and standard deviation of horizontal wind direction, and delta temperature at 2 and 10 meters.

- Sidney-201 (30-083-0002) 2017-Present
- Oil Field (30-083-0001) 2008-2017

#### **Roosevelt County**

The most recent MET monitoring has been by the Fort Peck Tribes and not by the Department. Historically however, a limited amount of MET monitoring was conducted by the Department in Roosevelt County in the 1970s and 1980s. Some of the historical 1970s data resulted from a monitoring study initiated by EPA Region 8 to gauge the potential effects of planned energy extraction and conversion facilities on the Northern Great Plains. The Witte Well site was one of the original NGPRP sites which the Department assumed responsibility for in 1975. The quality of the historical data is suspect based on today's QA/QC requirements but it provides a useful historical context of some of the earliest ambient air monitoring in eastern Montana. The sites and their dates of operation were as follows:

- Witte Well NGPRP (30-085-0001) 1976
- Wolf Point Airport (30-085-0002) 1983-1986
- Fort Peck Tribes Popular River Valley (30-085-0008) 1985-1989
- Fort Peck Tribes Law & Order (30-085-0014) 1992-1996

#### **Rosebud County**

The Department participated in an extensive meteorological study in Rosebud County as a part of the Colstrip Diffusion Study in the mid 1970s. Wind speed and direction data was collected at several different levels and temperature-sonde equipped pilot balloons were release twice a day during this study. The study showed that nocturnal temperature inversions were frequent but seldom persistent and as a result, dispersion in the Colstrip area is generally good to excellent. In addition to the monitoring conducted by the Department, MPC and PPL-MT operated MET monitoring sites around their coal-fire power plant at Colstrip over the years. Also, PPL-MT continues to support a tribal air monitoring program on the Northern Cheyenne Indian Reservation with the MET sensors at sites in the elevated terrain south of Colstrip. Other met monitoring in the Colstrip area was conducted by a small coal-fired power plant and at the local surface coal mines.

Just recently, the Department installed a monitoring site near Birney to collect background data prior to the anticipated large-scale development of CBM fields in southeastern Montana. Along with monitors for criteria pollutants, the site also includes meteorological sensors needed to collect baseline information for dispersion modeling efforts. Data collected includes: wind speed and direction, standard deviation of horizontal wind direction, and delta temperature at 2 and 10 meters. The MET sites operated by the Department, the various companies and the Northern Cheyenne Tribe in Rosebud County are summarized below:

- Tongue River, Birney (30-087-0001) 2010 present
- Fisher Butte NGPRP, Lame Deer (30-087-0003) 1976
- BN, Colstrip (30-087-0027) 1976-1978
- McRae, Colstrip (30-087-0028) 1976
- Intersection 312 & 39, Lame Deer (30-087-0307) 1992 present
- MPC #14 MET Tower, Colstrip (30-087-0614) 1973-1992
- MPC #3 Cedar Ave. Hill, Colstrip (30-087-0700) 1982-1992
- MPC #1 Highway 39 Industrial Park, Colstrip (30-087-0701) 1981-2001
- MPC #2 Ponds 5 & 6 West, Colstrip (30-087-0702) 1981-2001
- MPC #4 Hawthorne Hill, Colstrip (30-087-0704) 1981-1992
- Peabody Big Sky #1 Mine Office, Colstrip (30-087-0722) 1989-2003
- WECO #13 Area C, Colstrip (30-087-0729) 1981-1982
- WECO #13 NE Tipple RR Loop Area A, Colstrip (30-087-0730) 1982-1987
- Peabody Big Sky #9 Upper Area B, Colstrip (30-087-0738) 1989-2003
- Northern Chevenne Morningstar (30-087-0760) 1981 present
- Northern Cheyenne Garfield Peak (30-087-0761) 1981 present
- Northern Chevenne Badger Peak (30-087-0762) 1981 present
- CELP Rosebud Energy #1, Colstrip (30-087-0763) 1989-1998

#### Valley County

The only air quality met monitoring in Valley County has been by the Fort Peck Tribes. The site and its dates of operation are as follows:

Fort Peck Tribes Lustre Oil Field (30105-0002) 1987

In addition to the MET data currently being collected by the Department at sites near Sidney, Broadus and Birney, other MET data, both 'real time' and archived, is currently available in eastern Montana from ASOS monitors operated by NOAA and the FAA.

# 3.0 FUTURE NETWORK DESIGN/TRENDS

In 1979, EPA promulgated ambient air monitoring rules which included a requirement for States to annually review their ambient air monitoring networks. The requirements are found in 40 CFR 58.10(d) and, in summary, require a State to annually review and determine if their ambient air monitoring network meets the monitoring objectives in 40 CFR Part 58. The Department's air monitoring sites meet the EPA requirements, with few exceptions, and all sites operate in conformance with EPA's QA/QC requirements and guidance for SLAMS sites. Refer to the annual ambient monitoring network plan for more information. In 2006, the federal regulations changed and states were required to produce a simpler, annual monitoring network plan and supplement the annual plan every 5 years with a more in-depth assessment of their air quality surveillance systems.

Each year, the Department conducts an annual monitoring review using a variety of information, such as:

- The latest ambient air monitoring data from the SLAMS network and industrial monitors
- Population data from the US Census and Montana economic and population data
- Climate and weather data from the National Weather Service (NWS) and Department sites
- The Department's latest annual inventory of air emissions from permitted point sources
- Traffic count data from the Montana Department of Transportation (MDT)
- Motor vehicle registration data from the Montana Department of Justice's Motor Vehicle Division (MVD)
- Dispersion modeling results
- Feedback from the local county air pollution agencies, EPA offices and the general public
- Professional opinions of the Department's air quality staff

The process of gathering information for the network review continues year-round and is formalized through the annual network review process. During this process, efforts are taken to seek input from internal and external stakeholders. The annual review includes an assessment of the ambient air monitoring network's ability to meet the following three basic objectives:

- Demonstrate compliance with NAAQS and support emissions strategy development
- Provide air quality data to general public in timely manner
- Support air quality research studies

A prime directive implemented throughout the monitoring network is assessing compliance with the federal and state standards as well as support the overarching air program in its ongoing planning processes. Additionally, the Department focus is to provide timely ambient monitoring data to support various air quality assessments. Fine particulate contiues to be a significant pollutant of concern in Montana, both during periods of wintertime inversions and wildfire events. The Department invests a great deal of resources in the collection, assessment and dissemination of air quality information for use by the Department and other state and local agencies in forecasting and health impact determinations.

In order to support the three basic objectives, ambient air monitoring networks are designed to accomplish a variety of tasks by using six general site types as follows:

- Sites located to determine the highest concentrations expected to occur in the area covered by the network
- Sites located to measure typical concentrations in areas of high population density
- Sites located to determine the impact of significant sources or source categories on air quality
- Sites located to determine general background concentration levels

- Sites located to determine the extent of regional pollutant transport among populated areas; and in support of secondary standards
- Sites located to measure air pollution impacts on visibility, vegetation damage, or other welfare-based impacts

Each monitoring site in the Montana network is designed in accordance with EPA design criteria rules and guidance as identified in the annual monitoring plan. In designing its ambient air monitoring network, the Department has focused its resources on the first two types of monitoring sites: high population and high concentrations.

A review on Montana's population profile clearly shows a continuing shift that has occurred in Montana over the last several decades with significant decreases in the eastern-most counties and a large increase in most of the counties in the western Montana. Acutal current as well as ongoing future projections indicate a continuance with this trend. The majority of ambient air monitoring sites operated in Montana from the 1970s up to the present were/are located in western Montana demonstrating the Department's success in operating ambient air monitoring sites in locations of high pollutant concentrations and high population density. A map of the current air monitoring sites can be seen in Figure E-6. For more information on the current and historical ambient air monitoring sites in Montana, please refer to Appendices A and B, respectively.

The information presented in Figures E-3 and E-4 helps explain why the highest concentrations of air pollutants in Montana are generally found in the counties located within western Montana. Figure E-3 is a color-shaded relief map of wind speeds at 50 meters across Montana. The map shows the low speeds (< 5 meters/second) found in most locations within Western Montana as compared to the much higher wind speeds commonly experienced in the eastern half of the state. The difference in wind speeds between Western Montana and the rest of the state accounts for much of the difference in air pollutant concentrations between Western Montanaand the rest of the state. Figure E-5 is a color-shaded relief map of terrain elevations in Montana and it shows the high mountain – deep valley terrain which is almost exclusively located within the area covered by Western Montana. In that part of Montana, containing ~ 80% of the population, most people live in mountain valley communities which are poorly ventilated. Unlike the eastern part of the state which experiences almost consistent surface winds, the rugged terrain of western Montana tends to deflect winds upward and allows air to stagnate in the valleys. The air stagnation problem worsens in the winter with cold, dense air trapped in the valley with warmer air above. The cloud layer that forms at the temperature transition zone during these inversions blocks solar input into the valley creating a stable, stagnant condition that can persist for days until blown out by a substantial wind. With that background information on Montana's population, topography and climate in place, a review of some ambient air monitoring data to helps to explain the Department's potential ambient air monitoring plans for the future.

Appendix C contains a number of graphs summarizing the monitoring results for various criteria air pollutants in Montana with comparison to the form of the specific NAAQS standard. Most of the data has been collected at SLAMS sites operated by the Department or local county air pollution control programs, but some of the data was generated by other entities.

Figures C-1 through C-6 presents information on the most ubiquitous air pollutant in Montana – particulate matter, specifically PM<sub>2.5</sub> and PM<sub>10</sub>. When reviewing the data with the impacts of Wildfires removed, all sites in Montana are currently showing attainment with all the PM standards. However, when including Wildfire impacts, it is clear that much of impacted air quality expericienced in Montana is largely due to Wildfires.

The data shown in Figure C10 presents the results of the latest  $O_3$  monitoring in Montana, and the Figure 11 does likewise for the most recent  $NO_2$  monitoring. The  $O_3$  data represents the Design Values of the 8-hour average concentration recorded annually at eight different sites. All of the results are well within compliance with the current 8-hour NAAQS of 0.070 ppm.

The NO<sub>2</sub> data in Figure C-11 represents the Design Values for the 1-hour average concentration recorded annually at nine different sites with three sites being operated by the Northern Cheyenne Tribe. All of the results are well within compliance with the 1-hour NAAQS of 100 ppb.

Based on this 5-year assessment of the Montana ambient air monitoring network, along with evalutions within the 2020 Annual Monitoring Network Plan, the Department has determined the current network meets the monitoring objectives defined with 40 CFR 58, and no new sites or discontinuation of existing sites are necessary, further that the currently the network is able to sufficiently characterize air quality in areas of Montana. Through this assessment the Department had identified several potential network enhancements and development of proposed air monitoring strategies, as follows:

- Upgrade the technology and automation of PM<sub>2.5</sub> monitors in order to more effectively utilize limited resources and provide stakeholders greater access to information in real-time. This includes updating the current platform used to display monitoring to a GIS based dashboard. Currently the Department utilizes the Today's Air site to display real-time PM2.5 concentrations along with corresponding health categorizations. The Department intends to transition this site a coppresenisve GIS platform which includes additional monitoring parameters with enhanced features which better able characterization of air quality for more areas of the state. This platform will also provide greater access to historic data and support various improved data analysis.
- Increase the spatial distribution of air quality monitoring locations to provide a more refined characterization of ambient profiles across the state. Focus will be on fine particulate pollution in and around population centers. This includes placement of ambient monitors in locations which currently lack the availability of community-based air quality data as well as inclusion of multiple monitors in larger popultions centers to improve relosution and further localization of air quality data that is more representative. Discussion and decision related to placement of additional monitors will address the ability to characterize AQ for areas with relatively high populations of susceptible individuals.
- Continue with research activities in the evaluation of O<sub>3</sub> tranport and formation as well as implications of O<sub>3</sub> precurers.
- Continue to monitor and evaluate the SO<sub>2</sub>, NO<sub>2</sub> and O<sub>3</sub> data from the sites in eastern Montana and considering the results in relation to oil and gas activity.

As always, implementation of any ambient air monitoring strategy will be balanced between the competing interests of statuary requirements, federal and state air quality policies, and the availability of human and monetary resources. In any case, the Department will continue its long-standing practice of considering all options during its annual and 5-year reviews of Montana's ambient air monitoring network.

# 4.0 GLOSSARY

Abatement: The reduction or elimination of pollution.

Acceptable Daily Intake (ADI): The highest daily amount of a substance that may be consumed over a lifetime without adverse effects.

Acid Deposition: A comprehensive term for the various ways acidic compounds precipitate from the atmosphere and deposit onto surfaces. It can include: 1) wet deposition by means of acid rain, fog, and snow; and 2) dry deposition of acidic particles (aerosols).

Acid Rain: Rain which is especially acidic (pH <5.2). Principal components of acid rain typically include nitric and sulfuric acid. These may be formed by the combination of nitrogen and sulfur oxides with water vapor in the atmosphere.

Acidification: The process by which rivers, lakes, rain and other natural features become affected by excess acid. For example, nitrogen dioxide may form toxic organic nitrates, which contribute to acid rain and the acidification of ground and surface water.

Acute Exposure: One or a series of short-term exposures generally lasting less than 24 hours.

Acute Health Effect: A health effect that occurs over a relatively short period of time (e.g., minutes or hours). The term is used to describe brief exposures and effects which appear promptly after exposure.

Add-On Control Device: An air pollution control device such as carbon absorber or incinerator that reduces the pollution in exhaust gas. The control device usually does not affect the process being controlled and thus is "add-on" technology, as opposed to a scheme to control pollution through altering the basic process itself. See also pollution prevention.

Adsorber: An emissions control device that removes VOCs from a gas stream as a result of the gas attaching (adsorbing) onto a solid matrix such as activated carbon.

Adverse Health Effect: A health effect from exposure to air contaminants that may range from relatively mild temporary conditions, such as eye or throat irritation, shortness of breath, or headaches to permanent and serious conditions, such as birth defects, cancer or damage to lungs, nerves, liver, heart, or other organs.

Aerosol: Particles of solid or liquid matter that can remain suspended in air from a few minutes to many months depending on the particle size and weight.

Afterburner: An air pollution abatement device that removes undesirable organic gases through incineration.

Agricultural Burning: The intentional use of fire for vegetation management in areas such as agricultural fields, orchards, rangelands, and forests.

Air: So called "pure" air is a mixture of gases containing about 78 percent nitrogen; 21 percent oxygen; less than 1 percent of carbon dioxide, argon, and other gases; and varying amounts of water vapor. (See also ambient air.)

Air Monitoring: Sampling for and measuring of pollutants present in the atmosphere.

Air Pollutants: Amounts of foreign and/or natural substances occurring in the atmosphere that may result in adverse effects to humans, animals, vegetation, and/or materials. See also air pollution.

Air Pollution: The degradation of air quality resulting from unwanted chemicals or other materials in the air. (See also air pollutants.)

Air Quality Index (AQI): A numerical index used for reporting severity of air pollution levels to the public. It replaces the formerly used Pollutant Standards Index (PSI). Like the PSI, the AQI incorporates five criteria pollutants -- ozone, particulate matter, carbon monoxide, sulfur dioxide, and nitrogen dioxide -- into a single index. The new index also incorporates the 8-hour ozone standard and the 24-hour PM<sub>2.5</sub> standard into the index calculation. AQI levels range from 0 (Good air quality) to 500 (Hazardous air quality). The higher the AQI, the higher the level of pollutants and the greater the likelihood of health effects. The AQI incorporates an additional index category -- unhealthy for sensitive groups -- that ranges from 101 to 150. In addition, the AQI comes with more detailed cautions.

Air Quality Model: A mathematical relationship between emissions and air quality which simulates on a computer the transport, dispersion, and transformation of compounds emitted into the air.

Airshed: A land area with generally similar meteorological and geographic conditions throughout. The term denotes a geographical area that shares the same air because of topography, meteorology, and climate. To the extent possible, airshed boundaries are defined along political boundary lines. Montana is currently divided into 12 airsheds.

Air Toxics: Air toxics include any air pollutant for which a National Ambient Air Quality Standard does not exist (i.e., excluding ozone, carbon monoxide, PM<sub>10</sub>, sulfur dioxide, and nitrogen oxide) that may reasonably be anticipated to cause cancer, developmental effects, reproductive dysfunctions, neurological disorders, heritable gene mutations, or other serious or irreversible chronic or acute health effects in humans.

Alternative Fuels: Fuels such as methanol, ethanol, natural gas, and liquid petroleum gas that are cleaner burning and reduce emissions of various air pollutants. These fuels may be used in place of less clean fuels for powering motor vehicles.

Ambient Air: The portion of the atmosphere, external to buildings, to which the public has access.

Ambient Air Monitoring: operations performed to obtain, use, or report information pertaining to ambient air measurements, processes, and conditions.

Ambient Air Quality: A physical and chemical measure of pollutant concentrations in the ambient atmosphere. The quality is usually determined over a specific time period.

Ambient Air Quality Standards (AAQS): Health- and welfare-based standards for outdoor air which identify the maximum acceptable average concentrations of air pollutants during a specified period of time. (See also MAAQS and NAAQS and Criteria Air Pollutant.)

American Society for Testing and Materials (ASTM): A nonprofit organization that provides a forum for producers, consumers, and representatives of government and industry, to write laboratory test standards for materials, products, systems, and services. ASTM publishes standard test methods, specifications, practices, guides, classifications, and terminology.

Ammonia (NH3): A pungent colorless gaseous compound of nitrogen and hydrogen that is very soluble in water and can easily be condensed into a liquid by cold and pressure. Ammonia reacts with NOx to form ammonium nitrate -- a major PM<sub>2.5</sub> component in the Western United States.

Area Sources: Those sources for which a methodology is used to estimate emissions. This can include area-wide, mobile and natural sources, and also groups of stationary sources (such as dry cleaners and gas stations). The federal air toxics program defines a source that emits less than 10 tons per year of a single hazardous air pollutant (HAP) or 25 tons per year of all HAPs as an area source.

Area-Wide Sources: Sources of pollution where the emissions are spread over a wide area, such as consumer products, fireplaces, road dust and farming operations. Area-wide sources do not include mobile sources or stationary sources.

Aromatic: A type of hydrocarbon, such as benzene or toluene. Some aromatics are toxic.

Asbestos: A mineral fiber that can pollute air or water and cause cancer or asbestosis when inhaled. The U.S. EPA has banned or severely restricted its use in manufacturing and construction.

Asthma: A chronic inflammatory disorder of the lungs characterized by wheezing, breathlessness, chest tightness, and cough.

Atmosphere: The gaseous mass or envelope of air surrounding the Earth. From ground-level up, the atmosphere is further subdivided into the troposphere, stratosphere, mesosphere, and the thermosphere.

Attainment Area: A geographical area identified to have air quality as good as, or better than, the national and/or Montana ambient air quality standards (NAAQS/MAAQS). An area may be an attainment area for one pollutant and a nonattainment area for others.

Baghouse: An air pollution control device that traps particulates by forcing gas streams through large permeable bags usually made of glass fibers.

Banking: A provision in air permit regulations that allows a facility to accumulate credits for reducing emissions beyond regulatory limits (emission reduction credits) and then use or sell those credits at a later date.

Best Available Control Measure (BACM): A term used to describe the "best" measures (according to U.S. EPA guidance) for controlling small or dispersed sources of particulate matter and other emissions from sources such as roadway dust, woodstoves, and open burning.

Best Available Control Technology (BACT): An emission limit based on the maximum degree of reduction for each pollutant regulated by the Clean Air Act. The permitting authority, taking into account energy, environmental and economic impacts determines what emission limits facilities should achieve in an attainment area on a case-by-case basis by considering production processes, available methods, systems, and techniques.

Biogenic Source: Biological sources such as plants and animals that emit air pollutants such as volatile organic compounds. Examples of biogenic sources include animal management operations and softwood tree forests. (See also natural sources.)

Burn Day: A day that is not officially determined by meteorologists and air quality managers to be a no-burn day. Burn days vary by airshed on any given day.

British Thermal Units (BTUs): The amount of heat necessary to increase the temperature of one pound of water one degree Fahrenheit at a specified temperature.

Cancer: A group of diseases characterized by uncontrolled invasive growth of body cells leading to the formation of malignant tumors that tend to grow rapidly and spread (i.e., metastasize).

Carbon Dioxide (CO<sub>2</sub>): A colorless, odorless gas that occurs naturally in the Earth's atmosphere. Significant quantities are also emitted into the air by fossil fuel combustion.

Carbon Monoxide (CO): A colorless, odorless gas resulting from the incomplete combustion of hydrocarbon fuels. CO interferes with the blood's ability to carry oxygen to the body's tissues and results in numerous adverse health effects. Over 80 percent of the CO emitted in urban areas is contributed by motor vehicles. CO is a criteria air pollutant.

Carcinogen: A cancer-causing substance. (See also cancer.)

Cardiovascular: Pertaining to or involving the heart and blood vessels.

CAS Registry Number: The Chemical Abstracts Service Registry Number (CAS) is a numeric designation assigned by the American Chemical Society's Chemical Abstract Service and uniquely identifies a specific compound. This entry allows one to conclusively identify a material regardless of the name or naming system used.

Catalyst: A substance that can increase or decrease the rate of a chemical reaction between the other chemical species without being consumed in the process.

Catalytic Converter: A motor vehicle pollution control device designed to reduce emissions such as oxides of nitrogen, hydrocarbons, and carbon monoxide.

Chemical Mass Balance: A modeling technique to identify and quantify the emissions sources of particulate matter present in an area of interest.

Chlorofluorocarbons (CFCs): Any of a number of substances consisting of chlorine, fluorine, and carbon. CFCs are used for refrigeration, foam packaging, solvents, and propellants.

Chronic Exposure: Long-term exposure, usually lasting one year to a lifetime.

Chronic Health Effect: A health effect that occurs over a relatively long period of time (e.g., months or years). (See also acute health effect.)

Clean Air Act: A law enacted to protect and enhance air quality resources, and promote public health and welfare. See Federal and Montana Clean Air Acts.

Coating: A layer of any substance such as paint, lacquer, or varnish applied over a surface for protection.

Coefficient of Haze (COH): A measurement of the quantity of dust and smoke in the atmosphere in a theoretical 1,000 linear feet of air. A COH of less than three is considered clean air and more than five is of some concern. COH readings of 20 or more can occur in urban areas.

Combustion: The act or instance of burning some type of fuel such as gasoline to produce energy. Combustion is typically the process that powers automobile engines and power plant generators.

Compressed Natural Gas (CNG): See alternative fuels.

Conformity: A demonstration of whether a federally-supported activity is consistent with the State Implementation Plan (SIP) -- per Section 176 (c) of the Clean Air Act. Transportation conformity refers to plans, programs, and projects approved or funded by the Federal Highway Administration or the Federal Transit Administration. General conformity refers to projects approved or funded by other federal agencies.

Consumer Products: Products such as hairspray, detergents, cleaning compounds, polishes, lawn and garden products, personal care products, and automotive specialty products which are part of our everyday lives and, through consumer use, may produce volatile organic air emissions which contribute to air pollution.

Continuous Emission Monitor (CEM): A type of air emission monitoring system installed to operate continuously inside of a smokestack or other emission source.

Continuous Sampling Device: An air analyzer that measures air quality components continuously. (See also Integrated Sampling Device.)

Control Techniques Guidelines (CTG): Guidance documents issued by U.S. EPA that define reasonably available control technology (RACT) to be applied to existing facilities that emit excessive quantities of air pollutants; they contain information both on the economic and technological feasibility of available techniques.

Cost-Effectiveness: The cost of an emission control measure assessed in terms of dollars-perpound, or dollars-per-ton, of air emissions reduced.

Criteria Air Pollutant: An air pollutant for which acceptable levels of exposure can be determined and for which an ambient air quality standard has been set. Examples include: ozone, carbon monoxide, nitrogen dioxide, sulfur dioxide, and PM<sub>10</sub> and PM<sub>2.5</sub>. The term "criteria air pollutants" derives from the requirement that the U.S. EPA must describe the characteristics and potential health and welfare effects of these pollutants. The U.S. EPA periodically review new scientific data and may propose revisions to the standards as a result.

Cyclone: An air pollution control device that removes larger particles -- generally greater than one micron -- from an air stream through centrifugal force.

Deciview: A measurement of visibility. One deciview represents the minimal perceptible change in visibility to the human eye.

Degreaser: Equipment that removes grease, dirt, or unwanted materials from any part or product. Degreasers typically use aqueous or nonaqueous solvents, as liquid baths or condensing vapors, to remove such material.

Deposit Control Additives: Substances added to motor vehicle fuel to reduce and prevent deposits in the fuel delivery system and engine intake valves.

Design Value: The pollutant concentration used by air quality managers as the basis for determining attainment of an air quality standard, generally by using an air quality model. The design value may or may not be the same as the designation value.

Designation Value: The pollutant concentration used by air quality managers for designating attainment status of an air district with respect to the state and federal ambient air quality standards. Generally, the designation value is the highest concentration that remains after excluding certain qualifying values. For a specific pollutant, the designation value for the state and federal standards may not be the same.

Diesel Engine: A type of internal combustion engine that uses low-volatility petroleum fuel and fuel injectors and initiates combustion using compression ignition (as opposed to spark ignition that is used with gasoline engines).

Dispersion: The action of the atmosphere that mixes an ambient air pollutant, thereby reducing the concentration.

Dispersion Model: See air quality simulation model above.

Dose: The amount of a pollutant that is absorbed. A level of exposure which is a function of a pollutant's concentration, the length of time a subject is exposed, and the amount of the pollutant that is absorbed. The concentration of the pollutant and the length of time that the subject is exposed to that pollutant determine dose.

Dose-Response: The relationship between the dose of a pollutant and the response (or effect) it produces on a biological system.

Dust: Solid particulate matter that can become airborne.

Electric Vehicle: A motor vehicle that uses an electric motor as the basis of its operation. Such vehicles emit virtually no air pollutants.

Electrostatic Precipitator (ESP): An air pollution control device that removes particulate matter from an air stream by imparting an electrical charge to the particles for mechanical collection at an electrode. For more information, please see our associated training class on this subject.

Emission Factor: For stationary sources, the relationship between the amount of pollution produced and the amount of raw material processed or burned. For mobile sources, the relationship between the amount of pollution produced and the number of vehicle miles traveled. By using the emission factor of a pollutant and specific data regarding quantities of materials used by a given source, it is possible to compute emissions for the source. This approach is used in preparing an emissions inventory.

Emission Inventory: An estimate of the amount of pollutants emitted into the atmosphere from major mobile, stationary, area-wide, and natural source categories over a specific period of time such as a day or a year.

Emission Offsets (also known as Emissions Trading): A rule-making concept whereby approval of a new or modified stationary source of air pollution is conditional on the reduction of emissions from other existing stationary sources of air pollution. These reductions are required in addition to reductions required by best available control technology.

Emission Rate: The weight of a pollutant emitted per unit of time (e.g., tons/year).

Emission Standard: The maximum amount of a pollutant that is allowed to be discharged from a polluting source such as an automobile or smoke stack.

Energy Content: The amount of potential energy available for doing work. For example, the amount of energy in fuel available for powering a motor vehicle.

Environmental Justice: The fair treatment of people of all races and incomes with respect to development, implementation, and enforcement of environmental laws, regulations, and policies.

Environmental Tobacco Smoke: Primarily a combination of sidestream smoke from the burning end of a cigarette, pipe or cigar, and exhaled mainstream smoke from the smoker. Other components include smoke emitted at the mouthpiece during puff drawing.

Epidemiology: The study of the occurrence and distribution of disease within a population.

Ethanol: Ethyl-alcohol, a volatile alcohol containing two carbon groups (CH3CH2OH). For fuel use, ethanol is produced by fermentation of corn or other plant products.

Evaporative Emissions: Emissions from evaporating gasoline, which can occur during vehicle refueling, vehicle operation, and even when the vehicle is parked.

Evaporative emissions can account for two-thirds of the hydrocarbon emissions from gasolinefueled vehicles on hot summer days.

Exhaust Gas Recirculation (EGR): An emission control method that involves recirculating exhaust gases from an engine back into the intake and combustion chambers. This lowers combustion temperatures and reduces NOx. (See also nitrogen oxides.)

Exceedance: A measured level of an air pollutant higher than the national or state ambient air quality standards. (See also NAAQS and MAAQS.)

Exposure: The concentration of the pollutant in the air multiplied by the population exposed to that concentration over a specified time period.

Exposure Assessment: Measurement or estimation of the magnitude, frequency, duration and route of exposure to a substance for the populations of interest.

Federal Clean Air Act (FCAA): A federal law passed in 1970 and amended in 1974, 1977 and 1990 which forms the basis for the national air pollution control effort. Basic elements of the act include national ambient air quality standards for major air pollutants, mobile and stationary control measures, air toxics standards, acid rain control measures, and enforcement provisions.

Federal Implementation Plan (FIP): In the absence of an approved State Implementation Plan (SIP), a plan prepared by the U.S. EPA which provides measures that nonattainment areas must take to meet the requirements of the Federal Clean Air Act.

Flexible Fuel Vehicle (FFV): Vehicles that can use a combination of fuels such as alcohol fuel and unleaded gasoline.

Fly Ash: Air-borne solid particles that result from the burning of coal and other solid fuel.

Fossil Fuels: Fuels such as coal, oil, and natural gas; so-called because they are the remains of ancient plant and animal life.

Fugitive Dust: Dust particles that are introduced into the air through certain activities such as soil cultivation, or vehicles operating on open fields or dirt roadways; a subset of fugitive emissions.

Fugitive Emissions: Emissions not caught by a capture system which are often due to equipment leaks, evaporative processes and windblown disturbances.

Fume: Solid particles less than 1 micron in diameter formed as vapors condense, or as chemical reactions take place.

Furnace: A combustion chamber; an enclosed structure in which fuel is burned to heat air or material.

Gas Turbine: An engine that uses a compressor to draw air into the engine and compress it. Fuel is added to the air and combusted in a combustor. Hot combustion gases exiting the engine turn a turbine which also turns the compressor. The engine's power output can be delivered from the compressor or turbine side of the engine.

Gasoline Volatility: The evaporative properties of gasoline. Gasoline vapor is a volatile organic compound. (See also Reid Vapor Pressure.)

Global Warming: An increase in the temperature of the Earth's troposphere. Global warming has occurred in the past as a result of natural influences, but the term is most often used to refer to the warming predicted by computer models to occur as a result of increased emissions of greenhouse gases.

Greenhouse Effect: The warming effect of the Earth's atmosphere. Light energy from the sun which passes through the Earth's atmosphere is absorbed by the Earth's surface and re-radiated into the atmosphere as heat energy. The heat energy is then trapped by the atmosphere, creating a situation similar to that which occurs in a car with its windows rolled up. A number of scientists believe that the emission of CO2 and other gases into the atmosphere may increase the greenhouse effect and contribute to global warming.

Greenhouse Gases: Atmospheric gases such as carbon dioxide, methane, chlorofluorocarbons, nitrous oxide, ozone, and water vapor that slow the passage of re-radiated heat through the Earth's atmosphere.

Hazardous Air Pollutant (HAP): An air pollutant listed under section 112 (b) of the federal Clean Air Act as particularly hazardous to health. Emission sources of hazardous air pollutants are identified by U.S. EPA, and emission standards are set accordingly.

Haze (Hazy): A phenomenon that results in reduced visibility due to the scattering of light caused by aerosols. Haze is caused in large part by man-made air pollutants.

Health-Based Standard (Primary Standard): A dosage of air pollution scientifically determined to protect against human health effects such as asthma, emphysema, and cancer.

Health Risk Assessment (HRA): A document that identifies the risks and quantities of possible adverse health effects that may result from exposure to emissions of toxic air contaminants. A health risk assessment cannot predict specific health effects; it only describes the increased possibility of adverse health effects based on the best scientific information available.

Hybrid Electric Vehicle (HEV): Hybrid electric motor vehicles may operate using both electric and gasoline-powered motors. Emissions from hybrid electric motor vehicles are also substantially lower than conventionally powered motor vehicles.

Hydrocarbons: Compounds composed of carbon and hydrogen atoms.

Hydrocarbons: Compounds containing various combinations of hydrogen and carbon atoms. They may be emitted into the air by natural sources (e.g., trees) and as a result of fossil and vegetative fuel combustion, fuel volatilization, and solvent use. Hydrocarbons are a major contributor to smog.

Hydrogen Sulfide (H2S): A colorless, flammable, poisonous compound having a characteristic rotten-egg odor. It is used in industrial processes and may be emitted into the air.

Incineration: The act of burning a material to ashes.

Individual Cancer Risk: The probability, expressed as chances in a million, that a person experiencing 70 years of continuous area-wide outdoor exposure to a toxic air contaminant will develop cancer.

Indoor Air Pollution: Air pollutants that occur within buildings or other enclosed spaces, as opposed to those occurring in outdoor or ambient air. Some examples of indoor air pollutants are nitrogen oxides, smoke, asbestos, formaldehyde, and carbon monoxide.

Industrial Source: Any of a large number of sources -- such as manufacturing operations, oil and gas refineries, food processing plants, and energy generating facilities -- that emit substances into the atmosphere.

Inert Gas: A gas that does not react with the substances coming in contact with it.

Inspection and Maintenance Program: A motor vehicle inspection program implemented as part of a local air pollution control plan. The purpose of an I&M is to reduce emissions by identifying vehicles in need of maintenance and to assure the effectiveness of their emission control systems on a periodic basis.

Integrated Sampling Device: An air sampling device that allows estimation of air quality components over a period of time through laboratory analysis of the sampler's medium.

Internal Combustion Engine: An engine in which both the heat energy and the ensuing mechanical energy are produced inside the engine; includes gas turbines, spark ignition gas, and compression ignition diesel engines.

Inversion: A meteorological condition in which the temperature of the atmosphere rises with increased elevation instead of falling, creating a stagnant layer of air near the ground.

Lead (Pb): A gray-white metal that is soft, malleable, ductile, and resistant to corrosion. Sources of lead resulting in concentrations in the air include industrial sources and crustal weathering of soils followed by fugitive dust emissions. Health effects from exposure to lead include brain and kidney damage and learning disabilities. Lead is the only substance which is currently listed as both a criteria air pollutant and a toxic air contaminant.

Light-Duty Vehicle (LDV): Any motor vehicle with a gross vehicle weight of 6000 pounds or less.

Limit of Detection (LOD): The lowest concentration of a substance that can reliably be measured.

Liquefied Natural Gas (LNG): See Alternative Fuels.

Liquefied Petroleum Gas (LPG): See Alternative Fuels.

Lowest Achievable Emission Rate (LAER): A requirement applying to proposed new or modified major stationary sources of pollution in nonattainment areas. LAER means the "rate of emissions that reflect the most stringent emission limitation contained in the SIP of any state for such class or category of source or the most stringent emission limitation which is achieved in practice...whichever is more stringent."

Low NOx Burners: One of several combustion technologies used to reduce emissions of nitrogen oxides.

Major Source: A stationary facility that emits a regulated pollutant in an amount exceeding the threshold level depending on the location of the facility and attainment with regard to air quality status. (See Source.)

Maximum Achievable Control Technology (MACT): Federal emissions limitations based on the best demonstrated control technology or practices in similar sources to be applied to major sources emitting one or more federal hazardous air pollutants.

### Mean: Average.

Median: The middle value in a population distribution, above and below which lie an equal number of individual values; midpoint.

Melting Point: The temperature at which a solid becomes a liquid. At this temperature, the solid and the liquid have the same vapor pressure.

Mesosphere: The layer of the Earth's atmosphere above the stratosphere and below the thermosphere. It is between 35 and 60 miles from the Earth.

Methyl Tertiary Butyl Ether (MTBE): An ether compound added to gasoline to provide oxygen and enhance complete combustion.

Meteorological Conditions: Atmospheric conditions such as wind speed, wind direction, temperature, and atmospheric stability (mixing of the air).

Miscible: Capable of being mixed with other substances.

Micron: Also referred to as a micrometer, a micron is a metric unit of measure equal to one millionth of a meter. This unit is often used for describing sizes of airborne particles.

Mobile Sources: Sources of air pollution such as automobiles, motorcycles, trucks, off-road vehicles, boats, and airplanes. (See also stationary sources).

Monitoring: The periodic or continuous sampling and analysis of air pollutants in ambient air or from individual pollution sources.

Montana Ambient Air Quality Standards (MAAQS): Minimum standards set by the Montana Board of Environmental Review for air pollutants, including criteria air pollutants, which must be met throughout Montana.

Montana Board of Environmental Review: Seven members, appointed by the Governor, who are representative of the geographic areas of the state. The membership must include persons who have expertise or backgrounds in the following areas: law, hydrology, local government planning, and environmental sciences. One of the members must be either a county health officer or a medical doctor. The Board is both a quasi-legislative and quasi-judicial board. Its duties include rulemaking and determining appeals of Department decisions.

Montana Clean Air Act (MCAA): A Montana law passed in 1968 which provides the basis for air quality planning and regulation independent of federal regulations. A major element of the Act is the requirement that new sources of air pollution obtain permits.

Montana Department of Environmental Quality (DEQ): The Department within the State of Montana government that regulates pollution to the air, water, and land.

Montana Department of Health and Environmental Sciences (MDHES): Created by the Executive Reorganization Act of 1971, which also established the Board of Health and Environmental Sciences (predecessor of the Montana Board of Environmental Review) as a separate, quasijudicial body that concurs (or not) in issuance of certain licenses, permits, variances, etc. The Board may also adopt rules, regulations, and standards. The Board consists of seven members, appointed by the Governor.

Montana Environmental Policy Act (MEPA): A Montana law passed in 1971 that sets forth a process for public agencies to make informed decisions on discretionary project approvals. The process aids decision makers to determine whether any environmental impacts are associated with a proposed project. In MEPA's innovative provision for environmental impact statements on "major actions of state government significantly affecting the quality of the human environment,", MEPA significantly expanded the public right to participate in the decisions of government. Such impact statements were in effect deeply conservative provisions requiring thoughtful, informed, and deliberate consideration of the consequences and impacts of state actions. Simply expressed, they mandated, "Look before you leap."

Morbidity: Rate of disease incidence.

Mortality: Death rate.

Multimedia Exposure: Exposure to a toxic substance from multiple pathways such as air, water, soil, food, and breast milk.

Mutagenic: The ability of a chemical or physical agent to produce heritable changes in the DNA of living cells.

National Ambient Air Quality Standards (NAAQS): Standards established by the United States EPA that must be meet in the outdoor air throughout the country. There are two types of NAAQS. Primary standards set limits to protect public health and secondary standards set limits to protect public welfare.

National Emission Standards of Hazardous Air Pollution (NESHAP): Federal standards developed by industrial source categories that limit hazardous air pollutant emissions.

Natural Sources: Non-manmade emission sources, including biological and geological sources, wildfires, and windblown dust.

New Source Performance Standard (NSPS): Federal standards developed for industrial source categories to limit criteria air pollutant emissions.

New Source Review (NSR): A Clean Air Act requirement that State Implementation Plans must include a permit review, which applies to the construction and operation of new and modified stationary sources in nonattainment areas, to ensure attainment of national ambient air quality standards. The two major requirements of NSR are Best Available Control Technology and Emission Offsets.

Nitric Oxide (NO): Precursor of ozone, NO2, and nitrate; nitric oxide is usually emitted from combustion processes. Nitric oxide is converted to nitrogen dioxide (NO2) in the atmosphere, and then becomes involved in the photochemical processes and / or particulate formation. See Nitrogen Oxides.

Nitrogen Oxides (Oxides of Nitrogen, NOx): A general term pertaining to compounds of nitric oxide (NO), nitrogen dioxide (NO2) and other oxides of nitrogen. Nitrogen oxides are typically created during combustion processes, and are major contributors to smog formation and acid deposition. NO<sub>2</sub> is a criteria air pollutant, and may result in numerous adverse health effects.

Nonattainment Area: A geographic area defined by EPA as not meeting the NAAQS for a given pollutant. A single geographic area may have acceptable levels of one criteria air pollutant, but unacceptable levels of other criteria air pollutants.

Non-Methane Hydrocarbon (NMHC): The sum of all hydrocarbon air pollutants except methane. NMHCs are significant precursors to ozone formation.

Non-Methane Organic Gas (NMOG): The sum of non-methane hydrocarbons and other organic gases such as aldehydes, ketones and ethers.

Non-Point Sources: Diffuse pollution sources that are not recognized to have a single point of origin.

Non-Road Emissions: Pollutants emitted by a variety of non-road sources such as farm and construction equipment, gasoline-powered lawn and garden equipment, and power boats and outboard motors.

Opacity: The amount of light obscured by particle pollution in the atmosphere. Opacity is used as an indicator of changes in performance of particulate control systems.

Organic Compounds: A large group of chemical compounds containing mainly carbon, hydrogen, nitrogen, and oxygen. All living organisms are made up of organic compounds.

Outdoor wood fired hydronic heaters (OWHH): Heating devices that are typically located outside the buildings in small sheds with short smokestacks. Typically, OWHH burn wood to heat liquid (water or water-antifreeze) which is piped to occupied buildings such as homes, barns and greenhouses to provide heat and hot water. However, OWHH may also be located indoors and burn other biomass (such as corn or wood pellets) for fuel.

Oxidant: A substance that brings about oxidation in other substances. Oxidizing agents (oxidants) contain atoms that have suffered electron loss. In oxidizing other substances, these atoms gain electrons. Ozone, which is a primary component of smog, is an example of an oxidant.

Oxidation: The chemical reaction of a substance with oxygen or a reaction in which the atoms in an element lose electrons and its valence is correspondingly increased.

Oxygenate: An organic molecule that contains oxygen. Oxygenates are typically ethers and alcohols, e.g., Methyl Tertiary Butyl Ether (MTBE).

Oxygenated Fuel (oxyfuel): A special gasoline blend containing additional oxygen to promote more complete combustion under cold conditions as compared to regular gasoline. More complete combustion results in a reduction of carbon monoxide and particulates. In some parts of the country, carbon monoxide released from cars starting up in cold weather is a major contribution to air pollution.

Ozone (O<sub>3</sub>): A strong smelling, pale blue, reactive toxic chemical gas consisting of three oxygen atoms. It is a product of the photochemical process involving the sun's energy and ozone precursors, such as hydrocarbons and oxides of nitrogen. Ozone exists in the upper atmosphere ozone layer (stratospheric ozone) as well as at the Earth's surface in the troposphere (ozone). Ozone in the troposphere causes numerous adverse health effects and is a criteria air pollutant. It is a major component of smog.

Ozone Depletion: The reduction in the stratospheric ozone layer. Stratospheric ozone shields the Earth from ultraviolet radiation. The breakdown of certain chlorine and / or bromine-containing compounds that catalytically destroy ozone molecules in the stratosphere can cause a reduction in the ozone layer.

Ozone Layer: A layer of ozone in the lower portion of the stratosphere -- 12 to 15 miles above the Earth's surface -- which helps to filter out harmful ultraviolet rays from the sun. It may be contrasted with the ozone component of photochemical smog near the Earth's surface which is harmful.

Ozone Precursors: Chemicals such as non-methane hydrocarbons and oxides of nitrogen, occurring either naturally or as a result of human activities, which contribute to the formation of ozone, a major component of smog.

Particles: Any solid or liquid matter larger than a molecule (less than 0.0002 micron diameter). It is composed of settleable matter (which will settle as dust within a reasonable period of time) and suspended matter (which remains suspended in the atmosphere until washed out by precipitation, deposited by impaction, or some other process).

Particulate Matter (PM): Finely divided solids or liquids ranging in size from less than 0.1 micron to 50 microns in aerodynamic diameter. Gasses can form particles in the atmosphere through chemical reactions.

Permit: Written authorization from a government agency (e.g., MT DEQ) that allows for the construction and/or operation of an air pollution generating facility or its equipment within certain specified limits.

Peroxyacytal Nitrate: A group of compounds formed from the photochemical reactions of nitrogen and organic compounds. PANs are components of smog and known to cause eye irritation.

Persistence: Refers to the length of time a compound stays in the atmosphere, once introduced. A compound may persist for less than a second or indefinitely.

Photochemical Reaction: A term referring to chemical reactions brought about by the light energy of the sun. The reaction of nitrogen oxides with hydrocarbons in the presence of sunlight to form ozone is an example of a photochemical reaction.

Photolysis: Chemical decomposition induced by light or other energy.

Plume: A visible or measurable discharge of a contaminant from a given point of origin that can be measured according to the Ringelmann scale. (See Ringelmann Chart.)

PM<sub>2.5</sub>: A criteria air pollutant consisting of tiny particles with an aerodynamic diameter less than or equal to a nominal 2.5 microns. This fraction of particulate matter penetrates most deeply into the lungs. PM<sub>2.5</sub> is a major cause of reduced visibility.

PM<sub>10</sub>: A criteria air pollutant consisting of small particles with an aerodynamic diameter less than or equal to a nominal 10 microns (about 1/7 the diameter of a single human hair). Their small size allows them to make their way to the air sacs deep within the lungs where they may be deposited and result in adverse health effects. PM<sub>10</sub> also causes visibility reduction.

Point Sources: Specific points of origin where pollutants are emitted into the atmosphere such as factory smokestacks. See also Area-Wide Sources and Fugitive Emissions.

Pollutant Source: Any area, mobile, or stationary point source from which air pollutants are released. A stationary pollutant source can be a power plant, factory, dry cleaning business, gas station, or farm. An area source can be roadways and large geographic areas such as residential wood burning. Mobile sources are cars, trucks, and other motor vehicles.

Pollutant Standards Index (PSI): A numerical index formerly used for reporting severity of air pollution levels to the general public. The PSI incorporates the five criteria pollutants -- ozone, PM<sub>10</sub>, carbon monoxide, sulfur dioxide, and nitrogen dioxide -- into one single index. PSI levels ranged from 0 (Good air quality) to 500 (Hazardous air quality). The higher the index, the higher the level of pollutants and the greater likelihood of health effects.

Pollution Prevention: The use of materials, processes, or practices to reduce, minimize, or eliminate the creation of pollutants or wastes. It includes practices that reduce the use of toxic or hazardous materials, energy, water, and/or other resources.

Polycyclic Aromatic Hydrocarbons (PAHs): Organic compounds which include only carbon and hydrogen with a fused ring structure containing at least two benzene (six-sided) rings. PAHs may also contain additional fused rings that are not six-sided. The combustion of organic substances is a common source of atmospheric PAHs.

Polymer: Natural or synthetic chemical compounds composed of up to millions of repeated linked units, each of a relatively light and simple molecule

Precipitator: Pollution control device that collects particles from an air stream. See Electrostatic Precipitator.

Prescribed Burning: The planned application of fire to vegetation to achieve any specific objective on lands selected in advance of that application. In Montana, prescribed burning is coordinated by the Montana-Idaho Smoke Management Group.

Prevention of Significant Deterioration (PSD): A permitting program to prevent significant increases in air pollution to maintain the area's air quality that is already better than National Ambient Air Quality Standards (attainment areas).

Primary Particles: Particles that are directly emitted from combustion and fugitive dust sources. Compare with Secondary Particle.

Propellant: A gas with a high vapor pressure used to force formulations out of aerosol spray cans. Among the gases used are butanes, propanes and nitrogen.

Pulmonary: Pertaining to the lungs.

Radon: A colorless, naturally occurring, radioactive, inert gaseous element formed by radioactive decay of radium atoms in soil or rocks.

Reactive Organic Gas (ROG): A photochemically reactive chemical gas composed of nonmethane hydrocarbons that may contribute to the formation of smog. Sometimes referred to as Non-Methane Organic Gases (NMOGs).

Reactivity (or Hydrocarbon Photochemical Reactivity): A term used in the context of air quality management to describe a hydrocarbon's ability to react (participate in photochemical reactions) to form ozone in the atmosphere. Different hydrocarbons react at different rates. The more reactive a hydrocarbon, the greater potential it has to form ozone.

Reasonably Available Control Measures (RACM): A broadly defined term referring to technologies and other measures that can be used to control pollution. They include Reasonably Available Control Technology and other measures. In the case of  $PM_{10}$ , RACM refers to approaches for controlling small or dispersed source categories such as road dust, woodstoves, and open burning.

Reasonably Available Control Technology (RACT): Control techniques defined in U.S. EPA guidelines for limiting emissions from existing sources in nonattainment areas. RACTs are adopted and implemented by states.

Reciprocating Internal Combustion Engine (RICE): An engine in which air and fuel are introduced into cylinders, compressed by pistons and ignited by a spark plug or by compression. Combustion in the cylinders pushes the pistons sequentially, transferring energy to the crankshaft, causing it to rotate.

Regional Haze: The haze produced by a multitude of sources and activities which emit fine particles and their precursors across a broad geographic area.

Regional Haze Rule: A federal requirement that states develop plans to reduce the regional haze that impairs visibility in national parks and wilderness areas in and near each state. The resulting regulations should reflect a comprehensive visibility protection program for all Class I areas except those on reservations. Montana deferred to the federal government and EPA is developing a regional haze control plan for Montana.

Residential Wood Combustion (RWC): the combustion of stick wood and wood pellets in wood stoves, fireplaces and outdoor wood fired hyrdronic heaters (OWHH) for space heating purposes in homes and small businesses.

Residual Risk: The quantity of health risk remaining after application of emission control.

Ringelmann Chart: A series of charts, numbered 0 to 5, which simulate various smoke densities by presenting different percentages of black. Ringelmann Number 1 is equivalent to 20 percent black; Ringelmann Number 5 is 100 percent black. They are used for measuring the opacity or equivalent obscuration of smoke arising from stacks and other sources by matching the actual effluent with the various numbers, or densities, indicated by the charts.

Risk Assessment: An evaluation of risk which estimates the relationship between exposure to a harmful substance and the likelihood that harm will result from that exposure.

Risk Management: An evaluation of the need for and feasibility of reducing risk. It includes consideration of magnitude of risk, available control technologies, and economic feasibility.

Sanctions: Actions taken against a state or local government by the federal government for failure to plan or to implement a State Implementation Plan (SIP). Examples include withholding of highway funds and a ban on construction of new sources of potential pollution.

Scrubber: An air pollution control device that uses a high energy liquid spray to remove aerosol and gaseous pollutants from an air stream. The gases are removed either by absorption or chemical reaction.

Secondary Particle: Particles that are formed in the atmosphere. Secondary particles are products of the chemical reactions between gases, such as nitrates, sulfur oxides, ammonia, and organic products.

Secondary Standard: see welfare standard.

Sensitive Groups: Identifiable subsets of the general population that are at greater risk than the general population to the toxic effects of a specific air pollutant (e.g., infants, asthmatics, elderly).

Smog: A combination of smoke and other particulates, ozone, hydrocarbons, nitrogen oxides, and other chemically reactive compounds that under certain conditions of weather and sunlight may result in a brown haze that causes adverse health effects.

Smoke: A form of air pollution consisting primarily of particulate matter (i.e., particles released by combustion). Other components of smoke include gaseous air pollutants such as hydrocarbons, oxides of nitrogen, and carbon monoxide. Sources of smoke may include fossil fuel combustion, agricultural burning, and other combustion processes.

Soot: Very fine carbon particles that have a black appearance when emitted into the air.

Source: Any place or object from which air pollutants are released. Sources that are fixed in space are stationary sources and sources that move are mobile sources.

Stakeholders: Citizens, environmentalists, businesses, and government representatives that have a stake or concern about how air quality is managed.

State Implementation Plan (SIP): A document prepared by each state describing existing air quality conditions and measures which will be taken to attain and maintain national ambient air quality standards.

Stagnation: With respect to air pollution, stagnation is the persistence of a given volume of stable air over a region, resulting in an abnormal buildup of pollutants from sources within the region.

Stationary Sources: Non-mobile sources such as power plants, refineries, and manufacturing facilities which emit air pollutants. See also mobile sources.

Stratosphere: The layer of the Earth's atmosphere above the troposphere and below the mesosphere. It extends between 10 and 30 miles above the Earth's surface and contains the ozone layer in its lower portion. The stratospheric layer mixes relatively slowly; pollutants that enter it may remain for long periods of time.

Sulfates: See Sulfur Oxides.

Sulfur Dioxide (SO<sub>2</sub>): A strong smelling, colorless gas that is formed by the combustion of fossil fuels. Power plants, which may use coal or oil high in sulfur content, can be major sources of SO<sub>2</sub>. SO<sub>2</sub> and other sulfur oxides contribute to the problem of acid deposition. SO<sub>2</sub> is a criteria air pollutant.

Sulfur Oxides: Pungent, colorless gases (sulfates are solids) formed primarily by the combustion of sulfur-containing fossil fuels, especially coal and oil. Considered major air pollutants, sulfur oxides may impact human health and damage vegetation.

Thermosphere: The outermost layer of the Earth's atmosphere extending from about 60 miles to several hundred miles. The temperature of this layer varies from many hundreds to thousands of degrees Celsius.

Title III: A section of the 1990 amendments to the federal Clean Air Act that addresses the control of toxic air emissions.

Title V: A section of the 1990 amendments to the federal Clean Air Act that requires a federally enforceable operating permit for major sources of air pollution.

Topography: The physical features of a place or region.

Total Organic Gases (TOG): Gaseous organic compounds, including reactive organic gases and the relatively nonreactive organic gases such as methane.

Total Suspended Particulate (TSP): Particles of solid or liquid matter -- such as soot, dust, aerosols, fumes, and mist -- up to approximately 30-50 microns in size.

Troposphere: The layer of the Earth's atmosphere nearest to the surface of the Earth. The troposphere extends outward about five miles at the poles and about 10 miles at the equator.

United States Environmental Protection Agency (EPA): The federal government agency that regulates pollution to the air, water, and land.

Vapor: The gaseous phase of liquids or solids at atmospheric temperature and pressure.

Vapor Density: Vapor density is expressed in grams per liter (g / L) and is compared to the density of air (air = 1).

Vapor Pressure: The pressure, often expressed in millimeters of mercury (mm Hg) or pounds per square inch (PSI) that is characteristic at any given temperatures of a vapor in equilibrium with its liquid or solid form.

Variance: Permission granted for a limited time (under stated conditions) for a person or company to operate outside the limits prescribed in a regulation.

Vehicle Miles Traveled (VMT): The miles traveled by motor vehicles over a specified length of time (e.g., daily, monthly or yearly) or over a specified road or transportation corridor.

Viscosity: The degree to which a fluid resists flow under an applied force.

Visibility: A measurement of the ability to see and identify objects at different distances. Visibility reduction from air pollution is often due to the presence of sulfur and nitrogen oxides, as well as particulate matter.

Volatile: Any substance that evaporates readily.

Volatile Organic Compounds (VOCs): Carbon-containing compounds that evaporate into the air (with a few exceptions). VOCs contribute to the formation of smog and / or may they be toxic. VOCs often have an odor, and some examples include gasoline, alcohol, and the solvents used in paints.

Water Solubility: The solubility of a substance in water provides information on the fate and transport in the environment. The higher the water solubility, the greater the tendency to remain dissolved and the less likely to volatilize from the water. Low water soluble substances will volatilize more readily in water and will partition to soil or bioconcentrate in aquatic organisms.

Weight of Evidence: The extent to which the available information supports the hypothesis that a substance causes an effect in humans. For example, factors which determine the weight-of-evidence that a chemical poses a hazard to humans include the number of tissue sites affected by the agent; the number of animal species, strains, sexes, relationship, statistical significance in the occurrence of the adverse effect in treated subjects compared to untreated controls; and the timing of the occurrence of adverse effect.

Welfare-Based Standard (Secondary Standard): An air quality standard that prevents, reduces, or minimizes injury to agricultural crops and livestock, damage to and the deterioration of property, and hazards to air and ground transportation.

Woodburning Pollution: Air pollution caused by woodburning stoves and fireplaces that emit particulate matter, carbon monoxide and odorous and toxic substances.

Zero Emission Vehicle (ZEV): Vehicles which produce no emissions from the on-board source of power (e.g., an electric vehicle).

# **APPENDIX A**

# **CURRENT AIR MONITORING NETWORK**

Whitefish – Dead End		End of 10 <sup>th</sup> Street		
AQS# 30-029-0009	Lat: 48.39972	Long: -114.33361	Elevation: 3,019 ft	



Site is located at the end of  $10^{th}$  Street near the point where US 93 crosses the Whitefish River. The site is neighborhood scale and was installed to provide continuing PM<sub>10</sub> monitoring for the local nonattainment area.



Kalispell – Flathead Electric		Center St. and Woodland Ave.	
AQS# 30-029-0047	Lat: 48.2025	Long: -114.30556	Elevation: 2,920 ft



This site was installed in 1999 to consolidate particulate monitoring in the Kalispell area. The site is neighborhood scale which collects PM<sub>10</sub> data to demonstrate NAAQS compliance for the Kalispell PM<sub>10</sub> nonattainment area.



Flathead Valley (Columbia Falls HS)		610 13th St West.	
AQS# 30-029-0049	Lat: 48.363694	Long: -114.189272	Elevation: 3221 ft 928 m



This site monitors continuous  $PM_{10}$  and  $PM_{2.5}$ .  $PM_{2.5}$  is intended to reflect the overall  $PM_{2.5}$  concentration for Today's Air in the Flathead area airshed, while  $PM_{10}$  monitoring supports compliance within the local nonattainment area. It has been in operation since 2011.



Lewistown		303 East Aztec Drive	
AQS# 30-027-0006	Lat: 47.048537	Long: -104.455315	Elevation: 4110 ft



This site is operated in cooperation with the Bureau of Land Management for the purposes of background monitoring. The site has been operating since 2012 and measures PM<sub>2.5</sub>, PM<sub>10</sub>, NOx, ozone, and met.



Malta		2309 Short Oil Road	
AQS# 30-071-0010	Lat: 48.317507	Long: -107.862471	Elevation: 2,575 ft



This site is operated in coorperation with the Bureau of Land Management for the purposes of background monitoring. The site has been operating since 2012 and measures PM<sub>2.5</sub>, PM<sub>10</sub>, NOx, ozone, and met.



West Yellowstone – Park Entrance #2		West Entrance to National Park	
AQS# 30-031-0017	Lat: 44.65703	Long: -111.08958	Elevation: 6,660 ft
	This esta to Ye abou Cont site tree road vicin all E fund Cont	microscale site monitors CC blished in 1998 to measure ellowstone National Park (Y ut ¼ mile further into YNP d inuous PM <sub>2.5</sub> monitoring wa is very close to the roadway s. Air flow at monitoring he way. Results are relevant of ity. However, the site oper PA monitoring requirement ed and operated by a Natio gractor. Data is feed to Tod horandum of Understanding	D and PM <sub>2.5</sub> . It was CO at the west entrance NP). The site was moved uring the spring of 2008. as added in 2003. The r and is surrounded by tall right is up and down the only to the immediate ates in compliance with s. This site is current onal Park Service lay's Air under a 3.
	giu - Imagery 62009 DagtaiDio	se, GeoEye, USDA Farm Service Ag	retroy - Ternis or Use

Bozeman – High School		North 15 <sup>th</sup> Ave.	
AQS# 30-031-0019	Lat: 45.68379	Long: -111.05634	Elevation: 4,817 ft



This neighborhood scale monitoring site was installed in January of 2009. The site continuously monitors PM<sub>2.5</sub> to provide data for population exposure assessment in the Bozeman area. It also provides real-time data for DEQ's Today's Air website and this site replaces the Bozeman Wastewater Treatment Plant PM<sub>2.5</sub> site which was lost in the fall of 2008 due to construction activities for expansion of the plant.



NCore		Sieben Flats		
AQS# 30-049-0004 Lat: 46.85049		Long: -111.98727	Elevation: 3,918 ft	
		<text></text>	ekground air quality on a of a national air twork. The site was fully y 1, 2011.	
Helena – Rossiter Pump	House	1497 Sierra Road East		
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AQS# 30-049-0026	Lat: 46.6588	Long: -112.0123	Elevation: 3,711 ft	



This neighborhood scale site is located in the middle of a field at the Rossiter School in the Helena Valley. PM<sub>2.5</sub> serves real-time data used for DEQ's Today's Air website. The site data is also used to assess population exposure and to track the air pollution changes in the area related to ongoing commercial and residential development. Site houses both a filter-based (FRM) and a BAM quality assurance co-located instruments.



Libby – Courthouse Ani	nex	418 Mineral Ave.		
AQS# 30-053-0018	Lat: 48.38416	Long: -115.54805	Elevation: 2,080 ft	



This site on the roof of the Courthouse Annex near the center of Libby has collected particulate data on a neighborhood scale basis since 1987. The site currently monitors PM<sub>10</sub> and PM<sub>2.5</sub> for population exposure and NAAQS compliance for the PM<sub>10</sub> and PM<sub>2.5</sub> nonattainment areas. PM<sub>2.5</sub> data is also continuously monitored for the local wood burning control program and to provide data for the Today's Air website.





Frenchtown-Beckwith		Near Interstate 90 Interchange		
AQS# 30-063-0037	Lat: 47.01290	Long: -114.22427	Elevation: 3,061 ft	



This site has monitored PM<sub>2.5</sub> continuously since November 2009. It is a neighborhood scale site and is located near the I-90 Interchange at Frenchtown. The site was created to determine whether air quality differed between Frenchtown and Missoula.



Seeley Lake-Elementary School		School Lane		
AQS# 30-063-0038	Lat: 47.17564	Long: -113.47623	Elevation: 4,065 ft	



This site was established late in 2009 to provide continuous  $PM_{2.5}$  data to the <u>Today's</u> <u>Air</u> website.



Broadus – Powder Rive	r	2 miles east of Broadus		
AQS# 30-075-0001	Lat: 45.44007	Long: -105.37024	Elevation: 3,097 ft	



This site is located in the Powder River Valley of south-eastern Montana serves as a longterm multi-pollutant trend monitor.  $PM_{10}$ ,  $PM_{2.5}$ , oxides of nitrogen, ozone and surface level meteorological data (wind speed and direction, temperature, etc.) are collected at this site.



Hamilton – PS#46		Madison and 3 <sup>rd</sup> Street South		
AQS# 30-081-0007	Lat: 46.24583	Long: -114.15886	Elevation: 3,570 ft	



This neighborhood scale site was established in 2005 in the paved parking lot at the corner of Madison and 3<sup>rd</sup> Street South. The site is within five meters of an alley (gravel) and Madison Street (paved) but both roadways experience very low levels of motor vehicle traffic. PM<sub>2.5</sub> data is collected continuously and is used to assess population exposure and NAAQS compliance. The PM<sub>2.5</sub> data is reported to the Today's Air website and used for public health protection plans during periods of poor air quality which the community frequently experiences during summer wildfire events.



Sidney – 201		25 miles northwest of Sidney		
AQS# 30-083-0002	Lat: 47.8679	Long: -104.6768	Elevation: 2,339 ft	



This site was established in eastern Montana to determine the levels oxides of nitrogen, ozone, PM<sub>2.5</sub> and PM<sub>10</sub> on a neighborhood scale basis and to track changes in air quality that may occur due to the development of the Bakken Oil Field. Surface level meteorological data (wind speed and direction, temperature, etc.) was also collected at this site up until October 2009.





Thompson Falls – High S	School	Golf and Haley		
AQS# 30-089-0007	Lat: 47.59639	Long: -115.32361	Elevation: 2,461 ft	



This site is located on the east side of Thompson Falls at the high school. The site was established in 1999 and collects  $PM_{10}$ and  $PM_{2.5}$  data on a neighborhood scale basis. Data from the site is used to track NAAQS compliance in the local  $PM_{10}$ nonattainment area and to assess population exposure to particulate matter.



Butte – Greeley School			
AQS# 30-093-0005	Lat: 46.00240	Long: -112.50089	Elevation: 5,519 ft



maximum PM<sub>2.5</sub> concentrations in Butte.

This historical site is at a former elementary school in a residential neighborhood and very near an operating open pit copper mine. PM<sub>10</sub> and PM<sub>2.5</sub> data collected at this site represents population exposure on a neighborhood scale. PM<sub>10</sub> is continuously monitored to verify NAAQS compliance in the Butte nonattainment area. Continuous PM<sub>2.5</sub> data is reported to the Today's Air website and used for public health protection plans during periods of poor air quality. The wintertime saturation study of 2008/09 determined Greeley School is the location for





Billings – Lockwood		Lockwood Baseball Complex		
AQS# 30-111-0085	Lat: 45.78218	Long: 108.51153	Elevation: 3,166 ft	



This site monitors PM<sub>2.5</sub> on a neighborhood scale basis in Lockwood, a suburb of Billings at the Lockwood Park Baseball complex. The site was installed to demonstrate compliance with the NAAQS in the Billings area and to provide data for the Today's Air website and to be used for public health protection plans during periods of poor air quality.



## **APPENDIX B**

## SUMMARY OF HISTORICAL MONITORING SITES

County		Para- meter	F	2				
Code	Site ID	Code	C	Parameter Description	Site Description	County	Begin Date	End Date
001	0001	11101	1	Suspended Particulate (Tsp)	COUNTY COURTHOUSE ROOF, TENDOY ST	Beaverhead	01-Jan-1984	31-Dec-1986
001	0002	11101	1	Suspended Particulate (Tsp)	STEFANICH RANCH	Beaverhead	01-Jan-1973	31-Dec-1973
001	0002	12110	1	Cadmium (Tsp) Stp	STEFANICH RANCH	Beaverhead	01-Jan-1973	31-Dec-1973
001	0002	12128	1	Lead (Tsp) Stp	STEFANICH RANCH	Beaverhead	01-Jan-1973	31-Dec-1973
001	0002	12167	1	Zinc (Tsp) Stp	STEFANICH RANCH	Beaverhead	01-Jan-1973	31-Dec-1973
001	0006	11101	1	Suspended Particulate (Tsp)	MONIDA STAR ROUTE LIMA MT 59739	Beaverhead	01-Jan-1981	31-Dec-1982
003	0001	11101	1	Suspended Particulate (Tsp)	HARDIN MDU, NE CORNER OF ROOF, 15 E 4TH ST	Big Horn	01-Jan-1972	31-Dec-1973
003	0001	11103	1	Benzene Sol.Organics(TSP)	HARDIN MDU, NE CORNER OF ROOF, 15 E 4TH ST	Big Horn	01-Jan-1972	31-Dec-1973
003	0001	12110	1	Cadmium (Tsp) Stp	HARDIN MDU, NE CORNER OF ROOF, 15 E 4TH ST	Big Horn	01-Jan-1972	31-Dec-1973
003	0001	12128	1	Lead (Tsp) Stp	HARDIN MDU, NE CORNER OF ROOF, 15 E 4TH ST	Big Horn	01-Jan-1972	31-Dec-1973
003	0001	12167	1	Zinc (Tsp) Stp	HARDIN MDU, NE CORNER OF ROOF, 15 E 4TH ST	Big Horn	01-Jan-1972	31-Dec-1973
003	0008	11101	1	Suspended Particulate (Tsp)	CARLAT RANCH	Big Horn	01-Jan-1972	31-Dec-1974
003	8000	12110	1	Cadmium (Tsp) Stp	CARLAT RANCH	Big Horn	01-Jan-1972	31-Dec-1974
003	8000	12128	1	Lead (Tsp) Stp	CARLAT RANCH	Big Horn	01-Jan-1972	31-Dec-1974
003	0008	12167	1	Zinc (Tsp) Stp	CARLAT RANCH	Big Horn	01-Jan-1972	31-Dec-1974
003	0009	11101	1	Suspended Particulate (Tsp)	THOMAS RANCH (MORTON RESIDENCE), DECKER	Big Horn	01-Jan-1974	31-Dec-1981
003	0009	12306	2	Nitrate (Tsp) Stp	THOMAS RANCH (MORTON RESIDENCE), DECKER	Big Horn	01-Jan-1976	31-Dec-1977
003	0009	12306	1	Nitrate (Tsp) Stp	THOMAS RANCH (MORTON RESIDENCE), DECKER	Big Horn	01-Jan-1977	31-Dec-1977
003	0009	12403	1	Sulfate (Tsp) Stp	THOMAS RANCH (MORTON RESIDENCE), DECKER	Big Horn	01-Jan-1976	31-Dec-1977
003	0010	11101	1	Suspended Particulate (Tsp)	WARREN RANCH, HARDIN MT	Big Horn	01-Jan-1975	31-Dec-1980
003	0011	11101	1	Suspended Particulate (Tsp)	DECKER COAL #1 DECKER MT	Big Horn	01-Jan-1979	29-Jun-1992
003	0011	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	DECKER COAL #1 DECKER MT	Big Horn	01-Jan-2004	
003	0011	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	DECKER COAL #1 DECKER MT	Big Horn	05-Jul-1992	31-Dec-1997
003	0011	85101	1	PM <sub>10</sub> - Lc	DECKER COAL #1 DECKER MT	Big Horn	01-Jan-1998	
003	0012	11101	2	Suspended Particulate (Tsp)	DECKER COAL #2 DECKER MT	Big Horn	01-Jan-1979	30-Apr-1991
003	0012	62101	1	Outdoor Temperature	DECKER COAL #2 DECKER MT	Big Horn	01-Jan-1981	30-Jun-1994
003	0012	62103	1	Dew Point	DECKER COAL #2 DECKER MT	Big Horn	01-Jan-1981	31-Dec-1982
003	0012	64101	1	Barometric Pressure	DECKER COAL #2 DECKER MT	Big Horn	01-Jan-1981	31-Dec-1981
003	0012	65102	1	Rain/Melt Precipitation	DECKER COAL #2 DECKER MT	- Big Horn	01-Jan-1981	31-Dec-1985
003	0013	11101	1	Suspended Particulate (Tsp)	DECKER COAL #3 DECKER MT	Big Horn	01-Jan-1979	23-Jun-1992
003	0013	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	DECKER COAL #3 DECKER MT	Big Horn	29-Jun-1992	04-Aug-1993

003	0014	11101	1	Suspended Particulate (Tsp)	DECKER COAL #4 DECKER MT	Big Horn	01-Jan-1979	12-May-1992
003	0014	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	DECKER COAL #4 DECKER MT	Big Horn	01-Jan-2004	
003	0014	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	DECKER COAL #4 DECKER MT	Big Horn	23-Jun-1992	31-Dec-1997
003	0014	85101	1	PM10 - Lc	DECKER COAL #4 DECKER MT	Big Horn	01-Jan-1998	
003	0015	11101	1	Suspended Particulate (Tsp)	DECKER COAL #8, WIND STATION	Big Horn	01-Jan-1979	31-Dec-1981
003	0015	61101	1	Wind Speed	DECKER COAL #8, WIND STATION	Big Horn	01-Jan-1980	30-Jun-1994
003	0015	61102	1	Wind Direction	DECKER COAL #8, WIND STATION	Big Horn	01-Jan-1980	30-Jun-1994
003	0016	11101	3	Suspended Particulate (Tsp)	DECKER COAL #6 DECKER MT	Big Horn	01-Jan-1982	31-Dec-1982
003	0016	11101	2	Suspended Particulate (Tsp)	DECKER COAL #6 DECKER MT	Big Horn	01-Jan-1979	31-Dec-1982
003	0016	11101	1	Suspended Particulate (Tsp)	DECKER COAL #6 DECKER MT	Big Horn	01-Jan-1982	31-Dec-1983
003	0017	11101	1	Suspended Particulate (Tsp)	DECKER COAL #7 DECKER MT	Big Horn	01-Jan-1979	29-Jun-1992
003	0017	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	DECKER COAL #7 DECKER MT	Big Horn	01-Jan-2004	
003	0017	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	DECKER COAL #7 DECKER MT	Big Horn	05-Jul-1992	31-Dec-1997
003	0017	85101	1	PM <sub>10</sub> - Lc	DECKER COAL #7 DECKER MT	Big Horn	01-Jan-1998	
003	0018	11101	2	Suspended Particulate (Tsp)	SPRING CREEK COAL, SITE #1, DECKER, MT	Big Horn	01-Jan-1982	31-Dec-1990
003	0018	11101	1	Suspended Particulate (Tsp)	SPRING CREEK COAL, SITE #1, DECKER, MT	Big Horn	01-Jan-1982	23-Jun-1992
003	0018	61101	1	Wind Speed	SPRING CREEK COAL, SITE #1, DECKER, MT	Big Horn	01-Jan-1982	
003	0018	61102	1	Wind Direction	SPRING CREEK COAL, SITE #1, DECKER, MT	Big Horn	01-Jan-1982	
003	0018	61106	1	Std Dev Hz Wind Direction	SPRING CREEK COAL, SITE #1, DECKER, MT	Big Horn	01-Sep-1993	
003	0018	62101	1	Outdoor Temperature	SPRING CREEK COAL, SITE #1, DECKER, MT	Big Horn	01-Jan-1982	
003	0018	65102	1	Rain/Melt Precipitation	SPRING CREEK COAL, SITE #1, DECKER, MT	Big Horn	01-Jan-1985	31-Dec-1985
003	0018	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	SPRING CREEK COAL, SITE #1, DECKER, MT	Big Horn	01-Jan-2004	
003	0018	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	SPRING CREEK COAL, SITE #1, DECKER, MT	Big Horn	29-Jun-1992	31-Dec-1997
003	0018	85101	1	PM <sub>10</sub> - Lc	SPRING CREEK COAL, SITE #1, DECKER, MT	Big Horn	01-Jan-1998	
003	0019	11101	1	Suspended Particulate (Tsp)	SPRING CREEK #2 DECKER MT	Big Horn	01-Jan-1982	23-Jun-1992
003	0019	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	SPRING CREEK #2 DECKER MT	Big Horn	01-Jan-2004	
003	0019	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	SPRING CREEK #2 DECKER MT	Big Horn	29-Jun-1992	31-Dec-1997
003	0019	85101	1	PM <sub>10</sub> - Lc	SPRING CREEK #2 DECKER MT	Big Horn	01-Jan-1998	
003	0020	11101	1	Suspended Particulate (Tsp)	SPRING CREEK #3 DECKER MT	Big Horn	01-Jan-1982	23-Jun-1992
003	0020	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	SPRING CREEK #3 DECKER MT	Big Horn	29-Jun-1992	31-Dec-1997
003	0020	85101	1	PM <sub>10</sub> - Lc	SPRING CREEK #3 DECKER MT	Big Horn	01-Jan-1998	03-Mar-2002
003	0021	11101	2	Suspended Particulate (Tsp)	DECKER COAL #5, DECKER, MT	Big Horn	01-Jan-1983	23-Jun-1992
003	0021	11101	1	Suspended Particulate (Tsp)	DECKER COAL #5, DECKER, MT	Big Horn	01-Jan-1982	31-Dec-1983

003	0021	11101	3	Suspended Particulate (Tsp)	DECKER COAL #5, DECKER, MT	Big Horn	01-Jan-1982	31-Dec-1990
003	0021	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	DECKER COAL #5, DECKER, MT	Big Horn	29-Jun-1992	31-Dec-1997
003	0021	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	DECKER COAL #5, DECKER, MT	Big Horn	01-Jan-2004	29-May-2005
003	0021	85101	1	PM10 - Lc	DECKER COAL #5, DECKER, MT	Big Horn	01-Jan-1998	29-May-2005
003	0022	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	NINER RANCH, NORTH DECKER MINE	Big Horn	16-Sep-1993	31-Dec-1997
003	0022	85101	1	PM <sub>10</sub> - Lc	NINER RANCH, NORTH DECKER MINE	Big Horn	01-Jan-1998	03-Jul-2001
003	0023	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	NORTH PIT	Big Horn	01-Jan-2004	
003	0023	85101	1	PM <sub>10</sub> - Lc	NORTH PIT	Big Horn	01-Jul-2001	
003	0025	11101	1	Suspended Particulate (Tsp)	WESTMORELAND, ABSALOKA MINE #2, HARDIN	Big Horn	01-Jan-1980	27-Sep-1991
003	0025	61101	1	Wind Speed	WESTMORELAND, ABSALOKA MINE #2, HARDIN	Big Horn	01-Jan-1980	31-Dec-1984
003	0025	61102	1	Wind Direction	WESTMORELAND, ABSALOKA MINE #2, HARDIN	Big Horn	01-Jan-1980	31-Dec-1984
003	0025	62101	1	Outdoor Temperature	WESTMORELAND, ABSALOKA MINE #2, HARDIN	Big Horn	01-Apr-1981	31-Dec-1984
003	0026	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	WEST NORTH WEST OF OFFICE	Big Horn	01-Jan-2004	
003	0026	85101	1	PM10 - Lc	WEST NORTH WEST OF OFFICE	Big Horn	09-Mar-2002	
003	0027	11101	1	Suspended Particulate (Tsp)	WESTMORELAND, ABSALOKA MINE #3, HARDIN	Big Horn	01-Jan-1980	31-Dec-1983
003	0028	11101	2	Suspended Particulate (Tsp)	WESTMORELAND, ABSALOKA MINE #5, HARDIN	Big Horn	01-Jan-1982	31-Dec-1990
003	0028	11101	1	Suspended Particulate (Tsp)	WESTMORELAND, ABSALOKA MINE #5, HARDIN	Big Horn	01-Jan-1980	27-Sep-1991
003	0028	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	WESTMORELAND, ABSALOKA MINE #5, HARDIN	Big Horn	09-Oct-1991	31-Dec-1997
003	0028	85101	1	PM <sub>10</sub> - Lc	WESTMORELAND, ABSALOKA MINE #5, HARDIN	Big Horn	01-Jan-1998	31-Dec-1998
003	0029	11101	1	Suspended Particulate (Tsp)	WESTMORELAND, ABSALOKA MINE #6, HARDIN	Big Horn	01-Jan-1980	27-Sep-1991
003	0029	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	WESTMORELAND, ABSALOKA MINE #6, HARDIN	Big Horn	03-Oct-1991	29-Dec-1994
003	0030	11101	1	Suspended Particulate (Tsp)	WESTMORELAND, ABSALOKA MINE #7, HARDIN	Big Horn	01-Jan-1980	31-Dec-1983
003	0031	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	SAND ROCK, ABSALOKA MINE, 30 MI E HARDIN	Big Horn	03-Jan-1995	31-Dec-1997
003	0031	85101	1	PM <sub>10</sub> - Lc	SAND ROCK, ABSALOKA MINE, 30 MI E HARDIN	Big Horn	01-Jan-1998	31-Dec-1998
003	0035	11101	1	Suspended Particulate (Tsp)	WESTMORELAND, ABSALOKA MINE #10, HARDIN	Big Horn	01-Jan-1980	31-Dec-1983
003	0036	11101	1	Suspended Particulate (Tsp)	WESTMORELAND, ABSALOKA MINE #7, HARDIN	Big Horn	01-Jan-1983	27-Sep-1991
003	0036	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	WESTMORELAND, ABSALOKA MINE #7, HARDIN	Big Horn	09-Oct-1991	31-Dec-1997
003	0036	85101	1	PM <sub>10</sub> - Lc	WESTMORELAND, ABSALOKA MINE #7, HARDIN	Big Horn	01-Jan-1998	31-Dec-1998
003	0037	61101	1	Wind Speed	.5 MILES NORTH OF INTEREST 90	Big Horn	10-May-2002	12-Jun-2003
003	0037	61102	1	Wind Direction	.5 MILES NORTH OF INTEREST 90	Big Horn	10-May-2002	12-Jun-2003
003	0037	61106	1	Std Dev Hz Wind Direction	.5 MILES NORTH OF INTEREST 90	Big Horn	10-May-2002	12-Jun-2003
003	0037	62101	2	Outdoor Temperature	.5 MILES NORTH OF INTEREST 90	Big Horn	10-May-2002	12-Jun-2003
003	0037	62101	1	Outdoor Temperature	.5 MILES NORTH OF INTEREST 90	Big Horn	10-May-2002	12-Jun-2003

003	0037	62106	1	Temperature Difference	.5 MILES NORTH OF INTEREST 90	Big Horn	10-May-2002	12-Jun-2003
003	0037	63301	1	Solar Radiation	.5 MILES NORTH OF INTEREST 90	Big Horn	10-May-2002	12-Jun-2003
003	0038	42401	1	Sulfur Dioxide	.5 MILES NORTH OF INTERSTATE 90	Big Horn	12-Apr-2002	12-Jun-2003
003	0038	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	.5 MILES NORTH OF INTERSTATE 90	Big Horn	11-Apr-2002	12-Jun-2003
003	0038	85101	1	PM <sub>10</sub> - Lc	.5 MILES NORTH OF INTERSTATE 90	Big Horn	11-Apr-2002	12-Jun-2003
003	0039	11101	1	Suspended Particulate (Tsp)	BUSBY MT	Big Horn	01-Jan-1982	31-Dec-1983
003	0039	81101	1	Size Fractionated Particulate	BUSBY MT	Big Horn	01-Jan-1982	31-Dec-1983
003	0040	11101	1	Suspended Particulate (Tsp)	BUSBY MONTANA	Big Horn	01-Jan-1984	31-Dec-1988
003	0041	11101	1	Suspended Particulate (Tsp)	CROW AGENCY MONTANA	Big Horn	01-Jan-1985	31-Dec-1986
003	0041	11101	2	Suspended Particulate (Tsp)	CROW AGENCY MONTANA	Big Horn	01-Jan-1985	31-Dec-1986
003	0042	11101	2	Suspended Particulate (Tsp)	LODGE GRASS CITY PARK	Big Horn	20-Nov-1986	31-Dec-1988
003	0042	11101	1	Suspended Particulate (Tsp)	LODGE GRASS CITY PARK	Big Horn	01-Jan-1985	31-Dec-1988
003	0043	61101	1	Wind Speed	CROW DNR BUILDING 1 1/2 MI SO OF CROW AG	Big Horn	01-Jan-1984	31-Dec-1985
003	0043	61102	1	Wind Direction	CROW DNR BUILDING 1 1/2 MI SO OF CROW AG	Big Horn	01-Jan-1984	31-Dec-1985
003	0043	62101	1	Outdoor Temperature	CROW DNR BUILDING 1 1/2 MI SO OF CROW AG	Big Horn	01-Jan-1984	31-Dec-1985
003	0044	42410	1	Sulfation Rate	HARDIN - CROW #7	Big Horn	01-Dec-1986	31-Dec-1988
003	0045	11101	1	Suspended Particulate (Tsp)	CROW - PRYOR CLINIC	Big Horn	01-Jan-1987	31-Dec-1988
003	0045	61102	1	Wind Direction	CROW - PRYOR CLINIC	Big Horn	01-Jan-1987	01-Jan-1987
003	0045	61106	1	Std Dev Hz Wind Direction	CROW - PRYOR CLINIC	Big Horn	01-Jan-1987	01-Jan-1987
003	0046	61101	1	Wind Speed	DECKER WEST, WEST DECKER MINE	Big Horn	01-Jul-1994	
003	0046	61102	1	Wind Direction	DECKER WEST, WEST DECKER MINE	Big Horn	01-Jul-1994	
003	0046	61106	1	Std Dev Hz Wind Direction	DECKER WEST, WEST DECKER MINE	Big Horn	01-Jul-1994	
003	0046	62101	1	Outdoor Temperature	DECKER WEST, WEST DECKER MINE	Big Horn	01-Jul-1994	
005	0001	11101	1	Suspended Particulate (Tsp)	CAMPCRIER, TOP OF CAMPCRIER BUILDING	Blaine	01-Jan-1982	15-Jul-1989
005	0001	11101	2	Suspended Particulate (Tsp)	CAMPCRIER, TOP OF CAMPCRIER BUILDING	Blaine	01-Jan-1982	31-Dec-1988
005	0001	61101	1	Wind Speed	CAMPCRIER, TOP OF CAMPCRIER BUILDING	Blaine	01-Jan-1981	20-Jun-1989
005	0001	61102	1	Wind Direction	CAMPCRIER, TOP OF CAMPCRIER BUILDING	Blaine	01-Jan-1981	20-Jun-1989
005	0002	11101	1	Suspended Particulate (Tsp)	HAYS FORESTRY SHOP, HAYS	Blaine	01-Jan-1983	31-Dec-1991
005	0002	61101	1	Wind Speed	HAYS FORESTRY SHOP, HAYS	Blaine	20-Oct-1992	01-Jul-1993
005	0002	61102	1	Wind Direction	HAYS FORESTRY SHOP, HAYS	Blaine	20-Oct-1992	01-Jul-1993
005	0002	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	HAYS FORESTRY SHOP, HAYS	Blaine	01-Jan-1990	01-Jul-1993
007	0001	11101	1	Suspended Particulate (Tsp)	CONTINENTAL LIME, INDIAN CREEK #7	Broadwater	01-Jan-1983	31-Dec-1983
007	0004	11101	1	Suspended Particulate (Tsp)	INDIAN CREEK MET STATION, TOWNSEND	Broadwater	01-Jan-1983	31-Dec-1984

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007	0004	11101	2	Suspended Particulate (Tsp)	INDIAN CREEK MET STATION, TOWNSEND	Broadwater	01-Jan-1983	31-Dec-1984
007	0004	61101	1	Wind Speed	INDIAN CREEK MET STATION, TOWNSEND	Broadwater	01-Sep-1990	31-Dec-1998
007	0004	61102	1	Wind Direction	INDIAN CREEK MET STATION, TOWNSEND	Broadwater	01-Sep-1990	31-Dec-1998
007	0004	61106	1	Std Dev Hz Wind Direction	INDIAN CREEK MET STATION, TOWNSEND	Broadwater	01-Sep-1990	31-Dec-1998
007	0004	62101	1	Outdoor Temperature	INDIAN CREEK MET STATION, TOWNSEND	Broadwater	01-Sep-1990	31-Dec-1998
007	0005	11101	1	Suspended Particulate (Tsp)	CONTINENTAL LIME, INDIAN CREEK #4	Broadwater	01-Jan-1983	31-Dec-1984
007	0006	61101	1	Wind Speed	Graymont Processing Facility - Indian Creek Rd	Broadwater	13-Jul-2007	
007	0006	61101	2	Wind Speed	Graymont Processing Facility - Indian Creek Rd	Broadwater	13-Jul-2007	
007	0006	61102	1	Wind Direction	Graymont Processing Facility - Indian Creek Rd	Broadwater	13-Jul-2007	
007	0006	61102	2	Wind Direction	Graymont Processing Facility - Indian Creek Rd	Broadwater	13-Jul-2007	
007	0006	61106	1	Std Dev Hz Wind Direction	Graymont Processing Facility - Indian Creek Rd	Broadwater	13-Jul-2007	
007	0006	61106	2	Std Dev Hz Wind Direction	Graymont Processing Facility - Indian Creek Rd	Broadwater	13-Jul-2007	
007	0006	61109	2	Vertical Wind Speed	Graymont Processing Facility - Indian Creek Rd	Broadwater	13-Jul-2007	
007	0006	61109	1	Vertical Wind Speed	Graymont Processing Facility - Indian Creek Rd	Broadwater	13-Jul-2007	
007	0006	61110	2	Std Dev Vt Wind Speed	Graymont Processing Facility - Indian Creek Rd	Broadwater	13-Jul-2007	
007	0006	61110	1	Std Dev Vt Wind Speed	Graymont Processing Facility - Indian Creek Rd	Broadwater	13-Jul-2007	
007	0006	62101	2	Outdoor Temperature	Graymont Processing Facility - Indian Creek Rd	Broadwater	13-Jul-2007	
007	0006	62101	3	Outdoor Temperature	Graymont Processing Facility - Indian Creek Rd	Broadwater	13-Jul-2007	
007	0006	62101	1	Outdoor Temperature	Graymont Processing Facility - Indian Creek Rd	Broadwater	13-Jul-2007	
007	0006	62106	1	Temperature Difference	Graymont Processing Facility - Indian Creek Rd	Broadwater	13-Jul-2007	
007	0006	62106	2	Temperature Difference	Graymont Processing Facility - Indian Creek Rd	Broadwater	13-Jul-2007	
007	0006	62201	1	Relative Humidity	Graymont Processing Facility - Indian Creek Rd	Broadwater	13-Jul-2007	
007	0006	63301	1	Solar Radiation	Graymont Processing Facility - Indian Creek Rd	Broadwater	13-Jul-2007	
007	0006	63305	1	Net Radiation	Graymont Processing Facility - Indian Creek Rd	Broadwater	13-Jul-2007	
007	0006	64101	1	Barometric Pressure	Graymont Processing Facility - Indian Creek Rd	Broadwater	13-Jul-2007	
007	0006	65102	1	Rain/Melt Precipitation	Graymont Processing Facility - Indian Creek Rd	Broadwater	13-Jul-2007	
007	0008	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	CONTINENTAL LIME-INDIAN CREEK #1-LANDFIL	Broadwater	01-Oct-1989	29-Dec-1996
007	0009	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	CONTINENTAL LIME-INDIAN CRK #2-HILLSIDE	Broadwater	01-Oct-1989	31-Dec-1997
007	0009	85101	1	PM <sub>10</sub> - Lc	CONTINENTAL LIME-INDIAN CRK #2-HILLSIDE	Broadwater	01-Jan-1998	31-Dec-1998
007	0010	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	CONTINENTAL LIME-INDIAN CRK #3-QUARRY	Broadwater	01-Oct-1989	04-Apr-1995
007	0011	61101	1	Wind Speed	PEGASUS GOLD-DIAMOND HILL SITE #1	Broadwater	01-Sep-1989	09-Nov-1990
007	0011	61102	1	Wind Direction	PEGASUS GOLD-DIAMOND HILL SITE #1	Broadwater	01-Sep-1989	09-Nov-1990
007	0011	61106	1	Std Dev Hz Wind Direction	PEGASUS GOLD-DIAMOND HILL SITE #1	Broadwater	01-Sep-1989	09-Nov-1990

007	0011	62101	1 Outdoor Temperature	PEGASUS GOLD-DIAMOND HILL SITE #1	Broadwater	01-Sep-1989	09-Nov-1990
007	0011	81102	1 PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	PEGASUS GOLD-DIAMOND HILL SITE #1	Broadwater	01-Sep-1989	09-Nov-1990
007	0011	82103	1 Arsenic PM <sub>10</sub> Stp	PEGASUS GOLD-DIAMOND HILL SITE #1	Broadwater	05-Jan-1990	09-Nov-1990
007	0011	82110	1 Cadmium PM <sub>10</sub> Stp	PEGASUS GOLD-DIAMOND HILL SITE #1	Broadwater	05-Jan-1990	09-Nov-1990
007	0011	82112	1 Chromium PM <sub>10</sub> Stp	PEGASUS GOLD-DIAMOND HILL SITE #1	Broadwater	05-Jan-1990	09-Nov-1990
007	0011	82128	1 Lead PM <sub>10</sub> Stp	PEGASUS GOLD-DIAMOND HILL SITE #1	Broadwater	05-Jan-1990	09-Nov-1990
007	0011	82167	1 Zinc PM <sub>10</sub> Stp	PEGASUS GOLD-DIAMOND HILL SITE #1	Broadwater	05-Jan-1990	09-Nov-1990
007	0012	61101	1 Wind Speed	PEGASUS GOLD-DIAMOND HILL SITE #2	Broadwater	01-Sep-1989	31-Aug-1990
007	0012	61102	1 Wind Direction	PEGASUS GOLD-DIAMOND HILL SITE #2	Broadwater	01-Sep-1989	31-Aug-1990
007	0012	61106	1 Std Dev Hz Wind Direction	PEGASUS GOLD-DIAMOND HILL SITE #2	Broadwater	01-Sep-1989	31-Aug-1990
007	0012	62101	1 Outdoor Temperature	PEGASUS GOLD-DIAMOND HILL SITE #2	Broadwater	12-Oct-1989	14-Jun-1990
007	0013	42401	1 Sulfur Dioxide	CONTINENTAL LIME-INDIAN CREEK #5,TOWNSND	Broadwater	30-Apr-1993	30-Sep-1996
007	0014	81102	1 PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	WHITE PINE GULCH;4 MI W OFF RT 12/287	Broadwater	03-Apr-1995	31-Dec-1997
007	0014	85101	1 PM <sub>10</sub> - Lc	WHITE PINE GULCH;4 MI W OFF RT 12/287	Broadwater	01-Jan-1998	31-Dec-1998
007	0015	81102	1 PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	DIAMOND HILL MINE;7 MILES W OF TOWNSEND	Broadwater	01-Nov-1996	31-Dec-1997
007	0015	82103	1 Arsenic PM <sub>10</sub> Stp	DIAMOND HILL MINE;7 MILES W OF TOWNSEND	Broadwater	01-Nov-1996	07-Feb-1998
007	0015	82110	1 Cadmium PM <sub>10</sub> Stp	DIAMOND HILL MINE;7 MILES W OF TOWNSEND	Broadwater	01-Nov-1996	07-Feb-1998
007	0015	82112	1 Chromium PM <sub>10</sub> Stp	DIAMOND HILL MINE;7 MILES W OF TOWNSEND	Broadwater	01-Nov-1996	07-Feb-1998
007	0015	82128	1 Lead PM <sub>10</sub> Stp	DIAMOND HILL MINE;7 MILES W OF TOWNSEND	Broadwater	01-Nov-1996	07-Feb-1998
007	0015	82167	1 Zinc PM <sub>10</sub> Stp	DIAMOND HILL MINE;7 MILES W OF TOWNSEND	Broadwater	01-Nov-1996	07-Feb-1998
007	0015	85101	1 PM <sub>10</sub> - Lc	DIAMOND HILL MINE;7 MILES W OF TOWNSEND	Broadwater	01-Jan-1998	30-Apr-2001
011	0001	11101	1 Suspended Particulate (Tsp)	CARTER SITE NEAR EKALAKA	Carter	01-Jan-1974	31-Dec-1977
011	0002	11101	1 Suspended Particulate (Tsp)	KEN HUTTON RESIDENCE EKALAKA, MONTANA	Carter	01-Jan-1977	31-Dec-1977
011	0002	12306	2 Nitrate (Tsp) Stp	KEN HUTTON RESIDENCE EKALAKA, MONTANA	Carter	01-Jan-1977	31-Dec-1977
011	0002	12306	1 Nitrate (Tsp) Stp	KEN HUTTON RESIDENCE EKALAKA, MONTANA	Carter	01-Jan-1977	31-Dec-1977
011	0002	12403	1 Sulfate (Tsp) Stp	KEN HUTTON RESIDENCE EKALAKA, MONTANA	Carter	01-Jan-1977	31-Dec-1977
013	0001	42101	1 Carbon Monoxide	NW CORNER 10AVE S/2ND ST INTERSECTION	Cascade	02-Jul-2001	
013	0001	88502	3 Accpt.PM25 AQI Spec.Mass	NW CORNER 10AVE S/2ND ST INTERSECTION	Cascade	09-Jul-2008	
013	0002	81102	1 PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	7 MILES NE OF MALSTROM AFB	Cascade	14-Nov-2004	30-Mar-2006
013	0002	85101	1 PM <sub>10</sub> - Lc	7 MILES NE OF MALSTROM AFB	Cascade	14-Nov-2004	30-Mar-2006
013	0007	11101	1 Suspended Particulate (Tsp)	CITY-COUNTY HOSPITAL, 1130 17TH AVE SO	Cascade	01-Jan-1971	31-Dec-1981
013	0007	11103	1 Benzene Sol.Organics(TSP)	CITY-COUNTY HOSPITAL, 1130 17TH AVE SO	Cascade	01-Jan-1971	31-Dec-1972
013	0007	12103	1 Arsenic (Tsp) Stp	CITY-COUNTY HOSPITAL, 1130 17TH AVE SO	Cascade	01-Jan-1971	31-Dec-1972

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013	0007	12110	1	Cadmium (Tsp) Stp	CITY-COUNTY HOSPITAL,1130 17TH AVE SO	Cascade	01-Jan-1972	31-Dec-1972
013	0007	12128	1	Lead (Tsp) Stp	CITY-COUNTY HOSPITAL,1130 17TH AVE SO	Cascade	01-Jan-1971	31-Dec-1972
013	0007	12167	1	Zinc (Tsp) Stp	CITY-COUNTY HOSPITAL,1130 17TH AVE SO	Cascade	01-Jan-1972	31-Dec-1972
013	0007	21101	1	Total Dustfall (Sp)	CITY-COUNTY HOSPITAL,1130 17TH AVE SO	Cascade	01-Jan-1978	31-Dec-1981
013	0007	42401	1	Sulfur Dioxide	CITY-COUNTY HOSPITAL,1130 17TH AVE SO	Cascade	01-Jan-1975	31-Dec-1975
013	0007	42410	1	Sulfation Rate	CITY-COUNTY HOSPITAL,1130 17TH AVE SO	Cascade	01-Jan-1978	31-Dec-1980
013	0009	11101	2	Suspended Particulate (Tsp)	FIRE STATION, 9TH ST & 1ST AVE SOUTH	Cascade	26-Jul-1988	19-Oct-1989
013	0009	11101	1	Suspended Particulate (Tsp)	FIRE STATION, 9TH ST & 1ST AVE SOUTH	Cascade	01-Jan-1973	19-Oct-1989
013	0009	12306	1	Nitrate (Tsp) Stp	FIRE STATION, 9TH ST & 1ST AVE SOUTH	Cascade	01-Jan-1978	31-Dec-1982
013	0009	12403	1	Sulfate (Tsp) Stp	FIRE STATION, 9TH ST & 1ST AVE SOUTH	Cascade	01-Jan-1978	31-Dec-1982
013	0009	21101	1	Total Dustfall (Sp)	FIRE STATION, 9TH ST & 1ST AVE SOUTH	Cascade	01-Jan-1978	31-Dec-1981
013	0009	42410	1	Sulfation Rate	FIRE STATION, 9TH ST & 1ST AVE SOUTH	Cascade	01-Jan-1978	31-Dec-1980
013	0009	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	FIRE STATION, 9TH ST & 1ST AVE SOUTH	Cascade	14-Jul-1988	26-Sep-1997
013	0009	81102	2	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	FIRE STATION, 9TH ST & 1ST AVE SOUTH	Cascade	31-Oct-1989	31-Dec-1990
013	0015	11101	1	Suspended Particulate (Tsp)	10TH AVE SOUTH & 9TH STREET	Cascade	01-Jan-1977	31-Dec-1978
013	0015	12306	1	Nitrate (Tsp) Stp	10TH AVE SOUTH & 9TH STREET	Cascade	01-Jan-1978	31-Dec-1978
013	0015	12403	1	Sulfate (Tsp) Stp	10TH AVE SOUTH & 9TH STREET	Cascade	01-Jan-1978	31-Dec-1978
013	0015	21101	1	Total Dustfall (Sp)	10TH AVE SOUTH & 9TH STREET	Cascade	01-Jan-1978	31-Dec-1979
013	0015	42101	1	Carbon Monoxide	10TH AVE SOUTH & 9TH STREET	Cascade	01-Jan-1977	31-Dec-1979
013	0015	42410	1	Sulfation Rate	10TH AVE SOUTH & 9TH STREET	Cascade	01-Jan-1978	31-Dec-1978
013	0016	11101	1	Suspended Particulate (Tsp)	1100 SMELTER AVE (BLACK EAGLE)	Cascade	01-Jan-1971	31-Oct-1973
013	0016	11103	1	Benzene Sol.Organics(TSP)	1100 SMELTER AVE (BLACK EAGLE)	Cascade	01-Jan-1971	31-Dec-1972
013	0016	12103	1	Arsenic (Tsp) Stp	1100 SMELTER AVE (BLACK EAGLE)	Cascade	01-Jan-1971	31-Dec-1972
013	0016	12110	1	Cadmium (Tsp) Stp	1100 SMELTER AVE (BLACK EAGLE)	Cascade	01-Jan-1971	31-Dec-1972
013	0016	12128	1	Lead (Tsp) Stp	1100 SMELTER AVE (BLACK EAGLE)	Cascade	01-Jan-1971	31-Dec-1972
013	0016	12167	1	Zinc (Tsp) Stp	1100 SMELTER AVE (BLACK EAGLE)	Cascade	01-Jan-1971	31-Dec-1972
013	0017	11101	1	Suspended Particulate (Tsp)	DOWNTOWN, 301 2ND AVE NORTH	Cascade	02-Jun-1980	02-Jul-1990
013	0017	11101	2	Suspended Particulate (Tsp)	DOWNTOWN, 301 2ND AVE NORTH	Cascade	02-Jun-1980	31-Dec-1988
013	0017	12306	2	Nitrate (Tsp) Stp	DOWNTOWN, 301 2ND AVE NORTH	Cascade	01-Jan-1982	31-Dec-1982
013	0017	12306	1	Nitrate (Tsp) Stp	DOWNTOWN, 301 2ND AVE NORTH	Cascade	01-Jan-1982	31-Dec-1982
013	0017	12403	2	Sulfate (Tsp) Stp	DOWNTOWN, 301 2ND AVE NORTH	Cascade	01-Jan-1982	31-Dec-1982
013	0017	12403	1	Sulfate (Tsp) Stp	DOWNTOWN, 301 2ND AVE NORTH	Cascade	01-Jan-1982	31-Dec-1982
013	0017	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	DOWNTOWN, 301 2ND AVE NORTH	Cascade	01-Jan-1985	31-Dec-1987

