5-3. OU III AR 609

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Operable Unit III Remedial Investigation

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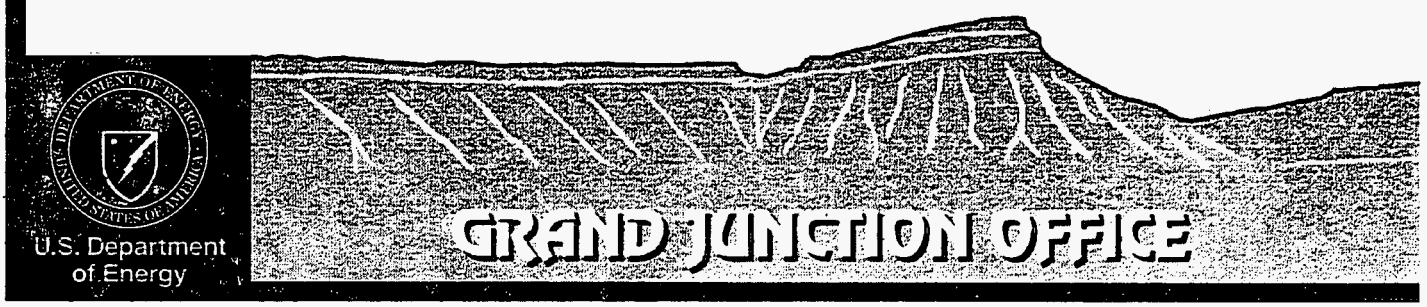

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Monticello Mill Tailings Site

Operable Unit III

Remedial Investigation

Volume II

September 1998

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Appendix A

Evaluation of Applicable or Relevant and Appropriate Requirements for OU III

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A1.0 Introduction

This Appendix presents an evaluation of applicable or relevant and appropriate requirements (ARARs) for Operable Unit (OU) III of the Monticello Mill Tailings Site (MMTS), Monticello, Utah. OU III of the MMTS addresses contaminated surface water and groundwater at and downgradient of the former millsite and contaminated soil and sediment deposited downstream of the millsite along Montezuma Creek.

The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) response action for OU III must comply with chemical-, location-, and action-specific ARARs and attain a degree of cleanup that ensures protection of human health and the environment. ARARs compliance must be met during the response as well as at its completion. Additionally, remedial actions that leave any hazardous substance, pollutant, or contaminant on site must meet a level or standard of control that at least attains standards, requirements, limitations, or criteria that are identified as applicable or relevant and appropriate for the site. Only substantive requirements must be met for on-site CERCLA activities; both substantive and administrative requirements must be met for off-site activities.

Chemical-specific ARARs set health- or risk-based concentration limits for particular hazardous substances or contaminants in air, soil, water, etc. The principal contaminants of concern at OU III are radioactive and nonradioactive substances associated with uranium and vanadium mill tailings. The contaminants of concern can have either carcinogenic or toxic effects in humans. Location-specific ARARs establish additional requirements on the basis of unique characteristics of a site that could be affected as a result of remedial action. These ARARs may be used to restrict or preclude certain activities or remedial actions on the basis of location or characteristics of a site. Action-specific ARARs are performance, design, and other requirements that control remedial activities or actions. These requirements are not concerned with contaminants present or with site characteristics/location but address how a selected remedial action alternative must be achieved. Action-specific requirements may specify particular performance levels, actions, or technologies, as well as specific levels (or a methodology for setting specific levels) for discharged or residual contaminants.

Section A2.0 of this ARARs evaluation addresses Federal ARARs for OU III. Section A3.0 addresses State of Utah ARARs for OU III. To Be Considered criteria are addressed in Section A4.0.

A2.0 Federal ARARs

This section addresses Federal requirements and identifies how each may pertain to OU III. A list of applicable or relevant and appropriate Federal requirements for OU III is presented in Table A1–1.

Table A1–1. Federal ARARs for OU III

Standard, Requirement, Criteria, or Limitation	Citation	Description	Status	Comment
Safe Drinking Water Act National Primary and Secondary Drinking Water Standards	42 USC 300(g) 40 CFR Part 141 40 CFR Part 143	Establishes health-based standards for public water systems (maximum contaminant levels [MCLs]).	Relevant and appropriate through the State of Utah Standards as a chemical-specific requirement.	Because the quality of the alluvial aquifer could allow it to be used as a drinking water aquifer, the MCLs may apply as clean-up standards.
Clean Water Act Water Quality Criteria	33 USC 1251-1376 40 CFR Part 131 Quality Criteria for Water	Criteria for States to set water quality standards on the basis of toxicity to aquatic organisms and human health.	Applicable through the State of Utah Standards as a chemical-, location-, and action-specific requirement.	Addresses Montezuma Creek contamination.
National Pollutant Discharge Elimination System	40 CFR Parts 122 through 125	Establishes standards for discharges of pollutants into waterways and through the use of underground injection wells.	Applicable through the State of Utah.	A point source effluent discharge into Montezuma Creek may be utilized dependent upon the selected water treatment technology. Potential stormwater discharges into Montezuma Creek must be controlled. Aquifer reinjection may occur as part of a treatment remedy.
Dredge or Fill Requirements (Section 404)	40 CFR Parts 230 and 231 33 CFR Part 323 40 CFR Part 404	Regulates the discharge of dredged or fill material into navigable waters and manages wetland areas.	Applicable as a location- and action-specific requirements.	Dredged or fill material requirements applicable through the State of Utah Standards. EPA has jurisdiction over wetlands at CERCLA sites in the State of Utah.
Clean Air Act National Primary and Secondary Ambient Air Quality Standards	42 USC 7401-7462 40 CFR Part 50	Establishes standards for ambient air quality to protect public health and welfare.	Applicable through the State of Utah Standards as a chemical-, location-, and action-specific requirement.	Seeks to protect and enhance the quality of the nation's air resources.

Table A1–1. Federal ARARs for OU III
(continued)

Standard, Requirement, Criteria, or Limitation	Citation	Description	Status	Comment
Resource Conservation and Recovery Act (RCRA)	42 USC 6901 40 CFR Parts 260-279	Regulates the generation, treatment, storage, and disposal of hazardous waste.	Applicable through the State of Utah Standards as a chemical-, location-, and action-specific requirement.	Hazardous waste is not known to exist within OU III. However, these regulations will apply if hazardous waste is generated during the OU III treatment process.
Uranium Mill Tailings Radiation Control Act (UMTRCA)	42 USC 2022, 42 USC 7901-7942 40 CFR Part 192	Establishes health-based ground water and mill tailings remediation standards for inactive uranium processing sites.	Relevant and appropriate chemical- and action-specific requirement.	Although the clean-up standards apply only to certain specifically designated sites where uranium was processed, the groundwater and mill tailings cleanup standards are relevant and appropriate to the OU III selected remedy because uranium and vanadium were processed at this site. Supplemental standards may be applied.
National Historic Preservation Act	16 USC 470 40 CFR 6.301(b)	Requires federal agencies to take into account the effect of any Federally assisted undertaking or licensing on a structure or object that is included on or eligible for the National Register of Historic Places.	Applicable location- and action-specific requirement for the OU III selected remedy.	Applies to any district, site, building, structure, or object listed on or eligible for the National Register of Historic Places.
Archeological and Historic Preservation Act	16 USC 469 40 CFR 6.301(c)	Establishes procedures to provide for preservation of historical and archeological data which might be destroyed through alteration of terrain as a result of a Federal construction project or a Federally licensed activity or program.	Applicable as a location- and action-specific requirement.	Applies if OU III activities affect the historical or archeological sites that have been identified near OU III.

Table A1–1. Federal ARARs for OU III
(continued)

Standard, Requirement, Criteria, or Limitation	Citation	Description	Status	Comment
Fish and Wildlife Coordination Act	16 USC 661-666 40 CFR 6.302(g)	Requires consultation when a Federal department or agency proposes or authorizes any modification of any stream or other water body; requires adequate provisions for protection of fish and wildlife resources.	Relevant and appropriate as a location- and action-specific requirement.	The Montezuma Creek channel may be modified during OU III activities, which may result in temporary habitat loss for wildlife species.
Endangered Species Act	16 USC 1531-1543 50 CFR Parts 17 & 402 40 CFR 6.302(h)	Requires that Federal agencies ensure that any action authorized, funded, or carried out by such agencies is not likely to jeopardize the continued existence of any threatened or endangered species or destroy or adversely modify critical habitat.	Applicable as a location- and action-specific requirement.	Currently threatened or endangered species or critical habitat have not been identified in OU III. Applies if remedial action will cause depletions in Montezuma Creek flow to the San Juan River greater than 100 acre-feet per year.
Floodplain/Wetlands Environmental Review	40 CFR Part 6, Appendix M	Establishes agency policy and guidance for carrying out the provisions of Executive Orders 11988 "Floodplain Management" and 11990 "Protection of Wetlands."	Applicable as a location- and action-specific requirement.	Remedial actions could affect site floodplains and/or wetlands.
National Environmental Policy Act	40 CFR 1500 10 CFR 1021	Requires that all Federally undertaken actions be assessed for potential environmental impacts. All potential environmental impacts must be properly mitigated.	Relevant and appropriate as a location- and action-specific requirement.	NEPA values have been and will be incorporated in the CERCLA documentation.

Safe Drinking Water Act

The requirements of this act and its corresponding regulations address public water systems. The requirements are implemented by the State of Utah through the federally approved program under the Safe Drinking Water Act. See the discussion in Section A3.0 (Drinking Water) for an ARARs determination.

Federal Water Pollution Control Act, as Amended by the Clean Water Act

Water Quality Criteria—The water quality criteria of this act and its corresponding regulations set water quality standards on the basis of toxicity to aquatic organisms and human health and manage stormwater runoff discharges. The requirements are implemented by the State of Utah through Federally approved programs under the Clean Water Act. See the corresponding discussions in Section A3.0 (Water Quality Rules; Standards for Quality for Water of the State; Groundwater Quality Protection; Underground Injection Control Program; and Utah Pollutant Discharge Elimination System) for ARARs determinations.

Dredge or Fill Requirements (Section 404)—The provisions of 40 CFR 230 and 231 and 33 CFR 323 regulate activities associated with discharging dredged or fill material into waters of the U.S. Navigable waters and isolated wetlands are protected under the jurisdiction of the U.S. Corps of Engineers (COE); a general permit (GP–40) was issued by the COE to the State of Utah authorizing the State Engineer to regulate the discharge of dredged or fill material into Utah streams. See the discussion in Section A3.0 for an ARARs determination.

The discharge of dredged or fill material into waters of the U.S. (including wetland areas) is regulated by the EPA rather than the COE for CERCLA sites. Wetland areas have been identified and delineated throughout OU III. Guidelines of the *Monticello Wetlands Master Plan* (DOE 1996), which was developed to adhere to these applicable location- and action-specific requirements, and which has been approved by EPA, will be followed for any wetland area disturbance, remediation, and restoration activities that occur in association with the selected OU III remedy.

Clean Air Act

The requirements of this act and its corresponding regulations seek to protect and enhance the quality of the nation's air resources in order to promote public health and welfare and the productive capacity of the nation's population. The requirements are implemented by the State of Utah through the federally approved program under the Clean Air Act. See the discussion in Section A3.0 (Air Quality) for an ARARs determination.

Resource Conservation and Recovery Act

The requirements of this act and its corresponding regulations address the generation and management of hazardous waste [Resource Conservation and Recovery Act (RCRA) Subpart C], and the management of underground storage tanks containing regulated substances (RCRA Subpart I). The requirements are implemented by the State of Utah through the federally

approved program under RCRA, as amended. See the discussion in Section A3.0 for an ARARs determination.

Uranium Mill Tailings Radiation Control Act

The requirements of this act and its corresponding regulations, promulgated at 40 CFR Part 192, are not applicable because the site does not meet the statutory or jurisdictional prerequisites that are applicable only to 24 specifically identified inactive uranium mill and tailings sites. However, these requirements are relevant and appropriate for the selected OU III remedy because mill tailing contaminants have been dispersed into the environment. Included in these requirements are the cleanup standards for remedial actions at inactive uranium processing sites with groundwater contamination and the process for determining and implementing alternate concentration limits (alternate cleanup standards).

Also included are requirements for radium-226 (Ra-226) cleanup standards for land, and radon decay products and gamma radiation cleanup standards for buildings. Additionally, 40 CFR 192.21 addresses criteria for which these cleanup standards can be changed to supplemental standards, as specified at 40 CFR 192.22. The supplemental standards criteria include the following:

- If the existing 40 CFR 192 cleanup standards pose a clear and present risk of injury to workers or to the public.
- If the existing 40 CFR 192 cleanup standards directly produce health and environmental harm that is clearly excessive compared to the health and environmental benefits, now or in the future.
- The estimated cost of remedial action to satisfy the existing 40 CFR 192 cleanup standards at a vicinity site is unreasonably high relative to the long-term benefits, and the residual radioactive materials do not pose a clear present or future hazard.
- The cost of a remedial action for cleanup of a building using the existing 40 CFR 192 cleanup standards is clearly unreasonably high relative to the benefits.
- There is no known remedial action.
- The groundwater meets the criteria of 40 CFR 192.11(e).
- Radionuclides other than Ra-226 and its decay products are present in sufficient quantity and concentration to constitute a significant radiation hazard from residual radioactive materials.

Therefore, these Federal requirements are relevant and appropriate chemical- and action-specific requirements for the OU III selected remedy.

National Historic Preservation Act

The regulations implementing this act and its corresponding regulations at 40 CFR 6.301(b) require Federal agencies to take into account the effect of any Federally assisted undertaking or licensing on a structure or object that is included on or eligible to the National Register of Historic Places (NRHP). Because structures or objects exist near OU III for which a determination of NRHP eligibility has not been made, these Federal requirements are applicable location- and action-specific requirements for the OU III selected remedy.

Archaeological and Historical Preservation Act

This act and its corresponding regulations establish procedures to provide for the preservation of historical and archaeological resources that may be destroyed through alteration of terrain as a result of a Federal construction project or a Federally licensed activity or program. On the basis of recent archaeological survey results, which identify regulated resources near OU III, these Federal regulations are considered applicable action- and location-specific requirements for remedial activities associated with OU III.

Fish and Wildlife Coordination Act

This act and its corresponding regulations require consultation with the U.S. Fish and Wildlife Service whenever a Federal department or agency proposes or authorizes modification of any stream or other body of water and requires adequate provisions for the protection of fish and wildlife resources. Recent fauna surveys identified no fish in Montezuma Creek within OU III but showed that there may be temporary short-term loss of habitat for wildlife if the Montezuma Creek channel is modified. Because the Montezuma Creek channel may be temporarily disturbed, these Federal requirements are relevant and appropriate location- and action-specific requirements for the OU III selected remedy.

Endangered Species Act

This act and its corresponding regulations require that Federal agencies ensure that any action authorized, funded, or carried out by such agencies is not likely to jeopardize the continued existence of any threatened or endangered species or destroy or adversely modify critical habitat required for the continued existence of that species. DOE currently is conducting surveys to determine if threatened or endangered species are present in Montezuma Creek. To date, no threatened or endangered species were identified at or near the MMTS or within OU III; however, these requirements are applicable location- and action-specific Federal requirement if threatened or endangered species are identified. DOE has calculated potential depletions in flow to the San Juan River (to which the Montezuma Creek is tributary) that could result from re-routing Montezuma Creek or interrupting groundwater recharges to the creek during implementation of the selected remedies for the Millsite. Flows to the San Juan River are protected under this act because endangered fish reside in the river. Results of the calculations indicate that current remediation activities at the Millsite do not result in a significant depletion in flow to the San Juan River. DOE is committed to designing its response action for OU III to ensure less than 100 acre-feet per year depletion of flow to the San Juan River.

Bald and Golden Eagle Protection Act

This act and its corresponding regulations, which are administered by the U. S. Fish and Wildlife Service, provide for the preservation of the bald and golden eagle through the protection of the individual raptor and its progeny. On the basis of survey information, neither bald nor golden eagles reside at or near the MMTS. Therefore, these Federal requirements are not applicable nor relevant and appropriate to the implementation of the OU III selected remedy.

Executive Orders 11988 – ("Floodplain Management") and 11990 – ("Protection of Wetlands")

These Presidential orders and their corresponding regulations require Federal agencies to evaluate actions they may take to avoid, to the maximum extent possible, adverse impacts associated with direct and indirect development of a floodplain or wetland. The 10 CFR 1022 Floodplain/Wetlands Environmental Review Requirements were issued to implement the requirements of Executive Orders 11988 and 11990. Activities associated with the OU III remedy may affect site floodplains and wetlands. Therefore, these orders and their corresponding regulations are applicable Federal location- and action-specific requirements.

Farmland Protection Policy Act

The purpose of this act and its corresponding regulations is to minimize the extent to which Federal programs contribute to the unnecessary and irreversible conversion of prime, unique, or important farmlands to nonagricultural uses. This requirement is administered through the U.S. National Resource Conservation Service. Because prime, unique, or important farmlands are not located within OU III, these Federal requirements are not applicable nor relevant and appropriate to the selected OU III remedy.

National Environmental Policy Act (NEPA)

The National Environmental Policy Act (NEPA) and its corresponding regulations are relevant and appropriate location- and action-specific Federal requirements for all Federally funded projects and programs, including any activities occurring in association with the OU III selected remedy. Additional guidance that would be considered under NEPA includes the Council on Environmental Quality Regulations, 40 CFR Part 1500; DOE NEPA regulations, 10 CFR 1021; DOE Order 451.1 (*Implementation of NEPA*); and *Secretarial Policy Statement on the National Environmental Policy Act* (issued June 1994). NEPA values have been and will be incorporated in the CERCLA documentation.

A3.0 State of Utah ARARs

Because the MMTS is located in Utah, compliance with all State of Utah-specific environmental rules, regulations, standards, criteria, or limitations that are applicable or relevant and appropriate to OU III is mandatory. This section addresses State of Utah requirements and identifies how each may pertain to OU III. It is understood that the authorization process for allowing a State to implement a Federal program is generally a phased process. Because of this, the State of Utah may not have adopted a specific rule or portion of a regulatory program. In such instances, if a

non-adopted rule or regulation in a State-implemented program is an ARAR, the Federal standards will apply. A list of applicable or relevant and appropriate State of Utah requirements for OU III is presented in Table A1–2.

Drinking Water

Drinking Water Rules—These rules represent the State's implemented version of the Federal Safe Drinking Water Act's National Primary and Secondary Drinking Water Regulations, which contain criteria and procedures to ensure a supply of drinking water that dependably complies with maximum contaminant levels. They include quality control and testing procedures that ensure proper operation and maintenance of a potable public water supply system; specify the minimum quality of water that may be taken into the system; and provide siting requirements for new facilities for public water systems. They also establish maximum contaminant levels which may be considered when establishing cleanup standards. Because the alluvial aquifer is not used as a public water supply system, these requirements are not applicable. However, because the alluvial aquifer is of a quality that would allow it to be used as a drinking water source, the *Utah Drinking Water Rules* are relevant and appropriate chemical-specific requirements for the OU III selected remedy.

Water Quality

This is the State-implemented version of the Federal Clean Water Act program.

Water Quality Rules—The definitions for water pollution and the general requirements are applicable chemical-, location-, and action-specific requirements for the selected OU III remedy.

Standards for Quality for Water of the State—The Clean Water Act provides criteria for states to set water quality standards on the basis of toxicity to aquatic organisms and human health. These rules are specific to Utah waters and are applicable chemical-, location-, and action-specific requirements for the selected OU III remedy.

Utah Pollutant Discharge Elimination System (UPDES)—The UPDES rules address point-source discharges of pollutants and stormwater runoff discharges into Utah waterways. They also address the use of injection wells (i.e., underground discharges of water) through the Underground Injection Control Program. These rules are applicable chemical-, location-, and action-specific State of Utah requirements if a point-source discharge into Montezuma Creek is used in association with a water treatment technology. These rules are also applicable location- and action-specific State of Utah requirements for controlling stormwater runoff associated with construction activities. Additionally, the rules associated with the Underground Injection Control Program are applicable chemical- and action-specific State of Utah requirements for the use of Class V Injection Wells if aquifer reinjection is included in the selected remedy for OU III.

Table A1–2. State of Utah ARARs for OU III

Department/Division	Subject	Statute	Rule	Comments
Department of Environmental Quality, Division of Drinking Water	Safe Drinking Water Rules	Title 19, Chapter 4, U.C.A.	R309, U.A.C.	This is the State of Utah implemented Safe Drinking Water Act program. The quality of the alluvial aquifer could allow it to be used as a drinking water aquifer. Relevant and appropriate chemical-specific requirement.
Department of Environmental Quality, Division of Water Quality	Definitions and General Requirements	Title 19, Chapter 5, U.C.A.	R317-1, U.A.C.	Applicable chemical-, location-, and action-specific requirement.
	Standards for Quality for Waters of the State	Title 19, Chapter 5, U.C.A.	R317-2, U.A.C.	These rules are specific to Utah waters, though they are derived in part by using Federal criteria. See particularly the nondegradation policy in R317-2-3. Applicable chemical-, location-, and action-specific requirement.
	Ground-Water Quality Protection	Title 19, Chapter 5, U.C.A.	R317-6, U.A.C.	There is no corresponding Federal program. Applicable chemical- and action-specific requirement.
	Utah Underground Injection Control	Title 19, Chapter 5, U.C.A.	R317-7, U.A.C.	Applicable chemical- and action-specific requirement if Class V Injection Wells are used in association with a water treatment technology.
	Utah Pollutant Discharge Elimination System	Title 19, Chapter 5, U.C.A.	R317-8, U.A.C.	Applicable chemical-, location-, and action-specific requirement if a point-source effluent discharge into Montezuma Creek is used in association with a water treatment technology. Applicable location- and action-specific requirement; potential stormwater runoff into Montezuma Creek needs to be controlled.

Table A1–2. State of Utah ARARs for OU III (continued)

Department/Division	Subject	Statute	Rule	Comments
Department of Environmental Quality, Division of Air Quality	Utah Air Conservation Rules	Title 19, Chapter 2, U.C.A.	R307-1 and R307-12, U.A.C.	This is the State of Utah-implemented National Primary and Secondary Ambient Air Quality Standards program. These rules are applicable through the State of Utah Standards as a chemical-, location-, and action-specific requirement. This provision is applicable in association with controlling point-source air emissions from OU III treatment technologies. R317-1-3, in particular, specifies general air pollution requirements that must be met at all facilities. Also applicable is the provision associated with controlling fugitive dust emissions from OU III.
Department of Environmental Quality, Division of Radiation Control	Radioactive Material Management	Title 19, Chapter 3, U.C.A.	R313-12, R313-15-301, R313-19 through R313-22, and R313-25-18 through R313-25-22, U.A.C.	These provisions address the safe management, including disposal, of radioactive material. They also address standards for protection against radiation and licensing requirements. These State requirements are applicable chemical- and action-specific requirements.
Department of Environmental Quality, Division of Solid and Hazardous Waste	Hazardous Waste Management Rules (RCRA Subpart C)	Title 19, Chapter 6, Part 1, U.C.A.	R315, U.A.C.	These rules are applicable chemical-, location-, and action-specific requirements through the State of Utah Standards; hazardous waste is not known to exist within OU III. Hazardous waste may be generated or managed in association with implementing the selected OU III remedy (e.g., water treatment process wastes).
Department of Environmental Quality, Division of Environmental Response and Remediation	Corrective Action Cleanup Standards Policy for CERCLA and Underground Storage Tank Sites	Title 19, Chapter 6, Part 1, U.C.A.	R311-211, U.A.C.	Remediation strategy must achieve compliance with this policy that sets forth criteria for establishing cleanup standards and requires source control or removal, and prevention of further degradation. This rule is an applicable chemical-, location-, and action-specific State requirement.

Table A1–2. State of Utah ARARs for OU III (continued)

Department/Division	Subject	Statute	Rule	Comments
State Engineer	Dredge or fill requirements including stream channel alteration.	73-3-29, U.C.A.	R655, U.A.C.	Applicable as a chemical-, location-, and action-specific requirement.
Department of Natural Resources Division of Water Rights	Well drilling standards (standards for drilling and abandonment of wells)	73-3-25(2)(b), U.C.A.	R655-4, U.A.C.	Includes such requirements as performance standards for casing joints and requirements for abandoning a well. Also included are water rights issues associated with consumptive use. This law is applicable to all drilling anticipated for any of the alternatives and for any planned water use. Applicable action- and location-specific requirement.
Department of Administrative Services Division of State History	Protection of archaeological, anthropological resources.	63-18-18, U.C.A. 9-8-501 to 9-8-506, U.C.A.	R212, U.A.C.	Section 63-18-18, U.C.A., states legislative interest in preservation of archaeological, anthropological and paleontological resources. Section 63-18-25, U.C.A., addresses historical resources on State lands, and Section 63-18-37, U.C.A. addresses projects by State agencies. Applicable location- and action-specific requirement.

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Groundwater Quality Protection—Utah-specific groundwater protection standards are addressed by this rule. An equivalent Federal program does not exist. These groundwater rules are applicable chemical-, location-, and action-specific State of Utah requirements for the selected OU III remedy.

Dredge or Fill Requirements (Section 404)—These rules, which are implemented by the State Engineer, are applicable location- and action-specific requirements for any dredge or fill activities in Montezuma Creek, including stream channel alterations, associated with the selected OU III remedy.

Air Quality

The *Utah Air Conservation Rules* address the prevention and control of air pollution sources in Utah and establish air quality emission standards and monitoring requirements. Because air emissions may occur as part of OU III water treatment technologies, and because fugitive dust could be generated through the clearing of land, remediation of soil and sediment, use of construction equipment and the construction and use of haul roads, the State-implemented version of the Federal National Primary and Secondary Ambient Air Quality Standards (NAAQA) program, which establish standards for ambient air quality, and the National Emission Standards for Hazardous Air Pollutants (NESHAPs) program, which establish standards for new stationary sources, are applicable chemical-, location-, and action-specific State of Utah requirements for the selected OU III remedy.

Utah Hazardous Waste and Underground Storage Tank Management

Subpart C of RCRA addresses the generation, treatment, storage, disposal, and transportation of hazardous waste. 40 CFR 261.4(a)(4) excludes mill tailings (source, special nuclear, or by-product material, as defined by the Atomic Energy Act of 1954) from meeting the definition of a hazardous waste. Subpart I of RCRA regulates underground storage tanks (USTs) which are used to store regulated substances. Based on historical land use knowledge and field investigations, it is very unlikely that hazardous waste or USTs will be encountered within OU III. However, hazardous waste may be generated during the implementation of the OU III selected remedy (e.g., waste treatment process wastes). Therefore, the hazardous waste rules are applicable chemical-, location-, and action-specific State of Utah requirements if hazardous waste is discovered or generated. To the extent possible, hazardous waste will be managed in accordance with the *Monticello Remedial Action Project, Special Waste Management Plan for the Monticello Mill Tailings Site and Vicinity Properties* (DOE 1997). The State UST requirements are not applicable nor relevant and appropriate to the OU III selected remedy.

Corrective Action Cleanup Standards Policy for CERCLA and Underground Storage Tank Sites

This is a Utah-specific requirement that establishes a cleanup standards policy for CERCLA and UST sites. The policy sets forth criteria for establishing cleanup standards and requires source control or removal, and prevention of further degradation. This policy is an applicable chemical-, location-, and action-specific State requirement for the selected OU III remedy.

Radiation Control

These State of Utah rules address the management, including disposal and transporation, of radioactive materials. They also address standards for protection against radiation and licensing requirements. These rules are applicable chemical- and action-specific State of Utah requirements for the OU III selected remedy.

Utah State History

These requirements address the protection of archaeological, anthropological, and paleontological resources on State lands and/or associated with projects conducted or approved by State agencies. These location- and action-specific State of Utah requirements are applicable to activities associated with the OU III selected remedy.

Water Rights

These requirements, which include well drilling and abandonment standards, and consumptive use of water not already permitted to OU I, are applicable action- and location-specific State of Utah requirements for the OU III selected remedy.

A4.0 To Be Considered Criteria

In addition to the legally binding laws and regulations discussed in Sections A2.0 and A3.0, environmental and public health programs also develop criteria, advisories, guidance, and proposed standards that are not legally binding, but that may provide useful information and recommended procedures. This section addresses such "To Be Considered" criteria that may be useful to help set cleanup level targets and to ensure that the selected OU III remedy is protective of human health and the environment.

EPA Radiation Site Cleanup Regulations

Previously proposed 40 CFR 196 regulations established environmental standards for the remediation of sites under the control of Federal Agencies possessing or using radioactive material. The standards were to have been met before the site could be released from control. The standards required that for 1,000 years after completion of the remedial action, radioactive material could not exceed concentrations that could cause any reasonably maximally exposed member of the public to receive, through all potential pathways under a rural residential land use exposure scenario, an effective dose equivalent of 15 mrem per year. They also allowed for the use of passive remedies (i.e., institutional controls) on a site-specific basis. Although these regulations were withdrawn by the U.S. Office of Management and Budget before they could be promulgated, they are identified as To Be Considered criteria for the OU III selected remedy.

10 CFR 834

Previously proposed 10 CFR 834 requirements set 100 mrem per year as the radiological site cleanup standard and required the application of As Low As Reasonably Achievable (ALARA)

programs and practices. Although these regulations were withdrawn by the U.S. Office of Management and Budget before they could be promulgated, they are identified as To Be Considered criteria for the OU III selected remedy.

DOE's Guidelines for Residual Radioactive Material–Hot Spot Management Criteria

These radiologic protection guidelines establish hot-spot criteria for cleanup of residual radioactive material and management criteria for the resultant wastes and residues (U.S. Department of Energy *Guidelines for Residual Radioactive Material at Formerly Utilized Sites Remedial Action Program and Remote Surplus Facilities Management Program* [Revision 2, March 1987]). The DOE's hot-spot criteria may be used for the Montezuma Creek radioactively contaminated soil and sediment remediation in a specified area when the applicable cleanup standards are exceeded by a certain factor. This guideline has been used at other sites in and near Monticello that are being remediated under CERCLA. The approach for determining the site-specific hot-spot criteria, referred to above, is identified as To Be Considered criteria for the OU III selected remedy.

Radiological Criteria for License Termination

In the Federal Register, Volume 62, July 21, 1997, the Nuclear Regulatory Commission (NRC) revised several regulations (10 CFR Parts 20, 30, 40, 50, 51, 70, and 72) to provide specific radiological criteria for the decommissioning of lands and structures at NRC licensed facilities and facilities subject to NRC's jurisdiction. They established a dose of 25 mrem/yr (from all man-made sources, excluding medical) as an acceptable criterion for release of any site for unrestricted use without further analysis of the potential for exposures from other man-made sources. The 25 mrem/yr dose will be a To Be Considered criteria used as a benchmark to evaluate the protectiveness of the alternatives developed in subsequent sections of this report.

A5.0 References

U.S. Department of Energy, 1996. *Monticello Wetlands Master Plan*, prepared by RUST Geotech, Inc., for the U.S. Department of Energy Grand Junction Office, Grand Junction, Colorado, March.

———, 1997. *Monticello Remedial Action Project, Special Waste Mangement Plan for the Monticello Mill Tailings Site and Vicinity Properties*, P–GJPO–913, prepared by MACTEC–ERS, for the U.S. Department of Energy Grand Junction Projects Office, Grand Junction, Colorado.

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Appendix B

Previous Investigations—Summary

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B1.0 Introduction

This Appendix summarizes environmental investigations conducted at or near OU III before the OU III RI began in November 1992. The appendix is divided into two subsections: (1) Pre-1979 Investigations and (2) 1979–October, 1992 Investigations. Studies performed to assess surface water, groundwater, soil and sediment, and ecological conditions in the vicinity of the MMTS are summarized for each time period. The summaries address scope, investigative activities, data limitations, and reported findings.

B1.1 Pre-1979 Investigations

Environmental investigations have been conducted at and near OU III since the early 1950s. Investigations performed before 1979 focused primarily on surface-water quality in Montezuma Creek and to a lesser degree on groundwater quality in the alluvial aquifer. Soil, sediment, and biota studies were not implemented until the 1980s. Although documentation of pre-1979 studies is limited and the data cannot be qualified in accordance with today's standards, the results provide qualitative information pertinent to the OU III RI.

Before the mill closed in 1960, investigations primarily studied the impacts to surface-water quality in Montezuma Creek as a result of milling operations, stream overflow, and seepage from tailings ponds and piles. Those early investigations assessed impacts to the surface water and groundwater largely on the basis of uranium concentrations and Ra-226 activity in samples collected upgradient and downgradient of the millsite.

As early as 1950, radium levels in Montezuma Creek were known to be increasing as a result of uranium milling. In 1955, Public Health Service workers noted that streamflows consisted mostly of overflow and seepage from the tailings ponds and measured a Ra-226 activity of 160 picocuries per liter (pCi/L) in a water sample from Montezuma Creek below the mill (Tsivoglou et al. 1956; Tsivoglou 1964; Whitman and Beverly 1958). It was also known by 1954 that effluent releases from the mill contributed salts and other soluble contaminants to the creek. Water samples collected from March 1956 to March 1959 indicated higher pH values and elevated concentrations of total dissolved solids (TDS), sodium, carbonates and bicarbonates, sulfates, and chlorides in the stream water below the mill.

Between 1960 and 1979, surface-water samples were occasionally collected from Montezuma Creek to continue to assess site impacts to surface-water quality. Some groundwater sampling was also performed during this period; groundwater samples were collected from private irrigation and stock-water supply wells in the vicinity of the millsite. A Bendix environmental assessment report (Bendix 1980) noted an increase in uranium and radium concentrations in Montezuma Creek as a result of the facility. That determination was made on the basis of analytical data obtained from upstream and downstream monitoring locations between November 1975 and August 1979. The Bendix report also noted an indication of groundwater contamination downgradient (east) of the millsite. Groundwater contamination was reported on the basis of samples collected from the "Sorenson" well, a shallow irrigation and stock-water supply well located approximately 0.5 mile east of the millsite.

A field inspection of the millsite was performed on May 17, 1978. Findings of the inspection were reported in the 1979 *Environmental Assessment Report* (Bendix 1980) and included the following:

- Vegetative covers on the tailings piles (Carbonate, Vanadium, East, and Acid Piles) were well established with little evidence of gullying or erosion.

- At the Carbonate and East Piles, there were sites at which tailings had been brought to the surface apparently by burrowing animals.

- Surface water appeared to be infiltrating through the Vanadium Pile from a small diversion ditch on the north side of the pile, through the East Pile from ponded water on the northern portion of the pile, and through the Acid Pile from a small holding pond on the east flank of the pile.

- Seeps along the southern margins of the Vanadium and Carbonate Piles and the east flank of the Acid Pile indicated that groundwater was moving laterally through the piles toward Montezuma Creek.

B1.2 Investigations—1979–October, 1992

Environmental investigations performed between 1979 and October, 1992 were much more comprehensive, coordinated, and routine than the earlier studies. This is largely attributed to the establishment of the Monticello Remedial Action Project in 1980. As a result, information generated during those studies is better documented, and the results are easier to qualify against today's standards. However, results of the studies conducted during that period must be used with some caution. Documentation of field procedures and quality assurance/quality control (QA/QC) protocols is not sufficient for information generated before 1984; therefore, those data are considered useful only in the qualitative sense. Data generated between 1984 and 1992 are considered suitable for quantitative assessment; however, the data were collected and analyzed using procedures and QA/QC protocols that in some cases differ from those used during the RI. Data verification and validation was not performed on analytical data generated before initiation of the OU III RI in 1992 because much of the data lacked sufficient documentation.

Routine monitoring of surface water and groundwater from 1979 to 1992 is documented in annual environmental monitoring reports for those years. The reports include Bendix (1980); Korte and Thul (1981, 1982, 1983, 1984); Korte and Wagner (1985, 1986); Sewell and Spencer (1987); and DOE (1988, 1989, 1990a, 1991a, 1992). A comprehensive description of surface water, groundwater, soil, and sediment studies completed before 1989 is presented in the *Final Remedial Investigation/Feasibility Study-Environmental Assessment for the Monticello, Utah, Uranium Tailings Site* (RI/FS–EA) (DOE 1990b). Additional reports documenting results obtained during that time period are noted in the following discussions.

B1.2.1 Surface-Water Investigations

Routine monitoring of surface-water quality began in 1979. The goals of the post-1979 monitoring program were (1) to compare water quality in Montezuma Creek upstream from the millsite with that at the millsite and downstream, (2) to characterize the type and extent of contamination in surface waters, and (3) to assess compliance with surface-water quality standards. The program evolved in several steps over time:

- **1979.** DOE established surface-water sampling stations at three locations: W–3 at the upstream limit of the former millsite (but east of Highway 191), W–2 at a seep on the millsite itself, and W–4 about 700 ft downstream from the millsite. The constituents monitored included Ra-226, metals, nitrates, and major anions.

- **1981–1983.** DOE added a fourth station (the Sorenson site), about 1.3 miles downstream from the millsite, to the sampling network in 1981. In addition, on-site seeps, nearby ponds, and other locations were sampled to better define surface-water contamination downgradient of the millsite and to evaluate the validity of site W–3 as a background sampling station. However, not all sites were routinely monitored thereafter. The Montezuma Canyon site, near the confluence of Montezuma and Verdure Creeks, about 5 miles downstream from the millsite, was one of the surface-water monitoring stations established during that time.

- **1984–1986.** Ten sites were sampled at varying frequencies.

- **1987–1991.** Monitoring was scaled back from the previous program with the intent of detecting only major changes in water chemistry. The new goals of the monitoring program were (1) to verify compliance with State surface-water quality standards, and (2) to detect changes in water quality after the start of remedial action.

The early investigations identified several relationships between contaminant sources on and near the millsite and water quality in the receiving stream. Those relationships included the following:

- Although the major sources of contamination are on the former millsite, some contaminants enter Montezuma Creek at points upstream of the millsite and east of Highway 191.

- Although significant amounts of contamination enter the creek as it crosses the millsite, groundwater inflows just below the millsite also transfer contamination from the tailings piles to the creek.

- Contaminant levels at points farther downstream vary with stream stages, especially during the spring runoff, and with the relative contribution of groundwater base flow from non-millsite sources.

- Downstream from the Vega Creek confluence, uranium concentrations reflect both contamination derived from the millsite and naturally occurring uranium from mineralized formations exposed in the canyon walls.

Only minor amounts of constituents attributable to uranium milling were identified at upstream monitoring stations. Aluminum and arsenic were not detected; barium, iron, manganese, molybdenum, selenium, uranium, vanadium, and zinc were detected in low concentrations. The 1981–83 studies concluded that samples from the upstream monitoring sites (primarily W–3, east of Highway 191) did not truly reflect background water quality because of their proximity to the millsite. However, those sites remained in use for general monitoring purposes.

On the millsite proper, uranium concentrations in the stream began to rise at points upstream from the tailings piles. Arsenic, molybdenum, vanadium, and uranium concentrations all increased in samples at Site W–2, where a seep from the Carbonate Pile entered the creek, and concentrations of uranium, molybdenum, selenium, vanadium, and Ra-226 continued to increase in samples collected below the Vanadium Pile. However, the highest levels of molybdenum and uranium were detected in samples downstream from the millsite. The high concentrations indicated that major contributions from the alluvial aquifer to the creek occurred below the drop structure at the east boundary of the millsite.

Farther downstream from the millsite, uranium concentrations in samples from the Sorenson site varied according to discharge levels in Montezuma Creek. Concentrations decreased during periods of high flow (from March to June) and increased during base-flow periods (from July to February). In the canyon south of the Vega Creek confluence, elevated uranium levels typically occurred in samples from the Montezuma Canyon site. Additional sampling in the canyon showed that a significant part of this uranium leached directly from the mineralized Salt Wash Member of the Morrison Formation, which outcrops in the canyon walls above the sampling station. Variations in concentrations of all solutes apparently reflected dilution by spring runoff and by inflows of better-quality groundwater from the Entrada Sandstone (DOE 1990b).

Surface-water sampling results from September 1981 to April 1992 are presented in Annex B–1.

B1.2.2 Groundwater Investigations

DOE began to monitor groundwater levels and quality in 1980. However, the sophistication and extent of the monitoring program increased greatly after 1984. Major steps in the evolution of the program included the following:

- **1980–1982.** DOE installed five shallow wells in the alluvial aquifer at the millsite area in 1980. However, the wells were screened across more than one water-bearing unit and the wells were not properly completed allowing for potentially contaminated material to fall into the annular space around the wells screens. Consequently, samples from those wells do not accurately represent conditions in the alluvial aquifer. DOE also sampled four privately owned wells: one downgradient and three upgradient from the millsite. The samples were analyzed for radionuclides, metals, and major cations and anions. DOE sampled those wells semiannually until 1982 (DOE 1990b).

- **1982.** DOE installed 32 monitoring wells in the alluvial aquifer. Ten wells were screened across the alluvial aquifer and parts of the Mancos Shale or Dakota Sandstone. In spring 1983, DOE performed slug tests in 14 of the wells to obtain estimates of hydraulic conductivity.

Results of the 1982 field studies are documented in a Site Analysis Report (Bendix 1984) and in the RI/FS–EA (DOE 1990b).

- **1983–1984.** Eight boreholes were drilled and cored into the Dakota Sandstone and the Burro Canyon Formation. Five of the boreholes were completed as monitoring wells: three (84–75, 84–76, and 84–77) in the Burro Canyon Aquifer and two (83–70 and 84–74) in both the Dakota Sandstone and the Burro Canyon Aquifer. DOE sampled all five wells in 1986 and continued sampling well 84–74 through July 1993. Sampling results were presented in the annual environmental monitoring reports. Those five wells allowed water quality in the Dakota Sandstone and Burro Canyon Aquifer to be compared at upgradient (but east of U.S. Highway 191), millsite, and downgradient locations. Three pumping tests were conducted at well 83–70 to estimate the hydraulic properties of the Burro Canyon Aquifer. Test results were reported in DOE (1988) and in the RI/FS–EA (DOE 1990b).

- **1986–1988.** DOE installed three wells in the alluvial aquifer at the millsite in 1986 and 10 more wells in 1988. Pumping tests were conducted in two of the wells to aid in evaluating on-site stabilization alternatives for remediating the tailings. The 1988 results were documented in a summary report (DOE 1988).

- **1987.** Semiannual sampling resumed at 13 monitoring wells located upgradient, on site, and downgradient of the millsite. Analytes included gross alpha activity, Ra-226, radium-228 (Ra-228), uranium, vanadium, arsenic, selenium, molybdenum, and nitrate. Total alkalinity, pH, and specific conductance also were measured to detect changes in general water-quality characteristics. Water levels were measured quarterly (DOE 1988).

Results of those investigations led to the following primary findings:

- Qualitatively, the older data indicated widespread contamination of the alluvial aquifer by radionuclides and metals in the millsite area. Nitrates, sulfates, and chlorides were also present at elevated levels.

- No evidence of millsite-related contamination was found in the limited investigation of groundwater in the Dakota Sandstone and the Burro Canyon Formation.

Alluvial groundwater sampling results from August 1982 to April 1992 are presented in Annex B–2; bedrock groundwater sampling results from July 1983 to October 1991 are presented in Annex B–3. Well locations are shown on Plate 3.1.3–1.

Upon completing the RI/FS–EA, DOE conducted several investigations to support implementation of the selected remedies for OU I. Those design-stage investigations focused on either the millsite or the area south of the millsite (the South Site) proposed for permanent storage of the uranium mill tailings and related contaminated materials. However, many data from those investigations regarding hydraulic properties and water quality in bedrock hydrogeologic units can be extrapolated to OU III conditions.

- **1989–1991 Characterizations of the South Site.** DOE conducted a hydrogeologic and geotechnical study of the South Site in 1989 and 1990 to evaluate its suitability as the OU I repository. That study included drilling, logging, and geotechnical sampling of 82 drillholes, in which monitoring wells were subsequently installed and developed. Most of those wells penetrated only a short distance into weathered Mancos Shale. However, 14 drillholes were carried deeper into the Mancos, the Dakota, or the Burro Canyon Formations by rotary core drilling. Field packer tests and laboratory permeability tests were performed. A final report (Golder Associates, Inc. 1990) presented the results of that characterization. Additional studies were done in 1991 to further define hydrogeologic conditions, to aid in locating the repository within the overall South Site, and to evaluate the properties of potential construction materials (Golder Associates, Inc. 1991). Those studies included augering 15 more drillholes and coring four angled drillholes to evaluate fracturing in the bedrock formations. Thirteen of the auger holes were completed as piezometers or monitoring wells. Packer tests were performed in the angled drillholes, and a short-duration pumping test was conducted in a well that penetrated the weathered Mancos Shale.

- **1991 Characterization of the Millsite.** A field investigation began in 1991 to gather design-level geotechnical, hydrogeological, and radiological data at the millsite and the Bureau of Land Management (BLM) area. That work included installing 38 monitoring wells and 20 standpipes in the Montezuma Creek alluvium and one monitoring well in the Mancos Shale; developing the monitoring wells; performing well-recovery tests; and collecting and testing geotechnical, chemical, and radiological samples. Results of that investigation were reported in a revised final report (Dames & Moore 1992).

B1.2.3 Soil and Sediment Investigations

Three studies were performed between 1982 and 1987 to investigate sediments contaminated by Ra-226 along Montezuma Creek. Except in the first (1982) investigation, no analyses were performed for other nonradioactive constituents of uranium mill tailings. In addition to a limited number of analytes, the applicability of sediment data to the RI is further limited because sampling locations are poorly documented and it is expected that deposits have been redistributed as a result of the dynamic nature of the depositional environment. A summary of each investigation is presented below.

1982 Sediment Sampling Study

In 1982, DOE sampled sediments at 15 sites along the Montezuma Creek channel from about 1 mile upstream of the millsite to about 4.25 miles downstream from the confluence with Vega Creek (Figure B–1). One site was located upstream of the millsite (west of U.S. Highway 191), one site was in the middle of the millsite, eight sites were between the millsite and Vega Creek, and five sites were downstream from the Vega Creek confluence. At 14 sites, three discrete sediment samples were collected from various positions in or adjacent to the creek channel. At the remaining site, one sample was obtained by scraping surface coatings from rocks in the channel. All samples were analyzed for Ra-226, uranium, vanadium, molybdenum, arsenic, and selenium. Results of the 1982 study were reported in an internal memorandum, *Stream Sediment Survey of South Creek and Montezuma Canyon* (Bendix 1982) and are summarized in Table B–1.

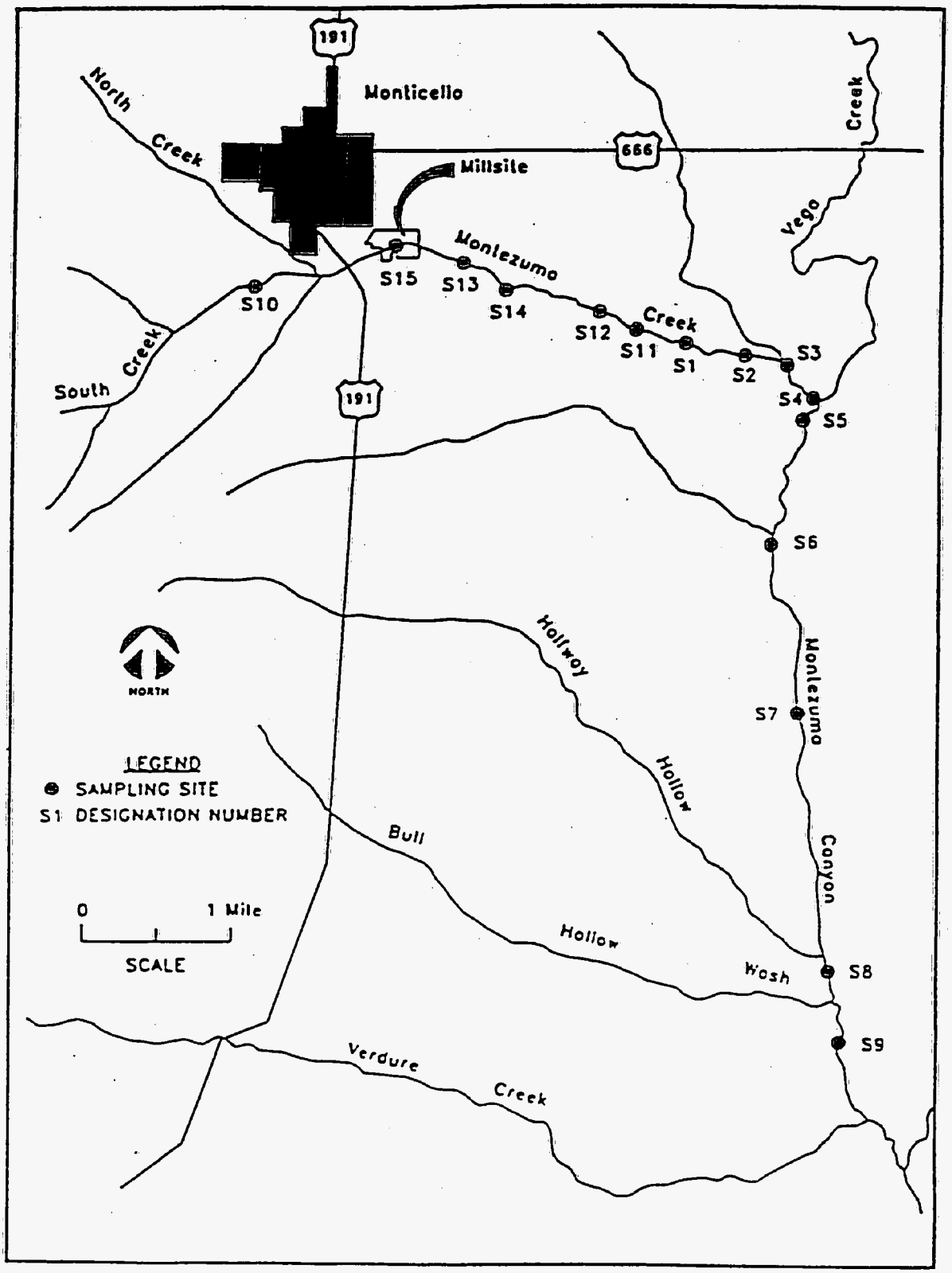

Figure B–1. Sediment Sampling Location Map for 1982 Characterization

Table B–1. Montezuma Creek 1982 Investigation Data

Sample Location[a]	As (ppm)	Mo (ppm)	Se (ppm)	U (ppm)	V (ppm)	Ra-226[b] (pCi/g)
S1	5	4	<5	11	100	7.1
	7	2	<5	4	85	5.5
	4	2	<5	9	95	11.0
S2	6	10	<5	66	185	10.4
S3	5	4	<5	9	75	6.1
	7	4	<5	8	130	11.0
	4	2	<5	11	115	6.2
S4	5	4	<5	24	110	5.3
	5	4	<5	15	155	24.6
	4	4	<5	23	200	36.7
S5	4	4	<5	6	65	11.0
	5	6	<5	21	150	9.1
	5	4	<5	12	95	12.0
S6	3	2	<5	1	60	1.2
	3	2	<5	1	60	2.0
	3	2	<5	1	65	1.9
S7	6	2	<5	4	65	2.8
	3	2	<5	10	70	NA[c]
	4	2	<5	2	50	NA
S8	5	2	<5	<1	35	2.3
	4	2	<5	<1	25	NA
	6	2	<5	<1	35	1.9

[a]Three individual samples were collected at each sample location. Sample S2 is an exception where one composite sample was collected.
[b]Ra-226 activities were derived from gamma spectroscopy analysis of the individual soil samples.
[c]NA = Results not available.