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013	0017	81102	2	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	DOWNTOWN, 301 2ND AVE NORTH	Cascade	22-Mar-1987	31-Dec-1988
013	0018	42401	1	Sulfur Dioxide	FLEET, 1101 SMELTER AVE	Cascade	01-Jan-1972	31-Dec-1972
013	0021	42101	1	Carbon Monoxide	GREAT FALLS FEDERAL, 2425 10TH AVE SOUTH	Cascade	01-Jan-1980	31-Dec-1983
013	0021	61101	1	Wind Speed	GREAT FALLS FEDERAL, 2425 10TH AVE SOUTH	Cascade	01-Jan-1983	31-Dec-1983
013	0021	61102	1	Wind Direction	GREAT FALLS FEDERAL, 2425 10TH AVE SOUTH	Cascade	01-Jan-1983	31-Dec-1983
013	0022	11101	1	Suspended Particulate (Tsp)	FRANKLIN SCHOOL, 813 SECOND AVE SW	Cascade	01-Jan-1983	31-Dec-1984
013	0023	42401	1	Sulfur Dioxide	RIVER ROAD & GIANT SPRINGS JUNCTION	Cascade	01-Jan-1973	31-Dec-1973
013	0024	42401	1	Sulfur Dioxide	GF SPEEDWAY CLUBHOUSE (GREAT FALLS)	Cascade	01-Jan-1972	31-Dec-1973
013	0027	11101	1	Suspended Particulate (Tsp)	BUILDING SUPPLY BELT, MT	Cascade	01-Jan-1973	31-Dec-1975
013	0028	11101	1	Suspended Particulate (Tsp)	BLACKEAGLE POST OFFICE, 1321 SMELTER AVE	Cascade	01-Jan-1974	31-Dec-1975
013	0302	11101	1	Suspended Particulate (Tsp)	RESOURCE 89-SALEM PROJECT, N GREATFALLS	Cascade	01-Jan-1980	31-Dec-1981
013	0302	11101	2	Suspended Particulate (Tsp)	RESOURCE 89-SALEM PROJECT, N GREATFALLS	Cascade	01-Jan-1980	31-Dec-1981
013	0302	11203	1	Light Scatter	RESOURCE 89-SALEM PROJECT, N GREATFALLS	Cascade	01-Jan-1980	31-Dec-1981
013	0302	12105	1	Beryllium (Tsp) Stp	RESOURCE 89-SALEM PROJECT, N GREATFALLS	Cascade	01-Jan-1980	31-Dec-1981
013	0302	12167	1	Zinc (Tsp) Stp	RESOURCE 89-SALEM PROJECT, N GREATFALLS	Cascade	01-Jan-1980	31-Dec-1981
013	0302	12403	1	Sulfate (Tsp) Stp	RESOURCE 89-SALEM PROJECT, N GREATFALLS	Cascade	01-Jan-1980	31-Dec-1981
013	0302	42101	1	Carbon Monoxide	RESOURCE 89-SALEM PROJECT, N GREATFALLS	Cascade	01-Jan-1980	31-Dec-1981
013	0302	42401	1	Sulfur Dioxide	RESOURCE 89-SALEM PROJECT, N GREATFALLS	Cascade	01-Jan-1980	31-Dec-1981
013	0302	42601	1	Nitric Oxide	RESOURCE 89-SALEM PROJECT, N GREATFALLS	Cascade	01-Jan-1980	31-Dec-1981
013	0302	42602	1	Nitrogen Dioxide	RESOURCE 89-SALEM PROJECT, N GREATFALLS	Cascade	01-Jan-1980	31-Dec-1981
013	0302	42603	1	Oxides Of Nitrogen	RESOURCE 89-SALEM PROJECT, N GREATFALLS	Cascade	01-Jan-1980	31-Dec-1981
013	0302	44201	1	Ozone	RESOURCE 89-SALEM PROJECT, N GREATFALLS	Cascade	01-Jan-1980	31-Dec-1981
013	0302	61101	1	Wind Speed	RESOURCE 89-SALEM PROJECT, N GREATFALLS	Cascade	01-Jan-1980	31-Dec-1981
013	0302	61101	3	Wind Speed	RESOURCE 89-SALEM PROJECT, N GREATFALLS	Cascade	01-Jan-1980	31-Dec-1981
013	0302	61101	2	Wind Speed	RESOURCE 89-SALEM PROJECT, N GREATFALLS	Cascade	01-Jan-1980	31-Dec-1981
013	0302	61102	2	Wind Direction	RESOURCE 89-SALEM PROJECT, N GREATFALLS	Cascade	01-Jan-1980	31-Dec-1981
013	0302	61102	3	Wind Direction	RESOURCE 89-SALEM PROJECT, N GREATFALLS	Cascade	01-Jan-1980	31-Dec-1981
013	0302	61102	1	Wind Direction	RESOURCE 89-SALEM PROJECT, N GREATFALLS	Cascade	01-Jan-1980	31-Dec-1981
013	0302	62101	1	Outdoor Temperature	RESOURCE 89-SALEM PROJECT, N GREATFALLS	Cascade	01-Jan-1981	31-Dec-1981
013	0302	62106	1	Temperature Difference	RESOURCE 89-SALEM PROJECT, N GREATFALLS	Cascade	01-Jan-1981	31-Dec-1981
013	0302	62106	2	Temperature Difference	RESOURCE 89-SALEM PROJECT, N GREATFALLS	Cascade	01-Jan-1981	31-Dec-1981
013	0302	63301	1	Solar Radiation	RESOURCE 89-SALEM PROJECT, N GREATFALLS	Cascade	01-Jan-1980	31-Dec-1981
013	0302	64101	1	Barometric Pressure	RESOURCE 89-SALEM PROJECT, N GREATFALLS	Cascade	01-Jan-1980	31-Dec-1981

013	1016	11101	1	Suspended Particulate (Tsp)	KIWANIS PARK (MAPS STUDY)	Cascade	01-Jan-1978	31-Dec-1982
013	1016	12101	1	Aluminum (Tsp) Stp	KIWANIS PARK (MAPS STUDY)	Cascade	01-Jan-1978	31-Dec-1979
013	1016	12103	1	Arsenic (Tsp) Stp	KIWANIS PARK (MAPS STUDY)	Cascade	01-Jan-1978	31-Dec-1980
013	1016	12110	1	Cadmium (Tsp) Stp	KIWANIS PARK (MAPS STUDY)	Cascade	01-Jan-1978	31-Dec-1980
013	1016	12112	1	Chromium (Tsp) Stp	KIWANIS PARK (MAPS STUDY)	Cascade	01-Jan-1979	31-Dec-1980
013	1016	12114	1	Copper (Tsp) Stp	KIWANIS PARK (MAPS STUDY)	Cascade	01-Jan-1978	31-Dec-1980
013	1016	12126	1	Iron (Tsp) Stp	KIWANIS PARK (MAPS STUDY)	Cascade	01-Jan-1978	31-Dec-1979
013	1016	12128	1	Lead (Tsp) Stp	KIWANIS PARK (MAPS STUDY)	Cascade	01-Jan-1978	31-Dec-1980
013	1016	12132	1	Manganese (Tsp) Stp	KIWANIS PARK (MAPS STUDY)	Cascade	01-Jan-1978	31-Dec-1980
013	1016	12136	1	Nickel (Tsp) Stp	KIWANIS PARK (MAPS STUDY)	Cascade	01-Jan-1978	31-Dec-1980
013	1016	12164	1	Vanadium (Tsp) Stp	KIWANIS PARK (MAPS STUDY)	Cascade	01-Jan-1979	31-Dec-1980
013	1016	12167	1	Zinc (Tsp) Stp	KIWANIS PARK (MAPS STUDY)	Cascade	01-Jan-1978	31-Dec-1979
013	1016	12306	1	Nitrate (Tsp) Stp	KIWANIS PARK (MAPS STUDY)	Cascade	01-Jan-1978	31-Dec-1980
013	1016	12403	1	Sulfate (Tsp) Stp	KIWANIS PARK (MAPS STUDY)	Cascade	01-Jan-1978	31-Dec-1980
013	1016	42401	1	Sulfur Dioxide	KIWANIS PARK (MAPS STUDY)	Cascade	01-Jan-1979	31-Dec-1980
013	1016	42602	1	Nitrogen Dioxide	KIWANIS PARK (MAPS STUDY)	Cascade	01-Jan-1979	31-Dec-1980
013	1016	61101	1	Wind Speed	KIWANIS PARK (MAPS STUDY)	Cascade	01-Jan-1980	31-Dec-1980
013	1016	61102	1	Wind Direction	KIWANIS PARK (MAPS STUDY)	Cascade	01-Jan-1980	31-Dec-1980
013	1018	11101	1	Suspended Particulate (Tsp)	RIVERVIEW SCHOOL, 100 SMELTER AVE	Cascade	01-Jan-1980	31-Dec-1982
013	1019	11101	1	Suspended Particulate (Tsp)	1321 SMELTER AVE BLACK EAGLE	Cascade	01-Jan-1980	31-Dec-1987
013	1019	12103	1	Arsenic (Tsp) Stp	1321 SMELTER AVE BLACK EAGLE	Cascade	01-Jan-1980	31-Dec-1980
013	1019	12112	1	Chromium (Tsp) Stp	1321 SMELTER AVE BLACK EAGLE	Cascade	01-Jan-1980	31-Dec-1980
013	1019	12136	1	Nickel (Tsp) Stp	1321 SMELTER AVE BLACK EAGLE	Cascade	01-Jan-1980	31-Dec-1980
013	1019	12164	1	Vanadium (Tsp) Stp	1321 SMELTER AVE BLACK EAGLE	Cascade	01-Jan-1980	31-Dec-1980
013	1019	12306	1	Nitrate (Tsp) Stp	1321 SMELTER AVE BLACK EAGLE	Cascade	01-Jan-1980	31-Dec-1982
013	1019	12403	1	Sulfate (Tsp) Stp	1321 SMELTER AVE BLACK EAGLE	Cascade	01-Jan-1980	31-Dec-1982
013	1020	11101	1	Suspended Particulate (Tsp)	LINCOLN SCHOOL, 3625 27TH SOUTH	Cascade	01-Jan-1980	31-Dec-1982
013	1023	42101	1	Carbon Monoxide	PARDIS CLINIC, 826 10TH AVE SOUTH	Cascade	01-Nov-1983	26-Oct-1989
013	1023	61101	1	Wind Speed	PARDIS CLINIC, 826 10TH AVE SOUTH	Cascade	01-Nov-1983	26-Oct-1989
013	1023	61102	1	Wind Direction	PARDIS CLINIC, 826 10TH AVE SOUTH	Cascade	01-Nov-1983	26-Oct-1989
013	1024	11101	1	Suspended Particulate (Tsp)	SUNNYSIDE SCHOOL, 1800 - 19TH AVE SOUTH	Cascade	03-Jan-1987	28-Feb-1990
013	1025	42101	1	Carbon Monoxide	SKYWAY CONOCO, 70010TH AVE SOUTH	Cascade	01-Oct-1989	23-Jun-2001
013	1025	61101	1	Wind Speed	SKYWAY CONOCO, 70010TH AVE SOUTH	Cascade	09-Nov-1989	20-Oct-1995

013	1025	61102	1	Wind Direction	SKYWAY CONOCO, 70010TH AVE SOUTH	Cascade	09-Nov-1989	20-Oct-1995
013	1025	61106	1	Std Dev Hz Wind Direction	SKYWAY CONOCO, 70010TH AVE SOUTH	Cascade	01-Oct-1990	20-Oct-1995
013	1026	68101	1	Sample Flow Rate- Cv	GT FALLS HIGHSCHOOL CRN 3RD S & 17TH E	Cascade	01-Jan-2000	01-Jan-2007
013	1026	68102	1	Sample Volume	GT FALLS HIGHSCHOOL CRN 3RD S & 17TH E	Cascade	01-Jan-2000	01-Jan-2007
013	1026	68103	1	Ambient Min Temperature	GT FALLS HIGHSCHOOL CRN 3RD S & 17TH E	Cascade	01-Jan-2000	01-Jan-2007
013	1026	68104	1	Ambient Max Temperature	GT FALLS HIGHSCHOOL CRN 3RD S & 17TH E	Cascade	01-Jan-2000	01-Jan-2007
013	1026	68105	1	Ambient Temperature	GT FALLS HIGHSCHOOL CRN 3RD S & 17TH E	Cascade	01-Jan-2000	
013	1026	68106	1	Sample Min Baro Pressure	GT FALLS HIGHSCHOOL CRN 3RD S & 17TH E	Cascade	01-Jan-2000	01-Jan-2007
013	1026	68107	1	Sample Max Baro Pressure	GT FALLS HIGHSCHOOL CRN 3RD S & 17TH E	Cascade	01-Jan-2000	01-Jan-2007
013	1026	68108	1	Sample Baro Pressure	GT FALLS HIGHSCHOOL CRN 3RD S & 17TH E	Cascade	01-Jan-2000	
013	1026	68109	1	Elapsed Sample Time	GT FALLS HIGHSCHOOL CRN 3RD S & 17TH E	Cascade	01-Jan-2000	01-Jan-2007
013	1026	88101	1	PM <sub>2.5</sub> - Local Conditions	GT FALLS HIGHSCHOOL CRN 3RD S & 17TH E	Cascade	01-Jan-2000	
013	2000	42401	1	Sulfur Dioxide	WIRE MILL RD/MT REFINING/.6MI E OF HAVRE	Cascade	14-Nov-1994	30-Apr-2000
013	2000	61101	1	Wind Speed	WIRE MILL RD/MT REFINING/.6MI E OF HAVRE	Cascade	14-Nov-1994	30-Apr-2000
013	2000	61102	1	Wind Direction	WIRE MILL RD/MT REFINING/.6MI E OF HAVRE	Cascade	14-Nov-1994	30-Apr-2000
013	2000	61106	1	Std Dev Hz Wind Direction	WIRE MILL RD/MT REFINING/.6MI E OF HAVRE	Cascade	14-Nov-1994	30-Apr-2000
013	2001	42401	1	Sulfur Dioxide	1301 27TH AVE NE BLACK EAGLE RACE TRACK	Cascade	03-May-2000	
013	2001	42401	1	Sulfur Dioxide	1301 27TH AVE NE BLACK EAGLE RACE TRACK	Cascade	20-Apr-2000	20-Apr-2000
013	2001	61101	1	Wind Speed	1301 27TH AVE NE BLACK EAGLE RACE TRACK	Cascade	03-May-2000	
013	2001	61101	1	Wind Speed	1301 27TH AVE NE BLACK EAGLE RACE TRACK	Cascade	20-Apr-2000	20-Apr-2000
013	2001	61102	1	Wind Direction	1301 27TH AVE NE BLACK EAGLE RACE TRACK	Cascade	20-Apr-2000	20-Apr-2000
013	2001	61102	1	Wind Direction	1301 27TH AVE NE BLACK EAGLE RACE TRACK	Cascade	03-May-2000	
013	2001	61106	1	Std Dev Hz Wind Direction	1301 27TH AVE NE BLACK EAGLE RACE TRACK	Cascade	20-Apr-2000	20-Apr-2000
013	2001	61106	1	Std Dev Hz Wind Direction	1301 27TH AVE NE BLACK EAGLE RACE TRACK	Cascade	03-May-2000	
017	0001	11101	1	Suspended Particulate (Tsp)	MAIN AND HAYES	Custer	01-Jan-1972	31-Dec-1973
017	0001	11103	1	Benzene Sol.Organics(TSP)	MAIN AND HAYES	Custer	01-Jan-1972	31-Dec-1973
017	0001	12110	1	Cadmium (Tsp) Stp	MAIN AND HAYES	Custer	01-Jan-1972	31-Dec-1973
017	0001	12128	1	Lead (Tsp) Stp	MAIN AND HAYES	Custer	01-Jan-1972	31-Dec-1973
017	0001	12167	1	Zinc (Tsp) Stp	MAIN AND HAYES	Custer	01-Jan-1972	31-Dec-1973
017	0003	11101	1	Suspended Particulate (Tsp)	PCA BUILDING, MAIN & HAYES	Custer	01-Jan-1980	31-Dec-1983
017	0004	11101	1	Suspended Particulate (Tsp)	LITTLEFIELD HILLTOP	Custer	01-Jan-1976	31-Dec-1978
019	0001	11101	1	Suspended Particulate (Tsp)	SCOBEY BORDER #1, PORT OF ENTRY, SCOBEY	Daniels	01-Jan-1975	31-Dec-1985
019	0001	11203	1	Light Scatter	SCOBEY BORDER #1, PORT OF ENTRY, SCOBEY	Daniels	01-Jan-1979	31-Dec-1983

019	0001	12306	1	Nitrate (Tsp) Stp	SCOBEY BORDER #1, PORT OF ENTRY, SCOBEY	Daniels	01-Jan-1979	31-Dec-1984
019	0001	12403	1	Sulfate (Tsp) Stp	SCOBEY BORDER #1, PORT OF ENTRY, SCOBEY	Daniels	01-Jan-1979	31-Dec-1984
019	0001	42401	1	Sulfur Dioxide	SCOBEY BORDER #1, PORT OF ENTRY, SCOBEY	Daniels	01-Jan-1979	31-Dec-1985
019	0001	42401	2	Sulfur Dioxide	SCOBEY BORDER #1, PORT OF ENTRY, SCOBEY	Daniels	01-Jan-1976	31-Dec-1979
019	0001	42410	2	Sulfation Rate	SCOBEY BORDER #1, PORT OF ENTRY, SCOBEY	Daniels	01-Jan-1984	31-Dec-1985
019	0001	42410	1	Sulfation Rate	SCOBEY BORDER #1, PORT OF ENTRY, SCOBEY	Daniels	01-Jan-1984	31-Dec-1987
019	0001	42602	1	Nitrogen Dioxide	SCOBEY BORDER #1, PORT OF ENTRY, SCOBEY	Daniels	01-Jan-1976	31-Dec-1979
019	0001	61101	1	Wind Speed	SCOBEY BORDER #1, PORT OF ENTRY, SCOBEY	Daniels	01-Jan-1979	31-Dec-1983
019	0001	61102	1	Wind Direction	SCOBEY BORDER #1, PORT OF ENTRY, SCOBEY	Daniels	01-Jan-1979	31-Dec-1983
019	0001	62101	1	Outdoor Temperature	SCOBEY BORDER #1, PORT OF ENTRY, SCOBEY	Daniels	01-Jan-1978	31-Dec-1983
019	0001	62103	1	Dew Point	SCOBEY BORDER #1, PORT OF ENTRY, SCOBEY	Daniels	01-Jan-1978	31-Dec-1979
019	0001	63301	4	Solar Radiation	SCOBEY BORDER #1, PORT OF ENTRY, SCOBEY	Daniels	01-Jan-1979	31-Dec-1980
019	0001	63301	6	Solar Radiation	SCOBEY BORDER #1, PORT OF ENTRY, SCOBEY	Daniels	01-Jan-1979	31-Dec-1980
019	0001	63301	2	Solar Radiation	SCOBEY BORDER #1, PORT OF ENTRY, SCOBEY	Daniels	01-Jan-1980	31-Dec-1982
019	0001	63301	5	Solar Radiation	SCOBEY BORDER #1, PORT OF ENTRY, SCOBEY	Daniels	01-Jan-1979	31-Dec-1979
019	0001	63301	1	Solar Radiation	SCOBEY BORDER #1, PORT OF ENTRY, SCOBEY	Daniels	01-Jan-1980	31-Dec-1983
019	0001	63301	3	Solar Radiation	SCOBEY BORDER #1, PORT OF ENTRY, SCOBEY	Daniels	01-Jan-1980	31-Dec-1981
019	0001	64101	1	Barometric Pressure	SCOBEY BORDER #1, PORT OF ENTRY, SCOBEY	Daniels	01-Jan-1979	31-Dec-1981
019	0002	11101	1	Suspended Particulate (Tsp)	RICHARDSON RES. 1 MILE N OF SCOBEY MT	Daniels	01-Jan-1977	31-Dec-1985
019	0002	12306	1	Nitrate (Tsp) Stp	RICHARDSON RES. 1 MILE N OF SCOBEY MT	Daniels	01-Jan-1979	31-Dec-1984
019	0002	12403	1	Sulfate (Tsp) Stp	RICHARDSON RES. 1 MILE N OF SCOBEY MT	Daniels	01-Jan-1979	31-Dec-1984
019	0002	42410	2	Sulfation Rate	RICHARDSON RES. 1 MILE N OF SCOBEY MT	Daniels	01-Jan-1984	31-Dec-1985
019	0002	42410	1	Sulfation Rate	RICHARDSON RES. 1 MILE N OF SCOBEY MT	Daniels	01-Jan-1984	31-Jan-1991
019	0002	61101	1	Wind Speed	RICHARDSON RES. 1 MILE N OF SCOBEY MT	Daniels	01-Jan-1979	31-Dec-1979
019	0002	61102	1	Wind Direction	RICHARDSON RES. 1 MILE N OF SCOBEY MT	Daniels	01-Jan-1979	31-Dec-1979
019	0002	62101	1	Outdoor Temperature	RICHARDSON RES. 1 MILE N OF SCOBEY MT	Daniels	01-Jan-1978	31-Dec-1979
019	0003	11101	1	Suspended Particulate (Tsp)	ENGBERG RANCH, SCOBEY, MONTANA	Daniels	01-Jan-1977	31-Dec-1980
019	0003	12306	1	Nitrate (Tsp) Stp	ENGBERG RANCH, SCOBEY, MONTANA	Daniels	01-Jan-1979	31-Dec-1980
019	0003	12403	1	Sulfate (Tsp) Stp	ENGBERG RANCH, SCOBEY, MONTANA	Daniels	01-Jan-1979	31-Dec-1980
019	0004	11101	1	Suspended Particulate (Tsp)	HANRAHAN RANCH, 5.5 MI WEST OF WHITETAIL	Daniels	01-Jan-1980	31-Dec-1985
019	0004	12306	1	Nitrate (Tsp) Stp	HANRAHAN RANCH, 5.5 MI WEST OF WHITETAIL	Daniels	01-Jan-1980	31-Dec-1984
019	0004	12403	1	Sulfate (Tsp) Stp	HANRAHAN RANCH, 5.5 MI WEST OF WHITETAIL	Daniels	01-Jan-1980	31-Dec-1984
019	0004	42401	1	Sulfur Dioxide	HANRAHAN RANCH, 5.5 MI WEST OF WHITETAIL	Daniels	01-Jan-1980	31-Dec-1985

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019	0004	42410	2	Sulfation Rate	HANRAHAN RANCH, 5.5 MI WEST OF WHITETAIL	Daniels	01-Jan-1984	31-Dec-1987
019	0004	42410	1	Sulfation Rate	HANRAHAN RANCH, 5.5 MI WEST OF WHITETAIL	Daniels	01-Jan-1984	31-Dec-1987
019	0004	61101	1	Wind Speed	HANRAHAN RANCH, 5.5 MI WEST OF WHITETAIL	Daniels	01-Jan-1981	31-Dec-1985
019	0004	61102	1	Wind Direction	HANRAHAN RANCH, 5.5 MI WEST OF WHITETAIL	Daniels	01-Jan-1980	31-Dec-1985
019	0004	62101	1	Outdoor Temperature	HANRAHAN RANCH, 5.5 MI WEST OF WHITETAIL	Daniels	01-Jan-1984	31-Dec-1985
019	0005	42410	2	Sulfation Rate	#3 MICROWAVE TOWER WHITETAIL MT	Daniels	01-Jan-1984	31-Dec-1985
019	0005	42410	1	Sulfation Rate	#3 MICROWAVE TOWER WHITETAIL MT	Daniels	01-Jan-1984	31-Dec-1986
019	0006	42410	2	Sulfation Rate	FLAXVILLE, WILSON ST & 2ND AVE	Daniels	01-Jan-1984	31-Dec-1985
019	0006	42410	1	Sulfation Rate	FLAXVILLE, WILSON ST & 2ND AVE	Daniels	01-Jan-1984	31-Jan-1991
019	0007	42410	2	Sulfation Rate	#6 TV TOWER HILL SCOBEY MT	Daniels	01-Jan-1984	31-Dec-1985
019	0007	42410	1	Sulfation Rate	#6 TV TOWER HILL SCOBEY MT	Daniels	01-Jan-1984	31-Jan-1991
019	0008	42410	2	Sulfation Rate	SCOBEY DOWNTOWN	Daniels	01-Jan-1984	31-Dec-1985
019	0008	42410	1	Sulfation Rate	SCOBEY DOWNTOWN	Daniels	01-Jan-1984	31-Jan-1991
019	0009	42410	2	Sulfation Rate	FOUR BUTTES, NORTH OF RTE 248 NEAR SCOBE	Daniels	01-Jan-1984	31-Dec-1985
019	0009	42410	1	Sulfation Rate	FOUR BUTTES, NORTH OF RTE 248 NEAR SCOBE	Daniels	01-Jan-1984	31-Jan-1991
019	0010	11101	1	Suspended Particulate (Tsp)	MARLENEE RANCH, SCOBEY MT	Daniels	01-Jan-1986	31-Dec-1987
019	0010	42401	1	Sulfur Dioxide	MARLENEE RANCH, SCOBEY MT	Daniels	01-Jan-1976	31-Dec-1987
019	0010	61101	1	Wind Speed	MARLENEE RANCH, SCOBEY MT	Daniels	01-Oct-1986	31-Dec-1987
019	0010	61102	1	Wind Direction	MARLENEE RANCH, SCOBEY MT	Daniels	01-Oct-1986	31-Dec-1987
019	0010	62101	1	Outdoor Temperature	MARLENEE RANCH, SCOBEY MT	Daniels	01-Oct-1986	31-Dec-1987
021	0001	11101	1	Suspended Particulate (Tsp)	GLENDIVE MICROWAVE, BURMAN RANCH	Dawson	01-Jan-1974	31-Dec-1978
021	0001	61101	1	Wind Speed	GLENDIVE MICROWAVE, BURMAN RANCH	Dawson	01-Jan-1976	31-Dec-1976
021	0001	61102	1	Wind Direction	GLENDIVE MICROWAVE, BURMAN RANCH	Dawson	01-Jan-1976	31-Dec-1976
021	0002	11101	1	Suspended Particulate (Tsp)	MAGELSKY (LINDSAY)	Dawson	01-Jan-1974	31-Dec-1977
021	0002	12306	1	Nitrate (Tsp) Stp	MAGELSKY (LINDSAY)	Dawson	01-Jan-1977	31-Dec-1977
021	0002	12306	2	Nitrate (Tsp) Stp	MAGELSKY (LINDSAY)	Dawson	01-Jan-1976	31-Dec-1976
021	0002	12403	1	Sulfate (Tsp) Stp	MAGELSKY (LINDSAY)	Dawson	01-Jan-1976	31-Dec-1977
021	0003	11101	1	Suspended Particulate (Tsp)	MAGELSKY (LINDSAY)	Dawson	01-Jan-1974	31-Dec-1978
021	0003	12306	1	Nitrate (Tsp) Stp	MAGELSKY (LINDSAY)	Dawson	01-Jan-1977	31-Dec-1977
021	0003	12306	2	Nitrate (Tsp) Stp	MAGELSKY (LINDSAY)	Dawson	01-Jan-1976	31-Dec-1976
021	0003	12403	1	Sulfate (Tsp) Stp	MAGELSKY (LINDSAY)	Dawson	01-Jan-1976	31-Dec-1977
021	0004	11101	1	Suspended Particulate (Tsp)	KVGN TV TOWER	Dawson	01-Jan-1978	31-Dec-1982
021	0004	61101	1	Wind Speed	KVGN TV TOWER	Dawson	01-Jan-1974	24-Jun-1985

021	0004	61102	1	Wind Direction	KVGN TV TOWER	Dawson	01-Jan-1974	24-Jun-1985
021	1001	11101	1	Suspended Particulate (Tsp)	DAWSON COMMUNITY COLLEGE S OF GLENDIVE	Dawson	01-Jan-1980	31-Dec-1982
021	1002	11101	1	Suspended Particulate (Tsp)	MEDICAL ARTS CENTER, OILWORTH & AMES	Dawson	01-Jan-1982	31-Dec-1984
023	0001	11101	1	Suspended Particulate (Tsp)	S&N CEMENT EAST OF ANACONDA	Deer Lodge	01-Jan-1971	31-Dec-1972
023	0001	11103	1	Benzene Sol.Organics(TSP)	S&N CEMENT EAST OF ANACONDA	Deer Lodge	01-Jan-1971	31-Dec-1972
023	0001	12103	1	Arsenic (Tsp) Stp	S&N CEMENT EAST OF ANACONDA	Deer Lodge	01-Jan-1971	31-Dec-1971
023	0001	12110	1	Cadmium (Tsp) Stp	S&N CEMENT EAST OF ANACONDA	Deer Lodge	01-Jan-1971	31-Dec-1971
023	0001	12128	1	Lead (Tsp) Stp	S&N CEMENT EAST OF ANACONDA	Deer Lodge	01-Jan-1971	31-Dec-1971
023	0001	12167	1	Zinc (Tsp) Stp	S&N CEMENT EAST OF ANACONDA	Deer Lodge	01-Jan-1971	31-Dec-1971
023	0003	11101	1	Suspended Particulate (Tsp)	KUCERA RESIDENCE MILL CREEK	Deer Lodge	01-Jan-1972	31-Dec-1973
023	0003	12103	1	Arsenic (Tsp) Stp	KUCERA RESIDENCE MILL CREEK	Deer Lodge	01-Jan-1972	31-Dec-1972
023	0003	12110	1	Cadmium (Tsp) Stp	KUCERA RESIDENCE MILL CREEK	Deer Lodge	01-Jan-1972	31-Dec-1972
023	0003	12128	1	Lead (Tsp) Stp	KUCERA RESIDENCE MILL CREEK	Deer Lodge	01-Jan-1972	31-Dec-1972
023	0003	12167	1	Zinc (Tsp) Stp	KUCERA RESIDENCE MILL CREEK	Deer Lodge	01-Jan-1972	31-Dec-1972
023	0003	42401	1	Sulfur Dioxide	KUCERA RESIDENCE MILL CREEK	Deer Lodge	01-Jan-1972	31-Dec-1973
023	0004	11101	1	Suspended Particulate (Tsp)	HIWAY JUNCTION	Deer Lodge	01-Jan-1975	31-Dec-1987
023	0004	12101	1	Aluminum (Tsp) Stp	HIWAY JUNCTION	Deer Lodge	01-Jan-1978	31-Dec-1985
023	0004	12103	1	Arsenic (Tsp) Stp	HIWAY JUNCTION	Deer Lodge	01-Jan-1978	31-Dec-1987
023	0004	12110	1	Cadmium (Tsp) Stp	HIWAY JUNCTION	Deer Lodge	06-Feb-1977	31-Dec-1985
023	0004	12112	1	Chromium (Tsp) Stp	HIWAY JUNCTION	Deer Lodge	01-Jul-1978	31-Dec-1985
023	0004	12114	1	Copper (Tsp) Stp	HIWAY JUNCTION	Deer Lodge	02-Jan-1978	31-Dec-1985
023	0004	12126	1	Iron (Tsp) Stp	HIWAY JUNCTION	Deer Lodge	01-Jan-1978	31-Dec-1979
023	0004	12128	1	Lead (Tsp) Stp	HIWAY JUNCTION	Deer Lodge	01-Jan-1978	31-Dec-1985
023	0004	12132	1	Manganese (Tsp) Stp	HIWAY JUNCTION	Deer Lodge	01-Jan-1978	31-Dec-1980
023	0004	12136	1	Nickel (Tsp) Stp	HIWAY JUNCTION	Deer Lodge	01-Jan-1978	31-Dec-1980
023	0004	12164	1	Vanadium (Tsp) Stp	HIWAY JUNCTION	Deer Lodge	01-Jan-1978	31-Dec-1980
023	0004	12167	1	Zinc (Tsp) Stp	HIWAY JUNCTION	Deer Lodge	01-Jan-1978	31-Dec-1985
023	0004	12306	1	Nitrate (Tsp) Stp	HIWAY JUNCTION	Deer Lodge	01-Jan-1978	31-Dec-1980
023	0004	12403	2	Sulfate (Tsp) Stp	HIWAY JUNCTION	Deer Lodge	01-Jan-1978	31-Dec-1978
023	0004	12403	1	Sulfate (Tsp) Stp	HIWAY JUNCTION	Deer Lodge	01-Jan-1978	31-Dec-1980
023	0004	42401	1	Sulfur Dioxide	HIWAY JUNCTION	Deer Lodge	01-Jan-1972	31-Aug-1979
023	0004	61101	2	Wind Speed	HIWAY JUNCTION	Deer Lodge	01-Jan-1978	31-Dec-1979
023	0004	61101	1	Wind Speed	HIWAY JUNCTION	Deer Lodge	01-Jan-1976	31-Dec-1979

023	0004	61102	2	Wind Direction	HIWAY JUNCTION	Deer Lodge	01-Jan-1978	31-Dec-1979
023	0004	61102	1	Wind Direction	HIWAY JUNCTION	Deer Lodge	01-Jan-1976	31-Dec-1979
023	0005	11101	1	Suspended Particulate (Tsp)	ANACONDA JR HI CORNER OF 4TH AND MAIN	Deer Lodge	01-Jan-1971	31-Dec-1972
023	0005	11103	1	Benzene Sol.Organics(TSP)	ANACONDA JR HI CORNER OF 4TH AND MAIN	Deer Lodge	01-Jan-1971	31-Dec-1971
023	0005	12103	1	Arsenic (Tsp) Stp	ANACONDA JR HI CORNER OF 4TH AND MAIN	Deer Lodge	01-Jan-1971	31-Dec-1972
023	0005	12110	1	Cadmium (Tsp) Stp	ANACONDA JR HI CORNER OF 4TH AND MAIN	Deer Lodge	01-Jan-1971	31-Dec-1972
023	0005	12128	1	Lead (Tsp) Stp	ANACONDA JR HI CORNER OF 4TH AND MAIN	Deer Lodge	01-Jan-1971	31-Dec-1972
023	0005	12167	1	Zinc (Tsp) Stp	ANACONDA JR HI CORNER OF 4TH AND MAIN	Deer Lodge	01-Jan-1971	31-Dec-1972
023	0005	12202	1	Fluoride (Tsp) Stp	ANACONDA JR HI CORNER OF 4TH AND MAIN	Deer Lodge	01-Jan-1971	31-Dec-1971
023	0005	12209	1	Fluoride (Paper Samplers)	ANACONDA JR HI CORNER OF 4TH AND MAIN	Deer Lodge	01-Jan-1971	31-Dec-1971
023	0005	12403	1	Sulfate (Tsp) Stp	ANACONDA JR HI CORNER OF 4TH AND MAIN	Deer Lodge	01-Jan-1971	31-Dec-1971
023	0006	11101	1	Suspended Particulate (Tsp)	KIRKEBY RESIDENCE, 1200 E 6TH	Deer Lodge	01-Jan-1972	31-Dec-1972
023	0006	12103	1	Arsenic (Tsp) Stp	KIRKEBY RESIDENCE, 1200 E 6TH	Deer Lodge	01-Jan-1972	31-Dec-1972
023	0006	12110	1	Cadmium (Tsp) Stp	KIRKEBY RESIDENCE, 1200 E 6TH	Deer Lodge	01-Jan-1972	31-Dec-1972
023	0006	12128	1	Lead (Tsp) Stp	KIRKEBY RESIDENCE, 1200 E 6TH	Deer Lodge	01-Jan-1972	31-Dec-1972
023	0006	12167	1	Zinc (Tsp) Stp	KIRKEBY RESIDENCE, 1200 E 6TH	Deer Lodge	01-Jan-1972	31-Dec-1972
023	0007	11101	1	Suspended Particulate (Tsp)	LINCOLN SCHOOL	Deer Lodge	01-Jan-1978	31-Dec-1986
023	0007	11101	2	Suspended Particulate (Tsp)	LINCOLN SCHOOL	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0007	12101	1	Aluminum (Tsp) Stp	LINCOLN SCHOOL	Deer Lodge	01-Jan-1978	31-Dec-1985
023	0007	12103	2	Arsenic (Tsp) Stp	LINCOLN SCHOOL	Deer Lodge	01-Jan-1985	31-Dec-1985
023	0007	12103	1	Arsenic (Tsp) Stp	LINCOLN SCHOOL	Deer Lodge	01-Jan-1978	31-Dec-1986
023	0007	12110	1	Cadmium (Tsp) Stp	LINCOLN SCHOOL	Deer Lodge	01-Jan-1978	31-Dec-1985
023	0007	12112	1	Chromium (Tsp) Stp	LINCOLN SCHOOL	Deer Lodge	01-Jan-1978	31-Dec-1985
023	0007	12114	1	Copper (Tsp) Stp	LINCOLN SCHOOL	Deer Lodge	01-Jan-1978	31-Dec-1985
023	0007	12126	1	Iron (Tsp) Stp	LINCOLN SCHOOL	Deer Lodge	01-Jan-1978	31-Dec-1979
023	0007	12128	3	Lead (Tsp) Stp	LINCOLN SCHOOL	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0007	12128	1	Lead (Tsp) Stp	LINCOLN SCHOOL	Deer Lodge	01-Jan-1978	31-Dec-1985
023	0007	12132	1	Manganese (Tsp) Stp	LINCOLN SCHOOL	Deer Lodge	01-Jan-1978	31-Dec-1980
023	0007	12136	1	Nickel (Tsp) Stp	LINCOLN SCHOOL	Deer Lodge	01-Jan-1978	31-Dec-1980
023	0007	12164	1	Vanadium (Tsp) Stp	LINCOLN SCHOOL	Deer Lodge	01-Jan-1978	31-Dec-1980
023	0007	12167	1	Zinc (Tsp) Stp	LINCOLN SCHOOL	Deer Lodge	01-Jan-1978	31-Dec-1985
023	0007	12306	1	Nitrate (Tsp) Stp	LINCOLN SCHOOL	Deer Lodge	01-Jan-1978	31-Dec-1980
023	0007	12403	2	Sulfate (Tsp) Stp	LINCOLN SCHOOL	Deer Lodge	01-Jan-1978	31-Dec-1978

023	0007	12403	1	Sulfate (Tsp) Stp	LINCOLN SCHOOL	Deer Lodge	01-Jan-1978	31-Dec-1980
023	0007	42401	1	Sulfur Dioxide	LINCOLN SCHOOL	Deer Lodge	01-Jan-1978	31-Dec-1981
023	0007	42602	1	Nitrogen Dioxide	LINCOLN SCHOOL	Deer Lodge	01-Jan-1978	31-Dec-1979
023	0007	43101	1	Total Hydrocarbons	LINCOLN SCHOOL	Deer Lodge	01-Jan-1979	31-Dec-1979
023	0007	44201	1	Ozone	LINCOLN SCHOOL	Deer Lodge	01-Jan-1979	31-Dec-1980
023	0007	61101	1	Wind Speed	LINCOLN SCHOOL	Deer Lodge	01-Jan-1978	31-Dec-1981
023	0007	61102	1	Wind Direction	LINCOLN SCHOOL	Deer Lodge	01-Jan-1978	31-Dec-1981
023	0007	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	LINCOLN SCHOOL	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0007	82101	1	Aluminum PM <sub>10</sub> Stp	LINCOLN SCHOOL	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0007	82103	1	Arsenic PM <sub>10</sub> Stp	LINCOLN SCHOOL	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0007	82110	1	Cadmium PM <sub>10</sub> Stp	LINCOLN SCHOOL	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0007	82112	1	Chromium PM <sub>10</sub> Stp	LINCOLN SCHOOL	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0007	82114	1	Copper PM <sub>10</sub> Stp	LINCOLN SCHOOL	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0007	82128	1	Lead PM <sub>10</sub> Stp	LINCOLN SCHOOL	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0007	82167	1	Zinc PM <sub>10</sub> Stp	LINCOLN SCHOOL	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0008	11101	1	Suspended Particulate (Tsp)	LINCOLN SCHOOL #2	Deer Lodge	01-Jan-1978	31-Dec-1978
023	0008	12101	1	Aluminum (Tsp) Stp	LINCOLN SCHOOL #2	Deer Lodge	01-Jan-1978	31-Dec-1978
023	0008	12103	1	Arsenic (Tsp) Stp	LINCOLN SCHOOL #2	Deer Lodge	01-Jan-1978	31-Dec-1978
023	0008	12110	1	Cadmium (Tsp) Stp	LINCOLN SCHOOL #2	Deer Lodge	01-Jan-1978	31-Dec-1978
023	0008	12112	1	Chromium (Tsp) Stp	LINCOLN SCHOOL #2	Deer Lodge	01-Jan-1978	31-Dec-1978
023	0008	12114	1	Copper (Tsp) Stp	LINCOLN SCHOOL #2	Deer Lodge	01-Jan-1978	31-Dec-1978
023	0008	12126	1	Iron (Tsp) Stp	LINCOLN SCHOOL #2	Deer Lodge	01-Jan-1978	31-Dec-1978
023	0008	12128	1	Lead (Tsp) Stp	LINCOLN SCHOOL #2	Deer Lodge	01-Jan-1978	31-Dec-1978
023	0008	12132	1	Manganese (Tsp) Stp	LINCOLN SCHOOL #2	Deer Lodge	01-Jan-1978	31-Dec-1978
023	0008	12136	1	Nickel (Tsp) Stp	LINCOLN SCHOOL #2	Deer Lodge	01-Jan-1978	31-Dec-1978
023	0008	12167	1	Zinc (Tsp) Stp	LINCOLN SCHOOL #2	Deer Lodge	01-Jan-1978	31-Dec-1978
023	0008	12306	1	Nitrate (Tsp) Stp	LINCOLN SCHOOL #2	Deer Lodge	01-Jan-1978	31-Dec-1978
023	0008	12403	1	Sulfate (Tsp) Stp	LINCOLN SCHOOL #2	Deer Lodge	01-Jan-1978	31-Dec-1978
023	0009	42401	1	Sulfur Dioxide	WARM SPRINGS	Deer Lodge	01-Jan-1971	31-Dec-1972
023	0010	61101	1	Wind Speed	ARCO COAL - TERESSA ANN TERRACE	Deer Lodge	01-Aug-1989	30-Sep-1992
023	0010	61102	1	Wind Direction	ARCO COAL - TERESSA ANN TERRACE	Deer Lodge	01-Aug-1989	30-Sep-1992
023	0010	61106	1	Std Dev Hz Wind Direction	ARCO COAL - TERESSA ANN TERRACE	Deer Lodge	01-Aug-1989	30-Sep-1992
023	0010	61120	1	Atmospheric Stability	ARCO COAL - TERESSA ANN TERRACE	Deer Lodge	01-Aug-1989	30-Sep-1992

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023	0010	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	ARCO COAL - TERESSA ANN TERRACE	Deer Lodge	01-Jul-1989	30-Sep-1992
023	0010	82103	1	Arsenic PM <sub>10</sub> Stp	ARCO COAL - TERESSA ANN TERRACE	Deer Lodge	01-Jul-1989	30-Sep-1992
023	0010	82105	1	Beryllium PM <sub>10</sub> Stp	ARCO COAL - TERESSA ANN TERRACE	Deer Lodge	01-Jul-1989	30-Sep-1992
023	0010	82110	1	Cadmium PM <sub>10</sub> Stp	ARCO COAL - TERESSA ANN TERRACE	Deer Lodge	01-Jul-1989	30-Sep-1992
023	0010	82114	1	Copper PM <sub>10</sub> Stp	ARCO COAL - TERESSA ANN TERRACE	Deer Lodge	01-Jul-1989	30-Sep-1992
023	0010	82128	1	Lead PM <sub>10</sub> Stp	ARCO COAL - TERESSA ANN TERRACE	Deer Lodge	01-Jul-1989	30-Sep-1992
023	0010	82167	1	Zinc PM <sub>10</sub> Stp	ARCO COAL - TERESSA ANN TERRACE	Deer Lodge	01-Jul-1989	30-Sep-1992
023	0011	61101	1	Wind Speed	ARCO COAL-ZINC PROCESS, SMELTER NPL SITE	Deer Lodge	01-Aug-1989	08-Jun-1992
023	0011	61102	1	Wind Direction	ARCO COAL-ZINC PROCESS, SMELTER NPL SITE	Deer Lodge	01-Aug-1989	08-Jun-1992
023	0011	61106	1	Std Dev Hz Wind Direction	ARCO COAL-ZINC PROCESS, SMELTER NPL SITE	Deer Lodge	01-Aug-1989	08-Jun-1992
023	0011	61120	1	Atmospheric Stability	ARCO COAL-ZINC PROCESS, SMELTER NPL SITE	Deer Lodge	01-Aug-1989	08-Jun-1992
023	0011	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	ARCO COAL-ZINC PROCESS, SMELTER NPL SITE	Deer Lodge	08-Aug-1989	08-Jun-1992
023	0011	82103	1	Arsenic PM <sub>10</sub> Stp	ARCO COAL-ZINC PROCESS, SMELTER NPL SITE	Deer Lodge	08-Aug-1989	08-Jun-1992
023	0011	82105	1	Beryllium PM <sub>10</sub> Stp	ARCO COAL-ZINC PROCESS, SMELTER NPL SITE	Deer Lodge	08-Aug-1989	08-Jun-1992
023	0011	82110	1	Cadmium PM <sub>10</sub> Stp	ARCO COAL-ZINC PROCESS, SMELTER NPL SITE	Deer Lodge	08-Aug-1989	08-Jun-1992
023	0011	82114	1	Copper PM <sub>10</sub> Stp	ARCO COAL-ZINC PROCESS, SMELTER NPL SITE	Deer Lodge	08-Aug-1989	08-Jun-1992
023	0011	82128	1	Lead PM <sub>10</sub> Stp	ARCO COAL-ZINC PROCESS, SMELTER NPL SITE	Deer Lodge	08-Aug-1989	08-Jun-1992
023	0011	82167	1	Zinc PM <sub>10</sub> Stp	ARCO COAL-ZINC PROCESS, SMELTER NPL SITE	Deer Lodge	08-Aug-1989	08-Jun-1992
023	0012	11101	1	Suspended Particulate (Tsp)	MILL CREEK RR CROSSING	Deer Lodge	01-Jan-1978	31-Dec-1979
023	0012	12103	1	Arsenic (Tsp) Stp	MILL CREEK RR CROSSING	Deer Lodge	01-Jan-1979	31-Dec-1979
023	0012	12110	1	Cadmium (Tsp) Stp	MILL CREEK RR CROSSING	Deer Lodge	01-Jan-1979	31-Dec-1979
023	0012	12112	1	Chromium (Tsp) Stp	MILL CREEK RR CROSSING	Deer Lodge	01-Jan-1979	31-Dec-1979
023	0012	12114	1	Copper (Tsp) Stp	MILL CREEK RR CROSSING	Deer Lodge	01-Jan-1979	31-Dec-1979
023	0012	12128	1	Lead (Tsp) Stp	MILL CREEK RR CROSSING	Deer Lodge	01-Jan-1979	31-Dec-1979
023	0012	12132	1	Manganese (Tsp) Stp	MILL CREEK RR CROSSING	Deer Lodge	01-Jan-1979	31-Dec-1979
023	0012	12136	1	Nickel (Tsp) Stp	MILL CREEK RR CROSSING	Deer Lodge	01-Jan-1979	31-Dec-1979
023	0012	12164	1	Vanadium (Tsp) Stp	MILL CREEK RR CROSSING	Deer Lodge	01-Jan-1979	31-Dec-1979
023	0012	12306	1	Nitrate (Tsp) Stp	MILL CREEK RR CROSSING	Deer Lodge	01-Jan-1979	31-Dec-1979
023	0012	12403	1	Sulfate (Tsp) Stp	MILL CREEK RR CROSSING	Deer Lodge	01-Jan-1979	31-Dec-1979
023	0012	42401	1	Sulfur Dioxide	MILL CREEK RR CROSSING	Deer Lodge	01-Jan-1975	31-Dec-1979
023	0021	11101	1	Suspended Particulate (Tsp)	WALLEY JOHNSON RESIDENCE (SILICA)	Deer Lodge	01-Jan-1971	31-Dec-1971
023	0021	11103	1	Benzene Sol.Organics(TSP)	WALLEY JOHNSON RESIDENCE (SILICA)	Deer Lodge	01-Jan-1971	31-Dec-1971
023	0021	12103	1	Arsenic (Tsp) Stp	WALLEY JOHNSON RESIDENCE (SILICA)	Deer Lodge	01-Jan-1971	31-Dec-1971

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023	0021	12110	1	Cadmium (Tsp) Stp	WALLEY JOHNSON RESIDENCE (SILICA)	Deer Lodge	01-Jan-1971	31-Dec-1971
023	0021	12128	1	Lead (Tsp) Stp	WALLEY JOHNSON RESIDENCE (SILICA)	Deer Lodge	01-Jan-1971	31-Dec-1971
023	0021	12167	1	Zinc (Tsp) Stp	WALLEY JOHNSON RESIDENCE (SILICA)	Deer Lodge	01-Jan-1971	31-Dec-1971
023	0021	12403	1	Sulfate (Tsp) Stp	WALLEY JOHNSON RESIDENCE (SILICA)	Deer Lodge	01-Jan-1971	31-Dec-1971
023	0022	11101	1	Suspended Particulate (Tsp)	BAILEY RESIDENCE EAST OF ANACONDA	Deer Lodge	01-Jan-1971	31-Dec-1971
023	0022	11103	1	Benzene Sol.Organics(TSP)	BAILEY RESIDENCE EAST OF ANACONDA	Deer Lodge	01-Jan-1971	31-Dec-1971
023	0022	12103	1	Arsenic (Tsp) Stp	BAILEY RESIDENCE EAST OF ANACONDA	Deer Lodge	01-Jan-1971	31-Dec-1971
023	0022	12110	1	Cadmium (Tsp) Stp	BAILEY RESIDENCE EAST OF ANACONDA	Deer Lodge	01-Jan-1971	31-Dec-1971
023	0022	12128	1	Lead (Tsp) Stp	BAILEY RESIDENCE EAST OF ANACONDA	Deer Lodge	01-Jan-1971	31-Dec-1971
023	0022	12167	1	Zinc (Tsp) Stp	BAILEY RESIDENCE EAST OF ANACONDA	Deer Lodge	01-Jan-1971	31-Dec-1971
023	0022	42401	1	Sulfur Dioxide	BAILEY RESIDENCE EAST OF ANACONDA	Deer Lodge	01-Jan-1971	31-Dec-1971
023	0026	42401	1	Sulfur Dioxide	POOR FARM RESIDENCE	Deer Lodge	01-Jan-1971	31-Dec-1973
023	0035	42401	1	Sulfur Dioxide	CORTRITE TRAILER COURT	Deer Lodge	01-Jan-1972	31-Dec-1972
023	0036	42401	1	Sulfur Dioxide	WILLOW GLENN RANCH	Deer Lodge	01-Jan-1973	31-Dec-1973
023	0037	42401	1	Sulfur Dioxide	ANTELOPE	Deer Lodge	01-Jan-1973	31-Dec-1975
023	0038	42401	1	Sulfur Dioxide	PUMP HOUSE M-2	Deer Lodge	01-Jan-1975	31-Dec-1976
023	0039	11101	1	Suspended Particulate (Tsp)	WARM SPRINGS	Deer Lodge	01-Jan-1980	31-Dec-1981
023	0041	12208	1	Fluoride (Vegation)	RHONE-POULENC,#15 PETERSON,1 M N FAIRMNT	Deer Lodge	01-Jan-1983	01-Sep-1996
023	0706	11101	1	Suspended Particulate (Tsp)	ARCO COAL-MILL CREEK, PARK-HIWAY 274	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0706	12101	1	Aluminum (Tsp) Stp	ARCO COAL-MILL CREEK, PARK-HIWAY 274	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0706	12103	1	Arsenic (Tsp) Stp	ARCO COAL-MILL CREEK, PARK-HIWAY 274	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0706	12110	1	Cadmium (Tsp) Stp	ARCO COAL-MILL CREEK, PARK-HIWAY 274	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0706	12112	1	Chromium (Tsp) Stp	ARCO COAL-MILL CREEK, PARK-HIWAY 274	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0706	12114	1	Copper (Tsp) Stp	ARCO COAL-MILL CREEK, PARK-HIWAY 274	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0706	12128	1	Lead (Tsp) Stp	ARCO COAL-MILL CREEK, PARK-HIWAY 274	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0706	12167	1	Zinc (Tsp) Stp	ARCO COAL-MILL CREEK, PARK-HIWAY 274	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0706	61101	1	Wind Speed	ARCO COAL-MILL CREEK, PARK-HIWAY 274	Deer Lodge	01-Aug-1989	08-Jun-1992
023	0706	61102	1	Wind Direction	ARCO COAL-MILL CREEK, PARK-HIWAY 274	Deer Lodge	01-Aug-1989	08-Jun-1992
023	0706	61106	1	Std Dev Hz Wind Direction	ARCO COAL-MILL CREEK, PARK-HIWAY 274	Deer Lodge	01-Aug-1989	08-Jun-1992
023	0706	61120	1	Atmospheric Stability	ARCO COAL-MILL CREEK, PARK-HIWAY 274	Deer Lodge	01-Aug-1989	08-Jun-1992
023	0706	62101	1	Outdoor Temperature	ARCO COAL-MILL CREEK, PARK-HIWAY 274	Deer Lodge	01-Aug-1989	08-Jun-1992
023	0706	62201	1	Relative Humidity	ARCO COAL-MILL CREEK, PARK-HIWAY 274	Deer Lodge	01-Aug-1989	08-Jun-1992
023	0706	63301	1	Solar Radiation	ARCO COAL-MILL CREEK, PARK-HIWAY 274	Deer Lodge	01-Aug-1989	08-Jun-1992

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023	0706	65102	1	Rain/Melt Precipitation	ARCO COAL-MILL CREEK, PARK-HIWAY 274	Deer Lodge	01-Aug-1989	08-Jun-1992
023	0706	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	ARCO COAL-MILL CREEK, PARK-HIWAY 274	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0706	81102	2	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	ARCO COAL-MILL CREEK, PARK-HIWAY 274	Deer Lodge	01-Aug-1989	08-Jun-1992
023	0706	82101	1	Aluminum PM <sub>10</sub> Stp	ARCO COAL-MILL CREEK, PARK-HIWAY 274	Deer Lodge	01-Jan-1985	31-Dec-1985
023	0706	82103	1	Arsenic PM <sub>10</sub> Stp	ARCO COAL-MILL CREEK, PARK-HIWAY 274	Deer Lodge	01-Jan-1985	08-Jun-1992
023	0706	82105	1	Beryllium PM <sub>10</sub> Stp	ARCO COAL-MILL CREEK, PARK-HIWAY 274	Deer Lodge	01-Aug-1989	08-Jun-1992
023	0706	82110	1	Cadmium PM <sub>10</sub> Stp	ARCO COAL-MILL CREEK, PARK-HIWAY 274	Deer Lodge	01-Jan-1985	08-Jun-1992
023	0706	82112	1	Chromium PM <sub>10</sub> Stp	ARCO COAL-MILL CREEK, PARK-HIWAY 274	Deer Lodge	01-Jan-1985	31-Dec-1985
023	0706	82114	1	Copper PM <sub>10</sub> Stp	ARCO COAL-MILL CREEK, PARK-HIWAY 274	Deer Lodge	01-Jan-1985	08-Jun-1992
023	0706	82128	1	Lead PM <sub>10</sub> Stp	ARCO COAL-MILL CREEK, PARK-HIWAY 274	Deer Lodge	01-Jan-1985	08-Jun-1992
023	0706	82167	1	Zinc PM <sub>10</sub> Stp	ARCO COAL-MILL CREEK, PARK-HIWAY 274	Deer Lodge	01-Jan-1985	08-Jun-1992
023	0711	11101	2	Suspended Particulate (Tsp)	JOHNSONS CURVE, RTE 48, WARM SPRINGS	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0711	11101	1	Suspended Particulate (Tsp)	JOHNSONS CURVE, RTE 48, WARM SPRINGS	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0711	12101	2	Aluminum (Tsp) Stp	JOHNSONS CURVE, RTE 48, WARM SPRINGS	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0711	12101	1	Aluminum (Tsp) Stp	JOHNSONS CURVE, RTE 48, WARM SPRINGS	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0711	12103	2	Arsenic (Tsp) Stp	JOHNSONS CURVE, RTE 48, WARM SPRINGS	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0711	12103	1	Arsenic (Tsp) Stp	JOHNSONS CURVE, RTE 48, WARM SPRINGS	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0711	12110	2	Cadmium (Tsp) Stp	JOHNSONS CURVE, RTE 48, WARM SPRINGS	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0711	12110	1	Cadmium (Tsp) Stp	JOHNSONS CURVE, RTE 48, WARM SPRINGS	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0711	12112	2	Chromium (Tsp) Stp	JOHNSONS CURVE, RTE 48, WARM SPRINGS	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0711	12112	1	Chromium (Tsp) Stp	JOHNSONS CURVE, RTE 48, WARM SPRINGS	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0711	12114	2	Copper (Tsp) Stp	JOHNSONS CURVE, RTE 48, WARM SPRINGS	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0711	12114	1	Copper (Tsp) Stp	JOHNSONS CURVE, RTE 48, WARM SPRINGS	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0711	12128	2	Lead (Tsp) Stp	JOHNSONS CURVE, RTE 48, WARM SPRINGS	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0711	12128	1	Lead (Tsp) Stp	JOHNSONS CURVE, RTE 48, WARM SPRINGS	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0711	12167	1	Zinc (Tsp) Stp	JOHNSONS CURVE, RTE 48, WARM SPRINGS	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0711	12167	2	Zinc (Tsp) Stp	JOHNSONS CURVE, RTE 48, WARM SPRINGS	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0711	61101	1	Wind Speed	JOHNSONS CURVE, RTE 48, WARM SPRINGS	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0711	61102	1	Wind Direction	JOHNSONS CURVE, RTE 48, WARM SPRINGS	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0711	81102	2	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	JOHNSONS CURVE, RTE 48, WARM SPRINGS	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0711	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	JOHNSONS CURVE, RTE 48, WARM SPRINGS	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0711	82101	2	Aluminum PM <sub>10</sub> Stp	JOHNSONS CURVE, RTE 48, WARM SPRINGS	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0711	82101	1	Aluminum PM <sub>10</sub> Stp	JOHNSONS CURVE, RTE 48, WARM SPRINGS	Deer Lodge	01-Jan-1984	31-Dec-1985

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023	0711	82103	1	Arsenic PM <sub>10</sub> Stp	JOHNSONS CURVE, RTE 48, WARM SPRINGS	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0711	82103	2	Arsenic PM <sub>10</sub> Stp	JOHNSONS CURVE, RTE 48, WARM SPRINGS	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0711	82110	1	Cadmium PM <sub>10</sub> Stp	JOHNSONS CURVE, RTE 48, WARM SPRINGS	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0711	82110	2	Cadmium PM <sub>10</sub> Stp	JOHNSONS CURVE, RTE 48, WARM SPRINGS	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0711	82112	2	Chromium PM <sub>10</sub> Stp	JOHNSONS CURVE, RTE 48, WARM SPRINGS	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0711	82112	1	Chromium PM <sub>10</sub> Stp	JOHNSONS CURVE, RTE 48, WARM SPRINGS	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0711	82114	2	Copper PM <sub>10</sub> Stp	JOHNSONS CURVE, RTE 48, WARM SPRINGS	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0711	82114	1	Copper PM <sub>10</sub> Stp	JOHNSONS CURVE, RTE 48, WARM SPRINGS	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0711	82128	1	Lead PM <sub>10</sub> Stp	JOHNSONS CURVE, RTE 48, WARM SPRINGS	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0711	82128	2	Lead PM <sub>10</sub> Stp	JOHNSONS CURVE, RTE 48, WARM SPRINGS	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0711	82167	1	Zinc PM <sub>10</sub> Stp	JOHNSONS CURVE, RTE 48, WARM SPRINGS	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0711	82167	2	Zinc PM <sub>10</sub> Stp	JOHNSONS CURVE, RTE 48, WARM SPRINGS	Deer Lodge	01-Jan-1984	31-Dec-1985
023	0712	11101	1	Suspended Particulate (Tsp)	WHEELS-N-DEALS, 1100 W PARK	Deer Lodge	01-Jan-1986	31-Dec-1986
023	0712	12103	1	Arsenic (Tsp) Stp	WHEELS-N-DEALS, 1100 W PARK	Deer Lodge	01-Jan-1986	31-Dec-1986
023	0712	12110	1	Cadmium (Tsp) Stp	WHEELS-N-DEALS, 1100 W PARK	Deer Lodge	01-Jan-1986	31-Dec-1986
023	0712	12114	1	Copper (Tsp) Stp	WHEELS-N-DEALS, 1100 W PARK	Deer Lodge	01-Jan-1986	31-Dec-1986
023	0712	12128	1	Lead (Tsp) Stp	WHEELS-N-DEALS, 1100 W PARK	Deer Lodge	01-Jan-1986	31-Dec-1986
023	0712	12167	1	Zinc (Tsp) Stp	WHEELS-N-DEALS, 1100 W PARK	Deer Lodge	01-Jan-1986	31-Dec-1986
023	0713	11101	1	Suspended Particulate (Tsp)	WOLFE RES.1212 MILL CREEK RD#1 ANACONDA	Deer Lodge	01-Jan-1986	31-Dec-1988
023	0713	12103	1	Arsenic (Tsp) Stp	WOLFE RES.1212 MILL CREEK RD#1 ANACONDA	Deer Lodge	01-Jan-1986	31-Dec-1988
023	0713	12110	1	Cadmium (Tsp) Stp	WOLFE RES.1212 MILL CREEK RD#1 ANACONDA	Deer Lodge	01-Jan-1986	31-Dec-1988
023	0713	12114	1	Copper (Tsp) Stp	WOLFE RES.1212 MILL CREEK RD#1 ANACONDA	Deer Lodge	01-Jan-1986	31-Dec-1988
023	0713	12128	1	Lead (Tsp) Stp	WOLFE RES.1212 MILL CREEK RD#1 ANACONDA	Deer Lodge	01-Jan-1986	31-Dec-1988
023	0713	12167	1	Zinc (Tsp) Stp	WOLFE RES.1212 MILL CREEK RD#1 ANACONDA	Deer Lodge	01-Jan-1986	31-Dec-1988
023	0714	11101	1	Suspended Particulate (Tsp)	ARCO COAL-KORTUM STORAGE, HIWY 1-LNDFL RD	Deer Lodge	01-Jan-1986	31-Dec-1989
023	0714	12103	1	Arsenic (Tsp) Stp	ARCO COAL-KORTUM STORAGE, HIWY 1-LNDFL RD	Deer Lodge	01-Jan-1986	31-Dec-1989
023	0714	12110	1	Cadmium (Tsp) Stp	ARCO COAL-KORTUM STORAGE, HIWY 1-LNDFL RD	Deer Lodge	01-Jan-1986	31-Dec-1989
023	0714	12114	1	Copper (Tsp) Stp	ARCO COAL-KORTUM STORAGE, HIWY 1-LNDFL RD	Deer Lodge	01-Jan-1986	31-Dec-1989
023	0714	12128	1	Lead (Tsp) Stp	ARCO COAL-KORTUM STORAGE, HIWY 1-LNDFL RD	Deer Lodge	01-Jan-1986	31-Dec-1989
023	0714	12167	1	Zinc (Tsp) Stp	ARCO COAL-KORTUM STORAGE, HIWY 1-LNDFL RD	Deer Lodge	01-Jan-1986	31-Dec-1989
023	0714	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	ARCO COAL-KORTUM STORAGE, HIWY 1-LNDFL RD	Deer Lodge	02-Aug-1989	08-Jun-1992
023	0714	81102	2	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	ARCO COAL-KORTUM STORAGE, HIWY 1-LNDFL RD	Deer Lodge	01-Aug-1989	31-Dec-1990
023	0714	82103	1	Arsenic PM <sub>10</sub> Stp	ARCO COAL-KORTUM STORAGE, HIWY 1-LNDFL RD	Deer Lodge	02-Aug-1989	08-Jun-1992

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023	0714	82103	2	Arsenic PM <sub>10</sub> Stp	ARCO COAL-KORTUM STORAGE, HIWY 1-LNDFL RD	Deer Lodge	01-Aug-1989	31-Dec-1990
023	0714	82105	1	Beryllium PM <sub>10</sub> Stp	ARCO COAL-KORTUM STORAGE, HIWY 1-LNDFL RD	Deer Lodge	02-Aug-1989	08-Jun-1992
023	0714	82105	2	Beryllium PM <sub>10</sub> Stp	ARCO COAL-KORTUM STORAGE, HIWY 1-LNDFL RD	Deer Lodge	01-Aug-1989	31-Dec-1990
023	0714	82110	2	Cadmium PM <sub>10</sub> Stp	ARCO COAL-KORTUM STORAGE, HIWY 1-LNDFL RD	Deer Lodge	01-Aug-1989	31-Dec-1990
023	0714	82110	1	Cadmium PM <sub>10</sub> Stp	ARCO COAL-KORTUM STORAGE, HIWY 1-LNDFL RD	Deer Lodge	02-Aug-1989	08-Jun-1992
023	0714	82114	1	Copper PM <sub>10</sub> Stp	ARCO COAL-KORTUM STORAGE, HIWY 1-LNDFL RD	Deer Lodge	02-Aug-1989	08-Jun-1992
023	0714	82114	2	Copper PM <sub>10</sub> Stp	ARCO COAL-KORTUM STORAGE, HIWY 1-LNDFL RD	Deer Lodge	01-Aug-1989	31-Dec-1990
023	0714	82128	2	Lead PM <sub>10</sub> Stp	ARCO COAL-KORTUM STORAGE, HIWY 1-LNDFL RD	Deer Lodge	01-Aug-1989	31-Dec-1990
023	0714	82128	1	Lead PM <sub>10</sub> Stp	ARCO COAL-KORTUM STORAGE, HIWY 1-LNDFL RD	Deer Lodge	02-Aug-1989	08-Jun-1992
023	0714	82167	2	Zinc PM <sub>10</sub> Stp	ARCO COAL-KORTUM STORAGE, HIWY 1-LNDFL RD	Deer Lodge	01-Aug-1989	31-Dec-1990
023	0714	82167	1	Zinc PM <sub>10</sub> Stp	ARCO COAL-KORTUM STORAGE, HIWY 1-LNDFL RD	Deer Lodge	02-Aug-1989	08-Jun-1992
023	0801	42401	1	Sulfur Dioxide	WATER OFFICE	Deer Lodge	01-Jan-1975	31-Dec-1980
023	0802	42401	1	Sulfur Dioxide	COUNTY AIRPORT	Deer Lodge	01-Jan-1975	31-Dec-1980
023	0803	42401	1	Sulfur Dioxide	OPPORTUNITY	Deer Lodge	01-Jan-1975	31-Dec-1980
023	0804	42401	1	Sulfur Dioxide	MILL CREEK	Deer Lodge	01-Jan-1975	31-Dec-1980
023	0806	42401	1	Sulfur Dioxide	C - HILL	Deer Lodge	01-Jan-1975	31-Dec-1979
023	0807	42401	1	Sulfur Dioxide	WEST GATE OF ACC	Deer Lodge	01-Jan-1975	31-Dec-1980
023	0904	42401	3	Sulfur Dioxide	POST OFFICE	Deer Lodge	01-Jan-1974	31-Dec-1978
023	0904	42401	2	Sulfur Dioxide	POST OFFICE	Deer Lodge	01-Jan-1973	31-Dec-1975
023	0904	42401	1	Sulfur Dioxide	POST OFFICE	Deer Lodge	01-Jan-1973	31-Dec-1973
023	0905	11101	1	Suspended Particulate (Tsp)	TAILINGS HILL	Deer Lodge	01-Jan-1974	31-Dec-1975
023	0905	42401	3	Sulfur Dioxide	TAILINGS HILL	Deer Lodge	01-Jan-1974	31-Dec-1975
023	0905	42401	2	Sulfur Dioxide	TAILINGS HILL	Deer Lodge	01-Jan-1973	31-Dec-1975
023	0905	42401	1	Sulfur Dioxide	TAILINGS HILL	Deer Lodge	01-Jan-1973	31-Dec-1973
023	0906	42401	1	Sulfur Dioxide	'C' HILL SOUTH OF ANACONDA	Deer Lodge	01-Jan-1974	31-Dec-1978
023	0906	42401	2	Sulfur Dioxide	'C' HILL SOUTH OF ANACONDA	Deer Lodge	01-Jan-1974	31-Dec-1974
025	0001	11101	1	Suspended Particulate (Tsp)	BOX 103 PLEVNA MT 59433	Fallon	01-Jan-1981	31-Dec-1984
027	0001	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	KENDALL VENTURE MINE-TOWN SITE #1,HILGER	Fergus	01-Sep-1988	31-Dec-1989
027	0002	11101	1	Suspended Particulate (Tsp)	LEWISTOWN DOWNTOWN, 450 N. JANEAUX	Fergus	01-Jan-1980	31-Dec-1983
027	0003	61101	1	Wind Speed	CR KENDALL-POND SITE #2, HILGER880901	Fergus	01-Sep-1988	04-Jan-1990
027	0003	61102	1	Wind Direction	CR KENDALL-POND SITE #2, HILGER880901	Fergus	01-Sep-1988	04-Jan-1990
027	0003	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	CR KENDALL-POND SITE #2, HILGER880901	Fergus	24-Sep-1988	31-Dec-1989
027	0004	61101	1	Wind Speed	CR KENDALL-N TOWNSITE #3, HILGER	Fergus	21-Feb-1990	31-Mar-1992

027	0004	61102	1	Wind Direction	CR KENDALL-N TOWNSITE #3, HILGER	Fergus	21-Feb-1990	31-Mar-1992
027	0004	61106	1	Std Dev Hz Wind Direction	CR KENDALL-N TOWNSITE #3, HILGER	Fergus	21-Feb-1990	31-Mar-1992
027	0004	62101	1	Outdoor Temperature	CR KENDALL-N TOWNSITE #3, HILGER	Fergus	21-Feb-1990	31-Mar-1992
027	0004	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	CR KENDALL-N TOWNSITE #3, HILGER	Fergus	01-Jan-1990	31-Dec-1997
027	0004	82103	1	Arsenic PM <sub>10</sub> Stp	CR KENDALL-N TOWNSITE #3, HILGER	Fergus	01-Jan-1990	31-Dec-1991
027	0004	82110	1	Cadmium PM <sub>10</sub> Stp	CR KENDALL-N TOWNSITE #3, HILGER	Fergus	01-Jan-1990	31-Dec-1991
027	0004	82112	1	Chromium PM <sub>10</sub> Stp	CR KENDALL-N TOWNSITE #3, HILGER	Fergus	01-Jan-1990	31-Dec-1991
027	0004	82128	1	Lead PM <sub>10</sub> Stp	CR KENDALL-N TOWNSITE #3, HILGER	Fergus	01-Jan-1990	31-Dec-1991
027	0005	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	CR KENDALL-BSA SITE #4, HILGER	Fergus	01-Jan-1990	31-Dec-1997
027	0005	82103	1	Arsenic PM <sub>10</sub> Stp	CR KENDALL-BSA SITE #4, HILGER	Fergus	01-Jan-1990	31-Dec-1991
027	0005	82110	1	Cadmium PM <sub>10</sub> Stp	CR KENDALL-BSA SITE #4, HILGER	Fergus	01-Jan-1990	31-Dec-1991
027	0005	82112	1	Chromium PM <sub>10</sub> Stp	CR KENDALL-BSA SITE #4, HILGER	Fergus	01-Jan-1990	31-Dec-1991
027	0005	82128	1	Lead PM <sub>10</sub> Stp	CR KENDALL-BSA SITE #4, HILGER	Fergus	01-Jan-1990	31-Dec-1991
027	9000	11208	1	Deciview	UL Bend	Fergus	01-Jan-2000	
027	9000	42401	1	Sulfur Dioxide	UL Bend	Fergus	26-Jan-2000	
027	9000	62201	1	Relative Humidity	UL Bend	Fergus	26-Jan-2000	
027	9000	62202	1	Relative Humidity Factor	UL Bend	Fergus	26-Jan-2000	
027	9000	63102	1	Light Absorption Coeffiecient	UL Bend	Fergus	01-Jan-2000	
027	9000	81103	1	Pm 10 <sub>2.5</sub> Stp	UL Bend	Fergus	01-Jan-2005	
027	9000	84203	1	Chloride PM <sub>2.5</sub> Stp	UL Bend	Fergus	26-Jan-2000	
027	9000	84306	1	Nitrate PM <sub>2.5</sub> Stp	UL Bend	Fergus	01-Jan-2006	
027	9000	85101	1	PM <sub>10</sub> - Lc	UL Bend	Fergus	26-Jan-2000	
027	9000	86502	1	Acceptable PM <sub>102.5</sub> LC	UL Bend	Fergus	01-Jan-2000	
027	9000	88103	1	Arsenic PM <sub>2.5</sub> Lc	UL Bend	Fergus	26-Jan-2000	
027	9000	88104	1	Aluminum PM <sub>2.5</sub> Lc	UL Bend	Fergus	26-Jan-2000	
027	9000	88109	1	Bromine PM <sub>2.5</sub> Lc	UL Bend	Fergus	26-Jan-2000	
027	9000	88111	1	Calcium PM <sub>2.5</sub> Lc	UL Bend	Fergus	26-Jan-2000	
027	9000	88112	1	Chromium PM <sub>2.5</sub> Lc	UL Bend	Fergus	26-Jan-2000	
027	9000	88114	1	Copper PM <sub>2.5</sub> Lc	UL Bend	Fergus	26-Jan-2000	
027	9000	88115	1	Chlorine PM <sub>2.5</sub> Lc	UL Bend	Fergus	26-Jan-2000	
027	9000	88126	1	Iron PM <sub>2.5</sub> Lc	UL Bend	Fergus	26-Jan-2000	
027	9000	88128	1	Lead PM <sub>2.5</sub> Lc	UL Bend	Fergus	26-Jan-2000	
027	9000	88132	1	Manganese PM <sub>2.5</sub> Lc	UL Bend	Fergus	26-Jan-2000	

027	9000	88134	1	Molybdenum PM <sub>2.5</sub> Lc	UL Bend	Fergus	26-Jan-2000	
027	9000	88136	1	Nickel PM <sub>2.5</sub> Lc	UL Bend	Fergus	26-Jan-2000	
027	9000	88140	1	Magnesium PM <sub>2.5</sub> Lc	UL Bend	Fergus	26-Jan-2000	
027	9000	88152	1	Phosphorus PM <sub>2.5</sub> Lc	UL Bend	Fergus	26-Jan-2000	
027	9000	88154	1	Selenium PM <sub>2.5</sub> Lc	UL Bend	Fergus	26-Jan-2000	
027	9000	88161	1	Titanium PM <sub>2.5</sub> Lc	UL Bend	Fergus	26-Jan-2000	
027	9000	88164	1	Vanadium PM <sub>2.5</sub> Lc	UL Bend	Fergus	26-Jan-2000	
027	9000	88165	1	Silicon PM <sub>2.5</sub> Lc	UL Bend	Fergus	26-Jan-2000	
027	9000	88167	1	Zinc PM <sub>2.5</sub> Lc	UL Bend	Fergus	26-Jan-2000	
027	9000	88168	1	Strontium PM <sub>2.5</sub> Lc	UL Bend	Fergus	26-Jan-2000	
027	9000	88169	1	Sulfur PM <sub>2.5</sub> Lc	UL Bend	Fergus	26-Jan-2000	
027	9000	88176	1	Rubidium PM <sub>2.5</sub> Lc	UL Bend	Fergus	26-Jan-2000	
027	9000	88180	1	Potassium PM <sub>2.5</sub> Lc	UL Bend	Fergus	26-Jan-2000	
027	9000	88184	1	Sodium PM <sub>2.5</sub> Lc	UL Bend	Fergus	26-Jan-2000	
027	9000	88185	1	Zirconium PM <sub>2.5</sub> Lc	UL Bend	Fergus	26-Jan-2000	
027	9000	88203	1	Chloride PM <sub>2.5</sub> Lc	UL Bend	Fergus	26-Jan-2000	
027	9000	88301	1	Ammonium Ion PM <sub>2.5</sub> Lc	UL Bend	Fergus	26-Jan-2000	
027	9000	88306	1	Total Nitrate PM <sub>2.5</sub> Lc	UL Bend	Fergus	26-Jan-2000	
027	9000	88307	1	Ec Csn PM <sub>2.5</sub> LC	UL Bend	Fergus	01-Jan-2000	
027	9000	88320	1	Oc PM <sub>2.5</sub> Lc Tor	UL Bend	Fergus	01-Jan-2000	
027	9000	88321	1	Ec PM <sub>2.5</sub> Lc Tor	UL Bend	Fergus	01-Jan-2005	
027	9000	88328	1	Op PM <sub>2.5</sub> Lc Tor	UL Bend	Fergus	01-Jan-2005	
027	9000	88329	1	Ec1 PM <sub>2.5</sub> Lc	UL Bend	Fergus	26-Jan-2000	
027	9000	88330	1	Ec2 PM <sub>2.5</sub> Lc	UL Bend	Fergus	26-Jan-2000	
027	9000	88331	1	Ec3 PM <sub>2.5</sub> Lc	UL Bend	Fergus	26-Jan-2000	
027	9000	88332	1	Oc1 Csn Unadj PM <sub>2.5</sub> LC	UL Bend	Fergus	26-Jan-2000	
027	9000	88333	1	Oc2 Csn Unadj PM <sub>2.5</sub> LC	UL Bend	Fergus	26-Jan-2000	
027	9000	88334	1	Oc3 Csn Unadj PM <sub>2.5</sub> LC	UL Bend	Fergus	26-Jan-2000	
027	9000	88335	1	Oc4 Csn Unadj PM <sub>2.5</sub> LC	UL Bend	Fergus	26-Jan-2000	
027	9000	88336	1	Op Csn PM <sub>2.5</sub> LC	UL Bend	Fergus	26-Jan-2000	
027	9000	88337	1	Hydrogen PM <sub>2.5</sub> Lc	UL Bend	Fergus	26-Jan-2000	
027	9000	88338	1	Nitrite PM <sub>2.5</sub> Lc	UL Bend	Fergus	26-Jan-2000	
027	9000	88339	1	NH4NO3 PM <sub>2.5</sub> Lc	UL Bend	Fergus	01-Jan-2000	
027	9000	88340	1	NH4NO3 Extinct.PM <sub>2.5</sub> Lc	UL Bend	Fergus	01-Jan-2000	
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027	9000	88341	1	Aerosol Extinct.PM <sub>2.5</sub> Lc	UL Bend	Fergus	01-Jan-2000	
027	9000	88342	1	Coar. Mass Extinct.PM25 Lc	UL Bend	Fergus	01-Jan-2000	
027	9000	88343	1	EC Extinct.PM <sub>2.5</sub> Lc	UL Bend	Fergus	01-Jan-2000	
027	9000	88344	1	NH4NO3 PM <sub>2.5</sub> Lc	UL Bend	Fergus	01-Jan-2000	
027	9000	88345	1	NH4NO3 Extinct. PM <sub>2.5</sub> Lc	UL Bend	Fergus	01-Jan-2000	
027	9000	88346	1	OC Extinct.PM <sub>2.5</sub> Lc	UL Bend	Fergus	01-Jan-2000	
027	9000	88348	1	Soil PM <sub>2.5</sub> Lc	UL Bend	Fergus	01-Jan-2000	
027	9000	88349	1	Soil Extinct.PM <sub>2.5</sub> Lc	UL Bend	Fergus	01-Jan-2000	
027	9000	88350	1	OC Mass PM <sub>2.5</sub> Lc	UL Bend	Fergus	01-Jan-2000	
027	9000	88395	1	Sea Salt (PM <sub>2.5</sub> )	UL Bend	Fergus	01-Jan-2007	
027	9000	88401	1	Reconstruct.Mass PM <sub>2.5</sub> Lc	UL Bend	Fergus	01-Jan-2000	
027	9000	88403	1	Sulfate PM <sub>2.5</sub> Lc	UL Bend	Fergus	26-Jan-2000	
027	9000	88502	1	Accpt.PM25 AQI Spec.Mass	UL Bend	Fergus	26-Jan-2000	
029	0002	11101	1	Suspended Particulate (Tsp)	HIGH SCHOOL	Flathead	01-Jan-1972	31-Dec-1977
029	0002	11103	1	Benzene Sol.Organics(TSP)	HIGH SCHOOL	Flathead	01-Jan-1972	31-Dec-1977
029	0002	12110	1	Cadmium (Tsp) Stp	HIGH SCHOOL	Flathead	01-Jan-1972	31-Dec-1977
029	0002	12128	1	Lead (Tsp) Stp	HIGH SCHOOL	Flathead	01-Jan-1972	31-Dec-1977
029	0002	12167	1	Zinc (Tsp) Stp	HIGH SCHOOL	Flathead	01-Jan-1972	31-Dec-1977
029	0003	11101	1	Suspended Particulate (Tsp)	JR HIGH SCHOOL, 500 4TH AVE NORTH	Flathead	01-Jan-1971	31-Dec-1987
029	0003	11103	1	Benzene Sol.Organics(TSP)	JR HIGH SCHOOL, 500 4TH AVE NORTH	Flathead	01-Jan-1971	31-Dec-1987
029	0003	81102	2	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	JR HIGH SCHOOL, 500 4TH AVE NORTH	Flathead	21-Apr-1987	28-Dec-2002
029	0003	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	JR HIGH SCHOOL, 500 4TH AVE NORTH	Flathead	13-May-1985	31-Dec-1987
029	0003	85101	1	PM10 - Lc	JR HIGH SCHOOL, 500 4TH AVE NORTH	Flathead	01-Jan-1998	28-Dec-2002
029	0004	12209	2	Fluoride (Paper Samplers)	R.E. OWENS RES HW2 S. OF COLUMBIA FALLS	Flathead	01-Jan-1982	31-Dec-1983
029	0004	12209	1	Fluoride (Paper Samplers)	R.E. OWENS RES HW2 S. OF COLUMBIA FALLS	Flathead	01-Jan-1982	31-Dec-1983
029	0005	11101	1	Suspended Particulate (Tsp)	ANDERS RESIDENCE, 726 FIRST AVENUE EAST	Flathead	01-Jan-1977	31-Dec-1987
029	0005	12101	1	Aluminum (Tsp) Stp	ANDERS RESIDENCE, 726 FIRST AVENUE EAST	Flathead	01-Jan-1978	31-Dec-1978
029	0005	12103	1	Arsenic (Tsp) Stp	ANDERS RESIDENCE, 726 FIRST AVENUE EAST	Flathead	01-Jan-1978	31-Dec-1978
029	0005	12110	1	Cadmium (Tsp) Stp	ANDERS RESIDENCE, 726 FIRST AVENUE EAST	Flathead	01-Jan-1978	31-Dec-1978
029	0005	12114	1	Copper (Tsp) Stp	ANDERS RESIDENCE, 726 FIRST AVENUE EAST	Flathead	01-Jan-1978	31-Dec-1978
029	0005	12126	1	Iron (Tsp) Stp	ANDERS RESIDENCE, 726 FIRST AVENUE EAST	Flathead	01-Jan-1978	31-Dec-1978
029	0005	12128	1	Lead (Tsp) Stp	ANDERS RESIDENCE, 726 FIRST AVENUE EAST	Flathead	01-Jan-1978	31-Dec-1978

029 0005 12132 1 Manganese (Tsp) Stp ANDERS RESIDENCE, 726 FIRST AVENUE EAST Flathead   029 0005 12136 1 Nickel (Tsp) Stp ANDERS RESIDENCE, 726 FIRST AVENUE EAST Flathead   029 0005 12167 1 Zinc (Tsp) Stp ANDERS RESIDENCE, 726 FIRST AVENUE EAST Flathead   029 0005 12206 1 Nitrate (Tsp) Stp ANDERS RESIDENCE, 726 FIRST AVENUE EAST Flathead   029 0005 12403 1 Sulfate (Tsp) Stp ANDERS RESIDENCE, 726 FIRST AVENUE EAST Flathead   029 0006 21101 1 Total Dustfall (Sp) LABERE - 981 2ND ST, COLUMBIA FALLS Flathead   029 0006 25101 1 Dustfall Combustible (Sp) LABERE - 981 2ND ST, COLUMBIA FALLS Flathead   029 0007 68105 1 Ambient Temperature CORNER OF C ST & 4TH AVE EN Flathead   029 0007 81102 1 PM10 Total 0100 m Stp CORNER OF C ST & 4TH AVE EN Flathead   029 0007	01-Jan-1978 01-Jan-1978	31-Dec-1978
029 0005 12136 1 Nickel (Tsp) Stp ANDERS RESIDENCE, 726 FIRST AVENUE EAST Flathead   029 0005 12167 1 Zinc (Tsp) Stp ANDERS RESIDENCE, 726 FIRST AVENUE EAST Flathead   029 0005 12306 1 Nitrate (Tsp) Stp ANDERS RESIDENCE, 726 FIRST AVENUE EAST Flathead   029 0005 12403 1 Sulfate (Tsp) Stp ANDERS RESIDENCE, 726 FIRST AVENUE EAST Flathead   029 0006 21101 1 Total Dustfall (Sp) LABERE - 981 2ND ST, COLUMBIA FALLS Flathead   029 0006 25101 1 Dustfall Combustible (Sp) LABERE - 981 2ND ST, COLUMBIA FALLS Flathead   029 0007 68105 1 Ambient Temperature CORNER OF C ST & 4TH AVE EN Flathead   029 0007 68108 1 Sample Baro Pressure CORNER OF C ST & 4TH AVE EN Flathead   029 0007 81102 1 PM <sub>10</sub> Total 0 <sub>10</sub> um Stp CORNER OF C ST & 4TH AVE EN Flathead   029 0007 85101 <td>01-Jan-1978</td> <td></td>	01-Jan-1978	
029 0005 12167 1 Zinc (Tsp) Stp ANDERS RESIDENCE, 726 FIRST AVENUE EAST Flathead   029 0005 12306 1 Nitrate (Tsp) Stp ANDERS RESIDENCE, 726 FIRST AVENUE EAST Flathead   029 0005 12403 1 Sulfate (Tsp) Stp ANDERS RESIDENCE, 726 FIRST AVENUE EAST Flathead   029 0006 21101 1 Total Dustfall (Sp) LABERE - 981 2ND ST, COLUMBIA FALLS Flathead   029 0006 25101 1 Dustfall Combustible (Sp) LABERE - 981 2ND ST, COLUMBIA FALLS Flathead   029 0006 25101 1 Dustfall Combustible (Sp) LABERE - 981 2ND ST, COLUMBIA FALLS Flathead   029 0007 68105 1 Ambient Temperature CORNER OF C ST & 4TH AVE EN Flathead   029 0007 81102 1 PM10 Total 010 m Stp CORNER OF C ST & 4TH AVE EN Flathead   029 0007 85101 2 PM10 Total 010 m Stp CORNER OF C ST & 4TH AVE EN Flathead   029 0007 85101 </td <td></td> <td>31-Dec-1978</td>		31-Dec-1978
029 0005 12306 1 Nitrate (Tsp) Stp ANDERS RESIDENCE, 726 FIRST AVENUE EAST Flathead   029 0005 12403 1 Sulfate (Tsp) Stp ANDERS RESIDENCE, 726 FIRST AVENUE EAST Flathead   029 0006 21101 1 Total Dustfall (Sp) LABERE - 981 2ND ST, COLUMBIA FALLS Flathead   029 0006 25101 1 Dustfall Combustible (Sp) LABERE - 981 2ND ST, COLUMBIA FALLS Flathead   029 0007 68105 1 Ambient Temperature CORNER OF C ST & 4TH AVE EN Flathead   029 0007 68108 1 Sample Baro Pressure CORNER OF C ST & 4TH AVE EN Flathead   029 0007 81102 1 PM10 Total 0100m Stp CORNER OF C ST & 4TH AVE EN Flathead   029 0007 81102 2 PM10 Total 0100m Stp CORNER OF C ST & 4TH AVE EN Flathead   029 0007 85101 2 PM10 - Lc CORNER OF C ST & 4TH AVE EN Flathead   029 0007 85101 1	01-Jan-1978	31-Dec-1978
029 0005 12403 1 Sulfate (Tsp) Stp ANDERS RESIDENCE, 726 FIRST AVENUE EAST Flathead   029 0006 21101 1 Total Dustfall (Sp) LABERE - 981 2ND ST, COLUMBIA FALLS Flathead   029 0006 25101 1 Dustfall Combustible (Sp) LABERE - 981 2ND ST, COLUMBIA FALLS Flathead   029 0007 68105 1 Ambient Temperature CORNER OF C ST & 4TH AVE EN Flathead   029 0007 68108 1 Sample Baro Pressure CORNER OF C ST & 4TH AVE EN Flathead   029 0007 81102 1 PM <sub>10</sub> Total 0 <sub>10</sub> um Stp CORNER OF C ST & 4TH AVE EN Flathead   029 0007 81102 2 PM <sub>10</sub> Total 0 <sub>10</sub> um Stp CORNER OF C ST & 4TH AVE EN Flathead   029 0007 85101 2 PM <sub>10</sub> - Lc CORNER OF C ST & 4TH AVE EN Flathead   029 0007 85101 1 PM <sub>10</sub> - Lc CORNER OF C ST & 4TH AVE EN Flathead   029 0007 88101 1 PM <sub></sub>	01-Jan-1978	31-Dec-1979
029 0006 21101 1 Total Dustfall (Sp) LABERE - 981 2ND ST, COLUMBIA FALLS Flathead   029 0006 25101 1 Dustfall Combustible (Sp) LABERE - 981 2ND ST, COLUMBIA FALLS Flathead   029 0007 68105 1 Ambient Temperature CORNER OF C ST & 4TH AVE EN Flathead   029 0007 68108 1 Sample Baro Pressure CORNER OF C ST & 4TH AVE EN Flathead   029 0007 81102 1 PM10 Total 0100 M Stp CORNER OF C ST & 4TH AVE EN Flathead   029 0007 81102 2 PM10 Total 0100 M Stp CORNER OF C ST & 4TH AVE EN Flathead   029 0007 81102 2 PM10 Total 0100 M Stp CORNER OF C ST & 4TH AVE EN Flathead   029 0007 85101 2 PM10 - Lc CORNER OF C ST & 4TH AVE EN Flathead   029 0007 85101 1 PM2.5 - Local Conditions CORNER OF C ST & 4TH AVE EN Flathead   029 0007 88101 1 PM2.5	01-Jan-1978	31-Dec-1979
029 0006 25101 1 Dustfall Combustible (Sp) LABERE - 981 2ND ST, COLUMBIA FALLS Flathead   029 0007 68105 1 Ambient Temperature CORNER OF C ST & 4TH AVE EN Flathead   029 0007 68108 1 Sample Baro Pressure CORNER OF C ST & 4TH AVE EN Flathead   029 0007 81102 1 PM10 Total 010 m Stp CORNER OF C ST & 4TH AVE EN Flathead   029 0007 81102 2 PM10 Total 010 m Stp CORNER OF C ST & 4TH AVE EN Flathead   029 0007 85101 2 PM10 Total 010 m Stp CORNER OF C ST & 4TH AVE EN Flathead   029 0007 85101 2 PM10 - LC CORNER OF C ST & 4TH AVE EN Flathead   029 0007 85101 1 PM10 - LC CORNER OF C ST & 4TH AVE EN Flathead   029 0007 88101 1 PM25 - Local Conditions CORNER OF C ST & 4TH AVE EN Flathead   029 0007 88101 1 PM25 - Local Conditions	01-Jan-1985	31-Dec-1988
029 0007 68105 1 Ambient Temperature CORNER OF C ST & 4TH AVE EN Flathead   029 0007 68108 1 Sample Baro Pressure CORNER OF C ST & 4TH AVE EN Flathead   029 0007 81102 1 PM10 Total 010 m Stp CORNER OF C ST & 4TH AVE EN Flathead   029 0007 81102 2 PM10 Total 010 m Stp CORNER OF C ST & 4TH AVE EN Flathead   029 0007 85101 2 PM10 Total 010 m Stp CORNER OF C ST & 4TH AVE EN Flathead   029 0007 85101 2 PM10 - Lc CORNER OF C ST & 4TH AVE EN Flathead   029 0007 85101 1 PM10 - Lc CORNER OF C ST & 4TH AVE EN Flathead   029 0007 85101 1 PM2.5 - Local Conditions CORNER OF C ST & 4TH AVE EN Flathead   029 0007 88101 1 PM2.5 - Local Conditions CORNER OF C ST & 4TH AVE EN Flathead   029 0008 11101 1 Suspended Particulate (Tsp)	01-Jan-1986	31-Dec-1988
029 0007 68108 1 Sample Baro Pressure CORNER OF C ST & 4TH AVE EN Flathead   029 0007 81102 1 PM10 Total 0100m Stp CORNER OF C ST & 4TH AVE EN Flathead   029 0007 81102 2 PM10 Total 0100m Stp CORNER OF C ST & 4TH AVE EN Flathead   029 0007 85101 2 PM10 Total 0100m Stp CORNER OF C ST & 4TH AVE EN Flathead   029 0007 85101 2 PM10 - Lc CORNER OF C ST & 4TH AVE EN Flathead   029 0007 85101 1 PM10 - Lc CORNER OF C ST & 4TH AVE EN Flathead   029 0007 85101 1 PM10 - Lc CORNER OF C ST & 4TH AVE EN Flathead   029 0007 88101 1 PM25 - Local Conditions CORNER OF C ST & 4TH AVE EN Flathead   029 0008 11101 1 Suspended Particulate (Tsp) LASALLE & EVERGREEN Flathead   029 0008 11103 1 Benzene Sol.Organics(TSP) LASALLE &	03-Apr-2008	27-Aug-2011
029 0007 81102 1 PM <sub>10</sub> Total 0 <sub>10</sub> um Stp CORNER OF C ST & 4TH AVE EN Flathead   029 0007 81102 2 PM <sub>10</sub> Total 0 <sub>10</sub> um Stp CORNER OF C ST & 4TH AVE EN Flathead   029 0007 85101 2 PM <sub>10</sub> - Lc CORNER OF C ST & 4TH AVE EN Flathead   029 0007 85101 1 PM <sub>10</sub> - Lc CORNER OF C ST & 4TH AVE EN Flathead   029 0007 85101 1 PM <sub>10</sub> - Lc CORNER OF C ST & 4TH AVE EN Flathead   029 0007 88101 1 PM <sub>25</sub> - Local Conditions CORNER OF C ST & 4TH AVE EN Flathead   029 0008 11101 1 Suspended Particulate (Tsp) LASALLE & EVERGREEN Flathead   029 0008 11103 1 Benzene Sol.Organics(TSP) LASALLE & EVERGREEN Flathead	03-Apr-2008	27-Aug-2011
029 0007 81102 2 PM10 Total 010 um Stp CORNER OF C ST & 4TH AVE EN Flathead   029 0007 85101 2 PM10 - Lc CORNER OF C ST & 4TH AVE EN Flathead   029 0007 85101 1 PM10 - Lc CORNER OF C ST & 4TH AVE EN Flathead   029 0007 85101 1 PM10 - Lc CORNER OF C ST & 4TH AVE EN Flathead   029 0007 88101 1 PM2.5 - Local Conditions CORNER OF C ST & 4TH AVE EN Flathead   029 0008 11101 1 Suspended Particulate (Tsp) LASALLE & EVERGREEN Flathead   029 0008 11103 1 Benzene Sol.Organics(TSP) LASALLE & EVERGREEN Flathead	26-Aug-2001	31-Dec-2008
029 0007 85101 2 PM <sub>10</sub> - Lc CORNER OF C ST & 4TH AVE EN Flathead   029 0007 85101 1 PM <sub>10</sub> - Lc CORNER OF C ST & 4TH AVE EN Flathead   029 0007 88101 1 PM <sub>2.5</sub> - Local Conditions CORNER OF C ST & 4TH AVE EN Flathead   029 0008 11101 1 Suspended Particulate (Tsp) LASALLE & EVERGREEN Flathead   029 0008 11103 1 Benzene Sol.Organics(TSP) LASALLE & EVERGREEN Flathead	09-Jul-2005	31-Dec-2008
029 0007 85101 1 PM <sub>10</sub> - Lc CORNER OF C ST & 4TH AVE EN Flathead   029 0007 88101 1 PM <sub>2.5</sub> - Local Conditions CORNER OF C ST & 4TH AVE EN Flathead   029 0008 11101 1 Suspended Particulate (Tsp) LASALLE & EVERGREEN Flathead   029 0008 11103 1 Benzene Sol.Organics(TSP) LASALLE & EVERGREEN Flathead	09-Jul-2005	31-Dec-2008
0290007881011PM2.5 - Local ConditionsCORNER OF C ST & 4TH AVE ENFlathead0290008111011Suspended Particulate (Tsp)LASALLE & EVERGREENFlathead0290008111031Benzene Sol.Organics(TSP)LASALLE & EVERGREENFlathead	26-Aug-2001	31-Dec-2008
029 0008 11101 1 Suspended Particulate (Tsp) LASALLE & EVERGREEN Flathead   029 0008 11103 1 Benzene Sol.Organics(TSP) LASALLE & EVERGREEN Flathead	03-Apr-2008	27-Aug-2011
029 0008 11103 1 Benzene Sol.Organics(TSP) LASALLE & EVERGREEN Flathead	01-Jan-1972	31-Dec-1972
	01-Jan-1972	31-Dec-1972
029 0009 68101 1 Sample Flow Rate- Cv END OF 10TH ST Flathead	01-Oct-2001	01-Jan-2007
029 0009 68102 1 Sample Volume END OF 10TH ST Flathead	01-Oct-2001	01-Jan-2007
029 0009 68103 1 Ambient Min Temperature END OF 10TH ST Flathead	01-Oct-2001	01-Jan-2007
029 0009 68104 1 Ambient Max Temperature END OF 10TH ST Flathead	01-Oct-2001	01-Jan-2007
029 0009 68105 1 Ambient Temperature END OF 10TH ST Flathead	01-Oct-2001	
029 0009 68106 1 Sample Min Baro Pressure END OF 10TH ST Flathead	01-Oct-2001	01-Jan-2007
029 0009 68107 1 Sample Max Baro Pressure END OF 10TH ST Flathead	01-Oct-2001	01-Jan-2007
029 0009 68108 1 Sample Baro Pressure END OF 10TH ST Flathead	01-Oct-2001	
029 0009 68109 1 Elapsed Sample Time END OF 10TH ST Flathead	01-Oct-2001	01-Jan-2007
029 0009 81102 1 PM <sub>10</sub> Total 0 <sub>10</sub> um Stp END OF 10TH ST Flathead	13-Sep-2001	30-Jun-2008
029 0009 81102 2 PM <sub>10</sub> Total 0 <sub>10</sub> um Stp END OF 10TH ST Flathead	05-Jul-2008	
029 0009 85101 2 PM <sub>10</sub> - Lc END OF 10TH ST Flathead	05-Jul-2008	31-Dec-2008
029 0009 85101 1 PM <sub>10</sub> - Lc END OF 10TH ST Flathead	13-Sep-2001	30-Jun-2008
029 0009 88101 1 PM <sub>2.5</sub> - Local Conditions END OF 10TH ST Flathead	01-Oct-2001	
029 0009 88502 3 Accpt.PM25 AQI Spec.Mass END OF 10TH ST Flathead	01-Jul-2008	
029 0010 42101 1 Carbon Monoxide MOOSE'S SALOON - IDAHO AND MAIN KALISPELL Flathead	20-Oct-2003	
029 0011 12209 1 Fluoride (Paper Samplers) BEETON HILLS, MT Flathead		