Table B–1. Montezuma Creek 1982 Investigation Data (continued)

Sample Location[a]	As (ppm)	Mo (ppm)	Se (ppm)	U (ppm)	V (ppm)	Ra-226[b] (pCi/g)
S9	3	2	<5	<1	25	NA
	3	2	<5	1	30	3.5
	4	4	<5	<1	30	1.9
S10	4	7	<5	1	85	0.4
	4	7	<5	<1	70	NA
	6	4	<5	1	65	1.0
S11	5	7	<5	12	115	10.9
	5	4	<5	17	150	10.8
	5	4	<5	35	320	54.3
S12	3	4	<5	12	125	14.2
	4	4	<5	11	95	9.1
	5	7	<5	23	190	25.1
S13	4	4	<5	10	105	4.4
	3	4	<5	15	95	4.9
	4	4	<5	11	90	4.9
S14	5	7	<5	14	115	4.6
	5	7	<5	13	120	7.8
	7	7	<5	15	175	2.5
S15	4	4	<5	8	100	4.0
	4	4	<5	8	95	4.1
	5	4	<5	7	90	5.7

[a]Three individual samples were collected at each sample location. Sample S2 is an exception where one composite sample was collected.
[b]Ra-226 activities were derived from gamma spectroscopy analysis of the individual soil samples.
[c]NA = Results not available.

In samples from the upstream site, Ra-226 activities ranged from 0.4 to 1.0 picocurie per gram (pCi/g); uranium activities were less than or equal to 1.0 pCi/g. Vanadium concentrations ranged from 65 to 85 parts per million (ppm), molybdenum concentrations ranged from 4 to 7 ppm, and arsenic concentrations ranged from 4 to 6 ppm. Selenium concentrations were below the detection limit of 5 ppm.

Ra-226 activities ranged from 1 to 54 pCi/g in samples collected downstream from the millsite and equaled or exceeded 5 pCi/g in samples from all locations between the millsite and a site one-eighth mile below the Vega Creek confluence. Elevated concentrations of uranium and vanadium were also detected in those samples. Selenium concentrations were below the detection limit of 5 ppm, and molybdenum and arsenic concentrations did not vary significantly from background in any of the samples. All samples collected farther downstream than one-eighth mile below the Vega Creek confluence contained Ra-226 and uranium at approximately background levels (Bendix 1982).

1984 Radiological Characterization

DOE conducted a radiological characterization of peripheral properties near the millsite in July and August 1984. The main soil and sediment area was a section of Montezuma Creek between the east boundary of the millsite and a point about 6,000 ft east of the millsite. A total of 52 sites were sampled in this area. In addition, one site at the Vega Creek confluence and two sites about 1,250 ft west of Vega Creek (one along Montezuma Creek and one along an unnamed tributary) were sampled. Results of the characterization were reported in Bendix (1985) and are tabulated in Tables B–2 and B–3.

Most of the sample sites were on the banks of the creek in depositional areas; none were located in the ponds along the creek. At each site, soil samples were collected in 6-inch intervals from shovel holes. Measurements of Ra-226 activity were made at each interval using a delta scintillometer. Sampling continued to a maximum depth of 24 inches or until field measurements indicated a Ra-226 concentration less than 6 pCi/g. Gamma exposure rates were measured at ground level and waist level. Laboratory analyses for Ra-226, thorium-232 (Th-232), and potassium-40 were performed on the samples. However, no samples were analyzed for elemental uranium or other metals. At several sites, both laboratory and field data showed Ra-226 activities higher than 15 pCi/g at the 24-inch maximum depth. The highest Ra-226 concentrations occurred along the tops of the banks rather than at the water level. At isolated locations, ground-level gamma exposure rates exceeded the average background by a factor of 10 (Bendix 1985).

A study was conducted during 1984 to estimate average background gamma exposure rates and Ra-226 activities attributable to natural sources. Four background locations assumed to be representative of local geologic conditions were selected within a few miles of the millsite. At each site, 6-inch-deep soil samples were collected from two discrete locations for submission to the laboratory, and gamma exposure rates were measured with a pressurized ionization chamber. The resulting estimates of average background were 1.0 pCi/g Ra-226, 1.7 percent potassium-40, 7 ppm Th-232, and 15 microroentgens per hour (μR/h) for the gamma exposure rate (Bendix 1985).

Table B–2. Upper, Middle, and Lower Montezuma Creek—1984 and 1987 Radiological Investigation Data

Location Number	Grid Coordinates		Measurement Type[a]	Ra-226 Concentration (pCi/g)	Depth (inches)	Comments
	Northing	Easting				
1	9424	25403	DS	4.8	00	
			DS	4.1	06	
			SS	5.0	00-06	
2	9542	25403	DS	16.2	00	
			DS	9.9	06	
			SS	19.0	00-06	
			DS	5.5	12	
			SS	13.0	06-12	
3	9642	25403	DS	5.4	00	
			SS	3.0	00-06	
4	9764	25403	DS	5.7	00	
			DS	3.2	06	
5	9964	25403	DS	5.9	00	
			SS	5.0	00-06	
			DS	4.2	06	
6*	9304	25603	DS	4.6	00	
			DS	5.2	06	
			SS	6.0	00-06	
7*	9344	25603	DS	1.7	00	
			SS	2.0	00-06	
8*	9764	25603	DS	14.3	00	
			DS	11.4	06	
			SS	34.0	00-06	
			SS	23.0	06-12	
			DS	3.5	12	
9	9252	25803	DS	4.0	00	
			SS	3.0	00-06	
10*	9452	25803	DS	10.9	00	
			DS	1.3	00	
			SS	2.0	00-06	
			DS	4.4	06	
11	9491	25803	DS	56.4	00	
			DS	15.3	06	
			SS	69.0	00-06	
			SS	17.0	06-12	
			DS	11.2	12	

[a]Measurement Type: DS = Delta Scintillometer
SS = Soil Sample by Laboratory Analysis
TC = Total Count Borehole (deconvolved)

*1984 Sample Location

Table B–2. Upper, Middle, and Lower Montezuma—1984 and 1987 Radiological Investigation Data (continued)

Location Number	Grid Coordinates		Measurement Type[a]	Ra-226 Concentration (pCi/g)	Depth (inches)	Comments
	Northing	Easting				
12	9764	25803	DS	5.0	00	
			DS	1.9	06	
			SS	6.0	00-06	
13	9529	26203	DS	3.0	00	
			DS	2.9	06	
			SS	3.0	00-06	
14	9639	26203	DS	4.7	00	
			DS	5.0	06	
			SS	4.0	00-06	
15	9839	26203	DS	5.1	00 06	
			DS	5.0		
					00	
16*	9444	26383	DS	11.2	00	
			TC	7.1	00-06	
			SS	13.0	06	
			DS	17.9	06	
			TC	9.2	12	
			SS	4.8	06-12	
			DS	19.0	12	
			TC	11.8	18	
			TC	2.9	22	
			TC	3.0		
					00	
17*	9489	26403	DS	63.6	06	
			DS	22.5	00-06	
			SS	131.0	12	
			DS	8.4	06-12	
			SS	42.0	18	
			DS	6.7	12-18	
			SS	6.0		
					00	
18	9431	26603	DS	2.8	06	
			DS	2.7	00-06	
			DS	2.0		
					00	
19	9520	26603	DS	9.3	06	
			DS	5.5	00-06	
			SS	10.0		
					00	
20*	9620	26603	DS	9.0	00	
			DS	2.3	00-06	
			SS	2.0		

[a]Measurement Type: DS = Delta Scintillometer
SS = Soil Sample by Laboratory Analysis
TC = Total Count Borehole (deconvolved)

*1984 Sample Location

Table B–2. Upper, Middle, and Lower Montezuma Creek—1984 and 1987 Radiological Investigation Data (continued)

Location Number	Grid Coordinates		Measurement Type[a]	Ra-226 Concentration (pCi/g)	Depth (inches)	Comments
	Northing	Easting				
21	9720	26603	DS	3.5	00	
			SS	2.0	00-06	
22*	9494	26793	DS	7.4	00	
			DS	7.6	06	
			SS	12.0	00-06	
23*	9514	26803	DS	22.6	00	Creek Bed
			SS	25.0	00-06	
			DS	62.5	06	
			DS	7.1	12	
			SS	103.0	06-12	
24	9232	27003	DS	2.6	00	
			DS	3.8	06	
			SS	1.0	00-06	
25	9391	27003	DS	4.8	00	
			SS	3.0	00-06	
			DS	6.0	06	
			SS	2.0	06-12	
			DS	4.5	12	
26	9591	27003	DS	3.6	00	
			SS	4.0	00-06	
27*	9264	27203	DS	0.3	00	
			SS	3.0	00-06	
			SS	6.0	06-12	
28*	9294	27203	DS	28.0	00	
			DS	33.3	06	
			SS	40.0	00-06	
			DS	9.4	12	
			SS	67.0	06-12	
			DS	8.5	18	
	9162					
29		27403	DS	3.1	00	
			SS	1.0	00-06	
	9262					
30		27403	DS	14.8	00	
			DS	18.8	06	
			SS	19.0	00-06	
			SS	28.0	06-12	
			DS	4.1	12	

[a]Measurement Type: DS = Delta Scintillometer
SS = Soil Sample by Laboratory Analysis
TC = Total Count Borehole (deconvolved)

*1984 Sample Location

Table B–2. Upper, Middle, and Lower Montezuma—1984 and 1987 Radiological Investigation Data (continued)

Location Number	Grid Coordinates		Measurement Type[a]	Ra-226 Concentration (pCi/g)	Depth (inches)	Comments
	Northing	Easting				
31	9330	27403	DS	7.3	00	
			SS	5.0	00-06	
			DS	9.4	06	
			SS	8.0	06-12	
			DS	6.3	12	
32	9430	27403	DS	5.2	00	
			SS	2.0	00-06	
33	9264	27783	DS	94.3	00	Creek Bed
			DS	71.8	06	
			SS	139.0	00-06	
			SS	109.0	06-12	
			DS	33.1	12	
34	9414	27783	DS	2.9	00	
35*	9216	27795	DS	2.4	00	
			DS	3.0		
			SS	1.6	06	
			SS	1.5	00-06	
					06-12	
36*	9254	27795	DS	2.3		
			SS	1.7	00	
			DS	2.8	00-06	
			SS	1.1	06	
					06-12	
37*	9264	27795	DS	14.0		
			DS	4.7	00	
			SS	41.5	06	
			DS	5.5	00-06	
			SS	4.8	12	
					12-18	
38*	9274	27795	DS	21.1		
			DS	14.3	00	
			SS	5.9	06	
			DS	33.5	00-06	
			SS	5.4	12	
			SS	8.8	06-12	
			DS	90.8	12-18	
			SS	89.3	18	
			DS	190.9	18-24	
					24	
39	9229	27803	DS	3.4		
			SS	2.0	00	
					00-06	
40	8975	28203	DS	4.6		
					00	

[a]Measurement Type: DS = Delta Scintillometer
SS = Soil Sample by Laboratory Analysis
TC = Total Count Borehole (deconvolved)

*1984 Sample Location

Table B–2. Upper, Middle, and Lower Montezuma Creek—1984 and 1987 Radiological Investigation Data (continued)

Location Number	Grid Coordinates		Measurement Type[a]	Ra-226 Concentration (pCi/g)	Depth (inches)	Comments
	Northing	Easting				
41	9060	28203	DS	44.6	00	
			DS	48.7	00	
			DS	123.6	06	
			SS	21.0	00-06	
			DS	41.4	12	
			SS	130.0	06-12	
42	9094	28203	DS	83.4	00	
			SS	98.0	00-06	
			DS	131.5	06	
			SS	139.0	06-12	
			DS	80.9	12	
43	9120	28203	DS	5.6	00	
44	9220	28203	DS	2.6	00	
45*	8981	28323	DS	2.5	00	
			DS	3.1	06	
			SS	1.8	00-06	
			DS	3.0	12	
			SS	1.9	06-12	
			SS	1.7	12-18	
46*	9050	28323	DS	3.1	00	Creek Bed
			DS	5.7	06	
			SS	2.5	00-06	
			DS	5.7	12	
			SS	4.9	06-12	
			SS	5.8	12-18	
47*	9064	28323	DS	3.8	00	Creek Bed
			DS	1.6	06	
			SS	4.0	00-06	
			SS	2.7	06-12	
48*	9077	28323	DS	39.3	00	
			SS	50.1	00-06	
			DS	45.9	06	
			SS	52.4	06-12	
			DS	39.8	12	
			DS	41.5	18	
			SS	52.4	12-18	
			DS	46.5	24	
			SS	42.0	18-24	

[a]Measurement Type: DS = Delta Scintillometer
SS = Soil Sample by Laboratory Analysis
TC = Total Count Borehole (deconvolved)

*1984 Sample Location

Table B–2. Upper, Middle, and Lower Montezuma—1984 and 1987 Radiological Investigation Data (continued)

Location Number	Grid Coordinates		Measurement Type[a]	Ra-226 Concentration (pCi/g)	Depth (inches)	Comments
	Northing	Easting				
49*	9107	28323	DS	40.5	00	Creek Bed
			DS	22.2	06	
			SS	63.3	00-06	
			SS	42.2	06-12	
			DS	16.0	12	
			DS	16.3	18	
			SS	12.0	12-18	
			SS	10.9	18-24	
50	8841	28603	DS	4.6	00	
51	8886	28603	DS	17.2	00	
			SS	11.0	00-06	
			DS	29.0	06	
			SS	32.0	06-12	
			DS	4.7	12	
52	8986	28603	DS	5.6	00	
			DS	3.9	06	
			SS	3.0	00-06	
53	8931	29003	DS	3.9	00	
54	8962	29003	DS	22.3	00	
			DS	42.8	06	
			SS	4.0	00-06	
			SS	17.0	06-12	
			DS	75.8	12	
55	8991	29003	DS	1.4	00	
56*	8254	29343	DS	2.4	00	
			SS	3.0	00-06	
			DS	0.3	06	
			SS	1.5	06-12	
57	8598	29403	DS	5.1	00	
58	8648	29403	DS	161.5	00	
			DS	242.8	06	
			SS	130.0	00-06	
			DS	256.0	12	
			SS	182.0	06-12	
			DS	59.8	18	
			SS	322.0	12-18	

[a]Measurement Type: DS = Delta Scintillometer
SS = Soil Sample by Laboratory Analysis
TC = Total Count Borehole (deconvolved)

*1984 Sample Location

Table B–2. Upper, Middle, and Lower Montezuma Creek—1984 and 1987 Radiological Investigation Data (continued)

Location Number	Grid Coordinates		Measurement Type[a]	Ra-226 Concentration (pCi/g)	Depth (inches)	Comments
	Northing	Easting				
59	8683	29403	DS	169.1	00	
			DS	162.0	06	
			SS	184.0	00-06	
			SS	213.0	06-12	
			DS	55.6	12	
60	8733	29403	DS	3.7	00	
61*	8652	29435	DS	54.1	00	
			SS	107.3		
			DS	26.9	00-06	
			SS	42.8	06	
			DS	18.2	06-12	
			DS	11.1	12	
			SS	27.5	18	
			SS	11.1	12-18	
			DS	7.7	18-24	
					24	
62*	8662	29435	DS	5.2		Creek Bed
			DS	6.0	00	
			SS	5.8	06	
			SS	4.8	00-06	
			DS	7.4	06-12	
			SS	4.9	12	
					12-18	
63*	8679	29435	DS	113.0		
			SS	249.3	00	
			DS	39.0	00-06	
			DS	32.7	06	
			SS	62.8	12	
			DS	38.7	06-12	
			SS	21.8	18	
			SS	28.0	12-18	
			DS	28.4	18-24	
			SS	32.0	24	
					24-30	
64*	8707	29435	DS	0.3		
			DS	1.7	00	
			DS	0.3	00	
			DS	1.6	06	
			SS	1.2	06	
			SS	1.2	00-06	
			SS	1.9	06-12	
					12-18	
65*	8694	30073	DS	1.7		
			DS	1.6	00	
			SS	1.9	06	
					00-06	

[a]Measurement Type: DS = Delta Scintillometer
SS = Soil Sample by Laboratory Analysis
TC = Total Count Borehole (deconvolved)

*1984 Sample Location

Table B–2. Upper, Middle, and Lower Montezuma—1984 and 1987 Radiological Investigation Data (continued)

Location Number	Grid Coordinates		Measurement Type[a]	Ra-226 Concentration (pCi/g)	Depth (inches)	Comments
	Northing	Easting				
66*	8403	30173	DS	18.6	00	
			DS	15.2	06	
			SS	91.3	00-06	
			DS	3.7	12	
			SS	33.1	06-12	
			DS	4.2	18	
			SS	10.1	12-18	
67*	8414	30173	DS	5.4	00	Creek Bed
			SS	7.2	00-06	
			DS	5.1	06	
			DS	4.0	12	
			SS	3.5	06-12	
68*	8421	30173	DS	10.2	00	
			SS	12.6	00-06	
			DS	10.2	06	
			SS	13.8	06-12	
			DS	11.7	12	
			DS	17.6	18	
			SS	10.4	12-18	
69*	8234	30233	DS	1.0	00	
			DS	1.0	06	
			SS	0.7	06-12	
70*	8085	31258	DS	6.1	00	Creek Bed
			DS	5.0	06	
			SS	9.2	00-06	
			SS	4.2	06-12	
			DS	5.9	12	
		31258				
71*	8090		DS	29.8	00	
			SS	63.7	00-06	
			DS	2.7	06	
		31258	SS	9.8	06-12	
72*	8145		DS	0.4	00	
			DS	1.0	06	
			SS	1.2	00-06	
		32123	SS	0.7	06-12	
73*	7984		DS	1.0	00	
			DS	1.0	06	
			SS	1.0	00-06	

[a]Measurement Type: DS = Delta Scintillometer
SS = Soil Sample by Laboratory Analysis
TC = Total Count Borehole (deconvolved)

*1984 Sample Location

Table B–2. Upper, Middle, and Lower Montezuma Creek—1984 and 1987 Radiological Investigation Data (continued)

Location Number	Grid Coordinates		Measurement Type[a]	Ra-226 Concentration (pCi/g)	Depth (inches)	Comments
	Northing	Easting				
74*	7856	32173	DS	5.4	00	
			DS	7.0	06	
			SS	5.3	00-06	
			DS	7.0	12	
			SS	5.3	06-12	
			DS	9.9	18	
			SS	7.0	12-18	
75*	7874	32173	DS	3.5	00	
			SS	4.8	00-06	
			DS	6.2	06	
			DS	4.0	12	
			SS	7.6	06-12	
			SS	6.4	12-18	
			SS	11.7	18-24	
76*	7882	32173	DS	26.7	00	
			DS	9.4	06	
			SS	51.0	00-06	
			DS	3.2	12	
			SS	11.9	06-12	
			SS	4.3	12-18	
77*	7794	32203	DS	1.1	00	
			DS	1.7	06	
			SS	1.2	00-06	
78*	7817	33569	DS	1.0	00	
			DS	1.0	06	
			SS	0.9	00-06	
79*	7777	33576	DS	7.6	00	Creek Bed
			DS	1.5	06	
			SS	5.2	00-06	
			SS	1.8	06-12	
80*	7760	33578	DS	2.0	00	Creek Bed
			DS	4.0	06	
			SS	1.2	00-06	
			SS	3.1	06-12	
			DS	6.6	12	
			DS	10.0	18	
			SS	3.9	12-18	

[a]Measurement Type: DS = Delta Scintillometer
SS = Soil Sample by Laboratory Analysis
TC = Total Count Borehole (deconvolved)

*1984 Sample Location

Table B–2. Upper, Middle, and Lower Montezuma—1984 and 1987 Radiological Investigation Data (continued)

Location Number	Grid Coordinates		Measurement Type[a]	Ra-226 Concentration (pCi/g)	Depth (inches)	Comments
	Northing	Easting				
81*	7745	33580	DS	0.9	00	
			SS	0.8	00-06	
			DS	1.4	06	
			SS	1.1	06-12	
82*	7735	33582	DS	3.2	00	
			DS	1.8	06	
			SS	1.1	00-06	
			SS	0.8	06-12	
			SS	0.8	12-18	
83*	7679	34713	DS	1.5	00	
			DS	1.8	06	
			SS	0.7	00-06	
			SS	0.8	06-12	
84*	7702	34713	DS	2.3	00	
			DS	3.0	06	
			SS	1.2	00-06	
			DS	2.4	12	
			SS	1.1	06-12	
			SS	1.0	12-18	
85*	7731	34713	DS	2.6	00	Creek Bed
			SS	2.2	00-06	
			DS	4.5	06	
			SS	4.3	06-12	
			DS	6.4	12	
			SS	7.6	12-18	
86*	7737	34713	DS	82.3	00	
			DS	29.1	06	
			SS	111.6	00-06	
			DS	6.6	12	
			SS	17.5	06-12	
			SS	4.7	12-18	
87	7759	34713	DS	1.5	00	
			DS	1.0	06	
			SS	1.9	06-16	
			SS	1.1	16-12	
88	7814	35073	DS	1.9	00	
			SS	1.0	00-06	

[a]Measurement Type: DS = Delta Scintillometer
SS = Soil Sample by Laboratory Analysis
TC = Total Count Borehole (deconvolved)

*1984 Sample Location

Table B–2. Upper, Middle, and Lower Montezuma Creek—1984 and 1987 Radiological Investigation Data (continued)

Location Number	Grid Coordinates		Measurement Type[a]	Ra-226 Concentration (pCi/g)	Depth (inches)	Comments
	Northing	Easting				
89	7614	35163	DS	28.2	00	Abandoned
			DS	53.9	06	Cabin Area
			SS	12.0	00-06	
			DS	70.6	12	
			SS	25.0	06-12	
			DS	152.1	18	
			SS	31.0	12-18	
90*	7232	35414	DS	1.7	00	
			SS	1.6	00-06	
			DS	1.7	06	
			SS	1.3	06-12	
91*	7244	35428	DS	33.7	00	
			DS	88.1	06	
			SS	38.8	00-06	
			DS	10.9	12	
			SS	165.1	06-12	
			DS	5.2	18	
			SS	6.1	12-18	
92*	7249	35433	DS	5.1	00	Creek Bed
			SS	4.4	00-06	
			DS	4.4	06	
			DS	3.1	12	
			SS	7.0	06-12	
93*	7259	35444	DS	13.5	00	
			SS	11.1	00-06	
			DS	55.5	06	
			DS	100.8	12	
			SS	28.7	06-12	
			SS	54.7	12-18	
			DS	200.2	18	
			SS	208.3	18-24	
94*	7269	35445	DS	1.7	00	
			SS	1.2	00-06	
			DS	0.6	06	
			SS	1.1	06-12	
95*	6323	36278	DS	1.1	00	
			SS	1.7	06	
			DS	1.1	00-06	
			SS	1.0	06-12	

[a]Measurement Type: DS = Delta Scintillometer
SS = Soil Sample by Laboratory Analysis
TC = Total Count Borehole (deconvolved)

*1984 Sample Location

Table B–2. Upper, Middle, and Lower Montezuma—1984 and 1987 Radiological Investigation Data (continued)

Location Number	Grid Coordinates		Measurement Type[a]	Ra-226 Concentration (pCi/g)	Depth (inches)	Comments
	Northing	Easting				
96*	6359	36329	DS	4.0	00	Creek Bed
			DS	2.3	06	
			SS	1.9	00-06	
			SS	3.3	06-12	
97	6054	36333	DS	35.3	00	Vega Creek
			DS	53.5	06	Confluence
			SS	37.0	00-06	
			SS	63.0	06-12	
			DS	28.2	12	
98*	6369	36344	DS	2.1	00	
			DS	2.8	06	
			SS	1.4	00-06	
			SS	1.3	06-12	
99	6254	36443	DS	1.5	00	
			SS	1.0	00-06	

[a]Measurement Type: DS = Delta Scintillometer
SS = Soil Sample by Laboratory Analysis
TC = Total Count Borehole (deconvolved)

*1984 Sample Location

Table B–3. Upper, Middle, and Lower Montezuma Creek—1984 and 1987 Analytical Investigation Data

Location Number	Grid Coordinates		Soil Sample	Concentration		
	Northing	Easting		Ra-226 (pCi/g)	Thorium (ppm)	Potassium (%)
1	9424	25403	0-6	5	<3	1.4
2	9542	25403	0-6	19	<3	1.8
			6-12	13	<2	2.0
3	9642	25403	0-6	3	8	2.1
5	9964	25403	0-6	45	<4	2.1
6*	9304	25603	0-6	6	<0.3	26.8
7*	9344	25603	0-6	2	<0.1	27.6
8*	9764	25603	0-6	34	<0.0	21.8
			6-12	23	<0.0	23.4
9	9252	25803	0-6	3	<2	1.8
10*	9452	25803	0-6	2	<0.2	27.6
11	9491	25803	0-6	69	<4	1.2
			6-12	17	7	1.6
12	9764	25803	0-6	6	8	2.5
13	9529	26203	0-6	3	4	1.6
14	9639	26203	0-6	4	9	1.8
16*	9444	26383	0-6	13	<0.4	26.0
			6-12	19	<0.5	22.6
17*	9489	26403	0-6	131	<5.8	<8.4
			6-12	42	<1.1	17.6
			12-18	6	<0.0	26.0
18	9431	26603	0-6	2	<2	1.0
19	9520	26603	0-6	10	7	1.4
20*	9620	26603	0-6	2	<0.3	26.8
21	9720	26603	0-6	2	8	1.8
22*	9494	26793	0-6	12	<0.8	<0.8
23*	9514	26803	0-6	25	<1.5	2.5<
			6-12	103	<3.9	5.9

*1984 Sample Locations

Table B–3. Upper, Middle, and Lower Montezuma Creek—1984 and 1987 Analytical Investigation Data (continued)

Location Number	Grid Coordinates		Soil Sample	Concentration		
	Northing	Easting		Ra-226 (pCi/g)	Thorium (ppm)	Potassium (%)
24	9232	27003	0-6	1	<2	1.7
25	9391	27003	0-6	3	8	2.3
			6-12	2	9	2.3
26	9591	27003	0-6	4	8	1.7
27*	9264	27203	0-6	3	<0.4	<0.8
			12-18	6	<0.1	<0.0
28*	9294	27203	0-6	40	<2.0	2.5
			6-12	67	<2.4	15.1
29	9162	27403	0-6	1	5	2.1
30	9262	27403	0-6	19	<3	1.3
			6-12	28	<3	1.4
31	9330	27403	0-6	5	7	2.1
			6-12	8	2	1.9
32	9430	27403	0-6	2	12	2.6
33	9264	27783	0-6	139	4	0.8
			6-12	109	6	1.2
35*	9216	27795	0-6	1.6	<0.1	20.0
			6-12	1.5	<0.2	19.1
36*	9254	27795	0-6	1.7	0.7	19.6
			6-12	1.1	0.9	10.4
37*	9264	27795	0-6	41.5	<0.7	11.3
			12-18	4.8	0.6	17.1
38*	9274	27795	0-6	5.9	<0.2	14.3
			6-12	5.4	0.9	13.4
			12-18	8.8	1.2	16.2
			18-24	89.3	<1.3	<2.2
39	9229	27803	0-6	2	10	1.5
41	9060	28203	0-6	21	4	1.4
			6-12	130	5	1.6
42	9094	28203	0-6	98	7	1.6
			6-12	139	4	1.4
45*	8981	28323	0-6	1.8	0.8	17.6
			6-12	1.9	0.9	19.9
			12-18	1.7	0.5	17.3

*1984 Sample Locations

Table B–3. Upper, Middle, and Lower Montezuma Creek—1984 and 1987 Analytical Investigation Data (continued)

Location Number	Grid Coordinates		Soil Sample	Concentration		
	Northing	Easting		Ra-226 (pCi/g)	Thorium (ppm)	Potassium (%)
46*	9050	28323	0-6	2.5	0.9	16.9
			6-12	4.9	0.9	17.0
			12-18	5.8	0.9	21.8
47*	9064	28323	0-6	4.0	0.6	16.9
			6-12	2.7	1.1	20.4
48*	9077	28323	0-6	50.1	<0.9	13.6
			6-12	52.4	<0.9	15.0
			12-18	52.4	<0.8	17.9
			18-24	42	<0.8	16.2
49*	9107	28323	0-6	63.3	<1.1	17.5
			6-12	42.2	<0.9	11.4
			12-18	12	0.6	17.8
			18-24	10.9	0.9	15.6
51	8886	28603	0-6	11	7	1.8
			6-12	32	<8	1.5
52	8986	28603	0-6	3	10	3.1
54	8962	29003	0-6	4	10	2.0
			6-12	17	6	1.4
56*	8254	29343	0-6	3.0	0.9	13.1
			6-12	1.5	0.8	15.3
58	8648	29403	0-6	130	2	1.2
			6-12	182	5	0.8
			12-18	322	1	1.4
59	8683	29403	0-6	184	2	1.1
			6-12	213	3	1.4
61*	8652	29435	0-6	107.3	<1.9	8.1
			6-12	42.8	0.7	14.6
			12-18	27.5	<0.4	14.0
			18-24	11.1	<0.2	17.3
63*	8679	29435	0-6	249.3	<2.8	<8.2
			6-12	62.8	<1.0	14.5
			12-18	21.8	<0.3	14.5
			18-24	28.0	<0.4	9.6
			24-30	32.0	1.7	15.0
65*	8694	30073	0-6	1.9	0.8	13.3
66*	8403	30173	0-6	91.3	<1.3	<1.7
			6-12	33.1	<0.5	11.4
			12-18	10.1	<0.3	15.2

*1984 Sample Locations

Table B–3. Upper, Middle, and Lower Montezuma Creek—1984 and 1987 Analytical Investigation Data (continued)

Location Number	Grid Coordinates		Soil Sample	Concentration		
	Northing	Easting		Ra-226 (pCi/g)	Thorium (ppm)	Potassium (%)
67*	8414	30173	0-6	7.2	1.1	13.9
			6-12	3.5	0.8	13.5
68*	8421	30173	0-6	12.6	0.9	14.1
			6-12	13.8	1.0	15.0
			12-18	10.4	0.8	19.3
69*	8234	30233	6-12	0.7	<0.2	6.8
70*	8085	31258	0-6	9.2	1.2	16.2
			6-12	4.2	<0.2	14.5
71*	8090	31258	0-6	63.7	<1.1	17.9
			6-12	9.8	0.7	13.2
72*	8145	31258	0-6	1.2	0.2	9.4
			6-12	0.7	<0.2	10.4
73*	7984	32123	0-6	1.0	<0.1	8.0
74*	7856	32173	0-6	5.3	0.7	15.2
			6-12	5.3	0.5	15.4
			12-18	7.0	1.0	13.1
75*	7874	32173	0-6	4.8	0.9	14.8
			6-12	7.6	0.7	13.8
			12-18	6.4	<0.3	16.6
			18-24	11.7	0.6	15.4
76*	7882	32173	0-6	51.0	<0.8	12.0
			6-12	11.9	0.9	13.8
			12-18	4.3	1.4	14.5
77*	7794	32203	0-6	1.2	0.5	14.2
78*	7817	33569	0-6	0.9	<0.2	7.9
79*	7777	33576	0-6	5.2	1.7	13.5
			6-12	1.8	0.9	14.4
80*	7760	33578	0-6	1.2	0.7	16.7
			6-12	3.1	<0.2	15.8
			12-18	3.9	0.6	16.0
81*	7745	33580	0-6	0.8	<0.2	19.3
			6-12	1.1	1.0	16.4
82*	7735	33582	0-6	1.1	1.0	18.6
			6-12	0.8	0.7	7.9
			6-12	0.8	0.9	15.8
83*	7679	34713	0-6	1.9	0.8	8.4
			6-12	1.1	1.3	9.4

*1984 Sample Locations

Table B–3. Upper, Middle, and Lower Montezuma Creek—1984 and 1987 Analytical Investigation Data (continued)

Location Number	Grid Coordinates		Soil Sample	Concentration		
	Northing	Easting		Ra-226 (pCi/g)	Thorium (ppm)	Potassium (%)
84*	7702	34713	0-6	1.2	0.9	16.0
			6-12	1.1	1.3	15.0
			12-18	1.0	1.5	14.8
85*	7731	34713	0-6	2.2	0.9	15.9
			6-12	4.3	0.9	13.8
			12-18	7.6	0.7	14.4
86*	7737	34713	0-6	111.6	<0.9	<2.6
			6-12	17.5	0.7	13.3
			12-18	4.7	<0.2	15.7
90*	7232	35414	0-6	1.6	1.5	
			6-12	1.3	1.3	
91*	7244	35428	0-6	38.8	<0.7	
			6-12	165.1	<2.6	
			12-18	6.1	0.4	
92*	7249	35433	0-6	4.4	0.9	14.9
			6-12	7.0	0.9	17.0
93*	7259	35444	0-6	11.1	1.1	11.5
			6-12	28.7	<0.4	12.6
			12-18	54.7	1.0	15.4
94*	7269	35455	0-6	1.2	0.7	13.5
			6-12	1.1	0.9	13.0
95*	6323	36278	0-6	1.1	0.6	17.9
			6-12	1.0	1.3	17.3
96*	6359	36329	0-6	1.9	1.0	18.6
			6-12	3.3	1.0	16.0
98*	6369	36344	0-6	1.4	0.7	17.0
			6-12	1.3	1.0	15.9

*1984 Sample Locations

1987 Soil and Sediment Sampling Study

DOE sampled soil and sediment along Upper and Lower Montezuma Creek in July 1987 to support preliminary engineering design for remediation of the peripheral properties. Ten sample sites were established at intervals of approximately 1,000 ft along the creek, beginning 4,000 ft east of the millsite and ending at the Vega Creek confluence. The sites were selected visually to represent a variety of stream-channel physical characteristics. At each site, discrete samples were collected in the creek bed and on each bank to give a cross section of the sediment and soil deposits. Where practical, sample points were also located outside the apparent depositional areas on both sides of the creek. However, samples were not collected from any of the ponds along Montezuma Creek. The results were reported in a supplemental data release (DOE 1991b) and are tabulated in Tables B–2 and B–3.

Samples were collected from shovel holes at 6-inch intervals to a minimum depth of 12 inches. If delta-scintillometer measurements indicated elevated Ra-226 levels, additional samples were collected at greater depths. Sampling continued to a maximum depth of 24 inches unless an obstruction was encountered. All samples were analyzed for Ra-226, Th-232, and potassium-40; no analyses were performed for elemental uranium or other metals. Gamma exposure-rates were not measured (DOE 1991b).

The 1987 data indicated that Ra-226 concentrations in soils along the creek banks were usually higher, and the higher concentrations extended to greater depths, than concentrations in sediments of the creek bed. The highest Ra-226 activity measured in samples collected on the banks was 208 pCi/g at a depth interval of 18 to 24 inches. At several locations along the banks, field and laboratory data indicated that Ra-226 activities exceeded 15 pCi/g to depths greater than 24 inches. In samples collected from the creek bed, the highest Ra-226 activity was 42 pCi/g measured at a depth interval of 0 to 6 inches. Ra-226 activities were less than 8 pCi/g in samples collected from depths greater than 6 inches in the creek bed.

B1.2.4 Ecological Investigations

Previous ecological investigations included surveys of aquatic biology and vegetation in the Monticello area. Ecological and human health risk assessments were also completed for OU I and OU II and were documented in the RI/FS–EA (DOE 1990b).

Aquatic Biology Survey

BIO/WEST, Inc. conducted an aquatic biology survey of Montezuma Creek at four sampling stations along the creek in September 1988. The sampling stations included

- Station A, upstream of the millsite immediately west of Highway 191;
- Station B, just downstream of the millsite;
- Station C, about three-quarters of a mile east of the millsite; and

- Station D, approximately 0.5 mile upstream of the confluence of Montezuma Creek and Vega Creek.

Quantitative and qualitative data were collected along transects at Stations A, B, and C, and qualitative data only were collected at Station D. Results of the survey are documented in *An Aquatic Biology Survey of Montezuma Creek, Utah* (BIO/WEST 1988).

During the survey, biologists described the flow rate, stream gradient, flow depth, flow velocity, channel width, channel substrate, pool-riffle ratio, and aquatic vegetation at Stations A, B, and C. Water samples were collected and analyzed for temperature, pH, total alkalinity, iron, sulfate, and specific conductance. Periphyton, phytoplankton, benthic macroinvertebrates, and fish were surveyed to assess species composition, diversity, and abundance. Periphyton were collected by scraping cobbles, and phytoplankton were collected with plankton buckets. Benthic macroinvertebrates were collected with a modified Hess sampler at sites having cobble and rubble substrates and with a polar dredge at sites having sand or silt substrates. A generator-powered backpack electroshocker was used to sample for fish (BIO/WEST 1988).

The survey indicated that periphyton were relatively diverse and composed of species that were primarily alkaliphilious, tolerant of moderate to high conductivities, or relatively indifferent to water quality. A true plankton population was not found. Instead, the plankton component was composed of periphyton species entrained in the water column. Periphyton and plankton did not appear to be adversely affected by water quality within the soil and sediment area.

The survey also indicated that benthic macroinvertebrates were relatively abundant. Species composition mainly consisted of taxa that were tolerant to a wide range of water quality conditions. Invertebrate diversity and densities were highest in the downstream portions of the soil and sediment area (i.e., Middle and Lower Montezuma Creek).

Fish were absent throughout the soil and sediment area. Seasonal dewatering of the stream, especially before the construction of Loyd's Lake upstream of the soil and sediment area, was thought to be the principal reason for the lack of fish.

Vegetation Surveys

Western Resource Development Corporation conducted a vegetation survey in 1988. A plant ecologist mapped croplands and native vegetation types along Montezuma Creek and made quantitative field studies to estimate cover, production, and woody plant density for the three native vegetation types (riparian, mixed-shrub shrubland, and rubber-rabbitbrush shrubland). Results of the vegetation study are reported in *Monticello Remedial Action Project Peripheral Properties Vegetation Survey 1988, San Juan County* (Western Resource Development Corporation 1988) and in the RI/FS–EA (DOE 1990b).

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B2.0 References

Bendix Field Engineering Corporation, 1980. *1979 Environmental Monitoring Report—U.S. Department of Energy Facilities, Grand Junction, Colorado, and Monticello, Utah.*

———, 1982. *Stream Sediment Survey of South Creek and Montezuma Canyon*, Internal Memorandum, prepared by H.L. Fleischhauer, N. Korte, and P.M. Kearl, Bendix Field Engineering Corporation for the U.S. Department of Energy, Grand Junction Operations, Grand Junction, Colorado, November.

———, 1984. *Monticello Remedial Action Project Site Analysis Report*, GJ-10, prepared by I.N. Abramiuk, L.A. Blanchfield, E.T. Cotter, H.L. Fleischhauer, C.S. Goodknight, V.G. Johnson, K.E. Karp, P.M. Kearl, N.E. Korte, C.A. Ridolfi, R.R. Roquemore, D.W. Shaer, and J.M. Sewell, Bendix Field Engineering Corp. for U. S. Department of Energy Surplus Facilities Management Program, Richland, Washington, December.

———, 1985. *Radiologic Characterization of the Peripheral Properties Adjacent to the Monticello, Utah, Millsite*, GJ–26, prepared by S.J. Marutzky, C.A. Ridolfi, D.G. Traub, S.L. Knutson, and B.W. Walker, Bendix Field Engineering Corporation for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction Colorado, April.

BIO/WEST, Inc., 1988. An Aquatic Biology Survey of Montezuma Creek, Utah, prepared by BIO/WEST, Inc., prepared for UNC Geotech, Inc., for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado, September 26.

Dames & Moore, 1992. *Revised Final Report, Monticello Remedial Action Project, 1991 Millsite Characterization Study*, Vols. I and II, Salt Lake City, Utah, prepared for Chem-Nuclear Geotech, Inc. for the U. S. Department of Energy, Grand Junction Projects Office, Grand Junction Colorado, February 4.

Golder Associates, Inc., 1990. *Final Report, South Site Hydrogeologic and Geotechnical Investigation, Monticello Remedial Action Project, Monticello, Utah*, Vols. I, II, and III, prepared for UNC Geotech, Inc., for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado, May.

———, 1991. *Addendum Report, 1991 South Site Hydrogeologic and Geotechnical Investigation, Monticello Remedial Action Project, Monticello, Utah*, Vols. I, II, and III, prepared for Chem-Nuclear Geotech, Inc., for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado, July.

Korte, N.E., and R. Thul, 1981. *1980 Environmental Monitoring Report—U.S. Department of Energy Facilities, Grand Junction, Colorado, and Monticello, Utah.* BFEC-1981-3, Bendix Field Engineering Corporation, prepared for the U.S. Department of Energy, Grand Junction Operations, Grand Junction, Colorado, April.

———, 1982. *1981 Environmental Monitoring Report—U.S. Department of Energy Facilities, Grand Junction, Colorado, and Monticello, Utah.* BFEC-1982-4, Bendix Field Engineering Corporation, prepared for the U.S. Department of Energy, Grand Junction Operations, Grand Junction, Colorado, April.

———, 1983. *1982 Environmental Monitoring Report—U.S. Department of Energy Facilities, Grand Junction, Colorado, and Monticello, Utah.* GJO-113(83), Bendix Field Engineering Corporation, prepared for the U.S. Department of Energy, Grand Junction Operations Office, Grand Junction, Colorado, April.

———, 1984. *1983 Environmental Monitoring Report—U.S. Department of Energy Facilities, Grand Junction, Colorado, and Monticello, Utah.* GJO-113(84), Bendix Field Engineering Corporation, prepared for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado, April.

Korte N.E., and S. Wagner, 1985. *Environmental Monitoring Report on Department of Energy Facilities at Grand Junction, Colorado, and Monticello, Utah, for Calendar Year 1984.* GJ-30, Bendix Field Engineering Corporation, prepared for the U.S. Department of Energy, Grand Junction Project Office, Grand Junction, Colorado, March.

———, 1986. *Environmental Monitoring Report on Department of Energy Facilities at Grand Junction, Colorado, and Monticello, Utah, for Calendar Year 1985.* GJ-45, Bendix Field Engineering Corporation, prepared for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado, March.

Sewell, J.M., and L. Spencer, 1987. *Environmental Monitoring Report on Department of Energy Facilities at Grand Junction, Colorado, and Monticello, Utah, for Calendar Year 1986,* UNC/GJ-HWMP-2, UNC, for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado, March.

Tsivoglou, E.C., 1964. "Environmental Monitoring in the Vicinity of Uranium Mills," in *Proceedings of the Symposium on Radiological Health and Safety in Mining and Milling of Nuclear Materials.* International Atomic Energy Agency, STI/PUB/78, v. 2, p. 231-245.

Tsivoglou, E.C., A.F. Bartsch, D.E. Rushing, and D.A. Holaday, 1956. *Report of Survey of Contamination of Surface Waters by Uranium Recovery Plants.* U.S. Public Health Service, R.A. Taft Sanitary Engineering Center.

U.S. Department of Energy, 1988. *Environmental Monitoring Report on U.S. Department of Energy's Inactive Millsite Facility, Monticello, Utah, for Calendar Year 1987*, DOE/ID/12584–24, prepared by UNC Geotech for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado, March.

———, 1989. *Environmental Monitoring Report on U.S. Department of Energy's Inactive Millsite Facility, Monticello, Utah, for Calendar Year 1988*, DOE/ID/12584–40, prepared by UNC Geotech for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado, May.

———, 1990a. *Environmental Monitoring Report on U.S. Department of Energy's Inactive Millsite Facility, Monticello, Utah, for Calendar Year 1989*, DOE/ID/12584-67, prepared by UNC Geotech for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado, May.

———, 1990b. *Final Remedial Investigation/Feasibility Study—Environmental Assessment of the Monticello, Utah, Uranium Tailing Site*, Vols. I and II, DOE/EA/0424, prepared by UNC Geotech for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado, April.

———, 1991a. *Monticello Millsite Environmental Report for Calendar Year 1990*, DOE/ID/12584-87, prepared by Chem-Nuclear Geotech, Inc. for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado, May.

———, 1991b. *Monticello Millsite and Peripheral Properties Supplemental Data Release*, MR-E-91-3, prepared by K. Cary, S. Marutzky, J. Johnson, M. Madril, prepared by Chem-Nuclear Geotech, Inc., for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado, May.

———, 1992. *Environmental Monitoring Report on U.S. Department of Energy's Inactive Millsite Facility, Monticello, Utah, for Calendar Year 1997*, DOE/ID/12584-103, prepared by UNC Geotech for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, CO, May.

Western Resource Development Corporation, 1988. *Monticello Remedial Action Project Peripheral Properties Vegetation Survey, 1988, San Juan County, Utah*, WM-M-88-6, prepared for UNC Geotech, Inc., for the U.S. Department of Energy, Grand Junction Projects Office, Grand Junction, Colorado, October 31.

Whitman, A., and R.G. Beverly, 1958. *Radium Balance in the Monticello Acid R.I.P. Uranium Mill*, Topical Report WIN-113, U.S. Atomic Energy Commission, Raw Materials Development Laboratory.

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Annex B–1

September 1981—April 1992 Surface-Water Sampling Results

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Monticello Surface-Water Historical Data (September 1981 - April 1992)[a]

Sample Location	Sample Date	Ag (µg/L)	Al (µg/L)	Alkalinity (ppm)	Alpha (pCi/L)	As (µg/L)	Ba (µg/L)	Beta (pCi/L)	Ca (mg/L)	Cd (µg/L)	Conductivity (µmhos/cm)
Acid Seep	11/16/1982	No Data	<20	145	No Data	<20	110	No Data	168	No Data	1280
	04/30/1983	No Data	<10	231	No Data	<10	<100	No Data	220	No Data	2900
	05/29/1983	No Data	<10	340	No Data	<10	60	No Data	350	No Data	4872
	03/19/1984	No Data	100	132	No Data	<10	<100	No Data	272	No Data	3332
	04/09/1985	No Data	No Data	207	No Data	<10	200	No Data	93.9	No Data	2289
	06/10/1985	No Data	No Data	205	No Data	<10	<100	No Data	549	No Data	11110
Carbonate Seep	08/11/1982	No Data	<100	1611	No Data	424	<100	No Data	93	No Data	26000
	05/29/1983	No Data	50	118	No Data	20	40	No Data	51	No Data	360
	07/20/1983	No Data	No Data	No Data	No Data	3800	No Data	No Data	No Data	No Data	No Data
	05/21/1984	No Data	No Data	1625	No Data	1790	<100	No Data	33.8	No Data	4028
	04/09/1985	No Data	No Data	363	No Data	900	<100	No Data	49.7	No Data	1952
	04/09/1985	No Data	No Data	363	No Data	1000	<100	No Data	49.5	No Data	1952
	06/02/1986	No Data	No Data	603	No Data	1500	<100	No Data	39.	No Data	3675
	08/25/1986	No Data	No Data	154	No Data	1600	No Data	No Data	22.9	No Data	4523.
	10/20/1986	No Data	No Data	475	No Data	940	No Data	No Data	41.	No Data	1100.
	10/17/1988	No Data	No Data	407	1286	1000	No Data	404	No Data	No Data	2390
	05/11/1989	No Data	No Data	343	2805	1600	No Data	1132	No Data	No Data	2600
	10/18/1989	No Data	No Data	555	6425	1530	No Data	3376	No Data	No Data	4100
	04/11/1990	No Data	No Data	360	3127	540	No Data	726	No Data	No Data	2620
	10/17/1990	No Data	No Data	292	2612	400	No Data	No Data	No Data	No Data	2500
	06/24/1991	No Data	No Data	286	2970	127	No Data	No Data	No Data	No Data	2040
	10/20/1991	No Data	No Data	338	3300.	260.00	No Data	No Data	No Data	No Data	3850
	04/15/1992	No Data	No Data	304	2600	312	No Data	No Data	No Data	No Data	2040
Montezuma Canyon	11/14/1981	<.5	No Data	No Data	117	<5	90	No Data	No Data	<1	No Data
	04/26/1982	No Data	<50	No Data	No Data	<25	No Data	No Data	No Data	No Data	No Data
	10/19/1982	No Data	<100	275	No Data	<10	100	No Data	102	No Data	1000
	11/16/1982	No Data	<20	300	No Data	<20	80	No Data	133	No Data	920
	04/30/1983	No Data	80	130	No Data	<10	<100	No Data	50	No Data	320
	05/29/1983	No Data	20	123	No Data	<10	50	No Data	69	No Data	502
	09/19/1983	No Data	<100	255	No Data	<10	150	No Data	120	No Data	1100
	10/31/1983	No Data	50	210	No Data	<10	60	No Data	87	No Data	700
	03/19/1984	No Data	100	225	No Data	<10	120	No Data	131	No Data	1134
	04/18/1984	No Data	140	168	No Data	<10	<100	No Data	79	No Data	610
	05/21/1984	No Data	No Data	154	No Data	<10	<100	No Data	67.5	No Data	518
	07/23/1984	No Data	No Data	145	No Data	<10	<100	No Data	100	No Data	1352
	09/24/1984	No Data	No Data	223	No Data	<10	100	No Data	115	No Data	1400
	10/29/1984	No Data	No Data	234	No Data	<10	<100	No Data	147	No Data	1488
	04/09/1985	No Data	No Data	138	No Data	<10	<100	No Data	30.6	No Data	205
	06/10/1985	No Data	No Data	142	No Data	<10	<100	No Data	62.9	No Data	583

[a] A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "-" indicates an estimated value.

Monticello Surface-Water Historical Data (September 1981 - April 1992)[a]

Sample Location	Sample Date	Cl (mg/L)	Co (µg/L)	Cr (µg/L)	DO (mg/L)	Eh (mV)	F (mg/L)	Fe (µg/L)	Hg (µg/L)	K (mg/L)	Mg (mg/L)
Acid Seep	11/16/1982	40	No Data	No Data	No Data	170	No Data	<50	No Data	11.	29.2
	04/30/1983	35	No Data	No Data	6.1	140	No Data	<200	No Data	6.2	84
	05/29/1983	44	No Data	No Data	No Data	No Data	No Data	20	No Data	7.8	147
	03/19/1984	260	No Data	No Data	No Data	240	No Data	<100	No Data	7.45	69.1
	04/09/1985	20.4	No Data	No Data	No Data	No Data	No Data	<100	No Data	6.83	37.5
	06/10/1985	1130	No Data	No Data	No Data	155	No Data	100	No Data	38.7	836
Carbonate Seep	08/11/1982	2652	No Data	No Data	No Data	-200	1	140	No Data	325	350
	05/29/1983	15	No Data	No Data	No Data	No Data	No Data	80	No Data	2.8	7.3
	07/20/1983	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	05/21/1984	300	No Data	No Data	No Data	30	No Data	100	No Data	60	41
	04/09/1985	110	No Data	No Data	No Data	No Data	No Data	<100	No Data	29.8	32.8
	04/09/1985	130	No Data	No Data	No Data	No Data	No Data	<100	No Data	29.8	32.9
	06/02/1986	246.	No Data	No Data	No Data	140.	No Data	54	No Data	56.	52.
	08/25/1986	349.	No Data	No Data	No Data	170.	No Data	No Data	No Data	80.	56.
	10/20/1986	160.	No Data	No Data	No Data	165.	No Data	No Data	No Data	41.	32.
	10/17/1988	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	05/11/1989	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/18/1989	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/11/1990	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/17/1990	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	06/24/1991	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/20/1991	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/15/1992	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
Montezuma Canyon	11/14/1981	79	No Data	<5	No Data	No Data	<1	No Data	<2	No Data	No Data
	04/26/1982	59	<25	<25	No Data	No Data	<1	<100	No Data	No Data	No Data
	10/19/1982	98	No Data	No Data	No Data	200	No Data	<50	No Data	8	37
	11/16/1982	102	No Data	No Data	No Data	240	No Data	<50	No Data	7.0	42.4
	04/30/1983	16	No Data	No Data	No Data	180	No Data	<200	No Data	2.5	10
	05/29/1983	24	No Data	No Data	No Data	No Data	No Data	30	No Data	2.4	16
	09/19/1983	79	No Data	No Data	No Data	170	No Data	50	No Data	10	39
	10/31/1983	44	No Data	No Data	No Data	160	No Data	<100	No Data	6.7	21
	03/19/1984	82	No Data	No Data	No Data	180	No Data	<100	No Data	3.9	41
	04/18/1984	24	No Data	No Data	No Data	160	No Data	100	No Data	2.3	18.2
	05/21/1984	20	No Data	No Data	No Data	160	No Data	<100	No Data	2.4	16
	07/23/1984	74	No Data	No Data	No Data	145	No Data	<500	No Data	6.6	40
	09/24/1984	91	No Data	No Data	No Data	150	No Data	<500	No Data	6.7	44.8
	10/29/1984	120	No Data	No Data	No Data	170	No Data	<100	No Data	6.8	51.4
	04/09/1985	3	No Data	No Data	No Data	No Data	No Data	<100	No Data	1.98	4.56
	06/10/1985	21.1	No Data	No Data	No Data	150	No Data	<100	No Data	2.25	15.6

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "-" indicates an estimated value.