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029	0011	42410	1 Sulfation Rate	BEETON HILLS, MT	Flathead	01-Jan-1982	31-Dec-1983
029	0012	12209	2 Fluoride (Paper Samplers)	(DEHLBOMS FIELD), COLUMBIA FALLS MT	Flathead	01-Jan-1982	31-Dec-1983
029	0012	12209	1 Fluoride (Paper Samplers)	(DEHLBOMS FIELD), COLUMBIA FALLS MT	Flathead	01-Jan-1982	31-Dec-1983
029	0013	12209	2 Fluoride (Paper Samplers)	(ANACONDA SOUTH) COLUMBIA FALLS MT	Flathead	01-Jan-1982	31-Dec-1983
029	0013	12209	1 Fluoride (Paper Samplers)	(ANACONDA SOUTH) COLUMBIA FALLS MT	Flathead	01-Jan-1982	31-Dec-1983
029	0014	12209	1 Fluoride (Paper Samplers)	(TEAKETTLE MTN #1) COLUMBIA FALLS MT	Flathead	01-Jan-1982	31-Dec-1983
029	0014	12209	2 Fluoride (Paper Samplers)	(TEAKETTLE MTN #1) COLUMBIA FALLS MT	Flathead	01-Jan-1982	31-Dec-1983
029	0015	12209	1 Fluoride (Paper Samplers)	THE LOOP, 23 MILES NE OF WEST GLACIER MT	Flathead	01-Jan-1982	31-Dec-1983
029	0015	42410	1 Sulfation Rate	THE LOOP, 23 MILES NE OF WEST GLACIER MT	Flathead	01-Jan-1982	31-Dec-1983
029	0016	42410	1 Sulfation Rate	LOGAN PASS VISITOR CENTER	Flathead	01-Jan-1982	31-Dec-1982
029	0018	11101	1 Suspended Particulate (Tsp)	PETERSON SCHOOL, 3RD ST & MERIDIAN RD	Flathead	01-Jan-1986	31-Dec-1987
029	0021	12209	1 Fluoride (Paper Samplers)	LAKE MCDONALD RANGER STATION	Flathead	01-Jan-1982	31-Dec-1983
029	0021	42410	1 Sulfation Rate	LAKE MCDONALD RANGER STATION	Flathead	01-Jan-1982	31-Dec-1983
029	0022	12209	2 Fluoride (Paper Samplers)	(TEAKETTLE MTN #7) COLUMBIA FALLS MT	Flathead	01-Jan-1982	31-Dec-1983
029	0022	12209	1 Fluoride (Paper Samplers)	(TEAKETTLE MTN #7) COLUMBIA FALLS MT	Flathead	01-Jan-1982	31-Dec-1983
029	0028	12209	2 Fluoride (Paper Samplers)	(ALUMINUM CITY) COLUMBIA FALLS MT	Flathead	01-Jan-1982	31-Dec-1983
029	0028	12209	1 Fluoride (Paper Samplers)	(ALUMINUM CITY) COLUMBIA FALLS MT	Flathead	01-Jan-1982	31-Dec-1983
029	0029	11101	1 Suspended Particulate (Tsp)	NAAC TRAILER, NORTH OF AAC	Flathead	01-Jan-1974	31-Dec-1983
029	0029	12101	1 Aluminum (Tsp) Stp	NAAC TRAILER, NORTH OF AAC	Flathead	01-Jan-1978	31-Dec-1978
029	0029	12103	1 Arsenic (Tsp) Stp	NAAC TRAILER, NORTH OF AAC	Flathead	01-Jan-1978	31-Dec-1978
029	0029	12110	1 Cadmium (Tsp) Stp	NAAC TRAILER, NORTH OF AAC	Flathead	01-Jan-1978	31-Dec-1978
029	0029	12112	1 Chromium (Tsp) Stp	NAAC TRAILER, NORTH OF AAC	Flathead	01-Jan-1978	31-Dec-1978
029	0029	12114	1 Copper (Tsp) Stp	NAAC TRAILER, NORTH OF AAC	Flathead	01-Jan-1978	31-Dec-1978
029	0029	12126	1 Iron (Tsp) Stp	NAAC TRAILER, NORTH OF AAC	Flathead	01-Jan-1978	31-Dec-1978
029	0029	12128	1 Lead (Tsp) Stp	NAAC TRAILER, NORTH OF AAC	Flathead	01-Jan-1978	31-Dec-1978
029	0029	12132	1 Manganese (Tsp) Stp	NAAC TRAILER, NORTH OF AAC	Flathead	01-Jan-1978	31-Dec-1978
029	0029	12136	1 Nickel (Tsp) Stp	NAAC TRAILER, NORTH OF AAC	Flathead	01-Jan-1978	31-Dec-1978
029	0029	12164	1 Vanadium (Tsp) Stp	NAAC TRAILER, NORTH OF AAC	Flathead	01-Jan-1978	31-Dec-1978
029	0029	12167	1 Zinc (Tsp) Stp	NAAC TRAILER, NORTH OF AAC	Flathead	01-Jan-1978	31-Dec-1978
029	0029	12209	1 Fluoride (Paper Samplers)	NAAC TRAILER, NORTH OF AAC	Flathead	01-Jan-1978	31-Dec-1983
029	0029	12209	2 Fluoride (Paper Samplers)	NAAC TRAILER, NORTH OF AAC	Flathead	01-Jan-1978	31-Dec-1983
029	0029	12306	1 Nitrate (Tsp) Stp	NAAC TRAILER, NORTH OF AAC	Flathead	01-Jan-1978	31-Dec-1979
029	0029	12403	1 Sulfate (Tsp) Stp	NAAC TRAILER, NORTH OF AAC	Flathead	01-Jan-1978	31-Dec-1979

029	0034	11101	1	Suspended Particulate (Tsp)	MOOSE CITY	Flathead	01-Jan-1978	31-Dec-1979
029	0034	12306	1	Nitrate (Tsp) Stp	MOOSE CITY	Flathead	01-Jan-1978	31-Dec-1979
029	0034	12403	1	Sulfate (Tsp) Stp	MOOSE CITY	Flathead	01-Jan-1978	31-Dec-1979
029	0035	11101	1	Suspended Particulate (Tsp)	POLEBRIDGE, MT	Flathead	01-Jan-1981	31-Dec-1983
029	0035	12110	1	Cadmium (Tsp) Stp	POLEBRIDGE, MT	Flathead	01-Jan-1981	31-Dec-1981
029	0035	12128	1	Lead (Tsp) Stp	POLEBRIDGE, MT	Flathead	01-Jan-1981	31-Dec-1981
029	0035	12306	1	Nitrate (Tsp) Stp	POLEBRIDGE, MT	Flathead	01-Jan-1981	31-Dec-1983
029	0035	12403	1	Sulfate (Tsp) Stp	POLEBRIDGE, MT	Flathead	01-Jan-1981	31-Dec-1983
029	0036	11101	1	Suspended Particulate (Tsp)	BIG FORK RANGER STATION	Flathead	01-Jan-1979	31-Dec-1983
029	0036	12306	1	Nitrate (Tsp) Stp	BIG FORK RANGER STATION	Flathead	01-Jan-1979	31-Dec-1983
029	0036	12403	1	Sulfate (Tsp) Stp	BIG FORK RANGER STATION	Flathead	01-Jan-1979	31-Dec-1983
029	0036	61101	1	Wind Speed	BIG FORK RANGER STATION	Flathead	01-Jan-1979	31-Dec-1983
029	0036	61102	1	Wind Direction	BIG FORK RANGER STATION	Flathead	01-Jan-1979	31-Dec-1983
029	0036	62101	1	Outdoor Temperature	BIG FORK RANGER STATION	Flathead	01-Jan-1979	31-Dec-1983
029	0036	63301	1	Solar Radiation	BIG FORK RANGER STATION	Flathead	01-Jan-1979	31-Dec-1980
029	0037	11101	1	Suspended Particulate (Tsp)	WHITEFISH, MT CORNER SECOND AND PINE	Flathead	01-Jan-1981	31-Dec-1983
029	0037	12306	1	Nitrate (Tsp) Stp	WHITEFISH, MT CORNER SECOND AND PINE	Flathead	01-Jan-1981	31-Dec-1983
029	0037	12403	1	Sulfate (Tsp) Stp	WHITEFISH, MT CORNER SECOND AND PINE	Flathead	01-Jan-1981	31-Dec-1983
029	0038	61101	1	Wind Speed	C.F.JR HIGH PLAYGROUND 4TH W & 7TH ST.	Flathead	01-Sep-1988	31-Dec-1989
029	0038	61102	1	Wind Direction	C.F.JR HIGH PLAYGROUND 4TH W & 7TH ST.	Flathead	01-Sep-1988	31-Dec-1989
029	0039	68101	1	Sample Flow Rate- Cv	WHITEFISH - MARKUS FOODS, 9 BAKER AVENUE	Flathead	01-Jan-1999	01-Apr-2001
029	0039	68102	1	Sample Volume	WHITEFISH - MARKUS FOODS, 9 BAKER AVENUE	Flathead	01-Jan-1999	01-Apr-2001
029	0039	68103	1	Ambient Min Temperature	WHITEFISH - MARKUS FOODS, 9 BAKER AVENUE	Flathead	01-Jan-1999	01-Apr-2001
029	0039	68104	1	Ambient Max Temperature	WHITEFISH - MARKUS FOODS, 9 BAKER AVENUE	Flathead	01-Jan-1999	01-Apr-2001
029	0039	68105	1	Ambient Temperature	WHITEFISH - MARKUS FOODS, 9 BAKER AVENUE	Flathead	01-Jan-1999	01-Apr-2001
029	0039	68106	1	Sample Min Baro Pressure	WHITEFISH - MARKUS FOODS, 9 BAKER AVENUE	Flathead	01-Jan-1999	01-Apr-2001
029	0039	68107	1	Sample Max Baro Pressure	WHITEFISH - MARKUS FOODS, 9 BAKER AVENUE	Flathead	01-Jan-1999	01-Apr-2001
029	0039	68108	1	Sample Baro Pressure	WHITEFISH - MARKUS FOODS, 9 BAKER AVENUE	Flathead	01-Jan-1999	01-Apr-2001
029	0039	68109	1	Elapsed Sample Time	WHITEFISH - MARKUS FOODS, 9 BAKER AVENUE	Flathead	01-Jan-1999	01-Apr-2001
029	0039	81102	2	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	WHITEFISH - MARKUS FOODS, 9 BAKER AVENUE	Flathead	16-Oct-1995	01-Apr-2001
029	0039	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	WHITEFISH - MARKUS FOODS, 9 BAKER AVENUE	Flathead	30-Apr-1991	01-Apr-2001
029	0039	85101	1	PM <sub>10</sub> - Lc	WHITEFISH - MARKUS FOODS, 9 BAKER AVENUE	Flathead	01-Jan-1998	01-Apr-2001
029	0039	85101	2	PM <sub>10</sub> - Lc	WHITEFISH - MARKUS FOODS, 9 BAKER AVENUE	Flathead	01-Jan-2000	01-Apr-2001

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029	0039	88101	1	PM <sub>2.5</sub> - Local Conditions	WHITEFISH - MARKUS FOODS, 9 BAKER AVENUE	Flathead	01-Jan-1999	01-Apr-2001
029	0040	21101	1	Total Dustfall (Sp)	HOUSTON DUSTFALL, 1326 2ND ST W, KALISPELL	Flathead	22-Aug-1991	01-Jul-1992
029	0040	25101	1	Dustfall Combustible (Sp)	HOUSTON DUSTFALL, 1326 2ND ST W, KALISPELL	Flathead	22-Aug-1991	01-Jul-1992
029	0041	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	WHITEFISH - PATTERSON CORRAL CMB	Flathead	01-Jan-1993	01-Apr-1994
029	0042	21101	1	Total Dustfall (Sp)	KALISPELL-KIGER DUSTFALL	Flathead	01-Dec-1992	01-Oct-1993
029	0042	25101	1	Dustfall Combustible (Sp)	KALISPELL-KIGER DUSTFALL	Flathead	01-Dec-1992	01-Oct-1993
029	0043	68101	1	Sample Flow Rate- Cv	EVERGREEN FIRESTATION 2236 HWY 2 E KSPL	Flathead	01-Jan-1999	24-Jun-1999
029	0043	68102	1	Sample Volume	EVERGREEN FIRESTATION 2236 HWY 2 E KSPL	Flathead	01-Jan-1999	24-Jun-1999
029	0043	68103	1	Ambient Min Temperature	EVERGREEN FIRESTATION 2236 HWY 2 E KSPL	Flathead	01-Jan-1999	24-Jun-1999
029	0043	68104	1	Ambient Max Temperature	EVERGREEN FIRESTATION 2236 HWY 2 E KSPL	Flathead	01-Jan-1999	24-Jun-1999
029	0043	68105	1	Ambient Temperature	EVERGREEN FIRESTATION 2236 HWY 2 E KSPL	Flathead	01-Jan-1999	24-Jun-1999
029	0043	68106	1	Sample Min Baro Pressure	EVERGREEN FIRESTATION 2236 HWY 2 E KSPL	Flathead	01-Jan-1999	24-Jun-1999
029	0043	68107	1	Sample Max Baro Pressure	EVERGREEN FIRESTATION 2236 HWY 2 E KSPL	Flathead	01-Jan-1999	24-Jun-1999
029	0043	68108	1	Sample Baro Pressure	EVERGREEN FIRESTATION 2236 HWY 2 E KSPL	Flathead	01-Jan-1999	24-Jun-1999
029	0043	68109	1	Elapsed Sample Time	EVERGREEN FIRESTATION 2236 HWY 2 E KSPL	Flathead	01-Jan-1999	24-Jun-1999
029	0043	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	EVERGREEN FIRESTATION 2236 HWY 2 E KSPL	Flathead	13-Jun-1994	31-Dec-1999
029	0043	85101	1	PM10 - Lc	EVERGREEN FIRESTATION 2236 HWY 2 E KSPL	Flathead	01-Jan-1998	31-Dec-1999
029	0043	88101	1	PM <sub>2.5</sub> - Local Conditions	EVERGREEN FIRESTATION 2236 HWY 2 E KSPL	Flathead	01-Jan-1999	24-Jun-1999
029	0044	21101	1	Total Dustfall (Sp)	KALISPELL-MORRIS DUSTFALL;53 MEADOWLARK	Flathead	01-Jul-1994	31-Jul-1995
029	0044	25101	1	Dustfall Combustible (Sp)	KALISPELL-MORRIS DUSTFALL;53 MEADOWLARK	Flathead	01-Jul-1994	31-Jul-1995
029	0045	42101	1	Carbon Monoxide	IDAHO & MAIN, KSPL JCT US HWY 93 & 2	Flathead	31-Oct-1995	29-Feb-2000
029	0045	61101	1	Wind Speed	IDAHO & MAIN, KSPL JCT US HWY 93 & 2	Flathead	24-Apr-1996	29-Feb-2000
029	0045	61102	1	Wind Direction	IDAHO & MAIN, KSPL JCT US HWY 93 & 2	Flathead	24-Apr-1996	29-Feb-2000
029	0045	61106	1	Std Dev Hz Wind Direction	IDAHO & MAIN, KSPL JCT US HWY 93 & 2	Flathead	24-Apr-1996	29-Feb-2000
029	0046	42101	1	Carbon Monoxide	LASER SCH-CRNR E WASHINGTON/6TH AVE EN	Flathead	01-Nov-1996	20-Jun-1999
029	0047	42101	1	Carbon Monoxide	FLATHEAD ELEC/CENTER ST & WOODLAND AVE	Flathead	24-Jun-1999	31-Dec-2005
029	0047	68101	1	Sample Flow Rate- Cv	FLATHEAD ELEC/CENTER ST & WOODLAND AVE	Flathead	26-Jun-1999	01-Jan-2007
029	0047	68102	1	Sample Volume	FLATHEAD ELEC/CENTER ST & WOODLAND AVE	Flathead	26-Jun-1999	01-Jan-2007
029	0047	68103	1	Ambient Min Temperature	FLATHEAD ELEC/CENTER ST & WOODLAND AVE	Flathead	26-Jun-1999	01-Jan-2007
029	0047	68104	1	Ambient Max Temperature	FLATHEAD ELEC/CENTER ST & WOODLAND AVE	Flathead	26-Jun-1999	01-Jan-2007
029	0047	68105	1	Ambient Temperature	FLATHEAD ELEC/CENTER ST & WOODLAND AVE	Flathead	26-Jun-1999	
029	0047	68106	1	Sample Min Baro Pressure	FLATHEAD ELEC/CENTER ST & WOODLAND AVE	Flathead	26-Jun-1999	01-Jan-2007
029	0047	68107	1	Sample Max Baro Pressure	FLATHEAD ELEC/CENTER ST & WOODLAND AVE	Flathead	26-Jun-1999	01-Jan-2007

029	0047	68108	1	Sample Baro Pressure	ELATHEAD ELEC/CENTER ST & WOODLAND AVE	Flathead	26-Jun-1999	
029	0047	68109	1	Flapsed Sample Time	FLATHEAD ELEC/CENTER ST & WOODLAND AVE	Flathead	26-Jun-1999	01-Jan-2007
029	0047	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	FLATHEAD ELEC/CENTER ST & WOODLAND AVE	Flathead	01-Jul-1999	30-Jun-2008
029	0047	81102	2	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	FLATHEAD ELEC/CENTER ST & WOODLAND AVE	Flathead	05-Jul-2008	
029	0047	85101	2	PM <sub>10</sub> - Lc	FLATHEAD ELEC/CENTER ST & WOODLAND AVE	Flathead	05-Jul-2008	31-Dec-2008
029	0047	85101	1	PM <sub>10</sub> - Lc	FLATHEAD ELEC/CENTER ST & WOODLAND AVE	Flathead	01-Jan-2000	30-Jun-2008
029	0047	88101	1	PM <sub>2.5</sub> - Local Conditions	FLATHEAD ELEC/CENTER ST & WOODLAND AVE	Flathead	26-Jun-1999	
029	0047	88502	3	Accpt.PM25 AQI Spec.Mass	FLATHEAD ELEC/CENTER ST & WOODLAND AVE	Flathead	01-Jul-2008	
029	0048	42101	1	Carbon Monoxide	2510 HWY 2 EAST	Flathead	04-Apr-2000	12-Aug-2003
029	0301	11203	1	Light Scatter	BRANDT	Flathead	01-Jan-1977	31-Dec-1978
029	0301	61101	1	Wind Speed	BRANDT	Flathead	01-Jan-1979	31-Dec-1979
029	0301	62101	1	Outdoor Temperature	BRANDT	Flathead	01-Jan-1979	31-Dec-1979
029	0301	63301	1	Solar Radiation	BRANDT	Flathead	01-Jan-1977	31-Dec-1977
029	0302	61101	1	Wind Speed	GEIS	Flathead	01-Jan-1979	31-Dec-1979
029	0302	61102	1	Wind Direction	GEIS	Flathead	01-Jan-1979	31-Dec-1979
029	0302	62101	1	Outdoor Temperature	GEIS	Flathead	01-Jan-1978	31-Dec-1979
029	0302	63301	1	Solar Radiation	GEIS	Flathead	01-Jan-1977	31-Dec-1979
029	0304	11101	1	Suspended Particulate (Tsp)	GLACIER AIRPORT	Flathead	01-Jan-1979	31-Dec-1982
029	0304	11203	1	Light Scatter	GLACIER AIRPORT	Flathead	01-Jan-1976	31-Dec-1983
029	0304	12306	1	Nitrate (Tsp) Stp	GLACIER AIRPORT	Flathead	01-Jan-1979	31-Dec-1982
029	0304	12403	1	Sulfate (Tsp) Stp	GLACIER AIRPORT	Flathead	01-Jan-1979	31-Dec-1982
029	0304	61101	1	Wind Speed	GLACIER AIRPORT	Flathead	01-Jan-1976	31-Dec-1983
029	0304	61102	1	Wind Direction	GLACIER AIRPORT	Flathead	01-Jan-1976	31-Dec-1983
029	0304	62101	1	Outdoor Temperature	GLACIER AIRPORT	Flathead	01-Jan-1979	31-Dec-1983
029	0304	62103	1	Dew Point	GLACIER AIRPORT	Flathead	01-Jan-1979	31-Dec-1979
029	0304	63301	2	Solar Radiation	GLACIER AIRPORT	Flathead	01-Jan-1979	31-Dec-1981
029	0304	63301	1	Solar Radiation	GLACIER AIRPORT	Flathead	01-Jan-1976	31-Dec-1983
029	0304	63301	3	Solar Radiation	GLACIER AIRPORT	Flathead	01-Jan-1979	31-Dec-1980
029	0304	64101	1	Barometric Pressure	GLACIER AIRPORT	Flathead	01-Jan-1978	31-Dec-1980
029	0308	61101	1	Wind Speed	BIG PRAIRIE	Flathead	01-Jan-1980	31-Dec-1982
029	0308	61102	1	Wind Direction	BIG PRAIRIE	Flathead	01-Jan-1980	31-Dec-1982
029	0308	62101	1	Outdoor Temperature	BIG PRAIRIE	Flathead	01-Jan-1980	31-Dec-1982
029	0707	12208	1	Fluoride (Vegation)	COLUMBIA FALLS ALUMINUM-DOANE	Flathead	01-Jan-1982	

029	0708	12208	1	Fluoride (Vegation)	COLUMBIA FALLS ALUMINUM-HOFEMAN	Flathead	01-Jan-1982	
029	0709	12208	1	Fluoride (Vegation)		Flathead	01-Jan-1982	31-Dec-1990
029	0710	12208	1	Fluoride (Vegation)	CEAC-NEW LIDDLE 7200 HWY 2E, COL FALLS	Flathead	30-May-1991	01 200 1000
029	0711	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	CEAC-PM10 AMBIENT 2000 AI UMINUM DRIVE CE	Flathead	13-Jan-1993	31-Dec-1997
029	0711	85101	1	PM <sub>10</sub> - Lc	CFAC-PM10 AMBIENT.2000 ALUMINUM DRIVE.CF	Flathead	01-Jan-1998	28-Sep-2000
029	1002	11101	1	Suspended Particulate (Tsp)	DEHLBOM RANCH, COLUMBIA FALLS, MT	Flathead	01-Jan-1973	31-Dec-1976
029	1002	12209	2	Fluoride (Paper Samplers)	DEHLBOM RANCH, COLUMBIA FALLS, MT	Flathead	01-Jan-1982	31-Dec-1983
029	1002	12209	1	Fluoride (Paper Samplers)	DEHLBOM RANCH, COLUMBIA FALLS, MT	Flathead	01-Jan-1982	31-Dec-1983
029	1003	12209	1	Fluoride (Paper Samplers)	FIERSTEIN RANCH, COLUMBIA FALLS, MT	Flathead	01-Jan-1982	31-Dec-1983
029	1003	12209	2	Fluoride (Paper Samplers)	FIERSTEIN RANCH, COLUMBIA FALLS, MT	Flathead	01-Jan-1982	31-Dec-1983
029	1005	12209	2	Fluoride (Paper Samplers)	(BADROCK SUBSTATION) W. OF HUNGRY HORSE	Flathead	01-Jan-1982	31-Dec-1983
029	1005	12209	1	Fluoride (Paper Samplers)	(BADROCK SUBSTATION) W. OF HUNGRY HORSE	Flathead	01-Jan-1982	31-Dec-1983
029	1011	11101	1	Suspended Particulate (Tsp)	MCLAUGHLIN, 222-8TH ST E	Flathead	01-Jan-1975	31-Dec-1975
029	1012	11101	1	Suspended Particulate (Tsp)	19 5TH AVE W UNIT 12	Flathead	01-Jan-1975	31-Dec-1976
029	1013	12209	1	Fluoride (Paper Samplers)	FISH CREEK, .5 MILE N OF APGAR, MT	Flathead	01-Jan-1982	31-Dec-1983
029	1013	42410	1	Sulfation Rate	FISH CREEK, .5 MILE N OF APGAR, MT	Flathead	01-Jan-1982	31-Dec-1983
029	1014	12209	1	Fluoride (Paper Samplers)	LEBRIDGE RANGER STATION 1 MI NORTH	Flathead	01-Jan-1982	31-Dec-1983
029	1014	12209	2	Fluoride (Paper Samplers)	LEBRIDGE RANGER STATION 1 MI NORTH	Flathead	01-Jan-1982	31-Dec-1983
029	1014	42410	1	Sulfation Rate	LEBRIDGE RANGER STATION 1 MI NORTH	Flathead	01-Jan-1982	31-Dec-1983
029	1015	11101	1	Suspended Particulate (Tsp)	UNIVERSAL ATHLETIC, 223 MAIN ST	Flathead	01-Jan-1980	31-Dec-1987
029	1015	12306	1	Nitrate (Tsp) Stp	UNIVERSAL ATHLETIC, 223 MAIN ST	Flathead	01-Jan-1980	31-Dec-1984
029	1015	12403	1	Sulfate (Tsp) Stp	UNIVERSAL ATHLETIC, 223 MAIN ST	Flathead	01-Jan-1980	31-Dec-1984
029	1015	81102	3	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	UNIVERSAL ATHLETIC, 223 MAIN ST	Flathead	28-Sep-1995	14-Jun-1999
029	1015	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	UNIVERSAL ATHLETIC, 223 MAIN ST	Flathead	24-Jul-1985	31-Dec-1987
029	1015	81102	2	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	UNIVERSAL ATHLETIC, 223 MAIN ST	Flathead	21-Apr-1987	30-Jun-2001
029	1015	85101	1	PM <sub>10</sub> - Lc	UNIVERSAL ATHLETIC, 223 MAIN ST	Flathead	01-Jan-1998	30-Jun-2001
029	1016	11101	1	Suspended Particulate (Tsp)	510 LASALLE RD. KALISPELL	Flathead	01-Jan-1980	31-Dec-1982
029	1016	12306	1	Nitrate (Tsp) Stp	510 LASALLE RD. KALISPELL	Flathead	01-Jan-1982	31-Dec-1982
029	1016	12403	1	Sulfate (Tsp) Stp	510 LASALLE RD. KALISPELL	Flathead	01-Jan-1982	31-Dec-1982
029	1017	11101	1	Suspended Particulate (Tsp)	COURTHOUSE EAST, 723 5TH AVE EAST	Flathead	01-Jan-1983	31-Dec-1984
029	1017	11203	1	Light Scatter	COURTHOUSE EAST, 723 5TH AVE EAST	Flathead	01-Jan-1991	31-Mar-1993
029	1017	12306	1	Nitrate (Tsp) Stp	COURTHOUSE EAST, 723 5TH AVE EAST	Flathead	01-Jan-1984	31-Dec-1984
029	1017	12403	1	Sulfate (Tsp) Stp	COURTHOUSE EAST, 723 5TH AVE EAST	Flathead	01-Jan-1984	31-Dec-1984

029	1018	81102	2	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	EAST MAINTENANCE BUILDING, KALISPELL	Flathead	10-Oct-1993	10-Aug-1995
029	1018	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	EAST MAINTENANCE BUILDING, KALISPELL	Flathead	01-Oct-1993	27-Sep-1995
029	1022	12209	1	Fluoride (Paper Samplers)	WALTON RANGER STATION .5 MI SE OF ESSEX	Flathead	01-Jan-1982	31-Dec-1983
029	1022	42410	1	Sulfation Rate	WALTON RANGER STATION .5 MI SE OF ESSEX	Flathead	01-Jan-1982	31-Dec-1983
029	2002	11101	1	Suspended Particulate (Tsp)	GEORGE MAYHEW 39 SUNSET DRIVE	Flathead	01-Jan-1971	31-Dec-1974
029	2002	11103	1	Benzene Sol.Organics(TSP)	GEORGE MAYHEW 39 SUNSET DRIVE	Flathead	01-Jan-1971	31-Dec-1972
029	2002	12110	1	Cadmium (Tsp) Stp	GEORGE MAYHEW 39 SUNSET DRIVE	Flathead	01-Jan-1972	31-Dec-1972
029	2002	12128	1	Lead (Tsp) Stp	GEORGE MAYHEW 39 SUNSET DRIVE	Flathead	01-Jan-1972	31-Dec-1972
029	2002	12167	1	Zinc (Tsp) Stp	GEORGE MAYHEW 39 SUNSET DRIVE	Flathead	01-Jan-1972	31-Dec-1972
029	2003	12209	1	Fluoride (Paper Samplers)	SOUTH SLOPE OF APGAR MOUNTAIN	Flathead	01-Jan-1982	31-Dec-1983
029	2003	42410	1	Sulfation Rate	SOUTH SLOPE OF APGAR MOUNTAIN	Flathead	01-Jan-1982	31-Dec-1983
029	2005	12209	1	Fluoride (Paper Samplers)	FLATHEAD RANGER STATION	Flathead	01-Jan-1982	31-Dec-1983
029	2005	42410	1	Sulfation Rate	FLATHEAD RANGER STATION	Flathead	01-Jan-1982	31-Dec-1983
029	2013	11101	1	Suspended Particulate (Tsp)	140 7TH AVE. WEST KALISPELL, MONTANA	Flathead	01-Jan-1977	31-Dec-1978
029	2014	11101	1	Suspended Particulate (Tsp)	STROM RESIDENCE, 534 FOURTH AVE EAST	Flathead	01-Jan-1978	31-Dec-1980
029	2014	12306	1	Nitrate (Tsp) Stp	STROM RESIDENCE, 534 FOURTH AVE EAST	Flathead	01-Jan-1979	31-Dec-1980
029	2014	12403	1	Sulfate (Tsp) Stp	STROM RESIDENCE, 534 FOURTH AVE EAST	Flathead	01-Jan-1979	31-Dec-1980
029	8001	44201	1	Ozone	GLACIER NATIONAL PARK	Flathead	01-Jan-1989	
029	8001	44201	2	Ozone	GLACIER NATIONAL PARK	Flathead	01-Apr-1989	31-Mar-1995
029	8001	61101	1	Wind Speed	GLACIER NATIONAL PARK	Flathead	01-Jan-1989	
029	8001	61103	1	Resultant Speed	GLACIER NATIONAL PARK	Flathead	01-Jan-1989	
029	8001	61104	1	Resultant Direction	GLACIER NATIONAL PARK	Flathead	01-Jan-1989	
029	8001	61106	1	Std Dev Hz Wind Direction	GLACIER NATIONAL PARK	Flathead	01-Jan-1989	
029	8001	62101	1	Outdoor Temperature	GLACIER NATIONAL PARK	Flathead	01-Jan-1989	
029	8001	62106	1	Temperature Difference	GLACIER NATIONAL PARK	Flathead	01-Jan-1989	
029	8001	62201	1	Relative Humidity	GLACIER NATIONAL PARK	Flathead	01-Jan-1989	
029	8001	63301	1	Solar Radiation	GLACIER NATIONAL PARK	Flathead	01-Jan-1989	
029	8001	65102	1	Rain/Melt Precipitation	GLACIER NATIONAL PARK	Flathead	01-Jan-1989	
029	9001	11208	1	Deciview	Glacier NP	Flathead	02-Mar-1988	
029	9001	42401	1	Sulfur Dioxide	Glacier NP	Flathead	02-Mar-1988	
029	9001	62201	1	Relative Humidity	Glacier NP	Flathead	02-Mar-1988	
029	9001	62202	1	Relative Humidity Factor	Glacier NP	Flathead	02-Mar-1988	
029	9001	63102	1	Light Absorption Coeffiecient	Glacier NP	Flathead	09-Mar-1988	

029	9001	81103	1	Pm 10 <sub>2.5</sub> Stp	Glacier NP	Flathead	01-Jan-2005
029	9001	84203	1	Chloride PM <sub>2.5</sub> Stp	Glacier NP	Flathead	02-Mar-1988
029	9001	84306	1	Nitrate PM <sub>2.5</sub> Stp	Glacier NP	Flathead	01-Jan-2006
029	9001	85101	1	PM <sub>10</sub> - Lc	Glacier NP	Flathead	02-Mar-1988
029	9001	86502	1	Acceptable PM <sub>102.5</sub> LC	Glacier NP	Flathead	09-Mar-1988
029	9001	88103	1	Arsenic PM <sub>2.5</sub> Lc	Glacier NP	Flathead	02-Mar-1988
029	9001	88104	1	Aluminum PM <sub>2.5</sub> Lc	Glacier NP	Flathead	02-Mar-1988
029	9001	88109	1	Bromine PM <sub>2.5</sub> Lc	Glacier NP	Flathead	02-Mar-1988
029	9001	88111	1	Calcium PM <sub>2.5</sub> Lc	Glacier NP	Flathead	02-Mar-1988
029	9001	88112	1	Chromium PM <sub>2.5</sub> Lc	Glacier NP	Flathead	02-Mar-1988
029	9001	88114	1	Copper PM <sub>2.5</sub> Lc	Glacier NP	Flathead	02-Mar-1988
029	9001	88115	1	Chlorine PM <sub>2.5</sub> Lc	Glacier NP	Flathead	02-Mar-1988
029	9001	88126	1	Iron PM <sub>2.5</sub> Lc	Glacier NP	Flathead	02-Mar-1988
029	9001	88128	1	Lead PM <sub>2.5</sub> Lc	Glacier NP	Flathead	02-Mar-1988
029	9001	88132	1	Manganese PM <sub>2.5</sub> Lc	Glacier NP	Flathead	02-Mar-1988
029	9001	88134	1	Molybdenum PM <sub>2.5</sub> Lc	Glacier NP	Flathead	02-Mar-1988
029	9001	88136	1	Nickel PM <sub>2.5</sub> Lc	Glacier NP	Flathead	02-Mar-1988
029	9001	88140	1	Magnesium PM <sub>2.5</sub> Lc	Glacier NP	Flathead	02-Mar-1988
029	9001	88152	1	Phosphorus PM <sub>2.5</sub> Lc	Glacier NP	Flathead	02-Mar-1988
029	9001	88154	1	Selenium PM <sub>2.5</sub> Lc	Glacier NP	Flathead	02-Mar-1988
029	9001	88161	1	Titanium PM <sub>2.5</sub> Lc	Glacier NP	Flathead	02-Mar-1988
029	9001	88164	1	Vanadium PM <sub>2.5</sub> Lc	Glacier NP	Flathead	02-Mar-1988
029	9001	88165	1	Silicon PM <sub>2.5</sub> Lc	Glacier NP	Flathead	02-Mar-1988
029	9001	88167	1	Zinc PM <sub>2.5</sub> Lc	Glacier NP	Flathead	02-Mar-1988
029	9001	88168	1	Strontium PM <sub>2.5</sub> Lc	Glacier NP	Flathead	02-Mar-1988
029	9001	88169	1	Sulfur PM <sub>2.5</sub> Lc	Glacier NP	Flathead	02-Mar-1988
029	9001	88176	1	Rubidium PM <sub>2.5</sub> Lc	Glacier NP	Flathead	02-Mar-1988
029	9001	88180	1	Potassium PM <sub>2.5</sub> Lc	Glacier NP	Flathead	02-Mar-1988
029	9001	88184	1	Sodium PM <sub>2.5</sub> Lc	Glacier NP	Flathead	02-Mar-1988
029	9001	88185	1	Zirconium PM <sub>2.5</sub> Lc	Glacier NP	Flathead	02-Mar-1988
029	9001	88203	1	Chloride PM <sub>2.5</sub> Lc	Glacier NP	Flathead	02-Mar-1988
029	9001	88301	1	Ammonium Ion PM2.5 Lc	Glacier NP	Flathead	02-Mar-1988
029	9001	88306	1	Total Nitrate PM <sub>2.5</sub> Lc	Glacier NP	Flathead	02-Mar-1988

029	9001	88307	1	Ec Csn PM <sub>2.5</sub> LC	Glacier NP	Flathead	02-Mar-1988	
029	9001	88320	1	Oc PM <sub>2.5</sub> Lc Tor	Glacier NP	Flathead	02-Mar-1988	
029	9001	88321	1	Ec PM <sub>2.5</sub> Lc Tor	Glacier NP	Flathead	01-Jan-2005	
029	9001	88328	1	Op PM <sub>2.5</sub> Lc Tor	Glacier NP	Flathead	01-Jan-2005	
029	9001	88329	1	Ec1 PM <sub>2.5</sub> Lc	Glacier NP	Flathead	02-Mar-1988	
029	9001	88330	1	Ec2 PM <sub>2.5</sub> Lc	Glacier NP	Flathead	02-Mar-1988	
029	9001	88331	1	Ec3 PM <sub>2.5</sub> Lc	Glacier NP	Flathead	02-Mar-1988	
029	9001	88332	1	Oc1 Csn Unadj PM <sub>2.5</sub> LC	Glacier NP	Flathead	02-Mar-1988	
029	9001	88333	1	Oc2 Csn Unadj PM <sub>2.5</sub> LC	Glacier NP	Flathead	02-Mar-1988	
029	9001	88334	1	Oc3 Csn Unadj PM <sub>2.5</sub> LC	Glacier NP	Flathead	02-Mar-1988	
029	9001	88335	1	Oc4 Csn Unadj PM <sub>2.5</sub> LC	Glacier NP	Flathead	02-Mar-1988	
029	9001	88336	1	Op Csn PM <sub>2.5</sub> LC	Glacier NP	Flathead	02-Mar-1988	
029	9001	88337	1	Hydrogen PM <sub>2.5</sub> Lc	Glacier NP	Flathead	02-Mar-1988	
029	9001	88338	1	Nitrite PM <sub>2.5</sub> Lc	Glacier NP	Flathead	02-Mar-1988	
029	9001	88339	1	NH4NO3 PM <sub>2.5</sub> Lc	Glacier NP	Flathead	02-Mar-1988	
029	9001	88340	1	NH4NO3 Extinct.PM <sub>2.5</sub> Lc	Glacier NP	Flathead	02-Mar-1988	
029	9001	88341	1	Aerosol Extinct.PM <sub>2.5</sub> Lc	Glacier NP	Flathead	09-Mar-1988	
029	9001	88342	1	Coar. Mass Extinct.PM25 Lc	Glacier NP	Flathead	09-Mar-1988	
029	9001	88343	1	EC Extinct.PM <sub>2.5</sub> Lc	Glacier NP	Flathead	02-Mar-1988	
029	9001	88344	1	NH4NO3 PM <sub>2.5</sub> Lc	Glacier NP	Flathead	02-Mar-1988	
029	9001	88345	1	NH4NO3 Extinct. PM <sub>2.5</sub> Lc	Glacier NP	Flathead	02-Mar-1988	
029	9001	88346	1	OC Extinct.PM <sub>2.5</sub> Lc	Glacier NP	Flathead	02-Mar-1988	
029	9001	88348	1	Soil PM <sub>2.5</sub> Lc	Glacier NP	Flathead	02-Mar-1988	
029	9001	88349	1	Soil Extinct.PM <sub>2.5</sub> Lc	Glacier NP	Flathead	02-Mar-1988	
029	9001	88350	1	OC Mass PM <sub>2.5</sub> Lc	Glacier NP	Flathead	02-Mar-1988	
029	9001	88395	1	Sea Salt (PM <sub>2.5</sub> )	Glacier NP	Flathead	02-Mar-1988	
029	9001	88401	1	Reconstruct.Mass PM <sub>2.5</sub> Lc	Glacier NP	Flathead	02-Mar-1988	
029	9001	88403	1	Sulfate PM <sub>2.5</sub> Lc	Glacier NP	Flathead	02-Mar-1988	
029	9001	88502	1	Accpt.PM25 AQI Spec.Mass	Glacier NP	Flathead	02-Mar-1988	
031	0001	11101	1	Suspended Particulate (Tsp)	TRAPHAGEN HALL, MSU - BOZEMAN, MT	Gallatin	01-Jan-1978	31-Dec-1982
031	0001	12101	1	Aluminum (Tsp) Stp	TRAPHAGEN HALL, MSU - BOZEMAN, MT	Gallatin	01-Jan-1978	31-Dec-1978
031	0001	12103	1	Arsenic (Tsp) Stp	TRAPHAGEN HALL, MSU - BOZEMAN, MT	Gallatin	01-Jan-1978	31-Dec-1978
031	0001	12110	1	Cadmium (Tsp) Stp	TRAPHAGEN HALL, MSU - BOZEMAN, MT	Gallatin	01-Jan-1978	31-Dec-1978

031	0001	12112	1	Chromium (Tsp) Stp	TRAPHAGEN HALL, MSU - BOZEMAN, MT	Gallatin	01-Jan-1978	31-Dec-1978
031	0001	12114	1	Copper (Tsp) Stp	TRAPHAGEN HALL, MSU - BOZEMAN, MT	Gallatin	01-Jan-1978	31-Dec-1978
031	0001	12126	1	Iron (Tsp) Stp	TRAPHAGEN HALL, MSU - BOZEMAN, MT	Gallatin	01-Jan-1978	31-Dec-1978
031	0001	12128	1	Lead (Tsp) Stp	TRAPHAGEN HALL, MSU - BOZEMAN, MT	Gallatin	01-Jan-1978	31-Dec-1978
031	0001	12132	1	Manganese (Tsp) Stp	TRAPHAGEN HALL, MSU - BOZEMAN, MT	Gallatin	01-Jan-1978	31-Dec-1978
031	0001	12136	1	Nickel (Tsp) Stp	TRAPHAGEN HALL, MSU - BOZEMAN, MT	Gallatin	01-Jan-1978	31-Dec-1978
031	0001	12164	1	Vanadium (Tsp) Stp	TRAPHAGEN HALL, MSU - BOZEMAN, MT	Gallatin	01-Jan-1978	31-Dec-1978
031	0001	12167	1	Zinc (Tsp) Stp	TRAPHAGEN HALL, MSU - BOZEMAN, MT	Gallatin	01-Jan-1978	31-Dec-1978
031	0001	12306	1	Nitrate (Tsp) Stp	TRAPHAGEN HALL, MSU - BOZEMAN, MT	Gallatin	01-Jan-1978	31-Dec-1979
031	0001	12403	1	Sulfate (Tsp) Stp	TRAPHAGEN HALL, MSU - BOZEMAN, MT	Gallatin	01-Jan-1978	31-Dec-1979
031	0002	11101	1	Suspended Particulate (Tsp)	CITY BUILDING, 34 NORTH ROUSE	Gallatin	01-Jan-1980	31-Dec-1987
031	0002	12403	1	Sulfate (Tsp) Stp	CITY BUILDING, 34 NORTH ROUSE	Gallatin	01-Jan-1982	31-Dec-1982
031	0002	81102	2	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	CITY BUILDING, 34 NORTH ROUSE	Gallatin	09-Apr-1987	05-Aug-2002
031	0002	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	CITY BUILDING, 34 NORTH ROUSE	Gallatin	18-Jul-1985	31-Dec-1987
031	0002	85101	1	PM10 - Lc	CITY BUILDING, 34 NORTH ROUSE	Gallatin	01-Jan-1998	05-Aug-2002
031	0003	11101	1	Suspended Particulate (Tsp)	MSU FAMILY HOUSING, 19TH & COLLEGE ST	Gallatin	01-Jan-1980	31-Dec-1981
031	0004	61101	1	Wind Speed	BIG SKY GOLF COURSE	Gallatin	01-Jan-1982	31-Dec-1983
031	0004	61102	1	Wind Direction	BIG SKY GOLF COURSE	Gallatin	01-Jan-1982	31-Dec-1983
031	0004	62101	1	Outdoor Temperature	BIG SKY GOLF COURSE	Gallatin	01-Jan-1982	31-Dec-1983
031	0005	11101	1	Suspended Particulate (Tsp)	WHITTIER SCHOOL, 515 N 5TH AVENUE	Gallatin	01-Jan-1981	31-Dec-1985
031	0006	68101	1	Sample Flow Rate- Cv	BOZEMAN - W WTP	Gallatin	05-Aug-2005	01-Jan-2007
031	0006	68102	1	Sample Volume	BOZEMAN - W WTP	Gallatin	05-Aug-2005	01-Jan-2007
031	0006	68103	1	Ambient Min Temperature	BOZEMAN - W WTP	Gallatin	05-Aug-2005	01-Jan-2007
031	0006	68104	1	Ambient Max Temperature	BOZEMAN - W WTP	Gallatin	05-Aug-2005	01-Jan-2007
031	0006	68105	1	Ambient Temperature	BOZEMAN - W WTP	Gallatin	05-Aug-2005	01-Oct-2008
031	0006	68106	1	Sample Min Baro Pressure	BOZEMAN - W WTP	Gallatin	05-Aug-2005	01-Jan-2007
031	0006	68107	1	Sample Max Baro Pressure	BOZEMAN - W WTP	Gallatin	05-Aug-2005	01-Jan-2007
031	0006	68108	1	Sample Baro Pressure	BOZEMAN - W WTP	Gallatin	05-Aug-2005	01-Oct-2008
031	0006	68109	1	Elapsed Sample Time	BOZEMAN - W WTP	Gallatin	05-Aug-2005	01-Jan-2007
031	0006	88101	1	PM <sub>2.5</sub> - Local Conditions	BOZEMAN - W WTP	Gallatin	05-Aug-2005	01-Oct-2008
031	0006	88502	3	Accpt.PM25 AQI Spec.Mass	BOZEMAN - W WTP	Gallatin	02-Jul-2008	01-Oct-2008
031	0007	11101	1	Suspended Particulate (Tsp)	SOURDOUGH CREEK, 211 EAST MASON STREET	Gallatin	01-Jan-1985	31-Dec-1987
031	8000	68101	1	Sample Flow Rate- Cv	ConAgra,100 S BROADWAY,BELGRAD	Gallatin	01-Jan-2000	01-Jan-2007

031	0008	68102	1 Sample Volume	ConAgra,100 S BROADWAY,BELGRAD	Gallatin	01-Jan-2000	01-Jan-2007
031	0008	68103	1 Ambient Min Temperature	ConAgra,100 S BROADWAY,Belgrade	Gallatin	01-Jan-2000	01-Jan-2007
031	0008	68104	1 Ambient Max Temperature	ConAgra,100 S BROADWAY,Belgrade	Gallatin	01-Jan-2000	01-Jan-2007
031	0008	68105	1 Ambient Temperature	ConAgra,100 S BROADWAY,Belgrade	Gallatin	01-Jan-2000	
031	0008	68106	1 Sample Min Baro Pressure	ConAgra,100 S BROADWAY,Belgrade	Gallatin	01-Jan-2000	01-Jan-2007
031	0008	68107	1 Sample Max Baro Pressure	ConAgra,100 S BROADWAY,Belgrade	Gallatin	01-Jan-2000	01-Jan-2007
031	0008	68108	1 Sample Baro Pressure	ConAgra,100 S BROADWAY,Belgrade	Gallatin	01-Jan-2000	
031	0008	68109	1 Elapsed Sample Time	ConAgra,100 S BROADWAY,Belgrade	Gallatin	01-Jan-2000	01-Jan-2007
031	0008	81102	2 PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	ConAgra,100 S BROADWAY,Belgrade	Gallatin	02-Jan-2002	16-May-2005
031	0008	81102	1 PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	ConAgra,100 S BROADWAY,Belgrade	Gallatin	05-Oct-1991	16-May-2005
031	0008	85101	1 PM <sub>10</sub> - Lc	ConAgra,100 S BROADWAY,Belgrade	Gallatin	01-Jan-1998	16-May-2005
031	0008	85101	2 PM <sub>10</sub> - Lc	ConAgra,100 S BROADWAY,Belgrade	Gallatin	02-Jan-2002	16-May-2005
031	0008	88101	1 PM <sub>2.5</sub> - Local Conditions	ConAgra,100 S BROADWAY,Belgrade	Gallatin	01-Jan-2000	
031	0009	81102	1 PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	W.YELLOWSTONE; YNP WEST ENTRANCE	Gallatin	07-Oct-1994	20-Mar-1995
031	0012	81102	1 PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	FIREHOLE,W YLLSTN(FIRHOLE & DUNRAVEN)	Gallatin	27-Nov-1995	29-Jun-2006
031	0012	85101	1 PM <sub>10</sub> - Lc	FIREHOLE,W YLLSTN(FIRHOLE & DUNRAVEN)	Gallatin	01-Jan-1998	29-Jun-2006
031	0013	42101	1 Carbon Monoxide	YLLSTN NAT'L PARK WEST ENTRANCE STATION	Gallatin	22-Oct-1998	08-Mar-2008
031	0013	61101	1 Wind Speed	YLLSTN NAT'L PARK WEST ENTRANCE STATION	Gallatin	22-Oct-1998	01-Jan-1999
031	0013	61102	1 Wind Direction	YLLSTN NAT'L PARK WEST ENTRANCE STATION	Gallatin	16-Nov-1998	01-Jan-1999
031	0013	61106	1 Std Dev Hz Wind Direction	YLLSTN NAT'L PARK WEST ENTRANCE STATION	Gallatin	16-Nov-1998	01-Jan-1999
031	0013	68101	1 Sample Flow Rate- Cv	YLLSTN NAT'L PARK WEST ENTRANCE STATION	Gallatin	12-Oct-2003	01-Jan-2007
031	0013	68102	1 Sample Volume	YLLSTN NAT'L PARK WEST ENTRANCE STATION	Gallatin	12-Oct-2003	01-Jan-2007
031	0013	68103	1 Ambient Min Temperature	YLLSTN NAT'L PARK WEST ENTRANCE STATION	Gallatin	12-Oct-2003	01-Jan-2007
031	0013	68104	1 Ambient Max Temperature	YLLSTN NAT'L PARK WEST ENTRANCE STATION	Gallatin	12-Oct-2003	01-Jan-2007
031	0013	68105	1 Ambient Temperature	YLLSTN NAT'L PARK WEST ENTRANCE STATION	Gallatin	12-Oct-2003	08-Mar-2008
031	0013	68106	1 Sample Min Baro Pressure	YLLSTN NAT'L PARK WEST ENTRANCE STATION	Gallatin	12-Oct-2003	01-Jan-2007
031	0013	68107	1 Sample Max Baro Pressure	YLLSTN NAT'L PARK WEST ENTRANCE STATION	Gallatin	12-Oct-2003	01-Jan-2007
031	0013	68108	1 Sample Baro Pressure	YLLSTN NAT'L PARK WEST ENTRANCE STATION	Gallatin	12-Oct-2003	08-Mar-2008
031	0013	68109	1 Elapsed Sample Time	YLLSTN NAT'L PARK WEST ENTRANCE STATION	Gallatin	12-Oct-2003	01-Jan-2007
031	0013	88101	1 PM <sub>2.5</sub> - Local Conditions	YLLSTN NAT'L PARK WEST ENTRANCE STATION	Gallatin	12-Oct-2003	09-Mar-2008
031	0013	88502	3 Accpt.PM25 AQI Spec.Mass	YLLSTN NAT'L PARK WEST ENTRANCE STATION	Gallatin	17-Oct-2003	08-Mar-2008
031	0014	61101	1 Wind Speed	4070 TRIDENT ROAD	Gallatin	31-Mar-2000	01-Apr-2001
031	0014	61102	1 Wind Direction	4070 TRIDENT ROAD	Gallatin	31-Mar-2000	01-Apr-2001

031	0014	61106	1	Std Dev Hz Wind Direction	4070 TRIDENT ROAD	Gallatin	31-Mar-2000	01-Apr-2001
031	0014	62101	1	Outdoor Temperature	4070 TRIDENT ROAD	Gallatin	31-Mar-2000	01-Apr-2001
031	0014	62101	2	Outdoor Temperature	4070 TRIDENT ROAD	Gallatin	31-Mar-2000	01-Apr-2001
031	0014	62106	1	Temperature Difference	4070 TRIDENT ROAD	Gallatin	31-Mar-2000	01-Apr-2001
031	0014	63301	1	Solar Radiation	4070 TRIDENT ROAD	Gallatin	31-Mar-2000	01-Apr-2001
031	0014	65102	1	Rain/Melt Precipitation	4070 TRIDENT ROAD	Gallatin	31-Mar-2000	01-Apr-2001
031	0015	42101	1	Carbon Monoxide	Yellowstone National Park West Entrance	Gallatin	17-Dec-2002	15-Mar-2003
031	0015	61101	1	Wind Speed	Yellowstone National Park West Entrance	Gallatin	17-Dec-2002	15-Mar-2003
031	0015	61104	1	Resultant Direction	Yellowstone National Park West Entrance	Gallatin	17-Dec-2002	15-Mar-2003
031	0015	61106	1	Std Dev Hz Wind Direction	Yellowstone National Park West Entrance	Gallatin	17-Dec-2002	15-Mar-2003
031	0015	62101	1	Outdoor Temperature	Yellowstone National Park West Entrance	Gallatin	17-Dec-2002	15-Mar-2003
031	0015	88501	1	PM <sub>2.5</sub> Raw Data	Yellowstone National Park West Entrance	Gallatin	17-Dec-2002	15-Mar-2003
031	0016	42101	1	Carbon Monoxide	ALLEY	Gallatin	01-Jan-2007	
031	0016	68105	1	Ambient Temperature	ALLEY	Gallatin	01-Jan-2007	30-Jun-2008
031	0016	68108	1	Sample Baro Pressure	ALLEY	Gallatin	01-Jan-2007	30-Jun-2008
031	0016	88101	1	PM <sub>2.5</sub> - Local Conditions	ALLEY	Gallatin	01-Jan-2007	30-Jun-2008
031	0016	88101	3	PM <sub>2.5</sub> - Local Conditions	ALLEY	Gallatin	01-Jul-2008	
031	0016	88502	3	Accpt.PM25 AQI Spec.Mass	ALLEY	Gallatin	01-Jan-2007	30-Jun-2008
031	0017	42101	1	Carbon Monoxide	Yellowstone West Entrance	Gallatin	01-Aug-2008	
031	0017	88502	3	Accpt.PM25 AQI Spec.Mass	Yellowstone West Entrance	Gallatin	01-Aug-2008	
031	0018	68105	1	Ambient Temperature	LAGOON ROAD	Gallatin	11-Nov-2008	
031	0018	68108	1	Sample Baro Pressure	LAGOON ROAD	Gallatin	11-Nov-2008	
031	0018	88101	1	PM <sub>2.5</sub> - Local Conditions	LAGOON ROAD	Gallatin	11-Nov-2008	
031	0019	88502	3	Accpt.PM25 AQI Spec.Mass	408 North 15th Ave, Bozeman MT.	Gallatin	01-Feb-2009	
031	1001	11101	1	Suspended Particulate (Tsp)	W. GATE GARAGE,BOX 310,W. YELLOWSTONE	Gallatin	01-Jan-1972	31-Dec-1972
031	1001	11103	1	Benzene Sol.Organics(TSP)	W. GATE GARAGE,BOX 310,W. YELLOWSTONE	Gallatin	01-Jan-1972	31-Dec-1972
031	1003	11101	1	Suspended Particulate (Tsp)	KOBER RESIDENCE,611 2ND AVE,THREE FORKS	Gallatin	01-Jan-1977	31-Dec-1978
033	0002	11101	1	Suspended Particulate (Tsp)	RANDY BILLINGS RANCH, JORDAN	Garfield	01-Jan-1981	31-Dec-1984
035	0001	11101	3	Suspended Particulate (Tsp)	ST MARY RANGER STATION (BABB)	Glacier	01-Jan-1974	31-Dec-1978
035	0001	11101	1	Suspended Particulate (Tsp)	ST MARY RANGER STATION (BABB)	Glacier	01-Jan-1958	31-Dec-1973
035	0001	11103	1	Benzene Sol.Organics(TSP)	ST MARY RANGER STATION (BABB)	Glacier	01-Jan-1958	31-Dec-1970
035	0001	11302	1	Beta Radiation (Tsp)	ST MARY RANGER STATION (BABB)	Glacier	01-Jan-1958	31-Dec-1966
035	0001	12103	1	Arsenic (Tsp) Stp	ST MARY RANGER STATION (BABB)	Glacier	01-Jan-1977	31-Dec-1982

035	0001	12105	1	Beryllium (Tsp) Stp	ST MARY RANGER STATION (BABB)	Glacier	01-Jan-1977	31-Dec-1982
035	0001	12105	2	Beryllium (Tsp) Stp	ST MARY RANGER STATION (BABB)	Glacier	01-Jan-1965	31-Dec-1976
035	0001	12107	1	Barium (Tsp) Stp	ST MARY RANGER STATION (BABB)	Glacier	01-Jan-1977	31-Dec-1982
035	0001	12110	3	Cadmium (Tsp) Stp	ST MARY RANGER STATION (BABB)	Glacier	01-Jan-1968	31-Dec-1976
035	0001	12110	1	Cadmium (Tsp) Stp	ST MARY RANGER STATION (BABB)	Glacier	01-Jan-1977	31-Dec-1982
035	0001	12110	2	Cadmium (Tsp) Stp	ST MARY RANGER STATION (BABB)	Glacier	01-Jan-1965	31-Dec-1967
035	0001	12112	1	Chromium (Tsp) Stp	ST MARY RANGER STATION (BABB)	Glacier	01-Jan-1965	31-Dec-1976
035	0001	12112	2	Chromium (Tsp) Stp	ST MARY RANGER STATION (BABB)	Glacier	01-Jan-1977	31-Dec-1982
035	0001	12113	1	Cobalt (Tsp) Stp	ST MARY RANGER STATION (BABB)	Glacier	01-Jan-1965	31-Dec-1976
035	0001	12113	2	Cobalt (Tsp) Stp	ST MARY RANGER STATION (BABB)	Glacier	01-Jan-1977	31-Dec-1982
035	0001	12114	2	Copper (Tsp) Stp	ST MARY RANGER STATION (BABB)	Glacier	01-Jan-1965	31-Dec-1976
035	0001	12114	1	Copper (Tsp) Stp	ST MARY RANGER STATION (BABB)	Glacier	01-Jan-1977	31-Dec-1982
035	0001	12126	1	Iron (Tsp) Stp	ST MARY RANGER STATION (BABB)	Glacier	01-Jan-1977	31-Dec-1982
035	0001	12126	2	Iron (Tsp) Stp	ST MARY RANGER STATION (BABB)	Glacier	01-Jan-1965	31-Dec-1976
035	0001	12128	1	Lead (Tsp) Stp	ST MARY RANGER STATION (BABB)	Glacier	01-Jan-1975	31-Dec-1982
035	0001	12128	3	Lead (Tsp) Stp	ST MARY RANGER STATION (BABB)	Glacier	01-Jan-1965	31-Dec-1975
035	0001	12132	1	Manganese (Tsp) Stp	ST MARY RANGER STATION (BABB)	Glacier	01-Jan-1977	31-Dec-1982
035	0001	12132	2	Manganese (Tsp) Stp	ST MARY RANGER STATION (BABB)	Glacier	01-Jan-1965	31-Dec-1976
035	0001	12134	1	Molybdenum (Tsp) Stp	ST MARY RANGER STATION (BABB)	Glacier	01-Jan-1977	31-Dec-1982
035	0001	12136	2	Nickel (Tsp) Stp	ST MARY RANGER STATION (BABB)	Glacier	01-Jan-1965	31-Dec-1976
035	0001	12136	1	Nickel (Tsp) Stp	ST MARY RANGER STATION (BABB)	Glacier	01-Jan-1977	31-Dec-1982
035	0001	12160	1	Tin (Tsp) Stp	ST MARY RANGER STATION (BABB)	Glacier	01-Jan-1965	31-Dec-1972
035	0001	12161	1	Titanium (Tsp) Stp	ST MARY RANGER STATION (BABB)	Glacier	01-Jan-1965	31-Dec-1976
035	0001	12164	2	Vanadium (Tsp) Stp	ST MARY RANGER STATION (BABB)	Glacier	01-Jan-1965	31-Dec-1976
035	0001	12164	1	Vanadium (Tsp) Stp	ST MARY RANGER STATION (BABB)	Glacier	01-Jan-1977	31-Dec-1982
035	0001	12167	2	Zinc (Tsp) Stp	ST MARY RANGER STATION (BABB)	Glacier	01-Jan-1965	31-Dec-1967
035	0001	12167	1	Zinc (Tsp) Stp	ST MARY RANGER STATION (BABB)	Glacier	01-Jan-1977	31-Dec-1982
035	0001	12183	1	Yttrium (Tsp) Stp	ST MARY RANGER STATION (BABB)	Glacier	01-Jan-1968	31-Dec-1968
035	0001	12202	1	Fluoride (Tsp) Stp	ST MARY RANGER STATION (BABB)	Glacier	01-Jan-1966	31-Dec-1970
035	0001	12209	1	Fluoride (Paper Samplers)	ST MARY RANGER STATION (BABB)	Glacier	01-Jan-1966	31-Dec-1970
035	0001	12301	1	Ammonium (Tsp) Stp	ST MARY RANGER STATION (BABB)	Glacier	01-Jan-1965	31-Dec-1965
035	0001	12301	2	Ammonium (Tsp) Stp	ST MARY RANGER STATION (BABB)	Glacier	01-Jan-1966	31-Dec-1977
035	0001	12306	1	Nitrate (Tsp) Stp	ST MARY RANGER STATION (BABB)	Glacier	01-Jan-1962	31-Dec-1965

035	0001	12306	2	Nitrate (Tsp) Stp	ST MARY RANGER STATION (BABB)	Glacier	01-Jan-1966	31-Dec-1978
035	0001	12403	1	Sulfate (Tsp) Stp	ST MARY RANGER STATION (BABB)	Glacier	01-Jan-1966	31-Dec-1978
035	0001	12403	2	Sulfate (Tsp) Stp	ST MARY RANGER STATION (BABB)	Glacier	01-Jan-1962	31-Dec-1965
035	0001	17242	1	Benzo[A]Pyrene (Tsp) Stp	ST MARY RANGER STATION (BABB)	Glacier	01-Jan-1966	31-Dec-1970
035	0001	42401	1	Sulfur Dioxide	ST MARY RANGER STATION (BABB)	Glacier	01-Jan-1969	31-Dec-1973
035	0001	42401	2	Sulfur Dioxide	ST MARY RANGER STATION (BABB)	Glacier	01-Jan-1974	31-Dec-1977
035	0001	42602	1	Nitrogen Dioxide	ST MARY RANGER STATION (BABB)	Glacier	01-Jan-1973	31-Dec-1974
035	0001	42602	2	Nitrogen Dioxide	ST MARY RANGER STATION (BABB)	Glacier	01-Jan-1974	31-Dec-1978
035	0001	42602	3	Nitrogen Dioxide	ST MARY RANGER STATION (BABB)	Glacier	01-Jan-1974	01-Jul-1974
035	0007	11101	1	Suspended Particulate (Tsp)	FIRE WEATHER STATION	Glacier	01-Jan-1980	31-Dec-1985
035	0007	12110	1	Cadmium (Tsp) Stp	FIRE WEATHER STATION	Glacier	01-Jan-1980	31-Dec-1982
035	0007	12128	1	Lead (Tsp) Stp	FIRE WEATHER STATION	Glacier	01-Jan-1980	31-Dec-1982
035	0007	12209	2	Fluoride (Paper Samplers)	FIRE WEATHER STATION	Glacier	01-Jan-1980	31-Dec-1982
035	0007	12209	1	Fluoride (Paper Samplers)	FIRE WEATHER STATION	Glacier	01-Jan-1980	31-Dec-1983
035	0007	12306	1	Nitrate (Tsp) Stp	FIRE WEATHER STATION	Glacier	01-Jan-1980	31-Dec-1985
035	0007	12403	1	Sulfate (Tsp) Stp	FIRE WEATHER STATION	Glacier	01-Jan-1980	31-Dec-1985
035	0007	42410	1	Sulfation Rate	FIRE WEATHER STATION	Glacier	01-Jan-1982	31-Dec-1983
035	0010	11101	1	Suspended Particulate (Tsp)	ST. MARY RANGER STATION	Glacier	01-Jan-1982	31-Dec-1985
035	0010	12103	1	Arsenic (Tsp) Stp	ST. MARY RANGER STATION	Glacier	01-Jan-1983	31-Dec-1985
035	0010	12105	1	Beryllium (Tsp) Stp	ST. MARY RANGER STATION	Glacier	01-Jan-1983	31-Dec-1985
035	0010	12107	1	Barium (Tsp) Stp	ST. MARY RANGER STATION	Glacier	01-Jan-1983	31-Dec-1985
035	0010	12110	1	Cadmium (Tsp) Stp	ST. MARY RANGER STATION	Glacier	01-Jan-1983	31-Dec-1985
035	0010	12112	1	Chromium (Tsp) Stp	ST. MARY RANGER STATION	Glacier	01-Jan-1983	31-Dec-1985
035	0010	12113	1	Cobalt (Tsp) Stp	ST. MARY RANGER STATION	Glacier	01-Jan-1983	31-Dec-1985
035	0010	12114	1	Copper (Tsp) Stp	ST. MARY RANGER STATION	Glacier	01-Jan-1983	31-Dec-1985
035	0010	12126	1	Iron (Tsp) Stp	ST. MARY RANGER STATION	Glacier	01-Jan-1983	31-Dec-1985
035	0010	12128	1	Lead (Tsp) Stp	ST. MARY RANGER STATION	Glacier	01-Jan-1983	31-Dec-1985
035	0010	12132	1	Manganese (Tsp) Stp	ST. MARY RANGER STATION	Glacier	01-Jan-1983	31-Dec-1985
035	0010	12134	1	Molybdenum (Tsp) Stp	ST. MARY RANGER STATION	Glacier	01-Jan-1983	31-Dec-1985
035	0010	12136	1	Nickel (Tsp) Stp	ST. MARY RANGER STATION	Glacier	01-Jan-1983	31-Dec-1985
035	0010	12164	1	Vanadium (Tsp) Stp	ST. MARY RANGER STATION	Glacier	01-Jan-1983	31-Dec-1985
035	0010	12167	1	Zinc (Tsp) Stp	ST. MARY RANGER STATION	Glacier	01-Jan-1983	31-Dec-1985
035	0010	12209	1	Fluoride (Paper Samplers)	ST. MARY RANGER STATION	Glacier	01-Jan-1982	31-Dec-1983

035	0010	12209	2	Fluoride (Paper Samplers)	ST. MARY RANGER STATION	Glacier	01-Jan-1982	31-Dec-1982
035	0010	12306	1	Nitrate (Tsp) Stp	ST. MARY RANGER STATION	Glacier	01-Jan-1980	31-Dec-1985
035	0010	12403	1	Sulfate (Tsp) Stp	ST. MARY RANGER STATION	Glacier	01-Jan-1980	31-Dec-1985
035	0010	42410	1	Sulfation Rate	ST. MARY RANGER STATION	Glacier	01-Jan-1982	31-Dec-1983
035	0019	42410	1	Sulfation Rate	MANY GLACIER PARK ENTRANCE	Glacier	01-Jan-1982	31-Dec-1983
035	0020	42410	1	Sulfation Rate	TWO MEDICINE PARK ENTRANCE	Glacier	01-Jan-1982	31-Dec-1983
035	0021	21101	1	Total Dustfall (Sp)	HIGGINS DUSTFALL, 109 2ND ST NE, CUT BANK	Glacier	27-Mar-1992	01-Oct-1996
035	0021	25101	1	Dustfall Combustible (Sp)	HIGGINS DUSTFALL, 109 2ND ST NE, CUT BANK	Glacier	27-Mar-1992	01-Oct-1996
035	0101	61101	1	Wind Speed	BLACKFEET TRANSIT BLDG BLOCK 34, BROWNIN	Glacier	01-Jan-1994	04-Nov-1997
035	0101	61102	1	Wind Direction	BLACKFEET TRANSIT BLDG BLOCK 34, BROWNIN	Glacier	01-Jan-1994	04-Nov-1997
035	0101	62101	1	Outdoor Temperature	BLACKFEET TRANSIT BLDG BLOCK 34, BROWNIN	Glacier	01-Jan-1994	04-Nov-1997
035	0101	63301	1	Solar Radiation	BLACKFEET TRANSIT BLDG BLOCK 34, BROWNIN	Glacier	01-Jan-1994	01-Oct-1995
035	0101	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	BLACKFEET TRANSIT BLDG BLOCK 34, BROWNIN	Glacier	02-Jan-1994	31-Dec-2007
035	0101	85101	1	PM <sub>10</sub> - Lc	BLACKFEET TRANSIT BLDG BLOCK 34, BROWNIN	Glacier	01-Jan-1998	31-Dec-2007
035	0102	61101	1	Wind Speed	BLACKFEET INDUSTRIAL PARK, BROWNING MT	Glacier	02-Jan-1994	04-Nov-1997
035	0102	61102	1	Wind Direction	BLACKFEET INDUSTRIAL PARK, BROWNING MT	Glacier	02-Jan-1994	04-Nov-1997
035	0102	61106	1	Std Dev Hz Wind Direction	BLACKFEET INDUSTRIAL PARK, BROWNING MT	Glacier	02-Jan-1994	04-Nov-1997
035	0102	61202	1	Lapse Rate	BLACKFEET INDUSTRIAL PARK, BROWNING MT	Glacier	02-Jan-1994	01-Oct-1994
035	0102	62101	1	Outdoor Temperature	BLACKFEET INDUSTRIAL PARK, BROWNING MT	Glacier	02-Jan-1994	04-Nov-1997
035	0102	62106	1	Temperature Difference	BLACKFEET INDUSTRIAL PARK, BROWNING MT	Glacier	02-Jan-1994	01-Oct-1995
035	0102	63301	1	Solar Radiation	BLACKFEET INDUSTRIAL PARK, BROWNING MT	Glacier	02-Jan-1994	01-Oct-1995
035	0102	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	BLACKFEET INDUSTRIAL PARK, BROWNING MT	Glacier	02-Jan-1994	16-May-1997
035	0103	61101	1	Wind Speed	410 LINHOE ST.; EAST GLACIER, MT 59434	Glacier	01-Jan-1994	31-Dec-2004
035	0103	61102	1	Wind Direction	410 LINHOE ST.; EAST GLACIER, MT 59434	Glacier	01-Jan-1994	31-Dec-2004
035	0103	61106	1	Std Dev Hz Wind Direction	410 LINHOE ST.; EAST GLACIER, MT 59434	Glacier	01-Jan-1994	31-Dec-2004
035	0103	61202	1	Lapse Rate	410 LINHOE ST.; EAST GLACIER, MT 59434	Glacier	01-Jan-1994	01-Oct-1994
035	0103	62101	1	Outdoor Temperature	410 LINHOE ST.; EAST GLACIER, MT 59434	Glacier	01-Jan-1994	31-Dec-2004
035	0103	62106	1	Temperature Difference	410 LINHOE ST.; EAST GLACIER, MT 59434	Glacier	02-Jan-1994	01-Oct-1995
035	0103	63301	1	Solar Radiation	410 LINHOE ST.; EAST GLACIER, MT 59434	Glacier	01-Jan-1994	01-Oct-1995
035	0104	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	518 US HIGHWAY 2; EAST GLACIER, MT	Glacier	01-Apr-1995	31-Dec-2004
035	0104	85101	1	PM <sub>10</sub> - Lc	518 US HIGHWAY 2; EAST GLACIER, MT	Glacier	01-Jan-1998	31-Dec-2004
035	0105	61101	1	Wind Speed	BABB SCHOOL	Glacier	24-Feb-1998	31-Dec-2004
035	0105	61102	1	Wind Direction	BABB SCHOOL	Glacier	24-Feb-1998	31-Dec-2004

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035	0105	61106	1	Std Dev Hz Wind Direction	BABB SCHOOL	Glacier	24-Feb-1998	31-Dec-2004
035	0105	62101	1	Outdoor Temperature	BABB SCHOOL	Glacier	24-Feb-1998	31-Dec-2004
035	0105	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	BABB SCHOOL	Glacier	24-Feb-1998	31-Dec-2004
035	0105	85101	1	PM10 - Lc	BABB SCHOOL	Glacier	24-Feb-1998	31-Dec-2004
035	0106	61101	1	Wind Speed	ROUTE 1 HEART BUTTE ROAD, BROWNING	Glacier	01-Oct-2005	31-Dec-2007
035	0106	61102	1	Wind Direction	ROUTE 1 HEART BUTTE ROAD, BROWNING	Glacier	01-Oct-2005	31-Dec-2007
035	0106	61106	1	Std Dev Hz Wind Direction	ROUTE 1 HEART BUTTE ROAD, BROWNING	Glacier	01-Oct-2005	31-Dec-2007
035	0106	62101	1	Outdoor Temperature	ROUTE 1 HEART BUTTE ROAD, BROWNING	Glacier	01-Oct-2005	31-Dec-2007
039	0005	11101	1	Suspended Particulate (Tsp)	MCKINLEY RES (PHILLIPSBURG)	Granite	01-Jan-1972	31-Dec-1980
039	0005	11103	1	Benzene Sol.Organics(TSP)	MCKINLEY RES (PHILLIPSBURG)	Granite	01-Jan-1972	31-Dec-1972
041	0001	11101	1	Suspended Particulate (Tsp)	CITY BUILDING, 520 4TH ST	Hill	01-Jan-1980	31-Dec-1983
043	0004	11101	1	Suspended Particulate (Tsp)	KLEFFNER RESIDENCE STATION #4	Jefferson	01-Jan-1971	31-Dec-1971
043	0004	12103	1	Arsenic (Tsp) Stp	KLEFFNER RESIDENCE STATION #4	Jefferson	01-Jan-1971	31-Dec-1971
043	0004	12110	1	Cadmium (Tsp) Stp	KLEFFNER RESIDENCE STATION #4	Jefferson	01-Jan-1971	31-Dec-1971
043	0004	12128	1	Lead (Tsp) Stp	KLEFFNER RESIDENCE STATION #4	Jefferson	01-Jan-1971	31-Dec-1971
043	0004	12167	1	Zinc (Tsp) Stp	KLEFFNER RESIDENCE STATION #4	Jefferson	01-Jan-1971	31-Dec-1971
043	0007	42401	1	Sulfur Dioxide	MCCLELLAN CREEK ROAD SE OF EAST HELENA	Jefferson	01-Jan-1972	31-Dec-1975
043	0010	11101	1	Suspended Particulate (Tsp)	GOLDEN SUNLIGHT-DOWNWIND 2000, WHITEHALL	Jefferson	01-Aug-1981	13-Aug-1987
043	0010	11101	2	Suspended Particulate (Tsp)	GOLDEN SUNLIGHT-DOWNWIND 2000, WHITEHALL	Jefferson	01-Aug-1981	13-Aug-1987
043	0011	11101	1	Suspended Particulate (Tsp)	GOLDEN SUNLIGHT #1(1000),3 MI NE WHTHALL	Jefferson	01-Aug-1981	25-Sep-1990
043	0011	12103	1	Arsenic (Tsp) Stp	GOLDEN SUNLIGHT #1(1000),3 MI NE WHTHALL	Jefferson	04-Jul-1990	25-Sep-1990
043	0011	12110	1	Cadmium (Tsp) Stp	GOLDEN SUNLIGHT #1(1000),3 MI NE WHTHALL	Jefferson	04-Jul-1990	25-Sep-1990
043	0011	12112	1	Chromium (Tsp) Stp	GOLDEN SUNLIGHT #1(1000),3 MI NE WHTHALL	Jefferson	04-Jul-1990	25-Sep-1990
043	0011	12128	1	Lead (Tsp) Stp	GOLDEN SUNLIGHT #1(1000),3 MI NE WHTHALL	Jefferson	04-Jul-1990	25-Sep-1990
043	0011	12167	1	Zinc (Tsp) Stp	GOLDEN SUNLIGHT #1(1000),3 MI NE WHTHALL	Jefferson	04-Jul-1990	25-Sep-1990
043	0011	61101	1	Wind Speed	GOLDEN SUNLIGHT #1(1000),3 MI NE WHTHALL	Jefferson	01-Jan-1984	31-Mar-1992
043	0011	61102	1	Wind Direction	GOLDEN SUNLIGHT #1(1000),3 MI NE WHTHALL	Jefferson	01-Jan-1984	31-Mar-1992
043	0011	61106	1	Std Dev Hz Wind Direction	GOLDEN SUNLIGHT #1(1000),3 MI NE WHTHALL	Jefferson	01-Oct-1990	31-Mar-1992
043	0011	62101	1	Outdoor Temperature	GOLDEN SUNLIGHT #1(1000),3 MI NE WHTHALL	Jefferson	01-Jan-1983	31-Mar-1992
043	0011	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	GOLDEN SUNLIGHT #1(1000),3 MI NE WHTHALL	Jefferson	26-Sep-1990	31-Dec-1997
043	0011	82103	1	Arsenic PM <sub>10</sub> Stp	GOLDEN SUNLIGHT #1(1000),3 MI NE WHTHALL	Jefferson	26-Sep-1990	31-Dec-1991
043	0011	82110	1	Cadmium PM <sub>10</sub> Stp	GOLDEN SUNLIGHT #1(1000),3 MI NE WHTHALL	Jefferson	26-Sep-1990	31-Dec-1991
043	0011	82112	1	Chromium PM <sub>10</sub> Stp	GOLDEN SUNLIGHT #1(1000),3 MI NE WHTHALL	Jefferson	26-Sep-1990	31-Dec-1991

043	0011	82128	1 Lead PM <sub>10</sub> Stp	GOLDEN SUNLIGHT #1(1000),3 MI NE WHTHALL	Jefferson	26-Sep-1990	31-Dec-1991
043	0011	82167	1 Zinc PM <sub>10</sub> Stp	GOLDEN SUNLIGHT #1(1000),3 MI NE WHTHALL	Jefferson	26-Sep-1990	31-Dec-1991
043	0011	85101	1 PM <sub>10</sub> - Lc	GOLDEN SUNLIGHT #1(1000),3 MI NE WHTHALL	Jefferson	01-Jan-1998	01-Apr-2001
043	0012	11101	2 Suspended Particulate (Tsp)	GOLDEN SUNLIGHT #2(4000) 3 MI NE WHTHALL	Jefferson	01-Jan-1983	01-Sep-1990
043	0012	11101	1 Suspended Particulate (Tsp)	GOLDEN SUNLIGHT #2(4000) 3 MI NE WHTHALL	Jefferson	01-Oct-1987	01-Sep-1990
043	0012	12103	1 Arsenic (Tsp) Stp	GOLDEN SUNLIGHT #2(4000) 3 MI NE WHTHALL	Jefferson	04-Jul-1990	31-Dec-1990
043	0012	12110	1 Cadmium (Tsp) Stp	GOLDEN SUNLIGHT #2(4000) 3 MI NE WHTHALL	Jefferson	04-Jul-1990	31-Dec-1990
043	0012	12112	1 Chromium (Tsp) Stp	GOLDEN SUNLIGHT #2(4000) 3 MI NE WHTHALL	Jefferson	04-Jul-1990	31-Dec-1990
043	0012	12128	1 Lead (Tsp) Stp	GOLDEN SUNLIGHT #2(4000) 3 MI NE WHTHALL	Jefferson	04-Jul-1990	31-Dec-1990
043	0012	12167	1 Zinc (Tsp) Stp	GOLDEN SUNLIGHT #2(4000) 3 MI NE WHTHALL	Jefferson	04-Jul-1990	31-Dec-1990
043	0012	81102	1 PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	GOLDEN SUNLIGHT #2(4000) 3 MI NE WHTHALL	Jefferson	01-Sep-1990	31-Dec-1997
043	0012	82103	1 Arsenic PM <sub>10</sub> Stp	GOLDEN SUNLIGHT #2(4000) 3 MI NE WHTHALL	Jefferson	04-Jul-1990	31-Dec-1991
043	0012	82110	1 Cadmium PM₁₀ Stp	GOLDEN SUNLIGHT #2(4000) 3 MI NE WHTHALL	Jefferson	04-Jul-1990	31-Dec-1991
043	0012	82112	1 Chromium PM <sub>10</sub> Stp	GOLDEN SUNLIGHT #2(4000) 3 MI NE WHTHALL	Jefferson	04-Jul-1990	31-Dec-1991
043	0012	82128	1 Lead PM <sub>10</sub> Stp	GOLDEN SUNLIGHT #2(4000) 3 MI NE WHTHALL	Jefferson	04-Jul-1990	31-Dec-1991
043	0012	82167	1 Zinc PM <sub>10</sub> Stp	GOLDEN SUNLIGHT #2(4000) 3 MI NE WHTHALL	Jefferson	04-Jul-1990	31-Dec-1991
043	0012	85101	1 PM <sub>10</sub> - Lc	GOLDEN SUNLIGHT #2(4000) 3 MI NE WHTHALL	Jefferson	01-Jan-1998	01-Apr-2001
043	0013	11101	1 Suspended Particulate (Tsp)	CORBIN #1, CORBIN, MT	Jefferson	01-Jan-1984	31-Dec-1984
043	0014	11101	1 Suspended Particulate (Tsp)	CORBIN #2, CORBIN, MT	Jefferson	01-Jan-1984	31-Dec-1984
043	0015	11101	1 Suspended Particulate (Tsp)	CORBIN #3, CORBIN, MT	Jefferson	01-Jan-1984	31-Dec-1984
043	0015	61101	1 Wind Speed	CORBIN #3, CORBIN, MT	Jefferson	01-Jan-1984	31-Dec-1984
043	0015	61102	1 Wind Direction	CORBIN #3, CORBIN, MT	Jefferson	01-Jan-1984	31-Dec-1984
043	0017	61101	1 Wind Speed	WICKES - 2.5 MI NW	Jefferson	01-Jan-1984	31-Dec-1984
043	0017	61102	1 Wind Direction	WICKES - 2.5 MI NW	Jefferson	01-Jan-1984	31-Dec-1984
043	0019	11101	1 Suspended Particulate (Tsp)	MONTANA TUNNELS-RANCH SITE #1A	Jefferson	25-Feb-1986	31-Dec-1987
043	0019	81102	3 PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	MONTANA TUNNELS-RANCH SITE #1A	Jefferson	05-Jul-2007	
043	0019	81102	2 PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	MONTANA TUNNELS-RANCH SITE #1A	Jefferson	01-Dec-1987	31-Dec-1991
043	0019	81102	1 PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	MONTANA TUNNELS-RANCH SITE #1A	Jefferson	01-Dec-1987	31-Dec-1997
043	0019	82103	1 Arsenic PM <sub>10</sub> Stp	MONTANA TUNNELS-RANCH SITE #1A	Jefferson	04-Jan-1988	31-Dec-1991
043	0019	82128	1 Lead PM <sub>10</sub> Stp	MONTANA TUNNELS-RANCH SITE #1A	Jefferson	04-Jan-1988	31-Dec-1991
043	0019	85101	1 PM <sub>10</sub> - Lc	MONTANA TUNNELS-RANCH SITE #1A	Jefferson	01-Jan-1998	
043	0020	11101	1 Suspended Particulate (Tsp)	MONTANA TUNNELS-WICKES FLAT #2	Jefferson	25-Feb-1986	31-May-1992
043	0020	12103	1 Arsenic (Tsp) Stp	MONTANA TUNNELS-WICKES FLAT #2	Jefferson	04-Jan-1989	31-Dec-1991

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043	0020	12128	1	Lead (Tsp) Stp	MONTANA TUNNELS-WICKES FLAT #2	Jefferson	04-Jan-1989	31-Dec-1991
043	0020	61101	1	Wind Speed	MONTANA TUNNELS-WICKES FLAT #2	Jefferson	01-Mar-1986	31-Mar-1992
043	0020	61102	1	Wind Direction	MONTANA TUNNELS-WICKES FLAT #2	Jefferson	01-Mar-1986	31-Mar-1992
043	0020	61106	1	Std Dev Hz Wind Direction	MONTANA TUNNELS-WICKES FLAT #2	Jefferson	01-Apr-1990	31-Mar-1992
043	0020	62101	1	Outdoor Temperature	MONTANA TUNNELS-WICKES FLAT #2	Jefferson	01-Apr-1990	31-Mar-1992
043	0020	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	MONTANA TUNNELS-WICKES FLAT #2	Jefferson	01-Mar-1986	31-Dec-1997
043	0020	85101	1	PM10 - Lc	MONTANA TUNNELS-WICKES FLAT #2	Jefferson	01-Jan-1998	15-Jul-1999
043	0021	11101	1	Suspended Particulate (Tsp)	MONTANA TUNNELS-MINA MINE #3	Jefferson	01-Mar-1986	23-Mar-1989
043	0022	11101	1	Suspended Particulate (Tsp)	MONTANA TUNNELS-CLANCY CREEK #4	Jefferson	01-Mar-1986	06-May-1992
043	0022	12103	1	Arsenic (Tsp) Stp	MONTANA TUNNELS-CLANCY CREEK #4	Jefferson	04-Jan-1989	31-Dec-1991
043	0022	12128	1	Lead (Tsp) Stp	MONTANA TUNNELS-CLANCY CREEK #4	Jefferson	04-Jan-1989	31-Dec-1991
043	0022	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	MONTANA TUNNELS-CLANCY CREEK #4	Jefferson	09-May-1992	31-Dec-1997
043	0022	81102	2	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	MONTANA TUNNELS-CLANCY CREEK #4	Jefferson	05-Jul-2007	
043	0022	85101	1	PM <sub>10</sub> - Lc	MONTANA TUNNELS-CLANCY CREEK #4	Jefferson	01-Jan-1998	
043	0023	11101	1	Suspended Particulate (Tsp)	MONTANA TUNNELS-TAILINGS DAM #5	Jefferson	09-Feb-1988	06-May-1992
043	0023	12103	1	Arsenic (Tsp) Stp	MONTANA TUNNELS-TAILINGS DAM #5	Jefferson	04-Jan-1989	31-Dec-1991
043	0023	12128	1	Lead (Tsp) Stp	MONTANA TUNNELS-TAILINGS DAM #5	Jefferson	04-Jan-1989	31-Dec-1991
043	0023	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	MONTANA TUNNELS-TAILINGS DAM #5	Jefferson	09-May-1992	31-Mar-1993
043	0024	61101	1	Wind Speed	GOLD FIELDS MINING-BOULDER FLATS #1	Jefferson	02-Nov-1989	31-Dec-1991
043	0024	61102	1	Wind Direction	GOLD FIELDS MINING-BOULDER FLATS #1	Jefferson	02-Nov-1989	31-Dec-1991
043	0024	61106	1	Std Dev Hz Wind Direction	GOLD FIELDS MINING-BOULDER FLATS #1	Jefferson	02-Nov-1989	31-Dec-1991
043	0024	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	GOLD FIELDS MINING-BOULDER FLATS #1	Jefferson	17-Nov-1989	31-Dec-1991
043	0024	82103	1	Arsenic PM <sub>10</sub> Stp	GOLD FIELDS MINING-BOULDER FLATS #1	Jefferson	18-Nov-1989	31-Dec-1990
043	0024	82110	1	Cadmium PM <sub>10</sub> Stp	GOLD FIELDS MINING-BOULDER FLATS #1	Jefferson	18-Nov-1989	31-Dec-1990
043	0024	82112	1	Chromium PM <sub>10</sub> Stp	GOLD FIELDS MINING-BOULDER FLATS #1	Jefferson	18-Nov-1989	31-Dec-1990
043	0024	82128	1	Lead PM <sub>10</sub> Stp	GOLD FIELDS MINING-BOULDER FLATS #1	Jefferson	18-Nov-1989	31-Dec-1990
043	0024	82167	1	Zinc PM <sub>10</sub> Stp	GOLD FIELDS MINING-BOULDER FLATS #1	Jefferson	18-Nov-1989	31-Dec-1990
043	0025	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	GOLD FIELDS MINING-ELKHORN SITE #2	Jefferson	17-Nov-1989	31-Dec-1991
043	0025	82103	1	Arsenic PM <sub>10</sub> Stp	GOLD FIELDS MINING-ELKHORN SITE #2	Jefferson	18-Nov-1989	31-Dec-1990
043	0025	82110	1	Cadmium PM <sub>10</sub> Stp	GOLD FIELDS MINING-ELKHORN SITE #2	Jefferson	18-Nov-1989	31-Dec-1990
043	0025	82112	1	Chromium PM <sub>10</sub> Stp	GOLD FIELDS MINING-ELKHORN SITE #2	Jefferson	18-Nov-1989	31-Dec-1990
043	0025	82128	1	Lead PM <sub>10</sub> Stp	GOLD FIELDS MINING-ELKHORN SITE #2	Jefferson	18-Nov-1989	31-Dec-1990
043	0025	82167	1	Zinc PM <sub>10</sub> Stp	GOLD FIELDS MINING-ELKHORN SITE #2	Jefferson	18-Nov-1989	31-Dec-1990

043	0026	61101	1	Wind Speed	GOLD FIELDS MINING-HEAGEN MINE #3	Jefferson	03-Nov-1989	31-Dec-1991
043	0026	61102	1	Wind Direction	GOLD FIELDS MINING-HEAGEN MINE #3	Jefferson	03-Nov-1989	31-Dec-1991
043	0026	61106	1	Std Dev Hz Wind Direction	GOLD FIELDS MINING-HEAGEN MINE #3	Jefferson	03-Nov-1989	31-Dec-1991
043	0026	62101	1	Outdoor Temperature	GOLD FIELDS MINING-HEAGEN MINE #3	Jefferson	03-Nov-1989	31-Dec-1991
043	0026	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	GOLD FIELDS MINING-HEAGEN MINE #3	Jefferson	17-Nov-1989	31-Dec-1991
043	0026	82103	1	Arsenic PM <sub>10</sub> Stp	GOLD FIELDS MINING-HEAGEN MINE #3	Jefferson	06-Dec-1989	31-Dec-1990
043	0026	82110	1	Cadmium PM <sub>10</sub> Stp	GOLD FIELDS MINING-HEAGEN MINE #3	Jefferson	06-Dec-1989	31-Dec-1990
043	0026	82112	1	Chromium PM <sub>10</sub> Stp	GOLD FIELDS MINING-HEAGEN MINE #3	Jefferson	06-Dec-1989	31-Dec-1990
043	0026	82128	1	Lead PM <sub>10</sub> Stp	GOLD FIELDS MINING-HEAGEN MINE #3	Jefferson	06-Dec-1989	31-Dec-1990
043	0026	82167	1	Zinc PM <sub>10</sub> Stp	GOLD FIELDS MINING-HEAGEN MINE #3	Jefferson	06-Dec-1989	31-Dec-1990
043	0709	61101	1	Wind Speed	PEGASUS GOLD-BASIN CR MINE, UPWIND #1	Jefferson	05-Apr-1987	31-Dec-1990
043	0709	61102	1	Wind Direction	PEGASUS GOLD-BASIN CR MINE, UPWIND #1	Jefferson	05-Apr-1987	31-Dec-1990
043	0709	61106	1	Std Dev Hz Wind Direction	PEGASUS GOLD-BASIN CR MINE, UPWIND #1	Jefferson	17-Aug-1989	31-Dec-1990
043	0709	62101	1	Outdoor Temperature	PEGASUS GOLD-BASIN CR MINE, UPWIND #1	Jefferson	01-Jan-1989	31-Dec-1990
043	0709	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	PEGASUS GOLD-BASIN CR MINE, UPWIND #1	Jefferson	12-Aug-1988	17-Jan-1990
043	0710	11101	1	Suspended Particulate (Tsp)	PEGASUS GOLD-BASIN CR MINE, DOWNWIND #2	Jefferson	12-Aug-1988	26-Jul-1989
043	0710	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	PEGASUS GOLD-BASIN CR MINE, DOWNWIND #2	Jefferson	01-Aug-1988	30-Dec-1989
043	0711	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	PEGASUS GOLD-BASIN CR,UPWIND #3,RIMINI	Jefferson	16-Feb-1990	31-Dec-1997
043	0711	85101	1	PM10 - Lc	PEGASUS GOLD-BASIN CR,UPWIND #3,RIMINI	Jefferson	01-Jan-1998	01-Nov-1998
043	0902	42401	2	Sulfur Dioxide	SADDLE MOUNTAIN	Jefferson	01-Jan-1973	31-Dec-1975
043	0902	42401	1	Sulfur Dioxide	SADDLE MOUNTAIN	Jefferson	01-Jan-1973	31-Dec-1974
043	0902	42401	3	Sulfur Dioxide	SADDLE MOUNTAIN	Jefferson	01-Jan-1974	31-Dec-1977
043	0903	11101	1	Suspended Particulate (Tsp)	MICROWAVE SITE	Jefferson	01-Jan-1974	31-Dec-1991
043	0903	12101	1	Aluminum (Tsp) Stp	MICROWAVE SITE	Jefferson	01-Jan-1978	31-Dec-1979
043	0903	12103	1	Arsenic (Tsp) Stp	MICROWAVE SITE	Jefferson	01-Jan-1978	31-Dec-1979
043	0903	12110	1	Cadmium (Tsp) Stp	MICROWAVE SITE	Jefferson	01-Jan-1978	31-Dec-1979
043	0903	12112	1	Chromium (Tsp) Stp	MICROWAVE SITE	Jefferson	01-Jan-1978	31-Dec-1979
043	0903	12114	1	Copper (Tsp) Stp	MICROWAVE SITE	Jefferson	01-Jan-1978	31-Dec-1979
043	0903	12126	1	Iron (Tsp) Stp	MICROWAVE SITE	Jefferson	01-Jan-1978	31-Dec-1979
043	0903	12128	1	Lead (Tsp) Stp	MICROWAVE SITE	Jefferson	01-Jan-1977	31-Dec-1991
043	0903	12132	1	Manganese (Tsp) Stp	MICROWAVE SITE	Jefferson	01-Jan-1978	31-Dec-1979
043	0903	12136	1	Nickel (Tsp) Stp	MICROWAVE SITE	Jefferson	01-Jan-1978	31-Dec-1979
043	0903	12164	1	Vanadium (Tsp) Stp	MICROWAVE SITE	Jefferson	01-Jan-1978	31-Dec-1979

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043	0903	12167	1	Zinc (Tsp) Stp	MICROWAVE SITE	Jefferson	01-Jan-1978	31-Dec-1979
043	0903	12306	1	Nitrate (Tsp) Stp	MICROWAVE SITE	Jefferson	01-Jan-1977	31-Dec-1977
043	0903	12306	2	Nitrate (Tsp) Stp	MICROWAVE SITE	Jefferson	01-Jan-1978	31-Dec-1979
043	0903	12403	1	Sulfate (Tsp) Stp	MICROWAVE SITE	Jefferson	01-Jan-1977	31-Dec-1979
043	0903	42401	4	Sulfur Dioxide	MICROWAVE SITE	Jefferson	01-May-1976	31-May-2001
043	0903	42401	1	Sulfur Dioxide	MICROWAVE SITE	Jefferson	01-Jan-1973	01-Jul-1974
043	0903	42401	2	Sulfur Dioxide	MICROWAVE SITE	Jefferson	01-Jan-1973	31-Dec-1979
043	0903	42401	3	Sulfur Dioxide	MICROWAVE SITE	Jefferson	01-Jan-1974	31-Dec-1979
043	0903	42410	1	Sulfation Rate	MICROWAVE SITE	Jefferson	01-Jan-1978	31-Dec-1981
043	0903	61101	1	Wind Speed	MICROWAVE SITE	Jefferson	01-Jan-1978	31-Dec-1979
043	0903	61102	1	Wind Direction	MICROWAVE SITE	Jefferson	01-Jan-1978	31-Dec-1979
043	0904	42401	1	Sulfur Dioxide	BROUDY RANCH, MONTANA CITY, MT	Jefferson	01-Jan-1977	31-Dec-1981
043	0904	42410	1	Sulfation Rate	BROUDY RANCH, MONTANA CITY, MT	Jefferson	01-Jan-1978	31-Dec-1981
043	0905	11101	1	Suspended Particulate (Tsp)	MONTANA CITY SCHOOL	Jefferson	01-Jan-1981	31-Dec-1989
043	0905	12128	1	Lead (Tsp) Stp	MONTANA CITY SCHOOL	Jefferson	01-Jan-1981	31-Dec-1985
043	0906	42401	1	Sulfur Dioxide	ASARCO-HIGHWAY 518, EAST HELENA	Jefferson	01-Dec-1986	31-Dec-1989
043	0906	61101	1	Wind Speed	ASARCO-HIGHWAY 518, EAST HELENA	Jefferson	01-Jan-1988	31-Dec-1988
043	0906	61102	1	Wind Direction	ASARCO-HIGHWAY 518, EAST HELENA	Jefferson	01-Jan-1988	31-Dec-1988
043	0907	42401	1	Sulfur Dioxide	ASARCO-ADAMS RANCH, BEHIND ASH GROVE	Jefferson	01-Jan-1986	31-Dec-1988
043	0907	61101	1	Wind Speed	ASARCO-ADAMS RANCH, BEHIND ASH GROVE	Jefferson	01-Jan-1986	31-Dec-1988
043	0907	61102	1	Wind Direction	ASARCO-ADAMS RANCH, BEHIND ASH GROVE	Jefferson	01-Jan-1986	31-Dec-1988
043	0908	42401	1	Sulfur Dioxide	ASARCO-ASH GROVE SIDING, MONTANA CITY	Jefferson	05-Sep-1989	30-Jun-1997
043	0909	42401	1	Sulfur Dioxide	ASARCO-TOP OF MICROWAVE HILL, E. HELENA	Jefferson	01-Apr-1993	30-Jun-1997
043	0909	61101	1	Wind Speed	ASARCO-TOP OF MICROWAVE HILL, E. HELENA	Jefferson	01-Apr-1993	30-Jun-1997
043	0909	61102	1	Wind Direction	ASARCO-TOP OF MICROWAVE HILL, E. HELENA	Jefferson	01-Apr-1993	30-Jun-1997
043	0909	61102	2	Wind Direction	ASARCO-TOP OF MICROWAVE HILL, E. HELENA	Jefferson	01-Apr-1993	31-Dec-1994
043	0909	61103	1	Resultant Speed	ASARCO-TOP OF MICROWAVE HILL, E. HELENA	Jefferson	01-Apr-1993	01-Jan-1996
043	0909	61104	1	Resultant Direction	ASARCO-TOP OF MICROWAVE HILL, E. HELENA	Jefferson	01-Apr-1993	01-Jan-1996
043	0909	61106	1	Std Dev Hz Wind Direction	ASARCO-TOP OF MICROWAVE HILL, E. HELENA	Jefferson	01-Apr-1993	30-Jun-1997
043	0909	61109	1	Vertical Wind Speed	ASARCO-TOP OF MICROWAVE HILL, E. HELENA	Jefferson	01-Apr-1993	31-Dec-1994
043	0909	61110	1	Std Dev Vt Wind Speed	ASARCO-TOP OF MICROWAVE HILL, E. HELENA	Jefferson	01-Apr-1993	31-Dec-1994
043	0909	62101	1	Outdoor Temperature	ASARCO-TOP OF MICROWAVE HILL, E. HELENA	Jefferson	01-Apr-1993	30-Jun-1997
043	0910	42401	1	Sulfur Dioxide	ASARCO-MCCLELLAN CREEK RD #3, E. HELENA	Jefferson	01-Apr-1993	30-Jun-1997

043	0911	42401	1 Sulfur Dioxide	ASARCO-MCCLELLAN CREEK RD #4, E. HELENA	Jefferson	01-Apr-1993	31-May-2001
043	0911	61101	1 Wind Speed	ASARCO-MCCLELLAN CREEK RD #4, E. HELENA	Jefferson	19-Sep-1997	31-May-2001
043	0911	61102	1 Wind Direction	ASARCO-MCCLELLAN CREEK RD #4, E. HELENA	Jefferson	19-Sep-1997	31-May-2001
043	0911	61106	1 Std Dev Hz Wind Direction	ASARCO-MCCLELLAN CREEK RD #4, E. HELENA	Jefferson	19-Sep-1997	31-May-2001
043	0911	62101	1 Outdoor Temperature	ASARCO-MCCLELLAN CREEK RD #4, E. HELENA	Jefferson	19-Sep-1997	31-May-2001
043	0912	42401	1 Sulfur Dioxide	ASARCO-MCCLELLAN CREEK RD #5, E. HELENA	Jefferson	01-Apr-1993	30-Jun-1997
043	0912	61101	1 Wind Speed	ASARCO-MCCLELLAN CREEK RD #5, E. HELENA	Jefferson	01-Apr-1993	30-Jun-1997
043	0912	61102	1 Wind Direction	ASARCO-MCCLELLAN CREEK RD #5, E. HELENA	Jefferson	01-Apr-1993	30-Jun-1997
043	0912	61102	2 Wind Direction	ASARCO-MCCLELLAN CREEK RD #5, E. HELENA	Jefferson	01-Apr-1993	31-Dec-1994
043	0912	61103	1 Resultant Speed	ASARCO-MCCLELLAN CREEK RD #5, E. HELENA	Jefferson	01-Apr-1993	01-Jan-1996
043	0912	61104	1 Resultant Direction	ASARCO-MCCLELLAN CREEK RD #5, E. HELENA	Jefferson	01-Apr-1993	01-Jan-1996
043	0912	61106	1 Std Dev Hz Wind Direction	ASARCO-MCCLELLAN CREEK RD #5, E. HELENA	Jefferson	01-Apr-1993	30-Jun-1997
043	0912	61109	1 Vertical Wind Speed	ASARCO-MCCLELLAN CREEK RD #5, E. HELENA	Jefferson	01-Apr-1993	31-Dec-1994
043	0912	61110	1 Std Dev Vt Wind Speed	ASARCO-MCCLELLAN CREEK RD #5, E. HELENA	Jefferson	01-Apr-1993	31-Dec-1994
043	0912	62101	1 Outdoor Temperature	ASARCO-MCCLELLAN CREEK RD #5, E. HELENA	Jefferson	01-Apr-1993	30-Jun-1997
043	0913	42401	1 Sulfur Dioxide	ASARCO-MCCLELLAN CREEK RD #6, E. HELENA	Jefferson	01-Apr-1993	31-May-2001
043	0914	42401	1 Sulfur Dioxide	ASARCO-MCCLELLAN CREEK RD #7, E. HELENA	Jefferson	01-Apr-1993	30-Jun-1997
043	0915	42401	1 Sulfur Dioxide	ASARCO-MCCLELLAN CREEK RD #8, E. HELENA	Jefferson	01-Apr-1993	30-Jun-1997
043	0916	42401	1 Sulfur Dioxide	ASARCO-MCCLELLAN CREEK RD #9, E. HELENA	Jefferson	01-Apr-1993	30-Jun-1997
047	0007	11101	1 Suspended Particulate (Tsp)	JH HANSON RESIDENCE NEAR POLSON	Lake	01-Jan-1973	31-Dec-1973
047	0008	11101	1 Suspended Particulate (Tsp)	ANKOR RASMUSSEN RESIDENCE	Lake	01-Jan-1973	31-Dec-1973
047	0010	11101	1 Suspended Particulate (Tsp)	MARY LOZAR RESIDENCE, E OF POLSON, MT	Lake	01-Jan-1979	31-Dec-1983
047	0010	12306	1 Nitrate (Tsp) Stp	MARY LOZAR RESIDENCE, E OF POLSON, MT	Lake	01-Jan-1979	31-Dec-1983
047	0010	12403	1 Sulfate (Tsp) Stp	MARY LOZAR RESIDENCE, E OF POLSON, MT	Lake	01-Jan-1979	31-Dec-1983
047	0010	61101	1 Wind Speed	MARY LOZAR RESIDENCE, E OF POLSON, MT	Lake	01-Jan-1980	31-Dec-1983
047	0010	61102	1 Wind Direction	MARY LOZAR RESIDENCE, E OF POLSON, MT	Lake	01-Jan-1980	31-Dec-1983
047	0010	62101	1 Outdoor Temperature	MARY LOZAR RESIDENCE, E OF POLSON, MT	Lake	01-Jan-1980	31-Dec-1983
047	0011	11101	1 Suspended Particulate (Tsp)	RONAN, MT	Lake	01-Jan-1978	31-Dec-1981
047	0011	12306	1 Nitrate (Tsp) Stp	RONAN, MT	Lake	01-Jan-1979	31-Dec-1980
047	0011	12403	1 Sulfate (Tsp) Stp	RONAN, MT	Lake	01-Jan-1979	31-Dec-1980
047	0012	11101	1 Suspended Particulate (Tsp)	RONAN-NINEPIPE	Lake	01-Jan-1980	31-Dec-1983
047	0012	11203	1 Light Scatter	RONAN-NINEPIPE	Lake	01-Jan-1981	31-Dec-1983
047	0012	12306	1 Nitrate (Tsp) Stp	RONAN-NINEPIPE	Lake	01-Jan-1980	31-Dec-1983