Monticello Surface-Water Historical Data (September 1981 - April 1992)[a]

Sample Location	Sample Date	Mn (µg/L)	Mo (µg/L)	Na (mg/L)	NH_4-N (µg/L)	NO_3 (µg/L)	Pb (µg/L)	Pb210 (pCi/L)	pH	PO_4 (mg/L)	Ra226 (pCi/L)
Acid Seep	11/16/1982	<50	700	266	No Data	70848	No Data	No Data	7.4	No Data	24
	04/30/1983	<200	2400	610	No Data	163836	No Data	No Data	8.3	<.153	No Data
	05/29/1983	<50	3000	1000	No Data	442800	No Data	No Data	8.5	<0.050	9.7
	03/19/1984	<100	1500	631	No Data	110700	No Data	No Data	7.7	No Data	No Data
	04/09/1985	<50	1540	430	No Data	27000	No Data	No Data	7.8	No Data	4
	06/10/1985	<50	<50	1760	No Data	34000	No Data	No Data	8.55	No Data	<1
Carbonate Seep	08/11/1982	310	8200	8890	No Data	61992	No Data	No Data	8.9	No Data	6
	05/29/1983	<50	100	31	No Data	<22140	No Data	No Data	8.6	<0.050	<2.0
	07/20/1983	No Data	2600	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	05/21/1984	<100	1370	848	No Data	<2000	No Data	No Data	9.4	No Data	No Data
	04/09/1985	<50	660	396	No Data	<1000	No Data	No Data	8.6	No Data	4
	04/09/1985	<50	660	395	No Data	<1000	No Data	No Data	8.6	No Data	5
	06/02/1986	23	124000	767.	No Data	<1000	No Data	No Data	9.0	No Data	No Data
	08/25/1986	No Data	790	970.	No Data	<1000	No Data	No Data	9.1	No Data	12.4
	10/20/1986	No Data	460	473.	No Data	No Data	No Data	No Data	8.5	No Data	No Data
	10/17/1988	No Data	350	No Data	No Data	300	No Data	No Data	8.62	No Data	7.7
	05/11/1989	No Data	470	No Data	No Data	60	No Data	No Data	8.80	No Data	9.4
	10/18/1989	No Data	751	No Data	No Data	200	No Data	No Data	8.43	No Data	14.2
	04/11/1990	No Data	430	No Data	No Data	110	No Data	No Data	8.40	No Data	5.4
	10/17/1990	No Data	358	No Data	No Data	350	No Data	No Data	7.30	No Data	11.9
	06/24/1991	No Data	169	No Data	160	80	No Data	No Data	8.22	No Data	8.4
	10/20/1991	No Data	135.00	No Data	No Data	190	No Data	No Data	8.13	No Data	10.4
	04/15/1992	No Data	198	No Data	No Data	-105	No Data	No Data	8.24	No Data	6.9
Montezuma Canyon	11/14/1981	No Data	20	No Data	No Data	8856	<1	No Data	No Data	<1	7.9
	04/26/1982	No Data	25	No Data	No Data	<4428	No Data	No Data	No Data	<1	No Data
	10/19/1982	420	<50	177	No Data	<8856	No Data	No Data	7.7	No Data	<2
	11/16/1982	440	<100	160	No Data	<4428	No Data	No Data	8.1	No Data	<2
	04/30/1983	<200	<10	20	No Data	No Data	No Data	No Data	8.2	<.153	No Data
	05/29/1983	50	<10	34	No Data	<22140	No Data	No Data	9.2	<0.050	No Data
	09/19/1983	200	50	149	No Data	<5000	No Data	No Data	7.8	No Data	<2
	10/31/1983	100	30	81	No Data	<5000	No Data	No Data	8.6	No Data	No Data
	03/19/1984	200	100	75	No Data	<4428	No Data	No Data	8.4	No Data	No Data
	04/18/1984	100	80	34.5	No Data	4428	No Data	No Data	8.6	No Data	No Data
	05/21/1984	<100	197	36.1	No Data	<2000	No Data	No Data	8.6	No Data	No Data
	07/23/1984	<500	<50	146	No Data	<100	No Data	No Data	6.9	No Data	No Data
	09/24/1984	<500	<50	159	No Data	<5000	No Data	No Data	8.2	No Data	No Data
	10/29/1984	170	<50	191	No Data	<5000	No Data	No Data	7.4	No Data	No Data
	04/09/1985	<50	<50	7.78	No Data	<1000	No Data	No Data	7.3	No Data	No Data
	06/10/1985	<50	<50	33.2	No Data	<1000	No Data	No Data	8.6	No Data	No Data

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "-" indicates an estimated value.

Monticello Surface-Water Historical Data (September 1981 - April 1992)[a]

Sample Location	Sample Date	Ra228 (pCi/L)	Se (µg/L)	Si (mg/L)	SO_4 (mg/L)	Temp (deg C)	Th230 (pCi/L)	U (µg/L)	U234 (pCi/L)	U238 (pCi/L)	V (µg/L)
Acid Seep	11/16/1982	No Data	<20	9.16	908	6.5	No Data	1500	No Data	No Data	<50
	04/30/1983	No Data	40	11	1700	15	No Data	2700	No Data	No Data	<50
	05/29/1983	No Data	60	11	2700	19	No Data	4700	No Data	No Data	<10
	03/19/1984	No Data	20	7.42	1900	7	No Data	4000	No Data	No Data	<50
	04/09/1985	No Data	20	7.8	1060	21	No Data	1700	No Data	No Data	<50
	06/10/1985	No Data	<10	.1	6960	24	No Data	50	No Data	No Data	<50
Carbonate Seep	08/11/1982	No Data	1300	11.8	10010	18	No Data	3100	No Data	No Data	95000
	05/29/1983	No Data	20	4.6	77	17	No Data	27	No Data	No Data	880
	07/20/1983	No Data	710	No Data	No Data	No Data	No Data	1100	No Data	No Data	75000
	05/21/1984	No Data	382	7.3	1000	22	No Data	1100	No Data	No Data	33000
	04/09/1985	No Data	200	5.0	560	15	No Data	900	No Data	No Data	16800
	04/09/1985	No Data	200	4.8	540	15	No Data	1000	No Data	No Data	16700
	06/02/1986	No Data	170	7.0	999.	15.5	No Data	1400	No Data	No Data	630
	08/25/1986	No Data	130	No Data	1160.	16.	No Data	2300	No Data	No Data	14000
	10/20/1986	No Data	<5	No Data	545.	12.5	No Data	1100	No Data	No Data	11000
	10/17/1988	<2.4	33	No Data	No Data	13.2	No Data	1600	No Data	No Data	350
	05/11/1989	<1.0	66	No Data	No Data	11.2	No Data	2000	No Data	No Data	17000
	10/18/1989	<5.0	43	No Data	No Data	12.8	No Data	8140	No Data	No Data	27700
	04/11/1990	<2	35	No Data	No Data	16.4	No Data	4500	No Data	No Data	10000
	10/17/1990	<5	6.1	No Data	No Data	12.3	No Data	No Data	1055	1111	6700
	06/24/1991	<3	37	No Data	No Data	15.0	No Data	No Data	1170	1166	6580
	10/20/1991	<4	<20.00	No Data	No Data	15.6	<4.1	No Data	1368	1415	2910.00
	04/15/1992	<3	40.1	No Data	No Data	16.7	2.9	No Data	1101.9	1111.9	6150
Montezuma Canyon	11/14/1981	<1	<5	No Data	285	No Data	No Data	178	No Data	No Data	<5
	04/26/1982	No Data	10	No Data	356	No Data	No Data	136	No Data	No Data	30
	10/19/1982	No Data	<10	3.5	512	4	No Data	159	No Data	No Data	<50
	11/16/1982	No Data	<20	3.64	454	3.5	No Data	182	No Data	No Data	<50
	04/30/1983	No Data	<10	4.5	84	6	No Data	15	No Data	No Data	<50
	05/29/1983	No Data	<10	4.8	150	18	No Data	32	No Data	No Data	<10
	09/19/1983	No Data	<10	2.4	450	14	No Data	100	No Data	No Data	<10
	10/31/1983	No Data	<10	4.6	200	7	No Data	100	No Data	No Data	60
	03/19/1984	No Data	<10	5.32	370	12	No Data	28	No Data	No Data	<50
	04/18/1984	No Data	<10	4.78	150	14	No Data	14	No Data	No Data	<50
	05/21/1984	No Data	<10	4.8	130	21	No Data	56	No Data	No Data	<50
	07/23/1984	No Data	<10	<1	496	13	No Data	120	No Data	No Data	<50
	09/24/1984	No Data	<10	3	460	19	No Data	40	No Data	No Data	<50
	10/29/1984	No Data	<10	2.4	580	13	No Data	124	No Data	No Data	<50
	04/09/1985	No Data	<5	4.1	30	11.5	No Data	<1	No Data	No Data	<50
	06/10/1985	No Data	<10	4.9	121	22	No Data	41	No Data	No Data	<50

[a] A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "-" indicates an estimated value.

Monticello Surface-Water Historical Data (September 1981 - April 1992)[a]

Sample Location	Sample Date	Zn (µg/L)
Acid Seep	11/16/1982	<50
	04/30/1983	<20
	05/29/1983	<50
	03/19/1984	100
	04/09/1985	240
	06/10/1985	<50
Carbonate Seep	08/11/1982	<50
	05/29/1983	<50
	07/20/1983	No Data
	05/21/1984	90
	04/09/1985	<50
	04/09/1985	<50
	06/02/1986	<10
	08/25/1986	No Data
	10/20/1986	No Data
	10/17/1988	No Data
	05/11/1989	No Data
	10/18/1989	No Data
	04/11/1990	No Data
	10/17/1990	No Data
	06/24/1991	No Data
	10/20/1991	No Data
	04/15/1992	No Data
Montezuma Canyon	11/14/1981	No Data
	04/26/1982	No Data
	10/19/1982	<50
	11/16/1982	50
	04/30/1983	100
	05/29/1983	<50
	09/19/1983	<20
	10/31/1983	150
	03/19/1984	<100
	04/18/1984	<100
	05/21/1984	80
	07/23/1984	80
	09/24/1984	420
	10/29/1984	890
	04/09/1985	<50
	06/10/1985	<50

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Monticello Surface-Water Historical Data (September 1981 - April 1992)[a]

Sample Location	Sample Date	Ag (μg/L)	Al (μg/L)	Alkalinity (ppm)	Alpha (pCi/L)	As (μg/L)	Ba (μg/L)	Beta (pCi/L)	Ca (mg/L)	Cd (μg/L)	Conductivity (μmhos/cm)
Montezuma Canyon	10/14/1985	No Data	No Data	167	No Data	<10	100	No Data	84.9	No Data	938
	06/02/1986	No Data	No Data	164	No Data	<5	<100	No Data	80.	No Data	780.
	08/25/1986	No Data	No Data	158	No Data	<5	No Data	No Data	82.	No Data	1013.
	10/20/1986	No Data	No Data	95	No Data	<5	No Data	No Data	116.	No Data	800.
	05/18/1987	No Data	No Data	121	No Data	<5	No Data	No Data	47.2	No Data	275.
	04/14/1988	No Data	No Data	303	<18	<5	No Data	<26	No Data	No Data	1487
	10/17/1988	No Data	No Data	164	35	<5	No Data	18	No Data	No Data	1490
	05/09/1989	No Data	No Data	177	89	<10	No Data	40	No Data	No Data	1828
	10/17/1989	No Data	No Data	259	<35	<10	No Data	41	No Data	No Data	1550
	04/10/1990	No Data	No Data	249	48	<10	No Data	<33	No Data	No Data	2010
	10/16/1990	No Data	No Data	222	<43	<10	No Data	No Data	No Data	No Data	1605
	06/24/1991	No Data	No Data	228	103	<10	No Data	No Data	No Data	No Data	1970
	10/20/1991	No Data	No Data	211	<40.	<3.00	No Data	No Data	No Data	No Data	1866
	04/14/1992	No Data	No Data	240	90	~2.3	No Data	No Data	No Data	No Data	1753
North Drainage	06/10/1985	No Data	No Data	183	No Data	<10	<100	No Data	51.2	No Data	448
	08/25/1986	No Data	No Data	324	No Data	<5	No Data	No Data	229.	No Data	1238.
	10/20/1986	No Data	No Data	180	No Data	<5	No Data	No Data	94.	No Data	600.
	04/14/1988	No Data	No Data	298	107	<5	No Data	32	No Data	No Data	1493
	04/14/1988	No Data	No Data	No Data	140	<5	No Data	26	No Data	No Data	No Data
	10/17/1988	No Data	No Data	330	25	<5	No Data	<15	No Data	No Data	994
	05/11/1989	No Data	No Data	337	102	<10	No Data	47	No Data	No Data	1739
	10/18/1989	No Data	No Data	277	23	<10	No Data	16	No Data	No Data	600
	06/24/1991	No Data	No Data	648	85	<10	No Data	No Data	No Data	No Data	2270
	04/14/1992	No Data	No Data	294	70	<2.0	No Data	No Data	No Data	No Data	1214
Sorenson	09/16/1981	2	No Data	No Data	206	6	150	No Data	No Data	<1	1375
	11/14/1981	.5	No Data	No Data	262	<5	700	No Data	No Data	<1	No Data
	04/26/1982	No Data	<50	284	No Data	<25	No Data	No Data	No Data	No Data	890
	08/11/1982	No Data	<100	258	No Data	<10	<100	No Data	112	No Data	1300
	09/22/1982	No Data	10	272	No Data	<10	48	No Data	128	No Data	1000
	10/19/1982	No Data	<100	240	No Data	<10	<100	No Data	94	No Data	900
	11/16/1982	No Data	<20	300	No Data	<20	60	No Data	141	No Data	790
	04/30/1983	No Data	40	121	No Data	<10	<100	No Data	40	No Data	240
	05/29/1983	No Data	40	106	No Data	<10	40	No Data	38	No Data	218
	07/20/1983	No Data	No Data	No Data	No Data	<10	No Data	No Data	No Data	No Data	No Data
	07/20/1983	No Data	No Data	No Data	No Data	<10	No Data	No Data	No Data	No Data	No Data
	09/19/1983	No Data	<100	364	No Data	<10	60	No Data	170	No Data	800
	10/31/1983	No Data	30	226	No Data	<10	50	No Data	95	No Data	730
	03/19/1984	No Data	<100	185	No Data	<10	<100	No Data	84.6	No Data	560
	04/18/1984	No Data	<100	127	No Data	<10	<100	No Data	57	No Data	326

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.

Monticello Surface-Water Historical Data (September 1981 - April 1992)[a]

Sample Location	Sample Date	Cl (mg/L)	Co (µg/L)	Cr (µg/L)	DO (mg/L)	Eh (mV)	F (mg/L)	Fe (µg/L)	Hg (µg/L)	K (mg/L)	Mg (mg/L)
Montezuma Canyon	10/14/1985	44.0	No Data	No Data	No Data	140	No Data	30	No Data	4	23.7
	06/02/1986	24.2	No Data	No Data	No Data	150.	No Data	<30	No Data	2.3	21.
	08/25/1986	42.9	No Data	No Data	No Data	160.	No Data	No Data	No Data	5.3	31.
	10/20/1986	90.6	No Data	No Data	No Data	125.	No Data	No Data	No Data	59.	44.
	05/18/1987	3.1	No Data	No Data	No Data	140.	No Data	<100	No Data	0.70	5.9
	04/14/1988	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/17/1988	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	05/09/1989	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/17/1989	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/10/1990	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/16/1990	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	06/24/1991	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/20/1991	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/14/1992	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
North Drainage	06/10/1985	6.8	No Data	No Data	No Data	150	No Data	<100	No Data	1.60	10.1
	08/25/1986	32.4	No Data	No Data	No Data	170.	No Data	No Data	No Data	4.4	46.
	10/20/1986	61.3	No Data	No Data	No Data	130.	No Data	No Data	No Data	7.4	17.
	04/14/1988	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/14/1988	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/17/1988	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	05/11/1989	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/18/1989	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	06/24/1991	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/14/1992	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
Soremson	09/16/1981	76	No Data	<5	No Data	No Data	<1	No Data	<2	No Data	No Data
	11/14/1981	55	No Data	<5	No Data	No Data	<1	No Data	<2	No Data	No Data
	04/26/1982	24	<25	<25	No Data	No Data	<1	<100	No Data	No Data	No Data
	08/11/1982	39	No Data	No Data	No Data	40	<1	100	No Data	8	35
	09/22/1982	42	No Data	No Data	No Data	180	No Data	100	No Data	11	33
	10/19/1982	42	No Data	No Data	No Data	30	No Data	50	No Data	9	28
	11/16/1982	48	No Data	No Data	No Data	100	No Data	<50	No Data	7.7	30.4
	04/30/1983	2	No Data	No Data	No Data	170	No Data	<200	No Data	2.2	5.6
	05/29/1983	5	No Data	No Data	No Data	No Data	No Data	40	No Data	1.1	5.5
	07/20/1983	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	07/20/1983	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	09/19/1983	66	No Data	No Data	No Data	190	No Data	100	No Data	14	46
	10/31/1983	17	No Data	No Data	No Data	120	No Data	<100	No Data	6	19
	03/19/1984	9	No Data	No Data	No Data	200	No Data	<100	No Data	2.3	17.4
	04/18/1984	7	No Data	No Data	No Data	170	No Data	100	No Data	1.4	7.5

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Monticello Surface-Water Historical Data (September 1981 - April 1992)[a]

Sample Location	Sample Date	Mn (µg/L)	Mo (µg/L)	Na (mg/L)	NH_4-N (µg/L)	NO_3 (µg/L)	Pb (µg/L)	Pb210 (pCi/L)	pH	PO_4 (mg/L)	Ra226 (pCi/L)
Montezuma Canyon	10/14/1985	110	<10	75.4	No Data	9000	No Data	No Data	8.2	<0.1	No Data
	06/02/1986	17	<50	34.	No Data	2000	No Data	No Data	8.5	No Data	No Data
	08/25/1986	No Data	<50	114.	No Data	<1000	No Data	No Data	8.2	No Data	No Data
	10/20/1986	No Data	<50	129.	No Data	No Data	No Data	No Data	7.65	No Data	No Data
	05/18/1987	<25	<50	9.	No Data	<500	No Data	No Data	7.7	No Data	No Data
	04/14/1988	No Data	<50	No Data	No Data	1200	No Data	No Data	8.48	No Data	0.3
	10/17/1988	No Data	<50	No Data	No Data	5600	No Data	No Data	8.06	No Data	0.3
	05/09/1989	No Data	20	No Data	No Data	80	No Data	No Data	8.11	No Data	0.3
	10/17/1989	No Data	<10	No Data	No Data	170	No Data	No Data	7.95	No Data	0.2
	04/10/1990	No Data	15	No Data	No Data	140	No Data	No Data	8.00	No Data	0.1
	10/16/1990	No Data	<10	No Data	No Data	210	No Data	No Data	7.72	No Data	<1.7
	06/24/1991	No Data	31	No Data	110	60	No Data	No Data	8.02	No Data	0.2
	10/20/1991	No Data	<18.00	No Data	No Data	160	No Data	No Data	7.70	No Data	0.1
	04/14/1992	No Data	<21.0	No Data	No Data	~431	No Data	No Data	7.76	No Data	0.2
North Drainage	06/10/1985	<50	60	15.0	No Data	4000	No Data	No Data	8.6	No Data	1
	08/25/1986	No Data	<50	76.	No Data	<1000	No Data	No Data	7.65	No Data	6.4
	10/20/1986	No Data	<50	60.	No Data	No Data	No Data	No Data	7.8	No Data	No Data
	04/14/1988	No Data	<50	No Data	No Data	10100	No Data	No Data	7.95	No Data	3.7
	04/14/1988	No Data	<50	No Data	No Data	10000	No Data	No Data	No Data	No Data	3.6
	10/17/1988	No Data	<50	No Data	No Data	6700	No Data	No Data	8.43	No Data	2.8
	05/11/1989	No Data	<10	No Data	No Data	12500	No Data	No Data	7.81	No Data	1.6
	10/18/1989	No Data	<10	No Data	No Data	34400	No Data	No Data	7.60	No Data	3.3
	06/24/1991	No Data	<10	No Data	54700	1350	No Data	No Data	8.04	No Data	6.6
	04/14/1992	No Data	<21.0	No Data	No Data	2110	No Data	No Data	8.16	No Data	4.9
Sorenson	09/16/1981	No Data	90	No Data	No Data	<4	<2	No Data	8.4	<1	8.2
	11/14/1981	No Data	95	No Data	No Data	8856	1	No Data	No Data	<1	9.1
	04/26/1982	No Data	91	No Data	No Data	4428	No Data	No Data	8.2	<1	<2
	08/11/1982	90	<50	133	No Data	<4428	No Data	No Data	7.8	No Data	No Data
	09/22/1982	100	140	139	No Data	<4428	No Data	No Data	7.5	No Data	<2
	10/19/1982	<50	50	105	No Data	<8856	No Data	No Data	7.9	No Data	No Data
	11/16/1982	110	<100	98	No Data	<4428	No Data	No Data	8.2	No Data	<2
	04/30/1983	<200	<10	7.0	No Data	No Data	No Data	<2	8.1	<.153	<2.0
	05/29/1983	<50	<10	9.1	No Data	<22140	No Data	No Data	8.0	<0.050	<2.0
	07/20/1983	No Data	110	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	07/20/1983	No Data	110	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	09/19/1983	200	90	148	No Data	<5000	No Data	No Data	7.9	No Data	<2.0
	10/31/1983	100	40	55	No Data	<5000	No Data	No Data	8.3	No Data	No Data
	03/19/1984	200	<50	44.9	No Data	<4428	No Data	No Data	8.3	No Data	No Data
	04/18/1984	<100	70	14.8	No Data	<4428	No Data	No Data	8.5	No Data	No Data

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "-" indicates an estimated value.

Monticello Surface-Water Historical Data (September 1981 - April 1992)[a]

Sample Location	Sample Date	Ra228 (pCi/L)	Se (μg/L)	Si (mg/L)	SO_4 (mg/L)	Temp (deg C)	Th230 (pCi/L)	U (μg/L)	U234 (pCi/L)	U238 (pCi/L)	V (μg/L)
Montezuma Canyon	10/14/1985	No Data	<5	3.8	199	11.5	No Data	44	No Data	No Data	10
	06/02/1986	No Data	<5	3.3	172.	19.5	No Data	38	No Data	No Data	<50
	08/25/1986	No Data	<5	No Data	322.	23.	No Data	100	No Data	No Data	10
	10/20/1986	No Data	<5	No Data	472.	6.5	No Data	100	No Data	No Data	<50
	05/18/1987	No Data	<5	No Data	46.5	14.5	No Data	4	No Data	No Data	<50
	04/14/1988	<1.2	<5	No Data	No Data	9.6	No Data	26	No Data	No Data	<50
	10/17/1988	<0.9	<5	No Data	No Data	13.7	No Data	79	No Data	No Data	<50
	05/09/1989	<1.0	<5	No Data	No Data	19.0	No Data	140	No Data	No Data	<50
	10/17/1989	<2.0	<5	No Data	No Data	10.9	No Data	34	No Data	No Data	<50
	04/10/1990	<1	<5	No Data	No Data	15.5	No Data	120	No Data	No Data	<50
	10/16/1990	<2	<5	No Data	No Data	11.4	No Data	No Data	6.6	5.6	<50
	06/24/1991	<2	<5	No Data	No Data	9.4	No Data	No Data	58.3	58.4	<50
	10/20/1991	<2	<2.00	No Data	No Data	11.2	<0.8	No Data	10.3	8.9	<10.00
	04/14/1992	<2	<2.0	No Data	No Data	18.1	0.40	No Data	54.9	54.7	<7.0
North Drainage	06/10/1985	No Data	<10	4.8	75.4	25	No Data	21	No Data	No Data	90
	08/25/1986	No Data	5	No Data	529.	17.	No Data	43.	No Data	No Data	<50
	10/20/1986	No Data	<5	No Data	116.	6.	No Data	17	No Data	No Data	<50
	04/14/1988	<1.2	<5	No Data	No Data	9.9	No Data	199	No Data	No Data	<50
	04/14/1988	<1.2	<5	No Data	No Data	No Data	No Data	197	No Data	No Data	<50
	10/17/1988	<1.5	<5	No Data	No Data	12.8	No Data	67	No Data	No Data	<50
	05/11/1989	<1.0	14	No Data	No Data	6.7	No Data	190	No Data	No Data	<50
	10/18/1989	<3.0	16	No Data	No Data	12.9	No Data	41	No Data	No Data	<50
	06/24/1991	<3	<5	No Data	No Data	15.0	No Data	No Data	34.2	29.3	<50
	04/14/1992	<2	~2.0	No Data	No Data	16.2	0.36	No Data	19.9	19.8	~17.8
Sorenson	09/16/1981	<1	10	No Data	464	No Data	No Data	441	No Data	No Data	100
	11/14/1981	<1	15	No Data	338	No Data	No Data	823	No Data	No Data	70
	04/26/1982	No Data	27	No Data	291	14	No Data	246	No Data	No Data	178
	08/11/1982	No Data	<10	5.4	452	24	No Data	100	No Data	No Data	<50
	09/22/1982	No Data	15	2.89	338	12	No Data	519	No Data	No Data	110
	10/19/1982	No Data	12	4.0	392	13	No Data	377	No Data	No Data	160
	11/16/1982	No Data	<20	6.24	350	4	No Data	382	No Data	No Data	220
	04/30/1983	No Data	<10	4.1	34	9	No Data	13	No Data	No Data	<50
	05/29/1983	No Data	<10	4.7	39	10	No Data	17	No Data	No Data	<10
	07/20/1983	No Data	10	No Data	No Data	No Data	No Data	400	No Data	No Data	90
	07/20/1983	No Data	<10	No Data	No Data	No Data	No Data	510	No Data	No Data	70
	09/19/1983	No Data	<10	5.0	540	9	No Data	500	No Data	No Data	60
	10/31/1983	No Data	<10	6.1	180	12	No Data	200	No Data	No Data	110
	03/19/1984	No Data	<10	5.32	170	5	No Data	13	No Data	No Data	<50
	04/18/1984	No Data	<10	4.72	69	15	No Data	24	No Data	No Data	<50

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.

Monticello Surface-Water Historical Data (September 1981 - April 1992)[a]

Sample Location	Sample Date	Zn (μg/L)
Montezuma Canyon	10/14/1985	<5
	06/02/1986	<10
	08/25/1986	No Data
	10/20/1986	No Data
	05/18/1987	No Data
	04/14/1988	No Data
	10/17/1988	No Data
	05/09/1989	No Data
	10/17/1989	No Data
	04/10/1990	No Data
	10/16/1990	No Data
	06/24/1991	No Data
	10/20/1991	No Data
	04/14/1992	No Data
North Drainage	06/10/1985	<50
	08/25/1986	No Data
	10/20/1986	No Data
	04/14/1988	No Data
	04/14/1988	No Data
	10/17/1988	No Data
	05/11/1989	No Data
	10/18/1989	No Data
	06/24/1991	No Data
	04/14/1992	No Data
Soremson	09/16/1981	No Data
	11/14/1981	No Data
	04/26/1982	No Data
	08/11/1982	120
	09/22/1982	<50
	10/19/1982	<50
	11/16/1982	<50
	04/30/1983	20
	05/29/1983	<50
	07/20/1983	No Data
	07/20/1983	No Data
	09/19/1983	<20
	10/31/1983	50
	03/19/1984	<100
	04/18/1984	<100

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "-" indicates an estimated value.

Monticello Surface-Water Historical Data (September 1981 - April 1992)[a]

Sample Location	Sample Date	Ag (µg/L)	Al (µg/L)	Alkalinity (ppm)	Alpha (pCi/L)	As (µg/L)	Ba (µg/L)	Beta (pCi/L)	Ca (mg/L)	Cd (µg/L)	Conductivity (µmhos/cm)
Sorenson	05/21/1984	No Data	No Data	132	No Data	<10	<100	No Data	58.5	No Data	354
	07/23/1984	No Data	No Data	248	No Data	<10	<100	No Data	178	No Data	1416
	09/24/1984	No Data	No Data	275	No Data	<10	<100	No Data	157	No Data	1450
	10/29/1984	No Data	No Data	288	No Data	<10	<100	No Data	148	No Data	1250
	06/02/1986	No Data	No Data	156	No Data	<5	<100	No Data	81.	No Data	638.
	08/25/1986	No Data	No Data	240	No Data	7	No Data	No Data	125.	No Data	994.
	04/14/1988	No Data	No Data	285	136	<5	No Data	27	No Data	No Data	1794
	10/17/1988	No Data	No Data	232	82	<5	No Data	29	No Data	No Data	1870
	05/09/1989	No Data	No Data	246	298	<10	No Data	129	No Data	No Data	1750
	10/17/1989	No Data	No Data	353	455	<10	No Data	187	No Data	No Data	1900
	04/10/1990	No Data	No Data	285	272	<10	No Data	63	No Data	No Data	2420
	10/16/1990	No Data	No Data	303	322	<10	No Data	No Data	No Data	No Data	2170
	06/24/1991	No Data	No Data	273	133	<10	No Data	No Data	No Data	No Data	2110
	10/20/1991	No Data	No Data	305	320.	<3.00	No Data	No Data	No Data	No Data	2160
	04/14/1992	No Data	No Data	275	120	~2.4	No Data	No Data	No Data	No Data	1453
Vanadium Seep	09/16/1981	10	No Data	No Data	1390	695	800	No Data	No Data	<1	3420
	11/16/1982	No Data	5000	125	No Data	21	<50	No Data	138	No Data	3050
	07/21/1983	No Data	14000	8600	No Data	26000	80	No Data	32	No Data	40500
	03/19/1984	No Data	470	660	No Data	1150	<100	No Data	18.4	No Data	47200
	04/09/1985	No Data	No Data	2163	No Data	5200	<100	No Data	5.30	No Data	9102
	06/10/1985	No Data	No Data	585	No Data	1530	<100	No Data	24.4	No Data	3586
	10/14/1985	No Data	No Data	357	No Data	840	<100	No Data	46.0	No Data	2376
	10/14/1985	No Data	No Data	2185	No Data	5400	<100	No Data	3.40	No Data	9425
	10/14/1985	No Data	No Data	2185	No Data	5800	<100	No Data	3.40	No Data	9425
	08/25/1986	No Data	No Data	1285	No Data	2300	No Data	No Data	112.	No Data	19942.
	04/14/1988	No Data	No Data	2150	24303	4950	No Data	14801	No Data	No Data	10292
W-2	09/16/1981	16	No Data	No Data	826	2600	170	No Data	No Data	<1	10650
	11/14/1981	8	No Data	No Data	991	3300	50	No Data	No Data	<1	No Data
	04/26/1982	No Data	70	990	No Data	2600	No Data	No Data	No Data	No Data	5500
	08/11/1982	No Data	365	961	No Data	332	<100	No Data	122	No Data	10500
	09/22/1982	No Data	20	495	No Data	880	72	No Data	50	No Data	15000
	10/19/1982	No Data	<100	795	No Data	1920	<100	No Data	23	No Data	11000
	11/16/1982	No Data	40	435	No Data	153	120	No Data	206	No Data	1120
	04/30/1983	No Data	10	362	No Data	80	<100	No Data	200	No Data	1295
	07/20/1983	No Data	No Data	No Data	No Data	190	No Data	No Data	No Data	No Data	No Data
	09/19/1983	No Data	200	1020	No Data	3300	50	No Data	140	No Data	6000
	10/31/1983	No Data	<10	400	No Data	450	50	No Data	200	No Data	2300
	03/19/1984	No Data	<100	338	No Data	125	<100	No Data	203	No Data	1792
	04/18/1984	No Data	<100	476	No Data	847	<100	No Data	130	No Data	4092

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.

Monticello Surface-Water Historical Data (September 1981 - April 1992)[a]

Sample Location	Sample Date	Cl (mg/L)	Co (µg/L)	Cr (µg/L)	DO (mg/L)	Eh (mV)	F (mg/L)	Fe (µg/L)	Hg (µg/L)	K (mg/L)	Mg (mg/L)
Sorenson	05/21/1984	7	No Data	No Data	No Data	170	No Data	<100	No Data	2.3	9.8
	07/23/1984	75	No Data	No Data	No Data	155	No Data	<500	No Data	9.2	53
	09/24/1984	76	No Data	No Data	No Data	150	No Data	<500	No Data	9.1	50.0
	10/29/1984	67	No Data	No Data	No Data	150	No Data	150	No Data	7.6	45.4
	06/02/1986	10.6	No Data	No Data	No Data	160.	No Data	<30	No Data	2.1	14.
	08/25/1986	31.0	No Data	No Data	No Data	170	No Data	No Data	No Data	8.5	28.
	04/14/1988	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/17/1988	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	05/09/1989	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/17/1989	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/10/1990	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/16/1990	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	06/24/1991	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/20/1991	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/14/1992	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
Vanadium Seep	09/16/1981	116	No Data	20	No Data	No Data	<1	No Data	<2	No Data	No Data
	11/16/1982	98	No Data	No Data	No Data	200	No Data	<50	No Data	13.	53.6
	07/21/1983	1000	No Data	No Data	No Data	No Data	No Data	340	No Data	295	3.9
	03/19/1984	76	No Data	No Data	No Data	190	No Data	100	No Data	21.1	8.4
	04/09/1985	270	No Data	No Data	No Data	No Data	No Data	200	No Data	58.5	3.26
	06/10/1985	309	No Data	No Data	No Data	130	No Data	<100	No Data	70.8	60.0
	10/14/1985	198	No Data	No Data	No Data	140	No Data	100	No Data	26	28.6
	10/14/1985	177	No Data	No Data	No Data	100	No Data	120	No Data	50	064
	10/14/1985	182	No Data	No Data	No Data	100	No Data	120	No Data	50	0.65
	08/25/1986	278.	No Data	No Data	No Data	180.	No Data	No Data	No Data	66.	32.
	04/14/1988	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
W-2	09/16/1981	723	No Data	<5	No Data	No Data	<1	No Data	<2	No Data	No Data
	11/14/1981	1517	No Data	<5	No Data	No Data	2	No Data	<2	No Data	No Data
	04/26/1982	1389	<25	<25	No Data	No Data	<1	<100	No Data	No Data	No Data
	08/11/1982	1970	No Data	No Data	No Data	200	2	110	No Data	194	138
	09/22/1982	1488	No Data	No Data	No Data	60	No Data	<50	No Data	232	71
	10/19/1982	1968	No Data	No Data	No Data	10	No Data	<50	No Data	224	74
	11/16/1982	137	No Data	No Data	No Data	90	No Data	<50	No Data	22.	45.7
	04/30/1983	62	No Data	No Data	9.9	180	No Data	<200	No Data	6.6	44
	07/20/1983	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	09/19/1983	1500	No Data	No Data	No Data	90	No Data	50	No Data	190	120
	10/31/1983	250	No Data	No Data	No Data	120	No Data	<100	No Data	26	58
	03/19/1984	120	No Data	No Data	No Data	190	No Data	<100	No Data	10.6	46
	04/18/1984	490	No Data	No Data	No Data	190	No Data	100	No Data	49	50

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "-" indicates an estimated value.

Monticello Surface-Water Historical Data (September 1981 - April 1992)[a]

Sample Location	Sample Date	Mn (µg/L)	Mo (µg/L)	Na (mg/L)	NH_4-N (µg/L)	NO_3 (µg/L)	Pb (µg/L)	Pb210 (pCi/L)	pH	PO_4 (mg/L)	Ra226 (pCi/L)
Sorenson	05/21/1984	100	211	27.1	No Data	<2000	No Data	No Data	8.1	No Data	No Data
	07/23/1984	<500	70	150	No Data	400	No Data	No Data	7.3	No Data	No Data
	09/24/1984	<500	<50	152	No Data	<5000	No Data	No Data	8.1	No Data	No Data
	10/29/1984	130	<50	161	No Data	<5000	No Data	No Data	7.4	No Data	No Data
	06/02/1986	51	<50	26.	No Data	3000	No Data	No Data	8.1	No Data	No Data
	08/25/1986	No Data	<50	100.	No Data	2500	No Data	No Data	8.1	No Data	No Data
	04/14/1988	No Data	<50	No Data	No Data	24500	No Data	No Data	7.81	No Data	0.6
	10/17/1988	No Data	<50	No Data	No Data	32200	No Data	No Data	8.10	No Data	0.5
	05/09/1989	No Data	60	No Data	No Data	10500	No Data	No Data	7.99	No Data	0.8
	10/17/1989	No Data	49	No Data	No Data	1120	No Data	No Data	7.85	No Data	1.6
	04/10/1990	No Data	45	No Data	No Data	210	No Data	No Data	8.15	No Data	1.2
	10/16/1990	No Data	34	No Data	No Data	160	No Data	No Data	8.11	No Data	<1.5
	06/24/1991	No Data	19	No Data	140	260	No Data	No Data	7.99	No Data	0.3
	10/20/1991	No Data	~24.20	No Data	No Data	170	No Data	No Data	8.18	No Data	0.5
	04/14/1992	No Data	~27.3	No Data	No Data	~539	No Data	No Data	7.17	No Data	0.4
Vanadium Seep	09/16/1981	No Data	560	No Data	No Data	<4	30	No Data	9.6	<1	17.2
	11/16/1982	7380	800	1246	No Data	8856	No Data	No Data	6.5	No Data	<2
	07/21/1983	295000	26000	15000	No Data	<2000	No Data	No Data	No Data	No Data	4.6
	03/19/1984	100	1650	1109	No Data	<4428	No Data	No Data	9.0	No Data	No Data
	04/09/1985	<50	5180	2590	No Data	<1000	No Data	No Data	9.9	No Data	1
	06/10/1985	<50	1200	795	No Data	<1000	No Data	No Data	9.1	No Data	8
	10/14/1985	<10	600	438	No Data	<1000	No Data	No Data	8.5	<0.1	8.0
	10/14/1985	<10	3910	2488	No Data	22000	No Data	No Data	10.2	1.2	6.6
	10/14/1985	<10	1080	2482	No Data	20000	No Data	No Data	10.2	1.4	6.4
	08/25/1986	No Data	<50	5160.	No Data	5900	No Data	No Data	8.9	No Data	<1.0
	04/14/1988	No Data	4330	No Data	No Data	<200	No Data	No Data	9.97	No Data	<0.3
W-2	09/16/1981	No Data	7700	No Data	No Data	110700	3	No Data	9.9	<1	9.8
	11/14/1981	No Data	8900	No Data	No Data	834464	2	No Data	No Data	<1	10.0
	04/26/1982	No Data	8830	No Data	No Data	141696	No Data	No Data	9.3	<1	9
	08/11/1982	180	4500	3050	No Data	216972	No Data	No Data	8.9	No Data	3
	09/22/1982	<100	9790	3540	No Data	225828	No Data	No Data	10.1	No Data	<2
	10/19/1982	<50	9830	3145	No Data	500364	No Data	No Data	10.0	No Data	9
	11/16/1982	<50	400	207	No Data	17712	No Data	No Data	7.9	No Data	6
	04/30/1983	<200	180	100	No Data	No Data	No Data	No Data	8.3	<.153	<2.0
	07/20/1983	No Data	850	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	09/19/1983	300	7800	2750	No Data	170000	No Data	No Data	8.8	No Data	9
	10/31/1983	<100	1100	440	No Data	44000	No Data	No Data	8.6	No Data	5.8
	03/19/1984	100	400	185	No Data	22140	No Data	No Data	8.3	No Data	No Data
	04/18/1984	100	2430	840	No Data	57564	No Data	No Data	8.9	No Data	No Data

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "-" indicates an estimated value.

Monticello Surface-Water Historical Data (September 1981 - April 1992)[a]

Sample Location	Sample Date	Ra228 (pCi/L)	Se (µg/L)	Si (mg/L)	SO_4 (mg/L)	Temp (deg C)	Th230 (pCi/L)	U (µg/L)	U234 (pCi/L)	U238 (pCi/L)	V (µg/L)
Sorenson	05/21/1984	No Data	<10	5.6	87	14	No Data	110	No Data	No Data	<50
	07/23/1984	No Data	20	6	644	15.5	No Data	476	No Data	No Data	70
	09/24/1984	No Data	10	5	600	17	No Data	300	No Data	No Data	<50
	10/29/1984	No Data	<10	4.4	530	12.5	No Data	200	No Data	No Data	<50
	06/02/1986	No Data	8	5.4	148.	17.5	No Data	66	No Data	No Data	<50
	08/25/1986	No Data	7	No Data	303.	24.	No Data	300	No Data	No Data	10
	04/14/1988	<0.8	7	No Data	No Data	11.0	No Data	219	No Data	No Data	125
	10/17/1988	<0.6	<5	No Data	No Data	15.0	No Data	150	No Data	No Data	74
	05/09/1989	<1.0	31	No Data	No Data	18.2	No Data	460	No Data	No Data	90
	10/17/1989	<2.0	5	No Data	No Data	11.2	No Data	498	No Data	No Data	<50
	04/10/1990	<1	<5	No Data	No Data	16.3	No Data	410	No Data	No Data	<50
	10/16/1990	<3	<5	No Data	No Data	12.6	No Data	No Data	151	154	<50
	06/24/1991	<2	12	No Data	No Data	9.2	No Data	No Data	99.8	101	<50
	10/20/1991	<2	~2.50	No Data	No Data	13.8	5.0	No Data	170	159	<10.00
	04/14/1992	<2	~2.8	No Data	No Data	19.2	3.1	No Data	149.8	148.9	~43.2
Vanadium Seep	09/16/1981	<1	70	No Data	1052	No Data	No Data	4071	No Data	No Data	8400
	11/16/1982	No Data	533	2.12	2801	1.5	No Data	247	No Data	No Data	13500
	07/21/1983	No Data	2200	3.3	19000	29	No Data	192000	No Data	No Data	830000
	03/19/1984	No Data	392	1.20	1700	16	No Data	17000	No Data	No Data	<50
	04/09/1985	No Data	2100	0.5	2900	19	No Data	36200	No Data	No Data	352000
	06/10/1985	No Data	270	9.6	1120	24	No Data	2200	No Data	No Data	19400
	10/14/1985	No Data	100	4.8	607	12	No Data	900	No Data	No Data	9320
	10/14/1985	No Data	1700	<.1	2710	8	No Data	24300	No Data	No Data	356000
	10/14/1985	No Data	1800	<.1	2760	8	No Data	33700	No Data	No Data	335000
	08/25/1986	No Data	2700	No Data	10100.	17.	No Data	52600	No Data	No Data	360000
	04/14/1988	<2.7	1520	No Data	No Data	22.7	No Data	41500	No Data	No Data	317000
W-2	09/16/1981	<1	2500	No Data	2096	No Data	No Data	416	No Data	No Data	140000
	11/14/1981	<1	1800	No Data	3006	No Data	No Data	2765	No Data	No Data	115000
	04/26/1982	No Data	1800	No Data	3605	18	No Data	1120	No Data	No Data	116000
	08/11/1982	No Data	1000	9.6	4250	17.5	No Data	1500	No Data	No Data	86000
	09/22/1982	No Data	1080	1.42	4414	27	No Data	700	No Data	No Data	105000
	10/19/1982	No Data	1550	1.4	5120	16	No Data	1400	No Data	No Data	116000
	11/16/1982	No Data	71	7.40	487	1	No Data	388	No Data	No Data	4700
	04/30/1983	No Data	80	5.4	470	5	No Data	160	No Data	No Data	2500
	07/20/1983	No Data	230	No Data	No Data	No Data	No Data	280	No Data	No Data	8700
	09/19/1983	No Data	3100	8.7	3700	8	No Data	1800	No Data	No Data	100000
	10/31/1983	No Data	520	7	920	7	No Data	400	No Data	No Data	16000
	03/19/1984	No Data	81	5.07	580	11	No Data	300	No Data	No Data	4980
	04/18/1984	No Data	796	3.68	1200	13	No Data	600	No Data	No Data	<50

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "-" indicates an estimated value.

Monticello Surface-Water Historical Data (September 1981 - April 1992)[a]

Sample Location	Sample Date	Zn (μg/L)
Sorenson	05/21/1984	60
	07/23/1984	1440
	09/24/1984	500
	10/29/1984	1290
	06/02/1986	<10
	08/25/1986	No Data
	04/14/1988	No Data
	10/17/1988	No Data
	05/09/1989	No Data
	10/17/1989	No Data
	04/10/1990	No Data
	10/16/1990	No Data
	06/24/1991	No Data
	10/20/1991	No Data
	04/14/1992	No Data
Vanadium Seep	09/16/1981	No Data
	11/16/1982	950
	07/21/1983	50
	03/19/1984	<100
	04/09/1985	<50
	06/10/1985	<50
	10/14/1985	<5
	10/14/1985	<5
	10/14/1985	<5
	08/25/1986	No Data
	04/14/1988	No Data
W-2	09/16/1981	No Data
	11/14/1981	No Data
	04/26/1982	No Data
	08/11/1982	<50
	09/22/1982	<50
	10/19/1982	<50
	11/16/1982	<50
	04/30/1983	30
	07/20/1983	No Data
	09/19/1983	<20
	10/31/1983	50
	03/19/1984	<100
	04/18/1984	<100

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.

Monticello Surface-Water Historical Data (September 1981 - April 1992)[a]

Sample Location	Sample Date	Ag (µg/L)	Al (µg/L)	Alkalinity (ppm)	Alpha (pCi/L)	As (µg/L)	Ba (µg/L)	Beta (pCi/L)	Ca (mg/L)	Cd (µg/L)	Conductivity (µmhos/cm)
W-2	05/21/1984	No Data	No Data	147	No Data	24	<100	No Data	45.2	No Data	399
	07/23/1984	No Data	No Data	860	No Data	1760	<100	No Data	48	No Data	11700
	09/24/1984	No Data	No Data	1110	No Data	3180	<100	No Data	70.4	No Data	12350
	10/29/1984	No Data	No Data	830	No Data	2400	<100	No Data	31.7	No Data	9300
	04/09/1985	No Data	No Data	975	No Data	3500	<100	No Data	25.4	No Data	9230
	06/10/1985	No Data	No Data	1135	No Data	3190	100	No Data	23.2	No Data	10780
	10/14/1985	No Data	No Data	711	No Data	2200	100	No Data	49.6	No Data	7424
	06/02/1986	No Data	No Data	1507	No Data	2200	<100	No Data	65.	No Data	8925.
	08/25/1986	No Data	No Data	1000	No Data	1600	No Data	No Data	75.2	No Data	9422.
	10/20/1986	No Data	No Data	799.1	No Data	1500	No Data	No Data	37.	No Data	7000.
	04/14/1988	No Data	No Data	650	1164	1580	No Data	318	No Data	No Data	5994
	10/17/1988	No Data	No Data	194	1073	3000	No Data	385	No Data	No Data	9070
	05/11/1989	No Data	No Data	1148	1424	3600	No Data	653	No Data	No Data	8560
	10/18/1989	No Data	No Data	560	1146	2010	No Data	564	No Data	No Data	5930
	04/11/1990	No Data	No Data	759	836	1700	No Data	232	No Data	No Data	7290
	10/17/1990	No Data	No Data	1044	1269	2800	No Data	No Data	No Data	No Data	6220
	06/24/1991	No Data	No Data	665	1143	1660	No Data	No Data	No Data	No Data	5550
	10/20/1991	No Data	No Data	661	1800.	2100.00	No Data	No Data	No Data	No Data	5340
	04/15/1992	No Data	No Data	372	1120	1090	No Data	No Data	No Data	No Data	4120
W-3	09/16/1981	<.5	No Data	No Data	4	<5	130	No Data	No Data	<1	370
	11/14/1981	<.5	No Data	No Data	17	<5	100	No Data	No Data	<1	No Data
	04/26/1982	No Data	<50	152	No Data	<25	No Data	No Data	No Data	No Data	400
	09/22/1982	No Data	<10	210	No Data	<10	71	No Data	94	No Data	450
	10/19/1982	No Data	<100	295	No Data	<10	<100	No Data	84	No Data	450
	11/16/1982	No Data	<20	245	No Data	<20	80	No Data	103	No Data	400
	04/30/1983	No Data	230	114	No Data	<10	<100	No Data	28	No Data	170
	05/29/1983	No Data	100	92	No Data	<10	30	No Data	32	No Data	185
	07/20/1983	No Data	No Data	No Data	No Data	<10	No Data	No Data	No Data	No Data	No Data
	10/31/1983	No Data	20	163	No Data	<10	60	No Data	67	No Data	350
	03/19/1984	No Data	<100	154	No Data	<10	<100	No Data	65.2	No Data	382
	04/18/1984	No Data	<100	105	No Data	<10	<100	No Data	37.9	No Data	246
	05/21/1984	No Data	No Data	107	No Data	<10	<100	No Data	48.2	No Data	252
	07/23/1984	No Data	No Data	184	No Data	<10	<100	No Data	82	No Data	548
	09/24/1984	No Data	No Data	141	No Data	<10	<100	No Data	82.1	No Data	547
	10/29/1984	No Data	No Data	258	No Data	<10	100	No Data	118	No Data	732
	04/09/1985	No Data	No Data	169	No Data	<10	<100	No Data	39.8	No Data	250
	06/10/1985	No Data	No Data	181	No Data	<10	<100	No Data	34.3	No Data	240
	10/14/1985	No Data	No Data	139	No Data	<10	<100	No Data	59.0	No Data	405
	06/02/1986	No Data	No Data	135	No Data	<5	<100	No Data	61.	No Data	460.

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "-" indicates an estimated value.