047	0012	12403	1 Sulfate (Tsp) Stp	RONAN-NINEPIPE	Lake	01-Jan-1980	31-Dec-1983
047	0012	61101	1 Wind Speed	RONAN-NINEPIPE	Lake	01-Jan-1980	31-Dec-1983
047	0012	61102	1 Wind Direction	RONAN-NINEPIPE	Lake	01-Jan-1980	31-Dec-1983
047	0013	11101	1 Suspended Particulate (Tsp)	RONAN PARK	Lake	01-Jan-1981	31-Dec-1989
047	0013	11101	2 Suspended Particulate (Tsp)	RONAN PARK	Lake	01-Jan-1984	31-Dec-1988
047	0013	61101	1 Wind Speed	RONAN PARK	Lake	01-Jan-1991	14-Nov-1998
047	0013	61102	1 Wind Direction	RONAN PARK	Lake	01-Jan-1991	14-Nov-1998
047	0013	61106	1 Std Dev Hz Wind Direction	RONAN PARK	Lake	01-Jan-1991	14-Nov-1998
047	0013	61120	1 Atmospheric Stability	RONAN PARK	Lake	01-Apr-1995	14-Nov-1998
047	0013	68101	1 Sample Flow Rate- Cv	RONAN PARK	Lake	01-Jan-2000	31-Dec-2005
047	0013	68102	1 Sample Volume	RONAN PARK	Lake	01-Jan-2000	31-Dec-2005
047	0013	68103	1 Ambient Min Temperature	RONAN PARK	Lake	01-Jan-2000	31-Dec-2005
047	0013	68104	1 Ambient Max Temperature	RONAN PARK	Lake	01-Jan-2000	31-Dec-2005
047	0013	68105	1 Ambient Temperature	RONAN PARK	Lake	01-Jan-2000	31-Dec-2005
047	0013	68106	1 Sample Min Baro Pressure	RONAN PARK	Lake	01-Jan-2000	31-Dec-2005
047	0013	68107	1 Sample Max Baro Pressure	RONAN PARK	Lake	01-Jan-2000	31-Dec-2005
047	0013	68108	1 Sample Baro Pressure	RONAN PARK	Lake	01-Jan-2000	31-Dec-2005
047	0013	68109	1 Elapsed Sample Time	RONAN PARK	Lake	01-Jan-2000	31-Dec-2005
047	0013	81101	1 Size Fractionated Particulate	RONAN PARK	Lake	01-Jan-1981	31-Dec-1983
047	0013	81102	1 PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	RONAN PARK	Lake	01-Aug-1988	
047	0013	85101	1 PM <sub>10</sub> - Lc	RONAN PARK	Lake	01-Jan-1998	
047	0013	88101	1 PM <sub>2.5</sub> - Local Conditions	RONAN PARK	Lake	01-Jan-2000	31-Dec-2005
047	0014	11101	1 Suspended Particulate (Tsp)	SOUTHWEST ST. IGNATIUS	Lake	01-Jan-1981	31-Dec-1987
047	0015	11101	1 Suspended Particulate (Tsp)	GYM ROOF IN EAST ARLEE	Lake	01-Jan-1981	31-Dec-1982
047	0015	11101	2 Suspended Particulate (Tsp)	GYM ROOF IN EAST ARLEE	Lake	01-Jan-1981	31-Dec-1981
047	0015	81101	1 Size Fractionated Particulate	GYM ROOF IN EAST ARLEE	Lake	01-Jan-1981	31-Dec-1981
047	0016	11101	1 Suspended Particulate (Tsp)	CENTRAL EVARO	Lake	01-Jan-1981	31-Dec-1981
047	0017	11101	1 Suspended Particulate (Tsp)	SWAN RIVER YOUTH FOREST CAMP	Lake	01-Jan-1982	31-Dec-1982
047	0017	12306	1 Nitrate (Tsp) Stp	SWAN RIVER YOUTH FOREST CAMP	Lake	01-Jan-1982	31-Dec-1982
047	0017	12403	1 Sulfate (Tsp) Stp	SWAN RIVER YOUTH FOREST CAMP	Lake	01-Jan-1982	31-Dec-1982
047	0018	11101	1 Suspended Particulate (Tsp)	POW WOW GROUNDS #2	Lake	01-Jan-1981	31-Dec-1984
047	0018	11101	2 Suspended Particulate (Tsp)	POW WOW GROUNDS #2	Lake	01-Jan-1981	31-Dec-1984
047	0018	81101	1 Size Fractionated Particulate	POW WOW GROUNDS #2	Lake	01-Jan-1981	31-Dec-1983

047	0019	12209	1	Fluoride (Paper Samplers)	BLUE BAY 17 MILES SO. OF BIGFORK, MT	Lake	01-Jan-1982	31-Dec-1982
047	0019	42410	1	Sulfation Rate	BLUE BAY 17 MILES SO. OF BIGFORK, MT	Lake	01-Jan-1982	31-Dec-1982
047	0020	12209	1	Fluoride (Paper Samplers)	BOULDER 10 MILES NE OF POLSON, MT	Lake	01-Jan-1982	31-Dec-1982
047	0020	42410	1	Sulfation Rate	BOULDER 10 MILES NE OF POLSON, MT	Lake	01-Jan-1982	31-Dec-1982
047	0021	12209	1	Fluoride (Paper Samplers)	NARROWS 9 MI. NE OF POLSON, MT	Lake	01-Jan-1982	31-Dec-1982
047	0021	42410	1	Sulfation Rate	NARROWS 9 MI. NE OF POLSON, MT	Lake	01-Jan-1982	31-Dec-1982
047	0022	12209	1	Fluoride (Paper Samplers)	JETLE 7 MI. NE OF POLSON, MT	Lake	01-Jan-1982	31-Dec-1982
047	0022	42410	1	Sulfation Rate	JETLE 7 MI. NE OF POLSON, MT	Lake	01-Jan-1982	31-Dec-1982
047	0023	12209	1	Fluoride (Paper Samplers)	SUNNY SLOPE II 6 MI. NO. OF POLSON, MT	Lake	01-Jan-1982	31-Dec-1982
047	0023	42410	1	Sulfation Rate	SUNNY SLOPE II 6 MI. NO. OF POLSON, MT	Lake	01-Jan-1982	31-Dec-1982
047	0025	12209	1	Fluoride (Paper Samplers)	BIG SAM 6 MI. NO. OF EVARO, MT	Lake	01-Jan-1982	31-Dec-1982
047	0025	42410	1	Sulfation Rate	BIG SAM 6 MI. NO. OF EVARO, MT	Lake	01-Jan-1982	31-Dec-1982
047	0026	12209	1	Fluoride (Paper Samplers)	SADDLE MTN #1 4 MI. W. OF ARLEE, MT	Lake	01-Jan-1982	31-Dec-1982
047	0026	42410	1	Sulfation Rate	SADDLE MTN #1 4 MI. W. OF ARLEE, MT	Lake	01-Jan-1982	31-Dec-1982
047	0027	12209	1	Fluoride (Paper Samplers)	SADDLE MTN #2 4 MI. W. OF ARLEE, MT	Lake	01-Jan-1982	31-Dec-1982
047	0027	42410	1	Sulfation Rate	SADDLE MTN #2 4 MI. W. OF ARLEE, MT	Lake	01-Jan-1982	31-Dec-1982
047	0028	11101	1	Suspended Particulate (Tsp)	POLSON SADDLE SHOP, 1ST STREET & 4TH AVE	Lake	01-Jan-1984	31-Dec-1989
047	0028	11203	1	Light Scatter	POLSON SADDLE SHOP, 1ST STREET & 4TH AVE	Lake	01-Jan-1988	01-Oct-1991
047	0028	61101	1	Wind Speed	POLSON SADDLE SHOP, 1ST STREET & 4TH AVE	Lake	01-Jan-1986	05-Dec-2008
047	0028	61102	1	Wind Direction	POLSON SADDLE SHOP, 1ST STREET & 4TH AVE	Lake	01-Jan-1986	04-Dec-2008
047	0028	61103	1	Resultant Speed	POLSON SADDLE SHOP, 1ST STREET & 4TH AVE	Lake	01-Oct-2006	04-Dec-2008
047	0028	61105	1	Peak Wind Gust	POLSON SADDLE SHOP, 1ST STREET & 4TH AVE	Lake	01-Oct-2006	04-Dec-2008
047	0028	61106	1	Std Dev Hz Wind Direction	POLSON SADDLE SHOP, 1ST STREET & 4TH AVE	Lake	01-Jan-1986	04-Dec-2008
047	0028	61120	1	Atmospheric Stability	POLSON SADDLE SHOP, 1ST STREET & 4TH AVE	Lake	01-Apr-1995	04-Dec-2008
047	0028	62101	1	Outdoor Temperature	POLSON SADDLE SHOP, 1ST STREET & 4TH AVE	Lake	01-Jan-1986	04-Dec-2008
047	0028	68101	1	Sample Flow Rate- Cv	POLSON SADDLE SHOP, 1ST STREET & 4TH AVE	Lake	01-Jan-2000	31-Dec-2005
047	0028	68101	2	Sample Flow Rate- Cv	POLSON SADDLE SHOP, 1ST STREET & 4TH AVE	Lake	01-Jan-2000	31-Dec-2005
047	0028	68102	1	Sample Volume	POLSON SADDLE SHOP, 1ST STREET & 4TH AVE	Lake	01-Jan-2000	31-Dec-2005
047	0028	68102	2	Sample Volume	POLSON SADDLE SHOP, 1ST STREET & 4TH AVE	Lake	01-Jan-2000	31-Dec-2005
047	0028	68103	1	Ambient Min Temperature	POLSON SADDLE SHOP, 1ST STREET & 4TH AVE	Lake	01-Jan-2000	31-Dec-2005
047	0028	68103	2	Ambient Min Temperature	POLSON SADDLE SHOP, 1ST STREET & 4TH AVE	Lake	01-Jan-2000	31-Dec-2005
047	0028	68104	2	Ambient Max Temperature	POLSON SADDLE SHOP, 1ST STREET & 4TH AVE	Lake	01-Jan-2000	31-Dec-2005
047	0028	68104	1	Ambient Max Temperature	POLSON SADDLE SHOP, 1ST STREET & 4TH AVE	Lake	01-Jan-2000	31-Dec-2005

047	0028	68105	2	Ambient Temperature	POLSON SADDLE SHOP, 1ST STREET & 4TH AVE	Lake	01-Jan-2000	31-Dec-2005
047	0028	68105	1	Ambient Temperature	POLSON SADDLE SHOP, 1ST STREET & 4TH AVE	Lake	01-Jan-2000	31-Dec-2005
047	0028	68106	1	Sample Min Baro Pressure	POLSON SADDLE SHOP, 1ST STREET & 4TH AVE	Lake	01-Jan-2000	31-Dec-2005
047	0028	68106	2	Sample Min Baro Pressure	POLSON SADDLE SHOP, 1ST STREET & 4TH AVE	Lake	01-Jan-2000	31-Dec-2005
047	0028	68107	1	Sample Max Baro Pressure	POLSON SADDLE SHOP, 1ST STREET & 4TH AVE	Lake	01-Jan-2000	31-Dec-2005
047	0028	68107	2	Sample Max Baro Pressure	POLSON SADDLE SHOP, 1ST STREET & 4TH AVE	Lake	01-Jan-2000	31-Dec-2005
047	0028	68108	1	Sample Baro Pressure	POLSON SADDLE SHOP, 1ST STREET & 4TH AVE	Lake	01-Jan-2000	31-Dec-2005
047	0028	68108	2	Sample Baro Pressure	POLSON SADDLE SHOP, 1ST STREET & 4TH AVE	Lake	01-Jan-2000	31-Dec-2005
047	0028	68109	1	Elapsed Sample Time	POLSON SADDLE SHOP, 1ST STREET & 4TH AVE	Lake	01-Jan-2000	31-Dec-2005
047	0028	68109	2	Elapsed Sample Time	POLSON SADDLE SHOP, 1ST STREET & 4TH AVE	Lake	01-Jan-2000	31-Dec-2005
047	0028	81102	4	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	POLSON SADDLE SHOP, 1ST STREET & 4TH AVE	Lake	01-Jul-1994	04-Dec-2008
047	0028	81102	5	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	POLSON SADDLE SHOP, 1ST STREET & 4TH AVE	Lake	01-Jan-1998	31-Dec-1999
047	0028	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	POLSON SADDLE SHOP, 1ST STREET & 4TH AVE	Lake	01-May-1985	31-Dec-1987
047	0028	81102	5	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	POLSON SADDLE SHOP, 1ST STREET & 4TH AVE	Lake	01-Jan-2005	04-Dec-2008
047	0028	81102	2	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	POLSON SADDLE SHOP, 1ST STREET & 4TH AVE	Lake	01-Aug-1988	31-Dec-2005
047	0028	81102	3	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	POLSON SADDLE SHOP, 1ST STREET & 4TH AVE	Lake	01-Aug-1988	31-Dec-1990
047	0028	85101	3	PM10 - Lc	POLSON SADDLE SHOP, 1ST STREET & 4TH AVE	Lake	01-Jan-2005	
047	0028	85101	1	PM10 - Lc	POLSON SADDLE SHOP, 1ST STREET & 4TH AVE	Lake	01-Jan-1998	31-Dec-2005
047	0028	85101	3	PM10 - Lc	POLSON SADDLE SHOP, 1ST STREET & 4TH AVE	Lake	01-Jan-1998	01-Jan-2000
047	0028	85101	2	PM <sub>10</sub> - Lc	POLSON SADDLE SHOP, 1ST STREET & 4TH AVE	Lake	01-Jan-1998	04-Dec-2008
047	0028	88101	1	PM <sub>2.5</sub> - Local Conditions	POLSON SADDLE SHOP, 1ST STREET & 4TH AVE	Lake	01-Jan-2000	31-Dec-2005
047	0028	88101	2	PM <sub>2.5</sub> - Local Conditions	POLSON SADDLE SHOP, 1ST STREET & 4TH AVE	Lake	01-Jan-2000	31-Dec-2005
047	0029	11101	1	Suspended Particulate (Tsp)	NEAR JCT OF HIWAY 93 AND RTE 28	Lake	01-Jan-1986	31-Dec-1988
047	0030	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	FIRE STATION-POLSON, 1ST AVE & KOOTENAI	Lake	01-Jul-1992	05-Jul-1993
047	0031	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	US HWY 93 SOUTH AND TERRACE LAKE ROAD	Lake	26-Mar-1993	31-Dec-1994
047	0032	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	CS&KT TRIBAL COMPLEX	Lake	04-Jan-1996	25-Nov-1998
047	0032	85101	1	PM <sub>10</sub> - Lc	CS&KT TRIBAL COMPLEX	Lake	01-Jan-1998	25-Nov-1998
047	0033	61101	1	Wind Speed	333 ST. MARY'S DR. RD, ST IGNATIUS, MT	Lake	01-Jan-1999	30-Sep-2002
047	0033	61102	1	Wind Direction	333 ST. MARY'S DR. RD, ST IGNATIUS, MT	Lake	01-Jan-1999	30-Sep-2002
047	0033	61106	1	Std Dev Hz Wind Direction	333 ST. MARY'S DR. RD, ST IGNATIUS, MT	Lake	01-Jan-1999	30-Sep-2002
047	0033	61120	1	Atmospheric Stability	333 ST. MARY'S DR. RD, ST IGNATIUS, MT	Lake	01-Jan-1999	30-Sep-2001
047	0033	62101	1	Outdoor Temperature	333 ST. MARY'S DR. RD, ST IGNATIUS, MT	Lake	01-Jan-1999	30-Sep-2002
047	0033	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	333 ST. MARY'S DR. RD, ST IGNATIUS, MT	Lake	01-Nov-1998	29-Sep-2002

047	0033	85101	1	PM <sub>10</sub> - Lc	333 ST. MARY'S DR. RD, ST IGNATIUS, MT	Lake	01-Nov-1998	29-Sep-2002
047	9000	11208	1	Deciview	Flathead	Lake	01-Jun-2002	
047	9000	42401	1	Sulfur Dioxide	Flathead	Lake	01-Jun-2002	
047	9000	62201	1	Relative Humidity	Flathead	Lake	01-Jun-2002	
047	9000	62202	1	Relative Humidity Factor	Flathead	Lake	01-Jun-2002	
047	9000	63102	1	Light Absorption Coeffiecient	Flathead	Lake	01-Jan-2002	
047	9000	81103	1	Pm 10 <sub>2.5</sub> Stp	Flathead	Lake	01-Jan-2005	
047	9000	84203	1	Chloride PM <sub>2.5</sub> Stp	Flathead	Lake	01-Jun-2002	
047	9000	84306	1	Nitrate PM <sub>2.5</sub> Stp	Flathead	Lake	01-Jan-2006	
047	9000	85101	1	PM <sub>10</sub> - Lc	Flathead	Lake	01-Jun-2002	
047	9000	86502	1	Acceptable PM <sub>102.5</sub> LC	Flathead	Lake	01-Jan-2002	
047	9000	88103	1	Arsenic PM <sub>2.5</sub> Lc	Flathead	Lake	01-Jun-2002	
047	9000	88104	1	Aluminum PM <sub>2.5</sub> Lc	Flathead	Lake	01-Jun-2002	
047	9000	88109	1	Bromine PM <sub>2.5</sub> Lc	Flathead	Lake	01-Jun-2002	
047	9000	88111	1	Calcium PM <sub>2.5</sub> Lc	Flathead	Lake	01-Jun-2002	
047	9000	88112	1	Chromium PM <sub>2.5</sub> Lc	Flathead	Lake	01-Jun-2002	
047	9000	88114	1	Copper PM <sub>2.5</sub> Lc	Flathead	Lake	01-Jun-2002	
047	9000	88115	1	Chlorine PM <sub>2.5</sub> Lc	Flathead	Lake	01-Jun-2002	
047	9000	88126	1	Iron PM <sub>2.5</sub> Lc	Flathead	Lake	01-Jun-2002	
047	9000	88128	1	Lead PM <sub>2.5</sub> Lc	Flathead	Lake	01-Jun-2002	
047	9000	88132	1	Manganese PM <sub>2.5</sub> Lc	Flathead	Lake	01-Jun-2002	
047	9000	88136	1	Nickel PM <sub>2.5</sub> Lc	Flathead	Lake	01-Jun-2002	
047	9000	88140	1	Magnesium PM <sub>2.5</sub> Lc	Flathead	Lake	01-Jun-2002	
047	9000	88152	1	Phosphorus PM <sub>2.5</sub> Lc	Flathead	Lake	01-Jun-2002	
047	9000	88154	1	Selenium PM <sub>2.5</sub> Lc	Flathead	Lake	01-Jun-2002	
047	9000	88161	1	Titanium PM <sub>2.5</sub> Lc	Flathead	Lake	01-Jun-2002	
047	9000	88164	1	Vanadium PM <sub>2.5</sub> Lc	Flathead	Lake	01-Jun-2002	
047	9000	88165	1	Silicon PM <sub>2.5</sub> Lc	Flathead	Lake	01-Jun-2002	
047	9000	88167	1	Zinc PM <sub>2.5</sub> Lc	Flathead	Lake	01-Jun-2002	
047	9000	88168	1	Strontium PM <sub>2.5</sub> Lc	Flathead	Lake	01-Jun-2002	
047	9000	88169	1	Sulfur PM <sub>2.5</sub> Lc	Flathead	Lake	01-Jun-2002	
047	9000	88176	1	Rubidium PM <sub>2.5</sub> Lc	Flathead	Lake	01-Jun-2002	
047	9000	88180	1	Potassium PM <sub>2.5</sub> Lc	Flathead	Lake	01-Jun-2002	

047	9000	88184	1	Sodium PM <sub>2.5</sub> Lc	Flathead	Lake	01-Jun-2002
047	9000	88185	1	Zirconium PM <sub>2.5</sub> Lc	Flathead	Lake	01-Jun-2002
047	9000	88203	1	Chloride PM2.5 Lc	Flathead	Lake	01-Jun-2002
047	9000	88301	1	Ammonium Ion PM <sub>2.5</sub> Lc	Flathead	Lake	01-Jun-2002
047	9000	88306	1	Total Nitrate PM <sub>2.5</sub> Lc	Flathead	Lake	01-Jun-2002
047	9000	88307	1	Ec Csn PM <sub>2.5</sub> LC	Flathead	Lake	01-Jan-2002
047	9000	88320	1	Oc PM <sub>2.5</sub> Lc Tor	Flathead	Lake	01-Jan-2002
047	9000	88321	1	Ec PM <sub>2.5</sub> Lc Tor	Flathead	Lake	01-Jan-2005
047	9000	88328	1	Op PM <sub>2.5</sub> Lc Tor	Flathead	Lake	01-Jan-2005
047	9000	88329	1	Ec1 PM <sub>2.5</sub> Lc	Flathead	Lake	01-Jun-2002
047	9000	88330	1	Ec2 PM <sub>2.5</sub> Lc	Flathead	Lake	01-Jun-2002
047	9000	88331	1	Ec3 PM <sub>2.5</sub> Lc	Flathead	Lake	01-Jun-2002
047	9000	88332	1	Oc1 Csn Unadj PM <sub>2.5</sub> LC	Flathead	Lake	01-Jun-2002
047	9000	88333	1	Oc2 Csn Unadj PM <sub>2.5</sub> LC	Flathead	Lake	01-Jun-2002
047	9000	88334	1	Oc3 Csn Unadj PM <sub>2.5</sub> LC	Flathead	Lake	01-Jun-2002
047	9000	88335	1	Oc4 Csn Unadj PM <sub>2.5</sub> LC	Flathead	Lake	01-Jun-2002
047	9000	88336	1	Op Csn PM <sub>2.5</sub> LC	Flathead	Lake	01-Jun-2002
047	9000	88337	1	Hydrogen PM <sub>2.5</sub> Lc	Flathead	Lake	01-Jun-2002
047	9000	88338	1	Nitrite PM <sub>2.5</sub> Lc	Flathead	Lake	01-Jun-2002
047	9000	88339	1	NH4NO3 PM <sub>2.5</sub> Lc	Flathead	Lake	01-Jan-2002
047	9000	88340	1	NH4NO3 Extinct.PM2.5 Lc	Flathead	Lake	01-Jan-2002
047	9000	88341	1	Aerosol Extinct.PM <sub>2.5</sub> Lc	Flathead	Lake	01-Jan-2002
047	9000	88342	1	Coar. Mass Extinct.PM25 Lc	Flathead	Lake	01-Jan-2002
047	9000	88343	1	EC Extinct.PM <sub>2.5</sub> Lc	Flathead	Lake	01-Jan-2002
047	9000	88344	1	NH4NO3 PM <sub>2.5</sub> Lc	Flathead	Lake	01-Jan-2002
047	9000	88345	1	NH4NO3 Extinct. PM <sub>2.5</sub> Lc	Flathead	Lake	01-Jan-2002
047	9000	88346	1	OC Extinct.PM <sub>2.5</sub> Lc	Flathead	Lake	01-Jan-2002
047	9000	88348	1	Soil PM <sub>2.5</sub> Lc	Flathead	Lake	01-Jan-2002
047	9000	88349	1	Soil Extinct.PM <sub>2.5</sub> Lc	Flathead	Lake	01-Jan-2002
047	9000	88350	1	OC Mass PM <sub>2.5</sub> Lc	Flathead	Lake	01-Jan-2002
047	9000	88395	1	Sea Salt (PM <sub>2.5</sub> )	Flathead	Lake	01-Jan-2007
047	9000	88401	1	Reconstruct.Mass PM <sub>2.5</sub> Lc	Flathead	Lake	01-Jan-2002
047	9000	88403	1	Sulfate PM <sub>2.5</sub> Lc	Flathead	Lake	01-Jun-2002

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047	9000	88502	1	Accpt.PM25 AQI Spec.Mass	Flathead	Lake	01-Jun-2002	
049	0001	11101	3	Suspended Particulate (Tsp)	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1979	31-Dec-1980
049	0001	11101	1	Suspended Particulate (Tsp)	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1957	31-Dec-1987
049	0001	11103	1	Benzene Sol.Organics(TSP)	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1957	31-Dec-1970
049	0001	11302	1	Beta Radiation (Tsp)	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1958	31-Dec-1966
049	0001	12103	1	Arsenic (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1977	31-Dec-1977
049	0001	12105	3	Beryllium (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1965	31-Dec-1976
049	0001	12105	1	Beryllium (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1977	31-Dec-1977
049	0001	12105	2	Beryllium (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1964	31-Dec-1964
049	0001	12107	1	Barium (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1977	31-Dec-1977
049	0001	12110	2	Cadmium (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1964	31-Dec-1967
049	0001	12110	3	Cadmium (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1968	31-Dec-1976
049	0001	12110	1	Cadmium (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1977	31-Dec-1977
049	0001	12112	3	Chromium (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1977	31-Dec-1977
049	0001	12112	1	Chromium (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1964	31-Dec-1964
049	0001	12112	2	Chromium (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1965	31-Dec-1976
049	0001	12113	2	Cobalt (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1965	31-Dec-1976
049	0001	12113	3	Cobalt (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1977	31-Dec-1977
049	0001	12113	1	Cobalt (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1964	31-Dec-1964
049	0001	12114	2	Copper (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1964	31-Dec-1964
049	0001	12114	3	Copper (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1965	31-Dec-1976
049	0001	12114	1	Copper (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1977	31-Dec-1977
049	0001	12126	1	Iron (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1977	31-Dec-1977
049	0001	12126	3	Iron (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1965	31-Dec-1976
049	0001	12126	2	Iron (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1964	31-Dec-1964
049	0001	12128	4	Lead (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1965	31-Dec-1975
049	0001	12128	2	Lead (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1964	31-Dec-1964
049	0001	12128	3	Lead (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1975	31-Dec-1975
049	0001	12128	5	Lead (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1989	01-Jan-1997
049	0001	12128	1	Lead (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1977	31-Dec-1977
049	0001	12132	3	Manganese (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1965	31-Dec-1976
049	0001	12132	1	Manganese (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1977	31-Dec-1977
049	0001	12132	2	Manganese (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1964	31-Dec-1964

049	0001	12134	1	Molybdenum (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1977	31-Dec-1977
049	0001	12136	2	Nickel (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1964	31-Dec-1964
049	0001	12136	3	Nickel (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1965	31-Dec-1976
049	0001	12136	1	Nickel (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1977	31-Dec-1977
049	0001	12160	1	Tin (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1964	31-Dec-1964
049	0001	12160	2	Tin (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1965	31-Dec-1972
049	0001	12161	2	Titanium (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1965	31-Dec-1976
049	0001	12161	1	Titanium (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1964	31-Dec-1964
049	0001	12164	1	Vanadium (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1977	31-Dec-1977
049	0001	12164	2	Vanadium (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1964	31-Dec-1964
049	0001	12164	3	Vanadium (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1965	31-Dec-1976
049	0001	12167	1	Zinc (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1977	31-Dec-1977
049	0001	12167	2	Zinc (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1964	31-Dec-1964
049	0001	12167	3	Zinc (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1965	31-Dec-1967
049	0001	12183	1	Yttrium (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1968	31-Dec-1968
049	0001	12202	1	Fluoride (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1966	31-Dec-1970
049	0001	12209	1	Fluoride (Paper Samplers)	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1966	31-Dec-1970
049	0001	12301	2	Ammonium (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1957	31-Dec-1977
049	0001	12301	1	Ammonium (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1965	31-Dec-1965
049	0001	12306	2	Nitrate (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1957	31-Dec-1977
049	0001	12306	1	Nitrate (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1958	31-Dec-1965
049	0001	12403	1	Sulfate (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1957	31-Dec-1977
049	0001	12403	2	Sulfate (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1958	31-Dec-1965
049	0001	12403	3	Sulfate (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1982	31-Dec-1982
049	0001	17242	1	Benzo[A]Pyrene (Tsp) Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1966	31-Dec-1970
049	0001	21101	1	Total Dustfall (Sp)	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1969	31-Dec-1969
049	0001	42401	1	Sulfur Dioxide	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1974	31-Dec-1975
049	0001	42401	2	Sulfur Dioxide	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1975	31-Dec-1977
049	0001	42410	2	Sulfation Rate	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1969	31-Dec-1969
049	0001	42410	1	Sulfation Rate	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1968	31-Dec-1968
049	0001	72101	1	Silver Tarnishing	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1969	31-Dec-1969
049	0001	72303	1	Dyed Fabric #3	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1969	31-Dec-1969
049	0001	72305	1	Dyed Fabric #5	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1969	31-Dec-1969

049	0001	72306	1	Dyed Fabric #6	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1969	31-Dec-1969
049	0001	72307	1	Dyed Fabric #7	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1969	31-Dec-1969
049	0001	72401	1	Rubber Cracking	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1969	31-Dec-1969
049	0001	72501	1	Nylon Deterioration	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1969	31-Dec-1969
049	0001	81102	4	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	21-Apr-1987	31-Dec-1990
049	0001	81102	3	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Jan-1985	31-Dec-1987
049	0001	81102	2	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	21-Apr-1987	20-Sep-1997
049	0001	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-May-1985	31-Dec-1987
049	0001	82306	1	Nitrate PM <sub>10</sub> Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Sep-1996	30-Jun-1997
049	0001	82403	1	Sulfate PM <sub>10</sub> Stp	COGSWELL BLDG, 1401 LOCKEY	Lewis and Clark	01-Sep-1996	30-Jun-1997
049	0002	11101	1	Suspended Particulate (Tsp)	COGSWELL BLDG #2	Lewis and Clark	01-Jan-1978	31-Dec-1978
049	0002	21101	1	Total Dustfall (Sp)	COGSWELL BLDG #2	Lewis and Clark	01-Jan-1968	31-Dec-1969
049	0002	42410	1	Sulfation Rate	COGSWELL BLDG #2	Lewis and Clark	01-Jan-1968	31-Dec-1969
049	0002	42410	2	Sulfation Rate	COGSWELL BLDG #2	Lewis and Clark	01-Jan-1968	31-Dec-1968
049	0002	72101	1	Silver Tarnishing	COGSWELL BLDG #2	Lewis and Clark	01-Jan-1968	31-Dec-1969
049	0002	72201	1	Steel Corrosion	COGSWELL BLDG #2	Lewis and Clark	01-Jan-1968	31-Dec-1968
049	0002	72301	1	Dyed Fabric #1	COGSWELL BLDG #2	Lewis and Clark	01-Jan-1968	31-Dec-1968
049	0002	72303	1	Dyed Fabric #3	COGSWELL BLDG #2	Lewis and Clark	01-Jan-1968	31-Dec-1969
049	0002	72305	1	Dyed Fabric #5	COGSWELL BLDG #2	Lewis and Clark	01-Jan-1968	31-Dec-1969
049	0002	72306	1	Dyed Fabric #6	COGSWELL BLDG #2	Lewis and Clark	01-Jan-1968	31-Dec-1969
049	0002	72307	1	Dyed Fabric #7	COGSWELL BLDG #2	Lewis and Clark	01-Jan-1968	31-Dec-1969
049	0002	72308	1	Dyed Fabric #8	COGSWELL BLDG #2	Lewis and Clark	01-Jan-1968	31-Dec-1968
049	0002	72309	1	Dyed Fabric #9	COGSWELL BLDG #2	Lewis and Clark	01-Jan-1968	31-Dec-1968
049	0002	72401	1	Rubber Cracking	COGSWELL BLDG #2	Lewis and Clark	01-Jan-1969	31-Dec-1969
049	0002	72501	1	Nylon Deterioration	COGSWELL BLDG #2	Lewis and Clark	01-Jan-1968	31-Dec-1969
049	0003	42401	2	Sulfur Dioxide	WEGNER RANCH	Lewis and Clark	01-Jan-1972	31-Dec-1972
049	0003	42401	1	Sulfur Dioxide	WEGNER RANCH	Lewis and Clark	01-Jan-1972	31-Dec-1972
049	0006	11101	1	Suspended Particulate (Tsp)	120 E MAIN (E. HELENA)	Lewis and Clark	01-Jan-1972	01-Jan-1974
049	0006	12103	1	Arsenic (Tsp) Stp	120 E MAIN (E. HELENA)	Lewis and Clark	01-Jan-1972	01-Jan-1974
049	0006	12110	1	Cadmium (Tsp) Stp	120 E MAIN (E. HELENA)	Lewis and Clark	01-Jan-1972	01-Jan-1974
049	0006	12128	1	Lead (Tsp) Stp	120 E MAIN (E. HELENA)	Lewis and Clark	01-Jan-1972	01-Jan-1974
049	0006	12167	1	Zinc (Tsp) Stp	120 E MAIN (E. HELENA)	Lewis and Clark	01-Jan-1972	01-Jan-1974
049	0007	11101	1	Suspended Particulate (Tsp)	SCHNEIDER RESIDENCE, 525 PRICKLY PEAR	Lewis and Clark	01-Jan-1983	31-Dec-1983

049	0007	12103	1	Arsenic (Tsp) Stp	SCHNEIDER RESIDENCE, 525 PRICKLY PEAR	Lewis and Clark	01-Jul-1983	31-Dec-1983
049	0007	12110	1	Cadmium (Tsp) Stp	SCHNEIDER RESIDENCE, 525 PRICKLY PEAR	Lewis and Clark	01-Jan-1983	31-Dec-1983
049	0007	12114	1	Copper (Tsp) Stp	SCHNEIDER RESIDENCE, 525 PRICKLY PEAR	Lewis and Clark	01-Jan-1983	31-Dec-1983
049	0007	12128	1	Lead (Tsp) Stp	SCHNEIDER RESIDENCE, 525 PRICKLY PEAR	Lewis and Clark	01-Jan-1983	31-Dec-1983
049	0007	12167	1	Zinc (Tsp) Stp	SCHNEIDER RESIDENCE, 525 PRICKLY PEAR	Lewis and Clark	01-Jan-1983	31-Dec-1983
049	0008	11101	1	Suspended Particulate (Tsp)	A&W EAST HELENA	Lewis and Clark	01-Dec-1979	31-Dec-1981
049	0008	12103	1	Arsenic (Tsp) Stp	A&W EAST HELENA	Lewis and Clark	01-Dec-1979	31-Dec-1981
049	0008	12110	1	Cadmium (Tsp) Stp	A&W EAST HELENA	Lewis and Clark	01-Dec-1979	31-Dec-1981
049	0008	12112	1	Chromium (Tsp) Stp	A&W EAST HELENA	Lewis and Clark	01-Dec-1979	31-Dec-1980
049	0008	12114	1	Copper (Tsp) Stp	A&W EAST HELENA	Lewis and Clark	01-Dec-1979	31-Dec-1981
049	0008	12128	1	Lead (Tsp) Stp	A&W EAST HELENA	Lewis and Clark	01-Dec-1979	31-Dec-1981
049	0008	12132	1	Manganese (Tsp) Stp	A&W EAST HELENA	Lewis and Clark	01-Dec-1979	31-Dec-1980
049	0008	12136	1	Nickel (Tsp) Stp	A&W EAST HELENA	Lewis and Clark	01-Dec-1979	31-Dec-1980
049	0008	12164	1	Vanadium (Tsp) Stp	A&W EAST HELENA	Lewis and Clark	01-Dec-1979	31-Dec-1980
049	0008	12167	1	Zinc (Tsp) Stp	A&W EAST HELENA	Lewis and Clark	01-Jan-1981	31-Dec-1981
049	0008	12306	1	Nitrate (Tsp) Stp	A&W EAST HELENA	Lewis and Clark	01-Jan-1980	31-Dec-1980
049	0008	12403	1	Sulfate (Tsp) Stp	A&W EAST HELENA	Lewis and Clark	01-Jan-1980	31-Dec-1980
049	0008	42401	1	Sulfur Dioxide	A&W EAST HELENA	Lewis and Clark	01-Dec-1979	31-Dec-1981
049	0008	42410	1	Sulfation Rate	A&W EAST HELENA	Lewis and Clark	01-Jan-1980	31-Dec-1981
049	0008	61101	1	Wind Speed	A&W EAST HELENA	Lewis and Clark	01-Jan-1980	31-Dec-1980
049	0008	61102	1	Wind Direction	A&W EAST HELENA	Lewis and Clark	01-Jan-1980	31-Dec-1980
049	0009	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	1065 PHILLIPS LANE	Lewis and Clark	06-Jun-1985	31-Dec-1987
049	0009	81102	2	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	1065 PHILLIPS LANE	Lewis and Clark	21-Apr-1987	31-Dec-1987
049	0011	11101	1	Suspended Particulate (Tsp)	PHELPS DODGE CORP.SEVEN-UP PETE #2	Lewis and Clark	01-Jan-1979	31-Dec-1979
049	0011	12103	1	Arsenic (Tsp) Stp	PHELPS DODGE CORP.SEVEN-UP PETE #2	Lewis and Clark	01-Jan-1979	31-Dec-1979
049	0011	12110	1	Cadmium (Tsp) Stp	PHELPS DODGE CORP.SEVEN-UP PETE #2	Lewis and Clark	01-Jan-1979	31-Dec-1979
049	0011	12112	1	Chromium (Tsp) Stp	PHELPS DODGE CORP.SEVEN-UP PETE #2	Lewis and Clark	01-Jan-1979	31-Dec-1979
049	0011	12114	1	Copper (Tsp) Stp	PHELPS DODGE CORP.SEVEN-UP PETE #2	Lewis and Clark	01-Jan-1979	31-Dec-1979
049	0011	12128	1	Lead (Tsp) Stp	PHELPS DODGE CORP.SEVEN-UP PETE #2	Lewis and Clark	01-Jan-1979	31-Dec-1979
049	0011	12132	1	Manganese (Tsp) Stp	PHELPS DODGE CORP.SEVEN-UP PETE #2	Lewis and Clark	01-Jan-1979	31-Dec-1979
049	0011	12136	1	Nickel (Tsp) Stp	PHELPS DODGE CORP.SEVEN-UP PETE #2	Lewis and Clark	01-Jan-1979	31-Dec-1979
049	0011	12164	1	Vanadium (Tsp) Stp	PHELPS DODGE CORP.SEVEN-UP PETE #2	Lewis and Clark	01-Jan-1979	31-Dec-1979
049	0011	12306	1	Nitrate (Tsp) Stp	PHELPS DODGE CORP.SEVEN-UP PETE #2	Lewis and Clark	01-Jan-1979	31-Dec-1979

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049	0011	12403	1	Sulfate (Tsp) Stp	PHELPS DODGE CORP.SEVEN-UP PETE #2	Lewis and Clark	01-Jan-1979	31-Dec-1979
049	0011	42401	1	Sulfur Dioxide	PHELPS DODGE CORP.SEVEN-UP PETE #2	Lewis and Clark	01-Jan-1975	31-Dec-1979
049	0011	42410	1	Sulfation Rate	PHELPS DODGE CORP.SEVEN-UP PETE #2	Lewis and Clark	01-Jan-1978	31-Dec-1981
049	0012	11101	1	Suspended Particulate (Tsp)	PHELPS DODGE CORP.MCDONALD MEADOWS #1	Lewis and Clark	01-Jan-1980	31-Dec-1981
049	0012	12128	1	Lead (Tsp) Stp	PHELPS DODGE CORP.MCDONALD MEADOWS #1	Lewis and Clark	01-Jan-1980	31-Dec-1981
049	0013	11101	1	Suspended Particulate (Tsp)	CAPITAL COURTS, 1013 DEARBORN AVE	Lewis and Clark	01-Jan-1980	31-Dec-1988
049	0013	12403	1	Sulfate (Tsp) Stp	CAPITAL COURTS, 1013 DEARBORN AVE	Lewis and Clark	01-Jan-1982	31-Dec-1982
049	0014	11101	1	Suspended Particulate (Tsp)	SUNHAVEN, 117 VALLEY DRIVE, HELENA	Lewis and Clark	01-Jan-1981	31-Dec-1981
049	0015	11101	1	Suspended Particulate (Tsp)	SUPERSAVE GROCERY, NORTHGATE SHOPPING	Lewis and Clark	01-Jan-1982	31-Dec-1982
049	0016	11101	1	Suspended Particulate (Tsp)	COONEY HOME, 3404 COONEY DR, N. HELENA	Lewis and Clark	01-Jan-1982	31-Dec-1985
049	0018	11203	1	Light Scatter	LINCOLN SCHOOL PARKING LOT, 1325 POPLAR	Lewis and Clark	23-Dec-1988	28-Feb-1993
049	0018	61101	1	Wind Speed	LINCOLN SCHOOL PARKING LOT, 1325 POPLAR	Lewis and Clark	23-Dec-1988	31-Dec-1989
049	0018	61102	1	Wind Direction	LINCOLN SCHOOL PARKING LOT, 1325 POPLAR	Lewis and Clark	23-Dec-1988	31-Dec-1989
049	0018	68101	1	Sample Flow Rate- Cv	LINCOLN SCHOOL PARKING LOT, 1325 POPLAR	Lewis and Clark	01-Jan-1999	01-Jan-2007
049	0018	68102	1	Sample Volume	LINCOLN SCHOOL PARKING LOT, 1325 POPLAR	Lewis and Clark	01-Jan-1999	01-Jan-2007
049	0018	68103	1	Ambient Min Temperature	LINCOLN SCHOOL PARKING LOT, 1325 POPLAR	Lewis and Clark	01-Jan-1999	01-Jan-2007
049	0018	68104	1	Ambient Max Temperature	LINCOLN SCHOOL PARKING LOT, 1325 POPLAR	Lewis and Clark	01-Jan-1999	01-Jan-2007
049	0018	68105	1	Ambient Temperature	LINCOLN SCHOOL PARKING LOT, 1325 POPLAR	Lewis and Clark	01-Jan-1999	24-Jul-2009
049	0018	68106	1	Sample Min Baro Pressure	LINCOLN SCHOOL PARKING LOT, 1325 POPLAR	Lewis and Clark	01-Jan-1999	01-Jan-2007
049	0018	68107	1	Sample Max Baro Pressure	LINCOLN SCHOOL PARKING LOT, 1325 POPLAR	Lewis and Clark	01-Jan-1999	01-Jan-2007
049	0018	68108	1	Sample Baro Pressure	LINCOLN SCHOOL PARKING LOT, 1325 POPLAR	Lewis and Clark	01-Jan-1999	24-Jul-2009
049	0018	68109	1	Elapsed Sample Time	LINCOLN SCHOOL PARKING LOT, 1325 POPLAR	Lewis and Clark	01-Jan-1999	01-Jan-2007
049	0018	81102	2	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	LINCOLN SCHOOL PARKING LOT, 1325 POPLAR	Lewis and Clark	01-Nov-1988	31-Dec-1989
049	0018	81102	3	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	LINCOLN SCHOOL PARKING LOT, 1325 POPLAR	Lewis and Clark	01-Oct-1993	31-Dec-2006
049	0018	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	LINCOLN SCHOOL PARKING LOT, 1325 POPLAR	Lewis and Clark	31-Oct-1988	30-Dec-2005
049	0018	85101	2	PM10 - Lc	LINCOLN SCHOOL PARKING LOT, 1325 POPLAR	Lewis and Clark	01-Jan-2000	31-Dec-2006
049	0018	85101	1	PM <sub>10</sub> - Lc	LINCOLN SCHOOL PARKING LOT, 1325 POPLAR	Lewis and Clark	01-Jan-1998	30-Dec-2005
049	0018	88101	1	PM <sub>2.5</sub> - Local Conditions	LINCOLN SCHOOL PARKING LOT, 1325 POPLAR	Lewis and Clark	01-Jan-1999	24-Jul-2009
049	0018	88101	3	PM <sub>2.5</sub> - Local Conditions	LINCOLN SCHOOL PARKING LOT, 1325 POPLAR	Lewis and Clark	01-Jul-2008	26-Jul-2009
049	0018	88502	3	Accpt.PM25 AQI Spec.Mass	LINCOLN SCHOOL PARKING LOT, 1325 POPLAR	Lewis and Clark	01-Jan-2007	30-Jun-2008
049	0019	68101	1	Sample Flow Rate- Cv	US 200	Lewis and Clark	03-Jan-2003	13-Apr-2005
049	0019	68102	1	Sample Volume	US 200	Lewis and Clark	03-Jan-2003	13-Apr-2005
049	0019	68103	1	Ambient Min Temperature	US 200	Lewis and Clark	03-Jan-2003	13-Apr-2005

049	0019	68104	1	Ambient Max Temperature	US 200	Lewis and Clark	03-Jan-2003	13-Apr-2005
049	0019	68105	1	Ambient Temperature	US 200	Lewis and Clark	03-Jan-2003	13-Apr-2005
049	0019	68106	1	Sample Min Baro Pressure	US 200	Lewis and Clark	03-Jan-2003	13-Apr-2005
049	0019	68107	1	Sample Max Baro Pressure	US 200	Lewis and Clark	03-Jan-2003	13-Apr-2005
049	0019	68108	1	Sample Baro Pressure	US 200	Lewis and Clark	03-Jan-2003	13-Apr-2005
049	0019	68109	1	Elapsed Sample Time	US 200	Lewis and Clark	03-Jan-2003	13-Apr-2005
049	0019	88101	1	PM <sub>2.5</sub> - Local Conditions	US 200	Lewis and Clark	03-Jan-2003	15-Apr-2005
049	0020	61101	1	Wind Speed	PEGASUS GOLD-BASIN CR,DOWNWIND #4,RIMINI	Lewis and Clark	01-Feb-1991	01-Nov-1995
049	0020	61102	1	Wind Direction	PEGASUS GOLD-BASIN CR,DOWNWIND #4,RIMINI	Lewis and Clark	01-Feb-1991	01-Nov-1995
049	0020	61106	1	Std Dev Hz Wind Direction	PEGASUS GOLD-BASIN CR,DOWNWIND #4,RIMINI	Lewis and Clark	01-Feb-1991	01-Nov-1995
049	0020	62101	1	Outdoor Temperature	PEGASUS GOLD-BASIN CR,DOWNWIND #4,RIMINI	Lewis and Clark	01-Feb-1991	01-Nov-1995
049	0020	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	PEGASUS GOLD-BASIN CR,DOWNWIND #4,RIMINI	Lewis and Clark	05-Jan-1990	31-Oct-1997
049	0020	85101	1	PM <sub>10</sub> - Lc	PEGASUS GOLD-BASIN CR,DOWNWIND #4,RIMINI	Lewis and Clark	01-Jan-1998	26-Oct-1998
049	0021	61101	1	Wind Speed	INLAND GOLD-BIG BLACKFOOT, CEMETERY #1	Lewis and Clark	17-May-1990	18-May-1991
049	0021	61102	1	Wind Direction	INLAND GOLD-BIG BLACKFOOT, CEMETERY #1	Lewis and Clark	17-May-1990	18-May-1991
049	0021	61106	1	Std Dev Hz Wind Direction	INLAND GOLD-BIG BLACKFOOT, CEMETERY #1	Lewis and Clark	17-May-1990	18-May-1991
049	0021	62101	1	Outdoor Temperature	INLAND GOLD-BIG BLACKFOOT, CEMETERY #1	Lewis and Clark	17-May-1990	18-May-1991
049	0021	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	INLAND GOLD-BIG BLACKFOOT, CEMETERY #1	Lewis and Clark	29-May-1990	12-May-1991
049	0021	82103	1	Arsenic PM <sub>10</sub> Stp	INLAND GOLD-BIG BLACKFOOT, CEMETERY #1	Lewis and Clark	29-May-1990	12-May-1991
049	0021	82110	1	Cadmium PM <sub>10</sub> Stp	INLAND GOLD-BIG BLACKFOOT, CEMETERY #1	Lewis and Clark	29-May-1990	12-May-1991
049	0021	82112	1	Chromium PM <sub>10</sub> Stp	INLAND GOLD-BIG BLACKFOOT, CEMETERY #1	Lewis and Clark	29-May-1990	12-May-1991
049	0021	82128	1	Lead PM <sub>10</sub> Stp	INLAND GOLD-BIG BLACKFOOT, CEMETERY #1	Lewis and Clark	29-May-1990	12-May-1991
049	0021	82167	1	Zinc PM <sub>10</sub> Stp	INLAND GOLD-BIG BLACKFOOT, CEMETERY #1	Lewis and Clark	29-May-1990	12-May-1991
049	0022	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	INLAND GOLD-BIG BLACKFOOT, ANDERSON #2	Lewis and Clark	17-May-1990	12-May-1991
049	0022	82103	1	Arsenic PM <sub>10</sub> Stp	INLAND GOLD-BIG BLACKFOOT, ANDERSON #2	Lewis and Clark	17-May-1990	12-May-1991
049	0022	82110	1	Cadmium PM <sub>10</sub> Stp	INLAND GOLD-BIG BLACKFOOT, ANDERSON #2	Lewis and Clark	17-May-1990	12-May-1991
049	0022	82112	1	Chromium PM <sub>10</sub> Stp	INLAND GOLD-BIG BLACKFOOT, ANDERSON #2	Lewis and Clark	17-May-1990	12-May-1991
049	0022	82128	1	Lead PM <sub>10</sub> Stp	INLAND GOLD-BIG BLACKFOOT, ANDERSON #2	Lewis and Clark	17-May-1990	12-May-1991
049	0022	82167	1	Zinc PM <sub>10</sub> Stp	INLAND GOLD-BIG BLACKFOOT, ANDERSON #2	Lewis and Clark	17-May-1990	12-May-1991
049	0023	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	INLAND GOLD-BIG BLACKFOOT-POWERLINE #3	Lewis and Clark	10-Jul-1990	12-May-1991
049	0024	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	HELENA-ROSSITER SCHOOL;1497 E SIERRA RD	Lewis and Clark	11-Nov-1996	01-Jan-2003
049	0024	85101	1	PM10 - Lc	HELENA-ROSSITER SCHOOL;1497 E SIERRA RD	Lewis and Clark	01-Jan-1998	01-Jan-2003
049	0025	68101	1	Sample Flow Rate- Cv	LINCOLN 1ST BANK;DOWNTOWN US HWY 200	Lewis and Clark	30-Jun-2001	30-Dec-2002

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049	0025	68102	1	Sample Volume	LINCOLN 1ST BANK;DOWNTOWN US HWY 200	Lewis and Clark	30-Jun-2001	30-Dec-2002
049	0025	68103	1	Ambient Min Temperature	LINCOLN 1ST BANK;DOWNTOWN US HWY 200	Lewis and Clark	30-Jun-2001	30-Dec-2002
049	0025	68104	1	Ambient Max Temperature	LINCOLN 1ST BANK;DOWNTOWN US HWY 200	Lewis and Clark	30-Jun-2001	30-Dec-2002
049	0025	68105	1	Ambient Temperature	LINCOLN 1ST BANK;DOWNTOWN US HWY 200	Lewis and Clark	30-Jun-2001	30-Dec-2002
049	0025	68106	1	Sample Min Baro Pressure	LINCOLN 1ST BANK;DOWNTOWN US HWY 200	Lewis and Clark	30-Jun-2001	30-Dec-2002
049	0025	68107	1	Sample Max Baro Pressure	LINCOLN 1ST BANK;DOWNTOWN US HWY 200	Lewis and Clark	30-Jun-2001	30-Dec-2002
049	0025	68108	1	Sample Baro Pressure	LINCOLN 1ST BANK;DOWNTOWN US HWY 200	Lewis and Clark	30-Jun-2001	30-Dec-2002
049	0025	68109	1	Elapsed Sample Time	LINCOLN 1ST BANK;DOWNTOWN US HWY 200	Lewis and Clark	30-Jun-2001	30-Dec-2002
049	0025	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	LINCOLN 1ST BANK;DOWNTOWN US HWY 200	Lewis and Clark	01-Sep-1997	18-Jun-2001
049	0025	81102	2	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	LINCOLN 1ST BANK;DOWNTOWN US HWY 200	Lewis and Clark	01-Jul-2001	30-Dec-2002
049	0025	85101	1	PM <sub>10</sub> - Lc	LINCOLN 1ST BANK;DOWNTOWN US HWY 200	Lewis and Clark	01-Jan-1998	18-Jun-2001
049	0025	85101	2	PM <sub>10</sub> - Lc	LINCOLN 1ST BANK;DOWNTOWN US HWY 200	Lewis and Clark	01-Jul-2001	30-Dec-2002
049	0025	88101	1	PM <sub>2.5</sub> - Local Conditions	LINCOLN 1ST BANK;DOWNTOWN US HWY 200	Lewis and Clark	30-Jun-2001	30-Dec-2002
049	0026	68105	1	Ambient Temperature	1497 SIERRA ROAD EAST	Lewis and Clark	01-Jan-2007	24-Jul-2009
049	0026	68105	2	Ambient Temperature	1497 SIERRA ROAD EAST	Lewis and Clark	05-Aug-2009	
049	0026	68108	2	Sample Baro Pressure	1497 SIERRA ROAD EAST	Lewis and Clark	05-Aug-2009	
049	0026	68108	1	Sample Baro Pressure	1497 SIERRA ROAD EAST	Lewis and Clark	01-Jan-2007	24-Jul-2009
049	0026	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	1497 SIERRA ROAD EAST	Lewis and Clark	03-Jan-2003	31-Dec-2006
049	0026	85101	1	PM <sub>10</sub> - Lc	1497 SIERRA ROAD EAST	Lewis and Clark	03-Jan-2003	31-Dec-2006
049	0026	88101	3	PM <sub>2.5</sub> - Local Conditions	1497 SIERRA ROAD EAST	Lewis and Clark	04-Aug-2009	
049	0026	88101	1	PM <sub>2.5</sub> - Local Conditions	1497 SIERRA ROAD EAST	Lewis and Clark	01-Jan-2007	24-Jul-2009
049	0026	88101	2	PM <sub>2.5</sub> - Local Conditions	1497 SIERRA ROAD EAST	Lewis and Clark	05-Aug-2009	
049	0701	42401	1	Sulfur Dioxide	ASARCO-KLEFFNER ROAD, EAST HELENA	Lewis and Clark	13-Dec-1968	30-Jun-1997
049	0702	42401	1	Sulfur Dioxide	ASARCO-WATER TANK, EAST HELENA	Lewis and Clark	15-Dec-1968	31-May-2001
049	0703	11101	1	Suspended Particulate (Tsp)	ASARCO-KENNEDY PARK, EAST HELENA	Lewis and Clark	09-Sep-1999	31-Dec-2000
049	0703	12128	1	Lead (Tsp) Stp	ASARCO-KENNEDY PARK, EAST HELENA	Lewis and Clark	09-Sep-1999	31-Dec-2000
049	0703	42401	1	Sulfur Dioxide	ASARCO-KENNEDY PARK, EAST HELENA	Lewis and Clark	14-Dec-1968	31-May-2001
049	0703	61101	1	Wind Speed	ASARCO-KENNEDY PARK, EAST HELENA	Lewis and Clark	01-Dec-1989	30-Jun-1997
049	0703	61102	1	Wind Direction	ASARCO-KENNEDY PARK, EAST HELENA	Lewis and Clark	01-Dec-1989	30-Jun-1997
049	0703	61102	2	Wind Direction	ASARCO-KENNEDY PARK, EAST HELENA	Lewis and Clark	01-Apr-1993	31-Dec-1994
049	0703	61103	1	Resultant Speed	ASARCO-KENNEDY PARK, EAST HELENA	Lewis and Clark	01-Apr-1993	01-Jan-1996
049	0703	61104	1	Resultant Direction	ASARCO-KENNEDY PARK, EAST HELENA	Lewis and Clark	01-Apr-1993	01-Jan-1996
049	0703	61106	1	Std Dev Hz Wind Direction	ASARCO-KENNEDY PARK, EAST HELENA	Lewis and Clark	01-Dec-1989	30-Jun-1997

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049	0703	61109	1	Vertical Wind Speed	ASARCO-KENNEDY PARK, EAST HELENA	Lewis and Clark	01-Apr-1993	31-Dec-1994
049	0703	61110	1	Std Dev Vt Wind Speed	ASARCO-KENNEDY PARK, EAST HELENA	Lewis and Clark	01-Apr-1993	31-Dec-1994
049	0703	62101	1	Outdoor Temperature	ASARCO-KENNEDY PARK, EAST HELENA	Lewis and Clark	01-Dec-1989	30-Jun-1997
049	0711	42401	1	Sulfur Dioxide	ASARCO-EAST, EAST HELENA	Lewis and Clark	01-May-1976	30-Jun-1992
049	0712	11101	1	Suspended Particulate (Tsp)	ASARCO-VOLLMER RESIDENCE, E OF SMELTER	Lewis and Clark	01-Jan-1981	31-Dec-1981
049	0712	12103	1	Arsenic (Tsp) Stp	ASARCO-VOLLMER RESIDENCE, E OF SMELTER	Lewis and Clark	01-Jan-1981	31-Dec-1981
049	0712	12110	1	Cadmium (Tsp) Stp	ASARCO-VOLLMER RESIDENCE, E OF SMELTER	Lewis and Clark	01-Jan-1981	31-Dec-1981
049	0712	12114	1	Copper (Tsp) Stp	ASARCO-VOLLMER RESIDENCE, E OF SMELTER	Lewis and Clark	01-Jan-1981	31-Dec-1981
049	0712	12128	1	Lead (Tsp) Stp	ASARCO-VOLLMER RESIDENCE, E OF SMELTER	Lewis and Clark	01-Jan-1981	31-Dec-1981
049	0712	12167	1	Zinc (Tsp) Stp	ASARCO-VOLLMER RESIDENCE, E OF SMELTER	Lewis and Clark	01-Jan-1981	31-Dec-1981
049	0712	42410	1	Sulfation Rate	ASARCO-VOLLMER RESIDENCE, E OF SMELTER	Lewis and Clark	01-Jan-1981	31-Dec-1981
049	0713	11101	1	Suspended Particulate (Tsp)	ASARCO-CANAL, 3/4 MI EAST OF SMELTER	Lewis and Clark	01-Jan-1981	31-Dec-1981
049	0713	12103	1	Arsenic (Tsp) Stp	ASARCO-CANAL, 3/4 MI EAST OF SMELTER	Lewis and Clark	01-Jan-1981	31-Dec-1981
049	0713	12110	1	Cadmium (Tsp) Stp	ASARCO-CANAL, 3/4 MI EAST OF SMELTER	Lewis and Clark	01-Jan-1981	31-Dec-1981
049	0713	12114	1	Copper (Tsp) Stp	ASARCO-CANAL, 3/4 MI EAST OF SMELTER	Lewis and Clark	01-Jan-1981	31-Dec-1981
049	0713	12128	1	Lead (Tsp) Stp	ASARCO-CANAL, 3/4 MI EAST OF SMELTER	Lewis and Clark	01-Jan-1981	31-Dec-1981
049	0713	12167	1	Zinc (Tsp) Stp	ASARCO-CANAL, 3/4 MI EAST OF SMELTER	Lewis and Clark	01-Jan-1981	31-Dec-1981
049	0713	42410	1	Sulfation Rate	ASARCO-CANAL, 3/4 MI EAST OF SMELTER	Lewis and Clark	01-Jan-1981	31-Dec-1981
049	0714	11101	1	Suspended Particulate (Tsp)	FIREHALL,CORNER PACIFIC&MORTON,E.HELENA	Lewis and Clark	01-Jan-1981	31-Dec-2000
049	0714	11101	3	Suspended Particulate (Tsp)	FIREHALL,CORNER PACIFIC&MORTON,E.HELENA	Lewis and Clark	01-Jan-1981	31-Dec-1981
049	0714	12103	2	Arsenic (Tsp) Stp	FIREHALL,CORNER PACIFIC&MORTON,E.HELENA	Lewis and Clark	01-Jan-1981	31-Dec-1981
049	0714	12103	1	Arsenic (Tsp) Stp	FIREHALL,CORNER PACIFIC&MORTON,E.HELENA	Lewis and Clark	01-Jan-1981	31-Dec-2000
049	0714	12110	1	Cadmium (Tsp) Stp	FIREHALL,CORNER PACIFIC&MORTON,E.HELENA	Lewis and Clark	15-Feb-1981	31-Dec-2000
049	0714	12110	3	Cadmium (Tsp) Stp	FIREHALL,CORNER PACIFIC&MORTON,E.HELENA	Lewis and Clark	01-Jan-1981	31-Dec-1981
049	0714	12112	2	Chromium (Tsp) Stp	FIREHALL,CORNER PACIFIC&MORTON,E.HELENA	Lewis and Clark	01-Jan-1981	31-Dec-1981
049	0714	12112	1	Chromium (Tsp) Stp	FIREHALL,CORNER PACIFIC&MORTON,E.HELENA	Lewis and Clark	01-Jan-1981	31-Dec-2000
049	0714	12114	3	Copper (Tsp) Stp	FIREHALL,CORNER PACIFIC&MORTON,E.HELENA	Lewis and Clark	01-Jan-1981	31-Dec-1981
049	0714	12114	1	Copper (Tsp) Stp	FIREHALL,CORNER PACIFIC&MORTON,E.HELENA	Lewis and Clark	15-Feb-1981	31-Dec-2000
049	0714	12126	2	Iron (Tsp) Stp	FIREHALL,CORNER PACIFIC&MORTON,E.HELENA	Lewis and Clark	01-Jan-1981	31-Dec-1981
049	0714	12126	1	Iron (Tsp) Stp	FIREHALL, CORNER PACIFIC&MORTON, E.HELENA	Lewis and Clark	01-Jan-1981	31-Dec-1981
049	0714	12128	3	Lead (Tsp) Stp	FIREHALL, CORNER PACIFIC&MORTON, E.HELENA	Lewis and Clark	01-Jan-1981	31-Dec-1981
049	0714	12128	1	Lead (Tsp) Stp	FIREHALL, CORNER PACIFIC&MORTON, E.HELENA	Lewis and Clark	01-Jan-1981	31-Dec-2000
049	0714	12136	1	Nickel (Tsp) Stp	FIREHALL, CORNER PACIFIC&MORTON, E. HELENA	Lewis and Clark	01-Jul-1995	31-Dec-2000

049	0714	12160	1	Tin (Tsp) Stp	FIREHALL, CORNER PACIFIC&MORTON, E. HELENA	Lewis and Clark	01-Jan-1987	31-Dec-1988
049	0714	12167	1	Zinc (Tsp) Stp	FIREHALL, CORNER PACIFIC&MORTON, E. HELENA	Lewis and Clark	01-Jan-1983	31-Dec-2000
049	0714	42410	1	Sulfation Rate	FIREHALL, CORNER PACIFIC&MORTON, E. HELENA	Lewis and Clark	01-Jan-1981	31-Dec-1981
049	0714	61101	1	Wind Speed	FIREHALL, CORNER PACIFIC&MORTON, E. HELENA	Lewis and Clark	01-Dec-1989	30-Jun-1997
049	0714	61102	1	Wind Direction	FIREHALL, CORNER PACIFIC&MORTON, E. HELENA	Lewis and Clark	01-Dec-1989	30-Jun-1997
049	0714	61106	1	Std Dev Hz Wind Direction	FIREHALL,CORNER PACIFIC&MORTON,E.HELENA	Lewis and Clark	01-Dec-1989	30-Jun-1997
049	0714	62101	1	Outdoor Temperature	FIREHALL, CORNER PACIFIC&MORTON, E. HELENA	Lewis and Clark	01-Dec-1989	30-Jun-1997
049	0715	11101	1	Suspended Particulate (Tsp)	ASARCO-PADBURY, SO OF HIWAY DEPT	Lewis and Clark	01-Jan-1981	31-Dec-1981
049	0715	12103	1	Arsenic (Tsp) Stp	ASARCO-PADBURY, SO OF HIWAY DEPT	Lewis and Clark	01-Jan-1981	31-Dec-1981
049	0715	12110	1	Cadmium (Tsp) Stp	ASARCO-PADBURY, SO OF HIWAY DEPT	Lewis and Clark	01-Jan-1981	31-Dec-1981
049	0715	12114	1	Copper (Tsp) Stp	ASARCO-PADBURY, SO OF HIWAY DEPT	Lewis and Clark	01-Jan-1981	31-Dec-1981
049	0715	12128	1	Lead (Tsp) Stp	ASARCO-PADBURY, SO OF HIWAY DEPT	Lewis and Clark	01-Jan-1981	31-Dec-1981
049	0715	12167	1	Zinc (Tsp) Stp	ASARCO-PADBURY, SO OF HIWAY DEPT	Lewis and Clark	01-Jan-1981	31-Dec-1981
049	0716	11101	1	Suspended Particulate (Tsp)	KLEFFNER FIELD	Lewis and Clark	01-Jan-1981	31-Dec-1985
049	0716	12103	1	Arsenic (Tsp) Stp	KLEFFNER FIELD	Lewis and Clark	01-Jan-1981	31-Dec-1985
049	0716	12110	1	Cadmium (Tsp) Stp	KLEFFNER FIELD	Lewis and Clark	09-Oct-1981	31-Dec-1985
049	0716	12114	1	Copper (Tsp) Stp	KLEFFNER FIELD	Lewis and Clark	10-Oct-1981	31-Dec-1985
049	0716	12128	1	Lead (Tsp) Stp	KLEFFNER FIELD	Lewis and Clark	01-Jan-1981	31-Dec-1985
049	0716	12167	1	Zinc (Tsp) Stp	KLEFFNER FIELD	Lewis and Clark	10-Oct-1981	31-Dec-1985
049	0719	11101	1	Suspended Particulate (Tsp)	HADFIELD, 101 WEST MAIN, EAST HELENA	Lewis and Clark	01-Jan-1981	18-Jun-1993
049	0719	11101	2	Suspended Particulate (Tsp)	HADFIELD, 101 WEST MAIN, EAST HELENA	Lewis and Clark	01-Jan-1981	31-Dec-1990
049	0719	12103	1	Arsenic (Tsp) Stp	HADFIELD, 101 WEST MAIN, EAST HELENA	Lewis and Clark	01-Jan-1981	31-Dec-1985
049	0719	12110	1	Cadmium (Tsp) Stp	HADFIELD, 101 WEST MAIN, EAST HELENA	Lewis and Clark	01-Oct-1981	31-Dec-1985
049	0719	12110	2	Cadmium (Tsp) Stp	HADFIELD, 101 WEST MAIN, EAST HELENA	Lewis and Clark	01-Jan-1982	31-Dec-1985
049	0719	12114	1	Copper (Tsp) Stp	HADFIELD, 101 WEST MAIN, EAST HELENA	Lewis and Clark	10-Oct-1981	31-Dec-1985
049	0719	12114	2	Copper (Tsp) Stp	HADFIELD, 101 WEST MAIN, EAST HELENA	Lewis and Clark	01-Jan-1982	31-Dec-1985
049	0719	12128	1	Lead (Tsp) Stp	HADFIELD, 101 WEST MAIN, EAST HELENA	Lewis and Clark	01-Jan-1981	18-Jun-1993
049	0719	12128	3	Lead (Tsp) Stp	HADFIELD, 101 WEST MAIN, EAST HELENA	Lewis and Clark	01-Jan-1982	31-Dec-1990
049	0719	12167	2	Zinc (Tsp) Stp	HADFIELD, 101 WEST MAIN, EAST HELENA	Lewis and Clark	01-Jan-1982	31-Dec-1985
049	0719	12167	1	Zinc (Tsp) Stp	HADFIELD, 101 WEST MAIN, EAST HELENA	Lewis and Clark	10-Oct-1981	31-Dec-1985
049	0719	61101	1	Wind Speed	HADFIELD, 101 WEST MAIN, EAST HELENA	Lewis and Clark	01-Jan-1981	31-Dec-1981
049	0719	61102	1	Wind Direction	HADFIELD, 101 WEST MAIN, EAST HELENA	Lewis and Clark	01-Jan-1981	31-Dec-1981
049	0719	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	HADFIELD, 101 WEST MAIN, EAST HELENA	Lewis and Clark	02-Jul-1988	31-Mar-1993
0490719821281Lead PM10 StpHADFIELD, 101 WEST MAIN, EAST HELENALewis and Clark01-Jul0490721611013Wind SpeedASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Dec0490721611023Wind DirectionASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Dec0490721611023Wind DirectionASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Dec0490721611025Wind DirectionASARCO - ZINC PLANT, EAST HELENALewis and Clark01-App0490721611024Wind DirectionASARCO - ZINC PLANT, EAST HELENALewis and Clark01-App0490721611024Wind DirectionASARCO - ZINC PLANT, EAST HELENALewis and Clark01-App0490721611022Wind DirectionASARCO - ZINC PLANT, EAST HELENALewis and Clark01-App0490721611033Resultant SpeedASARCO - ZINC PLANT, EAST HELENALewis and Clark01-App0490721611032Resultant SpeedASARCO - ZINC PLANT, EAST HELENALewis and Clark01-App0490721611043Resultant DirectionASARCO - ZINC PLANT, EAST HELENALewis and Clark01-App0490721611042Resultant DirectionASARCO - ZINC PLANT, EAST HELENALewis and Clark01-App0490721611063Std Dev Hz Wind DirectionASAR	-1988 10-Aug-1991 -1989 30-Jun-1997 -1989 30-Jun-1997							
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0490721611025Wind DirectionASARCO - ZINC PLANT, EAST HELENALewis and Clark01-App0490721611024Wind DirectionASARCO - ZINC PLANT, EAST HELENALewis and Clark01-App0490721611022Wind DirectionASARCO - ZINC PLANT, EAST HELENALewis and Clark01-App0490721611033Resultant SpeedASARCO - ZINC PLANT, EAST HELENALewis and Clark01-App0490721611032Resultant SpeedASARCO - ZINC PLANT, EAST HELENALewis and Clark01-App0490721611043Resultant DirectionASARCO - ZINC PLANT, EAST HELENALewis and Clark01-App0490721611043Resultant DirectionASARCO - ZINC PLANT, EAST HELENALewis and Clark01-App0490721611043Resultant DirectionASARCO - ZINC PLANT, EAST HELENALewis and Clark01-App0490721611063Std Dev Hz Wind DirectionASARCO - ZINC PLANT, EAST HELENALewis and Clark01-App0490721611062Std Dev Hz Wind DirectionASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Dec0490721611062Std Dev Hz Wind DirectionASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Dec0490721611092Vertical Wind SpeedASARCO - ZINC PLANT, EAST HELENALewis and Clark01-App0490721611092 <td>-1989 30-Jun-1997</td>	-1989 30-Jun-1997							
0490721611024Wind DirectionASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Apr0490721611022Wind DirectionASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Dex0490721611033Resultant SpeedASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Apr0490721611032Resultant SpeedASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Apr0490721611043Resultant DirectionASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Apr0490721611043Resultant DirectionASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Apr0490721611042Resultant DirectionASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Apr0490721611063Std Dev Hz Wind DirectionASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Dex0490721611062Std Dev Hz Wind DirectionASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Dex0490721611062Std Dev Hz Wind DirectionASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Dex0490721611092Vertical Wind SpeedASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Dex0490721611093Vertical Wind SpeedASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Apr049072161109 <td< td=""><td>-1993 31-Dec-1994</td></td<>	-1993 31-Dec-1994							
0490721611022Wind DirectionASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Der0490721611033Resultant SpeedASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Apr0490721611032Resultant SpeedASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Apr0490721611043Resultant DirectionASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Apr0490721611043Resultant DirectionASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Apr0490721611063Std Dev Hz Wind DirectionASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Apr0490721611063Std Dev Hz Wind DirectionASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Der0490721611062Std Dev Hz Wind DirectionASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Der0490721611092Vertical Wind SpeedASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Der0490721611092Vertical Wind SpeedASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Apr0490721611093Vertical Wind SpeedASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Apr0490721611093Vertical Wind SpeedASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Apr049072161109 <td>-1993 31-Dec-1994</td>	-1993 31-Dec-1994							
0490721611033Resultant SpeedASARCO - ZINC PLANT, EAST HELENALewis and Clark01-App0490721611032Resultant SpeedASARCO - ZINC PLANT, EAST HELENALewis and Clark01-App0490721611043Resultant DirectionASARCO - ZINC PLANT, EAST HELENALewis and Clark01-App0490721611042Resultant DirectionASARCO - ZINC PLANT, EAST HELENALewis and Clark01-App0490721611063Std Dev Hz Wind DirectionASARCO - ZINC PLANT, EAST HELENALewis and Clark01-App0490721611062Std Dev Hz Wind DirectionASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Dec0490721611062Std Dev Hz Wind DirectionASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Dec0490721611092Vertical Wind SpeedASARCO - ZINC PLANT, EAST HELENALewis and Clark01-App0490721611093Vertical Wind SpeedASARCO - ZINC PLANT, EAST HELENALewis and Clark01-App0490721611093Vertical Wind SpeedASARCO - ZINC PLANT, EAST HELENALewis and Clark01-App0490721611093Vertical Wind SpeedASARCO - ZINC PLANT, EAST HELENALewis and Clark01-App	-1989 30-Jun-1997							
0490721611032Resultant SpeedASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Apr0490721611043Resultant DirectionASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Apr0490721611042Resultant DirectionASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Apr0490721611063Std Dev Hz Wind DirectionASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Apr0490721611062Std Dev Hz Wind DirectionASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Dex0490721611062Std Dev Hz Wind DirectionASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Dex0490721611092Vertical Wind SpeedASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Apr0490721611093Vertical Wind SpeedASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Apr0490721611093Vertical Wind SpeedASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Apr	-1993 01-Jan-1996							
0490721611043Resultant DirectionASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Apr0490721611042Resultant DirectionASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Apr0490721611063Std Dev Hz Wind DirectionASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Dec0490721611062Std Dev Hz Wind DirectionASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Dec0490721611092Vertical Wind DirectionASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Dec0490721611092Vertical Wind SpeedASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Apr0490721611093Vertical Wind SpeedASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Apr0490721611093Vertical Wind SpeedASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Apr	-1993 01-Jan-1996							
0490721611042Resultant DirectionASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Apr0490721611063Std Dev Hz Wind DirectionASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Dex0490721611062Std Dev Hz Wind DirectionASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Dex0490721611092Vertical Wind SpeedASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Apr0490721611093Vertical Wind SpeedASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Apr0490721611093Vertical Wind SpeedASARCO - ZINC PLANT, EAST HELENALewis and Clark01-Apr	-1993 01-Jan-1996							
049       0721       61106       3       Std Dev Hz Wind Direction       ASARCO - ZINC PLANT, EAST HELENA       Lewis and Clark       01-Dec         049       0721       61106       2       Std Dev Hz Wind Direction       ASARCO - ZINC PLANT, EAST HELENA       Lewis and Clark       01-Dec         049       0721       61109       2       Vertical Wind Speed       ASARCO - ZINC PLANT, EAST HELENA       Lewis and Clark       01-Apr         049       0721       61109       3       Vertical Wind Speed       ASARCO - ZINC PLANT, EAST HELENA       Lewis and Clark       01-Apr	-1993 01-Jan-1996							
049       0721       61106       2       Std Dev Hz Wind Direction       ASARCO - ZINC PLANT, EAST HELENA       Lewis and Clark       01-Dev         049       0721       61109       2       Vertical Wind Speed       ASARCO - ZINC PLANT, EAST HELENA       Lewis and Clark       01-Apr         049       0721       61109       3       Vertical Wind Speed       ASARCO - ZINC PLANT, EAST HELENA       Lewis and Clark       01-Apr	-1989 30-Jun-1997							
049     0721     61109     2     Vertical Wind Speed     ASARCO - ZINC PLANT, EAST HELENA     Lewis and Clark     01-Apr       049     0721     61109     3     Vertical Wind Speed     ASARCO - ZINC PLANT, EAST HELENA     Lewis and Clark     01-Apr	-1989 30-Jun-1997							
	-1993 31-Dec-1994							
LOWS AND CALL OF THE AND CONTRACT AND CALLED A CONTRACT AND CALLED	-1993 31-Dec-1994							
049 0721 61110 2 Std Dev Vt Wind Speed ASARCO - ZINC PLANT, EAST HELENA Lewis and Clark 01-Apr	-1993 31-Dec-1994							
049 0721 61110 3 Std Dev Vt Wind Speed ASARCO - ZINC PLANT, EAST HELENA Lewis and Clark 01-Apr	-1993 31-Dec-1994							
049 0721 62101 2 Outdoor Temperature ASARCO - ZINC PLANT, EAST HELENA Lewis and Clark 01-Dec	-1989 30-Jun-1997							
049 0721 62101 4 Outdoor Temperature ASARCO - ZINC PLANT, EAST HELENA Lewis and Clark 01-Apr	-1993 30-Jun-1997							
049 0721 62101 1 Outdoor Temperature ASARCO - ZINC PLANT, EAST HELENA Lewis and Clark 01-Dec	-1989 30-Jun-1997							
049 0721 62101 3 Outdoor Temperature ASARCO - ZINC PLANT, EAST HELENA Lewis and Clark 01-Dec	-1989 30-Jun-1997							
049 0721 62106 2 Temperature Difference ASARCO - ZINC PLANT, EAST HELENA Lewis and Clark 01-Dec	-1989 31-Dec-1991							
049 0721 62106 1 Temperature Difference ASARCO - ZINC PLANT, EAST HELENA Lewis and Clark 01-Dec	-1989 31-Dec-1991							
049 0722 11101 1 Suspended Particulate (Tsp) DARTMAN RANCH, NORTH OF EAST HELENA Lewis and Clark 01-Jar	-1982 31-Dec-1983							
049 0722 12103 1 Arsenic (Tsp) Stp DARTMAN RANCH, NORTH OF EAST HELENA Lewis and Clark 01-Ser	-1982 31-Dec-1983							
049 0722 12110 1 Cadmium (Tsp) Stp DARTMAN RANCH, NORTH OF EAST HELENA Lewis and Clark 01-Jar	-1982 31-Dec-1983							
049 0722 12114 1 Copper (Tsp) Stp DARTMAN RANCH, NORTH OF EAST HELENA Lewis and Clark 01-Jar	-1982 31-Dec-1983							
049 0722 12128 1 Lead (Tsp) Stp DARTMAN RANCH, NORTH OF EAST HELENA Lewis and Clark 01-Jar	-1982 31-Dec-1983							
049 0722 12167 1 Zinc (Tsp) Stp DARTMAN RANCH, NORTH OF EAST HELENA Lewis and Clark 01-Jar	-1982 31-Dec-1983							
049 0724 11101 1 Suspended Particulate (Tsp) DARTMAN FIELD, NORTH OF EAST HELENA Lewis and Clark 01-Jar	-1983 05-Aug-1999							
049 0724 12103 1 Arsenic (Tsp) Stp DARTMAN FIELD, NORTH OF EAST HELENA Lewis and Clark 01-Jur	-1983 31-Dec-1985							
049 0724 12110 1 Cadmium (Tsp) Stp DARTMAN FIELD, NORTH OF EAST HELENA Lewis and Clark 01-Jar	-1983 31-Dec-1985							
049 0724 12114 1 Copper (Tsp) Stp DARTMAN FIELD, NORTH OF EAST HELENA Lewis and Clark 01-Jar								

049	0724	12128	1	Lead (Tsp) Stp	DARTMAN FIELD, NORTH OF EAST HELENA	Lewis and Clark	01-Jun-1983	05-Aug-1999
049	0724	12167	1	Zinc (Tsp) Stp	DARTMAN FIELD, NORTH OF EAST HELENA	Lewis and Clark	01-Jan-1983	31-Dec-1989
049	0724	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	DARTMAN FIELD, NORTH OF EAST HELENA	Lewis and Clark	05-Nov-1987	31-Dec-1989
049	0724	82114	1	Copper PM <sub>10</sub> Stp	DARTMAN FIELD, NORTH OF EAST HELENA	Lewis and Clark	01-Nov-1987	31-Dec-1988
049	0724	82128	1	Lead PM <sub>10</sub> Stp	DARTMAN FIELD, NORTH OF EAST HELENA	Lewis and Clark	01-Nov-1987	31-Dec-1989
049	0726	11101	1	Suspended Particulate (Tsp)	OLD RR,HWY 518,E HELENA	Lewis and Clark	01-Nov-1989	27-Dec-2001
049	0726	12128	1	Lead (Tsp) Stp	OLD RR,HWY 518,E HELENA	Lewis and Clark	01-Nov-1989	27-Dec-2001
049	0726	61101	1	Wind Speed	OLD RR,HWY 518,E HELENA	Lewis and Clark	01-Dec-1989	30-Jun-2002
049	0726	61102	2	Wind Direction	OLD RR,HWY 518,E HELENA	Lewis and Clark	01-Apr-1993	31-Dec-1994
049	0726	61102	1	Wind Direction	OLD RR,HWY 518,E HELENA	Lewis and Clark	01-Dec-1989	30-Jun-2002
049	0726	61103	1	Resultant Speed	OLD RR,HWY 518,E HELENA	Lewis and Clark	01-Apr-1993	01-Jan-1996
049	0726	61104	1	Resultant Direction	OLD RR,HWY 518,E HELENA	Lewis and Clark	01-Apr-1993	01-Jan-1996
049	0726	61106	1	Std Dev Hz Wind Direction	OLD RR,HWY 518,E HELENA	Lewis and Clark	01-Dec-1989	30-Jun-2002
049	0726	61109	1	Vertical Wind Speed	OLD RR,HWY 518,E HELENA	Lewis and Clark	01-Apr-1993	31-Dec-1994
049	0726	61110	1	Std Dev Vt Wind Speed	OLD RR,HWY 518,E HELENA	Lewis and Clark	01-Apr-1993	31-Dec-1994
049	0726	62101	1	Outdoor Temperature	OLD RR,HWY 518,E HELENA	Lewis and Clark	01-Dec-1989	30-Jun-2002
049	0727	11101	1	Suspended Particulate (Tsp)	PRICKLY PEAR CRK, 21 EAST PACIFIC	Lewis and Clark	27-Nov-1993	31-Dec-2001
049	0727	12114	1	Copper (Tsp) Stp	PRICKLY PEAR CRK, 21 EAST PACIFIC	Lewis and Clark	08-May-1994	31-Dec-2001
049	0727	12128	1	Lead (Tsp) Stp	PRICKLY PEAR CRK, 21 EAST PACIFIC	Lewis and Clark	27-Nov-1993	31-Dec-2001
049	0901	42401	2	Sulfur Dioxide	DEACONESS HILL	Lewis and Clark	01-Jan-1973	31-Dec-1975
049	0901	42401	1	Sulfur Dioxide	DEACONESS HILL	Lewis and Clark	01-Jan-1973	31-Dec-1974
049	1002	11101	1	Suspended Particulate (Tsp)	HASTIE RESIDENCE, 212 PACIFIC ST	Lewis and Clark	01-Jan-1974	31-Dec-1985
049	1002	12101	1	Aluminum (Tsp) Stp	HASTIE RESIDENCE, 212 PACIFIC ST	Lewis and Clark	01-Jan-1978	31-Dec-1979
049	1002	12103	1	Arsenic (Tsp) Stp	HASTIE RESIDENCE, 212 PACIFIC ST	Lewis and Clark	01-Jan-1978	31-Dec-1985
049	1002	12110	1	Cadmium (Tsp) Stp	HASTIE RESIDENCE, 212 PACIFIC ST	Lewis and Clark	01-Jan-1978	31-Dec-1985
049	1002	12112	1	Chromium (Tsp) Stp	HASTIE RESIDENCE, 212 PACIFIC ST	Lewis and Clark	01-Jan-1978	31-Dec-1981
049	1002	12114	1	Copper (Tsp) Stp	HASTIE RESIDENCE, 212 PACIFIC ST	Lewis and Clark	06-Sep-1978	31-Dec-1985
049	1002	12126	1	Iron (Tsp) Stp	HASTIE RESIDENCE, 212 PACIFIC ST	Lewis and Clark	01-Jan-1978	31-Dec-1981
049	1002	12128	1	Lead (Tsp) Stp	HASTIE RESIDENCE, 212 PACIFIC ST	Lewis and Clark	01-Jan-1977	31-Dec-1985
049	1002	12132	1	Manganese (Tsp) Stp	HASTIE RESIDENCE, 212 PACIFIC ST	Lewis and Clark	01-Jan-1978	31-Dec-1980
049	1002	12136	1	Nickel (Tsp) Stp	HASTIE RESIDENCE, 212 PACIFIC ST	Lewis and Clark	01-Jan-1978	31-Dec-1980
049	1002	12164	1	Vanadium (Tsp) Stp	HASTIE RESIDENCE, 212 PACIFIC ST	Lewis and Clark	01-Jan-1978	31-Dec-1980
049	1002	12167	1	Zinc (Tsp) Stp	HASTIE RESIDENCE, 212 PACIFIC ST	Lewis and Clark	06-Sep-1978	31-Dec-1985

049	1002	12306	1	Nitrate (Tsp) Stp	HASTIE RESIDENCE, 212 PACIFIC ST	Lewis and Clark	01-Jan-1977	31-Dec-1977
049	1002	12306	2	Nitrate (Tsp) Stp	HASTIE RESIDENCE, 212 PACIFIC ST	Lewis and Clark	01-Jan-1978	31-Dec-1980
049	1002	12403	1	Sulfate (Tsp) Stp	HASTIE RESIDENCE, 212 PACIFIC ST	Lewis and Clark	01-Jan-1977	31-Dec-1980
049	1002	42410	1	Sulfation Rate	HASTIE RESIDENCE, 212 PACIFIC ST	Lewis and Clark	01-Jan-1978	31-Dec-1981
049	9000	11208	2	Deciview	Gates of the Mountains	Lewis and Clark	03-Sep-2003	
049	9000	11208	1	Deciview	Gates of the Mountains	Lewis and Clark	26-Jul-2000	
049	9000	42401	1	Sulfur Dioxide	Gates of the Mountains	Lewis and Clark	26-Jul-2000	
049	9000	42401	2	Sulfur Dioxide	Gates of the Mountains	Lewis and Clark	03-Sep-2003	
049	9000	62201	1	Relative Humidity	Gates of the Mountains	Lewis and Clark	26-Jul-2000	
049	9000	62202	1	Relative Humidity Factor	Gates of the Mountains	Lewis and Clark	26-Jul-2000	
049	9000	63102	2	Light Absorption Coeffiecient	Gates of the Mountains	Lewis and Clark	01-Jan-2005	
049	9000	63102	1	Light Absorption Coeffiecient	Gates of the Mountains	Lewis and Clark	26-Jul-2000	
049	9000	81103	1	Pm 10 <sub>2.5</sub> Stp	Gates of the Mountains	Lewis and Clark	01-Jan-2005	
049	9000	84203	1	Chloride PM <sub>2.5</sub> Stp	Gates of the Mountains	Lewis and Clark	26-Jul-2000	
049	9000	84306	1	Nitrate PM <sub>2.5</sub> Stp	Gates of the Mountains	Lewis and Clark	01-Jan-2006	
049	9000	84306	2	Nitrate PM <sub>2.5</sub> Stp	Gates of the Mountains	Lewis and Clark	01-Jan-2006	
049	9000	85101	1	PM <sub>10</sub> - Lc	Gates of the Mountains	Lewis and Clark	26-Jul-2000	
049	9000	85101	2	PM <sub>10</sub> - Lc	Gates of the Mountains	Lewis and Clark	03-Sep-2003	
049	9000	86502	1	Acceptable PM <sub>102.5</sub> LC	Gates of the Mountains	Lewis and Clark	26-Jul-2000	
049	9000	86502	2	Acceptable PM <sub>102.5</sub> LC	Gates of the Mountains	Lewis and Clark	01-Jan-2006	
049	9000	88103	1	Arsenic PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	26-Jul-2000	
049	9000	88103	2	Arsenic PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	03-Sep-2003	
049	9000	88104	1	Aluminum PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	26-Jul-2000	
049	9000	88104	2	Aluminum PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	03-Sep-2003	
049	9000	88109	1	Bromine PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	26-Jul-2000	
049	9000	88109	2	Bromine PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	03-Sep-2003	
049	9000	88111	1	Calcium PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	26-Jul-2000	
049	9000	88111	2	Calcium PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	03-Sep-2003	
049	9000	88112	2	Chromium PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	03-Sep-2003	
049	9000	88112	1	Chromium PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	26-Jul-2000	
049	9000	88114	1	Copper PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	26-Jul-2000	
049	9000	88114	2	Copper PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	03-Sep-2003	
049	9000	88115	2	Chlorine PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	03-Sep-2003	

049	9000	88115	1	Chlorine PM <sub>2.5</sub> I c	Gates of the Mountains	Lewis and Clark	26-Jul-2000
0/0	9000	88126	1		Gates of the Mountains	Lewis and Clark	26- Jul-2000
040	9000	88126	2		Gates of the Mountains	Lewis and Clark	03 Sep 2003
049	9000	00120	1		Cates of the Mountains		26 Jul 2000
049	9000	99120	2		Gates of the Mountains		03 Sop 2003
040	0000	00120	4		Cates of the Mountains		
049	9000	88132	1		Gates of the Mountains	Lewis and Clark	26-Jul-2000
049	9000	88132	2	Manganese PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	03-Sep-2003
049	9000	88136	1	Nickel PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	26-Jul-2000
049	9000	88136	2	Nickel PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	03-Sep-2003
049	9000	88140	1	Magnesium PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	26-Jul-2000
049	9000	88140	2	Magnesium PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	03-Sep-2003
049	9000	88152	2	Phosphorus PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	03-Sep-2003
049	9000	88152	1	Phosphorus PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	26-Jul-2000
049	9000	88154	2	Selenium PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	03-Sep-2003
049	9000	88154	1	Selenium PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	26-Jul-2000
049	9000	88161	2	Titanium PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	03-Sep-2003
049	9000	88161	1	Titanium PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	26-Jul-2000
049	9000	88164	2	Vanadium PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	03-Sep-2003
049	9000	88164	1	Vanadium PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	26-Jul-2000
049	9000	88165	1	Silicon PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	26-Jul-2000
049	9000	88165	2	Silicon PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	03-Sep-2003
049	9000	88167	2	Zinc PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	03-Sep-2003
049	9000	88167	1	Zinc PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	26-Jul-2000
049	9000	88168	2	Strontium PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	03-Sep-2003
049	9000	88168	1	Strontium PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	26-Jul-2000
049	9000	88169	2	Sulfur PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	03-Sep-2003
049	9000	88169	1	Sulfur PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	26-Jul-2000
049	9000	88176	2	Rubidium PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	03-Sep-2003
049	9000	88176	1	Rubidium PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	26-Jul-2000
049	9000	88180	2	Potassium PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	03-Sep-2003
049	9000	88180	1	Potassium PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	26-Jul-2000
049	9000	88184	1	Sodium PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	26-Jul-2000
049	9000	88184	2	Sodium PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	03-Sep-2003

049	9000	88185	2	Zirconium PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	03-Sep-2003
049	9000	88185	1	Zirconium PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	26-Jul-2000
049	9000	88203	1	Chloride PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	26-Jul-2000
049	9000	88203	2	Chloride PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	03-Sep-2003
049	9000	88301	2	Ammonium Ion PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	03-Sep-2003
049	9000	88301	1	Ammonium Ion PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	26-Jul-2000
049	9000	88306	1	Total Nitrate PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	26-Jul-2000
049	9000	88306	2	Total Nitrate PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	03-Sep-2003
049	9000	88307	1	Ec Csn PM <sub>2.5</sub> LC	Gates of the Mountains	Lewis and Clark	26-Jul-2000
049	9000	88320	2	Oc PM <sub>2.5</sub> Lc Tor	Gates of the Mountains	Lewis and Clark	01-Jan-2006
049	9000	88320	1	Oc PM <sub>2.5</sub> Lc Tor	Gates of the Mountains	Lewis and Clark	26-Jul-2000
049	9000	88321	2	Ec PM <sub>2.5</sub> Lc Tor	Gates of the Mountains	Lewis and Clark	01-Jan-2006
049	9000	88321	1	Ec PM <sub>2.5</sub> Lc Tor	Gates of the Mountains	Lewis and Clark	01-Jan-2005
049	9000	88328	1	Op PM <sub>2.5</sub> Lc Tor	Gates of the Mountains	Lewis and Clark	01-Jan-2005
049	9000	88328	2	Op PM <sub>2.5</sub> Lc Tor	Gates of the Mountains	Lewis and Clark	01-Jan-2005
049	9000	88329	1	Ec1 PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	26-Jul-2000
049	9000	88329	2	Ec1 PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	03-Sep-2003
049	9000	88330	1	Ec2 PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	26-Jul-2000
049	9000	88330	2	Ec2 PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	03-Sep-2003
049	9000	88331	2	Ec3 PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	03-Sep-2003
049	9000	88331	1	Ec3 PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	26-Jul-2000
049	9000	88332	1	Oc1 Csn Unadj PM <sub>2.5</sub> LC	Gates of the Mountains	Lewis and Clark	26-Jul-2000
049	9000	88332	2	Oc1 Csn Unadj PM <sub>2.5</sub> LC	Gates of the Mountains	Lewis and Clark	03-Sep-2003
049	9000	88333	2	Oc2 Csn Unadj PM <sub>2.5</sub> LC	Gates of the Mountains	Lewis and Clark	03-Sep-2003
049	9000	88333	1	Oc2 Csn Unadj PM <sub>2.5</sub> LC	Gates of the Mountains	Lewis and Clark	26-Jul-2000
049	9000	88334	2	Oc3 Csn Unadj PM <sub>2.5</sub> LC	Gates of the Mountains	Lewis and Clark	03-Sep-2003
049	9000	88334	1	Oc3 Csn Unadj PM <sub>2.5</sub> LC	Gates of the Mountains	Lewis and Clark	26-Jul-2000
049	9000	88335	1	Oc4 Csn Unadj PM <sub>2.5</sub> LC	Gates of the Mountains	Lewis and Clark	26-Jul-2000
049	9000	88335	2	Oc4 Csn Unadj PM <sub>2.5</sub> LC	Gates of the Mountains	Lewis and Clark	03-Sep-2003
049	9000	88336	1	Op Csn PM <sub>2.5</sub> LC	Gates of the Mountains	Lewis and Clark	26-Jul-2000
049	9000	88336	2	Op Csn PM <sub>2.5</sub> LC	Gates of the Mountains	Lewis and Clark	03-Sep-2003
049	9000	88337	2	Hydrogen PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	03-Sep-2003
049	9000	88337	1	Hydrogen PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	26-Jul-2000

049	9000	88338	2	Nitrite PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	03-Sep-2003	
049	9000	88338	1	Nitrite PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	26-Jul-2000	
049	9000	88339	1	NH4NO3 PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	26-Jul-2000	
049	9000	88339	2	NH4NO3 PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	01-Jan-2006	
049	9000	88340	1	NH4NO3 Extinct.PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	26-Jul-2000	
049	9000	88341	1	Aerosol Extinct.PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	26-Jul-2000	
049	9000	88342	1	Coar. Mass Extinct.PM25 Lc	Gates of the Mountains	Lewis and Clark	26-Jul-2000	
049	9000	88343	1	EC Extinct.PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	26-Jul-2000	
049	9000	88344	2	NH4NO3 PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	01-Jan-2006	
049	9000	88344	1	NH4NO3 PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	26-Jul-2000	
049	9000	88345	1	NH4NO3 Extinct. PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	26-Jul-2000	
049	9000	88346	1	OC Extinct.PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	26-Jul-2000	
049	9000	88348	1	Soil PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	26-Jul-2000	
049	9000	88348	2	Soil PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	01-Jan-2006	
049	9000	88349	1	Soil Extinct.PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	26-Jul-2000	
049	9000	88350	1	OC Mass PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	26-Jul-2000	
049	9000	88350	2	OC Mass PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	01-Jan-2007	
049	9000	88395	2	Sea Salt (PM <sub>2.5</sub> )	Gates of the Mountains	Lewis and Clark	01-Jan-2007	
049	9000	88395	1	Sea Salt (PM <sub>2.5</sub> )	Gates of the Mountains	Lewis and Clark	01-Jan-2007	
049	9000	88401	1	Reconstruct.Mass PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	26-Jul-2000	
049	9000	88403	1	Sulfate PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	26-Jul-2000	
049	9000	88403	2	Sulfate PM <sub>2.5</sub> Lc	Gates of the Mountains	Lewis and Clark	03-Sep-2003	
049	9000	88502	2	Accpt.PM25 AQI Spec.Mass	Gates of the Mountains	Lewis and Clark	03-Sep-2003	
049	9000	88502	1	Accpt.PM25 AQI Spec.Mass	Gates of the Mountains	Lewis and Clark	26-Jul-2000	
053	0001	11101	1	Suspended Particulate (Tsp)	JACK BROWN RESIDENCE TROY, MONTANA	Lincoln	01-Jan-1977	31-Dec-1978
053	0002	11101	1	Suspended Particulate (Tsp)	RAY SAMPSON RESIDENCE SOUTH OF TROY	Lincoln	01-Jan-1977	31-Dec-1978
053	0004	11101	1	Suspended Particulate (Tsp)	ASARCO-TROY,LITTLE JOE,TROY	Lincoln	01-Jan-1982	31-Dec-1990
053	0005	11101	1	Suspended Particulate (Tsp)	REUTER RESIDENCE	Lincoln	01-Jan-1972	31-Dec-1973
053	0005	12110	1	Cadmium (Tsp) Stp	REUTER RESIDENCE	Lincoln	01-Jan-1972	31-Dec-1972
053	0005	12128	1	Lead (Tsp) Stp	REUTER RESIDENCE	Lincoln	01-Jan-1972	31-Dec-1972
053	0005	12167	1	Zinc (Tsp) Stp	REUTER RESIDENCE	Lincoln	01-Jan-1972	31-Dec-1972
053	0006	21101	1	Total Dustfall (Sp)	BURRIS RESIDENCE, SOUTH OF TROY	Lincoln	01-Jan-1984	31-Dec-1985
053	0007	11101	1	Suspended Particulate (Tsp)	KENDALL FIELD, FARM TO MARKET ROAD	Lincoln	09-May-1987	31-Dec-1987