Monticello Surface-Water Historical Data (September 1981 - April 1992)[a]

Sample Location	Sample Date	Cl (mg/L)	Co (µg/L)	Cr (µg/L)	DO (mg/L)	Eh (mV)	F (mg/L)	Fe (µg/L)	Hg (µg/L)	K (mg/L)	Mg (mg/L)
W-2	05/21/1984	20	No Data	No Data	No Data	160	No Data	300	No Data	2.92	6.9
	07/23/1984	1440	No Data	No Data	No Data	130	No Data	<500	No Data	172	76
	09/24/1984	1700	No Data	No Data	No Data	165	No Data	<500	No Data	198	132
	10/29/1984	1800	No Data	No Data	No Data	140	No Data	<100	No Data	182	92.5
	04/09/1985	1100	No Data	No Data	No Data	No Data	No Data	<100	No Data	146	89.0
	06/10/1985	1210	No Data	No Data	No Data	120	No Data	100	No Data	187	81.2
	10/14/1985	821	No Data	No Data	No Data	110	No Data	80	No Data	86	54.8
	06/02/1986	1120.	No Data	No Data	No Data	110.	No Data	260	No Data	161.	92.
	08/25/1986	1210.	No Data	No Data	No Data	20.	No Data	No Data	No Data	178.	98.
	10/20/1986	1020.	No Data	No Data	No Data	150.	No Data	No Data	No Data	132.	71.
	04/14/1988	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/17/1988	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	05/11/1989	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/18/1989	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/11/1990	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/17/1990	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	06/24/1991	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/20/1991	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/15/1992	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
W-3	09/16/1981	8	No Data	<5	No Data	No Data	<1	No Data	<2	No Data	No Data
	11/14/1981	10	No Data	<5	No Data	No Data	<1	No Data	<2	No Data	No Data
	04/26/1982	13	<25	<25	No Data	No Data	<1	<100	No Data	No Data	No Data
	09/22/1982	7	No Data	No Data	No Data	160	No Data	<50	No Data	2	13
	10/19/1982	6	No Data	No Data	No Data	20	No Data	<50	No Data	2	13
	11/16/1982	12	No Data	No Data	No Data	100	No Data	<50	No Data	1.6	14.9
	04/30/1983	1	No Data	No Data	No Data	150	No Data	210	No Data	1.9	4.3
	05/29/1983	3	No Data	No Data	No Data	No Data	No Data	120	No Data	0.9	4.0
	07/20/1983	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/31/1983	4	No Data	No Data	No Data	150	No Data	<100	No Data	1.3	8
	03/19/1984	4	No Data	No Data	No Data	180	No Data	<100	No Data	1.1	9.8
	04/18/1984	3	No Data	No Data	No Data	160	No Data	100	No Data	0.89	5.15
	05/21/1984	1	No Data	No Data	No Data	160	No Data	<100	No Data	0.40	5.3
	07/23/1984	8.7	No Data	No Data	No Data	150	No Data	<500	No Data	1.4	14
	09/24/1984	8	No Data	No Data	No Data	150	No Data	<500	No Data	1.8	14.1
	10/29/1984	13	No Data	No Data	No Data	160	No Data	<100	No Data	2.4	20.6
	04/09/1985	3	No Data	No Data	No Data	No Data	No Data	<100	No Data	1.86	5.86
	06/10/1985	15.2	No Data	No Data	No Data	165	No Data	<100	No Data	1.20	4.21
	10/14/1985	4.2	No Data	No Data	No Data	160	No Data	40	No Data	2	11.6
	06/02/1986	3.0	No Data	No Data	No Data	135.	No Data	<30	No Data	1.0	8.5

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Monticello Surface-Water Historical Data (September 1981 - April 1992)[a]

Sample Location	Sample Date	Mn (µg/L)	Mo (µg/L)	Na (mg/L)	NH_4-N (µg/L)	NO_3 (µg/L)	Pb (µg/L)	Pb210 (pCi/L)	pH	PO_4 (mg/L)	Ra226 (pCi/L)
W-2	05/21/1984	<100	86	38.9	No Data	<2000	No Data	<1.5	8.6	No Data	<2
	07/23/1984	<500	9440	2698	No Data	6300	No Data	No Data	10.0	No Data	5.3
	09/24/1984	<500	11000	3320	No Data	270000	No Data	<1.5	9.1	No Data	12
	10/29/1984	<50	12100	3220	No Data	390000	No Data	<1.5	10.0	No Data	7
	04/09/1985	<50	8860	2540	No Data	200000	No Data	No Data	9.6	No Data	9.7
	06/10/1985	<50	9360	2580	No Data	98000	No Data	No Data	9.5	No Data	22
	10/14/1985	<10	4280	1551	No Data	74000	No Data	No Data	9.5	0.6	10.9
	06/02/1986	95	112000	2430.	No Data	70000	No Data	No Data	9.2	No Data	23.8
	08/25/1986	No Data	1500	2330.	No Data	177000	No Data	No Data	8.9	No Data	19.1
	10/20/1986	No Data	5600	1812.	No Data	No Data	No Data	No Data	9.7	No Data	9.3
	04/14/1988	No Data	4020	No Data	No Data	71000	No Data	No Data	9.42	No Data	7.1
	10/17/1988	No Data	5700	No Data	No Data	115000	No Data	No Data	9.7	No Data	6.9
	05/11/1989	No Data	6700	No Data	No Data	153000	No Data	No Data	8.64	No Data	8.9
	10/18/1989	No Data	5050	No Data	No Data	101000	No Data	No Data	9.70	No Data	<1.1
	04/11/1990	No Data	5300	No Data	No Data	54400	No Data	No Data	9.26	No Data	6.0
	10/17/1990	No Data	5220	No Data	No Data	99800	No Data	No Data	9.10	No Data	6.1
	06/24/1991	No Data	3420	No Data	<20	64100	No Data	No Data	9.16	No Data	4.7
	10/20/1991	No Data	3790.00	No Data	No Data	24300	No Data	No Data	9.31	No Data	3.0
	04/15/1992	No Data	2530	No Data	No Data	18900	No Data	No Data	9.74	No Data	4.2
W-3	09/16/1981	No Data	3	No Data	No Data	<4	<2	No Data	9.0	<1	<.5
	11/14/1981	No Data	<2	No Data	No Data	<4428	<1	No Data	No Data	<1	<5
	04/26/1982	No Data	<25	No Data	No Data	<4428	No Data	No Data	8.4	<1	<2
	09/22/1982	<100	<50	21	No Data	<4428	No Data	No Data	8.3	No Data	No Data
	10/19/1982	<50	<50	20	No Data	<8856	No Data	No Data	8.3	No Data	No Data
	11/16/1982	<50	<100	24	No Data	<4428	No Data	No Data	8.2	No Data	<2
	04/30/1983	<200	<10	8.3	No Data	No Data	No Data	No Data	8.1	<.153	<2.0
	05/29/1983	<50	<10	4.5	No Data	<22140	No Data	No Data	8.3	<0.050	<2.0
	07/20/1983	No Data	<20	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/31/1983	<100	<10	14	No Data	<5000	No Data	No Data	8.7	No Data	No Data
	03/19/1984	<100	<50	12.4	No Data	<4428	No Data	No Data	8.4	No Data	No Data
	04/18/1984	<100	<50	7.28	No Data	<4428	No Data	No Data	8.05	No Data	No Data
	05/21/1984	<100	178	7.3	No Data	<2000	No Data	No Data	7.3	No Data	No Data
	07/23/1984	<500	<50	26	No Data	<100	No Data	No Data	8.4	No Data	No Data
	09/24/1984	<500	<50	21.2	No Data	<5000	No Data	No Data	6.6	No Data	No Data
	10/29/1984	<50	<50	35.8	No Data	<5000	No Data	No Data	7.7	No Data	No Data
	04/09/1985	<50	<50	7.43	No Data	<1000	No Data	No Data	7.4	No Data	<1
	06/10/1985	<50	<50	6.79	No Data	<1000	No Data	No Data	8.6	No Data	<1
	10/14/1985	<10	<10	11.5	No Data	<1000	No Data	No Data	8.2	<0.1	No Data
	06/02/1986	17	<50	11.	No Data	3000	No Data	No Data	7.7	No Data	No Data

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Monticello Surface-Water Historical Data (September 1981 - April 1992)[a]

Sample Location	Sample Date	Ra228 (pCi/L)	Se (µg/L)	Si (mg/L)	SO_4 (mg/L)	Temp (deg C)	Th230 (pCi/L)	U (µg/L)	U234 (pCi/L)	U238 (pCi/L)	V (µg/L)
W-2	05/21/1984	No Data	13	5.9	75	18	<1	24	No Data	No Data	1170
	07/23/1984	No Data	2340	18	3370	30	No Data	1000	No Data	No Data	139000
	09/24/1984	No Data	3110	5	4200	10	<1	1700	No Data	No Data	136000
	10/29/1984	No Data	1700	1.0	4400	13	<1	1400	No Data	No Data	158000
	04/09/1985	No Data	2300	2.6	2900	13	No Data	1900	No Data	No Data	123000
	06/10/1985	No Data	1860	7.2	2790	26	No Data	1700	No Data	No Data	153000
	10/14/1985	No Data	120	2.7	1860	13	No Data	1300	No Data	No Data	80500
	06/02/1986	No Data	510	13.	2710.	22.5	No Data	1400	No Data	No Data	5000
	08/25/1986	No Data	1900	No Data	3020.	16.5	No Data	1400	No Data	No Data	54000
	10/20/1986	No Data	1800	No Data	2300.	18.	No Data	1600	No Data	No Data	83000
	04/14/1988	<1.8	1270	No Data	No Data	23.3	No Data	1790	No Data	No Data	67400
	10/17/1988	<1.5	1800	No Data	No Data	15.6	No Data	920	No Data	No Data	91000
	05/11/1989	<1.0	2500	No Data	No Data	7.6	No Data	1200	No Data	No Data	108000
	10/18/1989	<3.0	2030	No Data	No Data	16.5	No Data	1580	No Data	No Data	97100
	04/11/1990	<2	890	No Data	No Data	15.3	No Data	1400	No Data	No Data	89000
	10/17/1990	<3	890	No Data	No Data	10.1	No Data	No Data	594	604	104000
	06/24/1991	<3	613	No Data	No Data	17.5	No Data	No Data	507	580	63600
	10/20/1991	<3	1250.00	No Data	No Data	13.1	<3.6	No Data	610	626	93000.0
	04/15/1992	<2	796	No Data	No Data	21.8	1.1	No Data	422.0	510.6	53800
W-3	09/16/1981	<1	<5	No Data	57	No Data	No Data	1	No Data	No Data	14
	11/14/1981	<1	<5	No Data	92	No Data	No Data	<51	No Data	No Data	<5
	04/26/1982	No Data	<5	No Data	82	11	No Data	2	No Data	No Data	44
	09/22/1982	No Data	<10	7.06	87	11	No Data	4	No Data	No Data	<50
	10/19/1982	No Data	<10	6.0	112	12	No Data	3	No Data	No Data	<50
	11/16/1982	No Data	<20	7.91	110	3	No Data	5	No Data	No Data	<50
	04/30/1983	No Data	<10	4.0	23	8	No Data	2	No Data	No Data	<50
	05/29/1983	No Data	<10	4.8	23	9	No Data	2	No Data	No Data	<10
	07/20/1983	No Data	<10	No Data	No Data	No Data	No Data	2	No Data	No Data	<10
	10/31/1983	No Data	<10	6.8	82	10	No Data	2	No Data	No Data	<10
	03/19/1984	No Data	<10	5.89	77	8	No Data	2	No Data	No Data	<50
	04/18/1984	No Data	<10	4.81	31	12	No Data	<1	No Data	No Data	<50
	05/21/1984	No Data	<10	5.4	43	12	No Data	<1	No Data	No Data	<50
	07/23/1984	No Data	<10	6	111	19	No Data	3	No Data	No Data	<50
	09/24/1984	No Data	<10	6	150	15.5	No Data	2	No Data	No Data	<50
	10/29/1984	No Data	<10	8.0	190	14	No Data	5	No Data	No Data	<50
	04/09/1985	No Data	<5	4.5	39	15	No Data	<1	No Data	No Data	<50
	06/10/1985	No Data	<10	7.3	31.4	17	No Data	<1	No Data	No Data	<50
	10/14/1985	No Data	<5	4.3	75.1	11	No Data	1	No Data	No Data	<10
	06/02/1986	No Data	<5	5.6	86.0	18.	No Data	<3	No Data	No Data	<50

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "-" indicates an estimated value.

Monticello Surface-Water Historical Data (September 1981 - April 1992)[a]

Sample Location	Sample Date	Zn (µg/L)
W-2	05/21/1984	60
	07/23/1984	<50
	09/24/1984	200
	10/29/1984	330
	04/09/1985	<50
	06/10/1985	<50
	10/14/1985	<5
	06/02/1986	<10
	08/25/1986	No Data
	10/20/1986	No Data
	04/14/1988	No Data
	10/17/1988	No Data
	05/11/1989	No Data
	10/18/1989	No Data
	04/11/1990	No Data
	10/17/1990	No Data
	06/24/1991	No Data
	10/20/1991	No Data
	04/15/1992	No Data
W-3	09/16/1981	No Data
	11/14/1981	No Data
	04/26/1982	No Data
	09/22/1982	<50
	10/19/1982	<50
	11/16/1982	<50
	04/30/1983	80
	05/29/1983	<50
	07/20/1983	No Data
	10/31/1983	50
	03/19/1984	<100
	04/18/1984	<100
	05/21/1984	90
	07/23/1984	130
	09/24/1984	80
	10/29/1984	1020
	04/09/1985	<50
	06/10/1985	110
	10/14/1985	<5
	06/02/1986	<10

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.

Monticello Surface-Water Historical Data (September 1981 - April 1992)[a]

Sample Location	Sample Date	Ag (μg/L)	Al (μg/L)	Alkalinity (ppm)	Alpha (pCi/L)	As (μg/L)	Ba (μg/L)	Beta (pCi/L)	Ca (mg/L)	Cd (μg/L)	Conductivity (μmhos/cm)
W-3	08/25/1986	No Data	No Data	130	No Data	<5	No Data	No Data	53.	No Data	315.
	10/20/1986	No Data	No Data	153	No Data	<5	No Data	No Data	108.	No Data	3250.
	05/18/1987	No Data	No Data	110	No Data	<5	No Data	No Data	38.1	No Data	220.
	04/14/1988	No Data	No Data	161	<9	<5	No Data	<10	No Data	No Data	936
	10/17/1988	No Data	No Data	214	<20	<5	No Data	<16	No Data	No Data	2210
	05/09/1989	No Data	No Data	116	<34	<10	No Data	<32	No Data	No Data	1688
	05/09/1989	No Data	No Data	116	<34	<10	No Data	<32	No Data	No Data	1688
	10/17/1989	No Data	No Data	165	<33	<10	No Data	<18	No Data	No Data	1570
	06/24/1991	No Data	No Data	57	<7	<10	No Data	No Data	No Data	No Data	144
	04/14/1992	No Data	No Data	190	<15	<2.0	No Data	No Data	No Data	No Data	508
W-4	11/14/1981	.5	No Data	No Data	547	18	80	No Data	No Data	<1	No Data
	04/26/1982	No Data	<50	263	No Data	<25	No Data	No Data	No Data	No Data	800
	08/11/1982	No Data	<100	369	No Data	19	<100	No Data	194	No Data	1700
	09/22/1982	No Data	20	262	No Data	24	44	No Data	112	No Data	1050
	10/19/1982	No Data	<100	270	No Data	<10	<100	No Data	110	No Data	700
	11/16/1982	No Data	<20	295	No Data	<20	80	No Data	130	No Data	650
	11/16/1982	No Data	<20	295	No Data	<20	80	No Data	132	No Data	650
	04/30/1983	No Data	10	119	No Data	<10	<100	No Data	42	No Data	240
	05/29/1983	No Data	40	98	No Data	<10	40	No Data	35	No Data	250
	07/20/1983	No Data	No Data	No Data	No Data	10	No Data	No Data	No Data	No Data	No Data
	09/19/1983	No Data	<100	362	No Data	20	70	No Data	210	No Data	1650
	10/31/1983	No Data	10	185	No Data	<10	60	No Data	82	No Data	510
	03/19/1984	No Data	<100	170	No Data	<10	<100	No Data	76.8	No Data	469
	04/18/1984	No Data	<100	119	No Data	<10	<100	No Data	50	No Data	288
	05/21/1984	No Data	No Data	118	No Data	<10	<100	No Data	50	No Data	343
	07/23/1984	No Data	No Data	424	No Data	20	<100	No Data	261	No Data	2288
	09/24/1984	No Data	No Data	397	No Data	20	<100	No Data	206	No Data	1888
	10/29/1984	No Data	No Data	407	No Data	27	<100	No Data	190	No Data	1612
	04/09/1985	No Data	No Data	390	No Data	<10	<100	No Data	39.9	No Data	256
	06/10/1985	No Data	No Data	150	No Data	<10	<100	No Data	61.1	No Data	448
	10/14/1985	No Data	No Data	184	No Data	<10	<100	No Data	84.1	No Data	624
	06/02/1986	No Data	No Data	131	No Data	<5	<100	No Data	74.	No Data	465.
	06/02/1986	No Data	No Data	131	No Data	<5	<100	No Data	74.	No Data	465.
	08/25/1986	No Data	No Data	240	No Data	11	No Data	No Data	104.	No Data	846.
	10/20/1986	No Data	No Data	291	No Data	9	No Data	No Data	142.	No Data	800.
	04/14/1988	No Data	No Data	261	51	<5	No Data	<26	No Data	No Data	1681
	10/17/1988	No Data	No Data	256	<21	<5	No Data	<16	No Data	No Data	1940
	05/10/1989	No Data	No Data	303	327	<10	No Data	70	No Data	No Data	2340
	10/19/1989	No Data	No Data	366	332	<10	No Data	163	No Data	No Data	1830

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.

Monticello Surface-Water Historical Data (September 1981 - April 1992)[a]

Sample Location	Sample Date	Cl (mg/L)	Co (µg/L)	Cr (µg/L)	DO (mg/L)	Eh (mV)	F (mg/L)	Fe (µg/L)	Hg (µg/L)	K (mg/L)	Mg (mg/L)
W-3	08/25/1986	2.9	No Data	No Data	No Data	150.	No Data	No Data	No Data	2.2	7.2
	10/20/1986	6.5	No Data	No Data	No Data	125.	No Data	No Data	No Data	2.2	17.
	05/18/1987	1.6	No Data	No Data	No Data	280.	No Data	<100	No Data	0.60	4.9
	04/14/1988	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/17/1988	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	05/09/1989	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	05/09/1989	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/17/1989	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	06/24/1991	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/14/1992	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
W-4	11/14/1981	107	No Data	<5	No Data	No Data	<1	No Data	<2	No Data	No Data
	04/26/1982	16	<25	<25	No Data	No Data	<1	<100	No Data	No Data	No Data
	08/11/1982	81	No Data	No Data	No Data	60	<1	<50	No Data	16	45
	09/22/1982	37	No Data	No Data	No Data	215	No Data	<50	No Data	14	25
	10/19/1982	29	No Data	No Data	No Data	180	No Data	<50	No Data	7	22
	11/16/1982	31	No Data	No Data	No Data	150	No Data	<50	No Data	6.6	203.3
	11/16/1982	35	No Data	No Data	No Data	150	No Data	<50	No Data	6.5	23.5
	04/30/1983	2	No Data	No Data	No Data	170	No Data	<200	No Data	2.0	6.2
	05/29/1983	2	No Data	No Data	No Data	No Data	No Data	60	No Data	1.0	4.1
	07/20/1983	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	09/19/1983	82	No Data	No Data	No Data	180	No Data	50	No Data	23	47
	10/31/1983	11	No Data	No Data	No Data	100	No Data	<100	No Data	3.6	13
	03/19/1984	9	No Data	No Data	No Data	225	No Data	100	No Data	1.7	12.5
	04/18/1984	4	No Data	No Data	No Data	180	No Data	100	No Data	1.2	5.9
	05/21/1984	5	No Data	No Data	No Data	160	No Data	<100	No Data	1.50	6.7
	07/23/1984	102	No Data	No Data	No Data	160	No Data	<500	No Data	16	61
	09/24/1984	82	No Data	No Data	No Data	160	No Data	<500	No Data	14.5	51.6
	10/29/1984	80	No Data	No Data	No Data	170	No Data	<100	No Data	13.7	46.6
	04/09/1985	9	No Data	No Data	No Data	No Data	No Data	<100	No Data	1.91	6.26
	06/10/1985	10.0	No Data	No Data	No Data	150	No Data	<100	No Data	2.25	10.2
	10/14/1985	13.8	No Data	No Data	No Data	130	No Data	<30	No Data	3	16.9
	06/02/1986	5.7	No Data	No Data	No Data	150.	No Data	<30	No Data	1.4	11.
	06/02/1986	5.8	No Data	No Data	No Data	150.	No Data	<30	No Data	1.4	11.
	08/25/1986	20.1	No Data	No Data	No Data	150.	No Data	No Data	No Data	8.5	21.
	10/20/1986	43.5	No Data	No Data	No Data	150.	No Data	No Data	No Data	82.	25.
	04/14/1988	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/17/1988	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	05/10/1989	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/19/1989	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.

Monticello Surface-Water Historical Data (September 1981 - April 1992)[a]

Sample Location	Sample Date	Mn (µg/L)	Mo (µg/L)	Na (mg/L)	NH_4-N (µg/L)	NO_3 (µg/L)	Pb (µg/L)	Pb210 (pCi/L)	pH	PO_4 (mg/L)	Ra226 (pCi/L)
W-3	08/25/1986	No Data	<50	9.	No Data	<1000	No Data	No Data	8.5	No Data	No Data
	10/20/1986	No Data	<50	28.	No Data	No Data	No Data	No Data	7.7	No Data	No Data
	05/18/1987	<25	<50	7.	No Data	600	No Data	No Data	7.6	No Data	No Data
	04/14/1988	No Data	<50	No Data	No Data	5800	No Data	No Data	7.9	No Data	<0.2
	10/17/1988	No Data	<50	No Data	No Data	13200	No Data	No Data	8.02	No Data	0.1
	05/09/1989	No Data	<10	No Data	No Data	160	No Data	No Data	8.26	No Data	0.1
	05/09/1989	No Data	<10	No Data	No Data	210	No Data	No Data	8.26	No Data	0.2
	10/17/1989	No Data	<10	No Data	No Data	<40	No Data	No Data	8.09	No Data	<0.1
	06/24/1991	No Data	<10	No Data	1620	2680	No Data	No Data	8.31	No Data	0.2
	04/14/1992	No Data	<21.0	No Data	No Data	-462	No Data	No Data	8.24	No Data	0.2
W-4	11/14/1981	No Data	150	No Data	No Data	30996	<1	No Data	No Data	<1	<5
	04/26/1982	No Data	95	No Data	No Data	4428	No Data	No Data	7.5	<1	<2
	08/11/1982	200	80	208	No Data	8856	No Data	No Data	6.8	No Data	<2
	09/22/1982	200	130	149	No Data	13284	No Data	No Data	7.2	No Data	<2
	10/19/1982	60	60	71	No Data	<8856	No Data	No Data	7.4	No Data	<2
	11/16/1982	140	100	73	No Data	<4428	No Data	No Data	7.9	No Data	<2
	11/16/1982	150	<100	73	No Data	<4428	No Data	No Data	7.9	No Data	<2
	04/30/1983	<200	<10	7.6	No Data	No Data	No Data	5	8.3	<.153	<2.0
	05/29/1983	<50	<10	7.8	No Data	<22140	No Data	No Data	7.9	<0.050	No Data
	07/20/1983	No Data	150	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	09/19/1983	200	170	173	No Data	<5000	No Data	No Data	7.3	No Data	<2
	10/31/1983	100	30	34	No Data	<5000	No Data	No Data	8.3	No Data	<2
	03/19/1984	100	<50	22.1	No Data	<4428	No Data	No Data	8.2	No Data	No Data
	04/18/1984	<100	70	10.6	No Data	<4428	No Data	No Data	8.3	No Data	<2
	05/21/1984	<100	188	15.1	No Data	<2000	No Data	No Data	7.2	No Data	No Data
	07/23/1984	<500	120	214	No Data	1400	No Data	No Data	7.4	No Data	No Data
	09/24/1984	<500	100	204	No Data	5000	No Data	No Data	7.3	No Data	No Data
	10/29/1984	150	120	214	No Data	6000	No Data	No Data	7.5	No Data	No Data
	04/09/1985	<50	<50	8.85	No Data	1000	No Data	No Data	7.3	No Data	No Data
	06/10/1985	<50	<50	23.4	No Data	3000	No Data	No Data	7.2	No Data	<1
	10/14/1985	60	<10	30.6	No Data	10000	No Data	No Data	8.2	<0.1	<1.0
	06/02/1986	36	<50	17.	No Data	3000	No Data	No Data	7.9	No Data	No Data
	06/02/1986	34	<50	16.	No Data	4000	No Data	No Data	7.9	No Data	No Data
	08/25/1986	No Data	<50	79.	No Data	2600	No Data	No Data	7.2	No Data	No Data
	10/20/1986	No Data	<50	66.	No Data	No Data	No Data	No Data	7.6	No Data	No Data
	04/14/1988	No Data	<50	No Data	No Data	28100	No Data	No Data	7.88	No Data	0.4
	10/17/1988	No Data	<50	No Data	No Data	44300	No Data	No Data	7.89	No Data	0.3
	05/10/1989	No Data	70	No Data	No Data	23200	No Data	No Data	7.26	No Data	0.4
	10/19/1989	No Data	52	No Data	No Data	5710	No Data	No Data	6.92	No Data	0.3

[a] A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.

Monticello Surface-Water Historical Data (September 1981 - April 1992)[a]

Sample Location	Sample Date	Ra228 (pCi/L)	Se (μg/L)	Si (mg/L)	SO_4 (mg/L)	Temp (deg C)	Th230 (pCi/L)	U (μg/L)	U234 (pCi/L)	U238 (pCi/L)	V (μg/L)
W-3	08/25/1986	No Data	<5	No Data	54.2	20.	No Data	1.	No Data	No Data	<50
	10/20/1986	No Data	6	No Data	136.	6.	No Data	2	No Data	No Data	<50
	05/18/1987	No Data	<5	No Data	31.5	6.	No Data	<1	No Data	No Data	<50
	04/14/1988	<0.6	<5	No Data	No Data	9.3	No Data	5	No Data	No Data	<50
	10/17/1988	<0.7	<5	No Data	No Data	11.1	No Data	<3	No Data	No Data	<50
	05/09/1989	<1.0	<5	No Data	No Data	18.6	No Data	8	No Data	No Data	<50
	05/09/1989	<1.0	<5	No Data	No Data	18.6	No Data	7	No Data	No Data	<50
	10/17/1989	<2.0	7	No Data	No Data	9.2	No Data	8	No Data	No Data	142
	06/24/1991	<3	<5	No Data	No Data	8.2	No Data	No Data	0.7	0.6	<50
	04/14/1992	<2	<2.0	No Data	No Data	17.3	0.11	No Data	2.9	1.1	<7.0
W-4	11/14/1981	<1	20	No Data	469	No Data	No Data	1798	No Data	No Data	660
	04/26/1982	No Data	16	No Data	253	14	No Data	229	No Data	No Data	322
	08/11/1982	No Data	25	7.7	550	16	No Data	220	No Data	No Data	520
	09/22/1982	No Data	31	8.20	306	17	No Data	475	No Data	No Data	690
	10/19/1982	No Data	10	6.4	249	6	No Data	250	No Data	No Data	390
	11/16/1982	No Data	<20	7.05	239	3	No Data	278	No Data	No Data	630
	11/16/1982	No Data	<20	6.79	378	3	No Data	260	No Data	No Data	610
	04/30/1983	No Data	<10	4.4	37	9	No Data	10	No Data	No Data	<50
	05/29/1983	No Data	<10	4.9	29	14	No Data	11	No Data	No Data	10
	07/20/1983	No Data	<10	No Data	No Data	No Data	No Data	400	No Data	No Data	390
	09/19/1983	No Data	<10	8.4	610	19	No Data	800	No Data	No Data	530
	10/31/1983	No Data	<10	6.9	150	12	No Data	100	No Data	No Data	120
	03/19/1984	No Data	<10	5.46	110	4	No Data	52	No Data	No Data	100
	04/18/1984	No Data	<10	4.88	42	13	No Data	14	No Data	No Data	750
	05/21/1984	No Data	<10	4.9	59	23	No Data	46	No Data	No Data	<50
	07/23/1984	No Data	20	8	786	23	No Data	900	No Data	No Data	570
	09/24/1984	No Data	40	10	620	16	No Data	900	No Data	No Data	620
	10/29/1984	No Data	28	8.6	580	13	No Data	600	No Data	No Data	620
	04/09/1985	No Data	<5	4.3	47	15	No Data	10	No Data	No Data	<50
	06/10/1985	No Data	<10	5.7	90.7	18	No Data	59	No Data	No Data	70
	10/14/1985	No Data	6	4.8	137	12.5	No Data	46	No Data	No Data	120
	06/02/1986	No Data	23	5.6	108.	18.5	No Data	26	No Data	No Data	<50
	06/02/1986	No Data	9	5.6	111.	18.5	No Data	26	No Data	No Data	<50
	08/25/1986	No Data	10	No Data	222.	19.	No Data	200	No Data	No Data	250
	10/20/1986	No Data	8	No Data	317.	10.	No Data	100	No Data	No Data	221
	04/14/1988	<1.0	<5	No Data	No Data	10.7	No Data	820	No Data	No Data	670
	10/17/1988	<0.4	<5	No Data	No Data	12.4	No Data	42	No Data	No Data	120
	05/10/1989	<1.0	42	No Data	No Data	12.5	No Data	490	No Data	No Data	340
	10/19/1989	<3.0	13	No Data	No Data	12.3	No Data	444	No Data	No Data	358

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.

Monticello Surface-Water Historical Data (September 1981 - April 1992)[a]

Sample Location	Sample Date	Zn (μg/L)
W-3	08/25/1986	No Data
	10/20/1986	No Data
	05/18/1987	No Data
	04/14/1988	No Data
	10/17/1988	No Data
	05/09/1989	No Data
	05/09/1989	No Data
	10/17/1989	No Data
	06/24/1991	No Data
	04/14/1992	No Data
W-4	11/14/1981	No Data
	04/26/1982	No Data
	08/11/1982	80
	09/22/1982	<50
	10/19/1982	<50
	11/16/1982	<50
	11/16/1982	<50
	04/30/1983	20
	05/29/1983	<50
	07/20/1983	No Data
	09/19/1983	<20
	10/31/1983	50
	03/19/1984	<100
	04/18/1984	<100
	05/21/1984	50
	07/23/1984	770
	09/24/1984	470
	10/29/1984	1460
	04/09/1985	<50
	06/10/1985	<50
	10/14/1985	<5
	06/02/1986	<10
	06/02/1986	<10
	08/25/1986	No Data
	10/20/1986	No Data
	04/14/1988	No Data
	10/17/1988	No Data
	05/10/1989	No Data
	10/19/1989	No Data

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.

Monticello Surface-Water Historical Data (September 1981 - April 1992)[a]

Sample Location	Sample Date	Ag (µg/L)	Al (µg/L)	Alkalinity (ppm)	Alpha (pCi/L)	As (µg/L)	Ba (µg/L)	Beta (pCi/L)	Ca (mg/L)	Cd (µg/L)	Conductivity (µmhos/cm)
W-4	04/11/1990	No Data	No Data	374	517	<10	No Data	134	No Data	No Data	2300
	10/17/1990	No Data	No Data	338	145	11	No Data	No Data	No Data	No Data	2290
	06/24/1991	No Data	No Data	332	314	<10	No Data	No Data	No Data	No Data	2060
	10/20/1991	No Data	No Data	386	370.	10.30	No Data	No Data	No Data	No Data	1815
W-5	07/20/1983	No Data	No Data	No Data	No Data	<10	No Data	No Data	No Data	No Data	No Data
	04/09/1985	No Data	No Data	290	No Data	<10	<100	No Data	38.4	No Data	258
	06/10/1985	No Data	No Data	149	No Data	<10	<100	No Data	545	No Data	440
	10/14/1985	No Data	No Data	236	No Data	<10	100	No Data	121	No Data	1092
	10/20/1986	No Data	No Data	214	No Data	<5	No Data	No Data	168.	No Data	900.
	10/17/1988	No Data	No Data	390	<12	<5	No Data	<15	No Data	No Data	999
	05/09/1989	No Data	No Data	170	<35	<10	No Data	<32	No Data	No Data	1699
	10/17/1989	No Data	No Data	383	<19	<10	No Data	<11	No Data	No Data	1830
	04/10/1990	No Data	No Data	319	<25	<10	No Data	<21	No Data	No Data	1318
	10/16/1990	No Data	No Data	374	<31	<10	No Data	No Data	No Data	No Data	977
	06/24/1991	No Data	No Data	302	<26	<10	No Data	No Data	No Data	No Data	1025
	10/20/1991	No Data	No Data	357	<20.	<3.00	No Data	No Data	No Data	No Data	1008
	04/14/1992	No Data	No Data	309	<20	<2.0	No Data	No Data	No Data	No Data	865

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "-" indicates an estimated value.

Monticello Surface-Water Historical Data (September 1981 - April 1992)[a]

Sample Location	Sample Date	Cl (mg/L)	Co (µg/L)	Cr (µg/L)	DO (mg/L)	Eh (mV)	F (mg/L)	Fe (µg/L)	Hg (µg/L)	K (mg/L)	Mg (mg/L)
W-4	04/11/1990	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/17/1990	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	06/24/1991	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/20/1991	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
W-5	07/20/1983	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/09/1985	3	No Data	No Data	No Data	No Data	No Data	200	No Data	2.05	6.00
	06/10/1985	13.9	No Data	No Data	No Data	155	No Data	<100	No Data	1.87	12.2
	10/14/1985	32.7	No Data	No Data	No Data	160	No Data	<30	No Data	4	26.6
	10/20/1986	51.8	No Data	No Data	No Data	160.	No Data	No Data	No Data	71.	37.
	10/17/1988	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	05/09/1989	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/17/1989	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/10/1990	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/16/1990	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	06/24/1991	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/20/1991	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/14/1992	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data

[a] A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.

Monticello Surface-Water Historical Data (September 1981 - April 1992)[a]

Sample Location	Sample Date	Mn (µg/L)	Mo (µg/L)	Na (mg/L)	NH_4-N (µg/L)	NO_3 (µg/L)	Pb (µg/L)	Pb210 (pCi/L)	pH	PO_4 (mg/L)	Ra226 (pCi/L)
W-4	04/11/1990	No Data	86	No Data	No Data	10300	No Data	No Data	7.13	No Data	0.3
	10/17/1990	No Data	26	No Data	No Data	770	No Data	No Data	7.93	No Data	<1.4
	06/24/1991	No Data	54	No Data	No Data	6440	No Data	No Data	6.92	No Data	0.4
	10/20/1991	No Data	51.60	No Data	No Data	1960	No Data	No Data	6.74	No Data	0.5
W-5	07/20/1983	No Data	<20	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/09/1985	<50	<50	9.10	No Data	<1000	No Data	No Data	7.2	No Data	No Data
	06/10/1985	<50	<50	25.6	No Data	2000	No Data	No Data	8.05	No Data	No Data
	10/14/1985	160	40	68.2	No Data	2000	No Data	No Data	8.1	<0.1	No Data
	10/20/1986	No Data	57	100	No Data	No Data	No Data	No Data	7.5	No Data	No Data
	10/17/1988	No Data	<50	No Data	No Data	1300	No Data	No Data	7.68	No Data	0.2
	05/09/1989	No Data	<10	No Data	No Data	840	No Data	No Data	8.23	No Data	0.1
	10/17/1989	No Data	<10	No Data	No Data	760	No Data	No Data	7.90	No Data	0.2
	04/10/1990	No Data	<10	No Data	No Data	750	No Data	No Data	8.01	No Data	0.8
	10/16/1990	No Data	<10	No Data	No Data	320	No Data	No Data	9.16	No Data	0.5
	06/24/1991	No Data	<10	No Data	570	1320	No Data	No Data	7.81	No Data	0.5
	10/20/1991	No Data	<18.00	No Data	No Data	170	No Data	No Data	8.12	No Data	3.3
	04/14/1992	No Data	<21.0	No Data	No Data	1570	No Data	No Data	8.13	No Data	0.4

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.

Monticello Surface-Water Historical Data (September 1981 - April 1992)[a]

Sample Location	Sample Date	Ra228 (pCi/L)	Se (µg/L)	Si (mg/L)	SO_4 (mg/L)	Temp (deg C)	Th230 (pCi/L)	U (µg/L)	U234 (pCi/L)	U238 (pCi/L)	V (µg/L)
W-4	04/11/1990	<1	<5	No Data	No Data	10.8	No Data	840	No Data	No Data	300
	10/17/1990	<2	7	No Data	No Data	4.7	No Data	No Data	56.2	55.8	325
	06/24/1991	<2.0	28	No Data	No Data	No Data	No Data	No Data	199.5	200.3	337
	10/20/1991	<2	14.70	No Data	No Data	12.4	<0.3	No Data	159	161	336.00
W-5	07/20/1983	No Data	<10	No Data	No Data	No Data	No Data	6	No Data	No Data	10
	04/09/1985	No Data	<5	4.6	43	14	No Data	8	No Data	No Data	<50
	06/10/1985	No Data	<10	5.3	119	20	No Data	30	No Data	No Data	<50
	10/14/1985	No Data	9	5.0	274	9.5	No Data	120	No Data	No Data	60
	10/20/1986	No Data	7	No Data	434.	7.	No Data	200	No Data	No Data	105
	10/17/1988	<0.9	<5	No Data	No Data	10.5	No Data	<3	No Data	No Data	<50
	05/09/1989	<1.0	<5	No Data	No Data	17.0	No Data	6	No Data	No Data	<50
	10/17/1989	<2.0	<5	No Data	No Data	8.5	No Data	7	No Data	No Data	<50
	04/10/1990	<1	<5	No Data	No Data	13.6	No Data	40	No Data	No Data	<50
	10/16/1990	<3	<5	No Data	No Data	7.2	No Data	No Data	3.0	1.9	<50
	06/24/1991	<2	<5	No Data	No Data	6.6	No Data	No Data	6.0	3.7	<50
	10/20/1991	<4	<2.00	No Data	No Data	10.3	0.7	No Data	2.8	1.3	<10.00
	04/14/1992	<2	<2.0	No Data	No Data	13.1	0.21	No Data	10.1	7.3	<7.0

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.

Monticello Surface-Water Historical Data (September 1981 - April 1992)[a]

Sample Location	Sample Date	Zn (μg/L)
W-4	04/11/1990	No Data
	10/17/1990	No Data
	06/24/1991	No Data
	10/20/1991	No Data
W-5	07/20/1983	No Data
	04/09/1985	<50
	06/10/1985	<50
	10/14/1985	<5
	10/20/1986	No Data
	10/17/1988	No Data
	05/09/1989	No Data
	10/17/1989	No Data
	04/10/1990	No Data
	10/16/1990	No Data
	06/24/1991	No Data
	10/20/1991	No Data
	04/14/1992	No Data

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.

Annex B–2

August 1982—April 1992 Alluvial Groundwater Sampling Results

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Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	^3H[b] (TU)	Ag (μg/L)	Al (μg/L)	Alkalinity (ppm)	Alpha (pCi/L)	As (μg/L)	Ba (μg/L)	Beta (pCi/L)	Ca (mg/L)
82-02	08/11/1982	No Data	No Data	<100	295	No Data	<10	<100	No Data	298
	09/22/1982	No Data	No Data	<10	340	No Data	<10	44	No Data	290
	10/19/1982	No Data	No Data	<100	460	No Data	<10	100	No Data	193
	11/16/1982	No Data	No Data	<20	400	No Data	<20	<50	No Data	283
	04/30/1983	No Data	No Data	<10	386	No Data	<10	<100	No Data	260
	05/29/1983	No Data	No Data	10	336	No Data	<10	20	No Data	275
	07/21/1983	No Data	No Data	60	336	No Data	<10	50	No Data	204
	09/19/1983	No Data	No Data	<100	385	No Data	<10	60	No Data	290
	10/31/1983	No Data	No Data	<10	360	No Data	<10	<50	No Data	220
	03/19/1984	No Data	No Data	120	400	No Data	<10	<100	No Data	306
	03/20/1984	No Data	No Data	<100	400	No Data	<10	<100	No Data	306
	05/21/1984	No Data	No Data	No Data	410	No Data	<10	<100	No Data	285
	05/22/1984	No Data	No Data	No Data	410	No Data	<10	<100	No Data	299
	07/23/1984	No Data	No Data	No Data	296	No Data	<10	<100	No Data	281
	07/24/1984	No Data	No Data	No Data	296	No Data	<10	<100	No Data	277
	09/24/1984	No Data	No Data	No Data	358	No Data	<10	<100	No Data	297
	10/29/1984	No Data	<10	No Data	372	220	<10	<100	70	232
82-07	08/11/1982	No Data	No Data	<100	366	No Data	10	120	No Data	205
	09/22/1982	No Data	No Data	10	362	No Data	<10	112	No Data	200
	10/19/1982	No Data	No Data	<100	405	No Data	<10	<100	No Data	141
	11/16/1982	No Data	No Data	<20	340	No Data	<20	80	No Data	182
	04/30/1983	No Data	No Data	20	320	No Data	<10	<100	No Data	190
	05/29/1983	No Data	No Data	<10	312	No Data	<10	60	No Data	132
	07/21/1983	No Data	No Data	30	250	No Data	<10	60	No Data	77
	09/19/1983	No Data	No Data	<100	368	No Data	<10	50	No Data	92
	10/31/1983	No Data	No Data	10	275	No Data	<10	<50	No Data	82
	05/21/1984	No Data	No Data	No Data	284	No Data	<10	1000	No Data	40.0
	07/23/1984	No Data	No Data	No Data	333	No Data	<10	<100	No Data	116
	09/24/1984	No Data	No Data	No Data	344	No Data	<10	100	No Data	212
	10/29/1984	No Data	No Data	No Data	384	No Data	<10	100	No Data	238
	04/09/1985	No Data	No Data	No Data	453	No Data	<10	<100	No Data	212
	05/18/1987	No Data	No Data	No Data	334	No Data	5	No Data	No Data	139.
82-08	08/11/1982	No Data	No Data	<100	268	No Data	<10	<100	No Data	291
	09/22/1982	No Data	No Data	10	282	No Data	<10	46	No Data	245
	10/19/1982	No Data	No Data	<100	315	No Data	<10	<100	No Data	198
	11/16/1982	No Data	No Data	20	265	No Data	<20	<50	No Data	256
	04/30/1983	No Data	No Data	<10	320	No Data	<10	<100	No Data	320
	05/29/1983	No Data	No Data	<10	332	No Data	<10	40	No Data	370
	07/21/1983	No Data	No Data	70	354	No Data	<10	40	No Data	331

[a] A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "-" indicates an estimated value.
[b] Tritium in tritium units.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	Cd (µg/L)	Conductivity (µmhos/cm)	Cl (mg/L)	Cr (µg/L)	DO (mg/L)	Eh (mV)	F (mg/L)	Fe (µg/L)	Hg (µg/L)
82-02	08/11/1982	No Data	2600	178	No Data	No Data	-85	1	440	No Data
	09/22/1982	No Data	2950	139	No Data	No Data	230	No Data	<50	No Data
	10/19/1982	No Data	2650	146	No Data	No Data	150	No Data	50	No Data
	11/16/1982	No Data	2470	162	No Data	No Data	120	No Data	50	No Data
	04/30/1983	No Data	2900	170	No Data	2.4	190	No Data	<200	No Data
	05/29/1983	No Data	2852	180	No Data	No Data	No Data	No Data	30	No Data
	07/21/1983	No Data	2130	140	No Data	No Data	-40	No Data	50	No Data
	09/19/1983	No Data	2700	160	No Data	No Data	170	No Data	50	No Data
	10/31/1983	No Data	2610	170	No Data	No Data	150	No Data	<100	No Data
	03/19/1984	No Data	3828	180	No Data	No Data	100	No Data	100	No Data
	03/20/1984	No Data	3828	150	No Data	No Data	100	No Data	100	No Data
	05/21/1984	No Data	3937	170	No Data	1.2	200	No Data	<100	No Data
	05/22/1984	No Data	3937	170	No Data	1.2	200	No Data	<100	No Data
	07/23/1984	No Data	3136	183	No Data	1.9	190	No Data	<500	No Data
	07/24/1984	No Data	3136	188	No Data	1.9	190	No Data	<500	No Data
	09/24/1984	No Data	3419	170	No Data	1.3	65	No Data	<500	No Data
	10/29/1984	<2	2898	180	<10	No Data	130	0.55	<100	<1
82-07	08/11/1982	No Data	1750	136	No Data	No Data	-40	1	400	No Data
	09/22/1982	No Data	1600	65	No Data	No Data	190	No Data	<50	No Data
	10/19/1982	No Data	1200	85	No Data	No Data	170	No Data	<50	No Data
	11/16/1982	No Data	1140	67	No Data	No Data	210	No Data	<50	No Data
	04/30/1983	No Data	1450	75	No Data	No Data	200	No Data	<200	No Data
	05/29/1983	No Data	1010	35	No Data	No Data	No Data	No Data	<10	No Data
	07/21/1983	No Data	660	7	No Data	No Data	120	No Data	60	No Data
	09/19/1983	No Data	700	18	No Data	No Data	170	No Data	50	No Data
	10/31/1983	No Data	540	7	No Data	No Data	150	No Data	<100	No Data
	05/21/1984	No Data	679	32	No Data	No Data	150	No Data	200	No Data
	07/23/1984	No Data	1037	27	No Data	2.2	140	No Data	<500	No Data
	09/24/1984	No Data	1573	61	No Data	0.6	175	No Data	<500	No Data
	10/29/1984	No Data	1600	88	No Data	No Data	100	No Data	<100	No Data
	04/09/1985	No Data	1551	70.2	No Data	No Data	No Data	No Data	200	No Data
	05/18/1987	No Data	1280.	28.6	No Data	No Data	170.	No Data	<100	No Data
82-08	08/11/1982	No Data	1890	118	No Data	No Data	50	1	<50	No Data
	09/22/1982	No Data	1900	74	No Data	No Data	230	No Data	<50	No Data
	10/19/1982	No Data	1600	85	No Data	No Data	140	No Data	<50	No Data
	11/16/1982	No Data	1450	72	No Data	No Data	190	No Data	<50	No Data
	04/30/1983	No Data	2500	150	No Data	2.7	200	No Data	<200	No Data
	05/29/1983	No Data	2381	160	No Data	No Data	No Data	No Data	30	No Data
	07/21/1983	No Data	2200	130	No Data	No Data	150	No Data	60	No Data

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	K (mg/L)	Mg (mg/L)	Mn (µg/L)	Mo (µg/L)	Na (mg/L)	NH_4-N (µg/L)	NO_3 (µg/L)	NO_3-N (µg/L)	Pb (µg/L)
82-02	08/11/1982	10	62	420	<50	475	No Data	No Data	2000	No Data
	09/22/1982	18	76	1400	270	617	No Data	22140	No Data	No Data
	10/19/1982	13	51	420	<50	486	No Data	<8856	No Data	No Data
	11/16/1982	13.	69.2	670	<100	525	No Data	No Data	1000	No Data
	04/30/1983	17	80	3100	270	560	No Data	30996	No Data	No Data
	05/29/1983	14	75	1700	90	540	No Data	26568	No Data	No Data
	07/21/1983	14	52	515000	280	442	No Data	2000	No Data	No Data
	09/19/1983	21	82	2600	350	540	No Data	<5000	No Data	No Data
	10/31/1983	15	55	900	220	530	No Data	<5000	No Data	No Data
	03/19/1984	16.2	91	3000	280	664	No Data	No Data	15000	No Data
	03/20/1984	16.4	93	3100	530	656	No Data	No Data	16000	No Data
	05/21/1984	15.0	89	1700	492	580	No Data	50000	No Data	No Data
	05/22/1984	20.2	91	1900	439	610	No Data	46000	No Data	No Data
	07/23/1984	11	66	500	80	432	No Data	600	No Data	No Data
	07/24/1984	11	68	600	100	455	No Data	700	No Data	No Data
	09/24/1984	16.4	84.5	2100	320	630	No Data	<5000	No Data	No Data
	10/29/1984	11.5	61.8	460	70	545	No Data	<5000	No Data	<10
82-07	08/11/1982	14	51	2000	<50	209	No Data	No Data	2000	No Data
	09/22/1982	15	54	500	60	182	No Data	13284	No Data	No Data
	10/19/1982	13	44	630	50	155	No Data	<8856	No Data	No Data
	11/16/1982	12.	46.7	380	<100	149	No Data	No Data	<1000	No Data
	04/30/1983	9.7	50	<200	<10	120	No Data	No Data	No Data	No Data
	05/29/1983	8.9	32	300	80	120	No Data	<22140	No Data	No Data
	07/21/1983	9.2	18	<40000	90	57	No Data	<2000	No Data	No Data
	09/19/1983	10	21	100	70	82	No Data	<5000	No Data	No Data
	10/31/1983	8.7	17	100	80	44	No Data	<5000	No Data	No Data
	05/21/1984	8.38	11	<100	<50	89	No Data	<2000	No Data	No Data
	07/23/1984	8.2	28	<500	60	84	No Data	400	No Data	No Data
	09/24/1984	11.2	48.4	<500	60	147	No Data	<5000	No Data	No Data
	10/29/1984	11.8	58.4	100	60	160	No Data	6000	No Data	No Data
	04/09/1985	9.80	52.6	<50	<50	130	No Data	12000	No Data	No Data
	05/18/1987	7.60	32.5	26	50	99.	No Data	9100	No Data	No Data
82-08	08/11/1982	8	82	160	<50	182	No Data	No Data	6000	No Data
	09/22/1982	19	79	100	<50	180	No Data	13284	No Data	No Data
	10/19/1982	9	67	60	<50	164	No Data	<8856	No Data	No Data
	11/16/1982	7.7	77.	70	<100	159	No Data	No Data	1000	No Data
	04/30/1983	9.2	100	<200	40	240	No Data	No Data	No Data	No Data
	05/29/1983	10	115	50	40	250	No Data	<22140	No Data	No Data
	07/21/1983	13	92	40000	20	203	No Data	2000	No Data	No Data

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "-" indicates an estimated value.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	Pb210 (pCi/L)	pH	PO_4 (mg/L)	Ra226 (pCi/L)	Ra228 (pCi/L)	Se (μg/L)	Si (mg/L)	SO_4 (mg/L)	Total Coliform (colonies/100 mL)
82-02	08/11/1982	No Data	7.2	No Data	<2	No Data	<10	4.8	1650	No Data
	09/22/1982	No Data	7.1	No Data	<2	No Data	<10	6.45	1471	No Data
	10/19/1982	No Data	7.2	No Data	<2	No Data	<10	4.5	1431	No Data
	11/16/1982	No Data	7.4	No Data	<2	No Data	<20	5.59	1390	No Data
	04/30/1983	4	7.1	<.153	<2.0	No Data	<10	6.2	1500	No Data
	05/29/1983	No Data	7.2	<0.050	<2.0	No Data	<10	5.7	1500	No Data
	07/21/1983	No Data	7.4	No Data	<2.0	No Data	<10	5.8	1000	No Data
	09/19/1983	No Data	7.2	No Data	<2.0	No Data	<10	7.0	1600	No Data
	10/31/1983	No Data	7.2	No Data	<2.0	No Data	<10	5.8	1200	No Data
	03/19/1984	No Data	7.	No Data	No Data	No Data	<10	6.56	1800	No Data
	03/20/1984	No Data	7.	No Data	No Data	No Data	<10	7.39	1700	No Data
	05/21/1984	<1.5	6.9	No Data	<2.0	No Data	<10	6.6	1800	No Data
	05/22/1984	<1.5	6.9	No Data	<2.0	No Data	<10	6.5	1700	No Data
	07/23/1984	No Data	7.8	No Data	<2.0	No Data	<10	5	1500	No Data
	07/24/1984	No Data	7.8	No Data	No Data	No Data	<10	5	1540	No Data
	09/24/1984	<1.5	7.2	No Data	<2	No Data	<10	7	1600	No Data
	10/29/1984	No Data	7.1	No Data	<2	No Data	<10	5.1	1400	No Data
82-07	08/11/1982	No Data	6.8	No Data	<2	No Data	13	8.2	1163	No Data
	09/22/1982	No Data	6.9	No Data	<2	No Data	52	9.27	545	No Data
	10/19/1982	No Data	6.9	No Data	<2	No Data	51	7.6	622	No Data
	11/16/1982	No Data	7.1	No Data	<2	No Data	51	8.68	473	No Data
	04/30/1983	No Data	7.4	<.153	No Data	No Data	70	7.1	510	No Data
	05/29/1983	No Data	7.2	<0.050	No Data	No Data	20	7.7	340	No Data
	07/21/1983	No Data	7.3	No Data	<2.0	No Data	20	7.5	130	No Data
	09/19/1983	No Data	7.6	No Data	<2	No Data	30	7.5	200	No Data
	10/31/1983	No Data	7.4	No Data	No Data	No Data	10	7.6	96	No Data
	05/21/1984	No Data	7.8	No Data	<2	No Data	<10	4.1	44	No Data
	07/23/1984	No Data	7.1	No Data	<2.0	No Data	30	7	248	No Data
	09/24/1984	No Data	7.1	No Data	<2	No Data	60	8	560	No Data
	10/29/1984	No Data	6.7	No Data	<2	No Data	37	8.6	710	No Data
	04/09/1985	No Data	6.7	No Data	<1	No Data	40	7.6	784	No Data
	05/18/1987	No Data	7.0	No Data	No Data	No Data	12	No Data	281	No Data
82-08	08/11/1982	No Data	6.4	No Data	No Data	No Data	44	8.1	1292	No Data
	09/22/1982	No Data	6.7	No Data	<2	No Data	38	9.62	763	No Data
	10/19/1982	No Data	6.6	No Data	<2	No Data	38	7.8	871	No Data
	11/16/1982	No Data	6.7	No Data	<2	No Data	37	9.12	840	No Data
	04/30/1983	No Data	6.8	<.153	No Data	No Data	60	7.2	1300	No Data
	05/29/1983	No Data	6.8	<0.050	No Data	No Data	20	7.5	1400	No Data
	07/21/1983	No Data	7.3	No Data	No Data	No Data	<10	9.4	1000	No Data