053	0007	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	KENDALL FIELD, FARM TO MARKET ROAD	Lincoln	01-Nov-1987	31-Dec-1988
053	0009	11101	1	Suspended Particulate (Tsp)	SVERDRUP RESIDENCE, 120 LARCH	Lincoln	01-Jan-1974	31-Dec-1977
053	0010	11101	1	Suspended Particulate (Tsp)	BROWN RESIDENCE, 1119 DAKOTA	Lincoln	01-Jan-1977	31-Dec-1985
053	0010	12306	1	Nitrate (Tsp) Stp	BROWN RESIDENCE, 1119 DAKOTA	Lincoln	01-Jan-1979	31-Dec-1980
053	0010	12403	1	Sulfate (Tsp) Stp	BROWN RESIDENCE, 1119 DAKOTA	Lincoln	01-Jan-1979	31-Dec-1982
053	0012	11101	3	Suspended Particulate (Tsp)	LINCOLN CO COURTHOUSE,418 MINERAL AVE	Lincoln	01-Jan-1984	31-Dec-1987
053	0012	11101	1	Suspended Particulate (Tsp)	LINCOLN CO COURTHOUSE,418 MINERAL AVE	Lincoln	01-Jan-1983	31-Dec-1987
053	0012	81102	2	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	LINCOLN CO COURTHOUSE,418 MINERAL AVE	Lincoln	21-Apr-1987	31-Mar-1995
053	0012	81102	3	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	LINCOLN CO COURTHOUSE,418 MINERAL AVE	Lincoln	01-Jan-1985	31-Dec-1987
053	0012	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	LINCOLN CO COURTHOUSE,418 MINERAL AVE	Lincoln	13-May-1985	31-Dec-1987
053	0012	81102	4	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	LINCOLN CO COURTHOUSE,418 MINERAL AVE	Lincoln	16-Apr-1987	31-Dec-1990
053	0013	11203	1	Light Scatter	RIVER SITE, LIBBY, MT	Lincoln	01-Jan-1985	31-Dec-1986
053	0017	21101	1	Total Dustfall (Sp)	HORELICK 707 MICHIGAN AVE LIBBY MT	Lincoln	01-Jan-1985	31-May-1993
053	0017	25101	1	Dustfall Combustible (Sp)	HORELICK 707 MICHIGAN AVE LIBBY MT	Lincoln	01-Jan-1985	31-May-1993
053	0018	11203	1	Light Scatter	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	19-Dec-1986	06-Oct-1993
053	0018	61101	1	Wind Speed	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	01-Nov-1987	31-Dec-1988
053	0018	61102	1	Wind Direction	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	01-Nov-1987	31-Dec-1988
053	0018	61106	1	Std Dev Hz Wind Direction	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	06-Jul-1988	03-Dec-1988
053	0018	68101	2	Sample Flow Rate- Cv	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	01-Jan-2002	01-Jan-2007
053	0018	68101	1	Sample Flow Rate- Cv	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	01-Jan-1999	01-Jan-2007
053	0018	68102	2	Sample Volume	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	01-Jan-2002	01-Jan-2007
053	0018	68102	1	Sample Volume	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	01-Jan-1999	01-Jan-2007
053	0018	68103	2	Ambient Min Temperature	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	01-Jan-2002	01-Jan-2007
053	0018	68103	1	Ambient Min Temperature	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	01-Jan-1999	01-Jan-2007
053	0018	68103	5	Ambient Min Temperature	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	68104	1	Ambient Max Temperature	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	01-Jan-1999	01-Jan-2007
053	0018	68104	2	Ambient Max Temperature	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	01-Jan-2002	01-Jan-2007
053	0018	68104	5	Ambient Max Temperature	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	68105	5	Ambient Temperature	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	68105	2	Ambient Temperature	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	01-Jan-2002	
053	0018	68105	1	Ambient Temperature	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	01-Jan-1999	
053	0018	68106	1	Sample Min Baro Pressure	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	01-Jan-1999	01-Jan-2007
053	0018	68106	2	Sample Min Baro Pressure	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	01-Jan-2002	01-Jan-2007

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053	0018	68106	5	Sample Min Baro Pressure	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	68107	1	Sample Max Baro Pressure	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	01-Jan-1999	01-Jan-2007
053	0018	68107	5	Sample Max Baro Pressure	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	68107	2	Sample Max Baro Pressure	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	01-Jan-2002	01-Jan-2007
053	0018	68108	2	Sample Baro Pressure	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	01-Jan-2002	
053	0018	68108	1	Sample Baro Pressure	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	01-Jan-1999	
053	0018	68108	5	Sample Baro Pressure	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	68109	1	Elapsed Sample Time	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	01-Jan-1999	01-Jan-2007
053	0018	68109	2	Elapsed Sample Time	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	01-Jan-2002	01-Jan-2007
053	0018	81102	2	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	05-Oct-2002	31-Mar-2008
053	0018	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	08-Oct-1993	
053	0018	85101	1	PM <sub>10</sub> - Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	01-Jan-2000	31-Dec-2008
053	0018	85101	2	PM <sub>10</sub> - Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	05-Oct-2002	31-Mar-2008
053	0018	86502	1	Acceptable PM <sub>102.5</sub> LC	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	05-Oct-2002	01-Apr-2008
053	0018	88101	1	PM <sub>2.5</sub> - Local Conditions	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	01-Jan-1999	
053	0018	88101	2	PM <sub>2.5</sub> - Local Conditions	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	01-Jan-2002	
053	0018	88102	5	Antimony PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88103	5	Arsenic PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88104	5	Aluminum PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88107	5	Barium PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88109	5	Bromine PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88110	5	Cadmium PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88111	5	Calcium PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88112	5	Chromium PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88113	5	Cobalt PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88114	5	Copper PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88115	5	Chlorine PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88117	5	Cerium PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88118	5	Cesium PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88121	5	Europium PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88124	5	Gallium PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88126	5	Iron PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88127	5	Hafnium PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008

053	0018	88128	5	Lead PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88131	5	Indium PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88132	5	Manganese PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88133	5	Iridium PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88134	5	Molybdenum PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88136	5	Nickel PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88140	5	Magnesium PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88142	5	Mercury PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88143	5	Gold PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88146	5	Lanthanum PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88147	5	Niobium PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88152	5	Phosphorus PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88154	5	Selenium PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88160	5	Tin PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88161	5	Titanium PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88162	5	Samarium PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88163	5	Scandium PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88164	5	Vanadium PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88165	5	Silicon PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88166	5	Silver PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88167	5	Zinc PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88168	5	Strontium PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88169	5	Sulfur PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88170	5	Tantalum PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88172	5	Terbium PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88176	5	Rubidium PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88180	5	Potassium PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88183	5	Yttrium PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88184	5	Sodium PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88185	5	Zirconium PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88186	5	Tungsten PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88301	5	Ammonium Ion PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88302	5	Sodium Ion PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008

053	0018	88303	5	Potassium Ion PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88305	5	Oc Csn Unadj PM <sub>2.5</sub> LC	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88306	5	Total Nitrate PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88307	5	Ec Csn PM <sub>2.5</sub> LC	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88308	5	Carbonate C Csn PM <sub>2.5</sub> LC	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	15-Jul-2003
053	0018	88311	5	Ocx2 Carbon PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	15-Jul-2003
053	0018	88332	5	Oc1 Csn Unadj PM <sub>2.5</sub> LC	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	20-Jul-2003	29-Jun-2008
053	0018	88333	5	Oc2 Csn Unadj PM <sub>2.5</sub> LC	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	20-Jul-2003	29-Jun-2008
053	0018	88334	5	Oc3 Csn Unadj PM <sub>2.5</sub> LC	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	20-Jul-2003	29-Jun-2008
053	0018	88335	5	Oc4 Csn Unadj PM <sub>2.5</sub> LC	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	20-Jul-2003	29-Jun-2008
053	0018	88336	5	Op Csn PM <sub>2.5</sub> LC	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	20-Jul-2003	29-Jun-2008
053	0018	88403	5	Sulfate PM <sub>2.5</sub> Lc	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88502	5	Accpt.PM25 AQI Spec.Mass	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	13-Feb-2002	29-Jun-2008
053	0018	88502	3	Accpt.PM25 AQI Spec.Mass	COUNTY COURTHOUSE ANNEX - LIBBY	Lincoln	10-Nov-2005	
053	0019	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	TROY HIGH SCHOOL, 116 E MISSOULA, TROY	Lincoln	01-Oct-1991	30-Jun-1995
053	1005	11101	1	Suspended Particulate (Tsp)	LINCOLN ELEC CO-OP, HWY 93 NEAR EUREKA	Lincoln	01-Jan-1984	31-Dec-1987
053	1005	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	LINCOLN ELEC CO-OP, HWY 93 NEAR EUREKA	Lincoln	30-Oct-1987	31-Dec-1992
055	0001	11101	2	Suspended Particulate (Tsp)	TV HILL (FORT PECK)	McCone	01-Jan-1974	31-Dec-1979
055	0001	11101	1	Suspended Particulate (Tsp)	TV HILL (FORT PECK)	McCone	01-Jan-1974	31-Dec-1979
055	0001	42401	2	Sulfur Dioxide	TV HILL (FORT PECK)	McCone	01-Jan-1974	31-Dec-1975
055	0001	42401	1	Sulfur Dioxide	TV HILL (FORT PECK)	McCone	01-Jan-1976	31-Dec-1977
055	0001	42602	1	Nitrogen Dioxide	TV HILL (FORT PECK)	McCone	01-Jan-1976	31-Dec-1978
055	0001	42602	2	Nitrogen Dioxide	TV HILL (FORT PECK)	McCone	01-Jan-1974	31-Dec-1975
055	0001	61101	1	Wind Speed	TV HILL (FORT PECK)	McCone	01-Jan-1978	31-Dec-1979
055	0001	61102	1	Wind Direction	TV HILL (FORT PECK)	McCone	01-Jan-1978	31-Dec-1979
055	0002	61101	1	Wind Speed	NELSON CREEK	McCone	01-May-2004	30-Jun-2005
055	0002	61102	1	Wind Direction	NELSON CREEK	McCone	01-May-2004	30-Jun-2005
055	0002	61106	1	Std Dev Hz Wind Direction	NELSON CREEK	McCone	01-May-2004	30-Jun-2005
055	0002	62101	2	Outdoor Temperature	NELSON CREEK	McCone	01-May-2004	30-Jun-2005
055	0002	62101	1	Outdoor Temperature	NELSON CREEK	McCone	01-May-2004	30-Jun-2005
055	0002	62106	1	Temperature Difference	NELSON CREEK	McCone	01-May-2004	30-Jun-2005
055	0002	63301	1	Solar Radiation	NELSON CREEK	McCone	01-May-2004	30-Jun-2005
055	0002	65102	1	Rain/Melt Precipitation	NELSON CREEK	McCone	01-May-2004	30-Jun-2005

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055	0002	81102	2	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	NELSON CREEK	McCone	03-May-2004	30-Jun-2005
055	0002	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	NELSON CREEK	McCone	03-May-2004	30-Jun-2005
055	0002	85101	1	PM <sub>10</sub> - Lc	NELSON CREEK	McCone	03-May-2004	30-Jun-2005
055	0002	85101	2	PM <sub>10</sub> - Lc	NELSON CREEK	McCone	03-May-2004	30-Jun-2005
057	0001	11101	2	Suspended Particulate (Tsp)	CYPRUS IND-YELLOWSTONE MINE #1,THREE FK	Madison	01-Jan-1983	31-Dec-1984
057	0001	11101	1	Suspended Particulate (Tsp)	CYPRUS IND-YELLOWSTONE MINE #1, THREE FK	Madison	01-Jan-1984	31-Dec-1989
057	0003	11101	1	Suspended Particulate (Tsp)	CYPRUS IND-YELLOWSTONE MINE #3, THREE FK	Madison	01-Jan-1983	31-Dec-1984
057	0003	61101	1	Wind Speed	CYPRUS IND-YELLOWSTONE MINE #3, THREE FK	Madison	01-Jan-1984	31-Dec-1984
057	0003	61102	1	Wind Direction	CYPRUS IND-YELLOWSTONE MINE #3, THREE FK	Madison	01-Jan-1984	31-Dec-1984
057	0003	62101	1	Outdoor Temperature	CYPRUS IND-YELLOWSTONE MINE #3, THREE FK	Madison	01-Jan-1984	31-Dec-1984
057	0004	11101	1	Suspended Particulate (Tsp)	MONTANA TALC, JOHNNY GULCH NO. 1, ENNIS	Madison	22-Oct-1985	31-Dec-1989
057	0004	11101	2	Suspended Particulate (Tsp)	MONTANA TALC, JOHNNY GULCH NO. 1, ENNIS	Madison	01-Oct-1985	31-Dec-1986
057	0004	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	MONTANA TALC, JOHNNY GULCH NO. 1, ENNIS	Madison	28-Apr-1989	01-Jul-1993
057	0005	11101	1	Suspended Particulate (Tsp)	MONTANA TALC UPWIND HIVOL, ENNIS	Madison	07-Feb-1986	01-Sep-1989
057	0005	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	MONTANA TALC UPWIND HIVOL, ENNIS	Madison	28-Apr-1989	30-Sep-1995
057	0006	61101	1	Wind Speed	MONTANA TALC MET TRAILER, ENNIS	Madison	01-Sep-1985	04-Sep-1995
057	0006	61102	1	Wind Direction	MONTANA TALC MET TRAILER, ENNIS	Madison	01-Sep-1985	04-Sep-1995
057	0006	61106	1	Std Dev Hz Wind Direction	MONTANA TALC MET TRAILER, ENNIS	Madison	30-Nov-1993	04-Sep-1995
057	0007	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	LUZENAC UPWIND SOUTH;12 M S OF CAMERON	Madison	28-Nov-1989	31-Dec-1997
057	0007	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	LUZENAC UPWIND SOUTH;12 M S OF CAMERON	Madison	01-Oct-2001	30-Sep-2003
057	0007	85101	1	PM <sub>10</sub> - Lc	LUZENAC UPWIND SOUTH;12 M S OF CAMERON	Madison	01-Jan-1998	30-Sep-2003
057	0008	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	LUZENAC DOWNWIND NORTH;CAMERSON	Madison	01-Oct-2001	30-Sep-2003
057	0008	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	LUZENAC DOWNWIND NORTH;CAMERSON	Madison	28-Nov-1989	31-Dec-1997
057	0008	85101	1	PM <sub>10</sub> - Lc	LUZENAC DOWNWIND NORTH;CAMERSON	Madison	01-Jan-1998	30-Sep-2003
057	0009	61101	1	Wind Speed	YELLOWSTONE MINE-MET STATION, ENNIS	Madison	06-Dec-1989	30-Sep-1995
057	0009	61102	1	Wind Direction	YELLOWSTONE MINE-MET STATION, ENNIS	Madison	06-Dec-1989	30-Sep-1995
057	0009	61106	1	Std Dev Hz Wind Direction	YELLOWSTONE MINE-MET STATION, ENNIS	Madison	06-Dec-1989	30-Sep-1995
057	0009	62101	1	Outdoor Temperature	YELLOWSTONE MINE-MET STATION, ENNIS	Madison	06-Dec-1989	30-Sep-1995
061	0001	21101	1	Total Dustfall (Sp)	COX RESIDENCE, SAINT REGIS, MT 59866	Mineral	01-Jan-1986	31-Dec-1989
061	0001	25101	1	Dustfall Combustible (Sp)	COX RESIDENCE, SAINT REGIS, MT 59866	Mineral	01-Jan-1986	31-Dec-1989
063	0001	11101	2	Suspended Particulate (Tsp)	County Courthouse Roof, Woody & W.Pine	Missoula	01-Jan-1982	31-Dec-1983
063	0001	11101	1	Suspended Particulate (Tsp)	County Courthouse Roof, Woody & W.Pine	Missoula	01-Jan-1968	31-Dec-1984
063	0001	11103	1	Benzene Sol.Organics(TSP)	County Courthouse Roof, Woody & W.Pine	Missoula	01-Jan-1971	31-Dec-1977

063	0001	12101	1	Aluminum (Tsp) Stp	County Courthouse Roof, Woody & W.Pine	Missoula	01-Jan-1978	31-Dec-1978
063	0001	12103	1	Arsenic (Tsp) Stp	County Courthouse Roof, Woody & W.Pine	Missoula	01-Jan-1978	31-Dec-1980
063	0001	12110	1	Cadmium (Tsp) Stp	County Courthouse Roof, Woody & W.Pine	Missoula	01-Jan-1978	31-Dec-1980
063	0001	12112	1	Chromium (Tsp) Stp	County Courthouse Roof, Woody & W.Pine	Missoula	01-Jan-1978	31-Dec-1980
063	0001	12114	1	Copper (Tsp) Stp	County Courthouse Roof, Woody & W.Pine	Missoula	01-Jan-1978	31-Dec-1980
063	0001	12126	1	Iron (Tsp) Stp	County Courthouse Roof, Woody & W.Pine	Missoula	01-Jan-1978	31-Dec-1978
063	0001	12128	1	Lead (Tsp) Stp	County Courthouse Roof, Woody & W.Pine	Missoula	01-Jan-1978	31-Dec-1980
063	0001	12132	1	Manganese (Tsp) Stp	County Courthouse Roof, Woody & W.Pine	Missoula	01-Jan-1978	31-Dec-1980
063	0001	12136	1	Nickel (Tsp) Stp	County Courthouse Roof, Woody & W.Pine	Missoula	01-Jan-1978	31-Dec-1980
063	0001	12164	1	Vanadium (Tsp) Stp	County Courthouse Roof, Woody & W.Pine	Missoula	01-Jan-1979	31-Dec-1980
063	0001	12167	1	Zinc (Tsp) Stp	County Courthouse Roof, Woody & W.Pine	Missoula	01-Jan-1978	31-Dec-1978
063	0001	12306	1	Nitrate (Tsp) Stp	County Courthouse Roof, Woody & W.Pine	Missoula	01-Jan-1978	31-Dec-1980
063	0001	12403	2	Sulfate (Tsp) Stp	County Courthouse Roof, Woody & W.Pine	Missoula	01-Jan-1971	31-Dec-1976
063	0001	12403	1	Sulfate (Tsp) Stp	County Courthouse Roof, Woody & W.Pine	Missoula	01-Jan-1977	31-Dec-1983
063	0001	42401	1	Sulfur Dioxide	County Courthouse Roof, Woody & W.Pine	Missoula	01-Jan-1975	31-Dec-1976
063	0001	42602	1	Nitrogen Dioxide	County Courthouse Roof, Woody & W.Pine	Missoula	01-Jan-1975	31-Dec-1976
063	0002	11101	1	Suspended Particulate (Tsp)	FT MISSOULA	Missoula	01-Jan-1971	31-Dec-1973
063	0002	11103	1	Benzene Sol.Organics(TSP)	FT MISSOULA	Missoula	01-Jan-1971	31-Dec-1973
063	0002	12403	1	Sulfate (Tsp) Stp	FT MISSOULA	Missoula	01-Jan-1971	31-Dec-1973
063	0003	42101	1	Carbon Monoxide	BROOK AND SOUTH	Missoula	01-Jan-1977	31-Dec-1978
063	0005	42101	1	Carbon Monoxide	MALFUNCTION JCT, SOUTH, BROOKS & RUSSELL	Missoula	01-Oct-2000	31-Mar-2001
063	0005	42101	1	Carbon Monoxide	MALFUNCTION JCT, SOUTH, BROOKS & RUSSELL	Missoula	01-Oct-2008	31-Mar-2009
063	0005	42101	1	Carbon Monoxide	MALFUNCTION JCT, SOUTH, BROOKS & RUSSELL	Missoula	01-Oct-2005	31-Mar-2006
063	0005	42101	1	Carbon Monoxide	MALFUNCTION JCT, SOUTH, BROOKS & RUSSELL	Missoula	01-Oct-2004	31-Mar-2005
063	0005	42101	1	Carbon Monoxide	MALFUNCTION JCT, SOUTH, BROOKS & RUSSELL	Missoula	01-Oct-2006	31-Mar-2007
063	0005	42101	1	Carbon Monoxide	MALFUNCTION JCT, SOUTH, BROOKS & RUSSELL	Missoula	01-Oct-2001	31-Mar-2002
063	0005	42101	1	Carbon Monoxide	MALFUNCTION JCT, SOUTH, BROOKS & RUSSELL	Missoula	01-Oct-2003	31-Mar-2004
063	0005	42101	1	Carbon Monoxide	MALFUNCTION JCT, SOUTH, BROOKS & RUSSELL	Missoula	01-Oct-2007	31-Mar-2008
063	0005	42101	1	Carbon Monoxide	MALFUNCTION JCT, SOUTH, BROOKS & RUSSELL	Missoula	01-Oct-2009	
063	0005	42101	1	Carbon Monoxide	MALFUNCTION JCT, SOUTH, BROOKS & RUSSELL	Missoula	01-Jan-1979	31-Mar-2000
063	0005	42101	1	Carbon Monoxide	MALFUNCTION JCT, SOUTH, BROOKS & RUSSELL	Missoula	01-Oct-2002	31-Mar-2003
063	0005	61101	1	Wind Speed	MALFUNCTION JCT, SOUTH, BROOKS & RUSSELL	Missoula	01-Jan-1980	31-Mar-1993
063	0005	61102	1	Wind Direction	MALFUNCTION JCT, SOUTH, BROOKS & RUSSELL	Missoula	01-Jan-1980	31-Mar-1993

063	0005	61106	1	Std Dev Hz Wind Direction	MALFUNCTION JCT, SOUTH, BROOKS & RUSSELL	Missoula	01-Nov-1990	31-Mar-1993
063	0008	11101	1	Suspended Particulate (Tsp)	RANGERS STA. SEELEY LAKE HIWAY 209	Missoula	01-Jan-1971	31-Dec-1972
063	0008	11103	1	Benzene Sol.Organics(TSP)	RANGERS STA. SEELEY LAKE HIWAY 209	Missoula	01-Jan-1971	31-Dec-1972
063	0008	12403	1	Sulfate (Tsp) Stp	RANGERS STA. SEELEY LAKE HIWAY 209	Missoula	01-Jan-1971	31-Dec-1972
063	0009	11101	1	Suspended Particulate (Tsp)	JOHNSON BELL FIELD, HIWAY 10 WEST	Missoula	01-Jan-1971	31-Dec-1978
063	0009	11103	1	Benzene Sol.Organics(TSP)	JOHNSON BELL FIELD, HIWAY 10 WEST	Missoula	01-Jan-1971	31-Dec-1977
063	0009	12403	2	Sulfate (Tsp) Stp	JOHNSON BELL FIELD, HIWAY 10 WEST	Missoula	01-Jan-1971	31-Dec-1976
063	0009	12403	1	Sulfate (Tsp) Stp	JOHNSON BELL FIELD, HIWAY 10 WEST	Missoula	01-Jan-1977	31-Dec-1978
063	0010	11101	1	Suspended Particulate (Tsp)	BONNER ONE STATE FORESTRY OFFICE	Missoula	01-Jan-1972	31-Dec-1978
063	0010	11103	1	Benzene Sol.Organics(TSP)	BONNER ONE STATE FORESTRY OFFICE	Missoula	01-Jan-1972	31-Dec-1973
063	0010	12403	1	Sulfate (Tsp) Stp	BONNER ONE STATE FORESTRY OFFICE	Missoula	01-Jan-1972	31-Dec-1973
063	0011	11101	1	Suspended Particulate (Tsp)	BONNER TWO	Missoula	01-Jan-1973	31-Dec-1974
063	0012	68101	1	Sample Flow Rate- Cv	HALF MILE NORTH HWY 200	Missoula	03-Aug-2002	30-Sep-2004
063	0012	68102	1	Sample Volume	HALF MILE NORTH HWY 200	Missoula	03-Aug-2002	30-Sep-2004
063	0012	68103	1	Ambient Min Temperature	HALF MILE NORTH HWY 200	Missoula	03-Aug-2002	30-Sep-2004
063	0012	68104	1	Ambient Max Temperature	HALF MILE NORTH HWY 200	Missoula	03-Aug-2002	30-Sep-2004
063	0012	68105	1	Ambient Temperature	HALF MILE NORTH HWY 200	Missoula	03-Aug-2002	30-Sep-2004
063	0012	68106	1	Sample Min Baro Pressure	HALF MILE NORTH HWY 200	Missoula	03-Aug-2002	30-Sep-2004
063	0012	68107	1	Sample Max Baro Pressure	HALF MILE NORTH HWY 200	Missoula	03-Aug-2002	30-Sep-2004
063	0012	68108	1	Sample Baro Pressure	HALF MILE NORTH HWY 200	Missoula	03-Aug-2002	30-Sep-2004
063	0012	68109	1	Elapsed Sample Time	HALF MILE NORTH HWY 200	Missoula	03-Aug-2002	30-Sep-2004
063	0012	88101	1	PM <sub>2.5</sub> - Local Conditions	HALF MILE NORTH HWY 200	Missoula	03-Aug-2002	30-Sep-2004
063	0013	11101	1	Suspended Particulate (Tsp)	TARGET RANGE	Missoula	01-Jan-1973	31-Dec-1975
063	0014	11101	1	Suspended Particulate (Tsp)	FRENCHTOWN	Missoula	01-Jan-1975	31-Dec-1977
063	0014	11103	1	Benzene Sol.Organics(TSP)	FRENCHTOWN	Missoula	01-Jan-1977	31-Dec-1977
063	0014	12403	2	Sulfate (Tsp) Stp	FRENCHTOWN	Missoula	01-Jan-1976	31-Dec-1976
063	0014	12403	1	Sulfate (Tsp) Stp	FRENCHTOWN	Missoula	01-Jan-1977	31-Dec-1977
063	0015	11101	1	Suspended Particulate (Tsp)	CHAMPION PACKAGING, FRENCHTOWN	Missoula	01-Jan-1977	31-Dec-1987
063	0015	11101	2	Suspended Particulate (Tsp)	CHAMPION PACKAGING, FRENCHTOWN	Missoula	01-Jan-1982	31-Dec-1987
063	0015	11103	1	Benzene Sol.Organics(TSP)	CHAMPION PACKAGING, FRENCHTOWN	Missoula	01-Jan-1977	31-Dec-1987
063	0015	12403	1	Sulfate (Tsp) Stp	CHAMPION PACKAGING, FRENCHTOWN	Missoula	01-Jan-1977	31-Dec-1986
063	0015	42401	1	Sulfur Dioxide	CHAMPION PACKAGING, FRENCHTOWN	Missoula	01-Jan-1985	31-Dec-1985
063	0015	42402	1	Hydrogen Sulfide	CHAMPION PACKAGING, FRENCHTOWN	Missoula	01-Jan-1985	31-Dec-1987

063	0015	61101	1 Wind Speed	CHAMPION PACKAGING, FRENCHTOWN	Missoula	01-Jan-1979	31-Dec-1987
063	0015	61102	1 Wind Direction	CHAMPION PACKAGING, FRENCHTOWN	Missoula	01-Jan-1979	31-Dec-1987
063	0016	11101	1 Suspended Particulate (Tsp)	STONE CONTAINER #2-WELL FIELD, FRENCHTOWN	Missoula	01-Jan-1977	31-Dec-1992
063	0016	11103	1 Benzene Sol.Organics(TSP)	STONE CONTAINER #2-WELL FIELD, FRENCHTOWN	Missoula	01-Jan-1977	31-Dec-1977
063	0016	12403	1 Sulfate (Tsp) Stp	STONE CONTAINER #2-WELL FIELD, FRENCHTOWN	Missoula	01-Jan-1977	31-Dec-1986
063	0016	42401	1 Sulfur Dioxide	STONE CONTAINER #2-WELL FIELD, FRENCHTOWN	Missoula	01-Jan-1981	31-Dec-1985
063	0016	42402	1 Hydrogen Sulfide	STONE CONTAINER #2-WELL FIELD, FRENCHTOWN	Missoula	01-Jan-1981	
063	0016	81102	1 PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	STONE CONTAINER #2-WELL FIELD, FRENCHTOWN	Missoula	15-May-1992	31-Dec-1997
063	0016	85101	1 PM <sub>10</sub> - Lc	STONE CONTAINER #2-WELL FIELD, FRENCHTOWN	Missoula	01-Jan-1998	
063	0017	11101	1 Suspended Particulate (Tsp)	CHAMPION PACKAGING, FRENCHTOWN, MT	Missoula	01-Jan-1977	31-Dec-1979
063	0017	12403	1 Sulfate (Tsp) Stp	CHAMPION PACKAGING, FRENCHTOWN, MT	Missoula	01-Jan-1977	31-Dec-1978
063	0018	11101	1 Suspended Particulate (Tsp)	COURTHOUSE LAWN	Missoula	01-Jan-1977	31-Dec-1978
063	0018	12403	1 Sulfate (Tsp) Stp	COURTHOUSE LAWN	Missoula	01-Jan-1977	31-Dec-1978
063	0018	12403	2 Sulfate (Tsp) Stp	COURTHOUSE LAWN	Missoula	01-Jan-1977	31-Dec-1977
063	0019	11101	1 Suspended Particulate (Tsp)	LIONS PARK	Missoula	01-Jan-1977	31-Dec-1981
063	0019	11203	1 Light Scatter	LIONS PARK	Missoula	01-Jan-1978	31-Dec-1980
063	0019	12101	1 Aluminum (Tsp) Stp	LIONS PARK	Missoula	01-Jan-1978	31-Dec-1979
063	0019	12103	1 Arsenic (Tsp) Stp	LIONS PARK	Missoula	01-Jan-1978	31-Dec-1980
063	0019	12107	1 Barium (Tsp) Stp	LIONS PARK	Missoula	01-Jan-1978	31-Dec-1978
063	0019	12110	1 Cadmium (Tsp) Stp	LIONS PARK	Missoula	01-Jan-1978	31-Dec-1980
063	0019	12112	1 Chromium (Tsp) Stp	LIONS PARK	Missoula	01-Jan-1978	31-Dec-1980
063	0019	12114	1 Copper (Tsp) Stp	LIONS PARK	Missoula	01-Jan-1978	31-Dec-1980
063	0019	12126	1 Iron (Tsp) Stp	LIONS PARK	Missoula	01-Jan-1978	31-Dec-1979
063	0019	12128	1 Lead (Tsp) Stp	LIONS PARK	Missoula	01-Jan-1978	31-Dec-1980
063	0019	12132	1 Manganese (Tsp) Stp	LIONS PARK	Missoula	01-Jan-1978	31-Dec-1980
063	0019	12136	1 Nickel (Tsp) Stp	LIONS PARK	Missoula	01-Jan-1978	31-Dec-1980
063	0019	12164	1 Vanadium (Tsp) Stp	LIONS PARK	Missoula	01-Jan-1978	31-Dec-1980
063	0019	12167	1 Zinc (Tsp) Stp	LIONS PARK	Missoula	01-Jan-1978	31-Dec-1979
063	0019	12306	1 Nitrate (Tsp) Stp	LIONS PARK	Missoula	01-Jan-1978	31-Dec-1980
063	0019	12403	1 Sulfate (Tsp) Stp	LIONS PARK	Missoula	01-Jan-1977	31-Dec-1980
063	0019	12403	2 Sulfate (Tsp) Stp	LIONS PARK	Missoula	01-Jan-1978	31-Dec-1978
063	0019	42101	1 Carbon Monoxide	LIONS PARK	Missoula	01-Jan-1978	31-Dec-1981
063	0019	42401	1 Sulfur Dioxide	LIONS PARK	Missoula	01-Jan-1977	31-Dec-1981

063	0019	42601	1	Nitric Oxide	LIONS PARK	Missoula	01-Jan-1979	31-Dec-1979
063	0019	42602	1	Nitrogen Dioxide	LIONS PARK	Missoula	01-Jan-1977	31-Dec-1984
063	0019	42603	1	Oxides Of Nitrogen	LIONS PARK	Missoula	01-Jan-1979	31-Dec-1979
063	0019	43101	1	Total Hydrocarbons	LIONS PARK	Missoula	01-Jan-1977	31-Dec-1980
063	0019	44201	1	Ozone	LIONS PARK	Missoula	01-Jan-1978	31-Dec-1981
063	0019	61101	1	Wind Speed	LIONS PARK	Missoula	01-Jan-1978	31-Dec-1980
063	0019	61102	1	Wind Direction	LIONS PARK	Missoula	01-Jan-1978	31-Dec-1980
063	0019	62101	1	Outdoor Temperature	LIONS PARK	Missoula	01-Jan-1978	31-Dec-1978
063	0019	64101	1	Barometric Pressure	LIONS PARK	Missoula	01-Jan-1979	31-Dec-1980
063	0020	11101	1	Suspended Particulate (Tsp)	ROSE PARK	Missoula	01-Jan-1978	31-Dec-1987
063	0020	11101	2	Suspended Particulate (Tsp)	ROSE PARK	Missoula	01-Jan-1982	31-Dec-1983
063	0020	11203	1	Light Scatter	ROSE PARK	Missoula	01-Jan-1980	31-Dec-1982
063	0020	12403	1	Sulfate (Tsp) Stp	ROSE PARK	Missoula	01-Jan-1981	31-Dec-1986
063	0020	42101	1	Carbon Monoxide	ROSE PARK	Missoula	01-Jan-1980	31-Dec-1982
063	0020	42401	1	Sulfur Dioxide	ROSE PARK	Missoula	01-Jan-1982	31-Dec-1983
063	0020	61101	1	Wind Speed	ROSE PARK	Missoula	01-Jan-1980	31-Dec-1983
063	0020	61102	1	Wind Direction	ROSE PARK	Missoula	01-Jan-1980	31-Dec-1983
063	0020	62101	1	Outdoor Temperature	ROSE PARK	Missoula	01-Jan-1981	31-Dec-1983
063	0020	81101	2	Size Fractionated Particulate	ROSE PARK	Missoula	01-Jan-1984	31-Dec-1987
063	0020	81101	1	Size Fractionated Particulate	ROSE PARK	Missoula	01-Jan-1983	31-Dec-1984
063	0020	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	ROSE PARK	Missoula	01-Jan-1984	31-Dec-1987
063	0020	81102	2	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	ROSE PARK	Missoula	01-Apr-1987	31-Dec-1987
063	0021	68101	1	Sample Flow Rate- Cv	SEELEY LAKE US 83	Missoula	14-Nov-2004	01-Jan-2007
063	0021	68102	1	Sample Volume	SEELEY LAKE US 83	Missoula	14-Nov-2004	01-Jan-2007
063	0021	68103	1	Ambient Min Temperature	SEELEY LAKE US 83	Missoula	14-Nov-2004	01-Jan-2007
063	0021	68104	1	Ambient Max Temperature	SEELEY LAKE US 83	Missoula	14-Nov-2004	01-Jan-2007
063	0021	68105	1	Ambient Temperature	SEELEY LAKE US 83	Missoula	14-Nov-2004	
063	0021	68106	1	Sample Min Baro Pressure	SEELEY LAKE US 83	Missoula	14-Nov-2004	01-Jan-2007
063	0021	68107	1	Sample Max Baro Pressure	SEELEY LAKE US 83	Missoula	14-Nov-2004	01-Jan-2007
063	0021	68108	1	Sample Baro Pressure	SEELEY LAKE US 83	Missoula	14-Nov-2004	
063	0021	68109	1	Elapsed Sample Time	SEELEY LAKE US 83	Missoula	14-Nov-2004	01-Jan-2007
063	0021	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	SEELEY LAKE US 83	Missoula	02-Dec-2004	
063	0021	85101	1	PM <sub>10</sub> - Lc	SEELEY LAKE US 83	Missoula	02-Dec-2004	31-Dec-2008

063	0021	88101	1	PM <sub>2.5</sub> - Local Conditions	SEELEY LAKE US 83	Missoula	14-Nov-2004	
063	0022	42402	1	Hydrogen Sulfide	No Name Road	Missoula	28-Mar-2007	
063	0022	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	No Name Road	Missoula	03-Jan-2007	
063	0022	85101	1	PM10 - Lc	No Name Road	Missoula	03-Jan-2007	
063	0023	42101	1	Carbon Monoxide	Downtown CO, Higgins Ave Between Broadway & Main	Missoula	01-Jan-1980	31-Dec-1981
063	0024	11101	3	Suspended Particulate (Tsp)	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-1983	31-Dec-1984
063	0024	11101	1	Suspended Particulate (Tsp)	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-1981	31-Dec-1987
063	0024	42101	1	Carbon Monoxide	BOYD PARK, 3100 WASHBURN	Missoula	11-Aug-1981	31-Mar-1991
063	0024	68101	1	Sample Flow Rate- Cv	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-1999	30-Mar-2002
063	0024	68102	1	Sample Volume	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-1999	30-Mar-2002
063	0024	68103	1	Ambient Min Temperature	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-1999	30-Mar-2002
063	0024	68103	5	Ambient Min Temperature	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	68104	5	Ambient Max Temperature	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	68104	1	Ambient Max Temperature	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-1999	30-Mar-2002
063	0024	68105	1	Ambient Temperature	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-1999	30-Mar-2002
063	0024	68105	5	Ambient Temperature	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	68106	1	Sample Min Baro Pressure	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-1999	30-Mar-2002
063	0024	68106	5	Sample Min Baro Pressure	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	68107	1	Sample Max Baro Pressure	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-1999	30-Mar-2002
063	0024	68107	5	Sample Max Baro Pressure	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	68108	5	Sample Baro Pressure	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	68108	1	Sample Baro Pressure	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-1999	30-Mar-2002
063	0024	68109	1	Elapsed Sample Time	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-1999	30-Mar-2002
063	0024	81101	1	Size Fractionated Particulate	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-1983	31-Dec-1984
063	0024	81101	2	Size Fractionated Particulate	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-1985	01-Jan-1985
063	0024	81102	3	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	BOYD PARK, 3100 WASHBURN	Missoula	15-May-1987	31-Dec-1990
063	0024	81102	5	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	BOYD PARK, 3100 WASHBURN	Missoula	08-Apr-2002	30-Dec-2005
063	0024	81102	2	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-1984	27-Sep-1999
063	0024	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	BOYD PARK, 3100 WASHBURN	Missoula	09-Oct-1984	31-Dec-1987
063	0024	81102	4	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	BOYD PARK, 3100 WASHBURN	Missoula	31-Jan-1992	31-Mar-2002
063	0024	81102	6	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2006	
063	0024	82306	1	Nitrate PM <sub>10</sub> Stp	BOYD PARK, 3100 WASHBURN	Missoula	01-Sep-1996	30-Jun-1997
063	0024	82403	1	Sulfate PM <sub>10</sub> Stp	BOYD PARK, 3100 WASHBURN	Missoula	01-Sep-1996	30-Jun-1997

063	0024	85101	1	PM <sub>10</sub> - Lc	BOYD PARK, 3100 WASHBURN	Missoula	18-Sep-1999	27-Sep-1999
063	0024	85101	1	PM <sub>10</sub> - Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2000	31-Jan-2000
063	0024	85101	1	PM <sub>10</sub> - Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-1998	15-Aug-1998
063	0024	85101	4	PM10 - Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2006	31-Dec-2008
063	0024	85101	3	B PM <sub>10</sub> - Lc	BOYD PARK, 3100 WASHBURN	Missoula	08-Apr-2002	30-Dec-2005
063	0024	85101	2	PM10 - Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2000	31-Mar-2002
063	0024	88101	1	PM <sub>2.5</sub> - Local Conditions	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-1999	30-Mar-2002
063	0024	88101	3	PM <sub>2.5</sub> - Local Conditions	BOYD PARK, 3100 WASHBURN	Missoula	15-Nov-2008	
063	0024	88101	4	PM <sub>2.5</sub> - Local Conditions	BOYD PARK, 3100 WASHBURN	Missoula	15-Nov-2008	
063	0024	88102	5	Antimony PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88103	5	Arsenic PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88104	5	Aluminum PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88107	5	Barium PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88109	5	Bromine PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88110	5	o Cadmium PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88111	5	Calcium PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88112	5	Chromium PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88113	5	o Cobalt PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88114	5	Copper PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88115	5	Chlorine PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88117	5	Cerium PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88118	5	Cesium PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88121	5	Europium PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88124	5	Gallium PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88126	5	Iron PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88127	5	i Hafnium PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88128	5	Eead PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88131	5	i Indium PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88132	5	Manganese PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88133	5	i Iridium PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88134	5	Molybdenum PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88136	5	Nickel PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88140	5	Magnesium PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002

063	0024	88142	5	Mercury PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88143	5	Gold PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88146	5	Lanthanum PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88147	5	Niobium PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88152	5	Phosphorus PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88154	5	Selenium PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88160	5	Tin PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88161	5	Titanium PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88162	5	Samarium PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88163	5	Scandium PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88164	5	Vanadium PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88165	5	Silicon PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88166	5	Silver PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88167	5	Zinc PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88168	5	Strontium PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88169	5	Sulfur PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88170	5	Tantalum PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88172	5	Terbium PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88176	5	Rubidium PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88180	5	Potassium PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88183	5	Yttrium PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88184	5	Sodium PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88185	5	Zirconium PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88186	5	Tungsten PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88301	5	Ammonium Ion PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88302	5	Sodium Ion PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88303	5	Potassium Ion PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88304	5	Ocx Carbon PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	24-Feb-2001
063	0024	88305	5	Oc Csn Unadj PM <sub>2.5</sub> LC	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88306	5	Total Nitrate PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88307	5	Ec Csn PM <sub>2.5</sub> LC	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88308	5	Carbonate C Csn PM <sub>2.5</sub> LC	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88311	5	Ocx2 Carbon PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	24-Feb-2001	02-Apr-2002

063	0024	88403	5	Sulfate PM <sub>2.5</sub> Lc	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0024	88502	5	Accpt.PM25 AQI Spec.Mass	BOYD PARK, 3100 WASHBURN	Missoula	01-Jan-2001	02-Apr-2002
063	0025	11101	1	Suspended Particulate (Tsp)	BEACON STREET	Missoula	01-Jan-1982	31-Dec-1983
063	0026	11101	1	Suspended Particulate (Tsp)	GLACIER DRIVE	Missoula	01-Jan-1982	31-Dec-1983
063	0028	11101	1	Suspended Particulate (Tsp)	CENTRAL EVARO	Missoula	01-Jan-1983	31-Dec-1983
063	0028	61101	1	Wind Speed	CENTRAL EVARO	Missoula	01-Jan-1983	31-Dec-1983
063	0028	61102	1	Wind Direction	CENTRAL EVARO	Missoula	01-Jan-1983	31-Dec-1983
063	0028	62101	1	Outdoor Temperature	CENTRAL EVARO	Missoula	01-Jan-1983	31-Dec-1983
063	0029	11101	1	Suspended Particulate (Tsp)	BRIGGS AND RESERVE, MISSOULA 59801	Missoula	01-Jan-1984	31-Dec-1984
063	0029	81101	1	Size Fractionated Particulate	BRIGGS AND RESERVE, MISSOULA 59801	Missoula	01-Jan-1984	31-Dec-1986
063	0030	11101	1	Suspended Particulate (Tsp)	SPURGIN ROAD AND TOWER STREET, MISSOULA	Missoula	01-Jan-1984	31-Dec-1986
063	0031	11101	1	Suspended Particulate (Tsp)	HEALTH DEPT, 301 WEST ALDER	Missoula	01-Jan-1985	31-Dec-1987
063	0031	11101	3	Suspended Particulate (Tsp)	HEALTH DEPT, 301 WEST ALDER	Missoula	01-Jan-1985	31-Dec-1987
063	0031	68101	1	Sample Flow Rate- Cv	HEALTH DEPT, 301 WEST ALDER	Missoula	01-Jan-1999	01-Jan-2007
063	0031	68101	2	Sample Flow Rate- Cv	HEALTH DEPT, 301 WEST ALDER	Missoula	08-Apr-2002	01-Jan-2007
063	0031	68102	2	Sample Volume	HEALTH DEPT, 301 WEST ALDER	Missoula	08-Apr-2002	01-Jan-2007
063	0031	68102	1	Sample Volume	HEALTH DEPT, 301 WEST ALDER	Missoula	01-Jan-1999	01-Jan-2007
063	0031	68103	5	Ambient Min Temperature	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	
063	0031	68103	2	Ambient Min Temperature	HEALTH DEPT, 301 WEST ALDER	Missoula	08-Apr-2002	01-Jan-2007
063	0031	68103	1	Ambient Min Temperature	HEALTH DEPT, 301 WEST ALDER	Missoula	01-Jan-1999	01-Jan-2007
063	0031	68104	5	Ambient Max Temperature	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	
063	0031	68104	2	Ambient Max Temperature	HEALTH DEPT, 301 WEST ALDER	Missoula	08-Apr-2002	01-Jan-2007
063	0031	68104	1	Ambient Max Temperature	HEALTH DEPT, 301 WEST ALDER	Missoula	01-Jan-1999	01-Jan-2007
063	0031	68105	2	Ambient Temperature	HEALTH DEPT, 301 WEST ALDER	Missoula	08-Apr-2002	
063	0031	68105	5	Ambient Temperature	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	
063	0031	68105	1	Ambient Temperature	HEALTH DEPT, 301 WEST ALDER	Missoula	01-Jan-1999	
063	0031	68106	5	Sample Min Baro Pressure	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	
063	0031	68106	2	Sample Min Baro Pressure	HEALTH DEPT, 301 WEST ALDER	Missoula	08-Apr-2002	01-Jan-2007
063	0031	68106	1	Sample Min Baro Pressure	HEALTH DEPT, 301 WEST ALDER	Missoula	01-Jan-1999	01-Jan-2007
063	0031	68107	2	Sample Max Baro Pressure	HEALTH DEPT, 301 WEST ALDER	Missoula	08-Apr-2002	01-Jan-2007
063	0031	68107	5	Sample Max Baro Pressure	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	
063	0031	68107	1	Sample Max Baro Pressure	HEALTH DEPT, 301 WEST ALDER	Missoula	01-Jan-1999	01-Jan-2007
063	0031	68108	1	Sample Baro Pressure	HEALTH DEPT, 301 WEST ALDER	Missoula	01-Jan-1999	

063	0031	68108	2	Sample Baro Pressure	HEALTH DEPT, 301 WEST ALDER	Missoula	08-Apr-2002	
063	0031	68108	5	Sample Baro Pressure	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	
063	0031	68109	2	Elapsed Sample Time	HEALTH DEPT, 301 WEST ALDER	Missoula	08-Apr-2002	01-Jan-2007
063	0031	68109	1	Elapsed Sample Time	HEALTH DEPT, 301 WEST ALDER	Missoula	01-Jan-1999	01-Jan-2007
063	0031	81101	1	Size Fractionated Particulate	HEALTH DEPT, 301 WEST ALDER	Missoula	01-Jan-1985	31-Dec-1985
063	0031	81102	3	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	HEALTH DEPT, 301 WEST ALDER	Missoula	01-Apr-2002	31-Dec-2005
063	0031	81102	2	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	HEALTH DEPT, 301 WEST ALDER	Missoula	12-Apr-1987	28-Mar-2002
063	0031	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	HEALTH DEPT, 301 WEST ALDER	Missoula	29-Sep-1986	31-Dec-1987
063	0031	81102	4	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	HEALTH DEPT, 301 WEST ALDER	Missoula	01-Jan-2006	12-Feb-2009
063	0031	85101	2	PM <sub>10</sub> - Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	01-Apr-2002	31-Dec-2005
063	0031	85101	1	PM <sub>10</sub> - Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	01-Jan-1998	28-Mar-2002
063	0031	85101	3	PM <sub>10</sub> - Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	01-Jan-2006	31-Dec-2008
063	0031	86502	1	Acceptable PM102.5 LC	HEALTH DEPT, 301 WEST ALDER	Missoula	01-Jan-2006	31-Dec-2008
063	0031	88101	1	PM <sub>2.5</sub> - Local Conditions	HEALTH DEPT, 301 WEST ALDER	Missoula	01-Jan-1999	
063	0031	88101	2	PM <sub>2.5</sub> - Local Conditions	HEALTH DEPT, 301 WEST ALDER	Missoula	08-Apr-2002	
063	0031	88102	5	Antimony PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	
063	0031	88103	5	Arsenic PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	
063	0031	88104	5	Aluminum PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	
063	0031	88107	5	Barium PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	
063	0031	88109	5	Bromine PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	
063	0031	88110	5	Cadmium PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	
063	0031	88111	5	Calcium PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	
063	0031	88112	5	Chromium PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	
063	0031	88113	5	Cobalt PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	
063	0031	88114	5	Copper PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	
063	0031	88115	5	Chlorine PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	
063	0031	88117	5	Cerium PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	
063	0031	88118	5	Cesium PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	
063	0031	88121	5	Europium PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	18-Feb-2009
063	0031	88124	5	Gallium PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	18-Feb-2009
063	0031	88126	5	Iron PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	
063	0031	88127	5	Hafnium PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	18-Feb-2009
063	0031	88128	5	Lead PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	

063	0031	88131	5	Indium PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	
063	0031	88132	5	Manganese PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	
063	0031	88133	5	Iridium PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	18-Feb-2009
063	0031	88134	5	Molybdenum PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	18-Feb-2009
063	0031	88136	5	Nickel PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	
063	0031	88140	5	Magnesium PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	
063	0031	88142	5	Mercury PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	18-Feb-2009
063	0031	88143	5	Gold PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	18-Feb-2009
063	0031	88146	5	Lanthanum PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	18-Feb-2009
063	0031	88147	5	Niobium PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	18-Feb-2009
063	0031	88152	5	Phosphorus PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	
063	0031	88154	5	Selenium PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	
063	0031	88160	5	5 Tin PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	
063	0031	88161	5	Titanium PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	
063	0031	88162	5	Samarium PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	18-Feb-2009
063	0031	88163	5	Scandium PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	18-Feb-2009
063	0031	88164	5	Vanadium PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	
063	0031	88165	5	5 Silicon PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	
063	0031	88166	5	Silver PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	
063	0031	88167	5	Zinc PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	
063	0031	88168	5	Strontium PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	
063	0031	88169	5	5 Sulfur PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	
063	0031	88170	5	Tantalum PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	18-Feb-2009
063	0031	88172	5	Terbium PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	18-Feb-2009
063	0031	88176	5	Rubidium PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	
063	0031	88180	5	Potassium PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	
063	0031	88183	5	5 Yttrium PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	18-Feb-2009
063	0031	88184	5	Sodium PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	
063	0031	88185	5	Zirconium PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	
063	0031	88186	5	Tungsten PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	18-Feb-2009
063	0031	88301	5	Ammonium Ion PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	
063	0031	88302	5	Sodium Ion PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	
063	0031	88303	5	Potassium Ion PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	

063	0031	88305	5	Oc Csn Unadi PMas I C	HEALTH DEPT 301 WEST ALDER	Missoula	05-Apr-2002	05 <u>-</u> Jul-2007
063	0031	88306	5	Total Nitrate PM251 c	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	00-001-2007
063	0031	88307	5	Fc Csn PM <sub>25</sub> LC	HEALTH DEPT 301 WEST ALDER	Missoula	05-Apr-2002	05-Jul-2007
063	0031	88308	5	Carbonate C. Csn PM <sub>25</sub> I C	HEALTH DEPT. 301 WEST ALDER	Missoula	05-Apr-2002	12-Jul-2003
063	0031	88311	5	Ocx2 Carbon PM <sub>2.5</sub> Lc	HEALTH DEPT. 301 WEST ALDER	Missoula	05-Apr-2002	12-Jul-2003
063	0031	88329	5	Ec1 PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	03-May-2007	
063	0031	88330	5	Ec2 PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	03-May-2007	
063	0031	88331	5	Ec3 PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	03-May-2007	
063	0031	88332	5	Oc1 Csn Unadj PM <sub>2.5</sub> LC	HEALTH DEPT, 301 WEST ALDER	Missoula	14-Jul-2003	05-Jul-2007
063	0031	88333	5	Oc2 Csn Unadj PM <sub>2.5</sub> LC	HEALTH DEPT, 301 WEST ALDER	Missoula	14-Jul-2003	05-Jul-2007
063	0031	88334	5	Oc3 Csn Unadj PM <sub>2.5</sub> LC	HEALTH DEPT, 301 WEST ALDER	Missoula	14-Jul-2003	05-Jul-2007
063	0031	88335	5	Oc4 Csn Unadj PM <sub>2.5</sub> LC	HEALTH DEPT, 301 WEST ALDER	Missoula	14-Jul-2003	05-Jul-2007
063	0031	88336	5	Op Csn PM <sub>2.5</sub> LC	HEALTH DEPT, 301 WEST ALDER	Missoula	14-Jul-2003	05-Jul-2007
063	0031	88355	5	Oc Csn Rev Un PM25 LC	HEALTH DEPT, 301 WEST ALDER	Missoula	03-May-2007	
063	0031	88357	5	Ec Csn Rev Un PM25 LC	HEALTH DEPT, 301 WEST ALDER	Missoula	03-May-2007	
063	0031	88370	5	Oc CsnRevUn PM25LC Tor	HEALTH DEPT, 301 WEST ALDER	Missoula	03-May-2007	
063	0031	88374	5	Oc1 Csn Rev Un PM25 LC	HEALTH DEPT, 301 WEST ALDER	Missoula	03-May-2007	
063	0031	88375	5	Oc2 Csn Rev Un PM25 LC	HEALTH DEPT, 301 WEST ALDER	Missoula	03-May-2007	
063	0031	88376	5	Oc3 Csn Rev Un PM25 LC	HEALTH DEPT, 301 WEST ALDER	Missoula	03-May-2007	
063	0031	88377	5	Oc4 CsnRevUn PM25LC	HEALTH DEPT, 301 WEST ALDER	Missoula	03-May-2007	
063	0031	88378	5	Op CsnRevUn PM25LC Tor	HEALTH DEPT, 301 WEST ALDER	Missoula	03-May-2007	
063	0031	88380	5	Ec CsnRevUn PM25LC Tor	HEALTH DEPT, 301 WEST ALDER	Missoula	03-May-2007	
063	0031	88383	5	Ec1 Csn Rev Un PM25 LC	HEALTH DEPT, 301 WEST ALDER	Missoula	03-May-2007	
063	0031	88384	5	Ec2 Csn Rev Un PM25 LC	HEALTH DEPT, 301 WEST ALDER	Missoula	03-May-2007	
063	0031	88385	5	Ec3 Csn Rev Un PM25 LC	HEALTH DEPT, 301 WEST ALDER	Missoula	03-May-2007	
063	0031	88388	5	Op Csn Rev Un PM25 LC	HEALTH DEPT, 301 WEST ALDER	Missoula	03-May-2007	
063	0031	88403	5	Sulfate PM <sub>2.5</sub> Lc	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	
063	0031	88502	5	Accpt.PM25 AQI Spec.Mass	HEALTH DEPT, 301 WEST ALDER	Missoula	05-Apr-2002	
063	0032	11101	1	Suspended Particulate (Tsp)	RATTLESNAKE GRADE SCHOOL,120 PINEVIEW,MS	Missoula	01-Jan-1986	31-Dec-1987
063	0033	11101	1	Suspended Particulate (Tsp)	MT JUMBO SCHOOL, MINNESOTA & 6TH	Missoula	01-Jan-1986	23-Nov-1987
063	0033	81101	1	Size Fractionated Particulate	MT JUMBO SCHOOL, MINNESOTA & 6TH	Missoula	01-Jan-1986	31-Dec-1986
063	0033	81102	2	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	MT JUMBO SCHOOL, MINNESOTA & 6TH	Missoula	27-Apr-1987	23-Nov-1987
063	0033	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	MT JUMBO SCHOOL, MINNESOTA & 6TH	Missoula	04-Dec-1986	23-Nov-1987

063	0034	11101	2	Suspended Particulate (Tsp)	STONE CONTAINER #1A. MOCCASIN LANE	Missoula	15-Oct-1987	31-Dec-1990
063	0034	11101	1	Suspended Particulate (Tsp)	STONE CONTAINER #1A. MOCCASIN LANE	Missoula	11-Oct-1987	10-May-1992
063	0034	42402	1	Hvdrogen Sulfide	STONE CONTAINER #1A. MOCCASIN LANE	Missoula	01-Jan-1987	
063	0034	42602	1	Nitrogen Dioxide	STONE CONTAINER #1A, MOCCASIN LANE	Missoula	01-Jan-1987	01-Jun-1992
063	0034	61101	1	Wind Speed	STONE CONTAINER #1A, MOCCASIN LANE	Missoula	01-Jan-1987	
063	0034	61102	1	Wind Direction	STONE CONTAINER #1A, MOCCASIN LANE	Missoula	01-Jan-1987	
063	0034	61106	1	Std Dev Hz Wind Direction	STONE CONTAINER #1A, MOCCASIN LANE	Missoula	01-Jun-1993	
063	0034	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	STONE CONTAINER #1A, MOCCASIN LANE	Missoula	03-Jan-2007	
063	0034	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	STONE CONTAINER #1A, MOCCASIN LANE	Missoula	15-May-1992	31-Dec-1997
063	0034	85101	1	PM <sub>10</sub> - Lc	STONE CONTAINER #1A, MOCCASIN LANE	Missoula	01-Jan-1998	
063	0035	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	LOLO LUBE CENTER;11555 S HWY 93	Missoula	04-Aug-1997	16-Jun-2000
063	0035	85101	1	PM <sub>10</sub> - Lc	LOLO LUBE CENTER;11555 S HWY 93	Missoula	01-Jan-1998	16-Jun-2000
063	0036	42601	1	Nitric Oxide	DUCHARME AND MAIN STREET	Missoula	01-Jun-2001	30-Jun-2003
063	0036	42602	1	Nitrogen Dioxide	DUCHARME AND MAIN STREET	Missoula	01-Jun-2001	30-Jun-2003
063	0036	42603	1	Oxides Of Nitrogen	DUCHARME AND MAIN STREET	Missoula	01-Jun-2001	30-Jun-2003
063	0036	44201	1	Ozone	DUCHARME AND MAIN STREET	Missoula	01-Jun-2001	05-Nov-2002
063	0036	61101	1	Wind Speed	DUCHARME AND MAIN STREET	Missoula	01-Jun-2001	30-Jun-2003
063	0036	61102	1	Wind Direction	DUCHARME AND MAIN STREET	Missoula	01-Jun-2001	30-Jun-2003
063	0036	61106	1	Std Dev Hz Wind Direction	DUCHARME AND MAIN STREET	Missoula	01-Jun-2001	30-Jun-2003
063	0036	62101	1	Outdoor Temperature	DUCHARME AND MAIN STREET	Missoula	01-Jun-2001	30-Jun-2003
063	0037	88101	3	PM <sub>2.5</sub> - Local Conditions	16134 Beckwith St, Frenchtown, MT	Missoula	01-Oct-2009	
063	0038	88502	3	Accpt.PM25 AQI Spec.Mass	School Lane	Missoula	13-Nov-2009	
063	0701	62101	1	Outdoor Temperature	TV MOUNTAIN, MAPS MET SITE	Missoula	01-Jan-1978	31-Dec-1979
063	0702	61101	1	Wind Speed	OLOFSON FARM, MAPS MET SITE	Missoula	01-Jan-1978	31-Dec-1980
063	0702	61102	1	Wind Direction	OLOFSON FARM, MAPS MET SITE	Missoula	01-Jan-1978	31-Dec-1980
063	0703	61101	1	Wind Speed	STEIGLER FARM, MAPS MET SITE	Missoula	01-Jan-1978	31-Dec-1980
063	0703	61102	1	Wind Direction	STEIGLER FARM, MAPS MET SITE	Missoula	01-Jan-1978	31-Dec-1980
063	0704	61101	1	Wind Speed	UNIVERSITY OF MONTANA, MAPS MET SITE	Missoula	01-Jan-1978	31-Dec-1980
063	0704	61102	1	Wind Direction	UNIVERSITY OF MONTANA, MAPS MET SITE	Missoula	01-Jan-1978	31-Dec-1980
065	0004	42401	1	Sulfur Dioxide	0.5 MILE E. OF HWY 87 & 0.25 N. OF OLD DIVIDE	Musselshell	01-Jan-2002	30-Nov-2003
065	0004	42601	1	Nitric Oxide	0.5 MILE E. OF HWY 87 & 0.25 N. OF OLD DIVIDE	Musselshell	01-Jan-2002	30-Nov-2003
065	0004	42602	1	Nitrogen Dioxide	0.5 MILE E. OF HWY 87 & 0.25 N. OF OLD DIVIDE	Musselshell	01-Jan-2002	30-Nov-2003
065	0004	42603	1	Oxides Of Nitrogen	0.5 MILE E. OF HWY 87 & 0.25 N. OF OLD DIVIDE	Musselshell	01-Jan-2002	30-Nov-2003

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065	0005	61101	1	Wind Speed	12 Miles South of Hwy 12 on Melstone Custer Rd	Musselshell	01-Oct-2007	01-Oct-2007
065	0005	61102	1	Wind Direction	12 Miles South of Hwy 12 on Melstone Custer Rd	Musselshell	01-Oct-2007	01-Oct-2007
065	0005	61106	1	Std Dev Hz Wind Direction	12 Miles South of Hwy 12 on Melstone Custer Rd	Musselshell	01-Oct-2007	01-Oct-2007
065	0005	62101	2	Outdoor Temperature	12 Miles South of Hwy 12 on Melstone Custer Rd	Musselshell	01-Oct-2007	01-Oct-2007
065	0005	62101	1	Outdoor Temperature	12 Miles South of Hwy 12 on Melstone Custer Rd	Musselshell	01-Oct-2007	01-Oct-2007
065	0005	62106	1	Temperature Difference	12 Miles South of Hwy 12 on Melstone Custer Rd	Musselshell	01-Oct-2007	01-Oct-2007
065	0005	62201	1	Relative Humidity	12 Miles South of Hwy 12 on Melstone Custer Rd	Musselshell	01-Oct-2007	01-Oct-2007
065	0005	63301	1	Solar Radiation	12 Miles South of Hwy 12 on Melstone Custer Rd	Musselshell	01-Oct-2007	01-Oct-2007
065	0005	63305	1	Net Radiation	12 Miles South of Hwy 12 on Melstone Custer Rd	Musselshell	01-Oct-2007	01-Oct-2007
065	0005	64101	1	Barometric Pressure	12 Miles South of Hwy 12 on Melstone Custer Rd	Musselshell	01-Oct-2007	01-Oct-2007
065	0005	65102	1	Rain/Melt Precipitation	12 Miles South of Hwy 12 on Melstone Custer Rd	Musselshell	01-Oct-2007	01-Oct-2007
065	0005	68105	2	Ambient Temperature	12 Miles South of Hwy 12 on Melstone Custer Rd	Musselshell	01-Oct-2007	01-Oct-2007
065	0005	68105	1	Ambient Temperature	12 Miles South of Hwy 12 on Melstone Custer Rd	Musselshell	01-Oct-2007	01-Oct-2007
065	0005	68108	2	Sample Baro Pressure	12 Miles South of Hwy 12 on Melstone Custer Rd	Musselshell	01-Oct-2007	01-Oct-2007
065	0005	68108	1	Sample Baro Pressure	12 Miles South of Hwy 12 on Melstone Custer Rd	Musselshell	01-Oct-2007	01-Oct-2007
065	0005	81102	2	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	12 Miles South of Hwy 12 on Melstone Custer Rd	Musselshell	01-Oct-2007	01-Oct-2007
065	0005	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	12 Miles South of Hwy 12 on Melstone Custer Rd	Musselshell	01-Oct-2007	01-Oct-2007
065	0005	85101	2	PM <sub>10</sub> - Lc	12 Miles South of Hwy 12 on Melstone Custer Rd	Musselshell	01-Oct-2007	01-Oct-2007
065	0005	85101	1	PM <sub>10</sub> - Lc	12 Miles South of Hwy 12 on Melstone Custer Rd	Musselshell	01-Oct-2007	01-Oct-2007
065	0005	88101	2	PM <sub>2.5</sub> - Local Conditions	12 Miles South of Hwy 12 on Melstone Custer Rd	Musselshell	01-Oct-2007	01-Oct-2007
065	0005	88101	1	PM <sub>2.5</sub> - Local Conditions	12 Miles South of Hwy 12 on Melstone Custer Rd	Musselshell	01-Oct-2007	01-Oct-2007
067	0001	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	TVX MINERAL HILL MINE #1,BOX 92,GARDINER	Park	15-May-1988	31-Dec-1997
067	0001	82103	1	Arsenic PM <sub>10</sub> Stp	TVX MINERAL HILL MINE #1,BOX 92,GARDINER	Park	16-Jan-1989	31-Mar-1992
067	0001	82128	1	Lead PM <sub>10</sub> Stp	TVX MINERAL HILL MINE #1,BOX 92,GARDINER	Park	16-Jan-1989	31-Dec-1991
067	0001	85101	1	PM <sub>10</sub> - Lc	TVX MINERAL HILL MINE #1,BOX 92,GARDINER	Park	01-Jan-1998	14-Aug-2001
067	0002	11101	1	Suspended Particulate (Tsp)	MIN HILL-HOMESTEAD #2,OLD TAILINGS,GRDNR	Park	01-Jan-1988	31-Dec-1991
067	0002	12103	1	Arsenic (Tsp) Stp	MIN HILL-HOMESTEAD #2,OLD TAILINGS,GRDNR	Park	01-Jan-1989	31-Dec-1991
067	0002	12128	1	Lead (Tsp) Stp	MIN HILL-HOMESTEAD #2,OLD TAILINGS,GRDNR	Park	01-Jan-1989	31-Dec-1991
067	0002	61101	1	Wind Speed	MIN HILL-HOMESTEAD #2,OLD TAILINGS,GRDNR	Park	01-Apr-1988	22-May-1991
067	0002	61102	1	Wind Direction	MIN HILL-HOMESTEAD #2,OLD TAILINGS,GRDNR	Park	01-Apr-1988	22-May-1991
067	0002	62101	1	Outdoor Temperature	MIN HILL-HOMESTEAD #2,OLD TAILINGS,GRDNR	Park	01-Apr-1988	03-Feb-1991
067	0002	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	MIN HILL-HOMESTEAD #2,OLD TAILINGS,GRDNR	Park	15-May-1988	30-Apr-1997
067	0002	82103	1	Arsenic PM <sub>10</sub> Stp	MIN HILL-HOMESTEAD #2,OLD TAILINGS,GRDNR	Park	01-Jan-1989	30-Apr-1997

067	0002	82128	1	Lead PM <sub>10</sub> Stp	MIN HILL-HOMESTEAD #2,OLD TAILINGS,GRDNR	Park	01-Jan-1989	31-Dec-1991
067	0003	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	MIN HILL-HOMESTEAD #3 NORTH, JARDINE	Park	15-May-1988	30-Apr-1997
067	0003	82103	1	Arsenic PM <sub>10</sub> Stp	MIN HILL-HOMESTEAD #3 NORTH, JARDINE	Park	16-Jan-1989	30-Apr-1997
067	0003	82128	1	Lead PM <sub>10</sub> Stp	MIN HILL-HOMESTEAD #3 NORTH, JARDINE	Park	16-Jan-1989	31-Dec-1991
067	0005	61101	1	Wind Speed	NORANDA INC-NEW WORLD-FISHER CR #1	Park	12-Sep-1989	31-Aug-1991
067	0005	61102	1	Wind Direction	NORANDA INC-NEW WORLD-FISHER CR #1	Park	12-Sep-1989	31-Aug-1991
067	0005	61106	1	Std Dev Hz Wind Direction	NORANDA INC-NEW WORLD-FISHER CR #1	Park	12-Sep-1989	31-Aug-1991
067	0005	62101	1	Outdoor Temperature	NORANDA INC-NEW WORLD-FISHER CR #1	Park	12-Jun-1989	31-Aug-1991
067	0005	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	NORANDA INC-NEW WORLD-FISHER CR #1	Park	12-Sep-1989	29-Jul-1991
067	0005	82103	1	Arsenic PM <sub>10</sub> Stp	NORANDA INC-NEW WORLD-FISHER CR #1	Park	12-Sep-1989	29-Jul-1991
067	0005	82110	1	Cadmium PM <sub>10</sub> Stp	NORANDA INC-NEW WORLD-FISHER CR #1	Park	12-Sep-1989	29-Jul-1991
067	0005	82112	1	Chromium PM <sub>10</sub> Stp	NORANDA INC-NEW WORLD-FISHER CR #1	Park	12-Sep-1989	29-Jul-1991
067	0005	82128	1	Lead PM <sub>10</sub> Stp	NORANDA INC-NEW WORLD-FISHER CR #1	Park	12-Sep-1989	29-Jul-1991
067	0005	82167	1	Zinc PM <sub>10</sub> Stp	NORANDA INC-NEW WORLD-FISHER CR #1	Park	12-Sep-1989	29-Jul-1991
067	0006	61101	1	Wind Speed	NORANDA INC-NEW WORLD-MCLAREN MINE #2	Park	11-Sep-1989	31-Aug-1991
067	0006	61102	1	Wind Direction	NORANDA INC-NEW WORLD-MCLAREN MINE #2	Park	11-Sep-1989	31-Aug-1991
067	0006	61106	1	Std Dev Hz Wind Direction	NORANDA INC-NEW WORLD-MCLAREN MINE #2	Park	11-Sep-1989	31-Aug-1991
067	0006	62101	1	Outdoor Temperature	NORANDA INC-NEW WORLD-MCLAREN MINE #2	Park	11-Sep-1989	31-Aug-1991
067	0006	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	NORANDA INC-NEW WORLD-MCLAREN MINE #2	Park	12-Sep-1989	08-Oct-1990
067	0006	82103	1	Arsenic PM <sub>10</sub> Stp	NORANDA INC-NEW WORLD-MCLAREN MINE #2	Park	12-Sep-1989	08-Oct-1990
067	0006	82110	1	Cadmium PM <sub>10</sub> Stp	NORANDA INC-NEW WORLD-MCLAREN MINE #2	Park	12-Sep-1989	08-Oct-1990
067	0006	82112	1	Chromium PM <sub>10</sub> Stp	NORANDA INC-NEW WORLD-MCLAREN MINE #2	Park	12-Sep-1989	08-Oct-1990
067	0006	82128	1	Lead PM <sub>10</sub> Stp	NORANDA INC-NEW WORLD-MCLAREN MINE #2	Park	12-Sep-1989	08-Oct-1990
067	0006	82167	1	Zinc PM <sub>10</sub> Stp	NORANDA INC-NEW WORLD-MCLAREN MINE #2	Park	12-Sep-1989	08-Oct-1990
067	0007	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	NEW WORLD SITE #3, COOKE CITY	Park	22-Jun-1990	31-Dec-1991
067	0007	82103	1	Arsenic PM <sub>10</sub> Stp	NEW WORLD SITE #3, COOKE CITY	Park	22-Jun-1990	31-Dec-1991
067	0007	82110	1	Cadmium PM <sub>10</sub> Stp	NEW WORLD SITE #3, COOKE CITY	Park	22-Jun-1990	31-Dec-1991
067	0007	82112	1	Chromium PM <sub>10</sub> Stp	NEW WORLD SITE #3, COOKE CITY	Park	22-Jun-1990	31-Dec-1991
067	0007	82128	1	Lead PM <sub>10</sub> Stp	NEW WORLD SITE #3, COOKE CITY	Park	22-Jun-1990	31-Dec-1991
067	0007	82167	1	Zinc PM <sub>10</sub> Stp	NEW WORLD SITE #3, COOKE CITY	Park	22-Jun-1990	31-Dec-1991
067	8000	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	BRAND S LUMBER-SITE 6-CITY PK,LIVINGSTON	Park	06-May-1990	31-Dec-1991
067	0009	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	MINERAL HILL-CREEK #4, JARDINE	Park	10-Nov-1990	02-Sep-1993
067	0009	82103	1	Arsenic PM <sub>10</sub> Stp	MINERAL HILL-CREEK #4, JARDINE	Park	10-Nov-1990	02-Sep-1993

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067	0009	82128	1	Lead PM <sub>10</sub> Stp	MINERAL HILL-CREEK #4, JARDINE	Park	10-Nov-1990	31-Dec-1991
067	0010	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	MINERAL HILL-OFFICE #5, JARDINE	Park	10-Nov-1990	02-Sep-1993
067	0010	82103	1	Arsenic PM <sub>10</sub> Stp	MINERAL HILL-OFFICE #5, JARDINE	Park	10-Nov-1990	02-Sep-1993
067	0010	82128	1	Lead PM <sub>10</sub> Stp	MINERAL HILL-OFFICE #5, JARDINE	Park	10-Nov-1990	31-Dec-1991
067	0011	61101	1	Wind Speed	MINERAL HILL-MET STATION, JARDINE	Park	22-May-1991	30-Sep-2001
067	0011	61102	1	Wind Direction	MINERAL HILL-MET STATION, JARDINE	Park	22-May-1991	30-Sep-2001
067	0011	61106	1	Std Dev Hz Wind Direction	MINERAL HILL-MET STATION, JARDINE	Park	22-May-1991	30-Sep-2001
067	0011	62101	1	Outdoor Temperature	MINERAL HILL-MET STATION, JARDINE	Park	02-Aug-1991	30-Sep-2001
067	0013	21101	1	Total Dustfall (Sp)	BRAND S CORP, SURROUNDING #2 DUSTFALL	Park	01-Jun-1990	31-Dec-1995
067	0013	25101	1	Dustfall Combustible (Sp)	BRAND S CORP, SURROUNDING #2 DUSTFALL	Park	01-Jun-1990	31-Dec-1995
067	0014	21101	1	Total Dustfall (Sp)	BRAND S CORP, SILO BURNER #3	Park	01-Jun-1990	31-Dec-1995
067	0014	25101	1	Dustfall Combustible (Sp)	BRAND S CORP, SILO BURNER #3	Park	01-Jun-1990	31-Dec-1995
067	0015	21101	1	Total Dustfall (Sp)	BRAND S CORP, SILO BURNER #4	Park	01-Jun-1990	31-Dec-1995
067	0015	25101	1	Dustfall Combustible (Sp)	BRAND S CORP, SILO BURNER #4	Park	01-Jun-1990	31-Dec-1995
067	0016	21101	1	Total Dustfall (Sp)	BRAND S CORP, SILO BURNER #5	Park	01-Jun-1990	31-Dec-1995
067	0016	25101	1	Dustfall Combustible (Sp)	BRAND S CORP, SILO BURNER #5	Park	01-Jun-1990	31-Dec-1995
067	0017	21101	1	Total Dustfall (Sp)	BRAND S CORP, SILO BURNER #6	Park	01-Jun-1990	31-Dec-1995
067	0017	25101	1	Dustfall Combustible (Sp)	BRAND S CORP, SILO BURNER #6	Park	01-Jun-1990	31-Dec-1995
067	0018	21101	1	Total Dustfall (Sp)	BRAND S CORP, SILO BURNER #7	Park	01-Jun-1990	31-Dec-1995
067	0018	25101	1	Dustfall Combustible (Sp)	BRAND S CORP, SILO BURNER #7	Park	01-Jun-1990	31-Dec-1995
071	0001	11101	1	Suspended Particulate (Tsp)	MULTU BLM	Phillips	01-Jan-1981	31-Dec-1985
071	0002	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	PEGASUS, ZORTMAN MINING, LANDUSKY #2	Phillips	24-Apr-1990	31-Dec-1997
071	0002	82103	1	Arsenic PM <sub>10</sub> Stp	PEGASUS, ZORTMAN MINING, LANDUSKY #2	Phillips	29-Apr-1990	31-Mar-1993
071	0002	82110	1	Cadmium PM <sub>10</sub> Stp	PEGASUS, ZORTMAN MINING, LANDUSKY #2	Phillips	29-Apr-1990	31-Dec-1991
071	0002	82112	1	Chromium PM <sub>10</sub> Stp	PEGASUS, ZORTMAN MINING, LANDUSKY #2	Phillips	29-Apr-1990	31-Mar-1993
071	0002	82128	1	Lead PM <sub>10</sub> Stp	PEGASUS, ZORTMAN MINING, LANDUSKY #2	Phillips	29-Apr-1990	31-Mar-1993
071	0002	82167	1	Zinc PM <sub>10</sub> Stp	PEGASUS, ZORTMAN MINING, LANDUSKY #2	Phillips	29-Apr-1990	31-Dec-1991
071	0002	85101	1	PM <sub>10</sub> - Lc	PEGASUS, ZORTMAN MINING, LANDUSKY #2	Phillips	01-Jan-1998	31-Dec-1998
071	0003	61101	1	Wind Speed	PEGASUS, ZORTMAN MINING, SULLIVAN PARK 3	Phillips	23-Apr-1990	31-Mar-1992
071	0003	61102	1	Wind Direction	PEGASUS, ZORTMAN MINING, SULLIVAN PARK 3	Phillips	23-Apr-1990	31-Mar-1992
071	0003	61106	1	Std Dev Hz Wind Direction	PEGASUS, ZORTMAN MINING, SULLIVAN PARK 3	Phillips	23-Apr-1990	31-Mar-1992
071	0003	62101	1	Outdoor Temperature	PEGASUS, ZORTMAN MINING, SULLIVAN PARK 3	Phillips	23-Apr-1990	31-Mar-1992
071	0003	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	PEGASUS, ZORTMAN MINING, SULLIVAN PARK 3	Phillips	05-May-1990	31-Mar-1993

011         003         82103         1         Arsenic PM- Stp         PEGASUS, ZORTMAN MINING, SULLUVAN PARK 3         Phillips         05-May-1990         31-Dec-1991           071         0003         82112         1         Chronium PMu Stp         PEGASUS, ZORTMAN MINING, SULLUVAN PARK 3         Phillips         05-May-1990         31-Mar-1993           071         0003         8212         1         Lead PMn Stp         PEGASUS, ZORTMAN MINING, SULLUVAN PARK 3         Phillips         05-May-1990         31-Mar-1993           071         0003         82167         1         Zinc PMu Stp         PEGASUS, ZORTMAN MINING, SULLUVAN PARK 3         Phillips         05-May-1990         31-Mar-1992           071         0004         61102         1         Wind Direction         PEGASUS, ZORTMAN MINING BONEYARD #4         Phillips         28-Mar-1990         31-Mar-1992           071         0004         62101         1         Outdoor Temperature         PEGASUS, ZORTMAN MINING BONEYARD #4         Phillips         28-Mar-1990         31-Mar-1992           071         0005         81102         1         Arsenic PMn Stp         ZORTMAN MINING BONEYARD #4         Phillips         17-May-1990         31-Dec-1991           071         0005         82103         1         Arsenic PMn S				_					
071         0003         82110         1         Commum PMw Sign         PEGASUS_ZORTMAN MININGS.SULLIVAN PARK 3         Phillips         05-May-1990         31-Dec-1991           071         0003         82128         1         Load PMu Sign         PEGASUS_ZORTMAN MINING, SULLIVAN PARK 3         Phillips         05-May-1990         31-Mar-1993           071         0004         82167         1         Load PMu, Sign         PEGASUS_ZORTMAN MINING, SULLIVAN PARK 3         Phillips         05-May-1990         31-Mar-1993           071         0004         61101         1         Wind Speed         PEGASUS_ZORTMAN MINING, SULLIVAN PARK 3         Phillips         28-Mar-1990         31-Mar-1992           071         0004         61106         1         Stid Dev Lz Wind Direction         PEGASUS_ZORTMAN MINING, BONEYARD 44         Phillips         28-Mar-1990         31-Mar-1992           071         0005         82103         1         Ortal 0-um Sign         ZORTMAN MINE, B, DOWNEY RESIDENCE         Phillips         17-May-1990         31-Mar-1992           071         0005         82103         1         Chronium PMu-Sign         ZORTMAN MINE #5, DOWNEY RESIDENCE         Phillips         17-May-1990         31-Mar-1993           071         0005         82104         1         Chr	071	0003	82103	1	Arsenic PM <sub>10</sub> Stp	PEGASUS, ZORTMAN MINING, SULLIVAN PARK 3	Phillips	05-May-1990	31-Dec-1991
011         003         82112         1         Chromium PMro Stp         PEGASUS, ZORTMAN MINING, SULLIVAN PARK.3         Philips         0.5-May-1990         31-Mar-1993           071         0003         82167         1         Zinc PMro Stp         PEGASUS, ZORTMAN MINING, SULLIVAN PARK.3         Philips         0.5-May-1990         31-Mar-1992           071         0004         61101         1         Wind Speed         PEGASUS, ZORTMAN MINING, SULLIVAN PARK.3         Philips         28-Mar-1990         31-Mar-1992           071         0004         61102         1         Wind Direction         PEGASUS, ZORTMAN MINING, BONEYARD #4         Philips         28-Mar-1990         31-Mar-1992           071         0004         6102         1         Outdoor Temperature         PEGASUS, ZORTMAN MINING, BONEYARD #4         Philips         28-Mar-1990         31-Mar-1992           071         0004         62101         1         Outdoor Temperature         PEGASUS, ZORTMAN MINE, BONEYARD #4         Philips         17-May-1990         31-Mar-1992           071         0005         82102         1         Araenice MMINE #5, DOWNEY RESIDENCE         Philips         17-May-1990         29-Dec-1991           071         0005         82110         1         Commium PMro, Stp         ZORTMAN	071	0003	82110	1	Cadmium PM <sub>10</sub> Stp	PEGASUS, ZORTMAN MINING, SULLIVAN PARK 3	Phillips	05-May-1990	31-Dec-1991
071         003         82128         1         Lead PMip Stp.         PEGASUS, ZORTMAN MINING, SULLUVAN PARK 3         Phillips         05-May-1990         31-Mar-1993           071         0004         61101         1         Wind Direction         PEGASUS, ZORTMAN MINING, BONEYARD #4         Phillips         02-Mar-1990         31-Mar-1992           0711         0004         61100         1         Wind Direction         PEGASUS, ZORTMAN MINING, BONEYARD #4         Phillips         28-Mar-1990         31-Mar-1992           0711         0004         61106         1         Std Dev Hz, Wind Direction         PEGASUS, ZORTMAN MINING, BONEYARD #4         Phillips         28-Mar-1990         31-Mar-1992           0711         0005         81102         1         Punctorian Tage         PEGASUS, ZORTMAN MINE, BONEYARD #4         Phillips         17-May-1990         31-Mar-1992           0711         0005         82103         1         Arsenic PM::s Stp         ZORTMAN MINE #5, DOWNEY RESIDENCE         Phillips         17-May-1990         31-Mar-1992           0711         0005         82103         1         Chronium PM::s Stp         ZORTMAN MINE #5, DOWNEY RESIDENCE         Phillips         17-May-1990         31-Mar-1993           0711         0005         82107         1 <td< td=""><td>071</td><td>0003</td><td>82112</td><td>1</td><td>Chromium PM<sub>10</sub> Stp</td><td>PEGASUS, ZORTMAN MINING, SULLIVAN PARK 3</td><td>Phillips</td><td>05-May-1990</td><td>31-Mar-1993</td></td<>	071	0003	82112	1	Chromium PM <sub>10</sub> Stp	PEGASUS, ZORTMAN MINING, SULLIVAN PARK 3	Phillips	05-May-1990	31-Mar-1993
071         003         82167         1         Zine PMitg Stp.         PEGASUS, ZORTMAN MINING, SULLIVAN PARK 3         Phillips         05-May-1900         31-Dec-1991           071         0004         61101         1         Wind Speed         PEGASUS, ZORTMAN MINING, BONEYARD #4         Phillips         28-Mar-1900         31-Mar-1992           071         0004         61106         1         Std Dev Hz Wind Direction         PEGASUS, ZORTMAN MINING, BONEYARD #4         Phillips         28-Mar-1990         31-Mar-1992           071         0004         61106         1         Std Dev Hz Wind Direction         PEGASUS, ZORTMAN MINING, BONEYARD #4         Phillips         28-Mar-1990         31-Mar-1992           0711         0005         82103         1         Pentiops         28-Mar-1990         31-Dec-1971           0711         0005         82103         1         Pentiops         ZORTMAN MINE #5, DOWNEY RESIDENCE         Phillips         17-May-1990         29-Dec-1991           0711         0005         82110         1         Lead PMin Stp         ZORTMAN MINE #5, DOWNEY RESIDENCE         Phillips         17-May-1990         31-Mar-1932           0711         0005         82107         1         Lead PMin Stp         ZORTMAN MINE #5, DOWNEY RESIDENCE         Phillips <td>071</td> <td>0003</td> <td>82128</td> <td>1</td> <td>Lead PM<sub>10</sub> Stp</td> <td>PEGASUS, ZORTMAN MINING, SULLIVAN PARK 3</td> <td>Phillips</td> <td>05-May-1990</td> <td>31-Mar-1993</td>	071	0003	82128	1	Lead PM <sub>10</sub> Stp	PEGASUS, ZORTMAN MINING, SULLIVAN PARK 3	Phillips	05-May-1990	31-Mar-1993
071         0004         61101         1         Wind Speed         PEGASUS, ZORTMAN MINING, BONEYARD #4         Phillips         28-Mar-1990         31-Mar-1992           071         0004         61102         1         Wind Direction         PEGASUS, ZORTMAN MINING, BONEYARD #4         Phillips         28-Mar-1990         31-Mar-1992           071         0004         62101         1         Outdoor Temperature         PEGASUS, ZORTMAN MINING, BONEYARD #4         Philips         28-Mar-1990         31-Mar-1992           071         0005         81102         1         Outdoor Temperature         PEGASUS, ZORTMAN MINING, BONEYARD #4         Philips         17-May-1900         31-Mar-1992           071         0005         82103         1         Arsenic PM <sub>0</sub> Stp         ZORTMAN MINE #5, DOWNEY RESIDENCE         Philips         17-May-1909         29-Dec-1991           071         0005         82110         1         Cadmium PM <sub>0</sub> Stp         ZORTMAN MINE #5, DOWNEY RESIDENCE         Philips         17-May-1909         31-Mar-1992           071         0005         82162         1         Lead PM <sub>0</sub> Stp         ZORTMAN MINE #5, DOWNEY RESIDENCE         Philips         17-May-1990         31-Mar-1993           071         0005         82161         1         Zordman MINING - SCHOU	071	0003	82167	1	Zinc PM <sub>10</sub> Stp	PEGASUS, ZORTMAN MINING, SULLIVAN PARK 3	Phillips	05-May-1990	31-Dec-1991
011         0004         61102         1         Wind Direction         PEGASUS, ZORTMAN MINING, BONEYARD #4         Phillips         28-Mar-1990         31-Mar-1992           071         0004         61106         1         Stu Dev Hz Wind Direction         PEGASUS, ZORTMAN MINING, BONEYARD #4         Phillips         28-Mar-1990         31-Mar-1992           0711         0005         81102         1         Putio Total 0-rum struture         PEGASUS, ZORTMAN MINING, BONEYARD #4         Phillips         28-Mar-1990         31-Mar-1992           0711         0005         82103         1         Putio Total 0-rum Stp         ZORTMAN MINE #5, DOWNEY RESIDENCE         Phillips         17-May-1990         29-Dec-1991           0711         0005         82112         1         Cadmium PMu Stp         ZORTMAN MINE #5, DOWNEY RESIDENCE         Phillips         17-May-1990         31-Mar-1990         31-Mar-1990           0711         0005         82126         1         Ladmium PMu Stp         ZORTMAN MINE #5, DOWNEY RESIDENCE         Philips         17-May-1990         31-Mar-1990         31-Mar-1990         31-Mar-1993           0711         0005         81101         1         Putio - Lc         ZORTMAN MINE #5, DOWNEY RESIDENCE         Philips         17-May-1990         31-Dec-1990         31-Dec-1993	071	0004	61101	1	Wind Speed	PEGASUS, ZORTMAN MINING,BONEYARD #4	Phillips	28-Mar-1990	31-Mar-1992
071         0004         61106         1         Sid Dev Hz Wind Direction         PEGASUS, ZORTMAN MINING, BONEYARD #4         Phillips         28-Mar-1990         31-Mar-1992           071         0004         62101         1         Outdoor Temperature         PEGASUS, ZORTMAN MINNE, BONEYARD #4         Phillips         28-Mar-1990         31-Mar-1992           071         0005         81102         1         Pristion Oran Stp         ZORTMAN MINE #5, DOWNEY RESIDENCE         Phillips         17-May-1990         29-Dec-1991           071         0005         82110         1         Cadmium PMn: Stp         ZORTMAN MINE #5, DOWNEY RESIDENCE         Phillips         17-May-1990         31-Mar-1993           071         0005         82112         1         Cadmium PMn: Stp         ZORTMAN MINE #5, DOWNEY RESIDENCE         Phillips         17-May-1990         31-Mar-1993           071         0005         82167         1         Zinc PMn: Stp         ZORTMAN MINE #5, DOWNEY RESIDENCE         Phillips         17-May-1990         31-Mar-1993           071         0005         82161         1         PMn: Stp         ZORTMAN MINE #5, DOWNEY RESIDENCE         Phillips         22-Jun-1990         31-Dec-1998           071         0006         81102         1         PMn: Total 0:rum Stp	071	0004	61102	1	Wind Direction	PEGASUS, ZORTMAN MINING,BONEYARD #4	Phillips	28-Mar-1990	31-Mar-1992
0011         0004         62101         1         Outdoor Temperature         PEGASUS, ZORTMAN MINING, BONEYARD #4         Phillips         28-Mar-1990         31-Mar-1990           0711         0005         81102         1         PMin_Total 0.cum Stp         ZORTMAN MINE #5, DOWNEY RESIDENCE         Phillips         17-May-1990         29-Dec-1991           0711         0005         82103         1         Arsenic PMin Stp         ZORTMAN MINE #5, DOWNEY RESIDENCE         Phillips         17-May-1990         29-Dec-1991           0711         0005         82112         1         Chronium PMin Stp         ZORTMAN MINE #5, DOWNEY RESIDENCE         Phillips         17-May-1990         31-Mar-1993           0711         0005         82167         1         Lead PMin Stp         ZORTMAN MINE #5, DOWNEY RESIDENCE         Phillips         17-May-1990         31-Mar-1993           0711         0005         82161         1         PMin Stp         ZORTMAN MINE #5, DOWNEY RESIDENCE         Phillips         17-May-1990         31-Dec-1993           0711         0006         82112         1         Arsenic PMin Stp         ZORTMAN MINING -SCHOOLHOUSE #6         Phillips         22-Jun-1990         31-Dec-1993           0711         0006         82112         1         Arsenic PMin Stp	071	0004	61106	1	Std Dev Hz Wind Direction	PEGASUS, ZORTMAN MINING,BONEYARD #4	Phillips	28-Mar-1990	31-Mar-1992
0011         0005         81102         1         PMII total 0 ruum Stp         ZORTMAN MINE #5, DOWNEY RESIDENCE         Phillips         17-May-1990         29-Dec-1991           071         0005         82103         1         Carnium PMi <sub>10</sub> Stp         ZORTMAN MINE #5, DOWNEY RESIDENCE         Phillips         17-May-1990         29-Dec-1991           0711         0005         82128         1         Chronium PMi <sub>10</sub> Stp         ZORTMAN MINE #5, DOWNEY RESIDENCE         Phillips         17-May-1990         31-Mar-1993           0711         0005         82128         1         Chronium PMi <sub>10</sub> Stp         ZORTMAN MINE #5, DOWNEY RESIDENCE         Phillips         17-May-1990         31-Mar-1993           0711         0005         82167         1         I.aca PMi <sub>10</sub> Stp         ZORTMAN MINE #5, DOWNEY RESIDENCE         Phillips         01-Jan-1998         31-Dec-1993           0711         0005         82107         1         I.aca PMi <sub>10</sub> Stp         ZORTMAN MINIG - SCHOOLHOUSE #6         Phillips         22-Jun-1900         31-Dec-1993           0711         0006         82112         1         Chronium PMi <sub>10</sub> Stp         ZORTMAN MINING - SCHOOLHOUSE #6         Phillips         22-Jun-1900         31-Dec-1993           0711         0006         82112         1         Chr	071	0004	62101	1	Outdoor Temperature	PEGASUS, ZORTMAN MINING, BONEYARD #4	Phillips	28-Mar-1990	31-Mar-1992
0005         82103         1         Asenic PM <sub>10</sub> Stp         ZORTMAN MINE #5, DOWNEY RESIDENCE         Phillips         17-May-1990         29-Dec-1911           071         0005         82110         1         Cadmium PM <sub>10</sub> Stp         ZORTMAN MINE #5, DOWNEY RESIDENCE         Phillips         17-May-1990         31-Mar-1993           071         0005         8212         1         Cadmium PM <sub>10</sub> Stp         ZORTMAN MINE #5, DOWNEY RESIDENCE         Phillips         17-May-1990         31-Mar-1993           071         0005         82167         1         Lead PM <sub>10</sub> Stp         ZORTMAN MINE #5, DOWNEY RESIDENCE         Phillips         17-May-1990         31-Mar-1993           071         0005         82107         1         Phillips         20-Dec-1911         20-Dec-1911           071         0006         81102         1         Phillips         ZORTMAN MINE #5, DOWNEY RESIDENCE         Phillips         22-Jun-1900         31-Dec-1993           071         0006         82103         1         Arsenic PM <sub>10</sub> Stp         ZORTMAN MINING - SCHOOLHOUSE #6         Phillips         22-Jun-1900         31-Dec-1993           071         0006         82112         1         Lead PM <sub>10</sub> Stp         ZORTMAN MINING - SCHOOLHOUSE #6         Phillips         22-Jun-1900         3	071	0005	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	ZORTMAN MINE #5, DOWNEY RESIDENCE	Phillips	17-May-1990	31-Dec-1997
0011         0005         82110         1         Cadmium PM <sub>10</sub> Stp         ZORTMAN MINE #5, DOWNEY RESIDENCE         Phillips         17-May-1990         31-Mar-1993           071         0005         82128         1         Lead PM <sub>10</sub> Stp         ZORTMAN MINE #5, DOWNEY RESIDENCE         Phillips         17-May-1990         31-Mar-1993           071         0005         82167         1         ZoRTMAN MINE #5, DOWNEY RESIDENCE         Phillips         17-May-1990         31-Mar-1993           071         0005         82101         1         PM <sub>10</sub> Stp         ZORTMAN MINE #5, DOWNEY RESIDENCE         Phillips         01-Jan-1998         31-Dec-1998           071         0006         81102         1         PM <sub>10</sub> Total 0:num Stp         ZORTMAN MINING - SCHOOLHOUSE #6         Phillips         22-Jun-1990         31-Dec-1998           071         0006         82110         1         Cadmium PM <sub>10</sub> Stp         ZORTMAN MINING - SCHOOLHOUSE #6         Phillips         22-Jun-1900         31-Dec-1993           071         0006         82110         1         Cadmium PM <sub>10</sub> Stp         ZORTMAN MINING - SCHOOLHOUSE #6         Phillips         22-Jun-1900         31-Mar-1993           071         0006         82126         1         Lead PM <sub>10</sub> Stp         ZORTMAN MINING - SCHOOLHOUSE	071	0005	82103	1	Arsenic PM <sub>10</sub> Stp	ZORTMAN MINE #5, DOWNEY RESIDENCE	Phillips	17-May-1990	29-Dec-1991
0011         0005         82112         1         Chromium PMn <sub>0</sub> Stp         ZORTMAN MINE #5, DOWNEY RESIDENCE         Phillips         17-May-1990         31-Mar-1933           071         0005         82128         1         Lead PMn <sub>0</sub> Stp         ZORTMAN MINE #5, DOWNEY RESIDENCE         Phillips         17-May-1990         29-Dec-1991           071         0005         82167         1         Zinc PMn <sub>0</sub> Stp         ZORTMAN MINE #5, DOWNEY RESIDENCE         Phillips         17-May-1990         29-Dec-1991           071         0006         81102         1         PMn <sub>1</sub> Otal 0 <sub>10</sub> um Stp         ZORTMAN MINE #5, DOWNEY RESIDENCE         Phillips         10-Jan-1993         31-Dec-1993           071         0006         81102         1         PMn <sub>1</sub> Otal 0 <sub>10</sub> um Stp         ZORTMAN MINIG - SCHOOLHOUSE #6         Phillips         22-Jun-1990         31-Dec-1993           071         0006         82112         1         Arsenic PMn <sub>10</sub> Stp         ZORTMAN MINING - SCHOOLHOUSE #6         Phillips         22-Jun-1990         31-Dec-1993           071         0006         82112         1         Chromium PMn <sub>10</sub> Stp         ZORTMAN MINING - SCHOOLHOUSE #6         Phillips         22-Jun-1990         31-Dec-1993           071         0006         82167         1         Lanc PMn <sub>0</sub>	071	0005	82110	1	Cadmium PM <sub>10</sub> Stp	ZORTMAN MINE #5, DOWNEY RESIDENCE	Phillips	17-May-1990	29-Dec-1991
0011         0005         82128         1         Lead PM <sub>10</sub> Stp         ZORTMAN MINE #5, DOWNEY RESIDENCE         Phillips         17-May-1990         31-Mar-1931           0711         0005         82167         1         Zinc PM <sub>10</sub> Stp         ZORTMAN MINE #5, DOWNEY RESIDENCE         Phillips         17-May-1990         29-Dec-1991           071         0005         85101         1         PM <sub>10</sub> Lc         ZORTMAN MINE #5, DOWNEY RESIDENCE         Phillips         01-Jan-1998         31-Dec-1993           071         0006         82103         1         PM <sub>10</sub> Total 0 <sub>10</sub> um Stp         ZORTMAN MINING - SCHOOLHOUSE #6         Phillips         22-Jun-1990         31-Dec-1993           071         0006         82103         1         Carmium PM <sub>10</sub> Stp         ZORTMAN MINING - SCHOOLHOUSE #6         Phillips         22-Jun-1990         31-Dec-1993           071         0006         82102         1         Carmium PM <sub>10</sub> Stp         ZORTMAN MINING - SCHOOLHOUSE #6         Phillips         22-Jun-1990         31-Mar-1993           071         0006         82167         1         Lead PM <sub>10</sub> Stp         ZORTMAN MINING - SCHOOLHOUSE #6         Phillips         22-Jun-1990         31-Mar-1993           071         0006         82163         1         Lead PM <sub>10</sub> Stp <t< td=""><td>071</td><td>0005</td><td>82112</td><td>1</td><td>Chromium PM<sub>10</sub> Stp</td><td>ZORTMAN MINE #5, DOWNEY RESIDENCE</td><td>Phillips</td><td>17-May-1990</td><td>31-Mar-1993</td></t<>	071	0005	82112	1	Chromium PM <sub>10</sub> Stp	ZORTMAN MINE #5, DOWNEY RESIDENCE	Phillips	17-May-1990	31-Mar-1993
0011         0005         82167         1         Zinc PM10 Stp         ZORTMAN MINE #5, DOWNEY RESIDENCE         Phillips         17-May-1990         29-Dec-1991           0711         0006         85101         1         PM10-LC         ZORTMAN MINE #5, DOWNEY RESIDENCE         Phillips         01-Jan-1998         31-Dec-1998           0711         0006         81102         1         PM10 Total 0100 MStp         ZORTMAN MINING - SCHOOLHOUSE #6         Phillips         22-Jun-1990         31-Dec-1993           071         0006         82103         1         Arsenic PM10 Stp         ZORTMAN MINING - SCHOOLHOUSE #6         Phillips         22-Jun-1990         31-Dec-1993           071         0006         82112         1         Cadmium PM10 Stp         ZORTMAN MINING - SCHOOLHOUSE #6         Phillips         22-Jun-1990         31-Dec-1993           071         0006         82167         1         Zinc PM10 Stp         ZORTMAN MINING - SCHOOLHOUSE #6         Phillips         22-Jun-1990         31-Mar-1993           071         0006         82167         1         Zinc PM10 Stp         ZORTMAN MINING - SCHOOLHOUSE #6         Phillips         22-Jun-1900         31-Mar-1993           071         0007         81102         1         Pm10 Total 01001 MT         ZORTMAN MIN	071	0005	82128	1	Lead PM <sub>10</sub> Stp	ZORTMAN MINE #5, DOWNEY RESIDENCE	Phillips	17-May-1990	31-Mar-1993
071         0005         85101         1         PM10 - LC         ZORTMAN MINE #5, DOWNEY RESIDENCE         Phillips         01-Jan-1998         31-Dec-1993           071         0006         81102         1         PM10 Total 010 m Stp         ZORTMAN MINING - SCHOOLHOUSE #6         Phillips         22-Jun-1990         31-Dec-1993           071         0006         82103         1         Arsenic PM10 Stp         ZORTMAN MINING - SCHOOLHOUSE #6         Phillips         22-Jun-1990         31-Dec-1993           071         0006         82112         1         Cdrmium PM10 Stp         ZORTMAN MINING - SCHOOLHOUSE #6         Phillips         22-Jun-1990         31-Mar-1993           071         0006         82112         1         Cdrmium PM10 Stp         ZORTMAN MINING - SCHOOLHOUSE #6         Phillips         22-Jun-1990         31-Mar-1993           071         0006         82128         1         Lead PM10 Stp         ZORTMAN MINING - SCHOOLHOUSE #6         Phillips         22-Jun-1990         31-Mar-1993           071         0006         82102         1         Philo Total 0 <sub>10</sub> um Stp         ZORTMAN MINING - SCHOOLHOUSE #6         Phillips         29-Jun-1990         31-Mar-1993           071         0007         8102         1         Ndno Totin Stp         ZORTMAN	071	0005	82167	1	Zinc PM <sub>10</sub> Stp	ZORTMAN MINE #5, DOWNEY RESIDENCE	Phillips	17-May-1990	29-Dec-1991
071         0006         81102         1         PMto Total 0toum Stp         ZORTMAN MINING - SCHOOLHOUSE #6         Phillips         22-Jun-1990         31-Dec-1993           071         0006         82103         1         Arsenic PMto Stp         ZORTMAN MINING - SCHOOLHOUSE #6         Phillips         22-Jun-1990         31-Dec-1993           071         0006         82112         1         Chromium PMto Stp         ZORTMAN MINING - SCHOOLHOUSE #6         Phillips         22-Jun-1990         31-Dec-1993           071         0006         82128         1         Lead PMto Stp         ZORTMAN MINING - SCHOOLHOUSE #6         Phillips         22-Jun-1990         31-Mar-1993           071         0006         82167         1         Iced PMto Stp         ZORTMAN MINING - SCHOOLHOUSE #6         Phillips         22-Jun-1990         31-Mar-1993           071         0006         82167         1         Iced PMto Stp         ZORTMAN MINING - SCHOOLHOUSE #6         Phillips         22-Jun-1900         31-Mar-1993           071         0007         81102         1         PMto Total 0toum Stp         ZORTMAN MINING - SCHOOLHOUSE #6         Phillips         29-Jun-1900         31-Mar-1993           071         0007         81102         1         PMto Total 0toum Stp         ZOR	071	0005	85101	1	PM <sub>10</sub> - Lc	ZORTMAN MINE #5, DOWNEY RESIDENCE	Phillips	01-Jan-1998	31-Dec-1998
071         0006         82103         1         Arsenic PM <sub>10</sub> Stp         ZORTMAN MINING - SCHOOLHOUSE #6         Phillips         22-Jun-1990         31-Dec-1993           071         0006         82110         1         Cadmium PM <sub>10</sub> Stp         ZORTMAN MINING - SCHOOLHOUSE #6         Phillips         22-Jun-1990         31-Dec-1993           071         0006         82128         1         Lead PM <sub>10</sub> Stp         ZORTMAN MINING - SCHOOLHOUSE #6         Phillips         22-Jun-1990         31-Mar-1993           071         0006         82167         1         Lead PM <sub>10</sub> Stp         ZORTMAN MINING - SCHOOLHOUSE #6         Phillips         22-Jun-1990         31-Dec-1993           071         0006         82167         1         Zinc PM <sub>10</sub> Stp         ZORTMAN MINING - SCHOOLHOUSE #6         Phillips         22-Jun-1990         31-Dec-1993           071         0007         81102         1         Philo Total 0:00 m Stp         ZORTMAN MINING - FRANCIS KOLCZAK #1         Phillips         29-Apr-1990         01-Mar-1993           071         0007         82103         1         Arsenic PM <sub>10</sub> Stp         ZORTMAN MINING-FRANCIS KOLCZAK #1         Phillips         29-Apr-1990         31-Mar-1993           071         0007         82112         1         Cadmium PM <sub>10</sub> Stp	071	0006	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	ZORTMAN MINING - SCHOOLHOUSE #6	Phillips	22-Jun-1990	31-Dec-1993
071         0006         82110         1         Cadmium PM <sub>10</sub> Stp         ZORTMAN MINING - SCHOOLHOUSE #6         Phillips         22-Jun-1990         31-Dec-1993           071         0006         82112         1         Chromium PM <sub>10</sub> Stp         ZORTMAN MINING - SCHOOLHOUSE #6         Phillips         22-Jun-1990         31-Mar-1993           0711         0006         82128         1         Lead PM <sub>10</sub> Stp         ZORTMAN MINING - SCHOOLHOUSE #6         Phillips         22-Jun-1990         31-Dec-1993           0711         0006         82167         1         Zind PM <sub>10</sub> Stp         ZORTMAN MINING - SCHOOLHOUSE #6         Phillips         22-Jun-1990         31-Dec-1993           0711         0007         81102         1         Zind PM <sub>10</sub> Stp         ZORTMAN MINING - SCHOOLHOUSE #6         Phillips         29-Apr-1990         01-May-1997           0711         0007         81102         1         Philo Total 0 <sub>10</sub> um Stp         ZORTMAN MINING - FRANCIS KOLCZAK #1         Phillips         29-Apr-1990         01-Jan-1992           0711         0007         82112         1         Cadmium PM <sub>10</sub> Stp         ZORTMAN MINING-FRANCIS KOLCZAK #1         Phillips         29-Apr-1990         31-Mar-1993           0711         0007         82116         1         Lead PM <sub>10</sub> Stp <td>071</td> <td>0006</td> <td>82103</td> <td>1</td> <td>Arsenic PM<sub>10</sub> Stp</td> <td>ZORTMAN MINING - SCHOOLHOUSE #6</td> <td>Phillips</td> <td>22-Jun-1990</td> <td>31-Dec-1993</td>	071	0006	82103	1	Arsenic PM <sub>10</sub> Stp	ZORTMAN MINING - SCHOOLHOUSE #6	Phillips	22-Jun-1990	31-Dec-1993
071         0006         82112         1         Chromium PM10 Stp         ZORTMAN MINING - SCHOOLHOUSE #6         Phillips         22-Jun-1990         31-Mar-1993           071         0006         82128         1         Lead PM10 Stp         ZORTMAN MINING - SCHOOLHOUSE #6         Phillips         22-Jun-1990         31-Mar-1993           071         0006         82167         1         Zinc PM10 Stp         ZORTMAN MINING - SCHOOLHOUSE #6         Phillips         22-Jun-1990         31-Dec-1993           071         0007         81102         1         PM10 Total 010 m Stp         ZORTMAN MINING - SCHOOLHOUSE #6         Phillips         29-Apr-1990         01-May-1997           071         0007         81102         1         PM10 Total 010 m Stp         ZORTMAN MINING-FRANCIS KOLCZAK #1         Phillips         29-Apr-1990         31-Mar-1993           071         0007         82112         1         Arsenic PM10 Stp         ZORTMAN MINING-FRANCIS KOLCZAK #1         Phillips         29-Apr-1990         01-Jan-1992           0711         0007         82112         1         Chromium PM10 Stp         ZORTMAN MINING-FRANCIS KOLCZAK #1         Phillips         29-Apr-1990         31-Mar-1993           0711         0007         82167         1         Lead PM10 Stp <t< td=""><td>071</td><td>0006</td><td>82110</td><td>1</td><td>Cadmium PM<sub>10</sub> Stp</td><td>ZORTMAN MINING - SCHOOLHOUSE #6</td><td>Phillips</td><td>22-Jun-1990</td><td>31-Dec-1993</td></t<>	071	0006	82110	1	Cadmium PM <sub>10</sub> Stp	ZORTMAN MINING - SCHOOLHOUSE #6	Phillips	22-Jun-1990	31-Dec-1993
071         0006         82128         1         Lead PM10 Stp         ZORTMAN MINING - SCHOOLHOUSE #6         Phillips         22-Jun-1900         31-Mar-1993           071         0006         82167         1         Zinc PM10 Stp         ZORTMAN MINING - SCHOOLHOUSE #6         Phillips         22-Jun-1900         31-Dec-1993           071         0007         81102         1         PM10 Total 010 m Stp         ZORTMAN MINING - FRANCIS KOLCZAK #1         Phillips         29-Apr-1900         01-May-1997           071         0007         82110         1         Arsenic PM10 Stp         ZORTMAN MINING - FRANCIS KOLCZAK #1         Phillips         29-Apr-1900         01-Jan-1992           071         0007         82112         1         Cadmium PM10 Stp         ZORTMAN MINING - FRANCIS KOLCZAK #1         Phillips         29-Apr-1900         01-Jan-1992           071         0007         82128         1         Cadmium PM10 Stp         ZORTMAN MINING - FRANCIS KOLCZAK #1         Phillips         29-Apr-1900         31-Mar-1993           071         0007         82167         1         Lead PM10 Stp         ZORTMAN MINING - FRANCIS KOLCZAK #1         Phillips         29-Apr-1900         31-Mar-1993           071         0007         82167         1         Lead PM10 Stp	071	0006	82112	1	Chromium PM <sub>10</sub> Stp	ZORTMAN MINING - SCHOOLHOUSE #6	Phillips	22-Jun-1990	31-Mar-1993
071         0006         82167         1         Zinc PM10 Stp         ZORTMAN MINING - SCHOOLHOUSE #6         Phillips         22-Jun-1990         31-Dec-1993           071         0007         81102         1         PM10 Total 0 10 um Stp         ZORTMAN MINING - FRANCIS KOLCZAK #1         Phillips         29-Apr-1990         31-Mar-1993           071         0007         82103         1         Arsenic PM10 Stp         ZORTMAN MINING - FRANCIS KOLCZAK #1         Phillips         29-Apr-1990         31-Mar-1993           071         0007         82110         1         Cadmium PM10 Stp         ZORTMAN MINING - FRANCIS KOLCZAK #1         Phillips         29-Apr-1990         31-Mar-1993           071         0007         82112         1         Cadmium PM10 Stp         ZORTMAN MINING - FRANCIS KOLCZAK #1         Phillips         29-Apr-1990         31-Mar-1993           071         0007         82128         1         Lead PM10 Stp         ZORTMAN MINING - FRANCIS KOLCZAK #1         Phillips         29-Apr-1990         31-Mar-1993           071         0007         82167         1         Lead PM10 Stp         ZORTMAN MINING - FRANCIS KOLCZAK #1         Phillips         29-Apr-190         31-Mar-1993           071         0008         61101         1         Vind Speed	071	0006	82128	1	Lead PM <sub>10</sub> Stp	ZORTMAN MINING - SCHOOLHOUSE #6	Phillips	22-Jun-1990	31-Mar-1993
071         0007         81102         1         PM10 Total 010 um Stp         ZORTMAN MINING-FRANCIS KOLCZAK #1         Phillips         29-Apr-1990         01-May-1997           071         0007         82103         1         Arsenic PM10 Stp         ZORTMAN MINING-FRANCIS KOLCZAK #1         Phillips         29-Apr-1990         31-Mar-1993           071         0007         82110         1         Cadmium PM10 Stp         ZORTMAN MINING-FRANCIS KOLCZAK #1         Phillips         29-Apr-1990         01-Jan-1992           071         0007         82112         1         Chromium PM10 Stp         ZORTMAN MINING-FRANCIS KOLCZAK #1         Phillips         29-Apr-1990         31-Mar-1993           071         0007         82128         1         Lead PM10 Stp         ZORTMAN MINING-FRANCIS KOLCZAK #1         Phillips         29-Apr-1990         31-Mar-1993           071         0007         82167         1         Lead PM10 Stp         ZORTMAN MINING-FRANCIS KOLCZAK #1         Phillips         29-Apr-1990         31-Mar-1993           071         0007         82167         1         Zinc PM10 Stp         ZORTMAN MINING-FRANCIS KOLCZAK #1         Phillips         01-Sep-1990         31-Dec-1994           071         0008         61101         1         Vind Speed         ZO	071	0006	82167	1	Zinc PM <sub>10</sub> Stp	ZORTMAN MINING - SCHOOLHOUSE #6	Phillips	22-Jun-1990	31-Dec-1993
071         0007         82103         1         Arsenic PM10 Stp         ZORTMAN MINING-FRANCIS KOLCZAK #1         Phillips         29-Apr-1990         31-Mar-1993           071         0007         82110         1         Cadmium PM10 Stp         ZORTMAN MINING-FRANCIS KOLCZAK #1         Phillips         29-Apr-1990         01-Jan-1992           071         0007         82112         1         Chromium PM10 Stp         ZORTMAN MINING-FRANCIS KOLCZAK #1         Phillips         29-Apr-1990         31-Mar-1993           071         0007         82128         1         Lead PM10 Stp         ZORTMAN MINING-FRANCIS KOLCZAK #1         Phillips         29-Apr-1990         31-Mar-1993           071         0007         82167         1         Lead PM10 Stp         ZORTMAN MINING-FRANCIS KOLCZAK #1         Phillips         29-Apr-1990         31-Mar-1993           071         0007         82167         1         Lead PM10 Stp         ZORTMAN MINING-FRANCIS KOLCZAK #1         Phillips         29-Apr-1990         01-Jan-1992           071         0007         82167         1         Vind Speed         ZORTMAN-SQUARE BUTTE #7, ZORTMAN         Phillips         01-Sep-1990         31-Dec-1994           071         0008         61102         1         Wind Direction         ZORTMAN-SQ	071	0007	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	ZORTMAN MINING-FRANCIS KOLCZAK #1	Phillips	29-Apr-1990	01-May-1997
071         0007         82110         1         Cadmium PM10 Stp         ZORTMAN MINING-FRANCIS KOLCZAK #1         Phillips         29-Apr-1990         01-Jan-1992           071         0007         82112         1         Chromium PM10 Stp         ZORTMAN MINING-FRANCIS KOLCZAK #1         Phillips         29-Apr-1990         31-Mar-1993           071         0007         82128         1         Lead PM10 Stp         ZORTMAN MINING-FRANCIS KOLCZAK #1         Phillips         29-Apr-1990         31-Mar-1993           071         0007         82167         1         Lead PM10 Stp         ZORTMAN MINING-FRANCIS KOLCZAK #1         Phillips         29-Apr-1990         01-Jan-1992           071         0007         82167         1         Zinc PM10 Stp         ZORTMAN MINING-FRANCIS KOLCZAK #1         Phillips         29-Apr-1990         01-Jan-1992           071         0008         61101         1         Vind Speed         ZORTMAN-SQUARE BUTTE #7, ZORTMAN         Phillips         01-Sep-1990         31-Dec-1994           071         0008         61102         1         Wind Direction         ZORTMAN-SQUARE BUTTE #7, ZORTMAN         Phillips         01-Sep-1990         31-Dec-1994           071         0008         61106         1         Std Dev Hz Wind Direction         ZO	071	0007	82103	1	Arsenic PM <sub>10</sub> Stp	ZORTMAN MINING-FRANCIS KOLCZAK #1	Phillips	29-Apr-1990	31-Mar-1993
071         0007         82112         1         Chromium PM10 Stp         ZORTMAN MINING-FRANCIS KOLCZAK #1         Phillips         29-Apr-1990         31-Mar-1993           071         0007         82128         1         Lead PM10 Stp         ZORTMAN MINING-FRANCIS KOLCZAK #1         Phillips         29-Apr-1990         31-Mar-1993           071         0007         82167         1         Zinc PM10 Stp         ZORTMAN MINING-FRANCIS KOLCZAK #1         Phillips         29-Apr-1990         01-Jan-1992           071         0007         82167         1         Zinc PM10 Stp         ZORTMAN MINING-FRANCIS KOLCZAK #1         Phillips         29-Apr-1990         01-Jan-1992           071         0008         61101         1         Vind Speed         ZORTMAN SQUARE BUTTE #7, ZORTMAN         Phillips         01-Sep-1990         31-Dec-1994           071         0008         61102         1         Vind Direction         ZORTMAN-SQUARE BUTTE #7, ZORTMAN         Phillips         01-Sep-1990         31-Dec-1994           071         0008         61106         1         Std Dev Hz Wind Direction         ZORTMAN-SQUARE BUTTE #7, ZORTMAN         Phillips         01-Sep-1990         31-Dec-1994           071         0008         81102         1         PM10 Total 010 m Stp <td< td=""><td>071</td><td>0007</td><td>82110</td><td>1</td><td>Cadmium PM<sub>10</sub> Stp</td><td>ZORTMAN MINING-FRANCIS KOLCZAK #1</td><td>Phillips</td><td>29-Apr-1990</td><td>01-Jan-1992</td></td<>	071	0007	82110	1	Cadmium PM <sub>10</sub> Stp	ZORTMAN MINING-FRANCIS KOLCZAK #1	Phillips	29-Apr-1990	01-Jan-1992
071         0007         82128         1         Lead PM <sub>10</sub> Stp         ZORTMAN MINING-FRANCIS KOLCZAK #1         Phillips         29-Apr-1990         31-Mar-1993           071         0007         82167         1         Zinc PM <sub>10</sub> Stp         ZORTMAN MINING-FRANCIS KOLCZAK #1         Phillips         29-Apr-1990         01-Jan-1992           071         0008         61101         1         Vind Speed         ZORTMAN-SQUARE BUTTE #7, ZORTMAN         Phillips         01-Sep-1990         31-Dec-1994           071         0008         61102         1         Wind Direction         ZORTMAN-SQUARE BUTTE #7, ZORTMAN         Phillips         01-Sep-1990         31-Dec-1994           071         0008         61102         1         Std Dev Hz Wind Direction         ZORTMAN-SQUARE BUTTE #7, ZORTMAN         Phillips         01-Sep-1990         31-Dec-1994           071         0008         61106         1         Std Dev Hz Wind Direction         ZORTMAN-SQUARE BUTTE #7, ZORTMAN         Phillips         01-Sep-1990         31-Dec-1994           071         0008         81102         1         PM <sub>10</sub> Total 0 <sub>10</sub> um Stp         ZORTMAN-SQUARE BUTTE #7, ZORTMAN         Phillips         01-Sep-1990         31-Dec-1994           071         0008         82103         1         Arsenic PM <sub>10</sub> S	071	0007	82112	1	Chromium PM <sub>10</sub> Stp	ZORTMAN MINING-FRANCIS KOLCZAK #1	Phillips	29-Apr-1990	31-Mar-1993
071         0007         82167         1         Zinc PM10 Stp         ZORTMAN MINING-FRANCIS KOLCZAK #1         Phillips         29-Apr-1990         01-Jan-1992           071         0008         61101         1         Wind Speed         ZORTMAN-SQUARE BUTTE #7, ZORTMAN         Phillips         01-Sep-1990         31-Dec-1994           071         0008         61102         1         Wind Direction         ZORTMAN-SQUARE BUTTE #7, ZORTMAN         Phillips         01-Sep-1990         31-Dec-1994           071         0008         61106         1         Std Dev Hz Wind Direction         ZORTMAN-SQUARE BUTTE #7, ZORTMAN         Phillips         01-Sep-1990         31-Dec-1994           071         0008         61106         1         Std Dev Hz Wind Direction         ZORTMAN-SQUARE BUTTE #7, ZORTMAN         Phillips         01-Sep-1990         31-Dec-1994           071         0008         81102         1         PM10 Total 010 UT Stp         ZORTMAN-SQUARE BUTTE #7, ZORTMAN         Phillips         01-Sep-1990         31-Dec-1994           071         0008         82103         1         PM10 Total 010 UT Stp         ZORTMAN-SQUARE BUTTE #7, ZORTMAN         Phillips         02-Oct-1990         31-Dec-1993	071	0007	82128	1	Lead PM <sub>10</sub> Stp	ZORTMAN MINING-FRANCIS KOLCZAK #1	Phillips	29-Apr-1990	31-Mar-1993
071         0008         61101         1         Wind Speed         ZORTMAN-SQUARE BUTTE #7, ZORTMAN         Phillips         01-Sep-1990         31-Dec-1994           071         0008         61102         1         Wind Direction         ZORTMAN-SQUARE BUTTE #7, ZORTMAN         Phillips         01-Sep-1990         31-Dec-1994           071         0008         61106         1         Std Dev Hz Wind Direction         ZORTMAN-SQUARE BUTTE #7, ZORTMAN         Phillips         01-Sep-1990         31-Dec-1994           071         0008         81102         1         Std Dev Hz Wind Direction         ZORTMAN-SQUARE BUTTE #7, ZORTMAN         Phillips         01-Sep-1990         31-Dec-1994           071         0008         81102         1         PM10 Total 010 m Stp         ZORTMAN-SQUARE BUTTE #7, ZORTMAN         Phillips         01-Sep-1990         31-Dec-1994           071         0008         82103         1         Arsenic PM10 Stp         ZORTMAN-SQUARE BUTTE #7, ZORTMAN         Phillips         02-Oct-1990         31-Dec-1993	071	0007	82167	1	Zinc PM <sub>10</sub> Stp	ZORTMAN MINING-FRANCIS KOLCZAK #1	Phillips	29-Apr-1990	01-Jan-1992
071         0008         61102         1         Wind Direction         ZORTMAN-SQUARE BUTTE #7, ZORTMAN         Phillips         01-Sep-1990         31-Dec-1994           071         0008         61106         1         Std Dev Hz Wind Direction         ZORTMAN-SQUARE BUTTE #7, ZORTMAN         Phillips         01-Sep-1990         31-Dec-1994           071         0008         81102         1         PM10 Total 010 m Stp         ZORTMAN-SQUARE BUTTE #7, ZORTMAN         Phillips         01-Sep-1990         31-Dec-1994           071         0008         82103         1         PM10 Total 010 m Stp         ZORTMAN-SQUARE BUTTE #7, ZORTMAN         Phillips         01-Sep-1990         31-Dec-1994           071         0008         82103         1         Arsenic PM10 Stp         ZORTMAN-SQUARE BUTTE #7, ZORTMAN         Phillips         02-Oct-1990         31-Dec-1993	071	8000	61101	1	Wind Speed	ZORTMAN-SQUARE BUTTE #7, ZORTMAN	Phillips	01-Sep-1990	31-Dec-1994
071         0008         61106         1         Std Dev Hz Wind Direction         ZORTMAN-SQUARE BUTTE #7, ZORTMAN         Phillips         01-Sep-1990         31-Dec-1994           071         0008         81102         1         PM10 Total 010 m Stp         ZORTMAN-SQUARE BUTTE #7, ZORTMAN         Phillips         01-Sep-1990         31-Dec-1994           071         0008         82103         1         Arsenic PM10 Stp         ZORTMAN-SQUARE BUTTE #7, ZORTMAN         Phillips         02-Oct-1990         31-Dec-1993	071	8000	61102	1	Wind Direction	ZORTMAN-SQUARE BUTTE #7, ZORTMAN	Phillips	01-Sep-1990	31-Dec-1994
071         0008         81102         1         PM10 Total 010 um Stp         ZORTMAN-SQUARE BUTTE #7, ZORTMAN         Phillips         01-Sep-1990         31-Dec-1994           071         0008         82103         1         Arsenic PM10 Stp         ZORTMAN-SQUARE BUTTE #7, ZORTMAN         Phillips         02-Oct-1990         31-Dec-1993	071	0008	61106	1	Std Dev Hz Wind Direction	ZORTMAN-SQUARE BUTTE #7, ZORTMAN	Phillips	01-Sep-1990	31-Dec-1994
071         0008         82103         1         Arsenic PM <sub>10</sub> Stp         ZORTMAN-SQUARE BUTTE #7, ZORTMAN         Phillips         02-Oct-1990         31-Dec-1993	071	0008	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	ZORTMAN-SQUARE BUTTE #7, ZORTMAN	Phillips	01-Sep-1990	31-Dec-1994
	071	8000	82103	1	Arsenic PM <sub>10</sub> Stp	ZORTMAN-SQUARE BUTTE #7, ZORTMAN	Phillips	02-Oct-1990	31-Dec-1993

071	0008	82110	1	Cadmium PM <sub>10</sub> Stp	ZORTMAN-SQUARE BUTTE #7, ZORTMAN	Phillips	02-Oct-1990	31-Dec-1993
071	0008	82112	1	Chromium PM <sub>10</sub> Stp	ZORTMAN-SQUARE BUTTE #7, ZORTMAN	Phillips	02-Oct-1990	31-Mar-1993
071	0008	82128	1	Lead PM <sub>10</sub> Stp	ZORTMAN-SQUARE BUTTE #7, ZORTMAN	Phillips	02-Oct-1990	31-Mar-1993
071	0008	82167	1	Zinc PM <sub>10</sub> Stp	ZORTMAN-SQUARE BUTTE #7, ZORTMAN	Phillips	02-Oct-1990	31-Dec-1991
071	0009	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	ZORTMAN-UPPER ALDER GULCH	Phillips	01-Apr-1993	01-May-1997
075	0006	11101	1	Suspended Particulate (Tsp)	LAFLAMME,718 S LINCOLN	Powder River	01-Jan-1972	31-Dec-1973
075	0006	11103	1	Benzene Sol.Organics(TSP)	LAFLAMME,718 S LINCOLN	Powder River	01-Jan-1972	31-Dec-1973
075	0006	12110	1	Cadmium (Tsp) Stp	LAFLAMME,718 S LINCOLN	Powder River	01-Jan-1972	31-Dec-1973
075	0006	12128	1	Lead (Tsp) Stp	LAFLAMME,718 S LINCOLN	Powder River	01-Jan-1972	31-Dec-1973
075	0006	12167	1	Zinc (Tsp) Stp	LAFLAMME,718 S LINCOLN	Powder River	01-Jan-1972	31-Dec-1973
075	0008	11101	1	Suspended Particulate (Tsp)	NEAR FORT HOWES RANGER STATION	Powder River	01-Jan-1974	31-Dec-1978
075	0008	12103	1	Arsenic (Tsp) Stp	NEAR FORT HOWES RANGER STATION	Powder River	01-Jan-1977	31-Dec-1978
075	0008	12105	1	Beryllium (Tsp) Stp	NEAR FORT HOWES RANGER STATION	Powder River	01-Jan-1977	31-Dec-1978
075	0008	12105	2	Beryllium (Tsp) Stp	NEAR FORT HOWES RANGER STATION	Powder River	01-Jan-1975	31-Dec-1976
075	0008	12107	1	Barium (Tsp) Stp	NEAR FORT HOWES RANGER STATION	Powder River	01-Jan-1977	31-Dec-1978
075	0008	12110	2	Cadmium (Tsp) Stp	NEAR FORT HOWES RANGER STATION	Powder River	01-Jan-1975	31-Dec-1976
075	0008	12110	1	Cadmium (Tsp) Stp	NEAR FORT HOWES RANGER STATION	Powder River	01-Jan-1977	31-Dec-1978
075	0008	12112	1	Chromium (Tsp) Stp	NEAR FORT HOWES RANGER STATION	Powder River	01-Jan-1975	31-Dec-1976
075	0008	12112	2	Chromium (Tsp) Stp	NEAR FORT HOWES RANGER STATION	Powder River	01-Jan-1977	31-Dec-1978
075	0008	12113	1	Cobalt (Tsp) Stp	NEAR FORT HOWES RANGER STATION	Powder River	01-Jan-1975	31-Dec-1976
075	0008	12113	2	Cobalt (Tsp) Stp	NEAR FORT HOWES RANGER STATION	Powder River	01-Jan-1977	31-Dec-1978
075	0008	12114	2	Copper (Tsp) Stp	NEAR FORT HOWES RANGER STATION	Powder River	01-Jan-1975	31-Dec-1976
075	0008	12114	1	Copper (Tsp) Stp	NEAR FORT HOWES RANGER STATION	Powder River	01-Jan-1977	31-Dec-1978
075	0008	12126	2	Iron (Tsp) Stp	NEAR FORT HOWES RANGER STATION	Powder River	01-Jan-1975	31-Dec-1976
075	0008	12126	1	Iron (Tsp) Stp	NEAR FORT HOWES RANGER STATION	Powder River	01-Jan-1977	31-Dec-1978
075	0008	12128	2	Lead (Tsp) Stp	NEAR FORT HOWES RANGER STATION	Powder River	01-Jan-1975	31-Dec-1975
075	0008	12128	3	Lead (Tsp) Stp	NEAR FORT HOWES RANGER STATION	Powder River	01-Jan-1975	31-Dec-1975
075	0008	12128	1	Lead (Tsp) Stp	NEAR FORT HOWES RANGER STATION	Powder River	01-Jan-1977	31-Dec-1978
075	0008	12132	1	Manganese (Tsp) Stp	NEAR FORT HOWES RANGER STATION	Powder River	01-Jan-1977	31-Dec-1978
075	0008	12132	2	Manganese (Tsp) Stp	NEAR FORT HOWES RANGER STATION	Powder River	01-Jan-1975	31-Dec-1976
075	0008	12134	1	Molybdenum (Tsp) Stp	NEAR FORT HOWES RANGER STATION	Powder River	01-Jan-1977	31-Dec-1978
075	0008	12136	2	Nickel (Tsp) Stp	NEAR FORT HOWES RANGER STATION	Powder River	01-Jan-1975	31-Dec-1976
075	0008	12136	1	Nickel (Tsp) Stp	NEAR FORT HOWES RANGER STATION	Powder River	01-Jan-1977	31-Dec-1978

075	0008	12161	1	Titanium (Tsp) Stp	NEAR FORT HOWES RANGER STATION	Powder River	01-Jan-1975	31-Dec-1976
075	0008	12164	1	Vanadium (Tsp) Stp	NEAR FORT HOWES RANGER STATION	Powder River	01-Jan-1977	31-Dec-1978
075	0008	12164	2	Vanadium (Tsp) Stp	NEAR FORT HOWES RANGER STATION	Powder River	01-Jan-1975	31-Dec-1976
075	0008	12167	1	Zinc (Tsp) Stp	NEAR FORT HOWES RANGER STATION	Powder River	01-Jan-1977	31-Dec-1978
075	0008	12301	1	Ammonium (Tsp) Stp	NEAR FORT HOWES RANGER STATION	Powder River	01-Jan-1975	31-Dec-1977
075	0008	12306	1	Nitrate (Tsp) Stp	NEAR FORT HOWES RANGER STATION	Powder River	01-Jan-1975	31-Dec-1978
075	0008	12403	1	Sulfate (Tsp) Stp	NEAR FORT HOWES RANGER STATION	Powder River	01-Jan-1975	31-Dec-1978
075	0009	11101	1	Suspended Particulate (Tsp)	RANDALL RANCH, 4 MI SW BROADUS	Powder River	01-Jan-1974	31-Dec-1978
075	0009	61101	1	Wind Speed	RANDALL RANCH, 4 MI SW BROADUS	Powder River	01-Jan-1976	31-Dec-1976
075	0009	61102	1	Wind Direction	RANDALL RANCH, 4 MI SW BROADUS	Powder River	01-Jan-1976	31-Dec-1976
077	0001	11101	1	Suspended Particulate (Tsp)	POWELL CO COURTHOUSE,Cottonwood & Mo. Ave	Powell	01-Jan-1971	31-Dec-1986
077	0001	11103	1	Benzene Sol.Organics(TSP)	POWELL CO COURTHOUSE,Cottonwood & Mo. Ave	Powell	01-Jan-1971	31-Dec-1986
077	0001	12103	1	Arsenic (Tsp) Stp	POWELL CO COURTHOUSE,Cottonwood & Mo. Ave	Powell	01-Jan-1971	31-Dec-1986
077	0001	12110	1	Cadmium (Tsp) Stp	POWELL CO COURTHOUSE,Cottonwood & Mo. Ave	Powell	01-Jan-1971	31-Dec-1986
077	0001	12128	1	Lead (Tsp) Stp	POWELL CO COURTHOUSE,Cottonwood & Mo. Ave	Powell	01-Jan-1971	31-Dec-1986
077	0001	12167	1	Zinc (Tsp) Stp	POWELL CO COURTHOUSE,Cottonwood & Mo. Ave	Powell	01-Jan-1971	31-Dec-1986
077	0001	12403	1	Sulfate (Tsp) Stp	POWELL CO COURTHOUSE,Cottonwood & Mo. Ave	Powell	01-Jan-1971	31-Dec-1986
077	0002	11101	1	Suspended Particulate (Tsp)	DEER LODGE CITY HALL	Powell	01-Jan-1971	31-Dec-1971
077	0002	11103	1	Benzene Sol.Organics(TSP)	DEER LODGE CITY HALL	Powell	01-Jan-1971	31-Dec-1971
077	0002	12103	1	Arsenic (Tsp) Stp	DEER LODGE CITY HALL	Powell	01-Jan-1971	31-Dec-1971
077	0002	12110	1	Cadmium (Tsp) Stp	DEER LODGE CITY HALL	Powell	01-Jan-1971	31-Dec-1971
077	0002	12128	1	Lead (Tsp) Stp	DEER LODGE CITY HALL	Powell	01-Jan-1971	31-Dec-1971
077	0002	12167	1	Zinc (Tsp) Stp	DEER LODGE CITY HALL	Powell	01-Jan-1971	31-Dec-1971
077	0002	12202	1	Fluoride (Tsp) Stp	DEER LODGE CITY HALL	Powell	01-Jan-1971	31-Dec-1971
077	0002	12209	1	Fluoride (Paper Samplers)	DEER LODGE CITY HALL	Powell	01-Jan-1971	31-Dec-1971
077	0002	12403	1	Sulfate (Tsp) Stp	DEER LODGE CITY HALL	Powell	01-Jan-1971	31-Dec-1971
077	0005	11101	1	Suspended Particulate (Tsp)	LAHMAN RESIDENCE SOUTH OF GARRISON	Powell	01-Jan-1971	31-Dec-1975
077	0018	11101	1	Suspended Particulate (Tsp)	GERDTS RESIDENCE	Powell	01-Jan-1975	31-Dec-1975
077	0024	11101	1	Suspended Particulate (Tsp)	TERRY SMITH RANCH, OVANDO	Powell	01-Jan-1980	31-Dec-1987
077	0024	12103	1	Arsenic (Tsp) Stp	TERRY SMITH RANCH, OVANDO	Powell	01-Jan-1986	01-Oct-1987
077	0024	12105	1	Beryllium (Tsp) Stp	TERRY SMITH RANCH, OVANDO	Powell	01-Jan-1986	01-Oct-1987
077	0024	12107	1	Barium (Tsp) Stp	TERRY SMITH RANCH, OVANDO	Powell	01-Jan-1986	01-Oct-1987
077	0024	12110	1	Cadmium (Tsp) Stp	TERRY SMITH RANCH, OVANDO	Powell	01-Jan-1986	01-Oct-1987

077	0024	12112	1	Chromium (Tsp) Stp	TERRY SMITH RANCH, OVANDO	Powell	01-Jan-1986	01-Oct-1987
077	0024	12113	1	Cobalt (Tsp) Stp	TERRY SMITH RANCH, OVANDO	Powell	01-Jan-1986	01-Oct-1987
077	0024	12114	1	Copper (Tsp) Stp	TERRY SMITH RANCH, OVANDO	Powell	01-Jan-1986	01-Oct-1987
077	0024	12126	1	Iron (Tsp) Stp	TERRY SMITH RANCH, OVANDO	Powell	01-Jan-1986	01-Oct-1987
077	0024	12128	1	Lead (Tsp) Stp	TERRY SMITH RANCH, OVANDO	Powell	01-Jan-1986	01-Oct-1987
077	0024	12132	1	Manganese (Tsp) Stp	TERRY SMITH RANCH, OVANDO	Powell	01-Jan-1986	01-Oct-1987
077	0024	12134	1	Molybdenum (Tsp) Stp	TERRY SMITH RANCH, OVANDO	Powell	01-Jan-1986	01-Oct-1987
077	0024	12136	1	Nickel (Tsp) Stp	TERRY SMITH RANCH, OVANDO	Powell	01-Jan-1986	01-Oct-1987
077	0024	12164	1	Vanadium (Tsp) Stp	TERRY SMITH RANCH, OVANDO	Powell	01-Jan-1986	01-Oct-1987
077	0024	12167	1	Zinc (Tsp) Stp	TERRY SMITH RANCH, OVANDO	Powell	01-Jan-1986	01-Oct-1987
077	0024	12403	1	Sulfate (Tsp) Stp	TERRY SMITH RANCH, OVANDO	Powell	01-Jan-1982	31-Dec-1982
077	0024	17242	1	Benzo[A]Pyrene (Tsp) Stp	TERRY SMITH RANCH, OVANDO	Powell	01-Jan-1986	02-Jan-1986
077	0024	42410	1	Sulfation Rate	TERRY SMITH RANCH, OVANDO	Powell	01-Jan-1980	31-Dec-1981
077	0024	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	TERRY SMITH RANCH, OVANDO	Powell	01-Jan-1985	31-Dec-1987
077	0024	81102	2	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	TERRY SMITH RANCH, OVANDO	Powell	21-Apr-1987	31-Dec-1987
077	9000	11208	1	Deciview	Monture	Powell	29-Mar-2000	
077	9000	42401	1	Sulfur Dioxide	Monture	Powell	29-Mar-2000	
077	9000	62201	1	Relative Humidity	Monture	Powell	29-Mar-2000	
077	9000	62202	1	Relative Humidity Factor	Monture	Powell	29-Mar-2000	
077	9000	63102	1	Light Absorption Coeffiecient	Monture	Powell	29-Mar-2000	
077	9000	81103	1	Pm 10 <sub>2.5</sub> Stp	Monture	Powell	01-Jan-2005	
077	9000	84203	1	Chloride PM <sub>2.5</sub> Stp	Monture	Powell	29-Mar-2000	
077	9000	84306	1	Nitrate PM <sub>2.5</sub> Stp	Monture	Powell	01-Jan-2006	
077	9000	85101	1	PM <sub>10</sub> - Lc	Monture	Powell	29-Mar-2000	
077	9000	86502	1	Acceptable PM <sub>102.5</sub> LC	Monture	Powell	29-Mar-2000	
077	9000	88103	1	Arsenic PM <sub>2.5</sub> Lc	Monture	Powell	29-Mar-2000	
077	9000	88104	1	Aluminum PM <sub>2.5</sub> Lc	Monture	Powell	29-Mar-2000	
077	9000	88109	1	Bromine PM <sub>2.5</sub> Lc	Monture	Powell	29-Mar-2000	
077	9000	88111	1	Calcium PM <sub>2.5</sub> Lc	Monture	Powell	29-Mar-2000	
077	9000	88112	1	Chromium PM <sub>2.5</sub> Lc	Monture	Powell	29-Mar-2000	
077	9000	88114	1	Copper PM <sub>2.5</sub> Lc	Monture	Powell	29-Mar-2000	
077	9000	88115	1	Chlorine PM <sub>2.5</sub> Lc	Monture	Powell	29-Mar-2000	
077	9000	88126	1	Iron PM <sub>2.5</sub> Lc	Monture	Powell	29-Mar-2000	

077	9000	88128	1	Lead PM <sub>2.5</sub> Lc	Monture	Powell	29-Mar-2000
077	9000	88132	1	Manganese PM <sub>2.5</sub> Lc	Monture	Powell	29-Mar-2000
077	9000	88136	1	Nickel PM <sub>2.5</sub> Lc	Monture	Powell	29-Mar-2000
077	9000	88140	1	Magnesium PM <sub>2.5</sub> Lc	Monture	Powell	29-Mar-2000
077	9000	88152	1	Phosphorus PM <sub>2.5</sub> Lc	Monture	Powell	29-Mar-2000
077	9000	88154	1	Selenium PM <sub>2.5</sub> Lc	Monture	Powell	29-Mar-2000
077	9000	88161	1	Titanium PM <sub>2.5</sub> Lc	Monture	Powell	29-Mar-2000
077	9000	88164	1	Vanadium PM <sub>2.5</sub> Lc	Monture	Powell	29-Mar-2000
077	9000	88165	1	Silicon PM <sub>2.5</sub> Lc	Monture	Powell	29-Mar-2000
077	9000	88167	1	Zinc PM <sub>2.5</sub> Lc	Monture	Powell	29-Mar-2000
077	9000	88168	1	Strontium PM <sub>2.5</sub> Lc	Monture	Powell	29-Mar-2000
077	9000	88169	1	Sulfur PM <sub>2.5</sub> Lc	Monture	Powell	29-Mar-2000
077	9000	88176	1	Rubidium PM <sub>2.5</sub> Lc	Monture	Powell	29-Mar-2000
077	9000	88180	1	Potassium PM <sub>2.5</sub> Lc	Monture	Powell	29-Mar-2000
077	9000	88184	1	Sodium PM <sub>2.5</sub> Lc	Monture	Powell	29-Mar-2000
077	9000	88185	1	Zirconium PM <sub>2.5</sub> Lc	Monture	Powell	29-Mar-2000
077	9000	88203	1	Chloride PM <sub>2.5</sub> Lc	Monture	Powell	29-Mar-2000
077	9000	88301	1	Ammonium Ion PM <sub>2.5</sub> Lc	Monture	Powell	29-Mar-2000
077	9000	88306	1	Total Nitrate PM <sub>2.5</sub> Lc	Monture	Powell	29-Mar-2000
077	9000	88307	1	Ec Csn PM <sub>2.5</sub> LC	Monture	Powell	29-Mar-2000
077	9000	88320	1	Oc PM <sub>2.5</sub> Lc Tor	Monture	Powell	29-Mar-2000
077	9000	88321	1	Ec PM <sub>2.5</sub> Lc Tor	Monture	Powell	01-Jan-2005
077	9000	88328	1	Op PM <sub>2.5</sub> Lc Tor	Monture	Powell	01-Jan-2005
077	9000	88329	1	Ec1 PM <sub>2.5</sub> Lc	Monture	Powell	29-Mar-2000
077	9000	88330	1	Ec2 PM <sub>2.5</sub> Lc	Monture	Powell	29-Mar-2000
077	9000	88331	1	Ec3 PM <sub>2.5</sub> Lc	Monture	Powell	29-Mar-2000
077	9000	88332	1	Oc1 Csn Unadj PM <sub>2.5</sub> LC	Monture	Powell	29-Mar-2000
077	9000	88333	1	Oc2 Csn Unadj PM <sub>2.5</sub> LC	Monture	Powell	29-Mar-2000
077	9000	88334	1	Oc3 Csn Unadj PM <sub>2.5</sub> LC	Monture	Powell	29-Mar-2000
077	9000	88335	1	Oc4 Csn Unadj PM <sub>2.5</sub> LC	Monture	Powell	29-Mar-2000
077	9000	88336	1	Op Csn PM <sub>2.5</sub> LC	Monture	Powell	29-Mar-2000
077	9000	88337	1	Hydrogen PM <sub>2.5</sub> Lc	Monture	Powell	29-Mar-2000
077	9000	88338	1	Nitrite PM <sub>2.5</sub> Lc	Monture	Powell	29-Mar-2000

077	9000	88339	1	NH4NO3 PM <sub>2.5</sub> Lc	Monture	Powell	29-Mar-2000	
077	9000	88340	1	NH4NO3 Extinct.PM <sub>2.5</sub> Lc	Monture	Powell	29-Mar-2000	
077	9000	88341	1	Aerosol Extinct.PM <sub>2.5</sub> Lc	Monture	Powell	29-Mar-2000	
077	9000	88342	1	Coar. Mass Extinct.PM25 Lc	Monture	Powell	29-Mar-2000	
077	9000	88343	1	EC Extinct.PM <sub>2.5</sub> Lc	Monture	Powell	29-Mar-2000	
077	9000	88344	1	NH4NO3 PM <sub>2.5</sub> Lc	Monture	Powell	29-Mar-2000	
077	9000	88345	1	NH4NO3 Extinct. PM2.5 Lc	Monture	Powell	29-Mar-2000	
077	9000	88346	1	OC Extinct.PM <sub>2.5</sub> Lc	Monture	Powell	29-Mar-2000	
077	9000	88348	1	Soil PM <sub>2.5</sub> Lc	Monture	Powell	29-Mar-2000	
077	9000	88349	1	Soil Extinct.PM <sub>2.5</sub> Lc	Monture	Powell	29-Mar-2000	
077	9000	88350	1	OC Mass PM <sub>2.5</sub> Lc	Monture	Powell	29-Mar-2000	
077	9000	88395	1	Sea Salt (PM <sub>2.5</sub> )	Monture	Powell	01-Jan-2007	
077	9000	88401	1	Reconstruct.Mass PM <sub>2.5</sub> Lc	Monture	Powell	29-Mar-2000	
077	9000	88403	1	Sulfate PM <sub>2.5</sub> Lc	Monture	Powell	29-Mar-2000	
077	9000	88502	1	Accpt.PM25 AQI Spec.Mass	Monture	Powell	29-Mar-2000	
081	0001	11101	1	Suspended Particulate (Tsp)	RAVALLI COUNTY COURTHOUSE, 205 BEDFORD	Ravalli	01-Jan-1983	31-Dec-1987
081	0001	68101	1	Sample Flow Rate- Cv	RAVALLI COUNTY COURTHOUSE, 205 BEDFORD	Ravalli	01-Jan-2000	24-Jun-2005
081	0001	68102	1	Sample Volume	RAVALLI COUNTY COURTHOUSE, 205 BEDFORD	Ravalli	01-Jan-2000	24-Jun-2005
081	0001	68103	1	Ambient Min Temperature	RAVALLI COUNTY COURTHOUSE, 205 BEDFORD	Ravalli	01-Jan-2000	24-Jun-2005
081	0001	68104	1	Ambient Max Temperature	RAVALLI COUNTY COURTHOUSE, 205 BEDFORD	Ravalli	01-Jan-2000	24-Jun-2005
081	0001	68105	1	Ambient Temperature	RAVALLI COUNTY COURTHOUSE, 205 BEDFORD	Ravalli	01-Jan-2000	24-Jun-2005
081	0001	68106	1	Sample Min Baro Pressure	RAVALLI COUNTY COURTHOUSE, 205 BEDFORD	Ravalli	01-Jan-2000	24-Jun-2005
081	0001	68107	1	Sample Max Baro Pressure	RAVALLI COUNTY COURTHOUSE, 205 BEDFORD	Ravalli	01-Jan-2000	24-Jun-2005
081	0001	68108	1	Sample Baro Pressure	RAVALLI COUNTY COURTHOUSE, 205 BEDFORD	Ravalli	01-Jan-2000	24-Jun-2005
081	0001	68109	1	Elapsed Sample Time	RAVALLI COUNTY COURTHOUSE, 205 BEDFORD	Ravalli	01-Jan-2000	24-Jun-2005
081	0001	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	RAVALLI COUNTY COURTHOUSE, 205 BEDFORD	Ravalli	01-Jun-1986	15-Apr-1987
081	0001	81102	2	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	RAVALLI COUNTY COURTHOUSE, 205 BEDFORD	Ravalli	27-Apr-1987	22-Jun-2005
081	0001	85101	1	PM <sub>10</sub> - Lc	RAVALLI COUNTY COURTHOUSE, 205 BEDFORD	Ravalli	09-Oct-1999	22-Jun-2005
081	0001	88101	1	PM <sub>2.5</sub> - Local Conditions	RAVALLI COUNTY COURTHOUSE, 205 BEDFORD	Ravalli	01-Jan-2000	24-Jun-2005
081	0002	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	MT GOLD REALTY BUILDING,111 S HWY 93	Ravalli	31-Jul-1994	06-Oct-1999
081	0002	85101	1	PM <sub>10</sub> - Lc	MT GOLD REALTY BUILDING,111 S HWY 93	Ravalli	01-Jan-1998	06-Oct-1999
081	0003	81102	2	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	STEVENSVILLE RANGER STATION,88 MAIN ST	Ravalli	01-Jul-1994	12-Jun-2001
081	0003	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	STEVENSVILLE RANGER STATION,88 MAIN ST	Ravalli	01-Jul-1994	27-Nov-2000

081	0003	85101	1	PM <sub>10</sub> - Lc	STEVENSVILLE RANGER STATION,88 MAIN ST	Ravalli	01-Jan-1998	27-Nov-2000
081	0004	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	W.Fork Ranger Station, 6735 W.Fork Rd, Darby	Ravalli	02-Jul-1994	29-Jul-2000
081	0004	85101	1	PM <sub>10</sub> - Lc	W.Fork Ranger Station, 6735 W.Fork Rd, Darby	Ravalli	01-Jan-1998	29-Jul-2000
081	0006	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	2 MILES E OF HWY 93, STEVENSVILLE	Ravalli	29-Jun-2001	30-Jun-2004
081	0007	68101	1	Sample Flow Rate- Cv	MADISON AND 3RD STREET SOUTH	Ravalli	27-Jun-2005	01-Jan-2007
081	0007	68102	1	Sample Volume	MADISON AND 3RD STREET SOUTH	Ravalli	27-Jun-2005	01-Jan-2007
081	0007	68103	1	Ambient Min Temperature	MADISON AND 3RD STREET SOUTH	Ravalli	27-Jun-2005	01-Jan-2007
081	0007	68104	1	Ambient Max Temperature	MADISON AND 3RD STREET SOUTH	Ravalli	27-Jun-2005	01-Jan-2007
081	0007	68105	1	Ambient Temperature	MADISON AND 3RD STREET SOUTH	Ravalli	27-Jun-2005	
081	0007	68106	1	Sample Min Baro Pressure	MADISON AND 3RD STREET SOUTH	Ravalli	27-Jun-2005	01-Jan-2007
081	0007	68107	1	Sample Max Baro Pressure	MADISON AND 3RD STREET SOUTH	Ravalli	27-Jun-2005	01-Jan-2007
081	0007	68108	1	Sample Baro Pressure	MADISON AND 3RD STREET SOUTH	Ravalli	27-Jun-2005	
081	0007	68109	1	Elapsed Sample Time	MADISON AND 3RD STREET SOUTH	Ravalli	27-Jun-2005	01-Jan-2007
081	0007	88101	1	PM <sub>2.5</sub> - Local Conditions	MADISON AND 3RD STREET SOUTH	Ravalli	27-Jun-2005	
081	0007	88101	3	PM <sub>2.5</sub> - Local Conditions	MADISON AND 3RD STREET SOUTH	Ravalli	01-Jul-2008	
081	0007	88502	3	Accpt.PM25 AQI Spec.Mass	MADISON AND 3RD STREET SOUTH	Ravalli	01-Jul-2005	30-Jun-2008
081	9000	11208	1	Deciview	Sula Peak	Ravalli	10-Aug-1994	
081	9000	42401	1	Sulfur Dioxide	Sula Peak	Ravalli	10-Aug-1994	
081	9000	62201	1	Relative Humidity	Sula Peak	Ravalli	10-Aug-1994	
081	9000	62202	1	Relative Humidity Factor	Sula Peak	Ravalli	10-Aug-1994	
081	9000	63102	1	Light Absorption Coeffiecient	Sula Peak	Ravalli	01-Jan-2000	
081	9000	81103	1	Pm 10 <sub>2.5</sub> Stp	Sula Peak	Ravalli	01-Jan-2005	
081	9000	84203	1	Chloride PM <sub>2.5</sub> Stp	Sula Peak	Ravalli	10-Aug-1994	
081	9000	84306	1	Nitrate PM <sub>2.5</sub> Stp	Sula Peak	Ravalli	01-Jan-2006	
081	9000	85101	1	PM <sub>10</sub> - Lc	Sula Peak	Ravalli	10-Aug-1994	
081	9000	86502	1	Acceptable PM <sub>102.5</sub> LC	Sula Peak	Ravalli	01-Jan-2000	
081	9000	88103	1	Arsenic PM <sub>2.5</sub> Lc	Sula Peak	Ravalli	10-Aug-1994	
081	9000	88104	1	Aluminum PM <sub>2.5</sub> Lc	Sula Peak	Ravalli	10-Aug-1994	
081	9000	88109	1	Bromine PM <sub>2.5</sub> Lc	Sula Peak	Ravalli	10-Aug-1994	
081	9000	88111	1	Calcium PM <sub>2.5</sub> Lc	Sula Peak	Ravalli	10-Aug-1994	
081	9000	88112	1	Chromium PM <sub>2.5</sub> Lc	Sula Peak	Ravalli	10-Aug-1994	
081	9000	88114	1	Copper PM <sub>2.5</sub> Lc	Sula Peak	Ravalli	10-Aug-1994	
081	9000	88115	1	Chlorine PM <sub>2.5</sub> Lc	Sula Peak	Ravalli	10-Aug-1994	

081         9000         88128         1         Lead PM <sub>2.5</sub> Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88132         1         Manganese PM <sub>2.5</sub> Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88134         1         Molydenum PM <sub>2.5</sub> Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88136         1         Nickel PM <sub>2.5</sub> Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88136         1         Nickel PM <sub>2.5</sub> Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88152         1         Phosphorus PM <sub>2.5</sub> Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88154         1         Selenium PM <sub>2.5</sub> Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88164         1         Tainium PM <sub>2.5</sub> Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88165         1         Silicon PM <sub>2.5</sub> Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000
0000         0010 <th< td=""></th<>
OB1         9000         88134         I Molybdenum PMz_sLc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88136         1 Nickel PMz_sLc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88140         1 Magnesium PMz_sLc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88152         1 Phosphorus PMz_sLc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88152         1 Phosphorus PMz_sLc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88161         1 Titanium PMz_sLc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88164         1 Vanadium PMz_sLc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88165         1 Silicon PMz_s Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88167         1 Zinc PMz_s Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88168         1 Strontium PMz_s Lc         Sula Peak         Ravalli         10-Aug-1994 <td< td=""></td<>
081         0900         88136         1         Nickel PM25 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88140         1         Magnesium PM25 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88152         1         Phosphorus PM25 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88154         1         Selenium PM25 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88164         1         Trainium PM25 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88164         1         Vanadium PM25 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88165         1         Silicon PM25 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88167         1         Zinc PM25 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88168         1         Strotium PM25 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88168
081         9000         88140         1         Magnesium PM25Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88152         1         Phosphorus PM25Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88154         1         Selenium PM25Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88161         1         Titanium PM25Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88164         1         Vanadium PM25Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88165         1         Silicon PM25Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88165         1         Zinc PM25Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88167         1         Zinc PM25Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88167         1         Sula Peak         Ravalli         10-Aug-1994           081         9000         88167         1         Sula Peak
Ost         Ost <thost< th=""> <thost< th=""> <thost< th=""></thost<></thost<></thost<>
081         0900         08154         1         Selenium PM25 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88164         1         Selenium PM25 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88164         1         Vanadium PM25 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88165         1         Silicon PM25 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88167         1         Zinc PM25 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88168         1         Strontium PM25 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88168         1         Strontium PM25 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88169         1         Sula Peak         Ravalli         10-Aug-1994           081         9000         88176         1         Rubidium PM25 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88184         1         Sodi
Obi         Obi         Other         Final         Fin
OS1         OS00         S8161         1         Nation M225 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88163         1         Silicon PM25 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88165         1         Silicon PM25 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88168         1         Strontium PM25 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88168         1         Strontium PM25 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88169         1         Sulfur PM25 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88176         1         Rubidium PM25 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88180         1         Potassium PM25 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88184         1         Sodium PM25 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88185
Oot         Ooto         Bandalan (Mas) Le         Out of the Mas)         Fortham         To Fortham           081         9000         88165         1         Silicon PM25 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88168         1         Zinc PM25 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88168         1         Strontium PM25 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88169         1         Strontium PM25 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88169         1         Sulfur PM25 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88161         1         Rubidium PM25 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88180         1         Potassium PM25 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88184         1         Sodium PM25 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88185         1         Zirconium
Oot         Ooto         Ooto         Ontoin Mussic         Out roak         Nortain         N
OS1         OS02         OS13         I Entry Higher         Outer Higher         I Entry Higher           081         9000         88168         1         Strontium PM2.5 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88169         1         Sulfur PM2.5 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88176         1         Rubidium PM2.5 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88180         1         Potassium PM2.5 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88184         1         Sodium PM2.5 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88185         1         Zirconium PM2.5 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88203         1         Chloride PM2.5 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88301         1         Ammonium Ion PM2.5 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88306         1         <
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OB1         OB00         BB185         1         Zirconium PM2.5 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88203         1         Chloride PM2.5 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88203         1         Chloride PM2.5 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88301         1         Ammonium Ion PM2.5 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88306         1         Total Nitrate PM2.5 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88306         1         Total Nitrate PM2.5 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88307         1         Ec Csn PM2.5 LC         Sula Peak         Ravalli         01-Jan-2000           081         9000         88320         1         Oc PM2.5 Lc Tor         Sula Peak         Ravalli         01-Jan-2000           081         9000         88321         1         Ea PMacha Tar         Sula Peak         Ravalli         01-Jan-2000
081         9000         88203         1         Chloride PM2.5 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88301         1         Ammonium Ion PM2.5 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88306         1         Total Nitrate PM2.5 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88306         1         Total Nitrate PM2.5 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88307         1         Ec Csn PM2.5 LC         Sula Peak         Ravalli         01-Jan-2000           081         9000         88320         1         Oc PM2.5 LC         Sula Peak         Ravalli         01-Jan-2000           081         9000         88320         1         Oc PM2.5 LC Tor         Sula Peak         Ravalli         01-Jan-2000           081         9000         88320         1         Oc PM2.5 Lc Tor         Sula Peak         Ravalli         01-Jan-2000
081         9000         88301         1         Ammonium Ion PM2.5 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88306         1         Total Nitrate PM2.5 Lc         Sula Peak         Ravalli         10-Aug-1994           081         9000         88306         1         Total Nitrate PM2.5 LC         Sula Peak         Ravalli         10-Aug-1994           081         9000         88307         1         Ec Csn PM2.5 LC         Sula Peak         Ravalli         01-Jan-2000           081         9000         88320         1         Oc PM2.5 LC         Sula Peak         Ravalli         01-Jan-2000           081         9000         88320         1         Oc PM2.5 Lc Tor         Sula Peak         Ravalli         01-Jan-2000           081         9000         88320         1         Oc PM2.5 Lc Tor         Sula Peak         Ravalli         01-Jan-2000
OS1         OS00         OS001         I         Futuritie         Futuritie         For Aug Foor           081         9000         88306         1         Total Nitrate PM2.5 LC         Sula Peak         Ravalli         10-Aug-1994           081         9000         88307         1         Ec Csn PM2.5 LC         Sula Peak         Ravalli         01-Jan-2000           081         9000         88320         1         Oc PM2.5 LC Tor         Sula Peak         Ravalli         01-Jan-2000           081         9000         88320         1         Oc PM2.5 LC Tor         Sula Peak         Ravalli         01-Jan-2000
OB1         9000         88307         1         Ec Csn PM <sub>2.5</sub> LC         Sula Peak         Ravalli         01-Jan-2000           081         9000         88320         1         Oc PM <sub>2.5</sub> LC Tor         Sula Peak         Ravalli         01-Jan-2000           081         9000         88320         1         Oc PM <sub>2.5</sub> LC Tor         Sula Peak         Ravalli         01-Jan-2000           081         9000         88320         1         Oc PM <sub>2.5</sub> LC Tor         Sula Peak         Ravalli         01-Jan-2000
Obs         Stock         Field String         Stock         Field String         Stock         Field String         Stock         Sto
081 9000 88328 1 Op PM25 Lo Tor Sula Peak Ravalli 01-Jan-2005
081 9000 88329 1 Ec1 PM25 Loc Sula Peak Ravalli 10-Aug-1994
081 9000 88330 1 Ec2 PM25 L C Sula Peak Ravalli 10-Aug-1994
081 9000 88331 1 Ec3 PM <sub>25</sub> Lo Sula Peak Ravalli 10-Aug-1994
081 9000 88332 1 Oct Csn Unadi PM251 C Sula Peak Ravalli 10-Aug-1994
081 9000 88333 1 Oc2 Csn Unadi PM251 C Sula Peak Ravalli 10-Aug-1994
081 9000 88334 1 0c3 Csn Unadi PM25 LC Sula Peak Ravalli 10-Aug-1994
081 9000 88335 1 Oc4 Csn Unadi PM251 C Sula Peak Ravalli 10-Aug-1994
081 0000 88336 1 On Can PMas I C Sula Peak Rayalli 10 Aug 1004

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081	9000	88337	1	Hydrogen PM <sub>2.5</sub> Lc	Sula Peak	Ravalli	10-Aug-1994	
081	9000	88338	1	Nitrite PM <sub>2.5</sub> Lc	Sula Peak	Ravalli	10-Aug-1994	
081	9000	88339	1	NH4NO3 PM <sub>2.5</sub> Lc	Sula Peak	Ravalli	10-Aug-1994	
081	9000	88340	1	NH4NO3 Extinct.PM <sub>2.5</sub> Lc	Sula Peak	Ravalli	10-Aug-1994	
081	9000	88341	1	Aerosol Extinct.PM <sub>2.5</sub> Lc	Sula Peak	Ravalli	01-Jan-2000	
081	9000	88342	1	Coar. Mass Extinct.PM25 Lc	Sula Peak	Ravalli	01-Jan-2000	
081	9000	88343	1	EC Extinct.PM <sub>2.5</sub> Lc	Sula Peak	Ravalli	01-Jan-2000	
081	9000	88344	1	NH4NO3 PM <sub>2.5</sub> Lc	Sula Peak	Ravalli	01-Jan-2000	
081	9000	88345	1	NH4NO3 Extinct. PM <sub>2.5</sub> Lc	Sula Peak	Ravalli	01-Jan-2000	
081	9000	88346	1	OC Extinct.PM <sub>2.5</sub> Lc	Sula Peak	Ravalli	01-Jan-2000	
081	9000	88348	1	Soil PM <sub>2.5</sub> Lc	Sula Peak	Ravalli	10-Aug-1994	
081	9000	88349	1	Soil Extinct.PM <sub>2.5</sub> Lc	Sula Peak	Ravalli	10-Aug-1994	
081	9000	88350	1	OC Mass PM <sub>2.5</sub> Lc	Sula Peak	Ravalli	01-Jan-2000	
081	9000	88395	1	Sea Salt (PM <sub>2.5</sub> )	Sula Peak	Ravalli	01-Jan-2007	
081	9000	88401	1	Reconstruct.Mass PM <sub>2.5</sub> Lc	Sula Peak	Ravalli	01-Jan-2000	
081	9000	88403	1	Sulfate PM <sub>2.5</sub> Lc	Sula Peak	Ravalli	10-Aug-1994	
081	9000	88502	1	Accpt.PM25 AQI Spec.Mass	Sula Peak	Ravalli	10-Aug-1994	
083	0001	42601	1	Nitric Oxide	15 miles NW of Sidney	Richland	10-Oct-2008	
083	0001	42602	1	Nitrogen Dioxide	15 miles NW of Sidney	Richland	10-Oct-2008	
083	0001	42603	1	Oxides Of Nitrogen	15 miles NW of Sidney	Richland	10-Oct-2008	
083	0001	44201	1	Ozone	15 miles NW of Sidney	Richland	17-Oct-2008	
083	0001	61101	1	Wind Speed	15 miles NW of Sidney	Richland	10-Oct-2008	01-Oct-2009
083	0001	61102	1	Wind Direction	15 miles NW of Sidney	Richland	10-Oct-2008	01-Oct-2009
083	0001	61106	1	Std Dev Hz Wind Direction	15 miles NW of Sidney	Richland	10-Oct-2008	01-Oct-2009
083	0001	62101	2	Outdoor Temperature	15 miles NW of Sidney	Richland	10-Oct-2008	01-Oct-2009
083	0001	62101	1	Outdoor Temperature	15 miles NW of Sidney	Richland	10-Oct-2008	01-Oct-2009
083	0001	62106	1	Temperature Difference	15 miles NW of Sidney	Richland	10-Oct-2008	01-Apr-2009
083	0001	63305	1	Net Radiation	15 miles NW of Sidney	Richland	10-Oct-2008	01-Oct-2009
083	0001	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	15 miles NW of Sidney	Richland	10-Oct-2008	
083	0001	88101	3	PM <sub>2.5</sub> - Local Conditions	15 miles NW of Sidney	Richland	10-Oct-2008	
083	0005	11101	1	Suspended Particulate (Tsp)	SIDNEY BUXBAUM	Richland	01-Jan-1973	31-Dec-1973
083	0010	11101	1	Suspended Particulate (Tsp)	SIDNEY DOWNTOWN, 115 2ND ST SE, SIDNEY	Richland	01-Jan-1983	31-Dec-1987
083	0010	12306	1	Nitrate (Tsp) Stp	SIDNEY DOWNTOWN, 115 2ND ST SE, SIDNEY	Richland	01-Jan-1984	31-Dec-1984

083	0010	12403	1	Sulfate (Tsp) Stp	SIDNEY DOWNTOWN, 115 2ND ST SE, SIDNEY	Richland	01-Jan-1983	31-Dec-1985
083	0011	42410	1	Sulfation Rate	#1 PETERSON-MORLOCK,2.7 MI NW SIDNEY	Richland	01-Jan-1982	31-Dec-1986
083	0011	42410	2	Sulfation Rate	#1 PETERSON-MORLOCK,2.7 MI NW SIDNEY	Richland	01-Jan-1985	31-Dec-1985
083	0012	42410	2	Sulfation Rate	#2 PUBLIC WELFARE OFFICE,5TH ST &3RD AVE	Richland	01-Jan-1985	31-Dec-1985
083	0012	42410	1	Sulfation Rate	#2 PUBLIC WELFARE OFFICE,5TH ST &3RD AVE	Richland	01-Jan-1982	31-Dec-1986
083	0013	42410	1	Sulfation Rate	#3 SHELL OIL,6.1 MI E JCT HWY 16 & 23	Richland	01-Jan-1982	31-Dec-1986
083	0014	42410	1	Sulfation Rate	#4 YELLOWSTONE RIVER BRIDGE	Richland	01-Jan-1982	31-Dec-1984
083	0015	42410	1	Sulfation Rate	#5 FAIRVIEW NORTH,8.7 MI W FAIRVIEW	Richland	01-Jan-1982	31-Dec-1984
083	0016	42410	1	Sulfation Rate	#6 S SIDNEY PUMPER,.3 M W JCT HWY 16&200	Richland	01-Jan-1982	31-Dec-1984
083	0017	42410	1	Sulfation Rate	#7 S SIDNEY FLARE,.9 M W JCT HWY 16&200	Richland	01-Jan-1982	31-Dec-1984
083	0018	42410	1	Sulfation Rate	#8 N SIDNEY,2.1 M N SIDNEY ON LINCOLN ST	Richland	01-Jan-1982	31-Dec-1984
083	0019	42410	1	Sulfation Rate	#9 RICHLAND PARK ROAD,3.5 M NE SIDNEY	Richland	01-Jan-1982	31-Dec-1984
083	0020	42410	1	Sulfation Rate	COOKE RESIDENCE SOUTH OF SIDNEY MT	Richland	01-Jan-1984	31-Dec-1984
083	0028	42410	1	Sulfation Rate	LUDINGTON SIDNEY MT	Richland	01-Jan-1985	31-Dec-1986
083	0029	42410	1	Sulfation Rate	RIVER ROAD #1 SIDNEY MT	Richland	01-Jan-1985	31-Dec-1986
083	0030	42410	1	Sulfation Rate	RIVER ROAD #2 SIDNEY MT	Richland	01-Jan-1985	31-Dec-1986
083	0031	42410	1	Sulfation Rate	GOSSETT SIDNEY MT	Richland	01-Jan-1985	31-Dec-1986
085	0001	11101	1	Suspended Particulate (Tsp)	WITTE WELL	Roosevelt	01-Jan-1974	31-Dec-1976
085	0001	12306	1	Nitrate (Tsp) Stp	WITTE WELL	Roosevelt	01-Jan-1976	31-Dec-1976
085	0001	12403	1	Sulfate (Tsp) Stp	WITTE WELL	Roosevelt	01-Jan-1976	31-Dec-1976
085	0001	61101	1	Wind Speed	WITTE WELL	Roosevelt	01-Jan-1976	31-Dec-1976
085	0001	61102	1	Wind Direction	WITTE WELL	Roosevelt	01-Jan-1976	31-Dec-1976
085	0002	11101	1	Suspended Particulate (Tsp)	WOLF POINT INT'L AIRPORT (WOLF POINT)	Roosevelt	01-Jan-1982	31-Dec-1984
085	0002	12306	1	Nitrate (Tsp) Stp	WOLF POINT INT'L AIRPORT (WOLF POINT)	Roosevelt	01-Jan-1982	31-Dec-1984
085	0002	12403	1	Sulfate (Tsp) Stp	WOLF POINT INT'L AIRPORT (WOLF POINT)	Roosevelt	01-Jan-1982	31-Dec-1984
085	0002	42401	1	Sulfur Dioxide	WOLF POINT INT'L AIRPORT (WOLF POINT)	Roosevelt	01-Jan-1983	31-Dec-1984
085	0002	42601	1	Nitric Oxide	WOLF POINT INT'L AIRPORT (WOLF POINT)	Roosevelt	01-Jan-1975	31-Dec-1975
085	0002	42602	1	Nitrogen Dioxide	WOLF POINT INT'L AIRPORT (WOLF POINT)	Roosevelt	01-Jan-1975	31-Dec-1975
085	0002	44201	1	Ozone	WOLF POINT INT'L AIRPORT (WOLF POINT)	Roosevelt	01-Jan-1975	31-Dec-1975
085	0002	61101	1	Wind Speed	WOLF POINT INT'L AIRPORT (WOLF POINT)	Roosevelt	01-Jan-1983	31-Dec-1986
085	0002	61102	1	Wind Direction	WOLF POINT INT'L AIRPORT (WOLF POINT)	Roosevelt	01-Jan-1983	31-Dec-1986
085	0002	62101	1	Outdoor Temperature	WOLF POINT INT'L AIRPORT (WOLF POINT)	Roosevelt	01-Jan-1983	31-Dec-1986
085	0004	42410	1	Sulfation Rate	BOX 506 POPLAR MT 59255	Roosevelt	01-Jan-1983	31-Dec-1990
085	0005	42410	1	Sulfation Rate	BOX 506 POPLAR MT 59255	Roosevelt	01-Jan-1983	31-Dec-1984
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085	0006	42410	1	Sulfation Rate	BOX 506 POPLAR MT 59255	Roosevelt	01-Jan-1983	31-Dec-1985
085	0007	42410	1	Sulfation Rate	KENCO OIL REFINERY 7 MI EAST OF WOLF PT	Roosevelt	01-Jan-1984	31-Dec-1985
085	8000	11203	1	Light Scatter	POPULAR RIVER VALLEY ;FT.PECKRESERVATION	Roosevelt	01-Jan-1987	31-Dec-1989
085	0008	42401	1	Sulfur Dioxide	POPULAR RIVER VALLEY ;FT.PECKRESERVATION	Roosevelt	01-Jan-1985	31-Dec-1989
085	0008	42410	1	Sulfation Rate	POPULAR RIVER VALLEY ;FT.PECKRESERVATION	Roosevelt	01-Sep-1989	31-Dec-1990
085	0008	61101	1	Wind Speed	POPULAR RIVER VALLEY ;FT.PECKRESERVATION	Roosevelt	01-Jan-1985	31-Dec-1989
085	0008	61102	1	Wind Direction	POPULAR RIVER VALLEY ;FT.PECKRESERVATION	Roosevelt	01-Jan-1985	31-Dec-1989
085	0008	62101	1	Outdoor Temperature	POPULAR RIVER VALLEY ;FT.PECKRESERVATION	Roosevelt	01-Jan-1985	31-Dec-1989
085	0009	11101	1	Suspended Particulate (Tsp)	114 3RD AVE SOUTH WOLF POINT MONTANA	Roosevelt	01-Jan-1984	31-Dec-1987
085	0009	12306	1	Nitrate (Tsp) Stp	114 3RD AVE SOUTH WOLF POINT MONTANA	Roosevelt	01-Jan-1984	31-Dec-1985
085	0009	12403	1	Sulfate (Tsp) Stp	114 3RD AVE SOUTH WOLF POINT MONTANA	Roosevelt	01-Jan-1984	31-Dec-1985
085	0010	42410	1	Sulfation Rate	LONG CREEK OIL FIELD	Roosevelt	01-Jan-1984	31-Dec-1990
085	0011	42410	1	Sulfation Rate	FORT PECK TRIBAL SITE	Roosevelt	01-Jan-1987	31-Dec-1990
085	0012	11101	2	Suspended Particulate (Tsp)	TRIBAL BLDG, POPLAR	Roosevelt	31-Aug-1987	31-Dec-1990
085	0012	11101	1	Suspended Particulate (Tsp)	TRIBAL BLDG, POPLAR	Roosevelt	31-Aug-1987	30-Sep-1993
085	0013	11101	1	Suspended Particulate (Tsp)	FORT PECK TRIBAL SITE	Roosevelt	01-Jan-1987	23-Sep-1992
085	0013	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	FORT PECK TRIBAL SITE	Roosevelt	01-Oct-1992	08-Jun-1995
085	0014	61101	1	Wind Speed	LAW AND ORDER SITE	Roosevelt	23-Jan-1992	10-Oct-1996
085	0014	61102	1	Wind Direction	LAW AND ORDER SITE	Roosevelt	23-Jan-1992	10-Oct-1996
085	0014	61106	1	Std Dev Hz Wind Direction	LAW AND ORDER SITE	Roosevelt	23-Jan-1992	10-Oct-1996
085	0014	62101	1	Outdoor Temperature	LAW AND ORDER SITE	Roosevelt	23-Jan-1992	10-Oct-1996
085	0015	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	FOURTH AVENUE, WOLF POINT, MONTANA	Roosevelt	14-Jun-1995	31-Dec-2002
085	0015	85101	1	PM <sub>10</sub> - Lc	FOURTH AVENUE, WOLF POINT, MONTANA	Roosevelt	01-Jan-1998	31-Dec-2002
085	9000	11208	1	Deciview	Fort Peck	Roosevelt	01-Jun-2002	
085	9000	42401	1	Sulfur Dioxide	Fort Peck	Roosevelt	01-Jun-2002	
085	9000	62201	1	Relative Humidity	Fort Peck	Roosevelt	01-Jun-2002	
085	9000	62202	1	Relative Humidity Factor	Fort Peck	Roosevelt	01-Jun-2002	
085	9000	63102	1	Light Absorption Coeffiecient	Fort Peck	Roosevelt	01-Jan-2002	
085	9000	81103	1	Pm 10 <sub>2.5</sub> Stp	Fort Peck	Roosevelt	01-Jan-2005	
085	9000	84203	1	Chloride PM <sub>2.5</sub> Stp	Fort Peck	Roosevelt	01-Jun-2002	
085	9000	84306	1	Nitrate PM <sub>2.5</sub> Stp	Fort Peck	Roosevelt	01-Jan-2006	
085	9000	85101	1	PM <sub>10</sub> - Lc	Fort Peck	Roosevelt	01-Jun-2002	

085	9000	86502	1	Acceptable PM <sub>102.5</sub> LC	Fort Peck	Roosevelt	01-Jan-2002
085	9000	88103	1	Arsenic PM <sub>2.5</sub> Lc	Fort Peck	Roosevelt	01-Jun-2002
085	9000	88104	1	Aluminum PM <sub>2.5</sub> Lc	Fort Peck	Roosevelt	01-Jun-2002
085	9000	88109	1	Bromine PM <sub>2.5</sub> Lc	Fort Peck	Roosevelt	01-Jun-2002
085	9000	88111	1	Calcium PM <sub>2.5</sub> Lc	Fort Peck	Roosevelt	01-Jun-2002
085	9000	88112	1	Chromium PM <sub>2.5</sub> Lc	Fort Peck	Roosevelt	01-Jun-2002
085	9000	88114	1	Copper PM <sub>2.5</sub> Lc	Fort Peck	Roosevelt	01-Jun-2002
085	9000	88115	1	Chlorine PM <sub>2.5</sub> Lc	Fort Peck	Roosevelt	01-Jun-2002
085	9000	88126	1	Iron PM <sub>2.5</sub> Lc	Fort Peck	Roosevelt	01-Jun-2002
085	9000	88128	1	Lead PM <sub>2.5</sub> Lc	Fort Peck	Roosevelt	01-Jun-2002
085	9000	88132	1	Manganese PM <sub>2.5</sub> Lc	Fort Peck	Roosevelt	01-Jun-2002
085	9000	88136	1	Nickel PM <sub>2.5</sub> Lc	Fort Peck	Roosevelt	01-Jun-2002
085	9000	88140	1	Magnesium PM <sub>2.5</sub> Lc	Fort Peck	Roosevelt	01-Jun-2002
085	9000	88152	1	Phosphorus PM <sub>2.5</sub> Lc	Fort Peck	Roosevelt	01-Jun-2002
085	9000	88154	1	Selenium PM <sub>2.5</sub> Lc	Fort Peck	Roosevelt	01-Jun-2002
085	9000	88161	1	Titanium PM <sub>2.5</sub> Lc	Fort Peck	Roosevelt	01-Jun-2002
085	9000	88164	1	Vanadium PM <sub>2.5</sub> Lc	Fort Peck	Roosevelt	01-Jun-2002
085	9000	88165	1	Silicon PM <sub>2.5</sub> Lc	Fort Peck	Roosevelt	01-Jun-2002
085	9000	88167	1	Zinc PM <sub>2.5</sub> Lc	Fort Peck	Roosevelt	01-Jun-2002
085	9000	88168	1	Strontium PM <sub>2.5</sub> Lc	Fort Peck	Roosevelt	01-Jun-2002
085	9000	88169	1	Sulfur PM <sub>2.5</sub> Lc	Fort Peck	Roosevelt	01-Jun-2002
085	9000	88176	1	Rubidium PM <sub>2.5</sub> Lc	Fort Peck	Roosevelt	01-Jun-2002
085	9000	88180	1	Potassium PM <sub>2.5</sub> Lc	Fort Peck	Roosevelt	01-Jun-2002
085	9000	88184	1	Sodium PM <sub>2.5</sub> Lc	Fort Peck	Roosevelt	01-Jun-2002
085	9000	88185	1	Zirconium PM <sub>2.5</sub> Lc	Fort Peck	Roosevelt	01-Jun-2002
085	9000	88203	1	Chloride PM2.5 Lc	Fort Peck	Roosevelt	01-Jun-2002
085	9000	88301	1	Ammonium Ion PM <sub>2.5</sub> Lc	Fort Peck	Roosevelt	01-Jun-2002
085	9000	88306	1	Total Nitrate PM <sub>2.5</sub> Lc	Fort Peck	Roosevelt	01-Jun-2002
085	9000	88307	1	Ec Csn PM <sub>2.5</sub> LC	Fort Peck	Roosevelt	01-Jan-2002
085	9000	88320	1	Oc PM <sub>2.5</sub> Lc Tor	Fort Peck	Roosevelt	01-Jan-2002
085	9000	88321	1	Ec PM <sub>2.5</sub> Lc Tor	Fort Peck	Roosevelt	01-Jan-2005
085	9000	88328	1	Op PM <sub>2.5</sub> Lc Tor	Fort Peck	Roosevelt	01-Jan-2005
085	9000	88329	1	Ec1 PM <sub>2.5</sub> Lc	Fort Peck	Roosevelt	01-Jun-2002

085	9000	88330	1	Ec2 PM <sub>2.5</sub> Lc	Fort Peck	Roosevelt	01-Jun-2002	
085	9000	88331	1	Ec3 PM <sub>2.5</sub> Lc	Fort Peck	Roosevelt	01-Jun-2002	
085	9000	88332	1	Oc1 Csn Unadj PM <sub>2.5</sub> LC	Fort Peck	Roosevelt	01-Jun-2002	
085	9000	88333	1	Oc2 Csn Unadj PM <sub>2.5</sub> LC	Fort Peck	Roosevelt	01-Jun-2002	
085	9000	88334	1	Oc3 Csn Unadj PM <sub>2.5</sub> LC	Fort Peck	Roosevelt	01-Jun-2002	
085	9000	88335	1	Oc4 Csn Unadj PM <sub>2.5</sub> LC	Fort Peck	Roosevelt	01-Jun-2002	
085	9000	88336	1	Op Csn PM <sub>2.5</sub> LC	Fort Peck	Roosevelt	01-Jun-2002	
085	9000	88337	1	Hydrogen PM <sub>2.5</sub> Lc	Fort Peck	Roosevelt	01-Jun-2002	
085	9000	88338	1	Nitrite PM <sub>2.5</sub> Lc	Fort Peck	Roosevelt	01-Jun-2002	
085	9000	88339	1	NH4NO3 PM <sub>2.5</sub> Lc	Fort Peck	Roosevelt	01-Jan-2002	
085	9000	88340	1	NH4NO3 Extinct.PM <sub>2.5</sub> Lc	Fort Peck	Roosevelt	01-Jan-2002	
085	9000	88341	1	Aerosol Extinct.PM <sub>2.5</sub> Lc	Fort Peck	Roosevelt	01-Jan-2002	
085	9000	88342	1	Coar. Mass Extinct.PM25 Lc	Fort Peck	Roosevelt	01-Jan-2002	
085	9000	88343	1	EC Extinct.PM <sub>2.5</sub> Lc	Fort Peck	Roosevelt	01-Jan-2002	
085	9000	88344	1	NH4NO3 PM <sub>2.5</sub> Lc	Fort Peck	Roosevelt	01-Jan-2002	
085	9000	88345	1	NH4NO3 Extinct. PM <sub>2.5</sub> Lc	Fort Peck	Roosevelt	01-Jan-2002	
085	9000	88346	1	OC Extinct.PM <sub>2.5</sub> Lc	Fort Peck	Roosevelt	01-Jan-2002	
085	9000	88348	1	Soil PM <sub>2.5</sub> Lc	Fort Peck	Roosevelt	01-Jan-2002	
085	9000	88349	1	Soil Extinct.PM <sub>2.5</sub> Lc	Fort Peck	Roosevelt	01-Jan-2002	
085	9000	88350	1	OC Mass PM <sub>2.5</sub> Lc	Fort Peck	Roosevelt	01-Jan-2002	
085	9000	88395	1	Sea Salt (PM <sub>2.5</sub> )	Fort Peck	Roosevelt	01-Jan-2007	
085	9000	88401	1	Reconstruct.Mass PM <sub>2.5</sub> Lc	Fort Peck	Roosevelt	01-Jan-2002	
085	9000	88403	1	Sulfate PM <sub>2.5</sub> Lc	Fort Peck	Roosevelt	01-Jun-2002	
085	9000	88502	1	Accpt.PM25 AQI Spec.Mass	Fort Peck	Roosevelt	01-Jun-2002	
087	0003	11101	1	Suspended Particulate (Tsp)	FISHER BUTTE NEAR LAME DEER	Rosebud	01-Jan-1974	31-Dec-1980
087	0003	42401	2	Sulfur Dioxide	FISHER BUTTE NEAR LAME DEER	Rosebud	01-Jan-1975	31-Dec-1975
087	0003	42401	1	Sulfur Dioxide	FISHER BUTTE NEAR LAME DEER	Rosebud	01-Jan-1976	31-Dec-1977
087	0003	42602	1	Nitrogen Dioxide	FISHER BUTTE NEAR LAME DEER	Rosebud	01-Jan-1976	31-Dec-1978
087	0003	42602	2	Nitrogen Dioxide	FISHER BUTTE NEAR LAME DEER	Rosebud	01-Jan-1975	31-Dec-1975
087	0003	61101	1	Wind Speed	FISHER BUTTE NEAR LAME DEER	Rosebud	01-Jan-1976	31-Dec-1976
087	0003	61102	1	Wind Direction	FISHER BUTTE NEAR LAME DEER	Rosebud	01-Jan-1976	31-Dec-1976
087	0009	11101	1	Suspended Particulate (Tsp)	KLUVER RANCH RURAL RT 1 (FORSYTH)	Rosebud	01-Jan-1972	31-Dec-1973
087	0009	11103	1	Benzene Sol.Organics(TSP)	KLUVER RANCH RURAL RT 1 (FORSYTH)	Rosebud	01-Jan-1972	31-Dec-1973

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087	0009	12103	1	Arsenic (Tsp) Stp	KLUVER RANCH RURAL RT 1 (FORSYTH)	Rosebud	01-Jan-1972	31-Dec-1973
087	0009	12110	1	Cadmium (Tsp) Stp	KLUVER RANCH RURAL RT 1 (FORSYTH)	Rosebud	01-Jan-1972	31-Dec-1973
087	0009	12128	1	Lead (Tsp) Stp	KLUVER RANCH RURAL RT 1 (FORSYTH)	Rosebud	01-Jan-1972	31-Dec-1973
087	0009	12167	1	Zinc (Tsp) Stp	KLUVER RANCH RURAL RT 1 (FORSYTH)	Rosebud	01-Jan-1972	31-Dec-1973
087	0021	11101	1	Suspended Particulate (Tsp)	IRA GRESONS,137 RIVER ST, FORSYTH	Rosebud	01-Jan-1972	31-Dec-1972
087	0021	11103	1	Benzene Sol.Organics(TSP)	IRA GRESONS,137 RIVER ST, FORSYTH	Rosebud	01-Jan-1972	31-Dec-1972
087	0021	12110	1	Cadmium (Tsp) Stp	IRA GRESONS,137 RIVER ST, FORSYTH	Rosebud	01-Jan-1972	31-Dec-1972
087	0021	12128	1	Lead (Tsp) Stp	IRA GRESONS,137 RIVER ST, FORSYTH	Rosebud	01-Jan-1972	31-Dec-1972
087	0021	12167	1	Zinc (Tsp) Stp	IRA GRESONS,137 RIVER ST, FORSYTH	Rosebud	01-Jan-1972	31-Dec-1972
087	0024	11101	1	Suspended Particulate (Tsp)	BAILEY RANCH	Rosebud	01-Jan-1972	31-Dec-1973
087	0024	12110	1	Cadmium (Tsp) Stp	BAILEY RANCH	Rosebud	01-Jan-1972	31-Dec-1973
087	0024	12128	1	Lead (Tsp) Stp	BAILEY RANCH	Rosebud	01-Jan-1972	31-Dec-1973
087	0024	12167	1	Zinc (Tsp) Stp	BAILEY RANCH	Rosebud	01-Jan-1972	31-Dec-1973
087	0025	11101	1	Suspended Particulate (Tsp)	FERRIS RANCH	Rosebud	01-Jan-1973	31-Dec-1973
087	0026	11101	2	Suspended Particulate (Tsp)	ASHLAND RANGER DISTRICT (ASHLAND)	Rosebud	01-Jan-1970	31-Dec-1978
087	0026	11101	1	Suspended Particulate (Tsp)	ASHLAND RANGER DISTRICT (ASHLAND)	Rosebud	01-Jan-1973	31-Dec-1973
087	0026	12103	1	Arsenic (Tsp) Stp	ASHLAND RANGER DISTRICT (ASHLAND)	Rosebud	01-Jan-1977	31-Dec-1978
087	0026	12105	2	Beryllium (Tsp) Stp	ASHLAND RANGER DISTRICT (ASHLAND)	Rosebud	01-Jan-1975	31-Dec-1976
087	0026	12105	1	Beryllium (Tsp) Stp	ASHLAND RANGER DISTRICT (ASHLAND)	Rosebud	01-Jan-1977	31-Dec-1978
087	0026	12107	1	Barium (Tsp) Stp	ASHLAND RANGER DISTRICT (ASHLAND)	Rosebud	01-Jan-1977	31-Dec-1978
087	0026	12110	2	Cadmium (Tsp) Stp	ASHLAND RANGER DISTRICT (ASHLAND)	Rosebud	01-Jan-1975	31-Dec-1976
087	0026	12110	1	Cadmium (Tsp) Stp	ASHLAND RANGER DISTRICT (ASHLAND)	Rosebud	01-Jan-1977	31-Dec-1978
087	0026	12112	1	Chromium (Tsp) Stp	ASHLAND RANGER DISTRICT (ASHLAND)	Rosebud	01-Jan-1975	31-Dec-1976
087	0026	12112	2	Chromium (Tsp) Stp	ASHLAND RANGER DISTRICT (ASHLAND)	Rosebud	01-Jan-1977	31-Dec-1978
087	0026	12113	1	Cobalt (Tsp) Stp	ASHLAND RANGER DISTRICT (ASHLAND)	Rosebud	01-Jan-1975	31-Dec-1976
087	0026	12113	2	Cobalt (Tsp) Stp	ASHLAND RANGER DISTRICT (ASHLAND)	Rosebud	01-Jan-1977	31-Dec-1978
087	0026	12114	1	Copper (Tsp) Stp	ASHLAND RANGER DISTRICT (ASHLAND)	Rosebud	01-Jan-1977	31-Dec-1978
087	0026	12114	2	Copper (Tsp) Stp	ASHLAND RANGER DISTRICT (ASHLAND)	Rosebud	01-Jan-1975	31-Dec-1976
087	0026	12126	2	Iron (Tsp) Stp	ASHLAND RANGER DISTRICT (ASHLAND)	Rosebud	01-Jan-1975	31-Dec-1976
087	0026	12126	1	Iron (Tsp) Stp	ASHLAND RANGER DISTRICT (ASHLAND)	Rosebud	01-Jan-1977	31-Dec-1978
087	0026	12128	2	Lead (Tsp) Stp	ASHLAND RANGER DISTRICT (ASHLAND)	Rosebud	01-Jan-1975	31-Dec-1975
087	0026	12128	1	Lead (Tsp) Stp	ASHLAND RANGER DISTRICT (ASHLAND)	Rosebud	01-Jan-1977	31-Dec-1978
087	0026	12128	3	Lead (Tsp) Stp	ASHLAND RANGER DISTRICT (ASHLAND)	Rosebud	01-Jan-1975	31-Dec-1975

087	0026	12132	2	Manganese (Tsp) Stp	ASHLAND RANGER DISTRICT (ASHLAND)	Rosebud	01-Jan-1975	31-Dec-1976
087	0026	12132	1	Manganese (Tsp) Stp	ASHLAND RANGER DISTRICT (ASHLAND)	Rosebud	01-Jan-1977	31-Dec-1978
087	0026	12134	1	Molybdenum (Tsp) Stp	ASHLAND RANGER DISTRICT (ASHLAND)	Rosebud	01-Jan-1977	31-Dec-1978
087	0026	12136	1	Nickel (Tsp) Stp	ASHLAND RANGER DISTRICT (ASHLAND)	Rosebud	01-Jan-1977	31-Dec-1978
087	0026	12136	2	Nickel (Tsp) Stp	ASHLAND RANGER DISTRICT (ASHLAND)	Rosebud	01-Jan-1975	31-Dec-1976
087	0026	12161	1	Titanium (Tsp) Stp	ASHLAND RANGER DISTRICT (ASHLAND)	Rosebud	01-Jan-1975	31-Dec-1976
087	0026	12164	2	Vanadium (Tsp) Stp	ASHLAND RANGER DISTRICT (ASHLAND)	Rosebud	01-Jan-1975	31-Dec-1976
087	0026	12164	1	Vanadium (Tsp) Stp	ASHLAND RANGER DISTRICT (ASHLAND)	Rosebud	01-Jan-1977	31-Dec-1978
087	0026	12167	1	Zinc (Tsp) Stp	ASHLAND RANGER DISTRICT (ASHLAND)	Rosebud	01-Jan-1977	31-Dec-1978
087	0026	12301	1	Ammonium (Tsp) Stp	ASHLAND RANGER DISTRICT (ASHLAND)	Rosebud	01-Jan-1974	31-Dec-1977
087	0026	12306	1	Nitrate (Tsp) Stp	ASHLAND RANGER DISTRICT (ASHLAND)	Rosebud	01-Jan-1974	31-Dec-1978
087	0026	12403	1	Sulfate (Tsp) Stp	ASHLAND RANGER DISTRICT (ASHLAND)	Rosebud	01-Jan-1974	31-Dec-1978
087	0027	11101	1	Suspended Particulate (Tsp)	BN SITE, COLSTRIP MT	Rosebud	01-Jan-1973	31-Dec-1980
087	0027	11203	1	Light Scatter	BN SITE, COLSTRIP MT	Rosebud	01-Jan-1976	31-Dec-1976
087	0027	12101	1	Aluminum (Tsp) Stp	BN SITE, COLSTRIP MT	Rosebud	11-Oct-1978	31-Dec-1978
087	0027	12103	1	Arsenic (Tsp) Stp	BN SITE, COLSTRIP MT	Rosebud	01-Jan-1973	31-Dec-1978
087	0027	12110	1	Cadmium (Tsp) Stp	BN SITE, COLSTRIP MT	Rosebud	11-Oct-1978	31-Dec-1978
087	0027	12112	1	Chromium (Tsp) Stp	BN SITE, COLSTRIP MT	Rosebud	01-Jan-1978	31-Dec-1978
087	0027	12114	1	Copper (Tsp) Stp	BN SITE, COLSTRIP MT	Rosebud	11-Oct-1978	31-Dec-1978
087	0027	12126	1	Iron (Tsp) Stp	BN SITE, COLSTRIP MT	Rosebud	11-Oct-1978	31-Dec-1978
087	0027	12128	1	Lead (Tsp) Stp	BN SITE, COLSTRIP MT	Rosebud	01-Jan-1978	31-Dec-1978
087	0027	12132	1	Manganese (Tsp) Stp	BN SITE, COLSTRIP MT	Rosebud	11-Oct-1978	31-Dec-1978
087	0027	12136	1	Nickel (Tsp) Stp	BN SITE, COLSTRIP MT	Rosebud	11-Oct-1978	31-Dec-1978
087	0027	12167	1	Zinc (Tsp) Stp	BN SITE, COLSTRIP MT	Rosebud	11-Oct-1978	31-Dec-1978
087	0027	12306	2	Nitrate (Tsp) Stp	BN SITE, COLSTRIP MT	Rosebud	01-Jan-1976	31-Dec-1978
087	0027	12306	1	Nitrate (Tsp) Stp	BN SITE, COLSTRIP MT	Rosebud	01-Jan-1977	31-Dec-1977
087	0027	12403	1	Sulfate (Tsp) Stp	BN SITE, COLSTRIP MT	Rosebud	01-Jan-1976	31-Dec-1978
087	0027	42401	1	Sulfur Dioxide	BN SITE, COLSTRIP MT	Rosebud	01-Jan-1975	31-Dec-1977
087	0027	42401	2	Sulfur Dioxide	BN SITE, COLSTRIP MT	Rosebud	01-Jan-1975	31-Dec-1976
087	0027	42401	3	Sulfur Dioxide	BN SITE, COLSTRIP MT	Rosebud	01-Jan-1975	31-Dec-1975
087	0027	42401	4	Sulfur Dioxide	BN SITE, COLSTRIP MT	Rosebud	01-Jan-1973	31-Dec-1975
087	0027	42601	1	Nitric Oxide	BN SITE, COLSTRIP MT	Rosebud	01-Jan-1976	31-Dec-1977
087	0027	42602	4	Nitrogen Dioxide	BN SITE, COLSTRIP MT	Rosebud	01-Jan-1974	31-Dec-1975

087	0027	42602	2	Nitrogen Dioxide	BN SITE, COLSTRIP MT	Rosebud	01-Jan-1975	31-Dec-1976
087	0027	42602	1	Nitrogen Dioxide	BN SITE, COLSTRIP MT	Rosebud	01-Jan-1975	31-Dec-1977
087	0027	42602	3	Nitrogen Dioxide	BN SITE, COLSTRIP MT	Rosebud	01-Jan-1975	31-Dec-1975
087	0027	42603	1	Oxides Of Nitrogen	BN SITE, COLSTRIP MT	Rosebud	01-Jan-1976	31-Dec-1977
087	0027	43101	1	Total Hydrocarbons	BN SITE, COLSTRIP MT	Rosebud	01-Jan-1975	31-Dec-1977
087	0027	43102	1	Total Nmoc	BN SITE, COLSTRIP MT	Rosebud	01-Jan-1975	31-Dec-1977
087	0027	43201	1	Methane	BN SITE, COLSTRIP MT	Rosebud	01-Jan-1975	31-Dec-1977
087	0027	44201	2	Ozone	BN SITE, COLSTRIP MT	Rosebud	01-Jan-1975	31-Dec-1975
087	0027	44201	1	Ozone	BN SITE, COLSTRIP MT	Rosebud	01-Jan-1975	31-Dec-1977
087	0027	61101	1	Wind Speed	BN SITE, COLSTRIP MT	Rosebud	01-Jan-1976	31-Dec-1978
087	0027	61102	1	Wind Direction	BN SITE, COLSTRIP MT	Rosebud	01-Jan-1976	31-Dec-1978
087	0028	11101	1	Suspended Particulate (Tsp)	MCRAE SITE	Rosebud	01-Jan-1973	31-Dec-1979
087	0028	11203	1	Light Scatter	MCRAE SITE	Rosebud	01-Jan-1976	31-Dec-1976
087	0028	12101	1	Aluminum (Tsp) Stp	MCRAE SITE	Rosebud	01-Jan-1978	31-Dec-1978
087	0028	12103	1	Arsenic (Tsp) Stp	MCRAE SITE	Rosebud	01-Jan-1973	31-Dec-1978
087	0028	12114	1	Copper (Tsp) Stp	MCRAE SITE	Rosebud	01-Jan-1978	31-Dec-1978
087	0028	12126	1	Iron (Tsp) Stp	MCRAE SITE	Rosebud	01-Jan-1978	31-Dec-1978
087	0028	12306	1	Nitrate (Tsp) Stp	MCRAE SITE	Rosebud	01-Jan-1978	31-Dec-1978
087	0028	12403	1	Sulfate (Tsp) Stp	MCRAE SITE	Rosebud	01-Jan-1978	31-Dec-1978
087	0028	42101	2	Carbon Monoxide	MCRAE SITE	Rosebud	01-Jan-1973	31-Dec-1974
087	0028	42101	1	Carbon Monoxide	MCRAE SITE	Rosebud	01-Jan-1975	31-Dec-1975
087	0028	42401	3	Sulfur Dioxide	MCRAE SITE	Rosebud	01-Jan-1973	31-Dec-1975
087	0028	42401	4	Sulfur Dioxide	MCRAE SITE	Rosebud	01-Jan-1973	31-Dec-1975
087	0028	42401	1	Sulfur Dioxide	MCRAE SITE	Rosebud	01-Jan-1975	31-Dec-1975
087	0028	42401	2	Sulfur Dioxide	MCRAE SITE	Rosebud	01-Jan-1975	31-Dec-1977
087	0028	42601	1	Nitric Oxide	MCRAE SITE	Rosebud	01-Jan-1973	31-Dec-1975
087	0028	42602	1	Nitrogen Dioxide	MCRAE SITE	Rosebud	01-Jan-1975	31-Dec-1977
087	0028	42602	2	Nitrogen Dioxide	MCRAE SITE	Rosebud	01-Jan-1973	31-Dec-1975
087	0028	42602	3	Nitrogen Dioxide	MCRAE SITE	Rosebud	01-Jan-1974	31-Dec-1975
087	0028	42603	1	Oxides Of Nitrogen	MCRAE SITE	Rosebud	01-Jan-1973	31-Dec-1975
087	0028	44201	2	Ozone	MCRAE SITE	Rosebud	01-Jan-1973	31-Dec-1975
087	0028	44201	1	Ozone	MCRAE SITE	Rosebud	01-Jan-1975	31-Dec-1975
087	0028	61101	1	Wind Speed	MCRAE SITE	Rosebud	01-Jan-1976	31-Dec-1976

087	0028	61102	1	Wind Direction	MCRAE SITE	Rosebud	01-Jan-1976	31-Dec-1976
087	0101	44201	1	Ozone	FT HOUES RANGER STA. ASHLAND, MT 59003	Rosebud	01-Jan-1976	31-Dec-1983
087	0101	62101	1	Outdoor Temperature	FT HOUES RANGER STA. ASHLAND, MT 59003	Rosebud	01-Jan-1977	31-Dec-1978
087	0101	62201	1	Relative Humidity	FT HOUES RANGER STA. ASHLAND, MT 59003	Rosebud	01-Jan-1977	31-Dec-1978
087	0101	63301	1	Solar Radiation	FT HOUES RANGER STA. ASHLAND, MT 59003	Rosebud	01-Jan-1977	31-Dec-1978
087	0304	11101	2	Suspended Particulate (Tsp)	.5 MILE SOUTH OF LAME DEER	Rosebud	01-Jan-1983	31-Dec-1984
087	0304	11101	1	Suspended Particulate (Tsp)	.5 MILE SOUTH OF LAME DEER	Rosebud	01-Jan-1982	31-Dec-1985
087	0304	81101	1	Size Fractionated Particulate	.5 MILE SOUTH OF LAME DEER	Rosebud	01-Jan-1982	31-Dec-1983
087	0305	11101	1	Suspended Particulate (Tsp)	LAME DEER WEST	Rosebud	01-Jan-1982	31-Dec-1989
087	0305	11101	2	Suspended Particulate (Tsp)	LAME DEER WEST	Rosebud	01-Jan-1984	31-Dec-1988
087	0306	11101	1	Suspended Particulate (Tsp)	BIRNEY COMMUNITY	Rosebud	01-Jan-1983	31-Dec-1986
087	0306	12306	1	Nitrate (Tsp) Stp	BIRNEY COMMUNITY	Rosebud	01-Jan-1983	31-Dec-1986
087	0306	12403	1	Sulfate (Tsp) Stp	BIRNEY COMMUNITY	Rosebud	01-Jan-1983	31-Dec-1986
087	0307	11101	1	Suspended Particulate (Tsp)	INTERSECTION OF HWY 212 & 39, LAME DEER	Rosebud	01-Jan-1985	31-Dec-1989
087	0307	61101	1	Wind Speed	INTERSECTION OF HWY 212 & 39, LAME DEER	Rosebud	25-Feb-1992	
087	0307	61102	1	Wind Direction	INTERSECTION OF HWY 212 & 39, LAME DEER	Rosebud	25-Feb-1992	
087	0307	61103	1	Resultant Speed	INTERSECTION OF HWY 212 & 39, LAME DEER	Rosebud	25-Feb-1992	
087	0307	61106	1	Std Dev Hz Wind Direction	INTERSECTION OF HWY 212 & 39, LAME DEER	Rosebud	25-Feb-1992	
087	0307	62101	1	Outdoor Temperature	INTERSECTION OF HWY 212 & 39, LAME DEER	Rosebud	28-Apr-1992	
087	0307	64101	1	Barometric Pressure	INTERSECTION OF HWY 212 & 39, LAME DEER	Rosebud	28-Apr-1992	
087	0307	65102	1	Rain/Melt Precipitation	INTERSECTION OF HWY 212 & 39, LAME DEER	Rosebud	12-Aug-1993	
087	0307	68101	2	Sample Flow Rate- Cv	INTERSECTION OF HWY 212 & 39, LAME DEER	Rosebud	01-Jan-2000	31-Dec-2005
087	0307	68101	1	Sample Flow Rate- Cv	INTERSECTION OF HWY 212 & 39, LAME DEER	Rosebud	01-Jan-2000	31-Dec-2005
087	0307	68102	1	Sample Volume	INTERSECTION OF HWY 212 & 39, LAME DEER	Rosebud	01-Jan-2000	31-Dec-2005
087	0307	68102	2	Sample Volume	INTERSECTION OF HWY 212 & 39, LAME DEER	Rosebud	01-Jan-2000	31-Dec-2005
087	0307	68103	2	Ambient Min Temperature	INTERSECTION OF HWY 212 & 39, LAME DEER	Rosebud	01-Jan-2000	31-Dec-2005
087	0307	68103	1	Ambient Min Temperature	INTERSECTION OF HWY 212 & 39, LAME DEER	Rosebud	01-Jan-2000	31-Dec-2005
087	0307	68104	1	Ambient Max Temperature	INTERSECTION OF HWY 212 & 39, LAME DEER	Rosebud	01-Jan-2000	31-Dec-2005
087	0307	68104	2	Ambient Max Temperature	INTERSECTION OF HWY 212 & 39, LAME DEER	Rosebud	01-Jan-2000	31-Dec-2005
087	0307	68105	1	Ambient Temperature	INTERSECTION OF HWY 212 & 39, LAME DEER	Rosebud	01-Jan-2000	31-Dec-2005
087	0307	68105	2	Ambient Temperature	INTERSECTION OF HWY 212 & 39, LAME DEER	Rosebud	01-Jan-2000	31-Dec-2005
087	0307	68106	1	Sample Min Baro Pressure	INTERSECTION OF HWY 212 & 39, LAME DEER	Rosebud	01-Jan-2000	31-Dec-2005
087	0307	68106	2	Sample Min Baro Pressure	INTERSECTION OF HWY 212 & 39, LAME DEER	Rosebud	01-Jan-2000	31-Dec-2005