[a] A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	Temp (deg C)	Th230 (pCi/L)	TOC[b] (mg/L)	U (µg/L)	U234 (pCi/L)	U238 (pCi/L)	V (µg/L)	Zn (µg/L)
82-02	08/11/1982	13	No Data	No Data	240	No Data	No Data	<50	<50
	09/22/1982	12	No Data	No Data	800	No Data	No Data	<50	<50
	10/19/1982	10	No Data	No Data	147	No Data	No Data	<50	<50
	11/16/1982	9	No Data	No Data	242	No Data	No Data	<50	<50
	04/30/1983	10	No Data	No Data	1800	No Data	No Data	<50	50
	05/29/1983	13	No Data	No Data	670	No Data	No Data	20	<50
	07/21/1983	14	No Data	No Data	480	No Data	No Data	10	50
	09/19/1983	14	No Data	No Data	2200	No Data	No Data	40	20
	10/31/1983	12.5	No Data	No Data	800	No Data	No Data	20	50
	03/19/1984	9	No Data	No Data	2200	No Data	No Data	60	<100
	03/20/1984	9	No Data	No Data	2000	No Data	No Data	<50	<100
	05/21/1984	12.5	<1	No Data	1800	No Data	No Data	<50	60
	05/22/1984	12.5	<1	No Data	1800	No Data	No Data	<50	70
	07/23/1984	11	No Data	No Data	900	No Data	No Data	<50	50
	07/24/1984	11	No Data	No Data	800	No Data	No Data	<50	<50
	09/24/1984	10.5	<1	No Data	2300	No Data	No Data	<50	60
	10/29/1984	12	No Data	3.0	300	No Data	No Data	<50	300
82-07	08/11/1982	16	No Data	No Data	410	No Data	No Data	50	270
	09/22/1982	16	No Data	No Data	100	No Data	No Data	900	50
	10/19/1982	10	No Data	No Data	541	No Data	No Data	70	<50
	11/16/1982	7	No Data	No Data	509	No Data	No Data	100	<50
	04/30/1983	9	No Data	No Data	570	No Data	No Data	90	30
	05/29/1983	12	No Data	No Data	410	No Data	No Data	70	<50
	07/21/1983	15	No Data	No Data	230	No Data	No Data	80	<50
	09/19/1983	14	No Data	No Data	290	No Data	No Data	90	60
	10/31/1983	11	No Data	No Data	200	No Data	No Data	70	200
	05/21/1984	16	No Data	No Data	6	No Data	No Data	<50	60
	07/23/1984	14	No Data	No Data	470	No Data	No Data	70	100
	09/24/1984	14.5	No Data	No Data	700	No Data	No Data	80	100
	10/29/1984	11	No Data	No Data	720	No Data	No Data	90	300
	04/09/1985	9	No Data	No Data	400	No Data	No Data	80	<50
	05/18/1987	11.5	No Data	No Data	325	No Data	No Data	60	No Data
82-08	08/11/1982	13	No Data	No Data	240	No Data	No Data	<50	50
	09/22/1982	14	No Data	No Data	272	No Data	No Data	<50	<50
	10/19/1982	11	No Data	No Data	232	No Data	No Data	<50	<50
	11/16/1982	9	No Data	No Data	264	No Data	No Data	<50	50
	04/30/1983	10	No Data	No Data	450	No Data	No Data	<50	60
	05/29/1983	12	No Data	No Data	390	No Data	No Data	10	<50
	07/21/1983	17	No Data	No Data	300	No Data	No Data	10	<50

[a] A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "-" indicates an estimated value.
[b] Total organic carbon.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	3H[b] (TU)	Ag (µg/L)	Al (µg/L)	Alkalinity (ppm)	Alpha (pCi/L)	As (µg/L)	Ba (µg/L)	Beta (pCi/L)	Ca (mg/L)
82-08	09/19/1983	No Data	No Data	<100	304	No Data	<10	<50	No Data	370
	10/31/1983	38	No Data	10	295	No Data	<10	<50	No Data	340
	05/21/1984	No Data	No Data	No Data	347	No Data	<10	<100	No Data	295
	07/23/1984	No Data	No Data	No Data	467	No Data	<10	<100	No Data	383
	09/24/1984	No Data	No Data	No Data	361	No Data	<10	<100	No Data	357
	10/29/1984	No Data	<10	No Data	385	30	<10	<100	<50	360
	04/09/1985	No Data	No Data	No Data	414	No Data	<10	<100	No Data	368
	10/14/1985	No Data	<10	No Data	419	134	<10	<100	100	385
	06/02/1986	No Data	No Data	No Data	310	No Data	<5	<100	No Data	394.
	10/20/1986	No Data	No Data	No Data	231	No Data	<5	No Data	No Data	339.
	05/18/1987	No Data	No Data	No Data	448	No Data	<5	No Data	No Data	468.
	10/13/1987	No Data	No Data	No Data	365	34.2	<5	No Data	No Data	No Data
	04/14/1988	No Data	No Data	No Data	422	127	<5	No Data	<77	No Data
	10/17/1988	No Data	No Data	No Data	380	40	<5	No Data	<26	No Data
	05/10/1989	No Data	No Data	No Data	298	94	<10	No Data	<63	No Data
	10/17/1989	No Data	No Data	No Data	266	<46	<10	No Data	<29	No Data
	04/11/1990	No Data	No Data	No Data	246	<48	<10	No Data	<42	No Data
	10/17/1990	No Data	No Data	No Data	264	95	<10	No Data	No Data	No Data
	06/24/1991	No Data	No Data	No Data	246	138	<10	No Data	No Data	No Data
	10/20/1991	No Data	No Data	No Data	305	160.	<3.00	No Data	No Data	No Data
82-09	08/11/1982	No Data	No Data	<100	367	No Data	<10	<100	No Data	95
	09/22/1982	No Data	No Data	40	326	No Data	<10	60	No Data	101
	10/19/1982	No Data	No Data	<100	390	No Data	<10	<100	No Data	92
	04/30/1983	No Data	No Data	<10	370	No Data	<10	<100	No Data	200
	05/29/1983	No Data	No Data	<10	384	No Data	<10	70	No Data	205
	07/21/1983	No Data	No Data	20	400	No Data	<10	70	No Data	167
	09/19/1983	No Data	No Data	<100	380	No Data	<10	<50	No Data	120
	10/31/1983	No Data	No Data	<10	360	No Data	<10	<50	No Data	110
	05/21/1984	No Data	No Data	No Data	332	No Data	<10	<100	No Data	140
	10/29/1984	No Data	No Data	No Data	412	No Data	<10	<100	No Data	150
	10/14/1985	No Data	No Data	No Data	350	No Data	<10	<100	No Data	153
	06/02/1986	No Data	No Data	No Data	404	No Data	<5	<100	No Data	226.
	10/20/1986	No Data	No Data	No Data	285	No Data	<5	No Data	No Data	129.
	05/18/1987	No Data	No Data	No Data	322	No Data	<5	No Data	No Data	167.
	04/14/1988	No Data	No Data	No Data	318	334	<5	No Data	176	No Data
	10/17/1988	No Data	No Data	No Data	395	265	<5	No Data	147	No Data
	05/10/1989	No Data	No Data	No Data	386	590	<10	No Data	290	No Data
82-13	08/11/1982	No Data	No Data	<100	349	No Data	<10	<100	No Data	116
	09/22/1982	No Data	No Data	10	320	No Data	<10	33	No Data	112

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.
[b]Tritium in tritium units.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	Cd (µg/L)	Conductivity (µmhos/cm)	Cl (mg/L)	Cr (µg/L)	DO (mg/L)	Eh (mV)	F (mg/L)	Fe (µg/L)	Hg (µg/L)
82-08	09/19/1983	No Data	2100	160	No Data	No Data	170	No Data	50	No Data
	10/31/1983	No Data	2400	140	No Data	No Data	150	No Data	<100	No Data
	05/21/1984	No Data	2294	100	No Data	2.2	200	No Data	<100	No Data
	07/23/1984	No Data	2820	172	No Data	1.8	190	No Data	<500	No Data
	09/24/1984	No Data	4638	130	No Data	1.3	50	No Data	<500	No Data
	10/29/1984	<2	2046	130	<10	No Data	35	0.76	<100	<1
	04/09/1985	No Data	2691	190	No Data	No Data	No Data	No Data	100	No Data
	10/14/1985	<1	2876	184	<10	No Data	135	0.73	<30	<.2
	06/02/1986	No Data	2730.	168.	No Data	No Data	150.	No Data	32	No Data
	10/20/1986	No Data	1800.	179.	No Data	No Data	155.	No Data	No Data	No Data
	05/18/1987	No Data	2867.	234.	No Data	No Data	145.	No Data	<100	No Data
	10/13/1987	No Data	2790.	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/14/1988	No Data	2915	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/17/1988	No Data	2810	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	05/10/1989	No Data	2720	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/17/1989	No Data	1960	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/11/1990	No Data	2620	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/17/1990	No Data	2470	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	06/24/1991	No Data	2110	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/20/1991	No Data	2120	No Data	No Data	No Data	No Data	No Data	No Data	No Data
82-09	08/11/1982	No Data	1000	43	No Data	No Data	20	<1	80	No Data
	09/22/1982	No Data	990	28	No Data	No Data	210	No Data	<50	No Data
	10/19/1982	No Data	1000	48	No Data	No Data	-130	No Data	350	No Data
	04/30/1983	No Data	1500	76	No Data	2.6	180	No Data	<200	No Data
	05/29/1983	No Data	1575	58	No Data	No Data	No Data	No Data	50	No Data
	07/21/1983	No Data	1240	50	No Data	No Data	No Data	No Data	370	No Data
	09/19/1983	No Data	1000	25	No Data	No Data	130	No Data	100	No Data
	10/31/1983	No Data	1000	18	No Data	No Data	100	No Data	100	No Data
	05/21/1984	No Data	896	35	No Data	No Data	220	No Data	<100	No Data
	10/29/1984	No Data	1016	28	No Data	No Data	-60	No Data	160	No Data
	10/14/1985	No Data	1452	43.4	No Data	No Data	120	No Data	90	No Data
	06/02/1986	No Data	1125.	73.1	No Data	No Data	130.	No Data	150	No Data
	10/20/1986	No Data	950.	27.4	No Data	No Data	130.	No Data	No Data	No Data
	05/18/1987	No Data	1331.	48.8	No Data	No Data	110.	No Data	<100	No Data
	04/14/1988	No Data	1699	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/17/1988	No Data	2060	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	05/10/1989	No Data	2194	No Data	No Data	No Data	No Data	No Data	No Data	No Data
82-13	08/11/1982	No Data	1300	52	No Data	No Data	-60	<1	50	No Data
	09/22/1982	No Data	1130	44	No Data	No Data	80	No Data	60	No Data

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	K (mg/L)	Mg (mg/L)	Mn (μg/L)	Mo (μg/L)	Na (mg/L)	NH_4-N (μg/L)	NO_3 (μg/L)	NO_3-N (μg/L)	Pb (μg/L)
82-08	09/19/1983	14	98	<50	<20	175	No Data	<5000	No Data	No Data
	10/31/1983	12	95	100	10	200	No Data	<5000	No Data	No Data
	05/21/1984	9.63	83	<100	213	196	No Data	<2000	No Data	No Data
	07/23/1984	14	97	<500	<50	224	No Data	<100	No Data	No Data
	09/24/1984	10.0	91.9	<500	<50	166	No Data	<5000	No Data	No Data
	10/29/1984	9.5	91.0	<50	<50	183	No Data	<5000	No Data	<10
	04/09/1985	10.5	106	<50	<50	219	No Data	1000	No Data	No Data
	10/14/1985	9	97.2	<10	<10	170	No Data	1000	No Data	<10
	06/02/1986	8.0	101.	10	<50	196.	No Data	4000	No Data	No Data
	10/20/1986	7.8	96.	No Data	<50	162.	No Data	No Data	No Data	No Data
	05/18/1987	9.4	113.	<25	<50	220.	No Data	600	No Data	No Data
	10/13/1987	No Data	No Data	No Data	<50	No Data	No Data	2000	No Data	No Data
	04/14/1988	No Data	No Data	No Data	<50	No Data	No Data	700	No Data	No Data
	10/17/1988	No Data	No Data	No Data	<50	No Data	No Data	4100	No Data	No Data
	05/10/1989	No Data	No Data	No Data	15	No Data	No Data	4660	No Data	No Data
	10/17/1989	No Data	No Data	No Data	<10	No Data	No Data	2100	No Data	No Data
	04/11/1990	No Data	No Data	No Data	<10	No Data	No Data	5070	No Data	No Data
	10/17/1990	No Data	No Data	No Data	<10	No Data	No Data	4760	No Data	No Data
	06/24/1991	No Data	No Data	No Data	16	No Data	No Data	9220	No Data	No Data
	10/20/1991	No Data	No Data	No Data	<18.00	No Data	No Data	11900	No Data	No Data
82-09	08/11/1982	12	24	2780	60	200	No Data	No Data	<1000	No Data
	09/22/1982	16	25	2600	90	156	No Data	<4428	No Data	No Data
	10/19/1982	15	27	1880	90	140	No Data	<8856	No Data	No Data
	04/30/1983	16	52	1000	90	150	No Data	No Data	No Data	No Data
	05/29/1983	17.2	50	2200	120	160	No Data	<22140	No Data	No Data
	07/21/1983	19	41	1495000	110	157	No Data	2000	No Data	No Data
	09/19/1983	17	31	1400	140	122	No Data	<5000	No Data	No Data
	10/31/1983	15	27	1800	120	110	No Data	<5000	No Data	No Data
	05/21/1984	11.7	23	100	199	95	No Data	<2000	No Data	No Data
	10/29/1984	12.2	26.8	1220	110	119	No Data	<5000	No Data	No Data
	10/14/1985	12	38.8	1160	90	97.3	No Data	<1000	No Data	No Data
	06/02/1986	15.	50.	810	110	133.	No Data	1000	No Data	No Data
	10/20/1986	14.	32.	No Data	134	109.	No Data	No Data	No Data	No Data
	05/18/1987	12.5	36.3	283	110	120.	No Data	<500	No Data	No Data
	04/14/1988	No Data	No Data	No Data	107	No Data	No Data	5500	No Data	No Data
	10/17/1988	No Data	No Data	No Data	130	No Data	No Data	700	No Data	No Data
	05/10/1989	No Data	No Data	No Data	130	No Data	No Data	7890	No Data	No Data
82-13	08/11/1982	4	30	190	<50	239	No Data	No Data	<1000	No Data
	09/22/1982	6	28	100	<50	208	No Data	<4428	No Data	No Data

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	Pb210 (pCi/L)	pH	PO_4 (mg/L)	Ra226 (pCi/L)	Ra228 (pCi/L)	Se (µg/L)	Si (mg/L)	SO_4 (mg/L)	Total Coliform (colonies/100 mL)
82-08	09/19/1983	No Data	No Data	No Data	<2	No Data	<10	10	1200	No Data
	10/31/1983	No Data	6.6	No Data	No Data	No Data	<10	9.6	1200	No Data
	05/21/1984	No Data	6.8	No Data	<2	No Data	18	7.7	930	No Data
	07/23/1984	No Data	6.9	No Data	<2.0	No Data	<10	9	1190	No Data
	09/24/1984	No Data	6.75	No Data	<2	No Data	<10	12	1000	No Data
	10/29/1984	No Data	6.6	No Data	<2	No Data	<10	10.6	1000	No Data
	04/09/1985	No Data	6.6	No Data	No Data	No Data	10	8.2	1200	No Data
	10/14/1985	No Data	6.6	<0.1	<1.0	No Data	10	10.1	1120	No Data
	06/02/1986	No Data	6.5	No Data	No Data	No Data	9	11.	1170.	No Data
	10/20/1986	No Data	6.0	No Data	No Data	No Data	<5	No Data	1080.	No Data
	05/18/1987	No Data	6.7	No Data	No Data	No Data	8	No Data	1360.	No Data
	10/13/1987	No Data	6.4	No Data	0.2	<1.	<5	No Data	No Data	No Data
	04/14/1988	No Data	6.47	No Data	0.3	<0.8	<5	No Data	No Data	No Data
	10/17/1988	No Data	6.60	No Data	0.3	<1.1	6	No Data	No Data	No Data
	05/10/1989	No Data	6.41	No Data	0.9	<1.0	20	No Data	No Data	No Data
	10/17/1989	No Data	6.10	No Data	0.2	<2.0	<5	No Data	No Data	No Data
	04/11/1990	No Data	6.40	No Data	0.3	<1	7.2	No Data	No Data	No Data
	10/17/1990	No Data	8.03	No Data	0.5	<2	9.6	No Data	No Data	No Data
	06/24/1991	No Data	6.29	No Data	0.2	<2.0	34	No Data	No Data	No Data
	10/20/1991	No Data	6.50	No Data	0.2	<3	24.00	No Data	No Data	No Data
82-09	08/11/1982	No Data	7.0	No Data	No Data	No Data	<10	8.0	350	No Data
	09/22/1982	No Data	7.2	No Data	<2	No Data	<10	9.05	256	No Data
	10/19/1982	No Data	7.1	No Data	<2	No Data	<10	7.2	376	No Data
	04/30/1983	No Data	7.1	<.153	No Data	No Data	<10	7.0	560	No Data
	05/29/1983	No Data	7.1	<0.050	No Data	No Data	<10	6.7	500	No Data
	07/21/1983	No Data	7.3	No Data	No Data	No Data	<10	8.4	440	No Data
	09/19/1983	No Data	7.4	No Data	<2.0	No Data	<10	7.6	320	No Data
	10/31/1983	No Data	7.3	No Data	No Data	No Data	<10	7.8	260	No Data
	05/21/1984	No Data	7.1	No Data	No Data	No Data	<10	13.2	230	No Data
	10/29/1984	No Data	7.35	No Data	No Data	No Data	<10	7.6	260	No Data
	10/14/1985	No Data	7.0	<0.1	No Data	No Data	<5	7.4	386	No Data
	06/02/1986	No Data	6.95	No Data	No Data	No Data	15	9.1	579.	No Data
	10/20/1986	No Data	6.8	No Data	No Data	No Data	<5	No Data	320.	No Data
	05/18/1987	No Data	7.1	No Data	No Data	No Data	<5	No Data	433.	No Data
	04/14/1988	No Data	7.18	No Data	0.4	<1.3	7	No Data	No Data	No Data
	10/17/1988	No Data	6.92	No Data	0.4	<1.4	<5	No Data	No Data	No Data
	05/10/1989	No Data	7.18	No Data	0.6	<1.0	38	No Data	No Data	No Data
82-13	08/11/1982	No Data	6.7	No Data	11	No Data	<10	5.5	400	No Data
	09/22/1982	No Data	7.0	No Data	<2	No Data	<10	4.89	349	No Data

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	Temp (deg C)	Th230 (pCi/L)	TOC[b] (mg/L)	U (μg/L)	U234 (pCi/L)	U238 (pCi/L)	V (μg/L)	Zn (μg/L)
82-08	09/19/1983	16	No Data	No Data	100	No Data	No Data	20	50
	10/31/1983	13	No Data	No Data	100	No Data	No Data	20	150
	05/21/1984	13	No Data	No Data	360	No Data	No Data	<50	80
	07/23/1984	15	No Data	No Data	360	No Data	No Data	<50	80
	09/24/1984	13	No Data	No Data	200	No Data	No Data	<50	80
	10/29/1984	13	No Data	8	134	No Data	No Data	<50	310
	04/09/1985	10	No Data	No Data	30	No Data	No Data	<50	<50
	10/14/1985	11	No Data	No Data	200	No Data	No Data	20	<5
	06/02/1986	12.5	No Data	No Data	100	No Data	No Data	<50	13
	10/20/1986	12.5	No Data	No Data	91	No Data	No Data	<50	No Data
	05/18/1987	11.	No Data	No Data	275	No Data	No Data	<50	No Data
	10/13/1987	12.	No Data	No Data	114	No Data	No Data	<50	No Data
	04/14/1988	8.5	No Data	No Data	176	No Data	No Data	<50	No Data
	10/17/1988	12.9	No Data	No Data	110	No Data	No Data	<50	No Data
	05/10/1989	9.8	No Data	No Data	130	No Data	No Data	<50	No Data
	10/17/1989	13.2	No Data	No Data	49	No Data	No Data	<50	No Data
	04/11/1990	10.7	No Data	No Data	76	No Data	No Data	<50	No Data
	10/17/1990	12.2	No Data	No Data	No Data	43.7	40.2	<50	No Data
	06/24/1991	No Data	No Data	No Data	No Data	82.4	78.6	<50	No Data
	10/20/1991	12.8	<3.8	No Data	No Data	81	79	<10.00	No Data
82-09	08/11/1982	14	No Data	No Data	42	No Data	No Data	<50	60
	09/22/1982	13	No Data	No Data	207	No Data	No Data	<50	<50
	10/19/1982	12	No Data	No Data	263	No Data	No Data	<50	<50
	04/30/1983	8	No Data	No Data	500	No Data	No Data	<50	30
	05/29/1983	12	No Data	No Data	540	No Data	No Data	<10	<50
	07/21/1983	13	No Data	No Data	670	No Data	No Data	<10	<50
	09/19/1983	13	No Data	No Data	400	No Data	No Data	<10	<20
	10/31/1983	11	No Data	No Data	400	No Data	No Data	<10	100
	05/21/1984	11	No Data	No Data	360	No Data	No Data	<50	220
	10/29/1984	11.5	No Data	No Data	300	No Data	No Data	<50	450
	10/14/1985	12	No Data	No Data	500	No Data	No Data	<10	<5
	06/02/1986	14.	No Data	No Data	400	No Data	No Data	<50	<10
	10/20/1986	12.	No Data	No Data	500	No Data	No Data	<50	No Data
	05/18/1987	10.	No Data	No Data	555	No Data	No Data	<50	No Data
	04/14/1988	8.7	No Data	No Data	622	No Data	No Data	<50	No Data
	10/17/1988	12.5	No Data	No Data	710	No Data	No Data	<50	No Data
	05/10/1989	11.5	No Data	No Data	650	No Data	No Data	<50	No Data
82-13	08/11/1982	15	No Data	No Data	140	No Data	No Data	<50	70
	09/22/1982	13	No Data	No Data	350	No Data	No Data	<50	<50

[a] A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.
[b] Total organic carbon.

Momticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	^{3}H[b] (TU)	Ag (μg/L)	Al (μg/L)	Alkalinity (ppm)	Alpha (pCi/L)	As (μg/L)	Ba (μg/L)	Beta (pCi/L)	Ca (mg/L)
82-13	10/19/1982	No Data	No Data	<100	370	No Data	<10	<100	No Data	86
	11/16/1982	No Data	No Data	<20	435	No Data	<20	<50	No Data	110
	04/30/1983	No Data	No Data	<10	370	No Data	<10	<100	No Data	180
	09/19/1983	No Data	No Data	<100	410	No Data	<10	<50	No Data	220
	10/31/1983	No Data	No Data	<10	380	No Data	<10	<50	No Data	220
	03/19/1984	No Data	No Data	<100	372	No Data	21	<100	No Data	149
	03/20/1984	No Data	No Data	<100	372	No Data	<10	<100	No Data	149
	07/23/1984	No Data	No Data	No Data	426	No Data	20	<100	No Data	248
	09/24/1984	No Data	No Data	No Data	468	No Data	<10	<100	No Data	327
	10/29/1984	No Data	No Data	No Data	477	No Data	<10	<100	No Data	352
	04/09/1985	No Data	No Data	No Data	447	No Data	<10	<100	No Data	157
	10/14/1985	No Data	No Data	No Data	444	No Data	<10	<100	No Data	324
	06/02/1986	No Data	No Data	No Data	409	No Data	<5	<100	No Data	282.
	10/20/1986	No Data	No Data	No Data	356	No Data	<5	No Data	No Data	220.
	05/18/1987	No Data	No Data	No Data	366	No Data	<5	No Data	No Data	150.
	04/14/1988	No Data	No Data	No Data	333	206	<5	No Data	245	No Data
	10/17/1988	No Data	No Data	No Data	387	251	<5	No Data	96	No Data
	05/10/1989	No Data	No Data	No Data	358	292	<10	No Data	137	No Data
82-15	09/22/1982	No Data	No Data	<10	290	No Data	<10	131	No Data	142
	09/23/1982	No Data	No Data	10	320	No Data	<10	144	No Data	138
82-16	08/11/1982	No Data	No Data	<100	293	No Data	<10	<100	No Data	130
	09/22/1982	No Data	No Data	<10	281	No Data	<10	45	No Data	139
	10/19/1982	No Data	No Data	<100	315	No Data	<10	<100	No Data	106
	11/16/1982	No Data	No Data	<20	320	No Data	<20	<50	No Data	129
	07/21/1983	No Data	No Data	30	310	No Data	<10	40	No Data	132
	09/19/1983	No Data	No Data	<100	359	No Data	<10	<50	No Data	130
	10/31/1983	No Data	No Data	30	315	No Data	<10	<50	No Data	150
	07/23/1984	No Data	No Data	No Data	329	No Data	<10	<100	No Data	128
82-19	08/11/1982	No Data	No Data	<100	534	No Data	<10	100	No Data	100
	09/22/1982	No Data	No Data	<10	323	No Data	<10	108	No Data	139
	10/19/1982	No Data	No Data	<100	350	No Data	<10	110	No Data	127
	11/16/1982	No Data	No Data	<20	370	No Data	<20	110	No Data	139
	11/17/1982	No Data	No Data	20	345	No Data	<20	80	No Data	128
	04/30/1983	No Data	No Data	20	296	No Data	<10	<100	No Data	140
	05/29/1983	No Data	No Data	<10	281	No Data	<10	70	No Data	130
	07/21/1983	No Data	No Data	30	266	No Data	<10	80	No Data	118
	09/19/1983	No Data	No Data	<100	330	No Data	<10	90	No Data	130
	10/31/1983	No Data	No Data	30	320	No Data	<10	80	No Data	130
	03/19/1984	No Data	No Data	<100	282	No Data	<10	<100	No Data	126

[a] A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "-" indicates an estimated value.
[b] Tritium in tritium units.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	Cd (µg/L)	Conductivity (µmhos/cm)	Cl (mg/L)	Cr (µg/L)	DO (mg/L)	Eh (mV)	F (mg/L)	Fe (µg/L)	Hg (µg/L)
82-13	10/19/1982	No Data	1100	46	No Data	No Data	No Data	No Data	250	No Data
	11/16/1982	No Data	1060	49	No Data	No Data	-40	No Data	1000	No Data
	04/30/1983	No Data	1716	81	No Data	2.1	40	No Data	200	No Data
	09/19/1983	No Data	1450	85	No Data	No Data	-10	No Data	500	No Data
	10/31/1983	No Data	1800	76	No Data	No Data	No Data	No Data	300	No Data
	03/19/1984	No Data	1439	63	No Data	No Data	50	No Data	200	No Data
	03/20/1984	No Data	1439	58	No Data	No Data	50	No Data	200	No Data
	07/23/1984	No Data	2142	127	No Data	1.6	100	No Data	<500	No Data
	09/24/1984	No Data	2527	170	No Data	1.0	40	No Data	500	No Data
	10/29/1984	No Data	2188	170	No Data	No Data	-40	No Data	810	No Data
	04/09/1985	No Data	1633	80	No Data	No Data	No Data	No Data	200	No Data
	10/14/1985	No Data	2970	172	No Data	No Data	40	No Data	220	No Data
	06/02/1986	No Data	2128.	127.	No Data	No Data	80.	No Data	260	No Data
	10/20/1986	No Data	1650.	96.5	No Data	No Data	-60.	No Data	No Data	No Data
	05/18/1987	No Data	1415.	47.5	No Data	No Data	70.	No Data	170	No Data
	04/14/1988	No Data	1754	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/17/1988	No Data	2900	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	05/10/1989	No Data	2580	No Data	No Data	No Data	No Data	No Data	No Data	No Data
82-15	09/22/1982	No Data	750	10	No Data	No Data	140	No Data	70	No Data
	09/23/1982	No Data	690	10	No Data	No Data	220	No Data	<50	No Data
82-16	08/11/1982	No Data	850	46	No Data	No Data	No Data	<1	60	No Data
	09/22/1982	No Data	1000	40	No Data	No Data	60	No Data	80	No Data
	10/19/1982	No Data	1000	44	No Data	No Data	-110	No Data	100	No Data
	11/16/1982	No Data	900	44	No Data	No Data	70	No Data	150	No Data
	07/21/1983	No Data	1060	51	No Data	No Data	No Data	No Data	50	No Data
	09/19/1983	No Data	900	44	No Data	No Data	150	No Data	50	No Data
	10/31/1983	No Data	1200	40	No Data	No Data	-50	No Data	100	No Data
	07/23/1984	No Data	1232	42	No Data	No Data	150	No Data	<500	No Data
82-19	08/11/1982	No Data	700	13	No Data	No Data	-50	<1	100	No Data
	09/22/1982	No Data	700	14	No Data	No Data	180	No Data	70	No Data
	10/19/1982	No Data	700	12	No Data	No Data	60	No Data	100	No Data
	11/16/1982	No Data	720	17	No Data	No Data	10	No Data	680	No Data
	11/17/1982	No Data	950	62	No Data	No Data	20	No Data	310	No Data
	04/30/1983	No Data	816	12	No Data	3.7	170	No Data	210	No Data
	05/29/1983	No Data	590	10	No Data	No Data	No Data	No Data	500	No Data
	07/21/1983	No Data	No Data	6	No Data	No Data	190	No Data	580	No Data
	09/19/1983	No Data	650	9	No Data	No Data	-70	No Data	500	No Data
	10/31/1983	No Data	880	10	No Data	No Data	-10	No Data	300	No Data
	03/19/1984	No Data	798	8	No Data	No Data	-25	No Data	500	No Data

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	K (mg/L)	Mg (mg/L)	Mn (µg/L)	Mo (µg/L)	Na (mg/L)	NH_4-N (µg/L)	NO_3 (µg/L)	NO_3-N (µg/L)	Pb (µg/L)
82-13	10/19/1982	4	25	60	<50	189	No Data	<8856	No Data	No Data
	11/16/1982	3.8	27.9	110	<100	206	No Data	No Data	<1000	No Data
	04/30/1983	4.1	46	<200	<10	220	No Data	No Data	No Data	No Data
	09/19/1983	6	58	100	<20	208	No Data	<5000	No Data	No Data
	10/31/1983	6.4	55	100	<10	230	No Data	<5000	No Data	No Data
	03/19/1984	4.2	37	100	110	197	No Data	No Data	<1000	No Data
	03/20/1984	4.2	37	200	120	185	No Data	No Data	<1000	No Data
	07/23/1984	5.0	64	<500	<50	233	No Data	<100	No Data	No Data
	09/24/1984	5.6	83.1	<500	<50	310	No Data	<5000	No Data	No Data
	10/29/1984	6.8	80.0	190	<50	322	No Data	<5000	No Data	No Data
	04/09/1985	5.00	47.0	50	<50	207	No Data	<1000	No Data	No Data
	10/14/1985	5	80.9	170	<10	298	No Data	<1000	No Data	No Data
	06/02/1986	5.0	74.	160	<50	263.	No Data	<1000	No Data	No Data
	10/20/1986	5.0	58.	No Data	<50	249.	No Data	No Data	No Data	No Data
	05/18/1987	3.30	36.6	79	<50	180.	No Data	<500	No Data	No Data
	04/14/1988	No Data	No Data	No Data	<50	No Data	No Data	<200	No Data	No Data
	10/17/1988	No Data	No Data	No Data	<50	No Data	No Data	200	No Data	No Data
	05/10/1989	No Data	No Data	No Data	<10	No Data	No Data	120	No Data	No Data
82-15	09/22/1982	8	22	1600	<50	38	No Data	<4428	No Data	No Data
	09/23/1982	4	21	1300	<50	40	No Data	<4428	No Data	No Data
82-16	08/11/1982	11	31	1750	100	137	No Data	No Data	1000	No Data
	09/22/1982	13	31	2600	200	129	No Data	<4428	No Data	No Data
	10/19/1982	12	29	2350	160	126	No Data	<8856	No Data	No Data
	11/16/1982	12.	30.5	2900	200	127	No Data	No Data	<1000	No Data
	07/21/1983	13	30.6	990000	140	128	No Data	2000	No Data	No Data
	09/19/1983	13	31	300	150	120	No Data	<5000	No Data	No Data
	10/31/1983	12	31	2700	100	120	No Data	<5000	No Data	No Data
	07/23/1984	10	32	<500	60	116	No Data	<100	No Data	No Data
82-19	08/11/1982	4	15	1600	<50	64	No Data	No Data	1000	No Data
	09/22/1982	5	20	1700	50	48	No Data	8856	No Data	No Data
	10/19/1982	4	22	1480	<50	46	No Data	<8856	No Data	No Data
	11/16/1982	4.5	23.2	2390	<100	62	No Data	No Data	<1000	No Data
	11/17/1982	16.	33.7	2310	<100	143	No Data	No Data	<1000	No Data
	04/30/1983	3.4	22	580	<10	39	No Data	No Data	No Data	No Data
	05/29/1983	3.2	21	900	<10	37	No Data	<22140	No Data	No Data
	07/21/1983	3.2	19	1100000	<20	32	No Data	<2000	No Data	No Data
	09/19/1983	5	20	1400	20	42	No Data	<5000	No Data	No Data
	10/31/1983	3.6	20	1500	<10	36	No Data	<5000	No Data	No Data
	03/19/1984	2.6	20.6	1400	<50	30.0	No Data	No Data	<1000	No Data

[a] A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "-" indicates an estimated value.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	Pb210 (pCi/L)	pH	PO_4 (mg/L)	Ra226 (pCi/L)	Ra228 (pCi/L)	Se (μg/L)	Si (mg/L)	SO_4 (mg/L)	Total Coliform (colonies/100 mL)
82-13	10/19/1982	No Data	7.1	No Data	<2	No Data	<10	3.9	456	No Data
	11/16/1982	No Data	7.2	No Data	<2	No Data	<20	4.81	393	No Data
	04/30/1983	No Data	7.1	<.153	No Data	No Data	<10	4.2	600	No Data
	09/19/1983	No Data	7.4	No Data	<2.0	No Data	<10	5.0	690	No Data
	10/31/1983	No Data	7.4	No Data	No Data	No Data	<10	5.1	620	No Data
	03/19/1984	No Data	7.2	No Data	No Data	No Data	<10	5.28	480	No Data
	03/20/1984	No Data	7.2	No Data	No Data	No Data	<10	5.35	500	No Data
	07/23/1984	No Data	7.05	No Data	No Data	No Data	<10	5	769	No Data
	09/24/1984	No Data	7.1	No Data	No Data	No Data	<10	5	1000	No Data
	10/29/1984	No Data	7.6	No Data	No Data	No Data	<10	5.3	990	No Data
	04/09/1985	No Data	6.8	No Data	No Data	No Data	<5	4.4	560	No Data
	10/14/1985	No Data	6.9	<0.1	No Data	No Data	<5	5.2	1140	No Data
	06/02/1986	No Data	6.8	No Data	No Data	No Data	<5	6.4	904.	No Data
	10/20/1986	No Data	6.75	No Data	No Data	No Data	<5	No Data	760.	No Data
	05/18/1987	No Data	6.9	No Data	No Data	No Data	<5	No Data	433.	No Data
	04/14/1988	No Data	6.72	No Data	<0.1	<0.9	<5	No Data	No Data	No Data
	10/17/1988	No Data	6.47	No Data	0.1	<1.1	<5	No Data	No Data	No Data
	05/10/1989	No Data	6.91	No Data	0.2	<1.0	<5	No Data	No Data	No Data
82-15	09/22/1982	No Data	6.8	No Data	No Data	No Data	<10	7.46	207	No Data
	09/23/1982	No Data	7.1	No Data	<2	No Data	<10	7.51	126	No Data
82-16	08/11/1982	No Data	7.5	No Data	16	No Data	<10	6.4	322	No Data
	09/22/1982	No Data	7.2	No Data	<2	No Data	<10	6.85	338	No Data
	10/19/1982	No Data	7.2	No Data	<2	No Data	<10	5.8	424	No Data
	11/16/1982	No Data	7.4	No Data	<2	No Data	<20	7.06	328	No Data
	07/21/1983	No Data	7.3	No Data	No Data	No Data	<10	7.2	370	No Data
	09/19/1983	No Data	7.8	No Data	<2.0	No Data	<10	6.4	360	No Data
	10/31/1983	No Data	7.7	No Data	No Data	No Data	<10	6.6	350	No Data
	07/23/1984	No Data	7.7	No Data	No Data	No Data	<10	6	325	No Data
82-19	08/11/1982	No Data	6.9	No Data	3	No Data	<10	6.0	109	No Data
	09/22/1982	No Data	7.3	No Data	<2	No Data	<10	7.48	194	No Data
	10/19/1982	No Data	6.9	No Data	<2	No Data	<10	6.3	312	No Data
	11/16/1982	No Data	7.6	No Data	<2	No Data	<20	8.70	207	No Data
	11/17/1982	No Data	7.2	No Data	<2	No Data	<20	8.54	357	No Data
	04/30/1983	No Data	7.6	<.153	<2.0	No Data	<10	6.2	200	No Data
	05/29/1983	No Data	7.3	<0.050	<2.0	No Data	<10	6.9	190	No Data
	07/21/1983	No Data	7.6	No Data	No Data	No Data	<10	6.6	145	No Data
	09/19/1983	No Data	7.7	No Data	<2	No Data	<10	6.8	180	No Data
	10/31/1983	No Data	7.6	No Data	<2.0	No Data	<10	7.1	190	No Data
	03/19/1984	No Data	7.5	No Data	No Data	No Data	<10	6.87	180	No Data

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "-" indicates an estimated value.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	Temp (deg C)	Th230 (pCi/L)	TOC[b] (mg/L)	U (µg/L)	U234 (pCi/L)	U238 (pCi/L)	V (µg/L)	Zn (µg/L)
82-13	10/19/1982	13	No Data	No Data	339	No Data	No Data	<50	<50
	11/16/1982	10	No Data	No Data	339	No Data	No Data	<50	<50
	04/30/1983	9	No Data	No Data	770	No Data	No Data	<50	30
	09/19/1983	11	No Data	No Data	600	No Data	No Data	<10	<20
	10/31/1983	12	No Data	No Data	<1	No Data	No Data	<10	100
	03/19/1984	9	No Data	No Data	600	No Data	No Data	<50	<100
	03/20/1984	9	No Data	No Data	600	No Data	No Data	<50	<100
	07/23/1984	12	No Data	No Data	800	No Data	No Data	<50	300
	09/24/1984	11.5	No Data	No Data	700	No Data	No Data	<50	110
	10/29/1984	12.5	No Data	No Data	800	No Data	No Data	<50	470
	04/09/1985	8	No Data	No Data	400	No Data	No Data	<50	<50
	10/14/1985	11	No Data	No Data	800	No Data	No Data	<10	<5
	06/02/1986	14.	No Data	No Data	300	No Data	No Data	<50	<10
	10/20/1986	11.5	No Data	No Data	600	No Data	No Data	<50	No Data
	05/18/1987	11.5	No Data	No Data	414	No Data	No Data	<50	No Data
	04/14/1988	8.2	No Data	No Data	395	No Data	No Data	<50	No Data
	10/17/1988	11.7	No Data	No Data	570	No Data	No Data	<50	No Data
	05/10/1989	8.9	No Data	No Data	440	No Data	No Data	<50	No Data
82-15	09/22/1982	15	No Data	No Data	41	No Data	No Data	<50	300
	09/23/1982	9	No Data	No Data	24	No Data	No Data	<50	800
82-16	08/11/1982	21	No Data	No Data	100	No Data	No Data	<50	270
	09/22/1982	12	No Data	No Data	137	No Data	No Data	<50	50
	10/19/1982	12	No Data	No Data	95	No Data	No Data	<50	<50
	11/16/1982	7.5	No Data	No Data	81	No Data	No Data	<50	50
	07/21/1983	16	No Data	No Data	100	No Data	No Data	10	<50
	09/19/1983	8	No Data	No Data	200	No Data	No Data	<10	30
	10/31/1983	14	No Data	No Data	126	No Data	No Data	<10	150
	07/23/1984	19	No Data	No Data	140	No Data	No Data	<50	470
82-19	08/11/1982	15.5	No Data	No Data	8	No Data	No Data	<50	200
	09/22/1982	12	No Data	No Data	70	No Data	No Data	<50	50
	10/19/1982	11	No Data	No Data	78	No Data	No Data	<50	<50
	11/16/1982	9	No Data	No Data	13	No Data	No Data	<50	50
	11/17/1982	9	No Data	No Data	280	No Data	No Data	<50	<50
	04/30/1983	7	No Data	No Data	96	No Data	No Data	<50	190
	05/29/1983	8	No Data	No Data	60	No Data	No Data	<10	<50
	07/21/1983	12	No Data	No Data	33	No Data	No Data	<10	<50
	09/19/1983	11	No Data	No Data	19	No Data	No Data	<10	<20
	10/31/1983	11	No Data	No Data	24	No Data	No Data	<10	600
	03/19/1984	8.5	No Data	No Data	46	No Data	No Data	<50	500

[a] A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "-" indicates an estimated value.
[b] Total organic carbon.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	^{3}H[b] (TU)	Ag (µg/L)	Al (µg/L)	Alkalinity (ppm)	Alpha (pCi/L)	As (µg/L)	Ba (µg/L)	Beta (pCi/L)	Ca (mg/L)
82-19	04/18/1984	No Data	No Data	<100	320	No Data	<10	<100	No Data	140
	04/19/1984	No Data	No Data	<100	320	No Data	<10	<100	No Data	140
	05/21/1984	No Data	No Data	No Data	252	No Data	<10	<100	No Data	132
	07/23/1984	No Data	No Data	No Data	353	No Data	<10	<100	No Data	135
	09/24/1984	No Data	No Data	No Data	372	No Data	<10	100	No Data	132
	10/29/1984	No Data	No Data	No Data	349	No Data	<10	<100	No Data	141
	04/09/1985	No Data	No Data	No Data	316	No Data	<10	<100	No Data	132
	10/14/1985	No Data	No Data	No Data	313	No Data	<10	<100	No Data	156
	06/02/1986	No Data	No Data	No Data	348	No Data	<5	<100	No Data	153.
	10/20/1986	No Data	No Data	No Data	231	No Data	<5	No Data	No Data	209.
82-20	08/11/1982	No Data	No Data	<100	235	No Data	<10	<100	No Data	105
	09/22/1982	No Data	No Data	<10	254	No Data	<10	74	No Data	138
	10/19/1982	No Data	No Data	<100	305	No Data	<10	<100	No Data	131
	11/16/1982	No Data	No Data	<20	350	No Data	<20	60	No Data	146
	04/30/1983	No Data	No Data	<10	274	No Data	<10	<100	No Data	130
	05/29/1983	No Data	No Data	10	314	No Data	<10	70	No Data	205
	07/21/1983	No Data	No Data	30	306	No Data	<10	70	No Data	187
	09/19/1983	No Data	No Data	<100	299	No Data	<10	<50	No Data	140
	10/31/1983	No Data	No Data	<10	300	No Data	<10	<50	No Data	150
	03/19/1984	No Data	No Data	<100	250	No Data	<10	<100	No Data	108
	04/18/1984	No Data	No Data	130	252	No Data	<10	<100	No Data	113
	05/21/1984	No Data	No Data	No Data	281	No Data	<10	<100	No Data	126
	07/23/1984	No Data	No Data	No Data	274	No Data	<10	<100	No Data	114
	10/29/1984	No Data	<10	No Data	293	<15	<10	<100	<50	133
	04/09/1985	No Data	<10	No Data	339	<13	10	<100	<5	143
	06/10/1985	No Data	<10	No Data	333	15	<10	<100	10	184
	10/14/1985	No Data	<10	No Data	321	<11	<10	<100	<18	164
	06/02/1986	No Data	<25	No Data	No Data	No Data	<5	<100	No Data	No Data
	10/20/1986	No Data	No Data	No Data	No Data	No Data	<5	No Data	No Data	340.
	10/20/1986	No Data	No Data	No Data	No Data	No Data	<5	No Data	No Data	353.
	10/13/1987	No Data	No Data	No Data	325	27.6	<5	No Data	No Data	No Data
	04/14/1988	No Data	No Data	No Data	336	<48	<5	No Data	<77	No Data
	10/17/1988	No Data	No Data	No Data	383	<30	<5	No Data	<26	No Data
	05/09/1989	No Data	No Data	No Data	335	<68	<10	No Data	<64	No Data
	10/17/1989	No Data	No Data	No Data	379	<56	<10	No Data	<30	No Data
	04/10/1990	No Data	No Data	No Data	298	<54	<10	No Data	<42	No Data
	10/17/1990	No Data	No Data	No Data	318	<76	<10	No Data	No Data	No Data
	06/24/1991	No Data	No Data	No Data	294	<60	<10	No Data	No Data	No Data
	10/20/1991	No Data	No Data	No Data	366	<50.	<3.00	No Data	No Data	No Data

[a] A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "-" indicates an estimated value.
[b] Tritium in tritium units.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	Cd (µg/L)	Conductivity (µmhos/cm)	Cl (mg/L)	Cr (µg/L)	DO (mg/L)	Eh (mV)	F (mg/L)	Fe (µg/L)	Hg (µg/L)
82-19	04/18/1984	No Data	858	9	No Data	No Data	-60	No Data	900	No Data
	04/19/1984	No Data	858	9	No Data	No Data	-60	No Data	800	No Data
	05/21/1984	No Data	768	8	No Data	No Data	-30	No Data	300	No Data
	07/23/1984	No Data	917	12	No Data	3.0	190	No Data	<500	No Data
	09/24/1984	No Data	889	14	No Data	1.6	-90	No Data	1400	No Data
	10/29/1984	No Data	832	14	No Data	No Data	160	No Data	1260	No Data
	04/09/1985	No Data	810	15	No Data	No Data	No Data	No Data	500	No Data
	10/14/1985	No Data	1056	12.3	No Data	No Data	50	No Data	150	No Data
	06/02/1986	No Data	998.	11.3	No Data	No Data	-25.	No Data	2200	No Data
	10/20/1986	No Data	850.	11.9	No Data	No Data	80.	No Data	No Data	No Data
82-20	08/11/1982	No Data	600	10	No Data	No Data	-110	<1	280	No Data
	09/22/1982	No Data	600	10	No Data	No Data	80	No Data	230	No Data
	10/19/1982	No Data	700	10	No Data	No Data	10	No Data	300	No Data
	11/16/1982	No Data	650	9	No Data	No Data	50	No Data	320	No Data
	04/30/1983	No Data	737	12	No Data	2.5	170	No Data	<200	No Data
	05/29/1983	No Data	998	16	No Data	No Data	No Data	No Data	200	No Data
	07/21/1983	No Data	992	8	No Data	No Data	60	No Data	410	No Data
	09/19/1983	No Data	700	11	No Data	No Data	-10	No Data	300	No Data
	10/31/1983	No Data	880	9	No Data	No Data	-120	No Data	400	No Data
	03/19/1984	No Data	670	5	No Data	No Data	35	No Data	300	No Data
	04/18/1984	No Data	643	6	No Data	No Data	170	No Data	200	No Data
	05/21/1984	No Data	552	6	No Data	2.5	90	No Data	100	No Data
	07/23/1984	No Data	748	7.6	No Data	2.7	-10	No Data	600	No Data
	10/29/1984	<2	726	8	<10	No Data	90	0.17	250	<1
	04/09/1985	<1	878	16	10	No Data	No Data	0.2	400	2.3
	06/10/1985	<1	1048	17.9	<10	No Data	35	0.2	100	<.2
	10/14/1985	<1	945	8.9	<10	No Data	150	0.16	60	<.2
	06/02/1986	<5	No Data	15.6	<30	No Data	No Data	0.2	170	<1
	10/20/1986	No Data	No Data	16.9	No Data	No Data	80.	No Data	160	No Data
	10/20/1986	No Data	No Data	17.5	No Data	No Data	80.	No Data	150	No Data
	10/13/1987	No Data	1700.	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/14/1988	No Data	2696	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/17/1988	No Data	3240	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	05/09/1989	No Data	2685	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/17/1989	No Data	2170	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/10/1990	No Data	2780	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/17/1990	No Data	2410	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	06/24/1991	No Data	2450	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/20/1991	No Data	2290	No Data	No Data	No Data	No Data	No Data	No Data	No Data

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	K (mg/L)	Mg (mg/L)	Mn (µg/L)	Mo (µg/L)	Na (mg/L)	NH_4-N (µg/L)	NO_3 (µg/L)	NO_3-N (µg/L)	Pb (µg/L)
82-19	04/18/1984	2.6	20.8	1200	60	38.6	No Data	<4428	No Data	No Data
	04/19/1984	2.6	20.4	1100	<50	35.4	No Data	<4428	No Data	No Data
	05/21/1984	2.6	20	600	<50	32.4	No Data	<2000	No Data	No Data
	07/23/1984	2.6	23	1100	<50	50	No Data	<100	No Data	No Data
	09/24/1984	2.4	24.9	1200	<50	50.8	No Data	<5000	No Data	No Data
	10/29/1984	3.0	23.0	1030	<50	58.9	No Data	<5000	No Data	No Data
	04/09/1985	2.92	23.4	350	<50	42.6	No Data	3000	No Data	No Data
	10/14/1985	2	26.2	240	<10	38.1	No Data	2000	No Data	No Data
	06/02/1986	2.6	25.	1000	<50	58.	No Data	<1000	No Data	No Data
	10/20/1986	3.0	31.	No Data	<50	37.	No Data	No Data	No Data	No Data
82-20	08/11/1982	2	17	3600	<50	37	No Data	No Data	<1000	No Data
	09/22/1982	3	22	3000	<50	30	No Data	<4428	No Data	No Data
	10/19/1982	2	23	2060	<50	31	No Data	<8856	No Data	No Data
	11/16/1982	1.7	23.5	2030	<100	30	No Data	No Data	<1000	No Data
	04/30/1983	1.7	22	2300	<10	31	No Data	No Data	No Data	No Data
	05/29/1983	1.8	32	1800	<10	41	No Data	<22140	No Data	No Data
	07/21/1983	1.9	29.9	No Data	<20	43	No Data	<2000	No Data	No Data
	09/19/1983	2	22	1600	30	41	No Data	<5000	No Data	No Data
	10/31/1983	1.9	21	2300	<10	35	No Data	<5000	No Data	No Data
	03/19/1984	1.4	17.3	1600	<50	25.3	No Data	No Data	<1000	No Data
	04/18/1984	1.53	18.2	2000	60	27.8	No Data	<4428	No Data	No Data
	05/21/1984	1.24	16	800	53	25.4	No Data	<2000	No Data	No Data
	07/23/1984	1.3	18	1200	<50	30	No Data	100	No Data	No Data
	10/29/1984	1.5	22.0	1310	<50	28.2	No Data	<5000	No Data	<10
	04/09/1985	1.82	23.9	1020	60	31.1	No Data	3000	No Data	<10
	06/10/1985	1.73	31.0	630	<50	37.9	No Data	8000	No Data	<10
	10/14/1985	1	25.2	740	<10	35.3	No Data	4000	No Data	<10
	06/02/1986	No Data	No Data	530	No Data	37.	No Data	11956	No Data	<25
	10/20/1986	1.9	47.	1040	<50	51.	No Data	81032.4	No Data	No Data
	10/20/1986	1.9	46.	1050	<50	51.	No Data	81030	No Data	No Data
	10/13/1987	No Data	No Data	No Data	<50	No Data	No Data	174000	No Data	No Data
	04/14/1988	No Data	No Data	No Data	<50	No Data	No Data	143000	No Data	No Data
	10/17/1988	No Data	No Data	No Data	<50	No Data	No Data	219000	No Data	No Data
	05/09/1989	No Data	No Data	No Data	<10	No Data	No Data	86700	No Data	No Data
	10/17/1989	No Data	No Data	No Data	<10	No Data	No Data	31500	No Data	No Data
	04/10/1990	No Data	No Data	No Data	<10	No Data	No Data	5780	No Data	No Data
	10/17/1990	No Data	No Data	No Data	<10	No Data	No Data	4510	No Data	No Data
	06/24/1991	No Data	No Data	No Data	<10	No Data	270	2370	No Data	No Data
	10/20/1991	No Data	No Data	No Data	<18.00	No Data	No Data	3620	No Data	No Data

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	Pb210 (pCi/L)	pH	PO_4 (mg/L)	Ra226 (pCi/L)	Ra228 (pCi/L)	Se (μg/L)	Si (mg/L)	SO_4 (mg/L)	Total Coliform (colonies/100 mL)
82-19	04/18/1984	No Data	7.6	No Data	<2	No Data	<10	6.93	180	No Data
	04/19/1984	No Data	7.6	No Data	<2	No Data	<10	6.83	180	No Data
	05/21/1984	No Data	7.3	No Data	<2	No Data	<10	6.6	190	No Data
	07/23/1984	No Data	7.3	No Data	<1.0	No Data	<10	6	186	No Data
	09/24/1984	No Data	7.3	No Data	<2	No Data	<10	8	200	No Data
	10/29/1984	No Data	7.6	No Data	<2	No Data	<10	7.0	220	No Data
	04/09/1985	No Data	6.8	No Data	No Data	No Data	<5	6.4	180	No Data
	10/14/1985	No Data	7.0	<0.1	No Data	No Data	<5	7.2	232	No Data
	06/02/1986	No Data	7.2	No Data	No Data	No Data	<5	9.1	223.	No Data
	10/20/1986	No Data	6.85	No Data	No Data	No Data	<5	No Data	395.	No Data
82-20	08/11/1982	No Data	7.2	No Data	<2	No Data	<10	4.8	111	No Data
	09/22/1982	No Data	7.1	No Data	No Data	No Data	<10	6.92	187	No Data
	10/19/1982	No Data	6.8	No Data	No Data	No Data	<10	6.3	264	No Data
	11/16/1982	No Data	7.2	No Data	<2	No Data	<20	7.54	200	No Data
	04/30/1983	No Data	7.0	<.153	No Data	No Data	<10	6.6	220	No Data
	05/29/1983	No Data	7.1	<0.050	No Data	No Data	<10	7.2	340	No Data
	07/21/1983	No Data	7.1	No Data	No Data	No Data	<10	7.1	310	No Data
	09/19/1983	No Data	7.5	No Data	<2	No Data	<10	6.6	230	No Data
	10/31/1983	No Data	7.2	No Data	<2.0	No Data	<10	7.2	210	No Data
	03/19/1984	No Data	7.5	No Data	No Data	No Data	<10	6.80	130	No Data
	04/18/1984	No Data	7.5	No Data	<2	No Data	<10	7.01	140	No Data
	05/21/1984	No Data	6.6	No Data	No Data	No Data	<10	7.0	140	No Data
	07/23/1984	No Data	7.2	No Data	No Data	No Data	10	7	153	No Data
	10/29/1984	No Data	6.9	No Data	<2	No Data	<10	7.5	200	<1
	04/09/1985	No Data	6.5	No Data	<1	No Data	6	6.6	210	<1
	06/10/1985	No Data	6.7	No Data	<1	No Data	<10	6.8	324	<1
	10/14/1985	No Data	6.8	<0.1	<1.0	No Data	<5	7.0	230	<1
	06/02/1986	No Data	No Data	No Data	.2	No Data	<5	No Data	381.	No Data
	10/20/1986	No Data	No Data	No Data	<0.2	No Data	14	No Data	681.	No Data
	10/20/1986	No Data	No Data	No Data	<0.3	No Data	15	No Data	684.	No Data
	10/13/1987	No Data	7.0	No Data	<0.1	<1.	22	No Data	No Data	No Data
	04/14/1988	No Data	6.63	No Data	0.1	<1.2	6	No Data	No Data	No Data
	10/17/1988	No Data	6.76	No Data	0.1	<1.0	10	No Data	No Data	No Data
	05/09/1989	No Data	6.71	No Data	0.3	<1.0	<5	No Data	No Data	No Data
	10/17/1989	No Data	6.65	No Data	0.1	<2.0	<5	No Data	No Data	No Data
	04/10/1990	No Data	6.90	No Data	<0.1	<1	<5	No Data	No Data	No Data
	10/17/1990	No Data	7.01	No Data	<1.7	<2	<5	No Data	No Data	No Data
	06/24/1991	No Data	6.69	No Data	0.2	<1	7	No Data	No Data	No Data
	10/20/1991	No Data	6.78	No Data	<0.1	<2	<2.00	No Data	No Data	No Data

[a] A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "-" indicates an estimated value.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	Temp (deg C)	Th230 (pCi/L)	TOC[b] (mg/L)	U (μg/L)	U234 (pCi/L)	U238 (pCi/L)	V (μg/L)	Zn (μg/L)
82-19	04/18/1984	9	No Data	No Data	28	No Data	No Data	<50	<100
	04/19/1984	9	No Data	No Data	28	No Data	No Data	<50	<100
	05/21/1984	11	No Data	No Data	37	No Data	No Data	<50	210
	07/23/1984	9.5	No Data	No Data	12	No Data	No Data	<50	4130
	09/24/1984	11.5	No Data	No Data	11	No Data	No Data	<50	680
	10/29/1984	11	No Data	No Data	23	No Data	No Data	<50	310
	04/09/1985	11	No Data	No Data	51	No Data	No Data	<50	<50
	10/14/1985	10	No Data	No Data	29	No Data	No Data	<10	<5
	06/02/1986	11.	No Data	No Data	12	No Data	No Data	<50	<10
	10/20/1986	12.	No Data	No Data	23	No Data	No Data	<50	No Data
82-20	08/11/1982	13	No Data	No Data	1	No Data	No Data	<50	70
	09/22/1982	9	No Data	No Data	5	No Data	No Data	<50	<50
	10/19/1982	10	No Data	No Data	4	No Data	No Data	<50	<50
	11/16/1982	8	No Data	No Data	4	No Data	No Data	<50	<50
	04/30/1983	8	No Data	No Data	2	No Data	No Data	<50	40
	05/29/1983	11	No Data	No Data	4	No Data	No Data	<10	<50
	07/21/1983	13	No Data	No Data	4	No Data	No Data	<10	<50
	09/19/1983	11	No Data	No Data	4	No Data	No Data	<10	<20
	10/31/1983	12	No Data	No Data	4	No Data	No Data	<10	100
	03/19/1984	8	No Data	No Data	2	No Data	No Data	<50	<100
	04/18/1984	12	No Data	No Data	2	No Data	No Data	<50	2820
	05/21/1984	10	No Data	No Data	2	No Data	No Data	<50	210
	07/23/1984	10.5	No Data	No Data	3	No Data	No Data	<50	2100
	10/29/1984	9	No Data	1.5	1.8	No Data	No Data	<50	250
	04/09/1985	11	No Data	No Data	4	No Data	No Data	60	60
	06/10/1985	11	No Data	No Data	4	No Data	No Data	<50	<50
	10/14/1985	10	No Data	No Data	3	No Data	No Data	<10	<5
	06/02/1986	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/20/1986	No Data	No Data	No Data	6	No Data	No Data	<50	No Data
	10/20/1986	No Data	No Data	No Data	5	No Data	No Data	<50	No Data
	10/13/1987	9.5	No Data	No Data	10	No Data	No Data	<50	No Data
	04/14/1988	8.3	No Data	No Data	12	No Data	No Data	<50	No Data
	10/17/1988	8.2	No Data	No Data	14	No Data	No Data	<50	No Data
	05/09/1989	9.2	No Data	No Data	16	No Data	No Data	<50	No Data
	10/17/1989	9.2	No Data	No Data	18	No Data	No Data	<50	No Data
	04/10/1990	9.4	No Data	No Data	9	No Data	No Data	<50	No Data
	10/17/1990	9.3	No Data	No Data	No Data	5.5	2.5	<50	No Data
	06/24/1991	10.2	No Data	No Data	No Data	5.4	2.5	<50	No Data
	10/20/1991	10.0	0.4	No Data	No Data	5.3	2.5	<10.00	No Data

[a] A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.
[b] Total organic carbon.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	^3H[b] (TU)	Ag (µg/L)	Al (µg/L)	Alkalinity (ppm)	Alpha (pCi/L)	As (µg/L)	Ba (µg/L)	Beta (pCi/L)	Ca (mg/L)
82-20	04/14/1992	No Data	No Data	No Data	249	<40	<2.0	No Data	No Data	No Data
82-30B	08/11/1982	No Data	No Data	117	467	No Data	96	<100	No Data	114
	09/22/1982	No Data	No Data	<10	440	No Data	98	50	No Data	113
	10/19/1982	No Data	No Data	<100	460	No Data	108	<100	No Data	79
	11/16/1982	No Data	No Data	40	425	No Data	202	<50	No Data	59
	04/30/1983	No Data	No Data	<10	480	No Data	140	<100	No Data	120
	05/29/1983	No Data	No Data	<10	474	No Data	130	40	No Data	128
	07/21/1983	No Data	No Data	40	530	No Data	130	40	No Data	132
	09/19/1983	No Data	No Data	<100	495	No Data	160	<50	No Data	110
	10/31/1983	No Data	No Data	20	425	No Data	140	<50	No Data	100
	05/21/1984	No Data	No Data	No Data	405	No Data	131	<100	No Data	104
	07/23/1984	No Data	No Data	No Data	431	No Data	140	<100	No Data	105
	09/24/1984	No Data	No Data	No Data	429	No Data	140	<100	No Data	116
	10/14/1985	No Data	No Data	No Data	434	No Data	190	<100	No Data	105
	06/02/1986	No Data	No Data	No Data	471	No Data	150	<100	No Data	116.
	10/20/1986	No Data	No Data	No Data	453	No Data	170	No Data	No Data	114.
	05/18/1987	No Data	No Data	No Data	462	No Data	140	No Data	No Data	134.
	10/13/1987	No Data	No Data	No Data	448	454.	174	No Data	No Data	No Data
	04/14/1988	No Data	No Data	No Data	435	319	112	No Data	121	No Data
	10/17/1988	No Data	No Data	No Data	431	354	190	No Data	128	No Data
	05/09/1989	No Data	No Data	No Data	364	506	140	No Data	208	No Data
	10/18/1989	No Data	No Data	No Data	410	637	35	No Data	270	No Data
	04/11/1990	No Data	No Data	No Data	418	658	100	No Data	155	No Data
	10/17/1990	No Data	No Data	No Data	433	575	140	No Data	No Data	No Data
	06/24/1991	No Data	No Data	No Data	382	409	113	No Data	No Data	No Data
	10/20/1991	No Data	No Data	No Data	375	500.	127.00	No Data	No Data	No Data
	04/15/1992	No Data	No Data	No Data	419	440	95.0	No Data	No Data	No Data
82-30C	08/11/1982	No Data	No Data	<100	380	No Data	49	100	No Data	132
	09/22/1982	No Data	No Data	10	370	No Data	127	48	No Data	128
	10/19/1982	No Data	No Data	<100	340	No Data	95	<100	No Data	96
	11/16/1982	No Data	No Data	<20	395	No Data	197	<50	No Data	122
	04/30/1983	No Data	No Data	20	380	No Data	100	<100	No Data	170
	05/29/1983	No Data	No Data	<10	386	No Data	100	50	No Data	175
	07/21/1983	No Data	No Data	10	465	No Data	120	60	No Data	179
	09/19/1983	No Data	No Data	<100	415	No Data	150	<50	No Data	150
	10/31/1983	No Data	No Data	<10	355	No Data	140	<50	No Data	140
	05/21/1984	No Data	No Data	No Data	No Data	No Data	1104	120	No Data	162
	05/21/1984	No Data	No Data	No Data	345	No Data	104	<100	No Data	150
	07/23/1984	No Data	No Data	No Data	360	No Data	100	<100	No Data	141

[a] A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "-" indicates an estimated value.
[b] Tritium in tritium units.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	Cd (µg/L)	Conductivity (µmhos/cm)	Cl (mg/L)	Cr (µg/L)	DO (mg/L)	Eh (mV)	F (mg/L)	Fe (µg/L)	Hg (µg/L)
82-20	04/14/1992	No Data	1973	No Data	No Data	No Data	No Data	No Data	No Data	No Data
82-30B	08/11/1982	No Data	2030	203	No Data	No Data	40	1	110	No Data
	09/22/1982	No Data	1900	138	No Data	No Data	180	No Data	50	No Data
	10/19/1982	No Data	1750	172	No Data	No Data	-40	No Data	50	No Data
	11/16/1982	No Data	1690	167	No Data	No Data	150	No Data	60	No Data
	04/30/1983	No Data	2000	170	No Data	1.6	130	No Data	530	No Data
	05/29/1983	No Data	1950	140	No Data	No Data	No Data	No Data	200	No Data
	07/21/1983	No Data	1950	140	No Data	No Data	No Data	No Data	<50	No Data
	09/19/1983	No Data	1600	120	No Data	No Data	170	No Data	300	No Data
	10/31/1983	No Data	1700	121	No Data	No Data	150	No Data	300	No Data
	05/21/1984	No Data	1829	120	No Data	1.2	190	No Data	<100	No Data
	07/23/1984	No Data	1885	127	No Data	1.5	220	No Data	<500	No Data
	09/24/1984	No Data	1832	130	No Data	0.5	145	No Data	<500	No Data
	10/14/1985	No Data	2120	124	No Data	No Data	140	No Data	<30	No Data
	06/02/1986	No Data	1656.	107.	No Data	No Data	150.	No Data	210	No Data
	10/20/1986	No Data	1500.	118.	No Data	No Data	130.	No Data	No Data	No Data
	05/18/1987	No Data	1911.	82.6	No Data	No Data	140.	No Data	140	No Data
	10/13/1987	No Data	2100.	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/14/1988	No Data	2059	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/17/1988	No Data	2120	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	05/09/1989	No Data	2300	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/18/1989	No Data	2030	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/11/1990	No Data	2590	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/17/1990	No Data	2240	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	06/24/1991	No Data	2270	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/20/1991	No Data	2070	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/15/1992	No Data	1991	No Data	No Data	No Data	No Data	No Data	No Data	No Data
82-30C	08/11/1982	No Data	1550	145	No Data	No Data	-150	1	1780	No Data
	09/22/1982	No Data	1500	162	No Data	No Data	50	No Data	140	No Data
	10/19/1982	No Data	1400	160	No Data	No Data	20	No Data	50	No Data
	11/16/1982	No Data	1350	134	No Data	No Data	260	No Data	<50	No Data
	04/30/1983	No Data	1600	130	No Data	1.9	190	No Data	<200	No Data
	05/29/1983	No Data	1600	130	No Data	No Data	No Data	No Data	20	No Data
	07/21/1983	No Data	1700	120	No Data	No Data	20	No Data	<50	No Data
	09/19/1983	No Data	1300	99	No Data	No Data	170	No Data	50	No Data
	10/31/1983	No Data	1400	110	No Data	No Data	130	No Data	<100	No Data
	05/21/1984	No Data	No Data	91	No Data	No Data	No Data	No Data	<100	No Data
	05/21/1984	No Data	1512	86	No Data	1.1	190	No Data	<100	No Data
	07/23/1984	No Data	1736	115	No Data	2.0	200	No Data	<500	No Data

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	K (mg/L)	Mg (mg/L)	Mn (µg/L)	Mo (µg/L)	Na (mg/L)	NH_4-N (µg/L)	NO_3 (µg/L)	NO_3-N (µg/L)	Pb (µg/L)
82-20	04/14/1992	No Data	No Data	No Data	<21.0	No Data	No Data	3010	No Data	No Data
82-30B	08/11/1982	42	27	3810	270	422	No Data	No Data	2000	No Data
	09/22/1982	45	27	3300	530	470	No Data	<4428	No Data	No Data
	10/19/1982	48	23	2670	600	397	No Data	<8856	No Data	No Data
	11/16/1982	45.	25.6	2980	600	419	No Data	No Data	<1000	No Data
	04/30/1983	46	33	3600	490	400	No Data	No Data	No Data	No Data
	05/29/1983	45	32	3400	440	390	No Data	<22140	No Data	No Data
	07/21/1983	56	31	3130000	490	405	No Data	<2000	No Data	No Data
	09/19/1983	46	26	3000	410	340	No Data	<5000	No Data	No Data
	10/31/1983	49	25	3200	410	370	No Data	<5000	No Data	No Data
	05/21/1984	41.2	23	2000	402	291	No Data	<2000	No Data	No Data
	07/23/1984	40	24	2500	500	295	No Data	<100	No Data	No Data
	09/24/1984	43.5	27.6	1500	520	348	No Data	<5000	No Data	No Data
	10/14/1985	35	27.4	2610	480	336	No Data	1000	No Data	No Data
	06/02/1986	40.	28.	2800	480	370.	No Data	<1000	No Data	No Data
	10/20/1986	44.	27.	No Data	457	302.	No Data	No Data	No Data	No Data
	05/18/1987	40.2	28.8	3200	330	300.	No Data	<500	No Data	No Data
	10/13/1987	No Data	No Data	No Data	410	No Data	No Data	<1000	No Data	No Data
	04/14/1988	No Data	No Data	No Data	351	No Data	No Data	700	No Data	No Data
	10/17/1988	No Data	No Data	No Data	360	No Data	No Data	300	No Data	No Data
	05/09/1989	No Data	No Data	No Data	360	No Data	No Data	3450	No Data	No Data
	10/18/1989	No Data	No Data	No Data	359	No Data	No Data	250	No Data	No Data
	04/11/1990	No Data	No Data	No Data	330	No Data	No Data	210	No Data	No Data
	10/17/1990	No Data	No Data	No Data	293	No Data	No Data	160	No Data	No Data
	06/24/1991	No Data	No Data	No Data	228	No Data	2250	150	No Data	No Data
	10/20/1991	No Data	No Data	No Data	272.00	No Data	No Data	110	No Data	No Data
	04/15/1992	No Data	No Data	No Data	184	No Data	No Data	~261	No Data	No Data
82-30C	08/11/1982	24	26	3000	180	286	No Data	No Data	<1000	No Data
	09/22/1982	28	25	2100	460	309	No Data	<4428	No Data	No Data
	10/19/1982	28	23	1660	520	278	No Data	<8856	No Data	No Data
	11/16/1982	28.	25.4	1870	500	283	No Data	No Data	<1000	No Data
	04/30/1983	25	33	2300	300	240	No Data	No Data	No Data	No Data
	05/29/1983	25	34	2300	340	250	No Data	<22140	No Data	No Data
	07/21/1983	31	34	2075000	460	249	No Data	<2000	No Data	No Data
	09/19/1983	28	28	2100	350	224	No Data	<5000	No Data	No Data
	10/31/1983	27	25	2100	300	230	No Data	<5000	No Data	No Data
	05/21/1984	20.8	25	1500	319	189	No Data	<2000	No Data	No Data
	05/21/1984	20.8	24	1500	288	191	No Data	<2000	No Data	No Data
	07/23/1984	22	27	1700	410	295	No Data	100	No Data	No Data

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	Pb210 (pCi/L)	pH	PO_4 (mg/L)	Ra226 (pCi/L)	Ra228 (pCi/L)	Se (μg/L)	Si (mg/L)	SO_4 (mg/L)	Total Coliform (colonies/100 mL)
82-20	04/14/1992	No Data	6.57	No Data	0.2	<1	~30.0	No Data	No Data	No Data
82-30B	08/11/1982	No Data	7.3	No Data	7	No Data	75	7.9	644	No Data
	09/22/1982	No Data	7.1	No Data	<2	No Data	90	8.26	599	No Data
	10/19/1982	No Data	7.3	No Data	<2	No Data	112	7.5	640	No Data
	11/16/1982	No Data	7.4	No Data	<2	No Data	120	9.27	567	No Data
	04/30/1983	No Data	7.3	.399	No Data	No Data	70	8.3	750	No Data
	05/29/1983	No Data	7.3	0.072	No Data	No Data	80	8.9	620	No Data
	07/21/1983	No Data	7.3	No Data	<2.0	No Data	110	8.9	700	No Data
	09/19/1983	No Data	7.3	No Data	<2	No Data	100	8.7	510	No Data
	10/31/1983	No Data	7.6	No Data	<2.0	No Data	90	8.1	510	No Data
	05/21/1984	No Data	7.3	No Data	No Data	No Data	53	8.9	470	No Data
	07/23/1984	No Data	7.1	No Data	No Data	No Data	70	7	529	No Data
	09/24/1984	No Data	7.3	No Data	No Data	No Data	120	8	530	No Data
	10/14/1985	No Data	7.2	0.5	No Data	No Data	160	8.4	534	No Data
	06/02/1986	No Data	7.35	No Data	No Data	No Data	80	10.	588.	No Data
	10/20/1986	No Data	7.15	No Data	No Data	No Data	67	No Data	524.	No Data
	05/18/1987	No Data	7.2	No Data	No Data	No Data	55	No Data	554.	No Data
	10/13/1987	No Data	7.0	No Data	0.3	<1.	110	No Data	No Data	No Data
	04/14/1988	No Data	7.21	No Data	0.4	<0.7	73	No Data	No Data	No Data
	10/17/1988	No Data	7.2	No Data	0.5	<1.4	62	No Data	No Data	No Data
	05/09/1989	No Data	7.05	No Data	0.5	<1.0	43	No Data	No Data	No Data
	10/18/1989	No Data	7.06	No Data	0.6	<2.0	89	No Data	No Data	No Data
	04/11/1990	No Data	6.98	No Data	0.4	<1	40	No Data	No Data	No Data
	10/17/1990	No Data	7.34	No Data	0.4	<3	35	No Data	No Data	No Data
	06/24/1991	No Data	7.00	No Data	0.4	<2	38	No Data	No Data	No Data
	10/20/1991	No Data	7.18	No Data	0.3	<3	18.50	No Data	No Data	No Data
	04/15/1992	No Data	6.96	No Data	0.4	<1	33.1	No Data	No Data	No Data
82-30C	08/11/1982	No Data	7.3	No Data	20	No Data	61	6.8	483	No Data
	09/22/1982	No Data	7.0	No Data	<2	No Data	130	7.99	497	No Data
	10/19/1982	No Data	7.1	No Data	<2	No Data	134	7.6	640	No Data
	11/16/1982	No Data	7.1	No Data	<2	No Data	147	8.92	474	No Data
	04/30/1983	No Data	7.2	.23	No Data	No Data	90	7.8	630	No Data
	05/29/1983	No Data	7.2	<0.050	No Data	No Data	100	8.8	610	No Data
	07/21/1983	No Data	7.2	No Data	<2.0	No Data	120	7.9	570	No Data
	09/19/1983	No Data	7.3	No Data	<2	No Data	100	8.5	430	No Data
	10/31/1983	No Data	7.3	No Data	<2.0	No Data	100	8.3	463	No Data
	05/21/1984	3	No Data	No Data	<2.0	No Data	54	9.7	410	No Data
	05/21/1984	<1.5	7.0	No Data	<2	No Data	55	8.8	420	No Data
	07/23/1984	No Data	7.2	No Data	<2.0	No Data	100	8	489	No Data

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	Temp (deg C)	Th230 (pCi/L)	TOC[b] (mg/L)	U (µg/L)	U234 (pCi/L)	U238 (pCi/L)	V (µg/L)	Zn (µg/L)
82-20	04/14/1992	8.8	<0.10	No Data	No Data	6.1	2.7	<7.0	No Data
82-30B	08/11/1982	15	No Data	No Data	720	No Data	No Data	2350	<50
	09/22/1982	14	No Data	No Data	697	No Data	No Data	3850	<50
	10/19/1982	10	No Data	No Data	586	No Data	No Data	4260	<50
	11/16/1982	8.5	No Data	No Data	600	No Data	No Data	4500	<50
	04/30/1983	9	No Data	No Data	700	No Data	No Data	3600	20
	05/29/1983	10	No Data	No Data	700	No Data	No Data	3700	<50
	07/21/1983	14	No Data	No Data	760	No Data	No Data	3200	<50
	09/19/1983	13	No Data	No Data	700	No Data	No Data	4000	<20
	10/31/1983	11	No Data	No Data	600	No Data	No Data	3600	50
	05/21/1984	13	No Data	No Data	600	No Data	No Data	4140	60
	07/23/1984	13	No Data	No Data	700	No Data	No Data	4030	140
	09/24/1984	10.5	No Data	No Data	800	No Data	No Data	3870	90
	10/14/1985	11	No Data	No Data	700	No Data	No Data	4700	<5
	06/02/1986	10.	No Data	No Data	600	No Data	No Data	4300	<10
	10/20/1986	13.	No Data	No Data	500	No Data	No Data	4300	No Data
	05/18/1987	11.	No Data	No Data	683	No Data	No Data	3700	No Data
	10/13/1987	10.	No Data	No Data	612	No Data	No Data	4220	No Data
	04/14/1988	10.4	No Data	No Data	612	No Data	No Data	4290	No Data
	10/17/1988	10.4	No Data	No Data	590	No Data	No Data	4100	No Data
	05/09/1989	10.1	No Data	No Data	590	No Data	No Data	4000	No Data
	10/18/1989	11.6	No Data	No Data	666	No Data	No Data	4290	No Data
	04/11/1990	10.7	No Data	No Data	730	No Data	No Data	370	No Data
	10/17/1990	11.5	No Data	No Data	No Data	236	250	3540	No Data
	06/24/1991	9.7	No Data	No Data	No Data	227	241	3000	No Data
	10/20/1991	10.0	<3.6	No Data	No Data	226	252	3630.00	No Data
	04/15/1992	10.6	0.3	No Data	No Data	248.7	250.4	2980	No Data
82-30C	08/11/1982	13.5	No Data	No Data	100	No Data	No Data	690	<50
	09/22/1982	13	No Data	No Data	450	No Data	No Data	4200	<50
	10/19/1982	10	No Data	No Data	372	No Data	No Data	4570	<50
	11/16/1982	9.5	No Data	No Data	339	No Data	No Data	4800	<50
	04/30/1983	9	No Data	No Data	510	No Data	No Data	3500	20
	05/29/1983	10	No Data	No Data	460	No Data	No Data	3500	<50
	07/21/1983	14	No Data	No Data	480	No Data	No Data	3400	<50
	09/19/1983	13	No Data	No Data	400	No Data	No Data	4000	<20
	10/31/1983	10.5	No Data	No Data	300	No Data	No Data	4100	50
	05/21/1984	No Data	<1	No Data	370	No Data	No Data	3710	80
	05/21/1984	12	<1	No Data	350	No Data	No Data	3280	90
	07/23/1984	13	No Data	No Data	500	No Data	No Data	3740	<50

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "-" indicates an estimated value.
[b]Total organic carbon.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	3H[b] (TU)	Ag (µg/L)	Al (µg/L)	Alkalinity (ppm)	Alpha (pCi/L)	As (µg/L)	Ba (µg/L)	Beta (pCi/L)	Ca (mg/L)
82-30C	07/24/1984	No Data	No Data	No Data	360	No Data	120	<100	No Data	140
	09/24/1984	No Data	No Data	No Data	579	No Data	130	<100	No Data	123
	09/25/1984	No Data	No Data	No Data	579	No Data	130	<100	No Data	122
	10/29/1984	No Data	No Data	No Data	379	No Data	200	<100	No Data	132
	10/30/1984	No Data	No Data	No Data	379	No Data	220	<100	No Data	126
	04/09/1985	No Data	<10	No Data	393	90	100	<100	90	158
	10/14/1985	No Data	No Data	No Data	373	No Data	160	<100	No Data	134
	06/02/1986	No Data	No Data	No Data	471	No Data	130	<100	No Data	151.
	10/20/1986	No Data	No Data	No Data	No Data	No Data	110	No Data	No Data	160.
	06/24/1991	No Data	No Data	No Data	355	No Data	No Data	No Data	No Data	No Data
	10/20/1991	No Data	No Data	No Data	117	No Data	No Data	No Data	No Data	No Data
82-31B-E	08/11/1982	No Data	No Data	<100	402	No Data	<10	<100	No Data	501
	09/22/1982	No Data	No Data	<10	380	No Data	<10	24	No Data	530
	10/19/1982	No Data	No Data	<100	475	No Data	<10	<100	No Data	460
	11/16/1982	No Data	No Data	<20	440	No Data	<20	<50	No Data	580
	04/30/1983	No Data	No Data	<10	348	No Data	<10	<100	No Data	360
	05/29/1983	No Data	No Data	10	354	No Data	<10	30	No Data	540
	07/21/1983	No Data	No Data	40	396	No Data	<10	20	No Data	581
	09/19/1983	No Data	No Data	<100	424	No Data	<10	<50	No Data	580
	10/31/1983	No Data	No Data	<10	408	No Data	<10	<50	No Data	560
	05/21/1984	No Data	No Data	No Data	356	No Data	<10	<100	No Data	478
	07/23/1984	No Data	No Data	No Data	438	No Data	<10	<100	No Data	582
	10/14/1985	No Data	No Data	No Data	374	No Data	<10	<100	No Data	591
	06/02/1986	No Data	No Data	No Data	371	No Data	5	<100	No Data	520.
	10/20/1986	No Data	No Data	No Data	245	No Data	<5	No Data	No Data	594.
	05/18/1987	No Data	No Data	No Data	412	No Data	<5	No Data	No Data	417.
	10/13/1987	No Data	No Data	No Data	355	38.2	<5	No Data	No Data	No Data
	04/14/1988	No Data	No Data	No Data	340	<49	<5	No Data	<77	No Data
	10/17/1988	No Data	No Data	No Data	440	39	<5	No Data	<39	No Data
	05/10/1989	No Data	No Data	No Data	381	<99	<10	No Data	<126	No Data
	10/18/1989	No Data	No Data	No Data	426	<66	<10	No Data	<43	No Data
	04/11/1990	No Data	No Data	No Data	384	<65	<10	No Data	<56	No Data
	10/17/1990	No Data	No Data	No Data	395	<102	<10	No Data	No Data	No Data
	06/24/1991	No Data	No Data	No Data	338	<78	<10	No Data	No Data	No Data
	06/24/1991	No Data	No Data	No Data	No Data	<74	<10	No Data	No Data	No Data
	10/20/1991	No Data	No Data	No Data	173	<80.	<3.00	No Data	No Data	No Data
	10/20/1991	No Data	No Data	No Data	No Data	<80.	<3.00	No Data	No Data	No Data
	04/14/1992	No Data	No Data	No Data	348	<90	<2.0	No Data	No Data	No Data
82-31B-W	08/11/1982	No Data	No Data	<100	351	No Data	<10	<100	No Data	136

[a] A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "-" indicates an estimated value.
[b] Tritium in tritium units.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	Cd (μg/L)	Conductivity (μmhos/cm)	Cl (mg/L)	Cr (μg/L)	DO (mg/L)	Eh (mV)	F (mg/L)	Fe (μg/L)	Hg (μg/L)
82-30C	07/24/1984	No Data	1736	123	No Data	2.0	200	No Data	<500	No Data
	09/24/1984	No Data	1651	110	No Data	0.5	155	No Data	<500	No Data
	09/25/1984	No Data	1651	110	No Data	0.5	155	No Data	<500	No Data
	10/29/1984	No Data	1544	110	No Data	No Data	140	No Data	<100	No Data
	10/30/1984	No Data	1544	721	No Data	No Data	140	No Data	<100	No Data
	04/09/1985	<1	1632	108	<10	No Data	No Data	0.5	<100	<.2
	10/14/1985	No Data	1716	96.5	No Data	No Data	150	No Data	<30	No Data
	06/02/1986	No Data	1701.	92.3	No Data	No Data	160.	No Data	31	No Data
	10/20/1986	No Data	No Data	88.9	No Data	No Data	150.	No Data	<100	No Data
	06/24/1991	No Data	1807	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/20/1991	No Data	1722	No Data	No Data	No Data	No Data	No Data	No Data	No Data
82-31B-E	08/11/1982	No Data	3620	33	No Data	No Data	60	1	<50	No Data
	09/22/1982	No Data	2700	53	No Data	No Data	40	No Data	180	No Data
	10/19/1982	No Data	2750	57	No Data	No Data	50	No Data	150	No Data
	11/16/1982	No Data	2500	54	No Data	No Data	180	No Data	60	No Data
	04/30/1983	No Data	2046	62	No Data	2.1	200	No Data	<200	No Data
	05/29/1983	No Data	2369	29	No Data	No Data	No Data	No Data	<10	No Data
	07/21/1983	No Data	2200	39	No Data	No Data	60	No Data	50	No Data
	09/19/1983	No Data	2300	52	No Data	No Data	150	No Data	50	No Data
	10/31/1983	No Data	3000	54	No Data	No Data	-20	No Data	<100	No Data
	05/21/1984	No Data	2358	23	No Data	1.8	200	No Data	<100	No Data
	07/23/1984	No Data	2196	48	No Data	1.8	20	No Data	<500	No Data
	10/14/1985	No Data	3340	34.2	No Data	No Data	150	No Data	<30	No Data
	06/02/1986	No Data	2562.	40.2	No Data	No Data	20.	No Data	<30	No Data
	10/20/1986	No Data	1150.	40.8	No Data	No Data	40.	No Data	No Data	No Data
	05/18/1987	No Data	2075.	33.4	No Data	No Data	70.	No Data	<100	No Data
	10/13/1987	No Data	2820.	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/14/1988	No Data	2978	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/17/1988	No Data	3290	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	05/10/1989	No Data	3200	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/18/1989	No Data	2500	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/11/1990	No Data	3210	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/17/1990	No Data	3120	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	06/24/1991	No Data	3010	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	06/24/1991	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/20/1991	No Data	3150	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/20/1991	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/14/1992	No Data	2610	No Data	No Data	No Data	No Data	No Data	No Data	No Data
82-31B-W	08/11/1982	No Data	1700	8	No Data	No Data	-20	<1	420	No Data

[a] A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	K (mg/L)	Mg (mg/L)	Mn (µg/L)	Mo (µg/L)	Na (mg/L)	NH_4-N (µg/L)	NO_3 (µg/L)	NO_3-N (µg/L)	Pb (µg/L)
82-30C	07/24/1984	22	27	1700	420	140	No Data	200	No Data	No Data
	09/24/1984	25.4	28.4	1800	480	248	No Data	<5000	No Data	No Data
	09/25/1984	25.3	38.3	1800	460	254	No Data	<5000	No Data	No Data
	10/29/1984	23.6	25.5	1700	500	262	No Data	<5000	No Data	No Data
	10/30/1984	22.8	25.0	1720	440	244	No Data	<5000	No Data	No Data
	04/09/1985	24.3	29.4	2040	340	224	No Data	2000	No Data	<10
	10/14/1985	19	27.8	1790	350	231	No Data	2000	No Data	No Data
	06/02/1986	22.	28.	2100	370	224.	No Data	2000	No Data	No Data
	10/20/1986	21.	27.	1870	322	214.	No Data	9741.6	No Data	No Data
	06/24/1991	No Data	No Data	No Data	No Data	No Data	No Data	180	No Data	No Data
	10/20/1991	No Data	No Data	No Data	No Data	No Data	No Data	120	No Data	No Data
82-31B-E	08/11/1982	9	128	420	<50	216	No Data	No Data	<1000	No Data
	09/22/1982	12	134	300	<50	231	No Data	<4428	No Data	No Data
	10/19/1982	12	106	180	<50	219	No Data	<8856	No Data	No Data
	11/16/1982	9.6	143	320	<100	228	No Data	No Data	<1000	No Data
	04/30/1983	5.7	74	<200	<10	100	No Data	No Data	No Data	No Data
	05/29/1983	7.6	114	100	<10	155	No Data	<22140	No Data	No Data
	07/21/1983	10	129	No Data	<20	184	No Data	<2000	No Data	No Data
	09/19/1983	13	130	100	20	189	No Data	<5000	No Data	No Data
	10/31/1983	11	130	200	<10	220	No Data	<5000	No Data	No Data
	05/21/1984	5.76	77	<100	<50	110	No Data	<2000	No Data	No Data
	07/23/1984	8.2	126	<500	<50	198	No Data	<100	No Data	No Data
	10/14/1985	7	111	60	<10	152	No Data	<1000	No Data	No Data
	06/02/1986	6.0	89.	12	<50	122.	No Data	4000	No Data	No Data
	10/20/1986	7.7	121.	No Data	<50	158.	No Data	No Data	No Data	No Data
	05/18/1987	3.60	67.9	<25	<50	90.	No Data	22000	No Data	No Data
	10/13/1987	No Data	No Data	No Data	<50	No Data	No Data	6500	No Data	No Data
	04/14/1988	No Data	No Data	No Data	<50	No Data	No Data	90900	No Data	No Data
	10/17/1988	No Data	No Data	No Data	<50	No Data	No Data	27000	No Data	No Data
	05/10/1989	No Data	No Data	No Data	<10	No Data	No Data	1030	No Data	No Data
	10/18/1989	No Data	No Data	No Data	<10	No Data	No Data	1850	No Data	No Data
	04/11/1990	No Data	No Data	No Data	<10	No Data	No Data	9420	No Data	No Data
	10/17/1990	No Data	No Data	No Data	<10	No Data	No Data	3380	No Data	No Data
	06/24/1991	No Data	No Data	No Data	<10	No Data	280	390	No Data	No Data
	06/24/1991	No Data	No Data	No Data	<10	No Data	270	440	No Data	No Data
	10/20/1991	No Data	No Data	No Data	<18.00	No Data	No Data	80	No Data	No Data
	10/20/1991	No Data	No Data	No Data	<18.00	No Data	No Data	40	No Data	No Data
	04/14/1992	No Data	No Data	No Data	<21.0	No Data	No Data	~390	No Data	No Data
82-31B-W	08/11/1982	7	24	650	<50	310	No Data	No Data	<1000	No Data

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	Pb210 (pCi/L)	pH	PO_4 (mg/L)	Ra226 (pCi/L)	Ra228 (pCi/L)	Se (μg/L)	Si (mg/L)	SO_4 (mg/L)	Total Coliform (colonies/100 mL)
82-30C	07/24/1984	No Data	7.2	No Data	<2.0	No Data	100	7	504	No Data
	09/24/1984	<1.5	7.2	No Data	<2	No Data	140	8	450	No Data
	09/25/1984	<1.5	7.2	No Data	<2	No Data	140	8	430	No Data
	10/29/1984	<1.5	7.6	No Data	<2	No Data	83	8.5	450	No Data
	10/30/1984	<1.5	7.6	No Data	<2	No Data	73	8.2	470	No Data
	04/09/1985	No Data	6.7	No Data	<1	No Data	70	8.0	493	No Data
	10/14/1985	No Data	7.1	<0.1	<1.0	No Data	150	8.0	447	No Data
	06/02/1986	No Data	7.1	No Data	.7	No Data	87	11.	446.	No Data
	10/20/1986	No Data	No Data	No Data	0.7	No Data	71	No Data	454.	No Data
	06/24/1991	No Data	6.87	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/20/1991	No Data	7.06	No Data	No Data	No Data	No Data	No Data	No Data	No Data
82-31B-E	08/11/1982	No Data	6.4	No Data	No Data	No Data	<10	6.8	1250	No Data
	09/22/1982	No Data	6.7	No Data	<2	No Data	<10	6.83	1787	No Data
	10/19/1982	No Data	6.8	No Data	<2	No Data	<10	6.4	2160	No Data
	11/16/1982	No Data	6.8	No Data	<2	No Data	<20	7.45	1856	No Data
	04/30/1983	No Data	6.9	<.153	No Data	No Data	<10	7.2	1100	No Data
	05/29/1983	No Data	6.9	<0.050	No Data	No Data	<10	6.4	1500	No Data
	07/21/1983	No Data	6.6	No Data	No Data	No Data	<10	6.6	1700	No Data
	09/19/1983	No Data	6.9	No Data	<2	No Data	<10	6.6	1900	No Data
	10/31/1983	No Data	7.1	No Data	<2.0	No Data	<10	6.5	1800	No Data
	05/21/1984	No Data	6.8	No Data	No Data	No Data	<10	6.5	1200	No Data
	07/23/1984	No Data	7.1	No Data	No Data	No Data	<10	6	1890	No Data
	10/14/1985	No Data	6.7	<0.1	No Data	No Data	<5	6.6	1920	No Data
	06/02/1986	No Data	7.0	No Data	No Data	No Data	<5	9.1	1450.	No Data
	10/20/1986	No Data	6.35	No Data	No Data	No Data	<5	No Data	1920.	No Data
	05/18/1987	No Data	7.05	No Data	No Data	No Data	6	No Data	1010.	No Data
	10/13/1987	No Data	6.95	No Data	0.2	<1.	<5	No Data	No Data	No Data
	04/14/1988	No Data	6.68	No Data	0.3	<1.5	<5	No Data	No Data	No Data
	10/17/1988	No Data	6.72	No Data	0.2	<1.1	<5	No Data	No Data	No Data
	05/10/1989	No Data	6.75	No Data	0.5	<1.0	<5	No Data	No Data	No Data
	10/18/1989	No Data	6.37	No Data	<0.1	<2.0	<5	No Data	No Data	No Data
	04/11/1990	No Data	6.97	No Data	0.2	<1	<5	No Data	No Data	No Data
	10/17/1990	No Data	6.83	No Data	<1.7	<2	<5	No Data	No Data	No Data
	06/24/1991	No Data	6.82	No Data	0.2	<2	<5	No Data	No Data	No Data
	06/24/1991	No Data	No Data	No Data	0.5	<2	<5	No Data	No Data	No Data
	10/20/1991	No Data	6.72	No Data	0.2	<3	<20.00	No Data	No Data	No Data
	10/20/1991	No Data	No Data	No Data	0.2	<2	<20.00	No Data	No Data	No Data
	04/14/1992	No Data	6.77	No Data	0.2	<2	<2.0	No Data	No Data	No Data
82-31B-W	08/11/1982	No Data	6.7	No Data	No Data	No Data	<10	9.0	329	No Data

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	Temp (deg C)	Th230 (pCi/L)	TOC[b] (mg/L)	U (µg/L)	U234 (pCi/L)	U238 (pCi/L)	V (µg/L)	Zn (µg/L)
82-30C	07/24/1984	13	No Data	No Data	533	No Data	No Data	3970	150
	09/24/1984	11	<1	No Data	400	No Data	No Data	4210	100
	09/25/1984	11	<1	No Data	300	No Data	No Data	4110	80
	10/29/1984	12	<1	No Data	300	No Data	No Data	440	250
	10/30/1984	12	<1	No Data	400	No Data	No Data	4370	280
	04/09/1985	10.5	No Data	No Data	400	No Data	No Data	3600	<50
	10/14/1985	12	No Data	No Data	400	No Data	No Data	4700	<5
	06/02/1986	13.5	No Data	No Data	400	No Data	No Data	3800	<10
	10/20/1986	No Data	No Data	No Data	300	No Data	No Data	4250	No Data
	06/24/1991	10.5	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/20/1991	10.8	No Data	No Data	No Data	No Data	No Data	No Data	No Data
82-31B-E	08/11/1982	15	No Data	No Data	8	No Data	No Data	<50	<50
	09/22/1982	13	No Data	No Data	37	No Data	No Data	<50	50
	10/19/1982	13	No Data	No Data	39	No Data	No Data	<50	70
	11/16/1982	9.5	No Data	No Data	50	No Data	No Data	<50	<50
	04/30/1983	9	No Data	No Data	10	No Data	No Data	<50	40
	05/29/1983	12	No Data	No Data	45	No Data	No Data	<10	<50
	07/21/1983	14	No Data	No Data	24	No Data	No Data	<10	<50
	09/19/1983	13	No Data	No Data	35	No Data	No Data	<10	<20
	10/31/1983	14	No Data	No Data	28	No Data	No Data	<10	50
	05/21/1984	10.5	No Data	No Data	41	No Data	No Data	<50	130
	07/23/1984	14	No Data	No Data	36	No Data	No Data	<50	570
	10/14/1985	12	No Data	No Data	22	No Data	No Data	10	<5
	06/02/1986	13.	No Data	No Data	19	No Data	No Data	<50	<10
	10/20/1986	12.	No Data	No Data	24	No Data	No Data	<50	No Data
	05/18/1987	10.5	No Data	No Data	19	No Data	No Data	<50	No Data
	10/13/1987	12.5	No Data	No Data	24	No Data	No Data	<50	No Data
	04/14/1988	8.5	No Data	No Data	22	No Data	No Data	<50	No Data
	10/17/1988	11.8	No Data	No Data	22	No Data	No Data	<50	No Data
	05/10/1989	10.9	No Data	No Data	36	No Data	No Data	<50	No Data
	10/18/1989	11.9	No Data	No Data	29	No Data	No Data	<50	No Data
	04/11/1990	8.9	No Data	No Data	21	No Data	No Data	<50	No Data
	10/17/1990	13.0	No Data	No Data	No Data	25.1	8.3	<50	No Data
	06/24/1991	7.8	No Data	No Data	No Data	16.8	6.2	<50	No Data
	06/24/1991	No Data	No Data	No Data	No Data	18.4	6.0	<50	No Data
	10/20/1991	12.8	<0.2	No Data	No Data	24.4	8.0	<10.00	No Data
	10/20/1991	No Data	<0.3	No Data	No Data	23.1	7.6	<10.00	No Data
	04/14/1992	9.3	<0.10	No Data	No Data	15.9	5.8	<7.0	No Data
82-31B-W	08/11/1982	16.5	No Data	No Data	10	No Data	No Data	<50	50

[a] A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.
[b] Total organic carbon.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	^3H[b] (TU)	Ag (µg/L)	Al (µg/L)	Alkalinity (ppm)	Alpha (pCi/L)	As (µg/L)	Ba (µg/L)	Beta (pCi/L)	Ca (mg/L)
82-31B-W	09/22/1982	No Data	No Data	<10	315	No Data	<10	46	No Data	156
	10/19/1982	No Data	No Data	<100	435	No Data	<10	<100	No Data	147
	11/16/1982	No Data	No Data	<20	375	No Data	<20	100	No Data	162
	04/30/1983	No Data	No Data	<10	344	No Data	<10	100	No Data	200
	05/29/1983	No Data	No Data	20	380	No Data	<10	90	No Data	255
	07/21/1983	No Data	No Data	30	384	No Data	10	60	No Data	330
	09/19/1983	No Data	No Data	<100	440	No Data	<10	<50	No Data	460
	10/31/1983	No Data	No Data	<10	470	No Data	<10	<50	No Data	430
	05/21/1984	No Data	No Data	No Data	336	No Data	<10	<100	No Data	157
	07/23/1984	No Data	No Data	No Data	415	No Data	<10	<100	No Data	550
	10/14/1985	No Data	No Data	No Data	343	No Data	<10	<100	No Data	518
	06/02/1986	No Data	No Data	No Data	399	No Data	5	150	No Data	272.
	10/20/1986	No Data	No Data	No Data	267	No Data	<5	No Data	No Data	440.
82-36A	08/11/1982	No Data	No Data	<100	505	No Data	47	<100	No Data	498
	09/22/1982	No Data	No Data	30	565	No Data	<10	58	No Data	410
	10/19/1982	No Data	No Data	<100	545	No Data	41	<100	No Data	284
	11/16/1982	No Data	No Data	<20	535	No Data	<20	<50	No Data	437
	04/30/1983	No Data	No Data	<10	624	No Data	<10	<100	No Data	400
	05/29/1983	No Data	No Data	30	800	No Data	<10	40	No Data	440
	07/21/1983	No Data	No Data	80	590	No Data	<10	80	No Data	479
	09/19/1983	No Data	No Data	<100	800	No Data	<10	<50	No Data	430
	10/31/1983	No Data	No Data	10	634	No Data	<10	<50	No Data	430
	03/19/1984	No Data	No Data	130	635	No Data	<10	<100	No Data	439
	04/18/1984	No Data	No Data	<100	638	No Data	<10	<100	No Data	450
	05/21/1984	No Data	No Data	No Data	617	No Data	67	<100	No Data	457
	07/23/1984	No Data	No Data	No Data	602	No Data	<10	<100	No Data	430
	09/24/1984	No Data	No Data	No Data	629	No Data	<10	<100	No Data	511
	10/29/1984	No Data	<10	No Data	428	1100	<10	<100	390	351
	04/09/1985	No Data	<10	No Data	636	5530	20	<100	4230	425
	06/10/1985	No Data	<10	No Data	660	7280	<10	<100	3780	336
	10/14/1985	No Data	<10	No Data	674	3510	<10	<100	1900	446
	06/02/1986	No Data	<25	No Data	No Data	No Data	<5	<100	No Data	No Data
	10/20/1986	No Data	No Data	No Data	No Data	No Data	11	No Data	No Data	277.
	05/18/1987	No Data	No Data	No Data	684	No Data	6	No Data	No Data	476.
	10/13/1987	No Data	No Data	No Data	720	5892.	<5	No Data	No Data	No Data
	04/14/1988	No Data	No Data	No Data	760	2919	<5	No Data	575	No Data
	10/17/1988	No Data	No Data	No Data	749	1801	9	No Data	627	No Data
	05/11/1989	No Data	No Data	No Data	699	6127	<10	No Data	2695	No Data
	10/19/1989	No Data	No Data	No Data	599	3130	<10	No Data	1962	No Data