087	0307	68107	1 Sample Max Baro Pressure	INTERSECTION OF HWY 212 & 39, LAME DEER	Rosebud	01-Jan-2000	31-Dec-2005
087	0307	68107	2 Sample Max Baro Pressure	INTERSECTION OF HWY 212 & 39, LAME DEER	Rosebud	01-Jan-2000	31-Dec-2005
087	0307	68108	1 Sample Baro Pressure	INTERSECTION OF HWY 212 & 39, LAME DEER	Rosebud	01-Jan-2000	31-Dec-2005
087	0307	68108	2 Sample Baro Pressure	INTERSECTION OF HWY 212 & 39, LAME DEER	Rosebud	01-Jan-2000	31-Dec-2005
087	0307	68109	2 Elapsed Sample Time	INTERSECTION OF HWY 212 & 39, LAME DEER	Rosebud	01-Jan-2000	31-Dec-2005
087	0307	68109	1 Elapsed Sample Time	INTERSECTION OF HWY 212 & 39, LAME DEER	Rosebud	01-Jan-2000	31-Dec-2005
087	0307	81102	3 PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	INTERSECTION OF HWY 212 & 39, LAME DEER	Rosebud	01-Jan-1998	31-Dec-1999
087	0307	81102	2 PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	INTERSECTION OF HWY 212 & 39, LAME DEER	Rosebud	01-Jan-1997	
087	0307	81102	1 PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	INTERSECTION OF HWY 212 & 39, LAME DEER	Rosebud	01-Nov-1988	29-Dec-2003
087	0307	85101	2 PM <sub>10</sub> - Lc	INTERSECTION OF HWY 212 & 39, LAME DEER	Rosebud	01-Jan-1998	
087	0307	85101	1 PM <sub>10</sub> - Lc	INTERSECTION OF HWY 212 & 39, LAME DEER	Rosebud	01-Jan-1998	29-Dec-2003
087	0307	85101	3 PM <sub>10</sub> - Lc	INTERSECTION OF HWY 212 & 39, LAME DEER	Rosebud	01-Jan-1998	01-Jan-2000
087	0307	88101	1 PM <sub>2.5</sub> - Local Conditions	INTERSECTION OF HWY 212 & 39, LAME DEER	Rosebud	01-Jan-2000	31-Dec-2005
087	0307	88101	2 PM <sub>2.5</sub> - Local Conditions	INTERSECTION OF HWY 212 & 39, LAME DEER	Rosebud	01-Jan-2000	31-Dec-2005
087	0614	61101	1 Wind Speed	MPC #14, MET TOWER, COLSTRIP	Rosebud	10-Nov-1973	30-Jun-1992
087	0614	61101	2 Wind Speed	MPC #14, MET TOWER, COLSTRIP	Rosebud	10-Nov-1973	30-Jun-1992
087	0614	61102	1 Wind Direction	MPC #14, MET TOWER, COLSTRIP	Rosebud	10-Nov-1973	30-Jun-1992
087	0614	61102	2 Wind Direction	MPC #14, MET TOWER, COLSTRIP	Rosebud	10-Nov-1973	30-Jun-1992
087	0614	61106	1 Std Dev Hz Wind Direction	MPC #14, MET TOWER, COLSTRIP	Rosebud	26-Aug-1986	30-Jun-1992
087	0614	61106	2 Std Dev Hz Wind Direction	MPC #14, MET TOWER, COLSTRIP	Rosebud	26-Aug-1986	30-Jun-1992
087	0614	62101	1 Outdoor Temperature	MPC #14, MET TOWER, COLSTRIP	Rosebud	01-Dec-1973	30-Jun-1992
087	0614	62103	1 Dew Point	MPC #14, MET TOWER, COLSTRIP	Rosebud	29-Feb-1984	30-Jun-1992
087	0614	62106	2 Temperature Difference	MPC #14, MET TOWER, COLSTRIP	Rosebud	23-Nov-1983	30-Jun-1992
087	0614	62106	1 Temperature Difference	MPC #14, MET TOWER, COLSTRIP	Rosebud	23-Nov-1983	30-Jun-1992
087	0700	11101	2 Suspended Particulate (Tsp)	MPC #3, CEDAR AVE HILL, COLSTRIP	Rosebud	19-Jan-1972	31-Dec-1990
087	0700	11101	1 Suspended Particulate (Tsp)	MPC #3, CEDAR AVE HILL, COLSTRIP	Rosebud	19-Jan-1972	31-Dec-1990
087	0700	12209	1 Fluoride (Paper Samplers)	MPC #3, CEDAR AVE HILL, COLSTRIP	Rosebud	02-Dec-1971	31-Dec-1988
087	0700	21101	1 Total Dustfall (Sp)	MPC #3, CEDAR AVE HILL, COLSTRIP	Rosebud	02-Dec-1971	01-Jan-1996
087	0700	42401	1 Sulfur Dioxide	MPC #3, CEDAR AVE HILL, COLSTRIP	Rosebud	01-Apr-1982	31-Dec-2001
087	0700	42410	1 Sulfation Rate	MPC #3, CEDAR AVE HILL, COLSTRIP	Rosebud	02-Dec-1971	31-Dec-1988
087	0700	42602	1 Nitrogen Dioxide	MPC #3, CEDAR AVE HILL, COLSTRIP	Rosebud	01-Apr-1982	31-Dec-2001
087	0700	61101	1 Wind Speed	MPC #3, CEDAR AVE HILL, COLSTRIP	Rosebud	01-Apr-1982	30-Jun-1992
087	0700	61102	1 Wind Direction	MPC #3, CEDAR AVE HILL, COLSTRIP	Rosebud	01-Apr-1982	30-Jun-1992

087	0700	61106	1	Std Dev Hz Wind Direction	MPC #3, CEDAR AVE HILL, COLSTRIP	Rosebud	01-Apr-1982	30-Jun-1992
087	0700	62101	1	Outdoor Temperature	MPC #3, CEDAR AVE HILL, COLSTRIP	Rosebud	01-Apr-1982	30-Jun-1992
087	0700	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	MPC #3, CEDAR AVE HILL, COLSTRIP	Rosebud	06-Dec-1989	31-Dec-1997
087	0700	81102	2	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	MPC #3, CEDAR AVE HILL, COLSTRIP	Rosebud	06-Dec-1989	31-Dec-1990
087	0700	85101	1	PM <sub>10</sub> - Lc	MPC #3, CEDAR AVE HILL, COLSTRIP	Rosebud	01-Jan-1998	31-Dec-2001
087	0701	11101	1	Suspended Particulate (Tsp)	MPC #1,HIWAY 39 INDUSTRIAL PARK,COLSTRIP	Rosebud	20-Dec-1972	30-Jun-1992
087	0701	11101	2	Suspended Particulate (Tsp)	MPC #1,HIWAY 39 INDUSTRIAL PARK,COLSTRIP	Rosebud	20-Dec-1972	31-Dec-1988
087	0701	12209	1	Fluoride (Paper Samplers)	MPC #1,HIWAY 39 INDUSTRIAL PARK,COLSTRIP	Rosebud	01-Jan-1973	31-Dec-1988
087	0701	21101	1	Total Dustfall (Sp)	MPC #1,HIWAY 39 INDUSTRIAL PARK,COLSTRIP	Rosebud	31-Dec-1972	01-Jan-1996
087	0701	42401	1	Sulfur Dioxide	MPC #1,HIWAY 39 INDUSTRIAL PARK,COLSTRIP	Rosebud	15-Jun-1981	31-Dec-2001
087	0701	42410	1	Sulfation Rate	MPC #1,HIWAY 39 INDUSTRIAL PARK,COLSTRIP	Rosebud	01-Jan-1973	31-Dec-1988
087	0701	42602	1	Nitrogen Dioxide	MPC #1,HIWAY 39 INDUSTRIAL PARK,COLSTRIP	Rosebud	15-Jun-1981	31-Dec-2001
087	0701	61101	1	Wind Speed	MPC #1,HIWAY 39 INDUSTRIAL PARK,COLSTRIP	Rosebud	30-Jun-1981	31-Dec-2001
087	0701	61102	1	Wind Direction	MPC #1,HIWAY 39 INDUSTRIAL PARK,COLSTRIP	Rosebud	30-Jun-1981	31-Dec-2001
087	0701	61106	1	Std Dev Hz Wind Direction	MPC #1,HIWAY 39 INDUSTRIAL PARK,COLSTRIP	Rosebud	30-Jun-1981	31-Dec-2001
087	0701	62101	1	Outdoor Temperature	MPC #1,HIWAY 39 INDUSTRIAL PARK,COLSTRIP	Rosebud	30-Jun-1981	31-Dec-2001
087	0701	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	MPC #1,HIWAY 39 INDUSTRIAL PARK,COLSTRIP	Rosebud	02-Jul-1992	31-Dec-1997
087	0701	85101	1	PM <sub>10</sub> - Lc	MPC #1,HIWAY 39 INDUSTRIAL PARK,COLSTRIP	Rosebud	01-Jan-1998	31-Dec-2001
087	0702	11101	1	Suspended Particulate (Tsp)	MPC #2, 5&6 POND WEST, COLSTRIP	Rosebud	20-Dec-1972	30-Jun-1992
087	0702	11101	2	Suspended Particulate (Tsp)	MPC #2, 5&6 POND WEST, COLSTRIP	Rosebud	20-Dec-1972	31-Dec-1988
087	0702	12209	1	Fluoride (Paper Samplers)	MPC #2, 5&6 POND WEST, COLSTRIP	Rosebud	01-Jan-1973	31-Dec-1988
087	0702	21101	1	Total Dustfall (Sp)	MPC #2, 5&6 POND WEST, COLSTRIP	Rosebud	31-Dec-1972	31-Dec-1995
087	0702	42401	1	Sulfur Dioxide	MPC #2, 5&6 POND WEST, COLSTRIP	Rosebud	23-Jun-1981	31-Dec-2001
087	0702	42410	1	Sulfation Rate	MPC #2, 5&6 POND WEST, COLSTRIP	Rosebud	01-Jan-1973	31-Dec-1988
087	0702	42602	1	Nitrogen Dioxide	MPC #2, 5&6 POND WEST, COLSTRIP	Rosebud	23-Jun-1981	31-Dec-2001
087	0702	61101	1	Wind Speed	MPC #2, 5&6 POND WEST, COLSTRIP	Rosebud	23-Jun-1981	31-Dec-2001
087	0702	61102	1	Wind Direction	MPC #2, 5&6 POND WEST, COLSTRIP	Rosebud	23-Jun-1981	31-Dec-2001
087	0702	61106	1	Std Dev Hz Wind Direction	MPC #2, 5&6 POND WEST, COLSTRIP	Rosebud	23-Jun-1981	31-Dec-2001
087	0702	62101	1	Outdoor Temperature	MPC #2, 5&6 POND WEST, COLSTRIP	Rosebud	23-Jun-1981	31-Dec-2001
087	0702	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	MPC #2, 5&6 POND WEST, COLSTRIP	Rosebud	02-Jul-1992	01-Jul-1995
087	0703	11101	1	Suspended Particulate (Tsp)	PO BOX 38 COLSTRIP MT	Rosebud	01-Jan-1981	31-Dec-1982
087	0703	12209	1	Fluoride (Paper Samplers)	PO BOX 38 COLSTRIP MT	Rosebud	01-Jan-1981	31-Dec-1982
087	0703	21101	1	Total Dustfall (Sp)	PO BOX 38 COLSTRIP MT	Rosebud	01-Jan-1981	31-Dec-1981

087	0703	42401	1 Sulfur Dioxide	PO BOX 38 COLSTRIP MT	Rosebud	01-Jan-1982	31-Dec-1982
087	0703	42410	1 Sulfation Rate	PO BOX 38 COLSTRIP MT	Rosebud	01-Jan-1981	31-Dec-1981
087	0703	42602	1 Nitrogen Dioxide	PO BOX 38 COLSTRIP MT	Rosebud	01-Jan-1982	31-Dec-1982
087	0704	11101	2 Suspended Particulate (Tsp)	MPC #4, HAWTHORNE HILL, COLSTRIP	Rosebud	06-Aug-1977	31-Dec-1988
087	0704	11101	1 Suspended Particulate (Tsp)	MPC #4, HAWTHORNE HILL, COLSTRIP	Rosebud	06-Aug-1977	30-Jun-1992
087	0704	12209	1 Fluoride (Paper Samplers)	MPC #4, HAWTHORNE HILL, COLSTRIP	Rosebud	02-Sep-1983	31-Dec-1988
087	0704	21101	1 Total Dustfall (Sp)	MPC #4, HAWTHORNE HILL, COLSTRIP	Rosebud	01-Dec-1977	30-Jun-1992
087	0704	42401	1 Sulfur Dioxide	MPC #4, HAWTHORNE HILL, COLSTRIP	Rosebud	29-Jan-1977	30-Jun-1992
087	0704	42410	1 Sulfation Rate	MPC #4, HAWTHORNE HILL, COLSTRIP	Rosebud	01-Jan-1983	31-Dec-1988
087	0704	42602	1 Nitrogen Dioxide	MPC #4, HAWTHORNE HILL, COLSTRIP	Rosebud	29-Jan-1977	30-Jun-1992
087	0704	61101	1 Wind Speed	MPC #4, HAWTHORNE HILL, COLSTRIP	Rosebud	10-Aug-1981	30-Jun-1992
087	0704	61102	1 Wind Direction	MPC #4, HAWTHORNE HILL, COLSTRIP	Rosebud	10-Aug-1981	30-Jun-1992
087	0704	61106	1 Std Dev Hz Wind Direction	MPC #4, HAWTHORNE HILL, COLSTRIP	Rosebud	10-Aug-1981	30-Jun-1992
087	0704	62101	1 Outdoor Temperature	MPC #4, HAWTHORNE HILL, COLSTRIP	Rosebud	10-Aug-1981	30-Jun-1992
087	0705	12209	1 Fluoride (Paper Samplers)	MPC #5, SNIDER RANCH, COLSTRIP	Rosebud	01-Apr-1979	31-Dec-1988
087	0705	21101	1 Total Dustfall (Sp)	MPC #5, SNIDER RANCH, COLSTRIP	Rosebud	01-Apr-1979	31-Dec-1981
087	0705	42410	1 Sulfation Rate	MPC #5, SNIDER RANCH, COLSTRIP	Rosebud	01-Apr-1979	31-Dec-1988
087	0706	12209	1 Fluoride (Paper Samplers)	MPC #6, NORTH FORK COW CREEK, COLSTRIP	Rosebud	01-Dec-1972	31-Dec-1988
087	0706	42410	1 Sulfation Rate	MPC #6, NORTH FORK COW CREEK, COLSTRIP	Rosebud	01-Dec-1972	31-Dec-1988
087	0707	12209	1 Fluoride (Paper Samplers)	MPC #7, AREA B SOUTH, COLSTRIP	Rosebud	01-Sep-1972	31-Dec-1988
087	0707	42410	1 Sulfation Rate	MPC #7, AREA B SOUTH, COLSTRIP	Rosebud	01-Sep-1972	31-Dec-1988
087	0708	12209	1 Fluoride (Paper Samplers)	MPC #8, AIRPORT SITE, COLSTRIP	Rosebud	01-Sep-1972	31-Dec-1988
087	0708	42410	1 Sulfation Rate	MPC #8, AIRPORT SITE, COLSTRIP	Rosebud	01-Sep-1972	31-Dec-1988
087	0709	12209	1 Fluoride (Paper Samplers)	MPC #9, AREA A NORTH, COLSTRIP	Rosebud	01-Sep-1972	31-Dec-1988
087	0709	42410	1 Sulfation Rate	MPC #9, AREA A NORTH, COLSTRIP	Rosebud	01-Sep-1972	31-Dec-1988
087	0710	12209	1 Fluoride (Paper Samplers)	MPC #10, GOBBLERS KNOB, COLSTRIP	Rosebud	01-Sep-1972	31-Dec-1988
087	0710	42410	1 Sulfation Rate	MPC #10, GOBBLERS KNOB, COLSTRIP	Rosebud	01-Sep-1972	31-Dec-1988
087	0711	12209	1 Fluoride (Paper Samplers)	MPC #11,SOUTH FORK OF COW CREEK,COLSTRIP	Rosebud	01-Sep-1972	31-Dec-1988
087	0711	42410	1 Sulfation Rate	MPC #11,SOUTH FORK OF COW CREEK,COLSTRIP	Rosebud	01-Sep-1972	31-Dec-1988
087	0712	12209	1 Fluoride (Paper Samplers)	MPC #12, MCDONALDS, COLSTRIP	Rosebud	01-Sep-1972	31-Dec-1988
087	0712	42410	1 Sulfation Rate	MPC #12, MCDONALDS, COLSTRIP	Rosebud	01-Sep-1972	31-Dec-1988
087	0713	12209	1 Fluoride (Paper Samplers)	MPC #13, PROSPECTOR HILL, COLSTRIP	Rosebud	01-Dec-1972	31-Dec-1988
087	0713	21101	1 Total Dustfall (Sp)	MPC #13, PROSPECTOR HILL, COLSTRIP	Rosebud	01-Dec-1972	31-Dec-1983

087	0713	42410	1 Sulfation Rate	MPC #13, PROSPECTOR HILL, COLSTRIP	Rosebud	01-Dec-1972	31-Dec-1988
087	0714	11101	1 Suspended Particulate (Tsp)	WECO #1-WEST OF GOLF COURSE, COLSTRIP	Rosebud	01-Jan-1981	30-Apr-1992
087	0714	11101	2 Suspended Particulate (Tsp)	WECO #1-WEST OF GOLF COURSE, COLSTRIP	Rosebud	01-Feb-1987	31-Dec-1990
087	0714	81102	1 PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	WECO #1-WEST OF GOLF COURSE, COLSTRIP	Rosebud	12-May-1992	31-Dec-1997
087	0714	85101	1 PM <sub>10</sub> - Lc	WECO #1-WEST OF GOLF COURSE, COLSTRIP	Rosebud	01-Jan-1998	01-Jul-2001
087	0715	11101	1 Suspended Particulate (Tsp)	WECO #2-E TOWN ENTRANCE, HIWAY 39, COLSTRP	Rosebud	01-Jan-1981	31-Dec-1984
087	0716	11101	1 Suspended Particulate (Tsp)	WECO #3-S TOWN, HIWAY 39 AREA B, COLSTRIP	Rosebud	01-Jan-1981	31-Dec-1984
087	0716	11101	2 Suspended Particulate (Tsp)	WECO #3-S TOWN, HIWAY 39 AREA B, COLSTRIP	Rosebud	01-Jan-1981	31-Dec-1984
087	0716	21101	1 Total Dustfall (Sp)	WECO #3-S TOWN, HIWAY 39 AREA B, COLSTRIP	Rosebud	01-Jan-1981	31-Dec-1984
087	0716	21101	3 Total Dustfall (Sp)	WECO #3-S TOWN, HIWAY 39 AREA B, COLSTRIP	Rosebud	01-Jan-1981	31-Dec-1984
087	0717	11101	1 Suspended Particulate (Tsp)	WECO #4-AREA A-INSIDE RR LOOP & LOADOUT	Rosebud	01-Jan-1981	31-Dec-1984
087	0717	21101	1 Total Dustfall (Sp)	WECO #4-AREA A-INSIDE RR LOOP & LOADOUT	Rosebud	01-Jan-1981	31-Dec-1984
087	0718	11101	1 Suspended Particulate (Tsp)	WECO #5-NEAR LOADOUT-N RR LOOP, COLSTRIP	Rosebud	01-Jan-1981	31-Dec-1982
087	0719	11101	1 Suspended Particulate (Tsp)	WECO #6-W COAL PILE AREA IN BULL PASTURE	Rosebud	01-Jan-1981	31-Dec-1982
087	0719	21101	1 Total Dustfall (Sp)	WECO #6-W COAL PILE AREA IN BULL PASTURE	Rosebud	01-Jan-1981	31-Dec-1981
087	0720	11101	1 Suspended Particulate (Tsp)	WECO #7-AREA LOADOUT IN RR TRACK LOOP	Rosebud	01-Jan-1981	31-Dec-1984
087	0720	21101	1 Total Dustfall (Sp)	WECO #7-AREA LOADOUT IN RR TRACK LOOP	Rosebud	01-Jan-1981	31-Dec-1984
087	0721	11101	1 Suspended Particulate (Tsp)	WECO #8-S TOWN IN PIT 6, RECLAIM AREA	Rosebud	01-Jan-1981	31-Dec-1984
087	0722	11101	1 Suspended Particulate (Tsp)	PEABODY-BIG SKY #1,MINE OFFICE,COLSTRIP	Rosebud	01-Jan-1980	31-Dec-1983
087	0722	61101	1 Wind Speed	PEABODY-BIG SKY #1,MINE OFFICE,COLSTRIP	Rosebud	01-Jan-1989	30-Sep-2003
087	0722	61102	1 Wind Direction	PEABODY-BIG SKY #1,MINE OFFICE,COLSTRIP	Rosebud	01-Jan-1989	30-Sep-2003
087	0722	61106	1 Std Dev Hz Wind Direction	PEABODY-BIG SKY #1,MINE OFFICE,COLSTRIP	Rosebud	01-Jan-1989	30-Sep-2003
087	0722	62101	1 Outdoor Temperature	PEABODY-BIG SKY #1,MINE OFFICE,COLSTRIP	Rosebud	01-Jan-1989	30-Sep-2003
087	0723	11101	1 Suspended Particulate (Tsp)	PEABODY-BIG SKY #2,SUBSTATION,COLSTRIP	Rosebud	01-Jan-1980	30-Apr-1990
087	0725	11101	1 Suspended Particulate (Tsp)	PEABODY-BIG SKY POWDER MAGAZINE #4	Rosebud	01-Jan-1980	31-Dec-1988
087	0725	81102	1 PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	PEABODY-BIG SKY POWDER MAGAZINE #4	Rosebud	04-Jan-1989	31-Dec-1997
087	0725	85101	1 PM <sub>10</sub> - Lc	PEABODY-BIG SKY POWDER MAGAZINE #4	Rosebud	01-Jan-1998	30-Sep-2003
087	0726	11101	1 Suspended Particulate (Tsp)	WECO #9-S TOWN AREA B-W HIWAY 39	Rosebud	01-Jan-1981	30-Apr-1992
087	0726	81102	1 PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	WECO #9-S TOWN AREA B-W HIWAY 39	Rosebud	12-May-1992	31-Dec-1997
087	0726	85101	1 PM10 - Lc	WECO #9-S TOWN AREA B-W HIWAY 39	Rosebud	01-Jan-1998	01-Jul-2001
087	0727	11101	1 Suspended Particulate (Tsp)	WECO #10-S TOWN AREA B-RANGE HILLSIDE	Rosebud	01-Jan-1981	30-Apr-1992
087	0727	81102	1 PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	WECO #10-S TOWN AREA B-RANGE HILLSIDE	Rosebud	12-May-1992	31-Dec-1997
087	0727	85101	1 PM10 - Lc	WECO #10-S TOWN AREA B-RANGE HILLSIDE	Rosebud	01-Jan-1998	01-Jul-2001

087	0728	11101	1 Suspended Particulate (Tsp)	WECO #11-W TOWN AREA C-FENCED PASTURE	Rosebud	01-Jan-1981	30-Apr-1992
087	0728	21101	1 Total Dustfall (Sp)	WECO #11-W TOWN AREA C-FENCED PASTURE	Rosebud	01-Jul-1981	31-Dec-1984
087	0728	81102	1 PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	WECO #11-W TOWN AREA C-FENCED PASTURE	Rosebud	12-May-1992	31-Dec-1997
087	0728	85101	1 PM <sub>10</sub> - Lc	WECO #11-W TOWN AREA C-FENCED PASTURE	Rosebud	01-Jan-1998	01-Jul-2001
087	0729	11101	1 Suspended Particulate (Tsp)	WECO #13-W TOWN AREA C-CATTLE PASTURE	Rosebud	20-Jun-1987	30-Apr-1992
087	0729	61101	1 Wind Speed	WECO #13-W TOWN AREA C-CATTLE PASTURE	Rosebud	01-Jan-1981	31-Dec-1982
087	0729	61102	1 Wind Direction	WECO #13-W TOWN AREA C-CATTLE PASTURE	Rosebud	01-Jan-1981	31-Dec-1982
087	0729	81102	1 PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	WECO #13-W TOWN AREA C-CATTLE PASTURE	Rosebud	12-May-1992	31-Dec-1997
087	0729	85101	1 PM <sub>10</sub> - Lc	WECO #13-W TOWN AREA C-CATTLE PASTURE	Rosebud	01-Jan-1998	01-Jul-2001
087	0730	61101	1 Wind Speed	WECO #13-NE TIP RR LOOP AREA A	Rosebud	01-Jan-1982	31-Dec-1987
087	0730	61102	1 Wind Direction	WECO #13-NE TIP RR LOOP AREA A	Rosebud	01-Jan-1982	31-Dec-1987
087	0731	11101	1 Suspended Particulate (Tsp)	WECO #5-3 MI NE COLSTRIP-AREA D WEST	Rosebud	01-Jan-1982	06-May-1991
087	0732	11101	1 Suspended Particulate (Tsp)	WESTERN ENERGY #14, COLSTRIP	Rosebud	30-Mar-1990	30-Apr-1992
087	0732	81102	1 PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	WESTERN ENERGY #14, COLSTRIP	Rosebud	12-May-1992	31-Dec-1997
087	0732	85101	1 PM <sub>10</sub> - Lc	WESTERN ENERGY #14, COLSTRIP	Rosebud	01-Jan-1998	01-Jul-2001
087	0733	11101	1 Suspended Particulate (Tsp)	WESTERN ENERGY CO - WECO #12, COLSTRIP	Rosebud	06-May-1991	30-Apr-1992
087	0733	81102	1 PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	WESTERN ENERGY CO - WECO #12, COLSTRIP	Rosebud	12-May-1992	31-Dec-1997
087	0733	85101	1 PM <sub>10</sub> - Lc	WESTERN ENERGY CO - WECO #12, COLSTRIP	Rosebud	01-Jan-1998	01-Jul-2001
087	0735	11101	1 Suspended Particulate (Tsp)	PEABODY-BIG SKY #5,TIPPLE	Rosebud	01-Jan-1980	30-Apr-1990
087	0736	11101	2 Suspended Particulate (Tsp)	PEABODY-BIG SKY #6,COULEE	Rosebud	01-Jan-1980	30-Apr-1990
087	0736	11101	1 Suspended Particulate (Tsp)	PEABODY-BIG SKY #6,COULEE	Rosebud	01-Jan-1980	30-Apr-1990
087	0737	11101	1 Suspended Particulate (Tsp)	PEABODY-BIG SKY #8,HIWAYE	Rosebud	01-Jan-1980	31-Dec-1985
087	0738	61101	1 Wind Speed	PEABODY-BIG SKY #9,UPPER AREA B	Rosebud	01-Jan-1989	30-Sep-2003
087	0738	61102	1 Wind Direction	PEABODY-BIG SKY #9,UPPER AREA B	Rosebud	01-Jan-1989	30-Sep-2003
087	0738	61106	1 Std Dev Hz Wind Direction	PEABODY-BIG SKY #9,UPPER AREA B	Rosebud	01-Jan-1989	30-Sep-2003
087	0738	62101	1 Outdoor Temperature	PEABODY-BIG SKY #9,UPPER AREA B	Rosebud	01-Jan-1989	30-Sep-2003
087	0738	81102	1 PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	PEABODY-BIG SKY #9,UPPER AREA B	Rosebud	04-Jan-1989	31-Dec-1997
087	0738	85101	1 PM <sub>10</sub> - Lc	PEABODY-BIG SKY #9,UPPER AREA B	Rosebud	01-Jan-1998	30-Sep-2003
087	0739	81102	2 PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	PEABODY-BIG SKY #10,LOWER AREA B	Rosebud	03-Jul-1989	31-Dec-1990
087	0739	81102	1 PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	PEABODY-BIG SKY #10,LOWER AREA B	Rosebud	03-Jul-1989	31-Dec-1997
087	0739	85101	1 PM <sub>10</sub> - Lc	PEABODY-BIG SKY #10,LOWER AREA B	Rosebud	01-Jan-1998	30-Sep-2003
087	0760	11101	1 Suspended Particulate (Tsp)	NO CHEYENNE, MORNINGSTAR, COLSTRIP	Rosebud	01-Mar-1981	01-Sep-1993
087	0760	11203	1 Light Scatter	NO CHEYENNE, MORNINGSTAR, COLSTRIP	Rosebud	01-Mar-1981	

087	0760	42401	1 Sulfur Dioxide	NO CHEYENNE, MORNINGSTAR, COLSTRIP	Rosebud	01-Mar-1981	
087	0760	42602	1 Nitrogen Dioxide	NO CHEYENNE, MORNINGSTAR, COLSTRIP	Rosebud	01-Mar-1981	
087	0760	61101	1 Wind Speed	NO CHEYENNE, MORNINGSTAR, COLSTRIP	Rosebud	01-Mar-1981	
087	0760	61102	1 Wind Direction	NO CHEYENNE, MORNINGSTAR, COLSTRIP	Rosebud	01-Mar-1981	
087	0760	61106	1 Std Dev Hz Wind Direction	NO CHEYENNE, MORNINGSTAR, COLSTRIP	Rosebud	01-Mar-1981	
087	0760	62101	1 Outdoor Temperature	NO CHEYENNE, MORNINGSTAR, COLSTRIP	Rosebud	01-Mar-1981	
087	0760	62103	1 Dew Point	NO CHEYENNE, MORNINGSTAR, COLSTRIP	Rosebud	01-Mar-1981	
087	0760	63301	1 Solar Radiation	NO CHEYENNE, MORNINGSTAR, COLSTRIP	Rosebud	01-Mar-1981	
087	0760	64101	1 Barometric Pressure	NO CHEYENNE, MORNINGSTAR, COLSTRIP	Rosebud	01-Mar-1981	
087	0760	65102	1 Rain/Melt Precipitation	NO CHEYENNE, MORNINGSTAR, COLSTRIP	Rosebud	01-Mar-1981	01-Feb-1997
087	0760	81102	1 PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	NO CHEYENNE, MORNINGSTAR, COLSTRIP	Rosebud	29-Aug-1993	31-Dec-1996
087	0761	11101	1 Suspended Particulate (Tsp)	NO CHEYENNE, GARFIELD PEAK, COLSTRIP	Rosebud	01-Mar-1981	01-Sep-1993
087	0761	42401	1 Sulfur Dioxide	NO CHEYENNE, GARFIELD PEAK, COLSTRIP	Rosebud	01-Mar-1981	
087	0761	42602	1 Nitrogen Dioxide	NO CHEYENNE, GARFIELD PEAK, COLSTRIP	Rosebud	01-Mar-1981	
087	0761	61101	1 Wind Speed	NO CHEYENNE, GARFIELD PEAK, COLSTRIP	Rosebud	01-Mar-1981	
087	0761	61102	1 Wind Direction	NO CHEYENNE, GARFIELD PEAK, COLSTRIP	Rosebud	01-Mar-1981	
087	0761	61106	1 Std Dev Hz Wind Direction	NO CHEYENNE, GARFIELD PEAK, COLSTRIP	Rosebud	01-Mar-1981	
087	0761	62101	1 Outdoor Temperature	NO CHEYENNE, GARFIELD PEAK, COLSTRIP	Rosebud	01-Mar-1981	
087	0761	62103	1 Dew Point	NO CHEYENNE, GARFIELD PEAK, COLSTRIP	Rosebud	01-Mar-1981	01-Jan-1995
087	0761	63301	1 Solar Radiation	NO CHEYENNE, GARFIELD PEAK, COLSTRIP	Rosebud	01-Mar-1981	01-Jan-1995
087	0761	65102	1 Rain/Melt Precipitation	NO CHEYENNE, GARFIELD PEAK, COLSTRIP	Rosebud	01-Mar-1981	31-Jan-1997
087	0762	11101	1 Suspended Particulate (Tsp)	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Mar-1981	01-Sep-1993
087	0762	11208	1 Deciview	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jun-2002	
087	0762	42401	2 Sulfur Dioxide	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jun-2002	
087	0762	42401	1 Sulfur Dioxide	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Mar-1981	
087	0762	42602	1 Nitrogen Dioxide	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Mar-1981	
087	0762	61101	1 Wind Speed	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Mar-1981	
087	0762	61102	1 Wind Direction	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Mar-1981	
087	0762	61106	1 Std Dev Hz Wind Direction	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Mar-1981	
087	0762	62101	1 Outdoor Temperature	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Mar-1981	
087	0762	62103	1 Dew Point	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Mar-1981	01-Jan-1995
087	0762	62201	1 Relative Humidity	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jun-2002	
087	0762	62202	1 Relative Humidity Factor	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jun-2002	

087	0762	63102	1	Light Absorption Coeffiecient	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jan-2002	
087	0762	63301	1	Solar Radiation	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Mar-1981	01-Jan-1995
087	0762	65102	1	Rain/Melt Precipitation	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Mar-1981	01-Feb-1997
087	0762	81103	1	Pm 10 <sub>2.5</sub> Stp	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jan-2005	
087	0762	84306	1	Nitrate PM <sub>2.5</sub> Stp	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jan-2006	
087	0762	85101	1	PM <sub>10</sub> - Lc	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jun-2002	
087	0762	86502	1	Acceptable PM <sub>102.5</sub> LC	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jan-2002	
087	0762	88103	1	Arsenic PM <sub>2.5</sub> Lc	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jun-2002	
087	0762	88104	1	Aluminum PM <sub>2.5</sub> Lc	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jun-2002	
087	0762	88109	1	Bromine PM <sub>2.5</sub> Lc	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jun-2002	
087	0762	88111	1	Calcium PM <sub>2.5</sub> Lc	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jun-2002	
087	0762	88112	1	Chromium PM <sub>2.5</sub> Lc	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jun-2002	
087	0762	88114	1	Copper PM <sub>2.5</sub> Lc	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jun-2002	
087	0762	88115	1	Chlorine PM <sub>2.5</sub> Lc	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jun-2002	
087	0762	88126	1	Iron PM <sub>2.5</sub> Lc	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jun-2002	
087	0762	88128	1	Lead PM <sub>2.5</sub> Lc	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jun-2002	
087	0762	88132	1	Manganese PM <sub>2.5</sub> Lc	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jun-2002	
087	0762	88136	1	Nickel PM <sub>2.5</sub> Lc	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jun-2002	
087	0762	88140	1	Magnesium PM <sub>2.5</sub> Lc	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jun-2002	
087	0762	88152	1	Phosphorus PM <sub>2.5</sub> Lc	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jun-2002	
087	0762	88154	1	Selenium PM <sub>2.5</sub> Lc	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jun-2002	
087	0762	88161	1	Titanium PM <sub>2.5</sub> Lc	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jun-2002	
087	0762	88164	1	Vanadium PM <sub>2.5</sub> Lc	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jun-2002	
087	0762	88165	1	Silicon PM <sub>2.5</sub> Lc	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jun-2002	
087	0762	88167	1	Zinc PM <sub>2.5</sub> Lc	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jun-2002	
087	0762	88168	1	Strontium PM <sub>2.5</sub> Lc	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jun-2002	
087	0762	88169	1	Sulfur PM <sub>2.5</sub> Lc	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jun-2002	
087	0762	88176	1	Rubidium PM <sub>2.5</sub> Lc	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jun-2002	
087	0762	88180	1	Potassium PM <sub>2.5</sub> Lc	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jun-2002	
087	0762	88184	1	Sodium PM <sub>2.5</sub> Lc	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jun-2002	
087	0762	88185	1	Zirconium PM <sub>2.5</sub> Lc	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jun-2002	
087	0762	88203	1	Chloride PM <sub>2.5</sub> Lc	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jun-2002	
087	0762	88301	1	Ammonium Ion PM <sub>2.5</sub> Lc	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jun-2002	

087	0762	88306	1	Total Nitrate PM <sub>2.5</sub> Lc	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jun-2002	
087	0762	88307	1	Ec Csn PM <sub>2.5</sub> LC	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jan-2002	
087	0762	88320	1	Oc PM <sub>2.5</sub> Lc Tor	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jan-2002	
087	0762	88321	1	Ec PM <sub>2.5</sub> Lc Tor	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jan-2005	
087	0762	88328	1	Op PM <sub>2.5</sub> Lc Tor	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jan-2005	
087	0762	88329	1	Ec1 PM <sub>2.5</sub> Lc	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jun-2002	
087	0762	88330	1	Ec2 PM <sub>2.5</sub> Lc	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jun-2002	
087	0762	88331	1	Ec3 PM <sub>2.5</sub> Lc	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jun-2002	
087	0762	88332	1	Oc1 Csn Unadj PM <sub>2.5</sub> LC	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jun-2002	
087	0762	88333	1	Oc2 Csn Unadj PM <sub>2.5</sub> LC	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jun-2002	
087	0762	88334	1	Oc3 Csn Unadj PM <sub>2.5</sub> LC	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jun-2002	
087	0762	88335	1	Oc4 Csn Unadj PM <sub>2.5</sub> LC	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jun-2002	
087	0762	88336	1	Op Csn PM <sub>2.5</sub> LC	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jun-2002	
087	0762	88337	1	Hydrogen PM <sub>2.5</sub> Lc	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jun-2002	
087	0762	88338	1	Nitrite PM <sub>2.5</sub> Lc	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jun-2002	
087	0762	88339	1	NH4NO3 PM <sub>2.5</sub> Lc	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jan-2002	
087	0762	88340	1	NH4NO3 Extinct.PM <sub>2.5</sub> Lc	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jan-2002	
087	0762	88341	1	Aerosol Extinct.PM <sub>2.5</sub> Lc	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jan-2002	
087	0762	88342	1	Coar. Mass Extinct.PM25 Lc	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jan-2002	
087	0762	88343	1	EC Extinct.PM <sub>2.5</sub> Lc	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jan-2002	
087	0762	88344	1	NH4NO3 PM <sub>2.5</sub> Lc	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jan-2002	
087	0762	88345	1	NH4NO3 Extinct. PM <sub>2.5</sub> Lc	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jan-2002	
087	0762	88346	1	OC Extinct.PM <sub>2.5</sub> Lc	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jan-2002	
087	0762	88348	1	Soil PM <sub>2.5</sub> Lc	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jan-2002	
087	0762	88349	1	Soil Extinct.PM <sub>2.5</sub> Lc	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jan-2002	
087	0762	88350	1	OC Mass PM <sub>2.5</sub> Lc	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jan-2002	
087	0762	88395	1	Sea Salt (PM <sub>2.5</sub> )	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jan-2007	
087	0762	88401	1	Reconstruct.Mass PM <sub>2.5</sub> Lc	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jan-2002	
087	0762	88403	1	Sulfate PM <sub>2.5</sub> Lc	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jun-2002	
087	0762	88502	1	Accpt.PM25 AQI Spec.Mass	NO CHEYENNE, BADGER PEAK, COLSTRIP	Rosebud	01-Jun-2002	
087	0763	42401	1	Sulfur Dioxide	ROSEBUD ENERGY #1, 7 MI N COLSTRIP	Rosebud	01-Jul-1989	01-Apr-1998
087	0763	61101	1	Wind Speed	ROSEBUD ENERGY #1, 7 MI N COLSTRIP	Rosebud	19-Apr-1989	01-Apr-1998
087	0763	61102	1	Wind Direction	ROSEBUD ENERGY #1, 7 MI N COLSTRIP	Rosebud	19-Apr-1989	01-Apr-1998

087	0763	61106	1	Std Dev Hz Wind Direction	ROSEBUD ENERGY #1, 7 MI N COLSTRIP	Rosebud	19-Apr-1989	01-Apr-1998
087	0763	62101	1	Outdoor Temperature	ROSEBUD ENERGY #1, 7 MI N COLSTRIP	Rosebud	19-Apr-1989	01-Apr-1998
087	0763	81102	2	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	ROSEBUD ENERGY #1, 7 MI N COLSTRIP	Rosebud	03-Jul-1989	31-Dec-1990
087	0763	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	ROSEBUD ENERGY #1, 7 MI N COLSTRIP	Rosebud	03-Jul-1989	31-Dec-1997
087	0763	85101	1	PM <sub>10</sub> - Lc	ROSEBUD ENERGY #1, 7 MI N COLSTRIP	Rosebud	01-Jan-1998	07-Apr-1999
087	0764	42401	1	Sulfur Dioxide	ROSEBUD ENERGY #2, 6 MI N COLSTRIP	Rosebud	31-May-1989	31-Aug-1992
087	0764	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	ROSEBUD ENERGY #2, 6 MI N COLSTRIP	Rosebud	15-Jun-1989	31-Aug-1992
087	0765	42401	1	Sulfur Dioxide	ROSEBUD ENERGY #3-WIMERS,6 MI N COLSTRIP	Rosebud	31-May-1989	01-Sep-1992
087	0765	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	ROSEBUD ENERGY #3-WIMERS,6 MI N COLSTRIP	Rosebud	15-Jun-1989	31-Aug-1992
087	0766	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	CELP ROSEBUD ENERGY COLSTRIP #1(6 MI N)	Rosebud	05-Jul-2007	
087	0766	85101	1	PM10 - Lc	CELP ROSEBUD ENERGY COLSTRIP #1(6 MI N)	Rosebud	07-Apr-1999	
089	0001	11101	1	Suspended Particulate (Tsp)	MILLER RESIDENCE	Sanders	01-Jan-1972	31-Dec-1973
089	0001	11103	1	Benzene Sol.Organics(TSP)	MILLER RESIDENCE	Sanders	01-Jan-1972	31-Dec-1972
089	0001	12110	1	Cadmium (Tsp) Stp	MILLER RESIDENCE	Sanders	01-Jan-1972	31-Dec-1972
089	0001	12128	1	Lead (Tsp) Stp	MILLER RESIDENCE	Sanders	01-Jan-1972	31-Dec-1972
089	0001	12167	1	Zinc (Tsp) Stp	MILLER RESIDENCE	Sanders	01-Jan-1972	31-Dec-1972
089	0002	11101	1	Suspended Particulate (Tsp)	THOMPSON FALLS, MT	Sanders	01-Jan-1978	31-Dec-1978
089	0003	11101	1	Suspended Particulate (Tsp)	SANDERS CO COURTHOUSE, THOMPSON FALLS	Sanders	01-Jan-1983	31-Dec-1987
089	0003	12102	1	Antimony (Tsp) Stp	SANDERS CO COURTHOUSE, THOMPSON FALLS	Sanders	01-Jun-1984	31-Dec-1985
089	0003	12103	1	Arsenic (Tsp) Stp	SANDERS CO COURTHOUSE, THOMPSON FALLS	Sanders	01-Jun-1984	31-Dec-1985
089	0003	12110	1	Cadmium (Tsp) Stp	SANDERS CO COURTHOUSE, THOMPSON FALLS	Sanders	01-Jan-1984	31-Dec-1984
089	0003	12112	1	Chromium (Tsp) Stp	SANDERS CO COURTHOUSE, THOMPSON FALLS	Sanders	01-Jan-1984	31-Dec-1984
089	0003	12114	1	Copper (Tsp) Stp	SANDERS CO COURTHOUSE, THOMPSON FALLS	Sanders	01-Jan-1984	31-Dec-1984
089	0003	12126	1	Iron (Tsp) Stp	SANDERS CO COURTHOUSE, THOMPSON FALLS	Sanders	01-Jan-1984	31-Dec-1984
089	0003	12128	1	Lead (Tsp) Stp	SANDERS CO COURTHOUSE, THOMPSON FALLS	Sanders	01-Jan-1984	31-Dec-1984
089	0003	12167	1	Zinc (Tsp) Stp	SANDERS CO COURTHOUSE, THOMPSON FALLS	Sanders	01-Jan-1984	31-Dec-1984
089	0003	81102	2	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	SANDERS CO COURTHOUSE, THOMPSON FALLS	Sanders	27-Apr-1987	06-Jul-1999
089	0003	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	SANDERS CO COURTHOUSE, THOMPSON FALLS	Sanders	01-Jan-1985	04-Apr-1987
089	0003	85101	1	PM <sub>10</sub> - Lc	SANDERS CO COURTHOUSE, THOMPSON FALLS	Sanders	01-Jan-1998	08-Jul-1999
089	0004	11101	1	Suspended Particulate (Tsp)	DIXON, OLD TRIBAL HEADQUARTERS	Sanders	01-Jan-1984	31-Dec-1986
089	0004	61101	1	Wind Speed	DIXON, OLD TRIBAL HEADQUARTERS	Sanders	01-Jan-1984	31-Dec-1986
089	0004	61102	1	Wind Direction	DIXON, OLD TRIBAL HEADQUARTERS	Sanders	01-Jan-1984	31-Dec-1986
089	0004	62101	1	Outdoor Temperature	DIXON, OLD TRIBAL HEADQUARTERS	Sanders	01-Jan-1984	31-Dec-1986

089	0005	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	RAILROAD, MADISON ST & PRESTON AVE, TFALLS	Sanders	01-Oct-1990	31-Dec-1991
089	0006	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	MUSTER RANCH, N OF THOMPSON FALLS	Sanders	01-Oct-1990	31-Dec-1991
089	0007	68101	1	Sample Flow Rate- Cv	THOMPSON FALLS HIGH SCHL 1M N OF HWY 200	Sanders	01-Jan-2000	01-Jan-2007
089	0007	68102	1	Sample Volume	THOMPSON FALLS HIGH SCHL 1M N OF HWY 200	Sanders	01-Jan-2000	01-Jan-2007
089	0007	68103	1	Ambient Min Temperature	THOMPSON FALLS HIGH SCHL 1M N OF HWY 200	Sanders	01-Jan-2000	01-Jan-2007
089	0007	68104	1	Ambient Max Temperature	THOMPSON FALLS HIGH SCHL 1M N OF HWY 200	Sanders	01-Jan-2000	01-Jan-2007
089	0007	68105	1	Ambient Temperature	THOMPSON FALLS HIGH SCHL 1M N OF HWY 200	Sanders	01-Jan-2000	
089	0007	68106	1	Sample Min Baro Pressure	THOMPSON FALLS HIGH SCHL 1M N OF HWY 200	Sanders	01-Jan-2000	01-Jan-2007
089	0007	68107	1	Sample Max Baro Pressure	THOMPSON FALLS HIGH SCHL 1M N OF HWY 200	Sanders	01-Jan-2000	01-Jan-2007
089	0007	68108	1	Sample Baro Pressure	THOMPSON FALLS HIGH SCHL 1M N OF HWY 200	Sanders	01-Jan-2000	
089	0007	68109	1	Elapsed Sample Time	THOMPSON FALLS HIGH SCHL 1M N OF HWY 200	Sanders	01-Jan-2000	01-Jan-2007
089	0007	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	THOMPSON FALLS HIGH SCHL 1M N OF HWY 200	Sanders	03-Oct-1999	
089	0007	85101	1	PM10 - Lc	THOMPSON FALLS HIGH SCHL 1M N OF HWY 200	Sanders	03-Oct-1999	31-Dec-2008
089	0007	88101	1	PM <sub>2.5</sub> - Local Conditions	THOMPSON FALLS HIGH SCHL 1M N OF HWY 200	Sanders	01-Jan-2000	
089	0008	81102	2	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	249 AIRPORT RD, THOMPSON FALLS MT	Sanders	11-Mar-2005	05-Apr-2006
089	0008	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	249 AIRPORT RD, THOMPSON FALLS MT	Sanders	11-Mar-2005	05-Apr-2006
089	0008	85101	2	PM10 - Lc	249 AIRPORT RD, THOMPSON FALLS MT	Sanders	11-Mar-2005	05-Apr-2006
089	0008	85101	1	PM10 - Lc	249 AIRPORT RD, THOMPSON FALLS MT	Sanders	11-Mar-2005	05-Apr-2006
089	0009	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	US 200, 3.7 miles East of Thompson Falls	Sanders	30-Apr-2008	
089	0009	81102	2	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	US 200, 3.7 miles East of Thompson Falls	Sanders	30-Apr-2008	
089	0009	81102	2	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	US 200, 3.7 miles East of Thompson Falls	Sanders	08-Apr-2006	30-Sep-2006
089	0009	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	US 200, 3.7 miles East of Thompson Falls	Sanders	08-Apr-2006	30-Sep-2006
089	0009	85101	2	PM <sub>10</sub> - Lc	US 200, 3.7 miles East of Thompson Falls	Sanders	30-Apr-2008	
089	0009	85101	1	PM10 - Lc	US 200, 3.7 miles East of Thompson Falls	Sanders	08-Apr-2006	30-Sep-2006
089	0009	85101	2	PM10 - Lc	US 200, 3.7 miles East of Thompson Falls	Sanders	08-Apr-2006	30-Sep-2006
089	0009	85101	1	PM10 - Lc	US 200, 3.7 miles East of Thompson Falls	Sanders	30-Apr-2008	
089	0101	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	101 MAIN STREET	Sanders	03-Jan-1995	30-Dec-1995
089	9000	11208	1	Deciview	Cabinet Mountains	Sanders	26-Jul-2000	
089	9000	42401	1	Sulfur Dioxide	Cabinet Mountains	Sanders	26-Jul-2000	
089	9000	62201	1	Relative Humidity	Cabinet Mountains	Sanders	26-Jul-2000	
089	9000	62202	1	Relative Humidity Factor	Cabinet Mountains	Sanders	26-Jul-2000	
089	9000	63102	1	Light Absorption Coeffiecient	Cabinet Mountains	Sanders	26-Jul-2000	
089	9000	81103	1	Pm 10 <sub>2.5</sub> Stp	Cabinet Mountains	Sanders	01-Jan-2005	

089	9000	84203	1	Chloride PM <sub>2.5</sub> Stp	Cabinet Mountains	Sanders	26-Jul-2000
089	9000	84306	1	Nitrate PM <sub>2.5</sub> Stp	Cabinet Mountains	Sanders	01-Jan-2006
089	9000	85101	1	PM <sub>10</sub> - Lc	Cabinet Mountains	Sanders	26-Jul-2000
089	9000	86502	1	Acceptable PM <sub>102.5</sub> LC	Cabinet Mountains	Sanders	26-Jul-2000
089	9000	88103	1	Arsenic PM <sub>2.5</sub> Lc	Cabinet Mountains	Sanders	26-Jul-2000
089	9000	88104	1	Aluminum PM <sub>2.5</sub> Lc	Cabinet Mountains	Sanders	26-Jul-2000
089	9000	88109	1	Bromine PM <sub>2.5</sub> Lc	Cabinet Mountains	Sanders	26-Jul-2000
089	9000	88111	1	Calcium PM <sub>2.5</sub> Lc	Cabinet Mountains	Sanders	26-Jul-2000
089	9000	88112	1	Chromium PM <sub>2.5</sub> Lc	Cabinet Mountains	Sanders	26-Jul-2000
089	9000	88114	1	Copper PM <sub>2.5</sub> Lc	Cabinet Mountains	Sanders	26-Jul-2000
089	9000	88115	1	Chlorine PM <sub>2.5</sub> Lc	Cabinet Mountains	Sanders	26-Jul-2000
089	9000	88126	1	Iron PM <sub>2.5</sub> Lc	Cabinet Mountains	Sanders	26-Jul-2000
089	9000	88128	1	Lead PM <sub>2.5</sub> Lc	Cabinet Mountains	Sanders	26-Jul-2000
089	9000	88132	1	Manganese PM <sub>2.5</sub> Lc	Cabinet Mountains	Sanders	26-Jul-2000
089	9000	88136	1	Nickel PM <sub>2.5</sub> Lc	Cabinet Mountains	Sanders	26-Jul-2000
089	9000	88140	1	Magnesium PM <sub>2.5</sub> Lc	Cabinet Mountains	Sanders	26-Jul-2000
089	9000	88152	1	Phosphorus PM <sub>2.5</sub> Lc	Cabinet Mountains	Sanders	26-Jul-2000
089	9000	88154	1	Selenium PM <sub>2.5</sub> Lc	Cabinet Mountains	Sanders	26-Jul-2000
089	9000	88161	1	Titanium PM <sub>2.5</sub> Lc	Cabinet Mountains	Sanders	26-Jul-2000
089	9000	88164	1	Vanadium PM <sub>2.5</sub> Lc	Cabinet Mountains	Sanders	26-Jul-2000
089	9000	88165	1	Silicon PM <sub>2.5</sub> Lc	Cabinet Mountains	Sanders	26-Jul-2000
089	9000	88167	1	Zinc PM <sub>2.5</sub> Lc	Cabinet Mountains	Sanders	26-Jul-2000
089	9000	88168	1	Strontium PM <sub>2.5</sub> Lc	Cabinet Mountains	Sanders	26-Jul-2000
089	9000	88169	1	Sulfur PM <sub>2.5</sub> Lc	Cabinet Mountains	Sanders	26-Jul-2000
089	9000	88176	1	Rubidium PM <sub>2.5</sub> Lc	Cabinet Mountains	Sanders	26-Jul-2000
089	9000	88180	1	Potassium PM <sub>2.5</sub> Lc	Cabinet Mountains	Sanders	26-Jul-2000
089	9000	88184	1	Sodium PM <sub>2.5</sub> Lc	Cabinet Mountains	Sanders	26-Jul-2000
089	9000	88185	1	Zirconium PM <sub>2.5</sub> Lc	Cabinet Mountains	Sanders	26-Jul-2000
089	9000	88203	1	Chloride PM <sub>2.5</sub> Lc	Cabinet Mountains	Sanders	26-Jul-2000
089	9000	88301	1	Ammonium Ion PM <sub>2.5</sub> Lc	Cabinet Mountains	Sanders	26-Jul-2000
089	9000	88306	1	Total Nitrate PM <sub>2.5</sub> Lc	Cabinet Mountains	Sanders	26-Jul-2000
089	9000	88307	1	Ec Csn PM <sub>2.5</sub> LC	Cabinet Mountains	Sanders	26-Jul-2000
089	9000	88320	1	Oc PM <sub>2.5</sub> Lc Tor	Cabinet Mountains	Sanders	26-Jul-2000

089	9000	88321	1	Ec PM <sub>2.5</sub> Lc Tor	Cabinet Mountains	Sanders	01-Jan-2005	
089	9000	88328	1	Op PM <sub>2.5</sub> Lc Tor	Cabinet Mountains	Sanders	01-Jan-2005	
089	9000	88329	1	Ec1 PM <sub>2.5</sub> Lc	Cabinet Mountains	Sanders	26-Jul-2000	
089	9000	88330	1	Ec2 PM <sub>2.5</sub> Lc	Cabinet Mountains	Sanders	26-Jul-2000	
089	9000	88331	1	Ec3 PM <sub>2.5</sub> Lc	Cabinet Mountains	Sanders	26-Jul-2000	
089	9000	88332	1	Oc1 Csn Unadj PM <sub>2.5</sub> LC	Cabinet Mountains	Sanders	26-Jul-2000	
089	9000	88333	1	Oc2 Csn Unadj PM <sub>2.5</sub> LC	Cabinet Mountains	Sanders	26-Jul-2000	
089	9000	88334	1	Oc3 Csn Unadj PM <sub>2.5</sub> LC	Cabinet Mountains	Sanders	26-Jul-2000	
089	9000	88335	1	Oc4 Csn Unadj PM <sub>2.5</sub> LC	Cabinet Mountains	Sanders	26-Jul-2000	
089	9000	88336	1	Op Csn PM <sub>2.5</sub> LC	Cabinet Mountains	Sanders	26-Jul-2000	
089	9000	88337	1	Hydrogen PM <sub>2.5</sub> Lc	Cabinet Mountains	Sanders	26-Jul-2000	
089	9000	88338	1	Nitrite PM <sub>2.5</sub> Lc	Cabinet Mountains	Sanders	26-Jul-2000	
089	9000	88339	1	NH4NO3 PM <sub>2.5</sub> Lc	Cabinet Mountains	Sanders	26-Jul-2000	
089	9000	88340	1	NH4NO3 Extinct.PM <sub>2.5</sub> Lc	Cabinet Mountains	Sanders	26-Jul-2000	
089	9000	88341	1	Aerosol Extinct.PM <sub>2.5</sub> Lc	Cabinet Mountains	Sanders	26-Jul-2000	
089	9000	88342	1	Coar. Mass Extinct.PM25 Lc	Cabinet Mountains	Sanders	26-Jul-2000	
089	9000	88343	1	EC Extinct.PM <sub>2.5</sub> Lc	Cabinet Mountains	Sanders	26-Jul-2000	
089	9000	88344	1	NH4NO3 PM <sub>2.5</sub> Lc	Cabinet Mountains	Sanders	26-Jul-2000	
089	9000	88345	1	NH4NO3 Extinct. PM <sub>2.5</sub> Lc	Cabinet Mountains	Sanders	26-Jul-2000	
089	9000	88346	1	OC Extinct.PM <sub>2.5</sub> Lc	Cabinet Mountains	Sanders	26-Jul-2000	
089	9000	88348	1	Soil PM <sub>2.5</sub> Lc	Cabinet Mountains	Sanders	26-Jul-2000	
089	9000	88349	1	Soil Extinct.PM <sub>2.5</sub> Lc	Cabinet Mountains	Sanders	26-Jul-2000	
089	9000	88350	1	OC Mass PM <sub>2.5</sub> Lc	Cabinet Mountains	Sanders	26-Jul-2000	
089	9000	88395	1	Sea Salt (PM <sub>2.5</sub> )	Cabinet Mountains	Sanders	01-Jan-2007	
089	9000	88401	1	Reconstruct.Mass PM <sub>2.5</sub> Lc	Cabinet Mountains	Sanders	26-Jul-2000	
089	9000	88403	1	Sulfate PM <sub>2.5</sub> Lc	Cabinet Mountains	Sanders	26-Jul-2000	
089	9000	88502	1	Accpt.PM25 AQI Spec.Mass	Cabinet Mountains	Sanders	26-Jul-2000	
091	0001	42410	1	Sulfation Rate	BOX 506 POPLAR MT 59255	Sheridan	01-Jan-1983	31-Dec-1985
091	9000	11208	1	Deciview	Medicine Lake	Sheridan	18-Dec-1999	
091	9000	11208	2	Deciview	Medicine Lake	Sheridan	03-Sep-2003	
091	9000	42401	1	Sulfur Dioxide	Medicine Lake	Sheridan	15-Dec-1999	
091	9000	42401	2	Sulfur Dioxide	Medicine Lake	Sheridan	03-Sep-2003	
091	9000	62201	1	Relative Humidity	Medicine Lake	Sheridan	15-Dec-1999	

001	0000	62202	1	Polotivo Humidity Footor	Madiaina Laka	Sharidan	15 Dec 1000
091	9000	02202	1			Ohamidan	10-Dec-1999
091	9000	63102	1			Sheridan	18-Dec-1999
091	9000	63102	2	Light Absorption Coefficient		Sheridan	01-Jan-2005
091	9000	81103	1	Pm 10 <sub>2.5</sub> Stp	Medicine Lake	Sheridan	01-Jan-2005
091	9000	84203	1	Chloride PM <sub>2.5</sub> Stp	Medicine Lake	Sheridan	15-Dec-1999
091	9000	84306	2	Nitrate PM <sub>2.5</sub> Stp	Medicine Lake	Sheridan	01-Jan-2006
091	9000	84306	1	Nitrate PM <sub>2.5</sub> Stp	Medicine Lake	Sheridan	01-Jan-2006
091	9000	85101	2	PM <sub>10</sub> - Lc	Medicine Lake	Sheridan	03-Sep-2003
091	9000	85101	1	PM <sub>10</sub> - Lc	Medicine Lake	Sheridan	15-Dec-1999
091	9000	86502	2	Acceptable PM <sub>102.5</sub> LC	Medicine Lake	Sheridan	01-Jan-2006
091	9000	86502	1	Acceptable PM <sub>102.5</sub> LC	Medicine Lake	Sheridan	18-Dec-1999
091	9000	88103	1	Arsenic PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	15-Dec-1999
091	9000	88103	2	Arsenic PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	03-Sep-2003
091	9000	88104	2	Aluminum PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	03-Sep-2003
091	9000	88104	1	Aluminum PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	15-Dec-1999
091	9000	88109	1	Bromine PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	15-Dec-1999
091	9000	88109	2	Bromine PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	03-Sep-2003
091	9000	88111	2	Calcium PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	03-Sep-2003
091	9000	88111	1	Calcium PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	15-Dec-1999
091	9000	88112	1	Chromium PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	15-Dec-1999
091	9000	88112	2	Chromium PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	03-Sep-2003
091	9000	88114	2	Copper PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	03-Sep-2003
091	9000	88114	1	Copper PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	15-Dec-1999
091	9000	88115	2	Chlorine PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	03-Sep-2003
091	9000	88115	1	Chlorine PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	15-Dec-1999
091	9000	88126	1	Iron PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	15-Dec-1999
091	9000	88126	2	Iron PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	03-Sep-2003
091	9000	88128	1	Lead PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	15-Dec-1999
091	9000	88128	2	Lead PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	03-Sep-2003
091	9000	88132	2	Manganese PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	03-Sep-2003
091	9000	88132	1	Manganese PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	15-Dec-1999
091	9000	88134	1	Molybdenum PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	15-Dec-1999
091	9000	88136	2	Nickel PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	03-Sep-2003

091	9000	88136	1	Nickel PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	15-Dec-1999
091	9000	88140	1	Magnesium PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	15-Dec-1999
091	9000	88140	2	Magnesium PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	03-Sep-2003
091	9000	88152	1	Phosphorus PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	15-Dec-1999
091	9000	88152	2	Phosphorus PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	03-Sep-2003
091	9000	88154	2	Selenium PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	03-Sep-2003
091	9000	88154	1	Selenium PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	15-Dec-1999
091	9000	88161	2	Titanium PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	03-Sep-2003
091	9000	88161	1	Titanium PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	15-Dec-1999
091	9000	88164	1	Vanadium PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	15-Dec-1999
091	9000	88164	2	Vanadium PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	03-Sep-2003
091	9000	88165	2	Silicon PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	03-Sep-2003
091	9000	88165	1	Silicon PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	15-Dec-1999
091	9000	88167	2	Zinc PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	03-Sep-2003
091	9000	88167	1	Zinc PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	15-Dec-1999
091	9000	88168	2	Strontium PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	03-Sep-2003
091	9000	88168	1	Strontium PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	15-Dec-1999
091	9000	88169	1	Sulfur PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	15-Dec-1999
091	9000	88169	2	Sulfur PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	03-Sep-2003
091	9000	88176	2	Rubidium PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	03-Sep-2003
091	9000	88176	1	Rubidium PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	15-Dec-1999
091	9000	88180	2	Potassium PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	03-Sep-2003
091	9000	88180	1	Potassium PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	15-Dec-1999
091	9000	88184	1	Sodium PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	15-Dec-1999
091	9000	88184	2	Sodium PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	03-Sep-2003
091	9000	88185	1	Zirconium PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	15-Dec-1999
091	9000	88185	2	Zirconium PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	03-Sep-2003
091	9000	88203	2	Chloride PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	03-Sep-2003
091	9000	88203	1	Chloride PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	15-Dec-1999
091	9000	88301	1	Ammonium Ion PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	15-Dec-1999
091	9000	88301	2	Ammonium Ion PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	03-Sep-2003
091	9000	88306	1	Total Nitrate PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	15-Dec-1999
091	9000	88306	2	Total Nitrate PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	03-Sep-2003

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091	9000	88307	1	Ec Csn PM <sub>2.5</sub> LC	Medicine Lake	Sheridan	18-Dec-1999	
091	9000	88320	1	Oc PM <sub>2.5</sub> Lc Tor	Medicine Lake	Sheridan	18-Dec-1999	
091	9000	88320	2	Oc PM <sub>2.5</sub> Lc Tor	Medicine Lake	Sheridan	01-Jan-2006	
091	9000	88321	1	Ec PM <sub>2.5</sub> Lc Tor	Medicine Lake	Sheridan	01-Jan-2005	
091	9000	88321	2	Ec PM <sub>2.5</sub> Lc Tor	Medicine Lake	Sheridan	01-Jan-2006	
091	9000	88328	1	Op PM <sub>2.5</sub> Lc Tor	Medicine Lake	Sheridan	01-Jan-2005	
091	9000	88328	2	Op PM <sub>2.5</sub> Lc Tor	Medicine Lake	Sheridan	01-Jan-2005	
091	9000	88329	2	Ec1 PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	03-Sep-2003	
091	9000	88329	1	Ec1 PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	15-Dec-1999	
091	9000	88330	2	Ec2 PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	03-Sep-2003	
091	9000	88330	1	Ec2 PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	15-Dec-1999	
091	9000	88331	2	Ec3 PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	03-Sep-2003	
091	9000	88331	1	Ec3 PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	15-Dec-1999	
091	9000	88332	1	Oc1 Csn Unadj PM <sub>2.5</sub> LC	Medicine Lake	Sheridan	15-Dec-1999	
091	9000	88332	2	Oc1 Csn Unadj PM <sub>2.5</sub> LC	Medicine Lake	Sheridan	03-Sep-2003	
091	9000	88333	1	Oc2 Csn Unadj PM <sub>2.5</sub> LC	Medicine Lake	Sheridan	15-Dec-1999	
091	9000	88333	2	Oc2 Csn Unadj PM <sub>2.5</sub> LC	Medicine Lake	Sheridan	03-Sep-2003	
091	9000	88334	1	Oc3 Csn Unadj PM <sub>2.5</sub> LC	Medicine Lake	Sheridan	15-Dec-1999	
091	9000	88334	2	Oc3 Csn Unadj PM <sub>2.5</sub> LC	Medicine Lake	Sheridan	03-Sep-2003	
091	9000	88335	1	Oc4 Csn Unadj PM <sub>2.5</sub> LC	Medicine Lake	Sheridan	15-Dec-1999	
091	9000	88335	2	Oc4 Csn Unadj PM <sub>2.5</sub> LC	Medicine Lake	Sheridan	03-Sep-2003	
091	9000	88336	2	Op Csn PM <sub>2.5</sub> LC	Medicine Lake	Sheridan	03-Sep-2003	
091	9000	88336	1	Op Csn PM <sub>2.5</sub> LC	Medicine Lake	Sheridan	15-Dec-1999	
091	9000	88337	2	Hydrogen PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	03-Sep-2003	
091	9000	88337	1	Hydrogen PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	15-Dec-1999	
091	9000	88338	1	Nitrite PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	15-Dec-1999	
091	9000	88338	2	Nitrite PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	03-Sep-2003	
091	9000	88339	1	NH4NO3 PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	18-Dec-1999	
091	9000	88339	2	NH4NO3 PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	01-Jan-2006	
091	9000	88340	1	NH4NO3 Extinct.PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	18-Dec-1999	
091	9000	88341	1	Aerosol Extinct.PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	18-Dec-1999	
091	9000	88342	1	Coar. Mass Extinct.PM25 Lc	Medicine Lake	Sheridan	18-Dec-1999	
091	9000	88343	1	EC Extinct.PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	18-Dec-1999	

091	9000	88344	1	NH4NO3 PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	18-Dec-1999	
091	9000	88344	2	NH4NO3 PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	01-Jan-2006	
091	9000	88345	1	NH4NO3 Extinct. PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	18-Dec-1999	
091	9000	88346	1	OC Extinct.PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	18-Dec-1999	
091	9000	88348	1	Soil PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	18-Dec-1999	
091	9000	88348	2	Soil PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	01-Jan-2006	
091	9000	88349	1	Soil Extinct.PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	18-Dec-1999	
091	9000	88350	2	OC Mass PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	01-Jan-2007	
091	9000	88350	1	OC Mass PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	18-Dec-1999	
091	9000	88395	2	Sea Salt (PM <sub>2.5</sub> )	Medicine Lake	Sheridan	01-Jan-2007	
091	9000	88395	1	Sea Salt (PM <sub>2.5</sub> )	Medicine Lake	Sheridan	01-Jan-2007	
091	9000	88401	1	Reconstruct.Mass PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	18-Dec-1999	
091	9000	88403	1	Sulfate PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	15-Dec-1999	
091	9000	88403	2	Sulfate PM <sub>2.5</sub> Lc	Medicine Lake	Sheridan	03-Sep-2003	
091	9000	88502	1	Accpt.PM25 AQI Spec.Mass	Medicine Lake	Sheridan	15-Dec-1999	
091	9000	88502	2	Accpt.PM25 AQI Spec.Mass	Medicine Lake	Sheridan	03-Sep-2003	
093	0001	11101	1	Suspended Particulate (Tsp)	HARRISON AVE FIRE STATION #5	Silver Bow	01-Jan-1962	31-Dec-1972
093	0001	11103	1	Benzene Sol.Organics(TSP)	HARRISON AVE FIRE STATION #5	Silver Bow	01-Jan-1962	31-Dec-1971
093	0001	12103	1	Arsenic (Tsp) Stp	HARRISON AVE FIRE STATION #5	Silver Bow	01-Jan-1962	31-Dec-1972
093	0001	12110	1	Cadmium (Tsp) Stp	HARRISON AVE FIRE STATION #5	Silver Bow	01-Jan-1971	31-Dec-1972
093	0001	12128	1	Lead (Tsp) Stp	HARRISON AVE FIRE STATION #5	Silver Bow	01-Jan-1971	31-Dec-1972
093	0001	12167	1	Zinc (Tsp) Stp	HARRISON AVE FIRE STATION #5	Silver Bow	01-Jan-1971	31-Dec-1972
093	0001	12202	1	Fluoride (Tsp) Stp	HARRISON AVE FIRE STATION #5	Silver Bow	01-Jan-1962	31-Dec-1962
093	0001	12209	1	Fluoride (Paper Samplers)	HARRISON AVE FIRE STATION #5	Silver Bow	01-Jan-1962	31-Dec-1962
093	0001	12403	1	Sulfate (Tsp) Stp	HARRISON AVE FIRE STATION #5	Silver Bow	01-Jan-1971	31-Dec-1971
093	0002	11101	1	Suspended Particulate (Tsp)	WEBSTER-GARFIELD SCH MONT AVE & FRONT ST	Silver Bow	01-Jan-1971	31-Dec-1972
093	0002	11103	1	Benzene Sol.Organics(TSP)	WEBSTER-GARFIELD SCH MONT AVE & FRONT ST	Silver Bow	01-Jan-1971	31-Dec-1971
093	0002	12103	1	Arsenic (Tsp) Stp	WEBSTER-GARFIELD SCH MONT AVE & FRONT ST	Silver Bow	01-Jan-1971	31-Dec-1972
093	0002	12110	1	Cadmium (Tsp) Stp	WEBSTER-GARFIELD SCH MONT AVE & FRONT ST	Silver Bow	01-Jan-1971	31-Dec-1972
093	0002	12128	1	Lead (Tsp) Stp	WEBSTER-GARFIELD SCH MONT AVE & FRONT ST	Silver Bow	01-Jan-1971	31-Dec-1972
093	0002	12167	1	Zinc (Tsp) Stp	WEBSTER-GARFIELD SCH MONT AVE & FRONT ST	Silver Bow	01-Jan-1971	31-Dec-1972
093	0002	12202	1	Fluoride (Tsp) Stp	WEBSTER-GARFIELD SCH MONT AVE & FRONT ST	Silver Bow	01-Jan-1971	31-Dec-1971
093	0002	12209	1	Fluoride (Paper Samplers)	WEBSTER-GARFIELD SCH MONT AVE & FRONT ST	Silver Bow	01-Jan-1971	31-Dec-1971

093	0002	12403	1	Sulfate (Tsp) Stp	WEBSTER-GARFIELD SCH MONT AVE & FRONT ST	Silver Bow	01-Jan-1971	31-Dec-1971
093	0003	11101	1	Suspended Particulate (Tsp)	SILVER BOW GEN. HOSP. 3000 CONTINENTAL	Silver Bow	01-Jan-1971	31-Dec-1977
093	0003	11103	1	Benzene Sol.Organics(TSP)	SILVER BOW GEN. HOSP. 3000 CONTINENTAL	Silver Bow	01-Jan-1971	31-Dec-1977
093	0003	12103	1	Arsenic (Tsp) Stp	SILVER BOW GEN. HOSP. 3000 CONTINENTAL	Silver Bow	01-Jan-1971	31-Dec-1972
093	0003	12110	1	Cadmium (Tsp) Stp	SILVER BOW GEN. HOSP. 3000 CONTINENTAL	Silver Bow	01-Jan-1971	31-Dec-1972
093	0003	12128	1	Lead (Tsp) Stp	SILVER BOW GEN. HOSP. 3000 CONTINENTAL	Silver Bow	01-Jan-1971	31-Dec-1972
093	0003	12167	1	Zinc (Tsp) Stp	SILVER BOW GEN. HOSP. 3000 CONTINENTAL	Silver Bow	01-Jan-1971	31-Dec-1972
093	0003	12403	1	Sulfate (Tsp) Stp	SILVER BOW GEN. HOSP. 3000 CONTINENTAL	Silver Bow	01-Jan-1971	31-Dec-1971
093	0004	11101	1	Suspended Particulate (Tsp)	WHITTIER SCHOOL OTTAWA ST	Silver Bow	01-Jan-1971	31-Dec-1971
093	0004	11103	1	Benzene Sol.Organics(TSP)	WHITTIER SCHOOL OTTAWA ST	Silver Bow	01-Jan-1971	31-Dec-1971
093	0004	12103	1	Arsenic (Tsp) Stp	WHITTIER SCHOOL OTTAWA ST	Silver Bow	01-Jan-1971	31-Dec-1971
093	0004	12110	1	Cadmium (Tsp) Stp	WHITTIER SCHOOL OTTAWA ST	Silver Bow	01-Jan-1971	31-Dec-1971
093	0004	12128	1	Lead (Tsp) Stp	WHITTIER SCHOOL OTTAWA ST	Silver Bow	01-Jan-1971	31-Dec-1971
093	0004	12167	1	Zinc (Tsp) Stp	WHITTIER SCHOOL OTTAWA ST	Silver Bow	01-Jan-1971	31-Dec-1971
093	0004	12202	1	Fluoride (Tsp) Stp	WHITTIER SCHOOL OTTAWA ST	Silver Bow	01-Jan-1971	31-Dec-1971
093	0004	12209	1	Fluoride (Paper Samplers)	WHITTIER SCHOOL OTTAWA ST	Silver Bow	01-Jan-1971	31-Dec-1971
093	0004	12403	1	Sulfate (Tsp) Stp	WHITTIER SCHOOL OTTAWA ST	Silver Bow	01-Jan-1971	31-Dec-1971
093	0005	11101	1	Suspended Particulate (Tsp)	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	01-Jan-1971	31-Dec-1987
093	0005	11101	2	Suspended Particulate (Tsp)	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	01-Jan-1982	31-Dec-1984
093	0005	11103	1	Benzene Sol.Organics(TSP)	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	01-Jan-1971	31-Dec-1971
093	0005	11203	1	Light Scatter	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	06-Jul-1989	31-Mar-1993
093	0005	12101	1	Aluminum (Tsp) Stp	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	01-Jan-1978	31-Dec-1979
093	0005	12102	1	Antimony (Tsp) Stp	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	01-Jan-1978	31-Dec-1978
093	0005	12103	1	Arsenic (Tsp) Stp	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	01-Jan-1971	31-Dec-1983
093	0005	12110	1	Cadmium (Tsp) Stp	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	04-Feb-1971	31-Dec-1983
093	0005	12112	1	Chromium (Tsp) Stp	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	01-Jan-1978	31-Dec-1980
093	0005	12114	1	Copper (Tsp) Stp	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	01-Jan-1978	31-Dec-1983
093	0005	12126	1	Iron (Tsp) Stp	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	01-Jan-1978	31-Dec-1979
093	0005	12128	1	Lead (Tsp) Stp	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	01-Jan-1971	31-Dec-1983
093	0005	12132	1	Manganese (Tsp) Stp	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	01-Jan-1978	31-Dec-1980
093	0005	12136	1	Nickel (Tsp) Stp	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	01-Jan-1978	31-Dec-1980
093	0005	12164	1	Vanadium (Tsp) Stp	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	01-Jan-1978	31-Dec-1980
093	0005	12167	1	Zinc (Tsp) Stp	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	04-Feb-1971	31-Dec-1983

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093	0005	12202	1	Fluoride (Tsp) Stp	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	01-Jan-1971	31-Dec-1971
093	0005	12209	1	Fluoride (Paper Samplers)	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	01-Jan-1971	31-Dec-1971
093	0005	12306	1	Nitrate (Tsp) Stp	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	01-Jan-1976	31-Dec-1980
093	0005	12403	2	Sulfate (Tsp) Stp	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	01-Jan-1971	31-Dec-1978
093	0005	12403	3	Sulfate (Tsp) Stp	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	01-Jan-1982	31-Dec-1982
093	0005	12403	1	Sulfate (Tsp) Stp	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	01-Jan-1976	31-Dec-1982
093	0005	68101	1	Sample Flow Rate- Cv	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	11-Feb-1999	01-Jan-2007
093	0005	68102	1	Sample Volume	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	11-Feb-1999	01-Jan-2007
093	0005	68103	5	Ambient Min Temperature	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	
093	0005	68103	1	Ambient Min Temperature	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	11-Feb-1999	01-Jan-2007
093	0005	68104	1	Ambient Max Temperature	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	11-Feb-1999	01-Jan-2007
093	0005	68104	5	Ambient Max Temperature	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	
093	0005	68105	5	Ambient Temperature	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	
093	0005	68105	1	Ambient Temperature	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	11-Feb-1999	
093	0005	68106	1	Sample Min Baro Pressure	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	11-Feb-1999	01-Jan-2007
093	0005	68106	5	Sample Min Baro Pressure	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	
093	0005	68107	1	Sample Max Baro Pressure	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	11-Feb-1999	01-Jan-2007
093	0005	68107	5	Sample Max Baro Pressure	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	
093	0005	68108	1	Sample Baro Pressure	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	11-Feb-1999	
093	0005	68108	5	Sample Baro Pressure	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	
093	0005	68109	1	Elapsed Sample Time	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	11-Feb-1999	01-Jan-2007
093	0005	81102	2	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	01-May-1987	18-Nov-1997
093	0005	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	01-Jan-1985	31-Dec-1987
093	0005	81102	4	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	03-Aug-1993	
093	0005	81102	3	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	07-Oct-1989	31-Dec-1990
093	0005	85101	1	PM10 - Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	01-Jan-2000	31-Dec-2008
093	0005	88101	1	PM <sub>2.5</sub> - Local Conditions	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	11-Feb-1999	
093	0005	88102	5	Antimony PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	
093	0005	88103	5	Arsenic PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	
093	0005	88104	5	Aluminum PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	
093	0005	88107	5	Barium PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	
093	0005	88109	5	Bromine PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	
093	0005	88110	5	Cadmium PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	

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093	0005	88111	5	Calcium PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	
093	0005	88112	5	Chromium PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	
093	0005	88113	5	Cobalt PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	
093	0005	88114	5	Copper PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	
093	0005	88115	5	Chlorine PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	
093	0005	88117	5	Cerium PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	
093	0005	88118	5	Cesium PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	
093	0005	88121	5	Europium PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	18-Feb-2009
093	0005	88124	5	Gallium PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	18-Feb-2009
093	0005	88126	5	Iron PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	
093	0005	88127	5	Hafnium PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	18-Feb-2009
093	0005	88128	5	Lead PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	
093	0005	88131	5	Indium PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	
093	0005	88132	5	Manganese PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	
093	0005	88133	5	Iridium PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	18-Feb-2009
093	0005	88134	5	Molybdenum PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	18-Feb-2009
093	0005	88136	5	Nickel PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	
093	0005	88140	5	Magnesium PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	
093	0005	88142	5	Mercury PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	18-Feb-2009
093	0005	88143	5	Gold PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	18-Feb-2009
093	0005	88146	5	Lanthanum PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	18-Feb-2009
093	0005	88147	5	Niobium PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	18-Feb-2009
093	0005	88152	5	Phosphorus PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	
093	0005	88154	5	Selenium PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	
093	0005	88160	5	Tin PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	
093	0005	88161	5	Titanium PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	
093	0005	88162	5	Samarium PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	18-Feb-2009
093	0005	88163	5	Scandium PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	18-Feb-2009
093	0005	88164	5	Vanadium PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	
093	0005	88165	5	Silicon PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	
093	0005	88166	5	Silver PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	
093	0005	88167	5	Zinc PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	
093	0005	88168	5	Strontium PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	

093	0005	88169	5	5 Sulfur PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	
093	0005	88170	5	Tantalum PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	18-Feb-2009
093	0005	88172	5	5 Terbium PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	18-Feb-2009
093	0005	88176	5	Rubidium PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	
093	0005	88180	5	Potassium PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	
093	0005	88183	5	5 Yttrium PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	18-Feb-2009
093	0005	88184	5	Sodium PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	
093	0005	88185	5	Zirconium PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	
093	0005	88186	5	Tungsten PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	18-Feb-2009
093	0005	88301	5	Ammonium Ion PM2.5 Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	
093	0005	88302	5	Sodium Ion PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	
093	0005	88303	5	Potassium Ion PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	
093	0005	88305	5	Oc Csn Unadj PM <sub>2.5</sub> LC	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	
093	0005	88306	5	5 Total Nitrate PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	
093	0005	88307	5	Ec Csn PM <sub>2.5</sub> LC	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	
093	0005	88332	5	Oc1 Csn Unadj PM <sub>2.5</sub> LC	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	
093	0005	88333	5	Oc2 Csn Unadj PM <sub>2.5</sub> LC	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	
093	0005	88334	5	Oc3 Csn Unadj PM <sub>2.5</sub> LC	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	
093	0005	88335	5	Oc4 Csn Unadj PM <sub>2.5</sub> LC	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	
093	0005	88336	5	Op Csn PM <sub>2.5</sub> LC	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	
093	0005	88355	5	Oc Csn Rev Un PM25 LC	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	04-Oct-2009	
093	0005	88357	5	Ec Csn Rev Un PM25 LC	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	04-Oct-2009	
093	0005	88370	5	Oc CsnRevUn PM25LC Tor	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	04-Oct-2009	
093	0005	88374	5	Oc1 Csn Rev Un PM25 LC	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	04-Oct-2009	
093	0005	88375	5	Oc2 Csn Rev Un PM25 LC	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	04-Oct-2009	
093	0005	88376	5	Oc3 Csn Rev Un PM25 LC	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	04-Oct-2009	
093	0005	88377	5	Oc4 Csn Rev Un PM25 LC	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	04-Oct-2009	
093	0005	88378	5	Op CsnRevUn PM25LC Tor	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	04-Oct-2009	
093	0005	88380	5	Ec CsnRevUn PM25LC Tor	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	04-Oct-2009	
093	0005	88383	5	Ec1 Csn Rev Un PM25 LC	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	04-Oct-2009	
093	0005	88384	5	Ec2 Csn Rev Un PM25 LC	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	04-Oct-2009	
093	0005	88385	5	Ec3 Csn Rev Un PM25 LC	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	04-Oct-2009	
093	0005	88388	5	Op Csn Rev Un PM25 LC	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	04-Oct-2009	

093	0005	88403	5 Sulfate PM <sub>2.5</sub> Lc	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	
093	0005	88502	5 Accpt.PM25 AQI Spec.Mass	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Oct-2008	
093	0005	88502	3 Accpt.PM25 AQI Spec.Mass	GREELEY SCHOOL, SILVER BOW BLVD	Silver Bow	21-Apr-2009	
093	0006	11101	1 Suspended Particulate (Tsp)	COURTHOUSE MONTANA & GRANIT	Silver Bow	01-Jan-1971	31-Dec-1972
093	0006	11103	1 Benzene Sol.Organics(TSP)	COURTHOUSE MONTANA & GRANIT	Silver Bow	01-Jan-1971	31-Dec-1971
093	0006	12103	1 Arsenic (Tsp) Stp	COURTHOUSE MONTANA & GRANIT	Silver Bow	01-Jan-1971	31-Dec-1972
093	0006	12110	1 Cadmium (Tsp) Stp	COURTHOUSE MONTANA & GRANIT	Silver Bow	01-Jan-1971	31-Dec-1972
093	0006	12128	1 Lead (Tsp) Stp	COURTHOUSE MONTANA & GRANIT	Silver Bow	01-Jan-1971	31-Dec-1972
093	0006	12167	1 Zinc (Tsp) Stp	COURTHOUSE MONTANA & GRANIT	Silver Bow	01-Jan-1971	31-Dec-1972
093	0006	12202	1 Fluoride (Tsp) Stp	COURTHOUSE MONTANA & GRANIT	Silver Bow	01-Jan-1971	31-Dec-1971
093	0006	12209	1 Fluoride (Paper Samplers)	COURTHOUSE MONTANA & GRANIT	Silver Bow	01-Jan-1971	31-Dec-1971
093	0006	12403	1 Sulfate (Tsp) Stp	COURTHOUSE MONTANA & GRANIT	Silver Bow	01-Jan-1971	31-Dec-1971
093	0007	11101	1 Suspended Particulate (Tsp)	EMERSON SCHOOL MARSHA & PHILLIPS	Silver Bow	01-Jan-1971	31-Dec-1971
093	0007	11103	1 Benzene Sol.Organics(TSP)	EMERSON SCHOOL MARSHA & PHILLIPS	Silver Bow	01-Jan-1971	31-Dec-1971
093	0007	12103	1 Arsenic (Tsp) Stp	EMERSON SCHOOL MARSHA & PHILLIPS	Silver Bow	01-Jan-1971	31-Dec-1971
093	0007	12110	1 Cadmium (Tsp) Stp	EMERSON SCHOOL MARSHA & PHILLIPS	Silver Bow	01-Jan-1971	31-Dec-1971
093	0007	12128	1 Lead (Tsp) Stp	EMERSON SCHOOL MARSHA & PHILLIPS	Silver Bow	01-Jan-1971	31-Dec-1971
093	0007	12167	1 Zinc (Tsp) Stp	EMERSON SCHOOL MARSHA & PHILLIPS	Silver Bow	01-Jan-1971	31-Dec-1971
093	0007	12202	1 Fluoride (Tsp) Stp	EMERSON SCHOOL MARSHA & PHILLIPS	Silver Bow	01-Jan-1971	31-Dec-1971
093	0007	12209	1 Fluoride (Paper Samplers)	EMERSON SCHOOL MARSHA & PHILLIPS	Silver Bow	01-Jan-1971	31-Dec-1971
093	0007	12403	1 Sulfate (Tsp) Stp	EMERSON SCHOOL MARSHA & PHILLIPS	Silver Bow	01-Jan-1971	31-Dec-1971
093	8000	81102	1 PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	BUTTE-GREENHOUSE, SW corner FLORAL/MEADE	Silver Bow	01-Jan-1991	30-Jun-1992
093	0009	88502	3 Accpt.PM25 AQI Spec.Mass	25 West Front St, Butte	Silver Bow	07-Nov-2007	16-Apr-2009
093	0010	11101	1 Suspended Particulate (Tsp)	2201 COTTONWOOD DRIVE	Silver Bow	01-Jan-1972	31-Dec-1972
093	0010	12103	1 Arsenic (Tsp) Stp	2201 COTTONWOOD DRIVE	Silver Bow	01-Jan-1972	31-Dec-1972
093	0010	12110	1 Cadmium (Tsp) Stp	2201 COTTONWOOD DRIVE	Silver Bow	01-Jan-1972	31-Dec-1972
093	0010	12128	1 Lead (Tsp) Stp	2201 COTTONWOOD DRIVE	Silver Bow	01-Jan-1972	31-Dec-1972
093	0010	12167	1 Zinc (Tsp) Stp	2201 COTTONWOOD DRIVE	Silver Bow	01-Jan-1972	31-Dec-1972
093	0011	11101	1 Suspended Particulate (Tsp)	ATKINS RES 139 MISSOULA AVE	Silver Bow	01-Jan-1973	31-Dec-1980
093	0011	12101	1 Aluminum (Tsp) Stp	ATKINS RES 139 MISSOULA AVE	Silver Bow	01-Jan-1978	31-Dec-1978
093	0011	12103	1 Arsenic (Tsp) Stp	ATKINS RES 139 MISSOULA AVE	Silver Bow	01-Jan-1978	31-Dec-1978
093	0011	12110	1 Cadmium (Tsp) Stp	ATKINS RES 139 MISSOULA AVE	Silver Bow	01-Jan-1978	31-Dec-1978
093	0011	12114	1 Copper (Tsp) Stp	ATKINS RES 139 MISSOULA AVE	Silver Bow	01-Jan-1978	31-Dec-1978

093	0011	12126	1	Iron (Tsp) Stp	ATKINS RES 139 MISSOULA AVE	Silver Bow	01-Jan-1978	31-Dec-1978
093	0011	12128	1	Lead (Tsp) Stp	ATKINS RES 139 MISSOULA AVE	Silver Bow	01-Jan-1978	31-Dec-1978
093	0011	12167	1	Zinc (Tsp) Stp	ATKINS RES 139 MISSOULA AVE	Silver Bow	01-Jan-1978	31-Dec-1978
093	0012	11101	1	Suspended Particulate (Tsp)	HARRISON SCHOOL	Silver Bow	01-Jan-1974	31-Dec-1974
093	0013	11101	1	Suspended Particulate (Tsp)	HILLCREST	Silver Bow	01-Jan-1974	31-Dec-1975
093	0014	11101	1	Suspended Particulate (Tsp)	RICHER RESIDENCE	Silver Bow	01-Jan-1975	31-Dec-1979
093	0014	12101	1	Aluminum (Tsp) Stp	RICHER RESIDENCE	Silver Bow	01-Jan-1978	31-Dec-1978
093	0014	12103	1	Arsenic (Tsp) Stp	RICHER RESIDENCE	Silver Bow	01-Jan-1978	31-Dec-1979
093	0014	12110	1	Cadmium (Tsp) Stp	RICHER RESIDENCE	Silver Bow	01-Jan-1978	31-Dec-1979
093	0014	12112	1	Chromium (Tsp) Stp	RICHER RESIDENCE	Silver Bow	01-Jan-1978	31-Dec-1979
093	0014	12114	1	Copper (Tsp) Stp	RICHER RESIDENCE	Silver Bow	01-Jan-1978	31-Dec-1979
093	0014	12126	1	Iron (Tsp) Stp	RICHER RESIDENCE	Silver Bow	01-Jan-1978	31-Dec-1978
093	0014	12128	1	Lead (Tsp) Stp	RICHER RESIDENCE	Silver Bow	01-Jan-1978	31-Dec-1979
093	0014	12132	1	Manganese (Tsp) Stp	RICHER RESIDENCE	Silver Bow	01-Jan-1978	31-Dec-1979
093	0014	12136	1	Nickel (Tsp) Stp	RICHER RESIDENCE	Silver Bow	01-Jan-1978	31-Dec-1979
093	0014	12164	1	Vanadium (Tsp) Stp	RICHER RESIDENCE	Silver Bow	01-Jan-1978	31-Dec-1979
093	0014	12167	1	Zinc (Tsp) Stp	RICHER RESIDENCE	Silver Bow	01-Jan-1978	31-Dec-1978
093	0014	12306	1	Nitrate (Tsp) Stp	RICHER RESIDENCE	Silver Bow	01-Jan-1978	31-Dec-1979
093	0014	12403	1	Sulfate (Tsp) Stp	RICHER RESIDENCE	Silver Bow	01-Jan-1978	31-Dec-1979
093	0014	12403	2	Sulfate (Tsp) Stp	RICHER RESIDENCE	Silver Bow	01-Jan-1978	31-Dec-1978
093	0015	42101	1	Carbon Monoxide	ALPINE WEST,1 BLK E PINE & STUART,BUTTE	Silver Bow	01-Jan-1977	31-Dec-1979
093	0015	42602	1	Nitrogen Dioxide	ALPINE WEST,1 BLK E PINE & STUART,BUTTE	Silver Bow	01-Jan-1977	31-Dec-1977
093	0015	42602	2	Nitrogen Dioxide	ALPINE WEST,1 BLK E PINE & STUART,BUTTE	Silver Bow	01-Jan-1977	31-Dec-1977
093	0015	44201	1	Ozone	ALPINE WEST,1 BLK E PINE & STUART,BUTTE	Silver Bow	01-Jan-1977	31-Dec-1977
093	0016	11101	1	Suspended Particulate (Tsp)	GILMAN CONSTRUCTION, Continental Dr, Butte	Silver Bow	01-Jan-1977	31-Dec-1978
093	0016	12101	1	Aluminum (Tsp) Stp	GILMAN CONSTRUCTION, Continental Dr, Butte	Silver Bow	01-Jan-1978	31-Dec-1978
093	0016	12103	1	Arsenic (Tsp) Stp	GILMAN CONSTRUCTION, Continental Dr, Butte	Silver Bow	01-Jan-1978	31-Dec-1978
093	0016	12110	1	Cadmium (Tsp) Stp	GILMAN CONSTRUCTION, Continental Dr, Butte	Silver Bow	01-Jan-1978	31-Dec-1978
093	0016	12114	1	Copper (Tsp) Stp	GILMAN CONSTRUCTION, Continental Dr, Butte	Silver Bow	01-Jan-1978	31-Dec-1978
093	0016	12126	1	Iron (Tsp) Stp	GILMAN CONSTRUCTION, Continental Dr, Butte	Silver Bow	01-Jan-1978	31-Dec-1978
093	0016	12128	1	Lead (Tsp) Stp	GILMAN CONSTRUCTION, Continental Dr, Butte	Silver Bow	01-Jan-1978	31-Dec-1978
093	0016	12167	1	Zinc (Tsp) Stp	GILMAN CONSTRUCTION, Continental Dr, Butte	Silver Bow	01-Jan-1978	31-Dec-1978
093	0017	11101	1	Suspended Particulate (Tsp)	HEBGEN PARK #1	Silver Bow	01-Jan-1978	31-Dec-1983

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093	0017	12101	1	Aluminum (Tsp) Stp	HEBGEN PARK #1	Silver Bow	01-Jan-1978	31-Dec-1979
093	0017	12103	1	Arsenic (Tsp) Stp	HEBGEN PARK #1	Silver Bow	01-Jan-1978	31-Dec-1979
093	0017	12110	1	Cadmium (Tsp) Stp	HEBGEN PARK #1	Silver Bow	01-Jan-1978	31-Dec-1979
093	0017	12112	1	Chromium (Tsp) Stp	HEBGEN PARK #1	Silver Bow	01-Jan-1978	31-Dec-1979
093	0017	12114	1	Copper (Tsp) Stp	HEBGEN PARK #1	Silver Bow	01-Jan-1978	31-Dec-1979
093	0017	12126	1	Iron (Tsp) Stp	HEBGEN PARK #1	Silver Bow	01-Jan-1978	31-Dec-1979
093	0017	12128	1	Lead (Tsp) Stp	HEBGEN PARK #1	Silver Bow	01-Jan-1978	31-Dec-1979
093	0017	12132	1	Manganese (Tsp) Stp	HEBGEN PARK #1	Silver Bow	01-Jan-1978	31-Dec-1979
093	0017	12136	1	Nickel (Tsp) Stp	HEBGEN PARK #1	Silver Bow	01-Jan-1978	31-Dec-1979
093	0017	12164	1	Vanadium (Tsp) Stp	HEBGEN PARK #1	Silver Bow	01-Jan-1978	31-Dec-1979
093	0017	12167	1	Zinc (Tsp) Stp	HEBGEN PARK #1	Silver Bow	01-Jan-1978	31-Dec-1979
093	0017	12306	1	Nitrate (Tsp) Stp	HEBGEN PARK #1	Silver Bow	01-Jan-1978	31-Dec-1979
093	0017	12403	1	Sulfate (Tsp) Stp	HEBGEN PARK #1	Silver Bow	01-Jan-1978	31-Dec-1979
093	0017	12403	2	Sulfate (Tsp) Stp	HEBGEN PARK #1	Silver Bow	01-Jan-1978	31-Dec-1978
093	0018	11101	1	Suspended Particulate (Tsp)	HEBGEN PARK #2	Silver Bow	01-Jan-1978	31-Dec-1983
093	0018	11203	1	Light Scatter	HEBGEN PARK #2	Silver Bow	01-Jan-1978	31-Dec-1980
093	0018	12101	1	Aluminum (Tsp) Stp	HEBGEN PARK #2	Silver Bow	01-Jan-1978	31-Dec-1979
093	0018	12103	1	Arsenic (Tsp) Stp	HEBGEN PARK #2	Silver Bow	01-Jan-1978	31-Dec-1980
093	0018	12110	1	Cadmium (Tsp) Stp	HEBGEN PARK #2	Silver Bow	01-Jan-1978	31-Dec-1980
093	0018	12112	1	Chromium (Tsp) Stp	HEBGEN PARK #2	Silver Bow	01-Jan-1978	31-Dec-1980
093	0018	12114	1	Copper (Tsp) Stp	HEBGEN PARK #2	Silver Bow	01-Jan-1978	31-Dec-1980
093	0018	12126	1	Iron (Tsp) Stp	HEBGEN PARK #2	Silver Bow	01-Jan-1978	31-Dec-1979
093	0018	12128	1	Lead (Tsp) Stp	HEBGEN PARK #2	Silver Bow	01-Jan-1978	31-Dec-1980
093	0018	12132	1	Manganese (Tsp) Stp	HEBGEN PARK #2	Silver Bow	01-Jan-1978	31-Dec-1980
093	0018	12136	1	Nickel (Tsp) Stp	HEBGEN PARK #2	Silver Bow	01-Jan-1978	31-Dec-1980
093	0018	12164	1	Vanadium (Tsp) Stp	HEBGEN PARK #2	Silver Bow	01-Jan-1979	31-Dec-1980
093	0018	12167	1	Zinc (Tsp) Stp	HEBGEN PARK #2	Silver Bow	01-Jan-1978	31-Dec-1979
093	0018	12306	1	Nitrate (Tsp) Stp	HEBGEN PARK #2	Silver Bow	01-Jan-1978	31-Dec-1980
093	0018	12403	2	Sulfate (Tsp) Stp	HEBGEN PARK #2	Silver Bow	01-Jan-1978	31-Dec-1978
093	0018	12403	1	Sulfate (Tsp) Stp	HEBGEN PARK #2	Silver Bow	01-Jan-1978	31-Dec-1982
093	0018	42101	1	Carbon Monoxide	HEBGEN PARK #2	Silver Bow	01-Jan-1978	31-Dec-1979
093	0018	42401	1	Sulfur Dioxide	HEBGEN PARK #2	Silver Bow	01-Jan-1978	31-Dec-1979
093	0018	42601	1	Nitric Oxide	HEBGEN PARK #2	Silver Bow	01-Jan-1980	31-Dec-1981