[a] A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.
[b] Tritium in tritium units.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	Cd (µg/L)	Conductivity (µmhos/cm)	Cl (mg/L)	Cr (µg/L)	DO (mg/L)	Eh (mV)	F (mg/L)	Fe (µg/L)	Hg (µg/L)
82-31B-W	09/22/1982	No Data	1050	9	No Data	No Data	60	No Data	450	No Data
	10/19/1982	No Data	900	10	No Data	No Data	50	No Data	50	No Data
	11/16/1982	No Data	780	10	No Data	No Data	200	No Data	<50	No Data
	04/30/1983	No Data	1360	54	No Data	2.8	190	No Data	<200	No Data
	05/29/1983	No Data	1449	78	No Data	No Data	No Data	No Data	50	No Data
	07/21/1983	No Data	1800	44	No Data	No Data	65	No Data	50	No Data
	09/19/1983	No Data	2100	54	No Data	No Data	30	No Data	500	No Data
	10/31/1983	No Data	2300	43	No Data	No Data	-70	No Data	800	No Data
	05/21/1984	No Data	1032	14	No Data	3.5	No Data	No Data	200	No Data
	07/23/1984	No Data	2540	41	No Data	No Data	110	No Data	<500	No Data
	10/14/1985	No Data	2244	33.3	No Data	No Data	120	No Data	260	No Data
	06/02/1986	No Data	1625.	45.2	No Data	No Data	-30.	No Data	730	No Data
	10/20/1986	No Data	1500.	33.0	No Data	No Data	50.	No Data	No Data	No Data
82-36A	08/11/1982	No Data	6000	231	No Data	No Data	-100	2	1250	No Data
	09/22/1982	No Data	6000	203	No Data	No Data	-20	No Data	800	No Data
	10/19/1982	No Data	6000	258	No Data	No Data	-130	No Data	6000	No Data
	11/16/1982	No Data	5000	240	No Data	No Data	-50	No Data	5340	No Data
	04/30/1983	No Data	5460	180	No Data	1.1	120	No Data	210	No Data
	05/29/1983	No Data	5250	120	No Data	No Data	No Data	No Data	2300	No Data
	07/21/1983	No Data	5120	160	No Data	No Data	No Data	No Data	310	No Data
	09/19/1983	No Data	5000	140	No Data	No Data	160	No Data	100	No Data
	10/31/1983	No Data	5900	150	No Data	No Data	10	No Data	900	No Data
	03/19/1984	No Data	5897	120	No Data	No Data	220	No Data	100	No Data
	04/18/1984	No Data	6175	110	No Data	No Data	215	No Data	100	No Data
	05/21/1984	No Data	6262	110	No Data	No Data	210	No Data	<100	No Data
	07/23/1984	No Data	6710	124	No Data	No Data	210	No Data	<500	No Data
	09/24/1984	No Data	5786	120	No Data	No Data	185	No Data	<500	No Data
	10/29/1984	<2	3564	150	20	No Data	-40	1.01	2080	<1
	04/09/1985	2	5214	97.9	20	No Data	No Data	1.0	500	.8
	06/10/1985	3	5655	109	17	No Data	230	0.9	<100	<.2
	10/14/1985	5	7155	91.8	<10	No Data	170	0.89	<30	<.2
	06/02/1986	<5	No Data	104.	<30	No Data	No Data	1.0	140	<1
	10/20/1986	No Data	No Data	139.	No Data	No Data	150.	No Data	<100	No Data
	05/18/1987	No Data	6831.	90.9	No Data	No Data	190.	No Data	<100	No Data
	10/13/1987	No Data	8410.	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/14/1988	No Data	679	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/17/1988	No Data	7390	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	05/11/1989	No Data	7200	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/19/1989	No Data	2200	No Data	No Data	No Data	No Data	No Data	No Data	No Data

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "-" indicates an estimated value.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	K (mg/L)	Mg (mg/L)	Mn (µg/L)	Mo (µg/L)	Na (mg/L)	NH_4-N (µg/L)	NO_3 (µg/L)	NO_3-N (µg/L)	Pb (µg/L)
82-31B-W	09/22/1982	7	22	200	<50	131	No Data	<4428	No Data	No Data
	10/19/1982	3	28	<50	<50	54	No Data	<8856	No Data	No Data
	11/16/1982	8.1	25.7	100	<100	49	No Data	No Data	<1000	No Data
	04/30/1983	6.3	38	<200	<10	60	No Data	No Data	No Data	No Data
	05/29/1983	4.6	45	50	<10	79	No Data	22140	No Data	No Data
	07/21/1983	8.3	66.3	150000	<20	110	No Data	<2000	No Data	No Data
	09/19/1983	10	100	400	<20	148	No Data	<5000	No Data	No Data
	10/31/1983	9.7	100	400	<10	170	No Data	<5000	No Data	No Data
	05/21/1984	1.93	23	<100	179	44	No Data	<2000	No Data	No Data
	07/23/1984	8.1	112	<500	<50	158	No Data	<100	No Data	No Data
	10/14/1985	8	90.2	260	<10	113	No Data	<1000	No Data	No Data
	06/02/1986	5.2	41.	140	<50	62.	No Data	6000	No Data	No Data
	10/20/1986	8.6	93.	No Data	<50	124.	No Data	No Data	No Data	No Data
82-36A	08/11/1982	55	188	10130	640	1210	No Data	No Data	3000	No Data
	09/22/1982	51	167	9600	910	1210	No Data	<4428	No Data	No Data
	10/19/1982	59	110	9790	1280	1275	No Data	<8856	No Data	No Data
	11/16/1982	58.	186	12980	800	1248	No Data	No Data	<1000	No Data
	04/30/1983	61	190	1500	700	1300	No Data	No Data	No Data	No Data
	05/29/1983	64	188	14000	860	1100	No Data	<22140	No Data	No Data
	07/21/1983	82	203	8770000	690	1318	No Data	2000	No Data	No Data
	09/19/1983	70	172	14000	950	1300	No Data	10000	No Data	No Data
	10/31/1983	75	170	14000	710	1400	No Data	6000	No Data	No Data
	03/19/1984	64	194	6700	1320	1190	No Data	No Data	17000	No Data
	04/18/1984	59	140	21000	1000	990	No Data	79704	No Data	No Data
	05/21/1984	65.9	170	6000	991	1120	No Data	68000	No Data	No Data
	07/23/1984	62.0	180	16000	1100	1180	No Data	8900	No Data	No Data
	09/24/1984	66.3	201	13600	1180	1160	No Data	78000	No Data	No Data
	10/29/1984	52.0	111	9690	630	831	No Data	14000	No Data	<10
	04/09/1985	70.8	183	15300	1340	1260	No Data	160000	No Data	<10
	06/10/1985	69.6	176	15000	1300	1120	No Data	83000	No Data	<10
	10/14/1985	53	170	15600	1440	1270	No Data	71000	No Data	<10
	06/02/1986	No Data	No Data	13000	No Data	1160.	No Data	100516	No Data	<25
	10/20/1986	44.	98.	10400	787	744.	No Data	34981.2	No Data	No Data
	05/18/1987	64.8	189.	12300	1240	1300.	No Data	129000	No Data	No Data
	10/13/1987	No Data	No Data	No Data	1230	No Data	No Data	117000	No Data	No Data
	04/14/1988	No Data	No Data	No Data	1230	No Data	No Data	101000	No Data	No Data
	10/17/1988	No Data	No Data	No Data	890	No Data	No Data	74900	No Data	No Data
	05/11/1989	No Data	No Data	No Data	1340	No Data	No Data	93300	No Data	No Data
	10/19/1989	No Data	No Data	No Data	795	No Data	No Data	68300	No Data	No Data

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "-" indicates an estimated value.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	Pb210 (pCi/L)	pH	PO_4 (mg/L)	Ra226 (pCi/L)	Ra228 (pCi/L)	Se (μg/L)	Si (mg/L)	SO_4 (mg/L)	Total Coliform (colonies/100 mL)
82-31B-W	09/22/1982	No Data	7.0	No Data	<2	No Data	<10	10.5	240	No Data
	10/19/1982	No Data	6.9	No Data	<2	No Data	<10	8.1	320	No Data
	11/16/1982	No Data	7.3	No Data	<2	No Data	<20	8.95	261	No Data
	04/30/1983	No Data	7.0	<.153	No Data	No Data	<10	7.7	430	No Data
	05/29/1983	No Data	7.0	<0.050	No Data	No Data	<10	9.1	540	No Data
	07/21/1983	No Data	6.9	No Data	No Data	No Data	<10	11.3	720	No Data
	09/19/1983	No Data	7.1	No Data	<2	No Data	<10	9.8	1400	No Data
	10/31/1983	No Data	7.0	No Data	<2.0	No Data	<10	9.2	1400	No Data
	05/21/1984	No Data	7.0	No Data	No Data	No Data	<10	8.5	220	No Data
	07/23/1984	No Data	7.0	No Data	No Data	No Data	<10	9	1620	No Data
	10/14/1985	No Data	6.9	<0.1	No Data	No Data	<5	8.0	1620	No Data
	06/02/1986	No Data	7.1	No Data	No Data	No Data	8	9.1	501.	No Data
	10/20/1986	No Data	6.4	No Data	No Data	No Data	<5	No Data	1380.	No Data
82-36A	08/11/1982	No Data	7.2	No Data	No Data	No Data	55	4.2	4880	No Data
	09/22/1982	No Data	6.9	No Data	14	No Data	<10	4.09	3772	No Data
	10/19/1982	No Data	7.4	No Data	13	No Data	<10	4.6	5120	No Data
	11/16/1982	No Data	7.4	No Data	17	No Data	<20	4.79	3614	No Data
	04/30/1983	No Data	7.3	<.153	18.0	No Data	<10	4.3	4100	No Data
	05/29/1983	No Data	7.3	<0.050	No Data	No Data	<10	5.2	3700	No Data
	07/21/1983	No Data	7.1	No Data	25	No Data	<10	4.7	3800	No Data
	09/19/1983	No Data	7.1	No Data	24	No Data	<10	4.8	3700	No Data
	10/31/1983	No Data	7.3	No Data	No Data	No Data	<10	4.3	3600	No Data
	03/19/1984	No Data	7.2	No Data	No Data	No Data	<10	5.18	3900	No Data
	04/18/1984	No Data	7	No Data	29	No Data	<10	4.53	3400	No Data
	05/21/1984	14	6.9	No Data	38	No Data	<10	5.3	3700	No Data
	07/23/1984	No Data	7.0	No Data	35	No Data	<10	4	3750	No Data
	09/24/1984	18.5	6.9	No Data	13	No Data	<10	5	3600	No Data
	10/29/1984	No Data	7.5	No Data	17	No Data	<10	8.2	2600	<1
	04/09/1985	No Data	6.9	No Data	20	No Data	<5	7.3	3780	<1
	06/10/1985	No Data	6.95	No Data	44	No Data	<10	5.9	3450	<1
	10/14/1985	No Data	6.8	<0.1	19.5	No Data	<5	5.6	3570	<1
	06/02/1986	No Data	No Data	No Data	22.9	No Data	<5	No Data	3410.	No Data
	10/20/1986	No Data	No Data	No Data	14.5	No Data	<5	No Data	1870.	No Data
	05/18/1987	No Data	6.9	No Data	No Data	No Data	<5	No Data	3580.	No Data
	10/13/1987	No Data	6.9	No Data	18.6	<1.	<5	No Data	No Data	No Data
	04/14/1988	No Data	6.97	No Data	19.4	<2.8	<5	No Data	No Data	No Data
	10/17/1988	No Data	7.00	No Data	9.8	<2.9	<5	No Data	No Data	No Data
	05/11/1989	No Data	6.95	No Data	16.7	<6.0	<5	No Data	No Data	No Data
	10/19/1989	No Data	6.86	No Data	14.0	<4.0	<5	No Data	No Data	No Data

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "-" indicates an estimated value.

Momticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	Temp (deg C)	Th230 (pCi/L)	TOC[b] (mg/L)	U (μg/L)	U234 (pCi/L)	U238 (pCi/L)	V (μg/L)	Zn (μg/L)
82-31B-W	09/22/1982	14	No Data	No Data	13	No Data	No Data	<50	50
	10/19/1982	13	No Data	No Data	18	No Data	No Data	<50	<50
	11/16/1982	9	No Data	No Data	69	No Data	No Data	<50	<50
	04/30/1983	7	No Data	No Data	95	No Data	No Data	<50	30
	05/29/1983	12	No Data	No Data	25	No Data	No Data	<10	<50
	07/21/1983	19	No Data	No Data	<30	No Data	No Data	<10	<50
	09/19/1983	15	No Data	No Data	35	No Data	No Data	<10	20
	10/31/1983	13	No Data	No Data	28	No Data	No Data	<10	100
	05/21/1984	11.5	No Data	No Data	18	No Data	No Data	<50	90
	07/23/1984	11.5	No Data	No Data	34	No Data	No Data	<50	1170
	10/14/1985	12	No Data	No Data	73	No Data	No Data	<10	8
	06/02/1986	16.5	No Data	No Data	44	No Data	No Data	<50	<10
	10/20/1986	13.	No Data	No Data	57	No Data	No Data	<50	No Data
82-36A	08/11/1982	15.5	No Data	No Data	4000	No Data	No Data	<50	130
	09/22/1982	14	No Data	No Data	3000	No Data	No Data	<50	150
	10/19/1982	10	No Data	No Data	3400	No Data	No Data	<50	<50
	11/16/1982	10	No Data	No Data	1300	No Data	No Data	<50	50
	04/30/1983	10	No Data	No Data	3300	No Data	No Data	<50	80
	05/29/1983	11	No Data	No Data	4000	No Data	No Data	<10	<50
	07/21/1983	11	No Data	No Data	4000	No Data	No Data	<10	50
	09/19/1983	12	No Data	No Data	6400	No Data	No Data	<10	60
	10/31/1983	11	No Data	No Data	5400	No Data	No Data	20	100
	03/19/1984	12	No Data	No Data	11000	No Data	No Data	<50	100
	04/18/1984	10	No Data	No Data	7000	No Data	No Data	<50	130
	05/21/1984	13	<1	No Data	9200	No Data	No Data	<50	100
	07/23/1984	14	No Data	No Data	9000	No Data	No Data	<50	70
	09/24/1984	11	<1	No Data	7300	No Data	No Data	<50	220
	10/29/1984	9	No Data	5.1	3000	No Data	No Data	140	1220
	04/09/1985	12	No Data	No Data	10700	No Data	No Data	<50	80
	06/10/1985	12	No Data	No Data	10100	No Data	No Data	<50	50
	10/14/1985	11	No Data	No Data	12800	No Data	No Data	<10	76
	06/02/1986	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/20/1986	No Data	No Data	No Data	4400	No Data	No Data	525	No Data
	05/18/1987	12.5	No Data	No Data	12400	No Data	No Data	<50	No Data
	10/13/1987	10.	No Data	No Data	10900	No Data	No Data	<50	No Data
	04/14/1988	10.7	No Data	No Data	9690	No Data	No Data	<50	No Data
	10/17/1988	10.1	No Data	No Data	830	No Data	No Data	340	No Data
	05/11/1989	11.7	No Data	No Data	5400	No Data	No Data	130	No Data
	10/19/1989	7.7	No Data	No Data	4870	No Data	No Data	272	No Data

[a] A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.
[b] Total organic carbon.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	^3H[b] (TU)	Ag (μg/L)	Al (μg/L)	Alkalinity (ppm)	Alpha (pCi/L)	As (μg/L)	Ba (μg/L)	Beta (pCi/L)	Ca (mg/L)
82-36A	04/12/1990	No Data	No Data	No Data	570	3400	<10	No Data	701	No Data
	10/18/1990	No Data	No Data	No Data	522	2547	<10	No Data	No Data	No Data
	06/24/1991	No Data	No Data	No Data	533	1738	15	No Data	No Data	No Data
	10/20/1991	No Data	No Data	No Data	533	2500.	-8.80	No Data	No Data	No Data
	04/14/1992	No Data	No Data	No Data	524	1700	-5.1	No Data	No Data	No Data
82-39	08/11/1982	No Data	No Data	190	591	No Data	<10	<100	No Data	114
	07/21/1983	No Data	No Data	20	550	No Data	<10	60	No Data	132
	09/19/1983	No Data	No Data	<100	645	No Data	<10	60	No Data	190
	10/31/1983	No Data	No Data	<10	535	No Data	10	<50	No Data	200
	05/21/1984	No Data	No Data	No Data	580	No Data	<10	<100	No Data	177
	10/14/1985	No Data	No Data	No Data	533	No Data	30	<100	No Data	173
	10/14/1985	No Data	No Data	No Data	533	No Data	33	<100	No Data	178
	06/02/1986	No Data	No Data	No Data	440	No Data	<5	<100	No Data	184.
	10/20/1986	No Data	No Data	No Data	509	No Data	6	No Data	No Data	154.
82-40A	08/11/1982	No Data	No Data	<100	460	No Data	63	<100	No Data	86
	09/22/1982	No Data	No Data	<10	375	No Data	84	41	No Data	91
	10/19/1982	No Data	No Data	<100	425	No Data	48	<100	No Data	68
	11/16/1982	No Data	No Data	<20	450	No Data	78	<50	No Data	86
	04/30/1983	No Data	No Data	<10	416	No Data	60	<100	No Data	100
	05/29/1983	No Data	No Data	<10	422	No Data	50	40	No Data	117
	07/21/1983	No Data	No Data	<10	426	No Data	60	40	No Data	126
	09/19/1983	No Data	No Data	<100	450	No Data	60	<50	No Data	110
	10/31/1983	No Data	No Data	<10	423	No Data	60	<50	No Data	110
	05/21/1984	No Data	No Data	No Data	407	No Data	44	<100	No Data	95.4
	07/23/1984	No Data	No Data	No Data	406	No Data	60	<100	No Data	92
	09/24/1984	No Data	No Data	No Data	417	No Data	60	<100	No Data	137
	10/29/1984	No Data	<10	No Data	423	340	86	<100	140	128
	04/09/1985	No Data	<10	No Data	416	440	80	<100	400	80.7
	06/10/1985	No Data	<10	No Data	398	840	50	<100	469	90.8
	10/14/1985	No Data	<10	No Data	454	950	72	<100	574	135
	06/02/1986	No Data	<25	No Data	No Data	No Data	59	<100	No Data	No Data
	10/20/1986	No Data	No Data	No Data	No Data	No Data	57	No Data	No Data	140.
	05/18/1987	No Data	No Data	No Data	428	No Data	45	No Data	No Data	126.
	10/13/1987	No Data	No Data	No Data	432	905.	65	No Data	No Data	No Data
	04/14/1988	No Data	No Data	No Data	405	486	41	No Data	155	No Data
	10/17/1988	No Data	No Data	No Data	403	493	58	No Data	183	No Data
	05/10/1989	No Data	No Data	No Data	362	623	49	No Data	265	No Data
	10/18/1989	No Data	No Data	No Data	408	905	50	No Data	366	No Data
	04/11/1990	No Data	No Data	No Data	386	688	44	No Data	200	No Data

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[b] Tritium in tritium units.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	Cd (μg/L)	Conductivity (μmhos/cm)	Cl (mg/L)	Cr (μg/L)	DO (mg/L)	Eh (mV)	F (mg/L)	Fe (μg/L)	Hg (μg/L)
82-36A	04/12/1990	No Data	4670	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/18/1990	No Data	6930	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	06/24/1991	No Data	6550	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/20/1991	No Data	3790	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/14/1992	No Data	3760	No Data	No Data	No Data	No Data	No Data	No Data	No Data
82-39	08/11/1982	No Data	2950	122	No Data	No Data	-30	1	130	No Data
	07/21/1983	No Data	2080	90	No Data	No Data	No Data	No Data	230	No Data
	09/19/1983	No Data	2100	72	No Data	No Data	-100	No Data	900	No Data
	10/31/1983	No Data	2400	93	No Data	No Data	160	No Data	<100	No Data
	05/21/1984	No Data	2666	84	No Data	No Data	150	No Data	400	No Data
	10/14/1985	No Data	2376	61.0	No Data	No Data	175	No Data	<30	No Data
	10/14/1985	No Data	2376	57.3	No Data	No Data	175	No Data	<30	No Data
	06/02/1986	No Data	1794.	58.5	No Data	No Data	150.	No Data	250	No Data
	10/20/1986	No Data	1500.	57.7	No Data	No Data	165.	No Data	No Data	No Data
82-40A	08/11/1982	No Data	1850	133	No Data	No Data	-50	1	220	No Data
	09/22/1982	No Data	1750	115	No Data	No Data	100	No Data	280	No Data
	10/19/1982	No Data	1600	160	No Data	No Data	-60	No Data	250	No Data
	11/16/1982	No Data	1510	134	No Data	No Data	190	No Data	230	No Data
	04/30/1983	No Data	1900	130	No Data	1.7	20	No Data	320	No Data
	05/29/1983	No Data	1960	120	No Data	No Data	No Data	No Data	400	No Data
	07/21/1983	No Data	1950	140	No Data	No Data	170	No Data	340	No Data
	09/19/1983	No Data	1800	130	No Data	No Data	50	No Data	400	No Data
	10/31/1983	No Data	2100	130	No Data	No Data	100	No Data	200	No Data
	05/21/1984	No Data	2016	110	No Data	1.4	-215	No Data	300	No Data
	07/23/1984	No Data	2040	97	No Data	1.6	20	No Data	<500	No Data
	09/24/1984	No Data	2064	120	No Data	0.6	-65	No Data	500	No Data
	10/29/1984	<2	1920	130	<10	No Data	130	1.07	800	<1
	04/09/1985	<1	1755	89	<10	No Data	No Data	1.1	300	<.2
	06/10/1985	<1	1885	97.9	<10	No Data	40	1.1	100	<.2
	10/14/1985	<1	2210	116	<10	No Data	-170	1.05	460	<.2
	06/02/1986	<5	No Data	90.3	30	No Data	No Data	1.2	220	<1
	10/20/1986	No Data	No Data	101.	No Data	No Data	120.	No Data	420	No Data
	05/18/1987	No Data	1751.	74.2	No Data	No Data	110.	No Data	250	No Data
	10/13/1987	No Data	2170.	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/14/1988	No Data	1707	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/17/1988	No Data	2030	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	05/10/1989	No Data	2150	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/18/1989	No Data	1950	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/11/1990	No Data	2490	No Data	No Data	No Data	No Data	No Data	No Data	No Data

[a] A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	K (mg/L)	Mg (mg/L)	Mn (µg/L)	Mo (µg/L)	Na (mg/L)	NH_4-N (µg/L)	NO_3 (µg/L)	NO_3-N (µg/L)	Pb (µg/L)
82-36A	04/12/1990	No Data	No Data	No Data	800	No Data	No Data	32600	No Data	No Data
	10/18/1990	No Data	No Data	No Data	578	No Data	No Data	33000	No Data	No Data
	06/24/1991	No Data	No Data	No Data	569	No Data	13800	28100	No Data	No Data
	10/20/1991	No Data	No Data	No Data	593.00	No Data	No Data	29000	No Data	No Data
	04/14/1992	No Data	No Data	No Data	686	No Data	No Data	22400	No Data	No Data
82-39	08/11/1982	18	28	2650	190	767	No Data	No Data	2000	No Data
	07/21/1983	27	34.6	3020000	260	484	No Data	<2000	No Data	No Data
	09/19/1983	28	48	4400	210	427	No Data	<5000	No Data	No Data
	10/31/1983	23	47	4600	220	420	No Data	<5000	No Data	No Data
	05/21/1984	20.8	43	3000	192	420	No Data	<2000	No Data	No Data
	10/14/1985	17	43.6	3600	210	302	No Data	4000	No Data	No Data
	10/14/1985	18	44.2	3140	160	310	No Data	4000	No Data	No Data
	06/02/1986	21.	41.	4200	150	377.	No Data	<1000	No Data	No Data
	10/20/1986	23.	40.	No Data	144	296.	No Data	No Data	No Data	No Data
82-40A	08/11/1982	52	20	2530	210	370	No Data	No Data	<1000	No Data
	09/22/1982	51	23	2700	350	420	No Data	<4428	No Data	No Data
	10/19/1982	54	20	2280	440	368	No Data	<8856	No Data	No Data
	11/16/1982	54.	22.1	2560	500	406	No Data	No Data	<1000	No Data
	04/30/1983	53	27	2500	370	390	No Data	No Data	No Data	No Data
	05/29/1983	54	28	3100	360	405	No Data	<22140	No Data	No Data
	07/21/1983	69	30	2955000	360	424	No Data	<2000	No Data	No Data
	09/19/1983	60	28	3300	370	384	No Data	<5000	No Data	No Data
	10/31/1983	64	26	3500	360	420	No Data	<5000	No Data	No Data
	05/21/1984	48.0	22	2100	335	321	No Data	<2000	No Data	No Data
	07/23/1984	46	23	2500	320	295	No Data	<100	No Data	No Data
	09/24/1984	58.6	32.9	3600	320	390	No Data	<5000	No Data	No Data
	10/29/1984	52.6	34.0	4200	350	420	No Data	<5000	No Data	<10
	04/09/1985	48.0	22.3	2440	400	328	No Data	<1000	No Data	<10
	06/10/1985	49.0	24.4	2800	320	326	No Data	<1000	No Data	<10
	10/14/1985	43	33.0	3790	310	364	No Data	<1000	No Data	<10
	06/02/1986	No Data	No Data	3040	No Data	274.	No Data	<886	No Data	<25
	10/20/1986	46.	30.	3730	350	334.	No Data	1328.4	No Data	No Data
	05/18/1987	41.6	26.3	3080	280	270.	No Data	<500	No Data	No Data
	10/13/1987	No Data	No Data	No Data	300	No Data	No Data	<1000	No Data	No Data
	04/14/1988	No Data	No Data	No Data	225	No Data	No Data	<200	No Data	No Data
	10/17/1988	No Data	No Data	No Data	200	No Data	No Data	200	No Data	No Data
	05/10/1989	No Data	No Data	No Data	222	No Data	No Data	260	No Data	No Data
	10/18/1989	No Data	No Data	No Data	182	No Data	No Data	<40	No Data	No Data
	04/11/1990	No Data	No Data	No Data	200	No Data	No Data	200	No Data	No Data

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	Pb210 (pCi/L)	pH	PO_4 (mg/L)	Ra226 (pCi/L)	Ra228 (pCi/L)	Se (μg/L)	Si (mg/L)	SO_4 (mg/L)	Total Coliform (colonies/100 mL)
82-36A	04/12/1990	No Data	7.03	No Data	5.8	<2	<5	No Data	No Data	No Data
	10/18/1990	No Data	6.65	No Data	5.6	<6	<5	No Data	No Data	No Data
	06/24/1991	No Data	7.16	No Data	7.6	<3	11	No Data	No Data	No Data
	10/20/1991	No Data	6.82	No Data	9.4	<6	<20.00	No Data	No Data	No Data
	04/14/1992	No Data	6.88	No Data	8.9	<4	6.5	No Data	No Data	No Data
82-39	08/11/1982	No Data	7.6	No Data	No Data	No Data	<10	6.1	1311	No Data
	07/21/1983	No Data	7.2	No Data	2.3	No Data	<10	7.0	780	No Data
	09/19/1983	No Data	7.5	No Data	2	No Data	<10	7.6	740	No Data
	10/31/1983	No Data	7.2	No Data	2.0	No Data	<10	7.7	920	No Data
	05/21/1984	No Data	7.5	No Data	No Data	No Data	<10	6.9	870	No Data
	10/14/1985	No Data	7.0	0.2	No Data	No Data	10	8.3	796	No Data
	10/14/1985	No Data	7.0	0.2	No Data	No Data	6	8.5	744	No Data
	06/02/1986	No Data	7.0	No Data	No Data	No Data	<5	8.7	770.	No Data
	10/20/1986	No Data	8.0	No Data	No Data	No Data	<5	No Data	722.	No Data
82-40A	08/11/1982	No Data	7.1	No Data	19	No Data	13	8.1	621	No Data
	09/22/1982	No Data	7.1	No Data	11	No Data	15	7.72	479	No Data
	10/19/1982	No Data	7.2	No Data	6	No Data	13	7.4	704	No Data
	11/16/1982	No Data	7.3	No Data	7	No Data	<20	8.67	567	No Data
	04/30/1983	No Data	7.3	.199	No Data	No Data	<10	7.8	740	No Data
	05/29/1983	No Data	7.2	<0.050	No Data	No Data	<10	8.3	640	No Data
	07/21/1983	No Data	7.2	No Data	7.6	No Data	<10	7.6	840	No Data
	09/19/1983	No Data	7.4	No Data	6	No Data	<10	8.0	760	No Data
	10/31/1983	No Data	7.4	No Data	7.3	No Data	<10	7.9	670	No Data
	05/21/1984	No Data	7.1	No Data	No Data	No Data	<10	8.3	520	No Data
	07/23/1984	No Data	7.4	No Data	No Data	No Data	<10	7	533	No Data
	09/24/1984	No Data	7.25	No Data	No Data	No Data	<10	8	720	No Data
	10/29/1984	No Data	6.9	No Data	10	No Data	<10	8.6	790	<1
	04/09/1985	No Data	6.9	No Data	5	No Data	<5	8.5	510	<1
	06/10/1985	No Data	7.0	No Data	4.1	No Data	<10	7.8	553	<1
	10/14/1985	No Data	7.1	<0.1	6.9	No Data	<5	8.2	714	<1
	06/02/1986	No Data	No Data	No Data	5.2	No Data	<5	No Data	579.	No Data
	10/20/1986	No Data	No Data	No Data	5.4	No Data	9	No Data	610.	No Data
	05/18/1987	No Data	6.8	No Data	No Data	No Data	<5	No Data	516.	No Data
	10/13/1987	No Data	6.85	No Data	4.0	<1.	6	No Data	No Data	No Data
	04/14/1988	No Data	7.01	No Data	2.8	<1.8	<5	No Data	No Data	No Data
	10/17/1988	No Data	6.96	No Data	3.1	<2.1	<5	No Data	No Data	No Data
	05/10/1989	No Data	6.87	No Data	3.2	<1.0	<5	No Data	No Data	No Data
	10/18/1989	No Data	6.83	No Data	3.3	<2.0	<5	No Data	No Data	No Data
	04/11/1990	No Data	6.86	No Data	3.3	<1	<5	No Data	No Data	No Data

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "-" indicates an estimated value.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	Temp (deg C)	Th230 (pCi/L)	TOC[b] (mg/L)	U (µg/L)	U234 (pCi/L)	U238 (pCi/L)	V (µg/L)	Zn (µg/L)
82-36A	04/12/1990	11.1	No Data	No Data	4400	No Data	No Data	180	No Data
	10/18/1990	10.5	No Data	No Data	No Data	1223	1254	283	No Data
	06/24/1991	9.0	No Data	No Data	No Data	1229	1237	384	No Data
	10/20/1991	12.6	<4.6	No Data	No Data	963	988	479.00	No Data
	04/14/1992	10.7	<1.3	No Data	No Data	565.1	578.7	336	No Data
82-39	08/11/1982	12	No Data	No Data	940	No Data	No Data	<50	580
	07/21/1983	10	No Data	No Data	1000	No Data	No Data	100	50
	09/19/1983	14	No Data	No Data	1200	No Data	No Data	120	20
	10/31/1983	11	No Data	No Data	1200	No Data	No Data	210	100
	05/21/1984	13	No Data	No Data	1100	No Data	No Data	<50	110
	10/14/1985	12	No Data	No Data	800	No Data	No Data	480	10
	10/14/1985	12	No Data	No Data	800	No Data	No Data	480	<5
	06/02/1986	10.	No Data	No Data	800	No Data	No Data	50	16
	10/20/1986	9.	No Data	No Data	900	No Data	No Data	104	No Data
82-40A	08/11/1982	16	No Data	No Data	1000	No Data	No Data	1050	<50
	09/22/1982	15	No Data	No Data	1000	No Data	No Data	1100	<50
	10/19/1982	11	No Data	No Data	1000	No Data	No Data	980	<50
	11/16/1982	8	No Data	No Data	1000	No Data	No Data	1000	<50
	04/30/1983	9	No Data	No Data	900	No Data	No Data	560	<20
	05/29/1983	11	No Data	No Data	940	No Data	No Data	480	<50
	07/21/1983	11	No Data	No Data	1000	No Data	No Data	600	<50
	09/19/1983	13	No Data	No Data	900	No Data	No Data	500	<20
	10/31/1983	10.5	No Data	No Data	1000	No Data	No Data	530	50
	05/21/1984	12	No Data	No Data	800	No Data	No Data	450	50
	07/23/1984	15	No Data	No Data	900	No Data	No Data	370	60
	09/24/1984	10.5	No Data	No Data	1300	No Data	No Data	440	100
	10/29/1984	11	No Data	4.6	1000	No Data	No Data	360	320
	04/09/1985	11	No Data	No Data	1000	No Data	No Data	620	<50
	06/10/1985	12	No Data	No Data	800	No Data	No Data	350	<50
	10/14/1985	12.5	No Data	No Data	1400	No Data	No Data	450	<5
	06/02/1986	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/20/1986	No Data	No Data	No Data	1100	No Data	No Data	449	No Data
	05/18/1987	13.	No Data	No Data	1050	No Data	No Data	540	No Data
	10/13/1987	10.	No Data	No Data	1330	No Data	No Data	530	No Data
	04/14/1988	14.9	No Data	No Data	871	No Data	No Data	523	No Data
	10/17/1988	10.6	No Data	No Data	830	No Data	No Data	500	No Data
	05/10/1989	10.9	No Data	No Data	750	No Data	No Data	500	No Data
	10/18/1989	10.4	No Data	No Data	871	No Data	No Data	467	No Data
	04/11/1990	11.4	No Data	No Data	970	No Data	No Data	460	No Data

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.
[b]Total organic carbon.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	^3H[b] (TU)	Ag (µg/L)	Al (µg/L)	Alkalinity (ppm)	Alpha (pCi/L)	As (µg/L)	Ba (µg/L)	Beta (pCi/L)	Ca (mg/L)
82-40A	10/17/1990	No Data	No Data	No Data	408	712	51	No Data	No Data	No Data
	06/24/1991	No Data	No Data	No Data	357	617	44	No Data	No Data	No Data
	10/20/1991	No Data	No Data	No Data	430	880.	55.40	No Data	No Data	No Data
	04/15/1992	No Data	No Data	No Data	390	660	67.8	No Data	No Data	No Data
82-42	08/11/1982	No Data	No Data	<100	215	No Data	16	<100	No Data	9
	09/22/1982	No Data	No Data	<10	290	No Data	<10	140	No Data	119
	10/19/1982	No Data	No Data	<100	280	No Data	11	140	No Data	99
	11/16/1982	No Data	No Data	<20	370	No Data	<20	120	No Data	123
	04/30/1983	No Data	No Data	10	335	No Data	<10	100	No Data	130
	05/29/1983	No Data	No Data	20	349	No Data	<10	140	No Data	170
	07/21/1983	No Data	No Data	60	410	No Data	<10	120	No Data	219
	09/19/1983	No Data	No Data	<100	460	No Data	<10	130	No Data	170
	10/31/1983	No Data	No Data	<10	350	No Data	<10	100	No Data	140
	04/18/1984	No Data	No Data	290	330	No Data	<10	140	No Data	150
	05/21/1984	No Data	No Data	No Data	248	No Data	<10	<100	No Data	146
	07/23/1984	No Data	No Data	No Data	290	No Data	<10	<100	No Data	144
	09/24/1984	No Data	No Data	No Data	289	No Data	<10	<100	No Data	163
	10/29/1984	No Data	No Data	No Data	322	No Data	<10	<100	No Data	132
	04/09/1985	No Data	No Data	No Data	311	No Data	<10	<100	No Data	155
	10/14/1985	No Data	No Data	No Data	283	No Data	<10	<100	No Data	135
	06/02/1986	No Data	No Data	No Data	310	No Data	13	<100	No Data	147.
	10/20/1986	No Data	No Data	No Data	324	No Data	<5	No Data	No Data	154.
	10/20/1986	No Data	No Data	No Data	324	No Data	<5	No Data	No Data	154.
	05/18/1987	No Data	No Data	No Data	307	No Data	5	No Data	No Data	182.
82-43	08/11/1982	No Data	No Data	<100	258	No Data	<10	100	No Data	118
	09/22/1982	No Data	No Data	40	226	No Data	<10	118	No Data	132
	10/19/1982	No Data	No Data	<100	335	No Data	<10	160	No Data	122
	11/16/1982	No Data	No Data	<20	275	No Data	<20	130	No Data	140
	04/30/1983	No Data	No Data	<10	290	No Data	<10	<100	No Data	140
	05/29/1983	No Data	No Data	30	276	No Data	<10	70	No Data	131
	07/21/1983	No Data	No Data	30	236	No Data	<10	50	No Data	91
	09/19/1983	No Data	No Data	<100	285	No Data	<10	80	No Data	110
	10/31/1983	No Data	No Data	<10	277	No Data	<10	70	No Data	110
	03/19/1984	No Data	No Data	<100	227	No Data	<10	<100	No Data	96.9
	05/21/1984	No Data	No Data	No Data	228	No Data	<10	<100	No Data	99.2
	10/14/1985	No Data	No Data	No Data	269	No Data	<10	<100	No Data	120
	06/02/1986	No Data	No Data	No Data	307	No Data	<5	<100	No Data	170.
	10/20/1986	No Data	No Data	No Data	192	No Data	<5	No Data	No Data	269.
	05/18/1987	No Data	No Data	No Data	295	No Data	<5	No Data	No Data	196.

[a] A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "-" indicates an estimated value.
[b] Tritium in tritium units.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	Cd (µg/L)	Conductivity (µmhos/cm)	Cl (mg/L)	Cr (µg/L)	DO (mg/L)	Eh (mV)	F (mg/L)	Fe (µg/L)	Hg (µg/L)
82-40A	10/17/1990	No Data	2110	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	06/24/1991	No Data	2100	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/20/1991	No Data	1865	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/15/1992	No Data	1905	No Data	No Data	No Data	No Data	No Data	No Data	No Data
82-42	08/11/1982	No Data	350	31	No Data	No Data	170	<1	<50	No Data
	09/22/1982	No Data	1050	61	No Data	No Data	-110	No Data	1760	No Data
	10/19/1982	No Data	900	52	No Data	No Data	-140	No Data	2050	No Data
	11/16/1982	No Data	820	37	No Data	No Data	-85	No Data	2600	No Data
	04/30/1983	No Data	1020	31	No Data	2.2	-190	No Data	<200	No Data
	05/29/1983	No Data	1054	32	No Data	No Data	No Data	No Data	1300	No Data
	07/21/1983	No Data	1130	40	No Data	No Data	80	No Data	<50	No Data
	09/19/1983	No Data	950	35	No Data	No Data	180	No Data	50	No Data
	10/31/1983	No Data	850	17	No Data	No Data	150	No Data	<100	No Data
	04/18/1984	No Data	923	16	No Data	No Data	-85	No Data	2900	No Data
	05/21/1984	No Data	960	43	No Data	No Data	230	No Data	100	No Data
	07/23/1984	No Data	889	16	No Data	No Data	180	No Data	<500	No Data
	09/24/1984	No Data	825	16	No Data	No Data	-10	No Data	800	No Data
	10/29/1984	No Data	726	9	No Data	No Data	110	No Data	1060	No Data
	04/09/1985	No Data	843	17	No Data	No Data	No Data	No Data	2200	No Data
	10/14/1985	No Data	904	9.4	No Data	No Data	50	No Data	380	No Data
	06/02/1986	No Data	845.	8.9	No Data	No Data	30.	No Data	1800	No Data
	10/20/1986	No Data	700.	14.5	No Data	No Data	160.	No Data	No Data	No Data
	10/20/1986	No Data	700.	13.9	No Data	No Data	160.	No Data	No Data	No Data
	05/18/1987	No Data	973.	18.4	No Data	No Data	135.	No Data	160	No Data
82-43	08/11/1982	No Data	620	16	No Data	No Data	-220	<1	520	No Data
	09/22/1982	No Data	600	9	No Data	No Data	10	No Data	430	No Data
	10/19/1982	No Data	700	10	No Data	No Data	-40	No Data	700	No Data
	11/16/1982	No Data	620	11	No Data	No Data	No Data	No Data	820	No Data
	04/30/1983	No Data	816	13	No Data	2.9	No Data	No Data	730	No Data
	05/29/1983	No Data	715	8	No Data	No Data	No Data	No Data	600	No Data
	07/21/1983	No Data	466	3	No Data	No Data	No Data	No Data	530	No Data
	09/19/1983	No Data	480	5	No Data	No Data	-30	No Data	600	No Data
	10/31/1983	No Data	650	4	No Data	No Data	-90	No Data	700	No Data
	03/19/1984	No Data	612	5	No Data	No Data	-10	No Data	900	No Data
	05/21/1984	No Data	563	4	No Data	3.1	140	No Data	100	No Data
	10/14/1985	No Data	824	7.4	No Data	No Data	150	No Data	60	No Data
	06/02/1986	No Data	966.	11.4	No Data	No Data	110.	No Data	190	No Data
	10/20/1986	No Data	1000.	14.3	No Data	No Data	85.	No Data	No Data	No Data
	05/18/1987	No Data	1006.	11.1	No Data	No Data	140.	No Data	<100	No Data

[a] A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "-" indicates an estimated value.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	K (mg/L)	Mg (mg/L)	Mn (µg/L)	Mo (µg/L)	Na (mg/L)	NH_4-N (µg/L)	NO_3 (µg/L)	NO_3-N (µg/L)	Pb (µg/L)
82-40A	10/17/1990	No Data	No Data	No Data	167	No Data	No Data	270	No Data	No Data
	06/24/1991	No Data	No Data	No Data	184	No Data	2150	100	No Data	No Data
	10/20/1991	No Data	No Data	No Data	184.00	No Data	No Data	110	No Data	No Data
	04/15/1992	No Data	No Data	No Data	254	No Data	No Data	-144	No Data	No Data
82-42	08/11/1982	3	4	<50	<50	90	No Data	No Data	8856	No Data
	09/22/1982	12	17	4400	<50	189	No Data	<4428	No Data	No Data
	10/19/1982	10	17	4190	<50	127	No Data	<8856	No Data	No Data
	11/16/1982	9.3	19.3	5190	<100	119	No Data	No Data	<1000	No Data
	04/30/1983	8.5	19	4600	<10	90	No Data	No Data	No Data	No Data
	05/29/1983	8.8	25	4800	20	87	No Data	<22140	No Data	No Data
	07/21/1983	10	31	4500000	20	69	No Data	<2000	No Data	No Data
	09/19/1983	11	27	5400	20	79	No Data	<5000	No Data	No Data
	10/31/1983	7.6	22	3300	<10	50	No Data	<5000	No Data	No Data
	04/18/1984	5.3	30	3000	<50	39.7	No Data	<4428	No Data	No Data
	05/21/1984	5.7	22	2000	85	47.1	No Data	<2000	No Data	No Data
	07/23/1984	6.0	22	1500	<50	43	No Data	200	No Data	No Data
	09/24/1984	6.4	23.7	2000	<50	41.2	No Data	<5000	No Data	No Data
	10/29/1984	5.6	19.9	1590	60	38.4	No Data	<5000	No Data	No Data
	04/09/1985	6.41	24.5	1860	<50	39.9	No Data	<1000	No Data	No Data
	10/14/1985	4	21.7	810	<10	34.7	No Data	<1000	No Data	No Data
	06/02/1986	4.1	22.	440	<50	39.	No Data	<1000	No Data	No Data
	10/20/1986	4.2	22.	No Data	<50	36.	No Data	No Data	No Data	No Data
	10/20/1986	4.2	22.	No Data	<50	33.	No Data	No Data	No Data	No Data
	05/18/1987	4.00	25.6	390	<50	34.	No Data	3400	No Data	No Data
82-43	08/11/1982	3	18	1700	<50	38	No Data	No Data	<4428	No Data
	09/22/1982	4	19	2300	<50	28	No Data	<4428	No Data	No Data
	10/19/1982	5	20	1860	<50	29	No Data	<8856	No Data	No Data
	11/16/1982	3.3	20.8	2010	<100	29	No Data	No Data	<1000	No Data
	04/30/1983	2.1	21	910	<10	32	No Data	No Data	No Data	No Data
	05/29/1983	2.1	19	1100	10	29	No Data	<22140	No Data	No Data
	07/21/1983	1.9	14	695000	20	22	No Data	<2000	No Data	No Data
	09/19/1983	4	16	800	<20	27	No Data	<5000	No Data	No Data
	10/31/1983	2.3	15	600	<10	21	No Data	<5000	No Data	No Data
	03/19/1984	1.6	14.2	500	<50	17.4	No Data	No Data	<1000	No Data
	05/21/1984	1.8	14	200	<50	20.6	No Data	<2000	No Data	No Data
	10/14/1985	2	19.8	320	<10	28.8	No Data	2000	No Data	No Data
	06/02/1986	2.0	24.	270	<50	42.	No Data	5000	No Data	No Data
	10/20/1986	2.6	37.	No Data	<50	32.	No Data	No Data	No Data	No Data
	05/18/1987	2.00	25.0	78	<50	34.	No Data	2500	No Data	No Data

[a] A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "-" indicates an estimated value.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	Pb210 (pCi/L)	pH	PO_4 (mg/L)	Ra226 (pCi/L)	Ra228 (pCi/L)	Se (μg/L)	Si (mg/L)	SO_4 (mg/L)	Total Coliform (colonies/100 mL)
82-40A	10/17/1990	No Data	7.13	No Data	2.3	<3	<5	No Data	No Data	No Data
	06/24/1991	No Data	7.02	No Data	2.5	<3	<5	No Data	No Data	No Data
	10/20/1991	No Data	7.00	No Data	1.9	<2	<2.00	No Data	No Data	No Data
	04/15/1992	No Data	7.15	No Data	3.3	<3	<2.0	No Data	No Data	No Data
82-42	08/11/1982	No Data	8.7	No Data	3	No Data	<10	6.4	92	No Data
	09/22/1982	No Data	6.9	No Data	17	No Data	<10	6.95	340	No Data
	10/19/1982	No Data	7.5	No Data	21	No Data	<10	6.5	371	No Data
	11/16/1982	No Data	7.1	No Data	15	No Data	<20	7.95	280	No Data
	04/30/1983	No Data	7.4	<.153	No Data	No Data	<10	7.8	250	No Data
	05/29/1983	No Data	7.4	<0.050	No Data	No Data	<10	7.7	260	No Data
	07/21/1983	No Data	7.7	No Data	16	No Data	<10	7.3	380	No Data
	09/19/1983	No Data	7.5	No Data	16	No Data	<10	7.5	320	No Data
	10/31/1983	No Data	7.5	No Data	14	No Data	<10	7.0	230	No Data
	04/18/1984	No Data	7.1	No Data	23	No Data	<10	7.09	220	No Data
	05/21/1984	No Data	7.1	No Data	No Data	No Data	<10	8.9	240	No Data
	07/23/1984	No Data	6.9	No Data	No Data	No Data	<10	7	221	No Data
	09/24/1984	No Data	7.4	No Data	No Data	No Data	<10	7	210	No Data
	10/29/1984	No Data	No Data	No Data	No Data	No Data	<10	7.7	190	No Data
	04/09/1985	No Data	6.7	No Data	No Data	No Data	<5	9.4	270	No Data
	10/14/1985	No Data	7.1	<0.1	No Data	No Data	<5	7.6	196	No Data
	06/02/1986	No Data	7.0	No Data	No Data	No Data	11	9.5	206.	No Data
	10/20/1986	No Data	7.15	No Data	No Data	No Data	21	No Data	245.	No Data
	10/20/1986	No Data	7.15	No Data	No Data	No Data	<5	No Data	235.	No Data
	05/18/1987	No Data	6.9	No Data	No Data	No Data	<5	No Data	277.	No Data
82-43	08/11/1982	No Data	6.8	No Data	No Data	No Data	<10	6.0	173	No Data
	09/22/1982	No Data	6.9	No Data	<2	No Data	<10	7.06	163	No Data
	10/19/1982	No Data	6.9	No Data	<2	No Data	<10	6.1	248	No Data
	11/16/1982	No Data	7.4	No Data	<2	No Data	<20	7.77	200	No Data
	04/30/1983	No Data	7.1	<.153	No Data	No Data	<10	5.8	200	No Data
	05/29/1983	No Data	7.3	<0.050	No Data	No Data	<10	6.2	180	No Data
	07/21/1983	No Data	7.2	No Data	No Data	No Data	<10	6.2	92	No Data
	09/19/1983	No Data	7.6	No Data	<2	No Data	<10	6.1	130	No Data
	10/31/1983	No Data	7.2	No Data	<2.0	No Data	<10	6.7	110	No Data
	03/19/1984	No Data	7.2	No Data	No Data	No Data	<10	6.61	110	No Data
	05/21/1984	No Data	7.2	No Data	No Data	No Data	<10	6.4	100	No Data
	10/14/1985	No Data	7.0	<0.1	No Data	No Data	<5	6.9	15.7	No Data
	06/02/1986	No Data	7.1	No Data	No Data	No Data	10	9.8	266.	No Data
	10/20/1986	No Data	6.75	No Data	No Data	No Data	6	No Data	591.	No Data
	05/18/1987	No Data	6.9	No Data	No Data	No Data	<5	No Data	349.	No Data

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "-" indicates an estimated value.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	Temp (deg C)	Th230 (pCi/L)	TOC[b] (mg/L)	U (µg/L)	U234 (pCi/L)	U238 (pCi/L)	V (µg/L)	Zn (µg/L)
82-40A	10/17/1990	10.6	No Data	No Data	No Data	312	326	408	No Data
	06/24/1991	10.8	No Data	No Data	No Data	352	364	355	No Data
	10/20/1991	10.6	<4.1	No Data	No Data	375	395	343.00	No Data
	04/15/1992	11.5	0.6	No Data	No Data	330.8	334.4	211	No Data
82-42	08/11/1982	11.5	No Data	No Data	23	No Data	No Data	180	<50
	09/22/1982	11	No Data	No Data	800	No Data	No Data	<50	<50
	10/19/1982	10	No Data	No Data	1200	No Data	No Data	<50	<50
	11/16/1982	8	No Data	No Data	1600	No Data	No Data	100	<50
	04/30/1983	11	No Data	No Data	520	No Data	No Data	<50	<20
	05/29/1983	13	No Data	No Data	870	No Data	No Data	70	<50
	07/21/1983	12	No Data	No Data	1100	No Data	No Data	10	50
	09/19/1983	14	No Data	No Data	1800	No Data	No Data	20	20
	10/31/1983	9	No Data	No Data	600	No Data	No Data	20	50
	04/18/1984	10	No Data	No Data	400	No Data	No Data	60	<100
	05/21/1984	11	No Data	No Data	370	No Data	No Data	<50	60
	07/23/1984	11.5	No Data	No Data	No Data	No Data	No Data	<50	1130
	09/24/1984	9.5	No Data	No Data	300	No Data	No Data	<50	60
	10/29/1984	9	No Data	No Data	200	No Data	No Data	<50	260
	04/09/1985	10.5	No Data	No Data	200	No Data	No Data	60	<50
	10/14/1985	10	No Data	No Data	130	No Data	No Data	60	<5
	06/02/1986	12.5	No Data	No Data	70	No Data	No Data	<50	<10
	10/20/1986	10.	No Data	No Data	90	No Data	No Data	133	No Data
	10/20/1986	10.	No Data	No Data	92	No Data	No Data	124	No Data
	05/18/1987	13.	No Data	No Data	63	No Data	No Data	150	No Data
82-43	08/11/1982	14	No Data	No Data	6	No Data	No Data	<50	<50
	09/22/1982	15	No Data	No Data	7	No Data	No Data	<50	50
	10/19/1982	12	No Data	No Data	7	No Data	No Data	<50	<50
	11/16/1982	10	No Data	No Data	8	No Data	No Data	<50	<50
	04/30/1983	7	No Data	No Data	21	No Data	No Data	<50	150
	05/29/1983	10	No Data	No Data	21	No Data	No Data	<10	<50
	07/21/1983	12	No Data	No Data	10	No Data	No Data	<10	50
	09/19/1983	11	No Data	No Data	12	No Data	No Data	<10	<20
	10/31/1983	9.5	No Data	No Data	15	No Data	No Data	<10	100
	03/19/1984	7	No Data	No Data	11	No Data	No Data	<50	100
	05/21/1984	11	No Data	No Data	11	No Data	No Data	<50	110
	10/14/1985	11	No Data	No Data	9	No Data	No Data	<10	<5
	06/02/1986	10.	No Data	No Data	13	No Data	No Data	<50	<10
	10/20/1986	10.	No Data	No Data	19	No Data	No Data	<50	No Data
	05/18/1987	9.	No Data	No Data	11	No Data	No Data	<50	No Data