093	0018	42602	1	Nitrogen Dioxide	HEBGEN PARK #2	Silver Bow	01-Jan-1978	31-Dec-1981
093	0018	42603	1	Oxides Of Nitrogen	HEBGEN PARK #2	Silver Bow	01-Jan-1980	31-Dec-1981
093	0018	43101	1	Total Hydrocarbons	HEBGEN PARK #2	Silver Bow	01-Jan-1978	31-Dec-1978
093	0018	43201	1	Methane	HEBGEN PARK #2	Silver Bow	01-Jan-1978	31-Dec-1978
093	0018	44201	1	Ozone	HEBGEN PARK #2	Silver Bow	01-Jan-1978	31-Dec-1981
093	0018	61101	1	Wind Speed	HEBGEN PARK #2	Silver Bow	01-Jan-1978	31-Dec-1981
093	0018	61102	1	Wind Direction	HEBGEN PARK #2	Silver Bow	01-Jan-1978	31-Dec-1981
093	0019	11101	1	Suspended Particulate (Tsp)	DR CANTY RESIDENCE,225 S CLARK, BUTTE	Silver Bow	01-Jan-1978	31-Dec-1983
093	0019	12101	1	Aluminum (Tsp) Stp	DR CANTY RESIDENCE,225 S CLARK, BUTTE	Silver Bow	01-Jan-1978	31-Dec-1979
093	0019	12103	1	Arsenic (Tsp) Stp	DR CANTY RESIDENCE,225 S CLARK, BUTTE	Silver Bow	01-Jan-1978	31-Dec-1980
093	0019	12110	1	Cadmium (Tsp) Stp	DR CANTY RESIDENCE,225 S CLARK, BUTTE	Silver Bow	01-Jan-1978	31-Dec-1980
093	0019	12112	1	Chromium (Tsp) Stp	DR CANTY RESIDENCE,225 S CLARK, BUTTE	Silver Bow	01-Jan-1978	31-Dec-1980
093	0019	12114	1	Copper (Tsp) Stp	DR CANTY RESIDENCE,225 S CLARK, BUTTE	Silver Bow	01-Jan-1978	31-Dec-1980
093	0019	12126	1	Iron (Tsp) Stp	DR CANTY RESIDENCE,225 S CLARK, BUTTE	Silver Bow	01-Jan-1978	31-Dec-1979
093	0019	12128	1	Lead (Tsp) Stp	DR CANTY RESIDENCE,225 S CLARK, BUTTE	Silver Bow	01-Jan-1978	31-Dec-1980
093	0019	12132	1	Manganese (Tsp) Stp	DR CANTY RESIDENCE,225 S CLARK, BUTTE	Silver Bow	01-Jan-1978	31-Dec-1980
093	0019	12136	1	Nickel (Tsp) Stp	DR CANTY RESIDENCE,225 S CLARK, BUTTE	Silver Bow	01-Jan-1978	31-Dec-1980
093	0019	12164	1	Vanadium (Tsp) Stp	DR CANTY RESIDENCE,225 S CLARK, BUTTE	Silver Bow	01-Jan-1979	31-Dec-1980
093	0019	12167	1	Zinc (Tsp) Stp	DR CANTY RESIDENCE,225 S CLARK, BUTTE	Silver Bow	01-Jan-1978	31-Dec-1979
093	0019	12306	1	Nitrate (Tsp) Stp	DR CANTY RESIDENCE,225 S CLARK, BUTTE	Silver Bow	01-Jan-1978	31-Dec-1980
093	0019	12403	1	Sulfate (Tsp) Stp	DR CANTY RESIDENCE,225 S CLARK, BUTTE	Silver Bow	01-Jan-1978	31-Dec-1982
093	0019	12403	2	Sulfate (Tsp) Stp	DR CANTY RESIDENCE,225 S CLARK, BUTTE	Silver Bow	01-Jan-1978	31-Dec-1978
093	0020	11101	1	Suspended Particulate (Tsp)	FLORAL PARK	Silver Bow	01-Jan-1978	31-Dec-1983
093	0020	12101	1	Aluminum (Tsp) Stp	FLORAL PARK	Silver Bow	01-Jan-1978	31-Dec-1979
093	0020	12103	1	Arsenic (Tsp) Stp	FLORAL PARK	Silver Bow	01-Jan-1978	31-Dec-1980
093	0020	12110	1	Cadmium (Tsp) Stp	FLORAL PARK	Silver Bow	01-Jan-1978	31-Dec-1980
093	0020	12112	1	Chromium (Tsp) Stp	FLORAL PARK	Silver Bow	01-Jan-1979	31-Dec-1980
093	0020	12114	1	Copper (Tsp) Stp	FLORAL PARK	Silver Bow	01-Jan-1978	31-Dec-1980
093	0020	12126	1	Iron (Tsp) Stp	FLORAL PARK	Silver Bow	01-Jan-1978	31-Dec-1979
093	0020	12128	1	Lead (Tsp) Stp	FLORAL PARK	Silver Bow	01-Jan-1978	31-Dec-1980
093	0020	12132	1	Manganese (Tsp) Stp	FLORAL PARK	Silver Bow	01-Jan-1978	31-Dec-1980
093	0020	12136	1	Nickel (Tsp) Stp	FLORAL PARK	Silver Bow	01-Jan-1979	31-Dec-1980
093	0020	12164	1	Vanadium (Tsp) Stp	FLORAL PARK	Silver Bow	01-Jan-1979	31-Dec-1980

093	0020	12167	1	Zinc (Tsp) Stp	FLORAL PARK	Silver Bow	01-Jan-1978	31-Dec-1979
093	0020	12306	1	Nitrate (Tsp) Stp	FLORAL PARK	Silver Bow	01-Jan-1978	31-Dec-1980
093	0020	12403	1	Sulfate (Tsp) Stp	FLORAL PARK	Silver Bow	01-Jan-1978	31-Dec-1980
093	0022	11203	1	Light Scatter	CONTINENTAL DR & ALPINE, BUTTE	Silver Bow	29-Sep-1987	31-Dec-1988
093	0022	42101	1	Carbon Monoxide	CONTINENTAL DR & ALPINE, BUTTE	Silver Bow	29-Sep-1987	31-Dec-1988
093	0022	61101	1	Wind Speed	CONTINENTAL DR & ALPINE, BUTTE	Silver Bow	29-Sep-1987	31-Dec-1988
093	0022	61102	1	Wind Direction	CONTINENTAL DR & ALPINE, BUTTE	Silver Bow	29-Sep-1987	31-Dec-1988
093	0029	11101	1	Suspended Particulate (Tsp)	BLAINE SCHOOL,N.MAIN,WALKERVILLE	Silver Bow	01-Jan-1980	31-Dec-1982
093	0031	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	BEAL MOUNTAIN MINE-LITTLE GULCH #1	Silver Bow	11-Dec-1987	18-Sep-1988
093	0031	81102	2	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	BEAL MOUNTAIN MINE-LITTLE GULCH #1	Silver Bow	01-Jan-1988	31-Dec-1990
093	0032	11101	1	Suspended Particulate (Tsp)	BEAL MOUNTAIN MINE - WHITE PINE CR #2	Silver Bow	15-Apr-1988	06-Oct-1988
093	0032	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	BEAL MOUNTAIN MINE - WHITE PINE CR #2	Silver Bow	05-Dec-1987	30-Mar-1990
093	0033	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	BEAL MOUNTAIN MINE-BEEFSTRAIGHT CR #3	Silver Bow	05-Dec-1987	31-Dec-1997
093	0033	82102	1	Antimony PM <sub>10</sub> Stp	BEAL MOUNTAIN MINE-BEEFSTRAIGHT CR #3	Silver Bow	06-Jan-1991	31-Mar-1993
093	0033	82103	1	Arsenic PM <sub>10</sub> Stp	BEAL MOUNTAIN MINE-BEEFSTRAIGHT CR #3	Silver Bow	06-Jan-1991	31-Mar-1993
093	0033	82112	1	Chromium PM <sub>10</sub> Stp	BEAL MOUNTAIN MINE-BEEFSTRAIGHT CR #3	Silver Bow	06-Jan-1991	31-Mar-1993
093	0033	82128	1	Lead PM <sub>10</sub> Stp	BEAL MOUNTAIN MINE-BEEFSTRAIGHT CR #3	Silver Bow	06-Jan-1991	31-Mar-1993
093	0033	82167	1	Zinc PM <sub>10</sub> Stp	BEAL MOUNTAIN MINE-BEEFSTRAIGHT CR #3	Silver Bow	06-Jan-1991	31-Mar-1993
093	0033	85101	1	PM10 - Lc	BEAL MOUNTAIN MINE-BEEFSTRAIGHT CR #3	Silver Bow	01-Jan-1998	31-Dec-1998
093	0034	61101	1	Wind Speed	BEAL MOUNTAIN, WEATHER STATION #4	Silver Bow	20-Dec-1987	31-Dec-1995
093	0034	61102	1	Wind Direction	BEAL MOUNTAIN, WEATHER STATION #4	Silver Bow	20-Dec-1987	31-Dec-1995
093	0034	61106	1	Std Dev Hz Wind Direction	BEAL MOUNTAIN, WEATHER STATION #4	Silver Bow	14-Oct-1989	31-Dec-1995
093	0034	62101	1	Outdoor Temperature	BEAL MOUNTAIN, WEATHER STATION #4	Silver Bow	09-Jan-1990	31-Dec-1995
093	0035	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	BEAL MOUNTAIN MINE-LOWER ACCESS ROAD #5	Silver Bow	05-Nov-1988	26-Apr-1991
093	0035	82102	1	Antimony PM <sub>10</sub> Stp	BEAL MOUNTAIN MINE-LOWER ACCESS ROAD #5	Silver Bow	06-Jan-1991	26-Apr-1991
093	0035	82103	1	Arsenic PM <sub>10</sub> Stp	BEAL MOUNTAIN MINE-LOWER ACCESS ROAD #5	Silver Bow	06-Jan-1991	26-Apr-1991
093	0035	82112	1	Chromium PM <sub>10</sub> Stp	BEAL MOUNTAIN MINE-LOWER ACCESS ROAD #5	Silver Bow	06-Jan-1991	26-Apr-1991
093	0035	82128	1	Lead PM <sub>10</sub> Stp	BEAL MOUNTAIN MINE-LOWER ACCESS ROAD #5	Silver Bow	06-Jan-1991	26-Apr-1991
093	0035	82167	1	Zinc PM <sub>10</sub> Stp	BEAL MOUNTAIN MINE-LOWER ACCESS ROAD #5	Silver Bow	06-Jan-1991	26-Apr-1991
093	0036	11101	1	Suspended Particulate (Tsp)	PEGASUS BEAL MOUNTAIN MINE #6	Silver Bow	24-Oct-1988	05-Feb-1991
093	0036	12102	1	Antimony (Tsp) Stp	PEGASUS BEAL MOUNTAIN MINE #6	Silver Bow	24-Jan-1991	05-Feb-1991
093	0036	12103	1	Arsenic (Tsp) Stp	PEGASUS BEAL MOUNTAIN MINE #6	Silver Bow	24-Jan-1991	05-Feb-1991
093	0036	12112	1	Chromium (Tsp) Stp	PEGASUS BEAL MOUNTAIN MINE #6	Silver Bow	24-Jan-1991	05-Feb-1991

093	0036	12128	1	Lead (Tsp) Stp	PEGASUS BEAL MOUNTAIN MINE #6	Silver Bow	24-Jan-1991	05-Feb-1991
093	0036	12167	1	Zinc (Tsp) Stp	PEGASUS BEAL MOUNTAIN MINE #6	Silver Bow	24-Jan-1991	05-Feb-1991
093	0036	81102	2	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	PEGASUS BEAL MOUNTAIN MINE #6	Silver Bow	24-Oct-1988	31-Dec-1990
093	0036	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	PEGASUS BEAL MOUNTAIN MINE #6	Silver Bow	24-Oct-1988	31-Dec-1997
093	0036	82102	1	Antimony PM <sub>10</sub> Stp	PEGASUS BEAL MOUNTAIN MINE #6	Silver Bow	06-Jan-1991	31-Mar-1993
093	0036	82103	1	Arsenic PM <sub>10</sub> Stp	PEGASUS BEAL MOUNTAIN MINE #6	Silver Bow	06-Jan-1991	31-Mar-1993
093	0036	82112	1	Chromium PM <sub>10</sub> Stp	PEGASUS BEAL MOUNTAIN MINE #6	Silver Bow	06-Jan-1991	31-Mar-1993
093	0036	82128	1	Lead PM <sub>10</sub> Stp	PEGASUS BEAL MOUNTAIN MINE #6	Silver Bow	06-Jan-1991	31-Mar-1993
093	0036	82167	1	Zinc PM <sub>10</sub> Stp	PEGASUS BEAL MOUNTAIN MINE #6	Silver Bow	06-Jan-1991	31-Mar-1993
093	0036	85101	1	PM <sub>10</sub> - Lc	PEGASUS BEAL MOUNTAIN MINE #6	Silver Bow	01-Jan-1998	31-Dec-1998
093	0037	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	BEAL MOUNTAIN, OFFICE SITE #7	Silver Bow	05-Apr-1990	08-Jun-1991
093	0037	82102	1	Antimony PM <sub>10</sub> Stp	BEAL MOUNTAIN, OFFICE SITE #7	Silver Bow	06-Jan-1991	08-Jun-1991
093	0037	82103	1	Arsenic PM <sub>10</sub> Stp	BEAL MOUNTAIN, OFFICE SITE #7	Silver Bow	06-Jan-1991	08-Jun-1991
093	0037	82112	1	Chromium PM <sub>10</sub> Stp	BEAL MOUNTAIN, OFFICE SITE #7	Silver Bow	06-Jan-1991	08-Jun-1991
093	0037	82128	1	Lead PM <sub>10</sub> Stp	BEAL MOUNTAIN, OFFICE SITE #7	Silver Bow	06-Jan-1991	08-Jun-1991
093	0037	82167	1	Zinc PM <sub>10</sub> Stp	BEAL MOUNTAIN, OFFICE SITE #7	Silver Bow	06-Jan-1991	08-Jun-1991
093	0038	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	BEAL MOUNTAIN-CRUSHER UPWIND #8	Silver Bow	08-Jun-1991	31-Dec-1997
093	0038	82102	1	Antimony PM <sub>10</sub> Stp	BEAL MOUNTAIN-CRUSHER UPWIND #8	Silver Bow	08-Jun-1991	31-Mar-1993
093	0038	82103	1	Arsenic PM <sub>10</sub> Stp	BEAL MOUNTAIN-CRUSHER UPWIND #8	Silver Bow	08-Jun-1991	31-Mar-1993
093	0038	82112	1	Chromium PM <sub>10</sub> Stp	BEAL MOUNTAIN-CRUSHER UPWIND #8	Silver Bow	08-Jun-1991	31-Mar-1993
093	0038	82128	1	Lead PM <sub>10</sub> Stp	BEAL MOUNTAIN-CRUSHER UPWIND #8	Silver Bow	08-Jun-1991	31-Mar-1993
093	0038	82167	1	Zinc PM <sub>10</sub> Stp	BEAL MOUNTAIN-CRUSHER UPWIND #8	Silver Bow	08-Jun-1991	31-Mar-1993
093	0038	85101	1	PM <sub>10</sub> - Lc	BEAL MOUNTAIN-CRUSHER UPWIND #8	Silver Bow	01-Jan-1998	31-Dec-1998
093	0041	11101	1	Suspended Particulate (Tsp)	MT Resources-ALPINE, HAYS STREET	Silver Bow	01-Jan-1984	31-Dec-1991
093	0041	12103	1	Arsenic (Tsp) Stp	MT Resources-ALPINE, HAYS STREET	Silver Bow	01-Jan-1984	31-Dec-1991
093	0041	12110	1	Cadmium (Tsp) Stp	MT Resources-ALPINE, HAYS STREET	Silver Bow	01-Jan-1984	31-Dec-1991
093	0041	12114	1	Copper (Tsp) Stp	MT Resources-ALPINE, HAYS STREET	Silver Bow	01-Jan-1984	31-Dec-1991
093	0041	12126	1	Iron (Tsp) Stp	MT Resources-ALPINE, HAYS STREET	Silver Bow	01-Jan-1984	31-Dec-1985
093	0041	12128	1	Lead (Tsp) Stp	MT Resources-ALPINE, HAYS STREET	Silver Bow	01-Jan-1984	31-Dec-1991
093	0041	12134	1	Molybdenum (Tsp) Stp	MT Resources-ALPINE, HAYS STREET	Silver Bow	01-Jan-1984	31-Dec-1985
093	0041	12167	1	Zinc (Tsp) Stp	MT Resources-ALPINE, HAYS STREET	Silver Bow	01-Jan-1984	31-Dec-1985
093	0041	21101	1	Total Dustfall (Sp)	MT Resources-ALPINE, HAYS STREET	Silver Bow	01-Jan-1984	31-Dec-1985
093	0041	61101	1	Wind Speed	MT Resources-ALPINE, HAYS STREET	Silver Bow	01-Jan-1984	31-Dec-1985

093	0041	61102	1	Wind Direction	MT Resources-ALPINE, HAYS STREET	Silver Bow	01-Jan-1984	31-Dec-1985
093	0041	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	MT Resources-ALPINE, HAYS STREET	Silver Bow	01-Oct-1991	31-Dec-1997
093	0041	82114	1	Copper PM <sub>10</sub> Stp	MT Resources-ALPINE, HAYS STREET	Silver Bow	01-Oct-1991	03-Dec-1999
093	0041	82128	1	Lead PM <sub>10</sub> Stp	MT Resources-ALPINE, HAYS STREET	Silver Bow	01-Oct-1991	03-Dec-1999
093	0041	85101	1	PM <sub>10</sub> - Lc	MT Resources-ALPINE, HAYS STREET	Silver Bow	01-Jan-1998	03-Dec-1999
093	0042	11101	1	Suspended Particulate (Tsp)	MT Resources-HILLCREST,HOUSING DIST	Silver Bow	01-Jan-1984	31-Dec-1991
093	0042	12103	1	Arsenic (Tsp) Stp	MT Resources-HILLCREST,HOUSING DIST	Silver Bow	01-Jan-1984	31-Dec-1991
093	0042	12110	1	Cadmium (Tsp) Stp	MT Resources-HILLCREST,HOUSING DIST	Silver Bow	01-Jan-1984	31-Dec-1991
093	0042	12114	1	Copper (Tsp) Stp	MT Resources-HILLCREST,HOUSING DIST	Silver Bow	01-Jan-1984	31-Dec-1991
093	0042	12126	1	Iron (Tsp) Stp	MT Resources-HILLCREST,HOUSING DIST	Silver Bow	01-Jan-1984	31-Dec-1985
093	0042	12128	1	Lead (Tsp) Stp	MT Resources-HILLCREST,HOUSING DIST	Silver Bow	01-Jan-1984	31-Dec-1991
093	0042	12134	1	Molybdenum (Tsp) Stp	MT Resources-HILLCREST,HOUSING DIST	Silver Bow	01-Jan-1985	31-Dec-1985
093	0042	12167	1	Zinc (Tsp) Stp	MT Resources-HILLCREST,HOUSING DIST	Silver Bow	01-Jan-1984	31-Dec-1985
093	0042	21101	1	Total Dustfall (Sp)	MT Resources-HILLCREST,HOUSING DIST	Silver Bow	01-Jan-1984	31-Dec-1985
093	0042	61101	1	Wind Speed	MT Resources-HILLCREST,HOUSING DIST	Silver Bow	01-Jan-1984	31-Dec-1984
093	0042	61102	1	Wind Direction	MT Resources-HILLCREST,HOUSING DIST	Silver Bow	01-Jan-1984	31-Dec-1984
093	0042	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	MT Resources-HILLCREST,HOUSING DIST	Silver Bow	01-Oct-1991	31-Dec-1997
093	0042	82114	1	Copper PM <sub>10</sub> Stp	MT Resources-HILLCREST,HOUSING DIST	Silver Bow	01-Oct-1991	05-Mar-2002
093	0042	82128	1	Lead PM <sub>10</sub> Stp	MT Resources-HILLCREST,HOUSING DIST	Silver Bow	01-Oct-1991	05-Mar-2002
093	0042	85101	1	PM <sub>10</sub> - Lc	MT Resources-HILLCREST,HOUSING DIST	Silver Bow	01-Jan-1998	05-Mar-2002
093	0043	11101	1	Suspended Particulate (Tsp)	MT Resources-BELMONT, 500 E MERCURY	Silver Bow	01-Jan-1984	31-Dec-1991
093	0043	12103	1	Arsenic (Tsp) Stp	MT Resources-BELMONT, 500 E MERCURY	Silver Bow	01-Jan-1984	31-Dec-1991
093	0043	12110	1	Cadmium (Tsp) Stp	MT Resources-BELMONT, 500 E MERCURY	Silver Bow	01-Jan-1984	31-Dec-1991
093	0043	12114	1	Copper (Tsp) Stp	MT Resources-BELMONT, 500 E MERCURY	Silver Bow	01-Jan-1984	31-Dec-1991
093	0043	12126	1	Iron (Tsp) Stp	MT Resources-BELMONT, 500 E MERCURY	Silver Bow	01-Jan-1984	31-Dec-1985
093	0043	12128	1	Lead (Tsp) Stp	MT Resources-BELMONT, 500 E MERCURY	Silver Bow	01-Jan-1984	31-Dec-1991
093	0043	12134	1	Molybdenum (Tsp) Stp	MT Resources-BELMONT, 500 E MERCURY	Silver Bow	01-Jan-1985	31-Dec-1985
093	0043	12167	1	Zinc (Tsp) Stp	MT Resources-BELMONT, 500 E MERCURY	Silver Bow	01-Jan-1984	31-Dec-1985
093	0043	21101	1	Total Dustfall (Sp)	MT Resources-BELMONT, 500 E MERCURY	Silver Bow	01-Jan-1984	31-Dec-1985
093	0043	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	MT Resources-BELMONT, 500 E MERCURY	Silver Bow	01-Oct-1991	28-Oct-1996
093	0043	82114	1	Copper PM <sub>10</sub> Stp	MT Resources-BELMONT, 500 E MERCURY	Silver Bow	01-Oct-1991	28-Oct-1996
093	0043	82128	1	Lead PM <sub>10</sub> Stp	MT Resources-BELMONT, 500 E MERCURY	Silver Bow	01-Oct-1991	28-Oct-1996
093	0044	61101	1	Wind Speed	MT Resources-GUARD SHACK, BUTTE	Silver Bow	30-Jul-1990	31-Mar-2002

093 0044 61102 1 Wind Direction MT Resources-GUARD SHACK, BUTTE Silver Bow 30-Jul-19	∂90 31-Mar-2002
093 0044 61106 1 Std Dev Hz Wind Direction MT Resources-GUARD SHACK, BUTTE Silver Bow 30-Jul-19	990 31-Mar-2002
093 0044 62101 1 Outdoor Temperature MT Resources-GUARD SHACK, BUTTE Silver Bow 30-Jul-19	990 31-Mar-2002
093 0045 11101 1 Suspended Particulate (Tsp) ANACONDA MINERALS-YATES,2411 LOCUST Silver Bow 01-Jan-1	984 31-Dec-1985
093 0045 12103 1 Arsenic (Tsp) Stp ANACONDA MINERALS-YATES,2411 LOCUST Silver Bow 01-Jan-1	984 31-Dec-1985
093 0045 12110 1 Cadmium (Tsp) Stp ANACONDA MINERALS-YATES,2411 LOCUST Silver Bow 01-Jan-1	984 31-Dec-1985
093 0045 12114 1 Copper (Tsp) Stp ANACONDA MINERALS-YATES,2411 LOCUST Silver Bow 01-Jan-1	984 31-Dec-1985
093 0045 12126 1 Iron (Tsp) Stp ANACONDA MINERALS-YATES,2411 LOCUST Silver Bow 01-Jan-1	984 31-Dec-1985
093 0045 12128 1 Lead (Tsp) Stp ANACONDA MINERALS-YATES,2411 LOCUST Silver Bow 01-Jan-1	984 31-Dec-1985
093 0045 12134 1 Molybdenum (Tsp) Stp ANACONDA MINERALS-YATES,2411 LOCUST Silver Bow 01-Jan-1	985 31-Dec-1985
093 0045 12167 1 Zinc (Tsp) Stp ANACONDA MINERALS-YATES,2411 LOCUST Silver Bow 01-Jan-1	984 31-Dec-1985
093 0046 11101 1 Suspended Particulate (Tsp) ANACONDA MINERALS-KAW AVE, George St & MT Silver Bow 01-Jan-1	984 31-Dec-1985
093 0046 12103 1 Arsenic (Tsp) Stp ANACONDA MINERALS-KAW AVE, George St & MT Silver Bow 01-Jan-1	984 31-Dec-1985
093 0046 12110 1 Cadmium (Tsp) Stp ANACONDA MINERALS-KAW AVE, George St & MT Silver Bow 01-Jan-1	984 31-Dec-1985
093 0046 12114 1 Copper (Tsp) Stp ANACONDA MINERALS-KAW AVE, George St & MT Silver Bow 01-Jan-1	984 31-Dec-1985
093 0046 12126 1 Iron (Tsp) Stp ANACONDA MINERALS-KAW AVE,George St & MT Silver Bow 01-Jan-1	984 31-Dec-1985
093 0046 12128 1 Lead (Tsp) Stp ANACONDA MINERALS-KAW AVE, George St & MT Silver Bow 01-Jan-1	984 31-Dec-1985
093 0046 12134 1 Molybdenum (Tsp) Stp ANACONDA MINERALS-KAW AVE,George St & MT Silver Bow 01-Jan-1	985 31-Dec-1985
093 0046 12167 1 Zinc (Tsp) Stp ANACONDA MINERALS-KAW AVE, George St & MT Silver Bow 01-Jan-1	984 31-Dec-1985
093 0046 21101 1 Total Dustfall (Sp) ANACONDA MINERALS-KAW AVE, George St & MT Silver Bow 01-Jan-1	984 31-Dec-1985
093 0046 61101 1 Wind Speed ANACONDA MINERALS-KAW AVE, George St & MT Silver Bow 01-Jan-1	984 31-Dec-1985
093 0046 61102 1 Wind Direction ANACONDA MINERALS-KAW AVE, GEORGE ST&MT Silver Bow 01-Jan-1	984 31-Dec-1985
093 0047 11101 1 Suspended Particulate (Tsp) ANACONDA MINERALS-LEXINGTON AVE,N MAIN Silver Bow 01-Jan-1	984 31-Dec-1985
093 0047 12103 1 Arsenic (Tsp) Stp ANACONDA MINERALS-LEXINGTON AVE,N MAIN Silver Bow 01-Jan-1	984 31-Dec-1985
093 0047 12110 1 Cadmium (Tsp) Stp ANACONDA MINERALS-LEXINGTON AVE,N MAIN Silver Bow 01-Jan-1	984 31-Dec-1985
093 0047 12114 1 Copper (Tsp) Stp ANACONDA MINERALS-LEXINGTON AVE,N MAIN Silver Bow 01-Jan-1	984 31-Dec-1985
093 0047 12126 1 Iron (Tsp) Stp ANACONDA MINERALS-LEXINGTON AVE,N MAIN Silver Bow 01-Jan-1	984 31-Dec-1985
093 0047 12128 1 Lead (Tsp) Stp ANACONDA MINERALS-LEXINGTON AVE,N MAIN Silver Bow 01-Jan-1	984 31-Dec-1985
093 0047 12134 1 Molybdenum (Tsp) Stp ANACONDA MINERALS-LEXINGTON AVE,N MAIN Silver Bow 01-Jan-1	985 31-Dec-1985
093 0047 12167 1 Zinc (Tsp) Stp ANACONDA MINERALS-LEXINGTON AVE,N MAIN Silver Bow 01-Jan-1	984 31-Dec-1985
093 0048 11101 1 Suspended Particulate (Tsp) ANACONDA MINERALS-BARREL POND, CONC Yard Silver Bow 01-Jan-1	984 31-Dec-1985
093 0048 12103 1 Arsenic (Tsp) Stp ANACONDA MINERALS-BARREL POND,Conc.Yard Silver Bow 01-Jan-1	984 31-Dec-1985
093 0048 12110 1 Cadmium (Tsp) Stp ANACONDA MINERALS-BARREL POND,Conc.Yard Silver Bow 01-Jan-1	984 31-Dec-1985

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093	0048	12114	1	Copper (Tsp) Stp	ANACONDA MINERALS-BARREL POND,Conc.Yard	Silver Bow	01-Jan-1984	31-Dec-1985
093	0048	12126	1	Iron (Tsp) Stp	ANACONDA MINERALS-BARREL POND,Conc.Yard	Silver Bow	01-Jan-1984	31-Dec-1985
093	0048	12128	1	Lead (Tsp) Stp	ANACONDA MINERALS-BARREL POND,Conc.Yard	Silver Bow	01-Jan-1984	31-Dec-1985
093	0048	12134	1	Molybdenum (Tsp) Stp	ANACONDA MINERALS-BARREL POND,Conc.Yard	Silver Bow	01-Jan-1985	31-Dec-1985
093	0048	12167	1	Zinc (Tsp) Stp	ANACONDA MINERALS-BARREL POND,Conc.Yard	Silver Bow	01-Jan-1984	31-Dec-1985
093	0049	11101	1	Suspended Particulate (Tsp)	MT Resources-COLUMBIA GARDENS	Silver Bow	21-Jan-1987	31-Dec-1991
093	0049	12103	1	Arsenic (Tsp) Stp	MT Resources-COLUMBIA GARDENS	Silver Bow	21-Jan-1987	31-Dec-1991
093	0049	12110	1	Cadmium (Tsp) Stp	MT Resources-COLUMBIA GARDENS	Silver Bow	21-Jan-1987	31-Dec-1991
093	0049	12114	1	Copper (Tsp) Stp	MT Resources-COLUMBIA GARDENS	Silver Bow	21-Jan-1987	31-Dec-1991
093	0049	12128	1	Lead (Tsp) Stp	MT Resources-COLUMBIA GARDENS	Silver Bow	21-Jan-1987	31-Dec-1991
093	0050	11101	1	Suspended Particulate (Tsp)	MT Resources-BARGE STATION	Silver Bow	22-Dec-1986	31-Dec-1991
093	0050	12103	1	Arsenic (Tsp) Stp	MT Resources-BARGE STATION	Silver Bow	22-Dec-1986	31-Dec-1991
093	0050	12110	1	Cadmium (Tsp) Stp	MT Resources-BARGE STATION	Silver Bow	22-Dec-1986	31-Dec-1991
093	0050	12114	1	Copper (Tsp) Stp	MT Resources-BARGE STATION	Silver Bow	22-Dec-1986	31-Dec-1991
093	0050	12128	1	Lead (Tsp) Stp	MT Resources-BARGE STATION	Silver Bow	22-Dec-1986	31-Dec-1991
093	0053	42101	1	Carbon Monoxide	STORM SEWER, BUTTE; HARRISON AVE & I-90	Silver Bow	07-Nov-1997	31-Dec-2006
093	0053	61101	1	Wind Speed	STORM SEWER, BUTTE; HARRISON AVE & I-90	Silver Bow	07-Nov-1997	30-Sep-2001
093	0053	61102	1	Wind Direction	STORM SEWER, BUTTE; HARRISON AVE & I-90	Silver Bow	07-Nov-1997	30-Sep-2001
093	0053	61106	1	Std Dev Hz Wind Direction	STORM SEWER, BUTTE; HARRISON AVE & I-90	Silver Bow	07-Nov-1997	30-Sep-2001
093	0054	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	BELMONT SOUTH;616 E MERCURY,BUTTE	Silver Bow	04-Nov-1996	31-Dec-1997
093	0054	82114	1	Copper PM <sub>10</sub> Stp	BELMONT SOUTH;616 E MERCURY,BUTTE	Silver Bow	04-Nov-1996	05-Mar-2002
093	0054	82128	1	Lead PM <sub>10</sub> Stp	BELMONT SOUTH;616 E MERCURY,BUTTE	Silver Bow	04-Nov-1996	05-Mar-2002
093	0054	85101	1	PM <sub>10</sub> - Lc	BELMONT SOUTH;616 E MERCURY,BUTTE	Silver Bow	01-Jan-1998	05-Mar-2002
093	0906	42401	1	Sulfur Dioxide	VORTAC	Silver Bow	01-Jan-1973	31-Dec-1973
093	0906	42401	2	Sulfur Dioxide	VORTAC	Silver Bow	01-Jan-1973	31-Dec-1975
093	1007	11101	1	Suspended Particulate (Tsp)	RAMSAY SCHOOL (RAMSAY)	Silver Bow	01-Jan-1971	31-Dec-1972
093	1007	11103	1	Benzene Sol.Organics(TSP)	RAMSAY SCHOOL (RAMSAY)	Silver Bow	01-Jan-1971	31-Dec-1972
093	1007	12103	1	Arsenic (Tsp) Stp	RAMSAY SCHOOL (RAMSAY)	Silver Bow	01-Jan-1971	31-Dec-1972
093	1007	12110	1	Cadmium (Tsp) Stp	RAMSAY SCHOOL (RAMSAY)	Silver Bow	01-Jan-1971	31-Dec-1972
093	1007	12128	1	Lead (Tsp) Stp	RAMSAY SCHOOL (RAMSAY)	Silver Bow	01-Jan-1971	31-Dec-1972
093	1007	12167	1	Zinc (Tsp) Stp	RAMSAY SCHOOL (RAMSAY)	Silver Bow	01-Jan-1971	31-Dec-1972
093	1007	12202	1	Fluoride (Tsp) Stp	RAMSAY SCHOOL (RAMSAY)	Silver Bow	01-Jan-1971	31-Dec-1971
093	1007	12209	1	Fluoride (Paper Samplers)	RAMSAY SCHOOL (RAMSAY)	Silver Bow	01-Jan-1971	31-Dec-1971
093	1007	12403	1	Sulfate (Tsp) Stp	RAMSAY SCHOOL (RAMSAY)	Silver Bow	01-Jan-1971	31-Dec-1971
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093	1014	11101	1	Suspended Particulate (Tsp)	COLUMBIA GARDENS	Silver Bow	01-Jan-1974	31-Dec-1975
093	1015	11101	1	Suspended Particulate (Tsp)	TIERNEY RESIDENCE, RAMSAY	Silver Bow	01-Jan-1975	31-Dec-1981
093	1015	12306	1	Nitrate (Tsp) Stp	TIERNEY RESIDENCE, RAMSAY	Silver Bow	01-Jan-1979	31-Dec-1980
093	1015	12403	1	Sulfate (Tsp) Stp	TIERNEY RESIDENCE, RAMSAY	Silver Bow	01-Jan-1979	31-Dec-1979
093	1018	12208	1	Fluoride (Vegation)	RHONE-POULENC,#1 UELAND,1.5 MI SE RAMSAY	Silver Bow	01-Nov-1982	01-Sep-1996
093	1019	12208	1	Fluoride (Vegation)	RHONE-POULENC,#2 UELAND,2.5 MI SE RAMSAY	Silver Bow	01-Nov-1982	01-Sep-1996
093	1020	12208	1	Fluoride (Vegation)	RHONE-POULENC,#3 UELAND,1.25 M SW RAMSAY	Silver Bow	01-Nov-1982	01-Sep-1996
093	1023	12208	1	Fluoride (Vegation)	RHONE-POULENC,#6 HILDERMAN,.25 M W RAMSY	Silver Bow	01-Nov-1982	01-Sep-1996
093	1024	12208	1	Fluoride (Vegation)	RHONE-POULENC,#7 TAMIETTI,1 MI NW RAMSAY	Silver Bow	01-May-1985	01-Sep-1996
093	1027	12208	1	Fluoride (Vegation)	RHONE-POULENC,#13 UELAND,2 MI SW RAMSAY	Silver Bow	01-Jan-1983	01-Sep-1996
093	1029	12208	1	Fluoride (Vegation)	RHONE-POULENC,#16 CRADDOCK,4.5 M NW RMSY	Silver Bow	01-Jan-1983	01-Sep-1996
093	1030	12208	1	Fluoride (Vegation)	RHONE-POULENC,#17 ERICKSONS HAY PASTURE	Silver Bow	01-May-1985	01-Sep-1996
095	0001	81102	2	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	STILLWATER MINE UPWIND #1, NYE	Stillwater	01-Oct-2001	01-Jul-2002
095	0001	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	STILLWATER MINE UPWIND #1, NYE	Stillwater	20-Jun-1988	31-Dec-1997
095	0001	85101	1	PM <sub>10</sub> - Lc	STILLWATER MINE UPWIND #1, NYE	Stillwater	01-Jan-1998	01-Jul-2002
095	0002	11101	1	Suspended Particulate (Tsp)	STILLWATER MINE DOWNWIND SITE #2	Stillwater	20-Jun-1988	11-Feb-1991
095	0002	12112	1	Chromium (Tsp) Stp	STILLWATER MINE DOWNWIND SITE #2	Stillwater	01-Jan-1990	31-Dec-1990
095	0002	12128	1	Lead (Tsp) Stp	STILLWATER MINE DOWNWIND SITE #2	Stillwater	01-Jan-1990	31-Dec-1990
095	0002	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	STILLWATER MINE DOWNWIND SITE #2	Stillwater	20-Jun-1988	31-Dec-1997
095	0002	82103	1	Arsenic PM <sub>10</sub> Stp	STILLWATER MINE DOWNWIND SITE #2	Stillwater	01-Jan-1991	31-Dec-1991
095	0002	82110	1	Cadmium PM <sub>10</sub> Stp	STILLWATER MINE DOWNWIND SITE #2	Stillwater	01-Jan-1991	31-Dec-1991
095	0002	82112	1	Chromium PM <sub>10</sub> Stp	STILLWATER MINE DOWNWIND SITE #2	Stillwater	01-Jan-1991	31-Mar-1993
095	0002	82128	1	Lead PM <sub>10</sub> Stp	STILLWATER MINE DOWNWIND SITE #2	Stillwater	01-Jan-1991	31-Mar-1993
095	0002	82167	1	Zinc PM <sub>10</sub> Stp	STILLWATER MINE DOWNWIND SITE #2	Stillwater	01-Jan-1991	31-Dec-1991
095	0002	85101	1	PM <sub>10</sub> - Lc	STILLWATER MINE DOWNWIND SITE #2	Stillwater	01-Jan-1998	29-Sep-2001
095	0003	61101	1	Wind Speed	STILLWATER MINE MET STATION, NYE	Stillwater	01-Jan-1988	01-Apr-1992
095	0003	61102	1	Wind Direction	STILLWATER MINE MET STATION, NYE	Stillwater	01-Jan-1988	01-Apr-1992
095	0003	61106	1	Std Dev Hz Wind Direction	STILLWATER MINE MET STATION, NYE	Stillwater	21-Mar-1990	01-Apr-1992
095	0003	62101	1	Outdoor Temperature	STILLWATER MINE MET STATION, NYE	Stillwater	21-Mar-1990	01-Apr-1992
095	0004	61101	1	Wind Speed	STILLWATER SMELTER MET STATION, COLUMBUS	Stillwater	04-May-1990	31-Mar-1993
095	0004	61102	1	Wind Direction	STILLWATER SMELTER MET STATION, COLUMBUS	Stillwater	04-May-1990	31-Mar-1993
095	0004	61106	1	Std Dev Hz Wind Direction	STILLWATER SMELTER MET STATION, COLUMBUS	Stillwater	04-May-1990	31-Mar-1993

095	0004	62101	1	Outdoor Temperature	STILLWATER SMELTER MET STATION, COLUMBUS	Stillwater	04-May-1990	31-Mar-1993
095	0005	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	15 MILES S. OF NYE, STATE 420 (STILLWATER N.)	Stillwater	01-Oct-2001	01-Jul-2002
095	0005	85101	1	PM <sub>10</sub> - Lc	15 MILES S. OF NYE, STATE 420 (STILLWATER N.)	Stillwater	01-Oct-2001	01-Jul-2002
097	0002	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	30 MILES SOUTH OF BIG TIMBER	Sweet Grass	01-Apr-2001	27-Oct-2006
097	0002	85101	1	PM <sub>10</sub> - Lc	30 MILES SOUTH OF BIG TIMBER	Sweet Grass	01-Apr-2001	27-Oct-2006
097	0003	61101	1	Wind Speed	30 MILES SOUTH OF BIG TIMBER	Sweet Grass	01-Apr-2001	
097	0003	61102	1	Wind Direction	30 MILES SOUTH OF BIG TIMBER	Sweet Grass	01-Apr-2001	
097	0003	61106	1	Std Dev Hz Wind Direction	30 MILES SOUTH OF BIG TIMBER	Sweet Grass	01-Apr-2001	
097	0004	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	30 MILES SOUTH OF BIG TIMBER	Sweet Grass	01-Apr-2001	27-Oct-2006
097	0004	81102	2	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	30 MILES SOUTH OF BIG TIMBER	Sweet Grass	01-Apr-2001	27-Oct-2006
097	0004	85101	1	PM <sub>10</sub> - Lc	30 MILES SOUTH OF BIG TIMBER	Sweet Grass	01-Apr-2001	27-Oct-2006
097	0004	85101	2	PM <sub>10</sub> - Lc	30 MILES SOUTH OF BIG TIMBER	Sweet Grass	01-Apr-2001	27-Oct-2006
097	0005	61101	1	Wind Speed	STILLWATER PGM, EAST BOULDER MINE	Sweet Grass	29-Nov-1988	01-Jul-1992
097	0005	61102	1	Wind Direction	STILLWATER PGM, EAST BOULDER MINE	Sweet Grass	29-Nov-1988	01-Jul-1992
097	0005	61106	1	Std Dev Hz Wind Direction	STILLWATER PGM, EAST BOULDER MINE	Sweet Grass	04-Jun-1990	01-Jul-1992
097	0005	62101	1	Outdoor Temperature	STILLWATER PGM, EAST BOULDER MINE	Sweet Grass	04-Jun-1990	01-Jul-1992
097	0005	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	STILLWATER PGM, EAST BOULDER MINE	Sweet Grass	29-Nov-1988	29-May-1991
097	0005	82103	1	Arsenic PM <sub>10</sub> Stp	STILLWATER PGM, EAST BOULDER MINE	Sweet Grass	29-Nov-1988	29-May-1991
097	0005	82110	1	Cadmium PM <sub>10</sub> Stp	STILLWATER PGM, EAST BOULDER MINE	Sweet Grass	29-Nov-1988	29-May-1991
097	0005	82112	1	Chromium PM <sub>10</sub> Stp	STILLWATER PGM, EAST BOULDER MINE	Sweet Grass	29-Nov-1988	29-May-1991
097	0005	82114	1	Copper PM <sub>10</sub> Stp	STILLWATER PGM, EAST BOULDER MINE	Sweet Grass	29-Nov-1988	29-May-1991
097	0005	82128	1	Lead PM <sub>10</sub> Stp	STILLWATER PGM, EAST BOULDER MINE	Sweet Grass	29-Nov-1988	29-May-1991
099	0004	11101	1	Suspended Particulate (Tsp)	CIRCLE8 RANCH BOX 729 CHOTEAU MT 59422	Teton	01-Jan-1985	31-Dec-1985
099	0004	42410	1	Sulfation Rate	CIRCLE8 RANCH BOX 729 CHOTEAU MT 59422	Teton	01-Apr-1985	31-Dec-1985
101	8000	42410	1	Sulfation Rate	ANABELLE SHEETS BOX 428 OILMONT MT 59466	Toole	01-Jan-1985	31-Dec-1987
105	0001	42410	1	Sulfation Rate	BOX 506 POPLAR MT 59255	Valley	01-Jan-1983	31-Dec-1984
105	0002	11101	1	Suspended Particulate (Tsp)	LUSTRE, MT SEC 4 T3 ON R44E	Valley	01-Jan-1985	31-Dec-1987
105	0002	12306	1	Nitrate (Tsp) Stp	LUSTRE, MT SEC 4 T3 ON R44E	Valley	01-Jan-1985	31-Dec-1987
105	0002	12403	1	Sulfate (Tsp) Stp	LUSTRE, MT SEC 4 T3 ON R44E	Valley	01-Jan-1985	31-Dec-1987
105	0002	42410	1	Sulfation Rate	LUSTRE, MT SEC 4 T3 ON R44E	Valley	01-Jan-1985	31-Dec-1987
105	0002	61101	1	Wind Speed	LUSTRE, MT SEC 4 T3 ON R44E	Valley	07-Mar-1987	31-Dec-1987
105	0002	61102	1	Wind Direction	LUSTRE, MT SEC 4 T3 ON R44E	Valley	07-Mar-1987	31-Dec-1987
105	0002	62101	1	Outdoor Temperature	LUSTRE, MT SEC 4 T3 ON R44E	Valley	01-Jan-1987	31-Dec-1987

111	0001	42410	1	Sulfation Rate	214 PUEBLO ST. BILLINGS MT	Yellowstone	01-Jan-1984	31-Dec-1986
111	0003	42410	1	Sulfation Rate	113 BITTERROOT DR, BILLINGS, MT	Yellowstone	01-Jan-1982	31-Dec-1990
111	0004	42410	1	Sulfation Rate	114 JOHNSON LANE	Yellowstone	01-Jan-1982	31-Dec-1990
111	0005	11101	1	Suspended Particulate (Tsp)	FAIRGROUNDS COMPLEX	Yellowstone	01-Jan-1971	31-Dec-1974
111	0005	11103	1	Benzene Sol.Organics(TSP)	FAIRGROUNDS COMPLEX	Yellowstone	01-Jan-1971	31-Dec-1971
111	0005	12110	1	Cadmium (Tsp) Stp	FAIRGROUNDS COMPLEX	Yellowstone	01-Jan-1971	31-Dec-1971
111	0005	12128	1	Lead (Tsp) Stp	FAIRGROUNDS COMPLEX	Yellowstone	01-Jan-1971	31-Dec-1971
111	0005	12167	1	Zinc (Tsp) Stp	FAIRGROUNDS COMPLEX	Yellowstone	01-Jan-1971	31-Dec-1971
111	0006	11101	1	Suspended Particulate (Tsp)	LOCKWOOD SCHOOL, HARDIN RD,3/4 MI E BLGS	Yellowstone	01-Jan-1971	31-Dec-1983
111	0006	12101	1	Aluminum (Tsp) Stp	LOCKWOOD SCHOOL, HARDIN RD,3/4 MI E BLGS	Yellowstone	01-Jan-1978	31-Dec-1978
111	0006	12103	1	Arsenic (Tsp) Stp	LOCKWOOD SCHOOL, HARDIN RD,3/4 MI E BLGS	Yellowstone	01-Jan-1978	31-Dec-1980
111	0006	12110	1	Cadmium (Tsp) Stp	LOCKWOOD SCHOOL, HARDIN RD,3/4 MI E BLGS	Yellowstone	26-Apr-1978	31-Dec-1980
111	0006	12112	1	Chromium (Tsp) Stp	LOCKWOOD SCHOOL, HARDIN RD,3/4 MI E BLGS	Yellowstone	01-Jan-1979	31-Dec-1980
111	0006	12114	1	Copper (Tsp) Stp	LOCKWOOD SCHOOL, HARDIN RD,3/4 MI E BLGS	Yellowstone	03-Mar-1978	31-Dec-1980
111	0006	12126	1	Iron (Tsp) Stp	LOCKWOOD SCHOOL, HARDIN RD,3/4 MI E BLGS	Yellowstone	01-Jan-1978	31-Dec-1978
111	0006	12128	1	Lead (Tsp) Stp	LOCKWOOD SCHOOL, HARDIN RD,3/4 MI E BLGS	Yellowstone	01-Jan-1978	31-Dec-1980
111	0006	12132	1	Manganese (Tsp) Stp	LOCKWOOD SCHOOL, HARDIN RD,3/4 MI E BLGS	Yellowstone	01-Jan-1979	31-Dec-1980
111	0006	12136	1	Nickel (Tsp) Stp	LOCKWOOD SCHOOL, HARDIN RD,3/4 MI E BLGS	Yellowstone	01-Jan-1979	31-Dec-1980
111	0006	12164	1	Vanadium (Tsp) Stp	LOCKWOOD SCHOOL, HARDIN RD,3/4 MI E BLGS	Yellowstone	01-Jan-1979	31-Dec-1980
111	0006	12167	1	Zinc (Tsp) Stp	LOCKWOOD SCHOOL, HARDIN RD,3/4 MI E BLGS	Yellowstone	01-Jan-1978	31-Dec-1978
111	0006	12306	2	Nitrate (Tsp) Stp	LOCKWOOD SCHOOL, HARDIN RD,3/4 MI E BLGS	Yellowstone	01-Jan-1976	31-Dec-1977
111	0006	12306	1	Nitrate (Tsp) Stp	LOCKWOOD SCHOOL, HARDIN RD,3/4 MI E BLGS	Yellowstone	01-Jan-1979	31-Dec-1980
111	0006	12306	3	Nitrate (Tsp) Stp	LOCKWOOD SCHOOL, HARDIN RD,3/4 MI E BLGS	Yellowstone	01-Jan-1976	31-Dec-1976
111	0006	12403	1	Sulfate (Tsp) Stp	LOCKWOOD SCHOOL, HARDIN RD,3/4 MI E BLGS	Yellowstone	01-Jan-1979	31-Dec-1980
111	0006	12403	2	Sulfate (Tsp) Stp	LOCKWOOD SCHOOL, HARDIN RD,3/4 MI E BLGS	Yellowstone	01-Jan-1976	31-Dec-1977
111	0006	42401	1	Sulfur Dioxide	LOCKWOOD SCHOOL, HARDIN RD,3/4 MI E BLGS	Yellowstone	01-Jan-1975	31-Dec-1981
111	0006	42401	3	Sulfur Dioxide	LOCKWOOD SCHOOL, HARDIN RD,3/4 MI E BLGS	Yellowstone	01-Jan-1975	31-Dec-1981
111	0006	42410	1	Sulfation Rate	LOCKWOOD SCHOOL, HARDIN RD,3/4 MI E BLGS	Yellowstone	01-Jan-1978	31-Dec-1990
111	0006	42602	1	Nitrogen Dioxide	LOCKWOOD SCHOOL, HARDIN RD,3/4 MI E BLGS	Yellowstone	01-Jan-1979	31-Dec-1981
111	0006	61101	1	Wind Speed	LOCKWOOD SCHOOL, HARDIN RD,3/4 MI E BLGS	Yellowstone	01-Jan-1979	31-Dec-1980
111	0006	61102	1	Wind Direction	LOCKWOOD SCHOOL, HARDIN RD,3/4 MI E BLGS	Yellowstone	01-Jan-1979	31-Dec-1980
111	0007	11101	1	Suspended Particulate (Tsp)	KGHL STATION, 3-3/4 MI W BLGS ON HIWAY 10	Yellowstone	01-Jan-1971	31-Dec-1982
111	0007	11103	1	Benzene Sol.Organics(TSP)	KGHL STATION,3-3/4 MI W BLGS ON HIWAY 10	Yellowstone	01-Jan-1971	31-Dec-1971

111	0007	12103	1	Arsenic (Tsp) Stp	KGHL STATION,3-3/4 MI W BLGS ON HIWAY 10	Yellowstone	01-Jan-1971	31-Dec-1971
111	0007	12110	1	Cadmium (Tsp) Stp	KGHL STATION,3-3/4 MI W BLGS ON HIWAY 10	Yellowstone	01-Jan-1971	31-Dec-1971
111	0007	12128	1	Lead (Tsp) Stp	KGHL STATION,3-3/4 MI W BLGS ON HIWAY 10	Yellowstone	01-Jan-1971	31-Dec-1971
111	0007	12167	1	Zinc (Tsp) Stp	KGHL STATION, 3-3/4 MI W BLGS ON HIWAY 10	Yellowstone	01-Jan-1971	31-Dec-1971
111	0007	42410	1	Sulfation Rate	KGHL STATION,3-3/4 MI W BLGS ON HIWAY 10	Yellowstone	01-Jan-1978	31-Dec-1990
111	0008	11101	2	Suspended Particulate (Tsp)	CITY HALL, 73RD AVE N & 27TH ST	Yellowstone	01-Jan-1981	31-Dec-1990
111	0008	11101	1	Suspended Particulate (Tsp)	CITY HALL, 73RD AVE N & 27TH ST	Yellowstone	01-Jul-1971	31-Dec-1991
111	0008	11103	1	Benzene Sol.Organics(TSP)	CITY HALL, 73RD AVE N & 27TH ST	Yellowstone	01-Jul-1971	31-Dec-1971
111	0008	12101	1	Aluminum (Tsp) Stp	CITY HALL, 73RD AVE N & 27TH ST	Yellowstone	01-Jan-1978	31-Dec-1978
111	0008	12103	1	Arsenic (Tsp) Stp	CITY HALL, 73RD AVE N & 27TH ST	Yellowstone	01-Jan-1978	31-Dec-1978
111	0008	12110	1	Cadmium (Tsp) Stp	CITY HALL, 73RD AVE N & 27TH ST	Yellowstone	01-Jul-1971	31-Dec-1978
111	0008	12114	1	Copper (Tsp) Stp	CITY HALL, 73RD AVE N & 27TH ST	Yellowstone	01-Jan-1978	31-Dec-1978
111	0008	12126	1	Iron (Tsp) Stp	CITY HALL, 73RD AVE N & 27TH ST	Yellowstone	01-Jan-1978	31-Dec-1978
111	0008	12128	1	Lead (Tsp) Stp	CITY HALL, 73RD AVE N & 27TH ST	Yellowstone	01-Jul-1971	31-Dec-1978
111	0008	12167	1	Zinc (Tsp) Stp	CITY HALL, 73RD AVE N & 27TH ST	Yellowstone	01-Jul-1971	31-Dec-1978
111	0008	42410	1	Sulfation Rate	CITY HALL, 73RD AVE N & 27TH ST	Yellowstone	01-Jan-1978	31-Dec-1990
111	0009	11101	1	Suspended Particulate (Tsp)	GRAND AVE SCHOOL, 1320 GRAND AVE	Yellowstone	01-Jul-1971	31-Dec-1985
111	0009	12101	1	Aluminum (Tsp) Stp	GRAND AVE SCHOOL, 1320 GRAND AVE	Yellowstone	01-Jan-1978	31-Dec-1978
111	0009	12103	1	Arsenic (Tsp) Stp	GRAND AVE SCHOOL, 1320 GRAND AVE	Yellowstone	01-Jan-1978	31-Dec-1978
111	0009	12114	1	Copper (Tsp) Stp	GRAND AVE SCHOOL, 1320 GRAND AVE	Yellowstone	01-Jan-1978	31-Dec-1978
111	0009	12126	1	Iron (Tsp) Stp	GRAND AVE SCHOOL, 1320 GRAND AVE	Yellowstone	01-Jan-1978	31-Dec-1978
111	0009	12128	1	Lead (Tsp) Stp	GRAND AVE SCHOOL, 1320 GRAND AVE	Yellowstone	01-Jan-1978	31-Dec-1978
111	0009	12167	1	Zinc (Tsp) Stp	GRAND AVE SCHOOL, 1320 GRAND AVE	Yellowstone	01-Jan-1978	31-Dec-1978
111	0009	42410	1	Sulfation Rate	GRAND AVE SCHOOL, 1320 GRAND AVE	Yellowstone	01-Jan-1979	31-Dec-1985
111	0010	42410	1	Sulfation Rate	GARDEN AVE BILLINGS, MT	Yellowstone	01-Jan-1982	31-Dec-1986
111	0011	42410	1	Sulfation Rate	33 AND 2ND AVE N. BILLINGS, MT	Yellowstone	01-Jan-1982	31-Dec-1986
111	0012	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	CORNER NORTH 18 ST AND 6TH AVE. NORTH	Yellowstone	11-Nov-2004	31-Dec-2006
111	0012	85101	1	PM <sub>10</sub> - Lc	CORNER NORTH 18 ST AND 6TH AVE. NORTH	Yellowstone	11-Nov-2004	31-Dec-2006
111	0013	42410	1	Sulfation Rate	WEST COOP,LAUREL	Yellowstone	01-Jan-1981	31-Dec-1990
111	0014	42410	1	Sulfation Rate	MTN VIEW BLVD BILLINGS, MT	Yellowstone	01-Jan-1982	31-Dec-1986
111	0015	42401	1	Sulfur Dioxide	LAUREL BN, EAST RAILROAD ST	Yellowstone	01-Jan-1981	31-Dec-1982
111	0015	61101	1	Wind Speed	LAUREL BN, EAST RAILROAD ST	Yellowstone	01-Jan-1981	31-Dec-1982
111	0015	61102	1	Wind Direction	LAUREL BN, EAST RAILROAD ST	Yellowstone	01-Jan-1981	31-Dec-1982

111	0015	62101	1	Outdoor Temperature	LAUREL BN, EAST RAILROAD ST	Yellowstone	01-Jan-1981	31-Dec-1982
111	0016	42401	1	Sulfur Dioxide	BLAQTC - LAUREL, 1/2 MI E OF CENEX	Yellowstone	01-Nov-1987	
111	0016	42406	1	So2 Max 5-Min Avg	BLAQTC - LAUREL, 1/2 MI E OF CENEX	Yellowstone	01-Sep-1990	31-Mar-1991
111	0016	61101	1	Wind Speed	BLAQTC - LAUREL, 1/2 MI E OF CENEX	Yellowstone	01-Nov-1987	
111	0016	61102	1	Wind Direction	BLAQTC - LAUREL, 1/2 MI E OF CENEX	Yellowstone	01-Nov-1987	
111	0016	61106	1	Std Dev Hz Wind Direction	BLAQTC - LAUREL, 1/2 MI E OF CENEX	Yellowstone	01-Nov-1987	
111	0016	61120	1	Atmospheric Stability	BLAQTC - LAUREL, 1/2 MI E OF CENEX	Yellowstone	01-Nov-1987	
111	0016	62101	1	Outdoor Temperature	BLAQTC - LAUREL, 1/2 MI E OF CENEX	Yellowstone	01-Nov-1987	19-Apr-2006
111	0016	62101	2	Outdoor Temperature	BLAQTC - LAUREL, 1/2 MI E OF CENEX	Yellowstone	20-Apr-2006	
111	0017	42410	1	Sulfation Rate	1200 MINNESOTA AVE	Yellowstone	01-Jan-1982	31-Dec-1990
111	0018	42410	1	Sulfation Rate	5TH AND SOUTH 28TH BILLINGS MT	Yellowstone	01-Jan-1982	31-Dec-1990
111	0019	42410	1	Sulfation Rate	SOUTH 27TH & 11TH AVE S., BILLINGS	Yellowstone	01-Jan-1982	31-Dec-1990
111	0021	42410	1	Sulfation Rate	EAST OF CONOCO REFINERY, FONTAGE ROAD	Yellowstone	01-Jan-1982	31-Dec-1986
111	0022	42410	1	Sulfation Rate	TWO MOON PARK FRONTAGE ROAD	Yellowstone	01-Jan-1982	31-Dec-1986
111	0025	42410	1	Sulfation Rate	STATE ST & 3RD SOUTH, BILLINGS	Yellowstone	01-Jan-1984	31-Dec-1986
111	0027	42410	1	Sulfation Rate	NEWMAN SCHOOL BILLINGS MT	Yellowstone	01-Jan-1982	31-Dec-1986
111	0028	42410	1	Sulfation Rate	BENCH SCHOOL MILTON ROAD	Yellowstone	01-Jan-1982	31-Dec-1986
111	0032	42410	1	Sulfation Rate	KLENCK LANE BILLINGS MT	Yellowstone	01-Jan-1982	31-Dec-1986
111	0034	42410	1	Sulfation Rate	PICCOLO & W FRONTAGE RD, BILLINGS	Yellowstone	01-Jan-1982	31-Dec-1990
111	0035	42401	1	Sulfur Dioxide	HI-BALL TRUCKING, BILLINGS	Yellowstone	01-Jan-1974	31-Dec-1975
111	0037	42410	1	Sulfation Rate	JOHNSON AND LOCKWOOD BILLINGS, MT	Yellowstone	01-Jan-1982	31-Dec-1986
111	0038	42410	1	Sulfation Rate	JOHNSON RD NORTH BILLINGS, MT	Yellowstone	01-Jan-1982	31-Dec-1990
111	0043	42410	1	Sulfation Rate	WOODLAND DRIVE, BILLINGS	Yellowstone	01-Jan-1982	31-Dec-1983
111	0044	42410	1	Sulfation Rate	COBURN ROAD BILLINGS, MT	Yellowstone	01-Jan-1982	31-Dec-1983
111	0047	11101	1	Suspended Particulate (Tsp)	LAB-SEWAGE TREATMENT PLANT	Yellowstone	01-Jan-1971	31-Dec-1972
111	0049	11101	1	Suspended Particulate (Tsp)	LAB-WATER TREATMENT PLANT	Yellowstone	01-Jan-1972	31-Dec-1972
111	0052	42101	1	Carbon Monoxide	DIVISION AND GRAND	Yellowstone	01-Jan-1975	31-Dec-1975
111	0052	42401	1	Sulfur Dioxide	DIVISION AND GRAND	Yellowstone	01-Jan-1975	31-Dec-1975
111	0052	42602	2	Nitrogen Dioxide	DIVISION AND GRAND	Yellowstone	01-Jan-1974	31-Dec-1975
111	0052	42602	1	Nitrogen Dioxide	DIVISION AND GRAND	Yellowstone	01-Jan-1975	31-Dec-1975
111	0052	43102	1	Total Nmoc	DIVISION AND GRAND	Yellowstone	01-Jan-1975	31-Dec-1975
111	0052	44201	1	Ozone	DIVISION AND GRAND	Yellowstone	01-Jan-1974	31-Dec-1975
111	0053	42101	1	Carbon Monoxide	27TH AND MONTANA	Yellowstone	01-Jan-1975	31-Dec-1978

111	0053	42401	1	Sulfur Dioxide	27TH AND MONTANA	Yellowstone	01-Jan-1975	31-Dec-1978
111	0053	42602	1	Nitrogen Dioxide	27TH AND MONTANA	Yellowstone	01-Jan-1975	31-Dec-1978
111	0053	43101	1	Total Hydrocarbons	27TH AND MONTANA	Yellowstone	01-Jan-1976	31-Dec-1978
111	0053	43102	1	Total Nmoc	27TH AND MONTANA	Yellowstone	01-Jan-1975	31-Dec-1978
111	0053	44201	1	Ozone	27TH AND MONTANA	Yellowstone	01-Jan-1975	31-Dec-1978
111	0054	42101	1	Carbon Monoxide	11TH & SO 27TH, N OF GREAT WESTERN	Yellowstone	01-Jan-1975	31-Dec-1976
111	0054	43101	1	Total Hydrocarbons	11TH & SO 27TH, N OF GREAT WESTERN	Yellowstone	01-Jan-1976	31-Dec-1976
111	0054	43102	1	Total Nmoc	11TH & SO 27TH, N OF GREAT WESTERN	Yellowstone	01-Jan-1976	31-Dec-1976
111	0059	11101	1	Suspended Particulate (Tsp)	CENTRAL PARK, BILLINGS	Yellowstone	01-Jan-1978	31-Dec-1981
111	0059	11101	2	Suspended Particulate (Tsp)	CENTRAL PARK, BILLINGS	Yellowstone	01-Jan-1978	31-Dec-1978
111	0059	12101	2	Aluminum (Tsp) Stp	CENTRAL PARK, BILLINGS	Yellowstone	01-Jan-1978	31-Dec-1978
111	0059	12101	1	Aluminum (Tsp) Stp	CENTRAL PARK, BILLINGS	Yellowstone	01-Jan-1978	31-Dec-1979
111	0059	12103	1	Arsenic (Tsp) Stp	CENTRAL PARK, BILLINGS	Yellowstone	01-Jan-1978	31-Dec-1980
111	0059	12110	2	Cadmium (Tsp) Stp	CENTRAL PARK, BILLINGS	Yellowstone	01-Jan-1978	31-Dec-1978
111	0059	12110	1	Cadmium (Tsp) Stp	CENTRAL PARK, BILLINGS	Yellowstone	01-Jan-1978	31-Dec-1980
111	0059	12112	1	Chromium (Tsp) Stp	CENTRAL PARK, BILLINGS	Yellowstone	01-Jan-1978	31-Dec-1980
111	0059	12114	2	Copper (Tsp) Stp	CENTRAL PARK, BILLINGS	Yellowstone	01-Jan-1978	31-Dec-1978
111	0059	12114	1	Copper (Tsp) Stp	CENTRAL PARK, BILLINGS	Yellowstone	01-Jan-1978	31-Dec-1980
111	0059	12126	2	Iron (Tsp) Stp	CENTRAL PARK, BILLINGS	Yellowstone	01-Jan-1978	31-Dec-1978
111	0059	12126	1	Iron (Tsp) Stp	CENTRAL PARK, BILLINGS	Yellowstone	01-Jan-1978	31-Dec-1979
111	0059	12128	1	Lead (Tsp) Stp	CENTRAL PARK, BILLINGS	Yellowstone	01-Jan-1978	31-Dec-1980
111	0059	12128	2	Lead (Tsp) Stp	CENTRAL PARK, BILLINGS	Yellowstone	01-Jan-1978	31-Dec-1978
111	0059	12132	1	Manganese (Tsp) Stp	CENTRAL PARK, BILLINGS	Yellowstone	01-Jan-1978	31-Dec-1980
111	0059	12132	2	Manganese (Tsp) Stp	CENTRAL PARK, BILLINGS	Yellowstone	01-Jan-1978	31-Dec-1978
111	0059	12136	2	Nickel (Tsp) Stp	CENTRAL PARK, BILLINGS	Yellowstone	01-Jan-1978	31-Dec-1978
111	0059	12136	1	Nickel (Tsp) Stp	CENTRAL PARK, BILLINGS	Yellowstone	01-Jan-1978	31-Dec-1980
111	0059	12164	1	Vanadium (Tsp) Stp	CENTRAL PARK, BILLINGS	Yellowstone	01-Jan-1978	31-Dec-1980
111	0059	12167	1	Zinc (Tsp) Stp	CENTRAL PARK, BILLINGS	Yellowstone	01-Jan-1978	31-Dec-1979
111	0059	12167	2	Zinc (Tsp) Stp	CENTRAL PARK, BILLINGS	Yellowstone	01-Jan-1978	31-Dec-1978
111	0059	12306	1	Nitrate (Tsp) Stp	CENTRAL PARK, BILLINGS	Yellowstone	01-Jan-1978	31-Dec-1980
111	0059	12403	1	Sulfate (Tsp) Stp	CENTRAL PARK, BILLINGS	Yellowstone	01-Jan-1978	31-Dec-1980
111	0059	12403	2	Sulfate (Tsp) Stp	CENTRAL PARK, BILLINGS	Yellowstone	01-Jan-1978	31-Dec-1978
111	0059	42401	1	Sulfur Dioxide	CENTRAL PARK, BILLINGS	Yellowstone	01-Jan-1978	31-Dec-1981

111	0059	42601	1	Nitric Oxide	CENTRAL PARK, BILLINGS	Yellowstone	01-Jan-1979	31-Dec-1980
111	0059	42602	1	Nitrogen Dioxide	CENTRAL PARK, BILLINGS	Yellowstone	01-Jan-1978	31-Dec-1980
111	0059	42603	1	Oxides Of Nitrogen	CENTRAL PARK, BILLINGS	Yellowstone	01-Jan-1979	31-Dec-1980
111	0059	43101	1	Total Hydrocarbons	CENTRAL PARK, BILLINGS	Yellowstone	01-Jan-1978	31-Dec-1979
111	0059	44201	1	Ozone	CENTRAL PARK, BILLINGS	Yellowstone	01-Jan-1978	31-Dec-1981
111	0059	61101	1	Wind Speed	CENTRAL PARK, BILLINGS	Yellowstone	01-Jan-1979	31-Dec-1980
111	0059	61102	1	Wind Direction	CENTRAL PARK, BILLINGS	Yellowstone	01-Jan-1979	31-Dec-1980
111	0059	64101	1	Barometric Pressure	CENTRAL PARK, BILLINGS	Yellowstone	01-Jan-1979	31-Dec-1980
111	0060	11101	1	Suspended Particulate (Tsp)	CENTRAL PARK	Yellowstone	01-Jan-1978	31-Dec-1978
111	0061	42101	1	Carbon Monoxide	METRA PARKING LOT,6TH AVE & EXPO DRIVE	Yellowstone	01-Jan-1980	31-Mar-1986
111	0061	42401	1	Sulfur Dioxide	METRA PARKING LOT,6TH AVE & EXPO DRIVE	Yellowstone	01-Jan-1981	31-Dec-1982
111	0061	42410	1	Sulfation Rate	METRA PARKING LOT,6TH AVE & EXPO DRIVE	Yellowstone	01-Jan-1984	31-Dec-1990
111	0061	61101	1	Wind Speed	METRA PARKING LOT,6TH AVE & EXPO DRIVE	Yellowstone	01-Jan-1980	31-Dec-1986
111	0061	61102	1	Wind Direction	METRA PARKING LOT,6TH AVE & EXPO DRIVE	Yellowstone	01-Jan-1980	31-Dec-1986
111	0062	11101	2	Suspended Particulate (Tsp)	TAFT SCHOOL, 623 S 25TH STREET	Yellowstone	01-Jan-1982	31-Dec-1985
111	0062	11101	1	Suspended Particulate (Tsp)	TAFT SCHOOL, 623 S 25TH STREET	Yellowstone	20-Jul-1980	31-Dec-1988
111	0062	42401	1	Sulfur Dioxide	TAFT SCHOOL, 623 S 25TH STREET	Yellowstone	24-Jul-1980	31-Dec-1983
111	0062	61101	1	Wind Speed	TAFT SCHOOL, 623 S 25TH STREET	Yellowstone	01-Jan-1980	31-Dec-1983
111	0062	61102	1	Wind Direction	TAFT SCHOOL, 623 S 25TH STREET	Yellowstone	01-Jan-1980	31-Dec-1983
111	0062	62101	1	Outdoor Temperature	TAFT SCHOOL, 623 S 25TH STREET	Yellowstone	01-Jan-1981	31-Dec-1983
111	0062	64101	1	Barometric Pressure	TAFT SCHOOL, 623 S 25TH STREET	Yellowstone	01-Jan-1980	31-Dec-1980
111	0063	42401	1	Sulfur Dioxide	SHAWNEE PARK	Yellowstone	01-Jan-1982	31-Dec-1982
111	0063	61101	1	Wind Speed	SHAWNEE PARK	Yellowstone	01-Jan-1982	31-Dec-1982
111	0063	61102	1	Wind Direction	SHAWNEE PARK	Yellowstone	01-Jan-1982	31-Dec-1982
111	0064	42401	1	Sulfur Dioxide	N JOHNSON LANE OLD HARDIN ROAD	Yellowstone	01-Jan-1982	31-Dec-1986
111	0064	61101	1	Wind Speed	N JOHNSON LANE OLD HARDIN ROAD	Yellowstone	01-Jan-1983	31-Dec-1986
111	0064	61102	1	Wind Direction	N JOHNSON LANE OLD HARDIN ROAD	Yellowstone	01-Jan-1983	31-Dec-1986
111	0065	11101	1	Suspended Particulate (Tsp)	LOCKWOOD COUNTY PARK	Yellowstone	01-Jan-1983	31-Dec-1987
111	0065	42401	1	Sulfur Dioxide	LOCKWOOD COUNTY PARK	Yellowstone	25-Sep-1981	31-Dec-1987
111	0065	42410	1	Sulfation Rate	LOCKWOOD COUNTY PARK	Yellowstone	01-Jan-1984	31-Dec-1990
111	0065	61101	1	Wind Speed	LOCKWOOD COUNTY PARK	Yellowstone	01-Jan-1981	31-Dec-1987
111	0065	61102	1	Wind Direction	LOCKWOOD COUNTY PARK	Yellowstone	25-Sep-1981	31-Dec-1987
111	0065	62101	1	Outdoor Temperature	LOCKWOOD COUNTY PARK	Yellowstone	01-Jan-1981	31-Dec-1987

111	0065	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	LOCKWOOD COUNTY PARK	Yellowstone	01-Dec-1990	11-Mar-1991
111	0066	42401	1	Sulfur Dioxide	COBURN ROAD	Yellowstone	01-Jan-1981	
111	0066	42401	2	Sulfur Dioxide	COBURN ROAD	Yellowstone	01-Jan-2002	01-Jan-2003
111	0066	42406	1	So2 Max 5-Min Avg	COBURN ROAD	Yellowstone	01-Nov-1988	31-Dec-2003
111	0066	42410	1	Sulfation Rate	COBURN ROAD	Yellowstone	01-Jan-1984	31-Dec-1990
111	0066	61101	1	Wind Speed	COBURN ROAD	Yellowstone	01-Jan-1981	
111	0066	61102	1	Wind Direction	COBURN ROAD	Yellowstone	01-Jan-1981	
111	0066	61106	1	Std Dev Hz Wind Direction	COBURN ROAD	Yellowstone	01-Jan-1981	
111	0066	62101	1	Outdoor Temperature	COBURN ROAD	Yellowstone	01-Oct-1984	
111	0067	11101	1	Suspended Particulate (Tsp)	SANDSTONE SCHOOL, 1440 NUTTER BLVD	Yellowstone	01-Jan-1983	31-Dec-1986
111	0067	42410	1	Sulfation Rate	SANDSTONE SCHOOL, 1440 NUTTER BLVD	Yellowstone	01-Jan-1984	31-Dec-1986
111	0072	11101	1	Suspended Particulate (Tsp)	GRAND AVENUE,1320 GRAND AVE,BILLINGS	Yellowstone	01-Jan-1986	31-Dec-1987
111	0072	42410	1	Sulfation Rate	GRAND AVENUE,1320 GRAND AVE,BILLINGS	Yellowstone	01-Jan-1986	31-Dec-1987
111	0072	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	GRAND AVENUE, 1320 GRAND AVE, BILLINGS	Yellowstone	13-Jun-1986	31-Dec-1987
111	0073	11101	1	Suspended Particulate (Tsp)	SCOTTISH RITES, CORNER 14TH AND TERRY	Yellowstone	23-Nov-1987	14-Sep-1989
111	0073	42401	1	Sulfur Dioxide	SCOTTISH RITES, CORNER 14TH AND TERRY	Yellowstone	23-Nov-1987	14-Sep-1989
111	0073	42406	1	So2 Max 5-Min Avg	SCOTTISH RITES, CORNER 14TH AND TERRY	Yellowstone	01-Jan-1989	14-Sep-1989
111	0073	42410	1	Sulfation Rate	SCOTTISH RITES, CORNER 14TH AND TERRY	Yellowstone	23-Nov-1987	14-Sep-1989
111	0073	44201	1	Ozone	SCOTTISH RITES, CORNER 14TH AND TERRY	Yellowstone	23-Nov-1987	14-Sep-1989
111	0073	61101	1	Wind Speed	SCOTTISH RITES, CORNER 14TH AND TERRY	Yellowstone	23-Nov-1987	14-Sep-1989
111	0073	61102	1	Wind Direction	SCOTTISH RITES, CORNER 14TH AND TERRY	Yellowstone	23-Nov-1987	14-Sep-1989
111	0073	61106	1	Std Dev Hz Wind Direction	SCOTTISH RITES, CORNER 14TH AND TERRY	Yellowstone	23-Nov-1987	14-Sep-1989
111	0073	62101	1	Outdoor Temperature	SCOTTISH RITES, CORNER 14TH AND TERRY	Yellowstone	23-Nov-1987	14-Sep-1989
111	0073	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	SCOTTISH RITES, CORNER 14TH AND TERRY	Yellowstone	01-Jan-1989	14-Sep-1989
111	0074	42101	1	Carbon Monoxide	METRA-6TH & EXPOSITION SE	Yellowstone	11-Jan-1988	31-Mar-1988
111	0074	61101	1	Wind Speed	METRA-6TH & EXPOSITION SE	Yellowstone	11-Jan-1988	30-Mar-1988
111	0074	61102	1	Wind Direction	METRA-6TH & EXPOSITION SE	Yellowstone	11-Jan-1988	30-Mar-1988
111	0074	61106	1	Std Dev Hz Wind Direction	METRA-6TH & EXPOSITION SE	Yellowstone	11-Jan-1988	21-Apr-1988
111	0075	42101	1	Carbon Monoxide	METRA, EXPO DR & 4TH AVE N, BILLINGS	Yellowstone	07-Oct-1988	16-Nov-1992
111	0075	61101	1	Wind Speed	METRA, EXPO DR & 4TH AVE N, BILLINGS	Yellowstone	05-Oct-1988	16-Nov-1992
111	0075	61102	1	Wind Direction	METRA, EXPO DR & 4TH AVE N, BILLINGS	Yellowstone	05-Oct-1988	16-Nov-1992
111	0075	61106	1	Std Dev Hz Wind Direction	METRA, EXPO DR & 4TH AVE N, BILLINGS	Yellowstone	05-Oct-1988	16-Nov-1992
111	0076	42401	1	Sulfur Dioxide	PONDEROSA SCHOOL, 4188 KING AVE EAST	Yellowstone	05-Oct-1989	30-Jun-1992

111	0076	42406	1	So2 Max 5-Min Avg	PONDEROSA SCHOOL, 4188 KING AVE EAST	Yellowstone	05-Oct-1989	30-Jun-1992
111	0076	61101	1	Wind Speed	PONDEROSA SCHOOL, 4188 KING AVE EAST	Yellowstone	04-Oct-1989	30-Jun-1992
111	0076	61102	1	Wind Direction	PONDEROSA SCHOOL, 4188 KING AVE EAST	Yellowstone	04-Oct-1989	30-Jun-1992
111	0076	61106	1	Std Dev Hz Wind Direction	PONDEROSA SCHOOL, 4188 KING AVE EAST	Yellowstone	04-Oct-1989	30-Jun-1992
111	0076	62101	1	Outdoor Temperature	PONDEROSA SCHOOL, 4188 KING AVE EAST	Yellowstone	04-Oct-1989	30-Jun-1992
111	0077	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	FEDERAL CREDIT UNION,2522-4TH AVE NORTH	Yellowstone	24-Nov-1989	05-Aug-1992
111	0077	81102	2	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	FEDERAL CREDIT UNION,2522-4TH AVE NORTH	Yellowstone	24-Nov-1989	31-Dec-1990
111	0078	42101	1	Carbon Monoxide	DIAMOND PARKING LOT, 315 N 27TH ST, BLGS	Yellowstone	01-Nov-1992	07-Apr-1994
111	0078	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	DIAMOND PARKING LOT, 315 N 27TH ST, BLGS	Yellowstone	01-Nov-1992	07-Apr-1994
111	0079	42101	1	Carbon Monoxide	MT OLIVE LUTHERAN CHURCH, 7-24TH ST W	Yellowstone	01-Nov-1992	01-Jul-1997
111	0079	42101	2	Carbon Monoxide	MT OLIVE LUTHERAN CHURCH, 7-24TH ST W	Yellowstone	02-Nov-2001	15-Jul-2004
111	0079	42401	2	Sulfur Dioxide	MT OLIVE LUTHERAN CHURCH, 7-24TH ST W	Yellowstone	02-Nov-2001	07-Sep-2004
111	0079	42401	3	Sulfur Dioxide	MT OLIVE LUTHERAN CHURCH, 7-24TH ST W	Yellowstone	01-Jan-2002	01-Jan-2003
111	0079	42401	1	Sulfur Dioxide	MT OLIVE LUTHERAN CHURCH, 7-24TH ST W	Yellowstone	01-Dec-1995	01-Jul-1997
111	0079	42406	1	So2 Max 5-Min Avg	MT OLIVE LUTHERAN CHURCH, 7-24TH ST W	Yellowstone	01-Dec-1995	01-Jul-1997
111	0079	42406	2	So2 Max 5-Min Avg	MT OLIVE LUTHERAN CHURCH, 7-24TH ST W	Yellowstone	02-Nov-2001	01-Jan-2004
111	0079	61101	1	Wind Speed	MT OLIVE LUTHERAN CHURCH, 7-24TH ST W	Yellowstone	01-Nov-1992	01-Jul-1997
111	0079	61102	1	Wind Direction	MT OLIVE LUTHERAN CHURCH, 7-24TH ST W	Yellowstone	01-Nov-1992	01-Jul-1997
111	0079	61106	1	Std Dev Hz Wind Direction	MT OLIVE LUTHERAN CHURCH, 7-24TH ST W	Yellowstone	01-Nov-1992	01-Jul-1997
111	0079	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	MT OLIVE LUTHERAN CHURCH, 7-24TH ST W	Yellowstone	01-Jul-1994	01-Jul-1997
111	0080	42401	1	Sulfur Dioxide	SACRIFICE CLIFF, 1600 METERS W COBURN RD	Yellowstone	19-May-1993	06-Jun-2001
111	0080	42406	1	So2 Max 5-Min Avg	SACRIFICE CLIFF, 1600 METERS W COBURN RD	Yellowstone	19-May-1993	06-Jun-2001
111	0080	61101	1	Wind Speed	SACRIFICE CLIFF, 1600 METERS W COBURN RD	Yellowstone	12-May-1993	06-Jun-2001
111	0080	61102	1	Wind Direction	SACRIFICE CLIFF,1600 METERS W COBURN RD	Yellowstone	12-May-1993	06-Jun-2001
111	0080	61106	1	Std Dev Hz Wind Direction	SACRIFICE CLIFF,1600 METERS W COBURN RD	Yellowstone	12-May-1993	06-Jun-2001
111	0081	42101	1	Carbon Monoxide	NORWEST, 130 NORTH 27TH STREET	Yellowstone	25-Apr-1994	02-Aug-1999
111	0081	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	NORWEST, 130 NORTH 27TH STREET	Yellowstone	01-Jul-1994	31-Dec-1997
111	0082	42101	1	Carbon Monoxide	BLGS BRIDAL SHOP 8 GRAND AVE	Yellowstone	11-Dec-1997	15-Jun-2004
111	0082	42401	1	Sulfur Dioxide	BLGS BRIDAL SHOP 8 GRAND AVE	Yellowstone	01-Jul-2001	15-Jun-2004
111	0082	42401	2	Sulfur Dioxide	BLGS BRIDAL SHOP 8 GRAND AVE	Yellowstone	01-Jan-2002	31-Dec-2002
111	0082	42406	1	So2 Max 5-Min Avg	BLGS BRIDAL SHOP 8 GRAND AVE	Yellowstone	01-Jul-2001	31-Dec-2003
111	0082	61101	1	Wind Speed	BLGS BRIDAL SHOP 8 GRAND AVE	Yellowstone	11-Dec-1997	01-Jan-1999
111	0082	61102	1	Wind Direction	BLGS BRIDAL SHOP 8 GRAND AVE	Yellowstone	11-Dec-1997	01-Jan-1999

111	0082	61106	1	Std Dev Hz Wind Direction	BLGS BRIDAL SHOP 8 GRAND AVE	Yellowstone	11-Dec-1997	01-Jan-1999
111	0083	42401	1	Sulfur Dioxide	LOWER COBURN ROAD - 300 COBURN ROAD	Yellowstone	12-Aug-1999	01-Jul-2003
111	0083	42401	2	Sulfur Dioxide	LOWER COBURN ROAD - 300 COBURN ROAD	Yellowstone	01-Jan-2002	31-Dec-2002
111	0083	42406	1	So2 Max 5-Min Avg	LOWER COBURN ROAD - 300 COBURN ROAD	Yellowstone	12-Aug-1999	01-Jul-2003
111	0084	42401	1	Sulfur Dioxide	BEARTOOTH ELEMENTARY SCHOOL	Yellowstone	29-Aug-2003	31-Dec-2006
111	0084	42406	1	So2 Max 5-Min Avg	BEARTOOTH ELEMENTARY SCHOOL	Yellowstone	29-Aug-2003	31-Dec-2006
111	0085	42101	1	Carbon Monoxide	CORNER 2ND AVE N. AND N 32ND ST.	Yellowstone	10-Sep-2004	
111	0085	88502	3	Accpt.PM25 AQI Spec.Mass	CORNER 2ND AVE N. AND N 32ND ST.	Yellowstone	19-Jun-2008	
111	0086	42601	1	Nitric Oxide	SHEPHERD BUS BARN	Yellowstone	01-Jun-2005	31-Dec-2007
111	0086	42602	1	Nitrogen Dioxide	SHEPHERD BUS BARN	Yellowstone	01-Jun-2005	31-Dec-2007
111	0086	42603	1	Oxides Of Nitrogen	SHEPHERD BUS BARN	Yellowstone	01-Jun-2005	31-Dec-2007
111	0086	44201	1	Ozone	SHEPHERD BUS BARN	Yellowstone	01-Jun-2005	30-Sep-2007
111	1001	11101	1	Suspended Particulate (Tsp)	LAUREL JR HIGH, 410 COLORADO AVE	Yellowstone	01-Jan-1971	31-Dec-1991
111	1001	42401	1	Sulfur Dioxide	LAUREL JR HIGH, 410 COLORADO AVE	Yellowstone	01-Jan-1973	31-Dec-1973
111	1001	42410	1	Sulfation Rate	LAUREL JR HIGH, 410 COLORADO AVE	Yellowstone	01-Jan-1978	31-Dec-1990
111	1003	42410	1	Sulfation Rate	ROUNDHOUSE ROAD, LAUREL	Yellowstone	01-Jan-1982	31-Dec-1990
111	1004	42410	1	Sulfation Rate	CITY SEWAGE TREATMENT PLAN, LAUREL	Yellowstone	01-Jan-1982	31-Dec-1986
111	1005	42401	1	Sulfur Dioxide	LAUREL WATER PLANT	Yellowstone	01-Jan-1976	31-Dec-1976
111	1005	42401	2	Sulfur Dioxide	LAUREL WATER PLANT	Yellowstone	01-Jan-1974	31-Dec-1976
111	1005	42410	1	Sulfation Rate	LAUREL WATER PLANT	Yellowstone	01-Jan-1978	31-Dec-1990
111	1006	42410	1	Sulfation Rate	W. LAUREL CHURCH, LAUREL	Yellowstone	01-Jan-1982	31-Dec-1990
111	1007	42410	1	Sulfation Rate	A&W ROOTBEER STAND, LAUREL	Yellowstone	01-Jan-1984	31-Dec-1986
111	1008	42401	1	Sulfur Dioxide	EAST OF LAUREL	Yellowstone	01-Jan-1973	31-Dec-1976
111	1008	42410	1	Sulfation Rate	EAST OF LAUREL	Yellowstone	01-Jan-1978	31-Dec-1986
111	1009	42401	5	Sulfur Dioxide	FARM EAST OF CENEX, LAUREL	Yellowstone	01-Jan-1977	31-Dec-1977
111	1009	42401	3	Sulfur Dioxide	FARM EAST OF CENEX, LAUREL	Yellowstone	01-Jan-1976	31-Dec-1980
111	1009	42401	2	Sulfur Dioxide	FARM EAST OF CENEX, LAUREL	Yellowstone	01-Jan-1976	30-Jun-1980
111	1009	42401	1	Sulfur Dioxide	FARM EAST OF CENEX, LAUREL	Yellowstone	01-Jan-1976	31-Dec-1977
111	1009	42410	1	Sulfation Rate	FARM EAST OF CENEX, LAUREL	Yellowstone	01-Jan-1978	31-Dec-1990
111	1009	43101	1	Total Hydrocarbons	FARM EAST OF CENEX, LAUREL	Yellowstone	01-Jan-1976	31-Dec-1976
111	1009	61101	1	Wind Speed	FARM EAST OF CENEX, LAUREL	Yellowstone	01-Jan-1976	31-Dec-1980
111	1009	61102	1	Wind Direction	FARM EAST OF CENEX, LAUREL	Yellowstone	01-Jan-1976	31-Dec-1980
111	1010	42410	1	Sulfation Rate	ROOT BEER STAND, LAUREL	Yellowstone	01-Jan-1984	31-Dec-1986

111	1014	11101	1	Suspended Particulate (Tsp)	LAUREL NEW FARM	Yellowstone	01-Jan-1981	31-Dec-1983
111	1014	42401	1	Sulfur Dioxide	LAUREL NEW FARM	Yellowstone	01-Nov-1980	31-Dec-1982
111	1014	61101	1	Wind Speed	LAUREL NEW FARM	Yellowstone	01-Nov-1980	31-Dec-1982
111	1014	61102	1	Wind Direction	LAUREL NEW FARM	Yellowstone	01-Nov-1980	31-Dec-1982
111	1065	42401	1	Sulfur Dioxide	BLAQTC - LOCKWOOD PARK, OLD HARDIN ROAD	Yellowstone	01-Nov-1987	
111	1065	42406	1	So2 Max 5-Min Avg	BLAQTC - LOCKWOOD PARK, OLD HARDIN ROAD	Yellowstone	01-Sep-1990	31-Mar-1991
111	1065	61101	1	Wind Speed	BLAQTC - LOCKWOOD PARK, OLD HARDIN ROAD	Yellowstone	01-Nov-1987	
111	1065	61102	1	Wind Direction	BLAQTC - LOCKWOOD PARK, OLD HARDIN ROAD	Yellowstone	01-Nov-1987	
111	1065	61106	1	Std Dev Hz Wind Direction	BLAQTC - LOCKWOOD PARK, OLD HARDIN ROAD	Yellowstone	01-Nov-1987	
111	1065	61120	1	Atmospheric Stability	BLAQTC - LOCKWOOD PARK, OLD HARDIN ROAD	Yellowstone	01-Nov-1987	
111	1065	62101	2	Outdoor Temperature	BLAQTC - LOCKWOOD PARK, OLD HARDIN ROAD	Yellowstone	29-Mar-2006	
111	1065	62101	1	Outdoor Temperature	BLAQTC - LOCKWOOD PARK, OLD HARDIN ROAD	Yellowstone	01-Nov-1987	28-Mar-2006
111	1065	68101	1	Sample Flow Rate- Cv	BLAQTC - LOCKWOOD PARK, OLD HARDIN ROAD	Yellowstone	01-Jan-1999	01-Jan-2007
111	1065	68102	1	Sample Volume	BLAQTC - LOCKWOOD PARK, OLD HARDIN ROAD	Yellowstone	01-Jan-1999	01-Jan-2007
111	1065	68103	1	Ambient Min Temperature	BLAQTC - LOCKWOOD PARK, OLD HARDIN ROAD	Yellowstone	01-Jan-1999	01-Jan-2007
111	1065	68104	1	Ambient Max Temperature	BLAQTC - LOCKWOOD PARK, OLD HARDIN ROAD	Yellowstone	01-Jan-1999	01-Jan-2007
111	1065	68105	1	Ambient Temperature	BLAQTC - LOCKWOOD PARK, OLD HARDIN ROAD	Yellowstone	01-Jan-1999	
111	1065	68106	1	Sample Min Baro Pressure	BLAQTC - LOCKWOOD PARK, OLD HARDIN ROAD	Yellowstone	01-Jan-1999	01-Jan-2007
111	1065	68107	1	Sample Max Baro Pressure	BLAQTC - LOCKWOOD PARK, OLD HARDIN ROAD	Yellowstone	01-Jan-1999	01-Jan-2007
111	1065	68108	1	Sample Baro Pressure	BLAQTC - LOCKWOOD PARK, OLD HARDIN ROAD	Yellowstone	01-Jan-1999	
111	1065	68109	1	Elapsed Sample Time	BLAQTC - LOCKWOOD PARK, OLD HARDIN ROAD	Yellowstone	01-Jan-1999	01-Jan-2007
111	1065	81102	1	PM <sub>10</sub> Total 0 <sub>10</sub> um Stp	BLAQTC - LOCKWOOD PARK, OLD HARDIN ROAD	Yellowstone	01-Jan-1996	28-Dec-2007
111	1065	82306	1	Nitrate PM <sub>10</sub> Stp	BLAQTC - LOCKWOOD PARK, OLD HARDIN ROAD	Yellowstone	01-Sep-1996	30-Jun-1997
111	1065	82403	1	Sulfate PM <sub>10</sub> Stp	BLAQTC - LOCKWOOD PARK, OLD HARDIN ROAD	Yellowstone	01-Sep-1996	30-Jun-1997
111	1065	85101	1	PM <sub>10</sub> - Lc	BLAQTC - LOCKWOOD PARK, OLD HARDIN ROAD	Yellowstone	01-Jan-1998	28-Dec-2007
111	1065	88101	1	PM <sub>2.5</sub> - Local Conditions	BLAQTC - LOCKWOOD PARK, OLD HARDIN ROAD	Yellowstone	01-Jan-1999	
111	2003	44201	1	Ozone	WORDEN OZONE, ROAD 21 NE OF WORDEN	Yellowstone	01-Jan-1978	31-Dec-1978
111	2004	42401	1	Sulfur Dioxide	BLAQTC - COULSON ROAD (3701 COULSON RD)	Yellowstone	01-Nov-1987	31-Dec-1989
111	2004	61101	1	Wind Speed	BLAQTC - COULSON ROAD (3701 COULSON RD)	Yellowstone	01-Nov-1987	31-Dec-1989
111	2004	61102	1	Wind Direction	BLAQTC - COULSON ROAD (3701 COULSON RD)	Yellowstone	01-Nov-1987	31-Dec-1989
111	2004	61106	1	Std Dev Hz Wind Direction	BLAQTC - COULSON ROAD (3701 COULSON RD)	Yellowstone	01-Nov-1987	31-Dec-1989
111	2004	61120	1	Atmospheric Stability	BLAQTC - COULSON ROAD (3701 COULSON RD)	Yellowstone	01-Nov-1987	31-Dec-1989
111	2004	62101	1	Outdoor Temperature	BLAQTC - COULSON ROAD (3701 COULSON RD)	Yellowstone	01-Nov-1987	31-Dec-1989

111	2005	42401	1 Sulfur Dioxide	BLAQTC-BRICKYARD LANE,1430 Lockwood Rd.	Yellowstone	26-Oct-1989	
111	2005	42406	1 So2 Max 5-Min Avg	BLAQTC-BRICKYARD LANE,1430 Lockwood Rd.	Yellowstone	01-Sep-1990	31-Mar-1991
111	2005	61101	1 Wind Speed	BLAQTC-BRICKYARD LANE,1430 Lockwood Rd.	Yellowstone	26-Oct-1989	
111	2005	61102	1 Wind Direction	BLAQTC-BRICKYARD LANE,1430 Lockwood Rd.	Yellowstone	26-Oct-1989	
111	2005	61106	1 Std Dev Hz Wind Direction	BLAQTC-BRICKYARD LANE,1430 Lockwood Rd.	Yellowstone	26-Oct-1989	
111	2005	61120	1 Atmospheric Stability	BLAQTC-BRICKYARD LANE,1430 Lockwood Rd.	Yellowstone	26-Oct-1989	
111	2005	62101	1 Outdoor Temperature	BLAQTC-BRICKYARD LANE,1430 Lockwood Rd.	Yellowstone	26-Oct-1989	19-Apr-2006
111	2005	62101	2 Outdoor Temperature	BLAQTC-BRICKYARD LANE, 1430 Lockwood Rd.	Yellowstone	20-Apr-2006	
111	2006	42401	1 Sulfur Dioxide	JOHNSON LANE, 627 JOHNSON LANE, BILLINGS	Yellowstone	02-Nov-1993	
111	2006	61101	1 Wind Speed	JOHNSON LANE, 627 JOHNSON LANE, BILLINGS	Yellowstone	02-Nov-1993	
111	2006	61102	1 Wind Direction	JOHNSON LANE, 627 JOHNSON LANE, BILLINGS	Yellowstone	02-Nov-1993	
111	2006	61106	1 Std Dev Hz Wind Direction	JOHNSON LANE, 627 JOHNSON LANE, BILLINGS	Yellowstone	02-Nov-1993	
111	2006	62101	1 Outdoor Temperature	JOHNSON LANE, 627 JOHNSON LANE, BILLINGS	Yellowstone	02-Nov-1993	
111	2007	42401	1 Sulfur Dioxide	PINE HILLS, 4250 PINE HILLS DRIVE	Yellowstone	02-Nov-1993	
111	2007	61101	1 Wind Speed	PINE HILLS, 4250 PINE HILLS DRIVE	Yellowstone	02-Nov-1993	
111	2007	61102	1 Wind Direction	PINE HILLS, 4250 PINE HILLS DRIVE	Yellowstone	02-Nov-1993	
111	2007	61106	1 Std Dev Hz Wind Direction	PINE HILLS, 4250 PINE HILLS DRIVE	Yellowstone	02-Nov-1993	
111	2007	62101	1 Outdoor Temperature	PINE HILLS, 4250 PINE HILLS DRIVE	Yellowstone	02-Nov-1993	
111	2008	42101	1 Carbon Monoxide	SENIOR HIGH 301 GRAND BLGS	Yellowstone	19-Dec-1995	01-Jul-1997
111	2008	42401	1 Sulfur Dioxide	SENIOR HIGH 301 GRAND BLGS	Yellowstone	26-Dec-1995	01-Jul-1997
111	2008	42406	1 So2 Max 5-Min Avg	SENIOR HIGH 301 GRAND BLGS	Yellowstone	26-Dec-1995	01-Jul-1997
111	2008	61101	1 Wind Speed	SENIOR HIGH 301 GRAND BLGS	Yellowstone	18-Dec-1995	01-Jul-1997
111	2008	61102	1 Wind Direction	SENIOR HIGH 301 GRAND BLGS	Yellowstone	18-Dec-1995	01-Jul-1997
111	2008	61106	1 Std Dev Hz Wind Direction	SENIOR HIGH 301 GRAND BLGS	Yellowstone	18-Dec-1995	01-Jul-1997
111	2008	62101	1 Outdoor Temperature	SENIOR HIGH 301 GRAND BLGS	Yellowstone	18-Dec-1995	01-Jul-1997

#### END OF APPENDIX B

## **APPENDIX C**

# AMBIENT AIR MONITORING DATA ANALYSIS



Figure C-1. Comparison of PM<sub>2.5</sub> 24-hr Design Values with exceptional events data included.



Figure C-2. Comparison of PM<sub>2.5</sub> annual Design Values with exceptional events data included.



Figure C-3. Comparison of PM<sub>2.5</sub> 24-hr Design Values with exceptional events data excluded.



C-5



Figure C-5. Comparison of PM<sub>10</sub> 24-Hr Design Values with exceptional events included



Figure C-6. Comparison of PM<sub>10</sub> 24-Hr Design Values with exceptional events excluded.



Figure C-9. Comparison of the 1-hr SO<sub>2</sub> Design Values.



Figure C10. Comparison of 8-hr O<sub>3</sub> Design Values.



Figure C-11. Comparison of the1-hr NO<sub>2</sub> Design Values.

## APPENDIX D

# AMBIENT AIR QUALITY STANDARDS

Pollutant [final rule cite]		Primary/ Secondary	Averaging Time	Level	Form
<u>Carbon Monoxide</u> [ <u>76 FR 54294, Aug 31, 2011]</u>		primary	8-hour	9 ppm	Not to be exceeded more than once per year
			1-hour	35 ppm	
<u>Lead</u> [ <u>73 FR 66964, Nov 12, 2008]</u>		primary and secondary	Rolling 3 month average	0.15 μg/m <sup>3 <u>(1)</u></sup>	Not to be exceeded
<u>Nitrogen Dioxide</u> [75 FR 6474, Feb 9, 2010] [61 FR 52852, Oct 8, 1996]		primary	1-hour	100 ppb	98th percentile of 1-hour daily maximum concentrations, averaged over 3 years
		primary and secondary	Annual	53 ppb <sup>(2)</sup>	Annual Mean
<u>Ozone</u> [80FR 65292, Oct. 26, 2015]		primary and secondary	8-hour	0.070 ppm <sup>(3)</sup>	Annual fourth-highest daily maximum 8-hr concentration, averaged over 3 years
Particle Pollution Dec 14, 2012	PM <sub>2.5</sub>	primary	Annual	12 µg/m³	annual mean, averaged over 3 years
		secondary	Annual	15 µg/m³	annual mean, averaged over 3 years
		primary and secondary	24-hour	35 µg/m³	98th percentile, averaged over 3 years
	PM <sub>10</sub>	primary and secondary	24-hour	150 μg/m³	Not to be exceeded more than once per year on average over 3 years
<u>Sulfur Dioxide</u> [ <u>75 FR 35520, Jun 22, 2010</u> ] [38 FR 25678, Sept 14, 1973]		primary	1-hour	75 ppb (4)	99th percentile of 1-hour daily maximum concentrations, averaged over 3 years
		secondary	3-hour	0.5 ppm	Not to be exceeded more than once per year

## **APPENDIX E**

# MONTANA DEMOGRAPHICS, CLIMATE AND TOPOGRAPHY



Figure G-1. The percent change in county populations in Montana from 2000 to 2010.



Figure G-2. The projected percent change in county populations in Montana from 2000 to 2030 maintaining the shift from east to west.



Figure G-3. Shaded relief map of wind speeds at 50 meters in Montana (source: MT State Library - Natural Resource Information System).



Figure G-4. Shaded relief map of terrain elevations in Montana (source: MT State Library - Natural Resource Information System).



Figure G-5. Map of the current ambient air monitoring site in Montana