[a] A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.
[b] Total organic carbon.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	3H[b] (TU)	Ag (µg/L)	Al (µg/L)	Alkalinity (ppm)	Alpha (pCi/L)	As (µg/L)	Ba (µg/L)	Beta (pCi/L)	Ca (mg/L)
82-43	10/13/1987	No Data	No Data	No Data	279	9.7	<5	No Data	No Data	No Data
	04/14/1988	No Data	No Data	No Data	295	<46	<5	No Data	<76	No Data
	10/17/1988	No Data	No Data	No Data	346	<26	<5	No Data	<20	No Data
	05/09/1989	No Data	No Data	No Data	268	<48	<10	No Data	<37	No Data
	10/18/1989	No Data	No Data	No Data	349	<54	<10	No Data	<29	No Data
	10/18/1989	No Data	No Data	No Data	No Data	<54	<10	No Data	<29	No Data
	04/11/1990	No Data	No Data	No Data	246	<43	<10	No Data	<34	No Data
	04/11/1990	No Data	No Data	No Data	No Data	<43	<10	No Data	<34	No Data
	10/17/1990	No Data	No Data	No Data	281	<63	<10	No Data	No Data	No Data
	06/24/1991	No Data	No Data	No Data	288	<39	<10	No Data	No Data	No Data
	10/20/1991	No Data	No Data	No Data	131	<40.	<3.00	No Data	No Data	No Data
	04/14/1992	No Data	No Data	No Data	262	<20	<2.0	No Data	No Data	No Data
82-44	08/11/1982	No Data	No Data	250	293	No Data	<10	110	No Data	125
	09/22/1982	No Data	No Data	<10	266	No Data	<10	124	No Data	143
	10/19/1982	No Data	No Data	<100	310	No Data	<10	120	No Data	128
	11/16/1982	No Data	No Data	<20	345	No Data	<20	110	No Data	150
	04/30/1983	No Data	No Data	<10	292	No Data	<10	<100	No Data	140
	05/29/1983	No Data	No Data	<10	282	No Data	<10	70	No Data	125
	09/19/1983	No Data	No Data	<100	299	No Data	<10	80	No Data	130
	10/31/1983	No Data	No Data	180	293	No Data	<10	80	No Data	140
	03/19/1984	No Data	No Data	<100	257	No Data	<10	<100	No Data	123
	04/18/1984	No Data	No Data	<100	300	No Data	<10	<100	No Data	140
	05/21/1984	No Data	No Data	No Data	259	No Data	<10	<100	No Data	132
	07/23/1984	No Data	No Data	No Data	317	No Data	<10	<100	No Data	138
	09/24/1984	No Data	No Data	No Data	220	No Data	<10	<100	No Data	148
	10/29/1984	No Data	No Data	No Data	299	No Data	<10	<100	No Data	154
	04/09/1985	No Data	No Data	No Data	315	No Data	<10	<100	No Data	139
	10/14/1985	No Data	No Data	No Data	296	No Data	<10	<100	No Data	170
	06/02/1986	No Data	No Data	No Data	285	No Data	<5	<100	No Data	146.
	10/20/1986	No Data	No Data	No Data	230	No Data	<5	No Data	No Data	192.
	06/24/1991	No Data	No Data	No Data	236	No Data	No Data	No Data	No Data	No Data
	10/20/1991	No Data	No Data	No Data	357	No Data	No Data	No Data	No Data	No Data
82-45B	08/11/1982	No Data	No Data	<100	315	No Data	<1	<100	No Data	112
	09/22/1982	No Data	No Data	<10	330	No Data	<10	110	No Data	139
	10/19/1982	No Data	No Data	<100	400	No Data	<10	110	No Data	127
	11/16/1982	No Data	No Data	<20	390	No Data	<20	110	No Data	151
	04/30/1983	No Data	No Data	<10	326	No Data	<10	100	No Data	200
	05/29/1983	No Data	No Data	<10	312	No Data	10	110	No Data	185
	07/21/1983	No Data	No Data	20	274	No Data	<10	20	No Data	135

[a] A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "-" indicates an estimated value.
[b] Tritium in tritium units.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	Cd (µg/L)	Conductivity (µmhos/cm)	Cl (mg/L)	Cr (µg/L)	DO (mg/L)	Eh (mV)	F (mg/L)	Fe (µg/L)	Hg (µg/L)
82-43	10/13/1987	No Data	2440.	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/14/1988	No Data	2310	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/17/1988	No Data	2760	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	05/09/1989	No Data	2460	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/18/1989	No Data	2130	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/18/1989	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/11/1990	No Data	2260	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/11/1990	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/17/1990	No Data	2080	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	06/24/1991	No Data	1675	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/20/1991	No Data	1703	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/14/1992	No Data	1099	No Data	No Data	No Data	No Data	No Data	No Data	No Data
82-44	08/11/1982	No Data	750	13	No Data	No Data	-70	<1	350	No Data
	09/22/1982	No Data	700	11	No Data	No Data	10	No Data	520	No Data
	10/19/1982	No Data	725	11	No Data	No Data	-50	No Data	800	No Data
	11/16/1982	No Data	700	16	No Data	No Data	-40	No Data	1950	No Data
	04/30/1983	No Data	804	15	No Data	2.3	60	No Data	530	No Data
	05/29/1983	No Data	715	12	No Data	No Data	No Data	No Data	300	No Data
	09/19/1983	No Data	600	9	No Data	No Data	-60	No Data	700	No Data
	10/31/1983	No Data	870	9	No Data	No Data	-130	No Data	1300	No Data
	03/19/1984	No Data	816	9	No Data	No Data	-20	No Data	900	No Data
	04/18/1984	No Data	845	9	No Data	No Data	-90	No Data	2200	No Data
	05/21/1984	No Data	721	7	No Data	3.1	50	No Data	200	No Data
	07/23/1984	No Data	780	9.4	No Data	2.6	130	No Data	500	No Data
	09/24/1984	No Data	832	10	No Data	1.2	-35	No Data	900	No Data
	10/29/1984	No Data	774	10	No Data	No Data	150	No Data	560	No Data
	04/09/1985	No Data	822	14	No Data	No Data	No Data	No Data	800	No Data
	10/14/1985	No Data	1001	11.1	No Data	No Data	60	No Data	180	No Data
	06/02/1986	No Data	897.	9.9	No Data	No Data	-70.	No Data	440	No Data
	10/20/1986	No Data	800.	10.5	No Data	No Data	50.	No Data	No Data	No Data
	06/24/1991	No Data	895	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/20/1991	No Data	1159	No Data	No Data	No Data	No Data	No Data	No Data	No Data
82-45B	08/11/1982	No Data	630	12	No Data	No Data	-130	<1	490	No Data
	09/22/1982	No Data	700	9	No Data	No Data	-60	No Data	1330	No Data
	10/19/1982	No Data	700	11	No Data	No Data	-60	No Data	1300	No Data
	11/16/1982	No Data	700	12	No Data	No Data	-38	No Data	1820	No Data
	04/30/1983	No Data	1070	42	No Data	1.9	-30	No Data	1100	No Data
	05/29/1983	No Data	960	33	No Data	No Data	No Data	No Data	20	No Data
	07/21/1983	No Data	756	11	No Data	No Data	120	No Data	150	No Data

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "-" indicates an estimated value.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	K (mg/L)	Mg (mg/L)	Mn (µg/L)	Mo (µg/L)	Na (mg/L)	NH_4-N (µg/L)	NO_3 (µg/L)	NO_3-N (µg/L)	Pb (µg/L)
82-43	10/13/1987	No Data	No Data	No Data	<50	No Data	No Data	136000	No Data	No Data
	04/14/1988	No Data	No Data	No Data	<50	No Data	No Data	51100	No Data	No Data
	10/17/1988	No Data	No Data	No Data	<50	No Data	No Data	125000	No Data	No Data
	05/09/1989	No Data	No Data	No Data	<10	No Data	No Data	24200	No Data	No Data
	10/18/1989	No Data	No Data	No Data	<10	No Data	No Data	7640	No Data	No Data
	10/18/1989	No Data	No Data	No Data	<10	No Data	No Data	7600	No Data	No Data
	04/11/1990	No Data	No Data	No Data	<10	No Data	No Data	750	No Data	No Data
	04/11/1990	No Data	No Data	No Data	<10	No Data	No Data	560	No Data	No Data
	10/17/1990	No Data	No Data	No Data	<10	No Data	No Data	1600	No Data	No Data
	06/24/1991	No Data	No Data	No Data	12	No Data	200	1040	No Data	No Data
	10/20/1991	No Data	No Data	No Data	<18.00	No Data	No Data	1890	No Data	No Data
	04/14/1992	No Data	No Data	No Data	<21.0	No Data	No Data	1160	No Data	No Data
82-44	08/11/1982	5	18	2120	<50	42	No Data	No Data	<4428	No Data
	09/22/1982	7	22	2900	<50	31	No Data	<4428	No Data	No Data
	10/19/1982	4	23	2250	<50	32	No Data	<8856	No Data	No Data
	11/16/1982	4.2	24.8	2370	<100	37	No Data	No Data	<1000	No Data
	04/30/1983	2.8	22	1100	<10	30	No Data	No Data	No Data	No Data
	05/29/1983	2.8	21	850	<10	31	No Data	<22140	No Data	No Data
	09/19/1983	5	20	1000	<20	31	No Data	<5000	No Data	No Data
	10/31/1983	3.6	22	1000	<10	30	No Data	<5000	No Data	No Data
	03/19/1984	2.5	20.1	800	<50	24.7	No Data	No Data	<1000	No Data
	04/18/1984	2.61	21.4	1000	70	29.7	No Data	<4428	No Data	No Data
	05/21/1984	2.5	20	300	<50	26.3	No Data	<2000	No Data	No Data
	07/23/1984	2.4	21	<500	<50	29	No Data	<100	No Data	No Data
	09/24/1984	2.8	22.5	<500	<50	24.0	No Data	<5000	No Data	No Data
	10/29/1984	3.1	24.0	280	<50	28.2	No Data	<5000	No Data	No Data
	04/09/1985	2.62	23.2	360	<50	29.7	No Data	3000	No Data	No Data
	10/14/1985	2	25.1	100	<10	27.0	No Data	2000	No Data	No Data
	06/02/1986	2.4	23.	160	<50	36.	No Data	3000	No Data	No Data
	10/20/1986	2.8	28.	No Data	<50	32.	No Data	No Data	No Data	No Data
	06/24/1991	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/20/1991	No Data	No Data	No Data	No Data	No Data	No Data	1490	No Data	No Data
82-45B	08/11/1982	4	18	2440	<50	30	No Data	No Data	4428	No Data
	09/22/1982	5	21	2500	<50	31	No Data	<4428	No Data	No Data
	10/19/1982	3	22	1390	<50	31	No Data	<8856	No Data	No Data
	11/16/1982	3.7	23.4	1430	<100	32	No Data	No Data	<1000	No Data
	04/30/1983	3.7	32	880	<10	39	No Data	No Data	No Data	No Data
	05/29/1983	4.2	27	1000	<10	43	No Data	<22140	No Data	No Data
	07/21/1983	3.7	21	465000	20	34	No Data	4000	No Data	No Data

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "-" indicates an estimated value.

Momticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	Pb210 (pCi/L)	pH	PO_4 (mg/L)	Ra226 (pCi/L)	Ra228 (pCi/L)	Se (μg/L)	Si (mg/L)	SO_4 (mg/L)	Total Coliform (colonies/100 mL)
82-43	10/13/1987	No Data	6.8	No Data	<0.1	<1.	10	No Data	No Data	No Data
	04/14/1988	No Data	6.63	No Data	0.1	<0.7	<5	No Data	No Data	No Data
	10/17/1988	No Data	6.80	No Data	<0.1	<1.3	<5	No Data	No Data	No Data
	05/09/1989	No Data	6.75	No Data	<0.2	<3.0	<5	No Data	No Data	No Data
	10/18/1989	No Data	6.52	No Data	<0.2	<2.0	<5	No Data	No Data	No Data
	10/18/1989	No Data	No Data	No Data	<0.1	<2.0	<5	No Data	No Data	No Data
	04/11/1990	No Data	7.00	No Data	<0.1	<1	<5	No Data	No Data	No Data
	04/11/1990	No Data	No Data	No Data	<0.2	<2	<5	No Data	No Data	No Data
	10/17/1990	No Data	7.19	No Data	0.3	<2	<5	No Data	No Data	No Data
	06/24/1991	No Data	6.89	No Data	<0.1	<2	<5	No Data	No Data	No Data
	10/20/1991	No Data	6.76	No Data	0.1	<2	<2.00	No Data	No Data	No Data
	04/14/1992	No Data	7.00	No Data	0.1	<2	<2.0	No Data	No Data	No Data
82-44	08/11/1982	No Data	6.7	No Data	No Data	No Data	<10	7.0	145	No Data
	09/22/1982	No Data	7.0	No Data	No Data	No Data	<10	8.24	202	No Data
	10/19/1982	No Data	7.1	No Data	No Data	No Data	<10	6.9	256	No Data
	11/16/1982	No Data	7.4	No Data	<2	No Data	<20	9.01	214	No Data
	04/30/1983	No Data	7.2	<.153	No Data	No Data	<10	6.4	210	No Data
	05/29/1983	No Data	7.3	<0.050	No Data	No Data	<10	6.8	170	No Data
	09/19/1983	No Data	7.6	No Data	<2	No Data	<10	6.9	190	No Data
	10/31/1983	No Data	7.4	No Data	<2.0	No Data	<10	7.3	210	No Data
	03/19/1984	No Data	7.4	No Data	No Data	No Data	<10	7.20	200	No Data
	04/18/1984	No Data	7.4	No Data	<2	No Data	<10	7.15	177	No Data
	05/21/1984	No Data	7.2	No Data	No Data	No Data	<10	7.3	180	No Data
	07/23/1984	No Data	7.05	No Data	No Data	No Data	<10	7	197	No Data
	09/24/1984	No Data	6.9	No Data	No Data	No Data	<10	8	230	No Data
	10/29/1984	No Data	7.6	No Data	No Data	No Data	<10	7.3	240	No Data
	04/09/1985	No Data	6.0	No Data	No Data	No Data	<5	6.8	200	No Data
	10/14/1985	No Data	6.9	<0.1	No Data	No Data	<5	7.4	234	No Data
	06/02/1986	No Data	7.2	No Data	No Data	No Data	<5	9.4	217.	No Data
	10/20/1986	No Data	6.75	No Data	No Data	No Data	<5	No Data	346.	No Data
	06/24/1991	No Data	7.19	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/20/1991	No Data	6.98	No Data	No Data	No Data	No Data	No Data	No Data	No Data
82-45B	08/11/1982	No Data	6.8	No Data	4	No Data	<10	6.9	136	No Data
	09/22/1982	No Data	6.9	No Data	<2	No Data	<10	8.31	179	No Data
	10/19/1982	No Data	6.8	No Data	<2	No Data	<10	6.8	224	No Data
	11/16/1982	No Data	6.9	No Data	<2	No Data	<20	8.38	221	No Data
	04/30/1983	No Data	7.0	<.153	No Data	No Data	<10	6.7	350	No Data
	05/29/1983	No Data	7.1	<0.050	No Data	No Data	<10	7.6	310	No Data
	07/21/1983	No Data	7.3	No Data	No Data	No Data	<10	6.6	180	No Data

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "-" indicates an estimated value.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	Temp (deg C)	Th230 (pCi/L)	TOC[b] (mg/L)	U (µg/L)	U234 (pCi/L)	U238 (pCi/L)	V (µg/L)	Zn (µg/L)
82-43	10/13/1987	9.5	No Data	No Data	20	No Data	No Data	<50	No Data
	04/14/1988	8.0	No Data	No Data	20	No Data	No Data	<50	No Data
	10/17/1988	10.2	No Data	No Data	22	No Data	No Data	<50	No Data
	05/09/1989	8.5	No Data	No Data	20	No Data	No Data	<50	No Data
	10/18/1989	9.9	No Data	No Data	19	No Data	No Data	<50	No Data
	10/18/1989	No Data	No Data	No Data	19	No Data	No Data	<50	No Data
	04/11/1990	8.1	No Data	No Data	10	No Data	No Data	<50	No Data
	04/11/1990	No Data	No Data	No Data	13	No Data	No Data	<50	No Data
	10/17/1990	10.8	No Data	No Data	No Data	6.2	4.6	<50	No Data
	06/24/1991	7.1	No Data	No Data	No Data	5.5	3.1	<50	No Data
	10/20/1991	10.5	<0.7	No Data	No Data	5.2	2.5	<10.00	No Data
	04/14/1992	7.4	<0.14	No Data	No Data	3.7	2.2	<7.0	No Data
82-44	08/11/1982	20	No Data	No Data	2	No Data	No Data	<50	<50
	09/22/1982	12	No Data	No Data	8	No Data	No Data	<50	<50
	10/19/1982	12	No Data	No Data	6	No Data	No Data	<50	<50
	11/16/1982	8.5	No Data	No Data	5	No Data	No Data	<50	<50
	04/30/1983	8	No Data	No Data	10	No Data	No Data	<50	50
	05/29/1983	10	No Data	No Data	12	No Data	No Data	<10	<50
	09/19/1983	11	No Data	No Data	12	No Data	No Data	<10	<20
	10/31/1983	12	No Data	No Data	11	No Data	No Data	<10	50
	03/19/1984	7	No Data	No Data	7	No Data	No Data	<50	100
	04/18/1984	11	No Data	No Data	10	No Data	No Data	<50	<100
	05/21/1984	9.5	No Data	No Data	8	No Data	No Data	<50	400
	07/23/1984	10	No Data	No Data	10	No Data	No Data	<50	5020
	09/24/1984	11	No Data	No Data	10	No Data	No Data	<50	670
	10/29/1984	10.5	No Data	No Data	10	No Data	No Data	<50	290
	04/09/1985	10.5	No Data	No Data	9	No Data	No Data	<50	<50
	10/14/1985	10	No Data	No Data	9	No Data	No Data	<10	<5
	06/02/1986	10.	No Data	No Data	9	No Data	No Data	<50	<10
	10/20/1986	11.	No Data	No Data	12	No Data	No Data	<50	No Data
	06/24/1991	8.8	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/20/1991	10.0	No Data	No Data	No Data	No Data	No Data	No Data	No Data
82-45B	08/11/1982	17	No Data	No Data	20	No Data	No Data	<50	<50
	09/22/1982	14	No Data	No Data	19	No Data	No Data	<50	<50
	10/19/1982	11	No Data	No Data	24	No Data	No Data	<50	<50
	11/16/1982	11	No Data	No Data	26	No Data	No Data	<50	<50
	04/30/1983	8	No Data	No Data	51	No Data	No Data	<50	30
	05/29/1983	11	No Data	No Data	50	No Data	No Data	<10	<50
	07/21/1983	12	No Data	No Data	33	No Data	No Data	<10	<50

[a] A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.
[b] Total organic carbon.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	^3H[b] (TU)	Ag (µg/L)	Al (µg/L)	Alkalinity (ppm)	Alpha (pCi/L)	As (µg/L)	Ba (µg/L)	Beta (pCi/L)	Ca (mg/L)
82-45B	09/19/1983	No Data	No Data	<100	300	No Data	<10	60	No Data	120
	10/31/1983	No Data	No Data	30	270	No Data	<10	70	No Data	140
	04/18/1984	No Data	No Data	<100	269	No Data	<10	<100	No Data	150
	04/18/1984	No Data	No Data	<100	269	No Data	<10	<100	No Data	140
	05/21/1984	No Data	No Data	No Data	275	No Data	<10	<100	No Data	153
	07/23/1984	No Data	No Data	No Data	265	No Data	<10	<100	No Data	138
	09/24/1984	No Data	No Data	No Data	275	No Data	<10	<100	No Data	135
	10/29/1984	No Data	No Data	No Data	273	No Data	<10	<100	No Data	138
	04/09/1985	No Data	No Data	No Data	302	No Data	<10	<100	No Data	162
	10/14/1985	No Data	No Data	No Data	303	No Data	<10	<100	No Data	145
	06/02/1986	No Data	No Data	No Data	300	No Data	<5	<100	No Data	172.
	10/20/1986	No Data	No Data	No Data	408	No Data	<5	No Data	No Data	188.
	05/18/1987	No Data	No Data	No Data	320	No Data	<5	No Data	No Data	169.
	10/13/1987	No Data	No Data	No Data	293	24.0	<5	No Data	No Data	No Data
	10/13/1987	No Data	No Data	No Data	293	26.0	<5	No Data	No Data	No Data
	04/14/1988	No Data	No Data	No Data	283	13	<5	No Data	<15	No Data
	04/15/1988	No Data	No Data	No Data	No Data	37	<5	No Data	<15	No Data
	10/17/1988	No Data	No Data	No Data	322	<13	<5	No Data	14	No Data
	10/18/1988	No Data	No Data	No Data	322	<15	<5	No Data	<19	No Data
	05/10/1989	No Data	No Data	No Data	279	<34	<10	No Data	<32	No Data
	10/18/1989	No Data	No Data	No Data	327	<45	<10	No Data	<29	No Data
	04/11/1990	No Data	No Data	No Data	304	<29	<10	No Data	<24	No Data
	10/17/1990	No Data	No Data	No Data	292	<46	<10	No Data	No Data	No Data
	06/24/1991	No Data	No Data	No Data	280	<27	<10	No Data	No Data	No Data
	10/20/1991	No Data	No Data	No Data	128	<30.	<3.00	No Data	No Data	No Data
	04/15/1992	No Data	No Data	No Data	256	<18	<2.0	No Data	No Data	No Data
	04/15/1992	No Data	No Data	No Data	No Data	<30	<2.0	No Data	No Data	No Data
82-51	08/11/1982	No Data	No Data	<100	380	No Data	<10	<100	No Data	155
	09/22/1982	No Data	No Data	<10	320	No Data	<10	92	No Data	154
	10/19/1982	No Data	No Data	<100	385	No Data	<10	100	No Data	135
	11/16/1982	No Data	No Data	<20	440	No Data	<20	110	No Data	149
	04/30/1983	No Data	No Data	<10	421	No Data	<10	200	No Data	220
	05/29/1983	No Data	No Data	<10	404	No Data	10	180	No Data	245
	09/19/1983	No Data	No Data	<100	445	No Data	<10	110	No Data	180
	10/31/1983	No Data	No Data	70	500	No Data	<10	120	No Data	160
	03/19/1984	No Data	No Data	<100	348	No Data	<10	160	No Data	198
	04/18/1984	No Data	No Data	<100	359	No Data	<10	850	No Data	210
	05/21/1984	No Data	No Data	No Data	380	No Data	<10	<100	No Data	223
	07/23/1984	No Data	No Data	No Data	384	No Data	<10	100	No Data	196

[a] A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.
[b] Tritium in tritium units.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	Cd (µg/L)	Conductivity (µmhos/cm)	Cl (mg/L)	Cr (µg/L)	DO (mg/L)	Eh (mV)	F (mg/L)	Fe (µg/L)	Hg (µg/L)
82-45B	09/19/1983	No Data	550	7	No Data	No Data	180	No Data	100	No Data
	10/31/1983	No Data	790	10	No Data	No Data	-50	No Data	200	No Data
	04/18/1984	No Data	804	10	No Data	No Data	50	No Data	500	No Data
	04/18/1984	No Data	804	9	No Data	No Data	50	No Data	600	No Data
	05/21/1984	No Data	845	38	No Data	2.5	80	No Data	100	No Data
	07/23/1984	No Data	819	9.0	No Data	1.4	180	No Data	<500	No Data
	09/24/1984	No Data	744	10	No Data	0.8	15	No Data	<500	No Data
	10/29/1984	No Data	732	8	No Data	No Data	140	No Data	240	No Data
	04/09/1985	No Data	966	22	No Data	No Data	No Data	No Data	400	No Data
	10/14/1985	No Data	924	7.8	No Data	No Data	140	No Data	<30	No Data
	06/02/1986	No Data	945.	17.0	No Data	No Data	100.	No Data	190	No Data
	10/20/1986	No Data	600.	11.1	No Data	No Data	70.	No Data	No Data	No Data
	05/18/1987	No Data	887.	13.0	No Data	No Data	190.	No Data	120	No Data
	10/13/1987	No Data	1300.	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/13/1987	No Data	1300.	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/14/1988	No Data	1264	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/15/1988	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/17/1988	No Data	1470	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/18/1988	No Data	1470	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	05/10/1989	No Data	1581	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/18/1989	No Data	1840	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/11/1990	No Data	1515	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/17/1990	No Data	1574	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	06/24/1991	No Data	1146	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/20/1991	No Data	1426	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/15/1992	No Data	894	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/15/1992	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
82-51	08/11/1982	No Data	860	28	No Data	No Data	-90	<1	1700	No Data
	09/22/1982	No Data	800	16	No Data	No Data	-80	No Data	2000	No Data
	10/19/1982	No Data	800	49	No Data	No Data	-120	No Data	2300	No Data
	11/16/1982	No Data	730	17	No Data	No Data	-80	No Data	2560	No Data
	04/30/1983	No Data	1300	65	No Data	1.5	-100	No Data	4300	No Data
	05/29/1983	No Data	1306	70	No Data	No Data	No Data	No Data	4500	No Data
	09/19/1983	No Data	850	30	No Data	No Data	-80	No Data	2400	No Data
	10/31/1983	No Data	920	20	No Data	No Data	-90	No Data	2700	No Data
	03/19/1984	No Data	1270	33	No Data	No Data	-50	No Data	3600	No Data
	04/18/1984	No Data	1188	45	No Data	No Data	-70	No Data	3000	No Data
	05/21/1984	No Data	1323	46	No Data	1.5	-50	No Data	1800	No Data
	07/23/1984	No Data	1216	37	No Data	1.2	-80	No Data	2800	No Data

[a] A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	K (mg/L)	Mg (mg/L)	Mn (µg/L)	Mo (µg/L)	Na (mg/L)	NH_4-N (µg/L)	NO_3 (µg/L)	NO_3-N (µg/L)	Pb (µg/L)
82-45B	09/19/1983	4	17	400	<20	29	No Data	<5000	No Data	No Data
	10/31/1983	3.9	20	500	<10	30	No Data	<5000	No Data	No Data
	04/18/1984	2.6	20.7	700	<50	25.7	No Data	4428	No Data	No Data
	04/18/1984	2.68	19.6	700	60	26.8	No Data	4428	No Data	No Data
	05/21/1984	3.35	21	400	186	27.8	No Data	2000	No Data	No Data
	07/23/1984	2.9	19	<500	<50	30	No Data	<100	No Data	No Data
	09/24/1984	3.3	19.5	<500	<50	25.5	No Data	<5000	No Data	No Data
	10/29/1984	3.6	20.7	340	<50	22.0	No Data	<5000	No Data	No Data
	04/09/1985	3.37	25.5	200	<50	329	No Data	5000	No Data	No Data
	10/14/1985	3	23.6	140	<10	27.4	No Data	<1000	No Data	No Data
	06/02/1986	3.2	24.	170	<50	28.	No Data	7000	No Data	No Data
	10/20/1986	3.7	27.	No Data	<50	33.	No Data	No Data	No Data	No Data
	05/18/1987	3.00	23.4	154	<50	30.	No Data	3400	No Data	No Data
	10/13/1987	No Data	No Data	No Data	<50	No Data	No Data	20700	No Data	No Data
	10/13/1987	No Data	No Data	No Data	<50	No Data	No Data	20500	No Data	No Data
	04/14/1988	No Data	No Data	No Data	<50	No Data	No Data	4400	No Data	No Data
	04/15/1988	No Data	No Data	No Data	<50	No Data	No Data	4200	No Data	No Data
	10/17/1988	No Data	No Data	No Data	<50	No Data	No Data	21900	No Data	No Data
	10/18/1988	No Data	No Data	No Data	<50	No Data	No Data	200	No Data	No Data
	05/10/1989	No Data	No Data	No Data	<10	No Data	No Data	5740	No Data	No Data
	10/18/1989	No Data	No Data	No Data	<10	No Data	No Data	5440	No Data	No Data
	04/11/1990	No Data	No Data	No Data	<10	No Data	No Data	960	No Data	No Data
	10/17/1990	No Data	No Data	No Data	<10	No Data	No Data	1270	No Data	No Data
	06/24/1991	No Data	No Data	No Data	<10	No Data	140	810	No Data	No Data
	10/20/1991	No Data	No Data	No Data	<18.00	No Data	No Data	1200	No Data	No Data
	04/15/1992	No Data	No Data	No Data	<21.0	No Data	No Data	1480	No Data	No Data
	04/15/1992	No Data	No Data	No Data	-23.5	No Data	No Data	2960	No Data	No Data
82-51	08/11/1982	4	26	2250	<50	48	No Data	No Data	<4428	No Data
	09/22/1982	4	26	2200	<50	47	No Data	<4428	No Data	No Data
	10/19/1982	4	26	1420	<50	43	No Data	<8856	No Data	No Data
	11/16/1982	3.1	26.4	1470	<100	43	No Data	No Data	<1000	No Data
	04/30/1983	3.4	45	2500	<10	60	No Data	No Data	No Data	No Data
	05/29/1983	3.6	41	2500	<10	67	No Data	<22140	No Data	No Data
	09/19/1983	3.6	31	2000	<20	56	No Data	<5000	No Data	No Data
	10/31/1983	2.9	29	1600	<10	51	No Data	<5000	No Data	No Data
	03/19/1984	3.2	36.1	2200	<50	54.5	No Data	No Data	<1000	No Data
	04/18/1984	2.9	40	2600	<50	56	No Data	<4428	No Data	No Data
	05/21/1984	2.99	36	1700	<50	56	No Data	<2000	No Data	No Data
	07/23/1984	3.0	34	1700	<50	55	No Data	<100	No Data	No Data

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "-" indicates an estimated value.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	Pb210 (pCi/L)	pH	PO_4 (mg/L)	Ra226 (pCi/L)	Ra228 (pCi/L)	Se (μg/L)	Si (mg/L)	SO_4 (mg/L)	Total Coliform (colonies/100 mL)
82-45B	09/19/1983	No Data	7.4	No Data	<2	No Data	<10	7.2	170	No Data
	10/31/1983	No Data	7.5	No Data	<2	No Data	<10	7.0	210	No Data
	04/18/1984	No Data	7.0	No Data	<2.0	No Data	<10	6.72	200	No Data
	04/18/1984	No Data	7.0	No Data	<2	No Data	<10	6.52	190	No Data
	05/21/1984	No Data	7.2	No Data	No Data	No Data	<10	6.4	220	No Data
	07/23/1984	No Data	7.2	No Data	No Data	No Data	<10	7	193	No Data
	09/24/1984	No Data	7.1	No Data	No Data	No Data	<10	8	180	No Data
	10/29/1984	No Data	7.5	No Data	No Data	No Data	<10	7.6	200	No Data
	04/09/1985	No Data	6.5	No Data	No Data	No Data	<5	7.3	280	No Data
	10/14/1985	No Data	6.8	<0.1	No Data	No Data	<5	7.0	196	No Data
	06/02/1986	No Data	7.0	No Data	No Data	No Data	8	7.3	251.	No Data
	10/20/1986	No Data	6.75	No Data	No Data	No Data	<5	No Data	354.	No Data
	05/18/1987	No Data	6.7	No Data	No Data	No Data	<5	No Data	222.	No Data
	10/13/1987	No Data	6.75	No Data	0.5	<1.	<5	No Data	No Data	No Data
	10/13/1987	No Data	6.75	No Data	0.5	<1.	<5	No Data	No Data	No Data
	04/14/1988	No Data	6.89	No Data	0.4	<1.2	<5	No Data	No Data	No Data
	04/15/1988	No Data	No Data	No Data	0.4	<1.4	<5	No Data	No Data	No Data
	10/17/1988	No Data	6.68	No Data	0.6	<1.3	<5	No Data	No Data	No Data
	10/18/1988	No Data	6.68	No Data	0.5	<1.3	<5	No Data	No Data	No Data
	05/10/1989	No Data	6.89	No Data	0.2	<1.0	<5	No Data	No Data	No Data
	10/18/1989	No Data	6.68	No Data	0.2	<2.0	<5	No Data	No Data	No Data
	04/11/1990	No Data	6.93	No Data	0.2	<1	<5	No Data	No Data	No Data
	10/17/1990	No Data	7.13	No Data	0.4	<3	<5	No Data	No Data	No Data
	06/24/1991	No Data	7.05	No Data	0.2	<2	<5	No Data	No Data	No Data
	10/20/1991	No Data	6.90	No Data	0.2	<2	<2.00	No Data	No Data	No Data
	04/15/1992	No Data	6.96	No Data	0.2	<1	<2.0	No Data	No Data	No Data
	04/15/1992	No Data	No Data	No Data	0.2	<1	<2.0	No Data	No Data	No Data
82-51	08/11/1982	No Data	7.2	No Data	2	No Data	<10	7.6	236	No Data
	09/22/1982	No Data	6.8	No Data	3	No Data	<10	7.86	221	No Data
	10/19/1982	No Data	7.0	No Data	<2	No Data	<10	6.8	256	No Data
	11/16/1982	No Data	7.1	No Data	<2	No Data	<20	7.98	217	No Data
	04/30/1983	No Data	7.0	<.153	No Data	No Data	<10	8.2	410	No Data
	05/29/1983	No Data	7.1	<0.050	No Data	No Data	<10	8.9	480	No Data
	09/19/1983	No Data	7.4	No Data	<2	No Data	<10	7.7	320	No Data
	10/31/1983	No Data	7.4	No Data	<2.0	No Data	<10	7.6	270	No Data
	03/19/1984	No Data	7.3	No Data	No Data	No Data	<10	9.21	340	No Data
	04/18/1984	No Data	7.2	No Data	<2	No Data	<10	7.10	350	No Data
	05/21/1984	No Data	7.1	No Data	No Data	No Data	<10	8.2	330	No Data
	07/23/1984	No Data	6.9	No Data	No Data	No Data	<10	6	345	No Data

[a] A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	Temp (deg C)	Th230 (pCi/L)	TOC[b] (mg/L)	U (μg/L)	U234 (pCi/L)	U238 (pCi/L)	V (μg/L)	Zn (μg/L)
82-45B	09/19/1983	10	No Data	No Data	21	No Data	No Data	<10	<20
	10/31/1983	12	No Data	No Data	28	No Data	No Data	<10	850
	04/18/1984	8	No Data	No Data	23	No Data	No Data	<50	160
	04/18/1984	8	No Data	No Data	33	No Data	No Data	<50	100
	05/21/1984	10	No Data	No Data	33	No Data	No Data	<50	80
	07/23/1984	12	No Data	No Data	25	No Data	No Data	<50	1400
	09/24/1984	13	No Data	No Data	19	No Data	No Data	<50	290
	10/29/1984	14	No Data	No Data	24	No Data	No Data	<50	380
	04/09/1985	10	No Data	No Data	19	No Data	No Data	<50	<50
	10/14/1985	12	No Data	No Data	20	No Data	No Data	<10	<5
	06/02/1986	11.	No Data	No Data	20	No Data	No Data	<50	<10
	10/20/1986	12.5	No Data	No Data	26	No Data	No Data	<50	No Data
	05/18/1987	11.	No Data	No Data	24	No Data	No Data	<50	No Data
	10/13/1987	11.	No Data	No Data	26	No Data	No Data	<50	No Data
	10/13/1987	11.	No Data	No Data	29	No Data	No Data	<50	No Data
	04/14/1988	8.5	No Data	No Data	26	No Data	No Data	<50	No Data
	04/15/1988	No Data	No Data	No Data	26	No Data	No Data	<50	No Data
	10/17/1988	11.8	No Data	No Data	290	No Data	No Data	<50	No Data
	10/18/1988	11.8	No Data	No Data	30	No Data	No Data	<50	No Data
	05/10/1989	8.9	No Data	No Data	42	No Data	No Data	<50	No Data
	10/18/1989	12.2	No Data	No Data	41	No Data	No Data	<50	No Data
	04/11/1990	8.9	No Data	No Data	24	No Data	No Data	<50	No Data
	10/17/1990	12.8	No Data	No Data	No Data	9.3	8.2	<50	No Data
	06/24/1991	8.1	No Data	No Data	No Data	6.4	5.1	<50	No Data
	10/20/1991	12.2	0.3	No Data	No Data	8.4	6.3	<10.00	No Data
	04/15/1992	8.2	0.22	No Data	No Data	10.4	5.1	<7.0	No Data
	04/15/1992	No Data	<0.16	No Data	No Data	9.7	5.4	<7.0	No Data
82-51	08/11/1982	14	No Data	No Data	27	No Data	No Data	<50	<50
	09/22/1982	12	No Data	No Data	36	No Data	No Data	<50	50
	10/19/1982	11	No Data	No Data	33	No Data	No Data	<50	<50
	11/16/1982	10	No Data	No Data	40	No Data	No Data	<50	<50
	04/30/1983	10	No Data	No Data	67	No Data	No Data	<50	<20
	05/29/1983	11	No Data	No Data	62	No Data	No Data	<10	<50
	09/19/1983	12	No Data	No Data	48	No Data	No Data	20	<20
	10/31/1983	9	No Data	No Data	56	No Data	No Data	10	250
	03/19/1984	13.5	No Data	No Data	54	No Data	No Data	<50	<100
	04/18/1984	9	No Data	No Data	65	No Data	No Data	<50	<100
	05/21/1984	12	No Data	No Data	61	No Data	No Data	<50	<50
	07/23/1984	11	No Data	No Data	53	No Data	No Data	<50	850

[a] A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "-" indicates an estimated value.
[b] Total organic carbon.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	^{3}H[b] (TU)	Ag (µg/L)	Al (µg/L)	Alkalinity (ppm)	Alpha (pCi/L)	As (µg/L)	Ba (µg/L)	Beta (pCi/L)	Ca (mg/L)
82-51	09/24/1984	No Data	No Data	No Data	363	No Data	<10	100	No Data	184
	10/29/1984	No Data	No Data	No Data	300	No Data	<10	<100	No Data	155
	10/14/1985	No Data	No Data	No Data	347	No Data	<10	100	No Data	171
	06/02/1986	No Data	No Data	No Data	345	No Data	5	140	No Data	241.
	10/20/1986	No Data	No Data	No Data	361	No Data	<5	No Data	No Data	186.
	05/18/1987	No Data	No Data	No Data	431	No Data	6	No Data	No Data	246.
	10/13/1987	No Data	No Data	No Data	373	22.0	5	No Data	No Data	No Data
	04/14/1988	No Data	No Data	No Data	418	54	<5	No Data	<26	No Data
	10/17/1988	No Data	No Data	No Data	376	32	<5	No Data	<10	No Data
	05/10/1989	No Data	No Data	No Data	379	72	<10	No Data	<32	No Data
	05/10/1989	No Data	No Data	No Data	379	64	<10	No Data	<32	No Data
	10/19/1989	No Data	No Data	No Data	347	38	<10	No Data	26	No Data
	10/19/1989	No Data	No Data	No Data	No Data	46	<10	No Data	20	No Data
	04/11/1990	No Data	No Data	No Data	318	<34	<10	No Data	<28	No Data
	04/11/1990	No Data	No Data	No Data	No Data	<34	<10	No Data	<28	No Data
	10/17/1990	No Data	No Data	No Data	313	<41	<10	No Data	No Data	No Data
	10/17/1990	No Data	No Data	No Data	No Data	45	<10	No Data	No Data	No Data
	06/24/1991	No Data	No Data	No Data	376	46	<10	No Data	No Data	No Data
	10/20/1991	No Data	No Data	No Data	156	40.	~4.20	No Data	No Data	No Data
	04/15/1992	No Data	No Data	No Data	365	<30	<2.0	No Data	No Data	No Data
82-52	08/11/1982	No Data	No Data	<100	335	No Data	22	100	No Data	159
	08/11/1982	No Data	No Data	<100	335	No Data	23	100	No Data	158
	09/22/1982	No Data	No Data	<10	325	No Data	28	99	No Data	140
	10/19/1982	No Data	No Data	<100	365	No Data	16	<100	No Data	133
	11/16/1982	No Data	No Data	<20	400	No Data	22	90	No Data	153
	04/30/1983	No Data	No Data	<10	450	No Data	20	200	No Data	240
	05/29/1983	No Data	No Data	10	360	No Data	<10	110	No Data	195
	07/21/1983	No Data	No Data	10	470	No Data	20	130	No Data	256
	09/19/1983	No Data	No Data	<100	445	No Data	20	100	No Data	189
	10/31/1983	No Data	No Data	<10	321	No Data	20	80	No Data	180
	05/21/1984	No Data	No Data	No Data	386	No Data	24	140	No Data	240
	07/23/1984	No Data	No Data	No Data	417	No Data	20	100	No Data	203
	09/24/1984	No Data	No Data	No Data	340	No Data	20	100	No Data	204
	04/09/1985	No Data	No Data	No Data	424	No Data	30	<100	No Data	217
	10/14/1985	No Data	No Data	No Data	360	No Data	21	100	No Data	182
	06/02/1986	No Data	No Data	No Data	147	No Data	26	130	No Data	239.
	10/20/1986	No Data	No Data	No Data	375	No Data	16	No Data	No Data	185.
	05/18/1987	No Data	No Data	No Data	442	No Data	19	No Data	No Data	242.
	05/18/1987	No Data	No Data	No Data	442	No Data	21	No Data	No Data	231.

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.
[b]Tritium in tritium units.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	Cd (µg/L)	Conductivity (µmhos/cm)	Cl (mg/L)	Cr (µg/L)	DO (mg/L)	Eh (mV)	F (mg/L)	Fe (µg/L)	Hg (µg/L)
82-51	09/24/1984	No Data	962	22	No Data	0.5	-45	No Data	2500	No Data
	10/29/1984	No Data	928	19	No Data	No Data	-80	No Data	2530	No Data
	10/14/1985	No Data	1148	23.3	No Data	No Data	-60	No Data	2310	No Data
	06/02/1986	No Data	1305.	49.6	No Data	No Data	75.	No Data	2200	No Data
	10/20/1986	No Data	900.	26.4	No Data	No Data	160.	No Data	No Data	No Data
	05/18/1987	No Data	1365.	44.6	No Data	No Data	15.	No Data	2300	No Data
	10/13/1987	No Data	1350.	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/14/1988	No Data	1540	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/17/1988	No Data	1430	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	05/10/1989	No Data	1674	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	05/10/1989	No Data	1674	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/19/1989	No Data	1470	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/19/1989	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/11/1990	No Data	1696	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/11/1990	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/17/1990	No Data	1388	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/17/1990	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	06/24/1991	No Data	1428	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/20/1991	No Data	1243	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/15/1992	No Data	1188	No Data	No Data	No Data	No Data	No Data	No Data	No Data
82-52	08/11/1982	No Data	920	29	No Data	No Data	-60	<1	1130	No Data
	08/11/1982	No Data	920	24	No Data	No Data	-60	<1	1150	No Data
	09/22/1982	No Data	8800	18	No Data	No Data	-50	No Data	1370	No Data
	10/19/1982	No Data	800	25	No Data	No Data	-50	No Data	1150	No Data
	11/16/1982	No Data	720	20	No Data	No Data	40	No Data	1350	No Data
	04/30/1983	No Data	1400	81	No Data	1.7	-20	No Data	2900	No Data
	05/29/1983	No Data	1020	51	No Data	No Data	No Data	No Data	40	No Data
	07/21/1983	No Data	1300	60	No Data	No Data	70	No Data	2360	No Data
	09/19/1983	No Data	1000	35	No Data	No Data	-50	No Data	1400	No Data
	10/31/1983	No Data	1000	29	No Data	No Data	-40	No Data	1200	No Data
	05/21/1984	No Data	1426	54	No Data	1.1	200	No Data	1900	No Data
	07/23/1984	No Data	1342	43	No Data	No Data	160	No Data	1900	No Data
	09/24/1984	No Data	1105	27	No Data	0.5	-40	No Data	1700	No Data
	04/09/1985	No Data	1418	61	No Data	No Data	No Data	No Data	2700	No Data
	10/14/1985	No Data	1188	27.8	No Data	No Data	-70	No Data	1880	No Data
	06/02/1986	No Data	1572.	56.8	No Data	No Data	-30.	No Data	2700	No Data
	10/20/1986	No Data	1000.	40.5	No Data	No Data	160.	No Data	No Data	No Data
	05/18/1987	No Data	1463.	49.6	No Data	No Data	20.	No Data	2100	No Data
	05/18/1987	No Data	1463.	51.0	No Data	No Data	20.	No Data	2000	No Data

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "-" indicates an estimated value.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	K (mg/L)	Mg (mg/L)	Mn (µg/L)	Mo (µg/L)	Na (mg/L)	NH_4-N (µg/L)	NO_3 (µg/L)	NO_3-N (µg/L)	Pb (µg/L)
82-51	09/24/1984	2.9	30.4	1500	<50	50.5	No Data	<5000	No Data	No Data
	10/29/1984	3.3	27.8	1580	60	49.2	No Data	<5000	No Data	No Data
	10/14/1985	3	31.0	1560	<10	52.4	No Data	<1000	No Data	No Data
	06/02/1986	3.3	31.	1700	<50	71.	No Data	<1000	No Data	No Data
	10/20/1986	3.3	35.	No Data	<50	56.	No Data	No Data	No Data	No Data
	05/18/1987	3.3	37.9	2010	<50	63.	No Data	<500	No Data	No Data
	10/13/1987	No Data	No Data	No Data	<50	No Data	No Data	<1000	No Data	No Data
	04/14/1988	No Data	No Data	No Data	<50	No Data	No Data	<200	No Data	No Data
	10/17/1988	No Data	No Data	No Data	<50	No Data	No Data	100	No Data	No Data
	05/10/1989	No Data	No Data	No Data	<10	No Data	No Data	<50	No Data	No Data
	05/10/1989	No Data	No Data	No Data	<10	No Data	No Data	<50	No Data	No Data
	10/19/1989	No Data	No Data	No Data	<10	No Data	No Data	40	No Data	No Data
	10/19/1989	No Data	No Data	No Data	<10	No Data	No Data	<40	No Data	No Data
	04/11/1990	No Data	No Data	No Data	<10	No Data	No Data	120	No Data	No Data
	04/11/1990	No Data	No Data	No Data	<10	No Data	No Data	120	No Data	No Data
	10/17/1990	No Data	No Data	No Data	<10	No Data	No Data	270	No Data	No Data
	10/17/1990	No Data	No Data	No Data	<10	No Data	No Data	180	No Data	No Data
	06/24/1991	No Data	No Data	No Data	<10	No Data	120	110	No Data	No Data
	10/20/1991	No Data	No Data	No Data	<18.00	No Data	No Data	30	No Data	No Data
	04/15/1992	No Data	No Data	No Data	<21.0	No Data	No Data	~124	No Data	No Data
82-52	08/11/1982	3	29	2080	<50	67	No Data	No Data	<4428	No Data
	08/11/1982	4	28	2070	<50	50	No Data	No Data	4428	No Data
	09/22/1982	3	28	2100	<50	50	No Data	<4428	No Data	No Data
	10/19/1982	4	27	1810	<50	51	No Data	<8856	No Data	No Data
	11/16/1982	3.5	27.8	2040	<100	50	No Data	No Data	<1000	No Data
	04/30/1983	4.2	48	3100	<10	90	No Data	No Data	No Data	No Data
	05/29/1983	4.0	36	2300	<10	70	No Data	<22140	No Data	No Data
	07/21/1983	46	43	2455000	<20	92	No Data	<2000	No Data	No Data
	09/19/1983	4	34	2500	<20	70	No Data	<5000	No Data	No Data
	10/31/1983	4.2	32	2500	<10	65	No Data	<5000	No Data	No Data
	05/21/1984	4.22	38	1900	<50	67	No Data	<2000	No Data	No Data
	07/23/1984	3.1	36	2100	<50	66	No Data	<100	No Data	No Data
	09/24/1984	3.2	34.5	2100	<50	53.4	No Data	<5000	No Data	No Data
	04/09/1985	3.94	44.9	2620	<50	74.9	No Data	<1000	No Data	No Data
	10/14/1985	3	34.2	2160	<10	64.6	No Data	3000	No Data	No Data
	06/02/1986	3.6	41.0	2800	<50	72.4	No Data	<1000	No Data	No Data
	10/20/1986	4.0	35.	No Data	<50	78.	No Data	No Data	No Data	No Data
	05/18/1987	3.80	41.2	2830	<50	81.	No Data	<500	No Data	No Data
	05/18/1987	3.80	38.6	2650	<50	78.	No Data	<500	No Data	No Data

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	Pb210 (pCi/L)	pH	PO_4 (mg/L)	Ra226 (pCi/L)	Ra228 (pCi/L)	Se (µg/L)	Si (mg/L)	SO_4 (mg/L)	Total Coliform (colonies/100 mL)
82-51	09/24/1984	No Data	7.0	No Data	No Data	No Data	<10	8	270	No Data
	10/29/1984	No Data	6.7	No Data	No Data	No Data	<10	8.0	260	No Data
	10/14/1985	No Data	7.0	<0.1	No Data	No Data	<5	7.8	296	No Data
	06/02/1986	No Data	7.35	No Data	No Data	No Data	<5	8.7	405.	No Data
	10/20/1986	No Data	6.6	No Data	No Data	No Data	<5	No Data	384.	No Data
	05/18/1987	No Data	6.9	No Data	No Data	No Data	<5	No Data	416.	No Data
	10/13/1987	No Data	6.9	No Data	0.3	<1.	<5	No Data	No Data	No Data
	04/14/1988	No Data	6.97	No Data	0.3	<0.7	<5	No Data	No Data	No Data
	10/17/1988	No Data	6.75	No Data	0.5	<1.0	<5	No Data	No Data	No Data
	05/10/1989	No Data	6.92	No Data	0.4	<1.0	<5	No Data	No Data	No Data
	05/10/1989	No Data	6.92	No Data	0.4	<1.0	<5	No Data	No Data	No Data
	10/19/1989	No Data	6.74	No Data	0.2	<2.0	<5	No Data	No Data	No Data
	10/19/1989	No Data	No Data	No Data	0.3	<2.0	<5	No Data	No Data	No Data
	04/11/1990	No Data	6.76	No Data	0.4	<1	<5	No Data	No Data	No Data
	04/11/1990	No Data	No Data	No Data	0.3	<1	<5	No Data	No Data	No Data
	10/17/1990	No Data	6.97	No Data	<1.5	<2	<5	No Data	No Data	No Data
	10/17/1990	No Data	No Data	No Data	<1.4	<2	<5	No Data	No Data	No Data
	06/24/1991	No Data	6.80	No Data	0.2	<2	<5	No Data	No Data	No Data
	10/20/1991	No Data	6.92	No Data	0.3	<4	<2.00	No Data	No Data	No Data
	04/15/1992	No Data	7.72	No Data	0.2	<2	<2.0	No Data	No Data	No Data
82-52	08/11/1982	No Data	7.0	No Data	No Data	No Data	<10	7.4	323	No Data
	08/11/1982	No Data	7.0	No Data	<2	No Data	<10	7.8	233	No Data
	09/22/1982	No Data	6.9	No Data	<2	No Data	<10	8.22	221	No Data
	10/19/1982	No Data	7.1	No Data	<2	No Data	<10	7.0	333	No Data
	11/16/1982	No Data	7.3	No Data	<2	No Data	<20	8.26	241	No Data
	04/30/1983	No Data	7.2	<.153	No Data	No Data	<10	8.3	530	No Data
	05/29/1983	No Data	7.8	<0.050	No Data	No Data	<10	8.7	390	No Data
	07/21/1983	No Data	7.1	No Data	No Data	No Data	<10	8.0	500	No Data
	09/19/1983	No Data	7.3	No Data	<2	No Data	<10	7.6	330	No Data
	10/31/1983	No Data	7.9	No Data	<2.0	No Data	<10	7.8	310	No Data
	05/21/1984	No Data	7.0	No Data	No Data	No Data	<10	8.9	390	No Data
	07/23/1984	No Data	7.3	No Data	No Data	No Data	<10	7	367	No Data
	09/24/1984	No Data	7.25	No Data	No Data	No Data	<10	8	310	No Data
	04/09/1985	No Data	6.6	No Data	<1	No Data	<5	8.3	410	No Data
	10/14/1985	No Data	7.0	<0.1	<1.0	No Data	<5	8.1	310	No Data
	06/02/1986	No Data	7.2	No Data	<.2	No Data	<5	10.	406.	No Data
	10/20/1986	No Data	6.9	No Data	1.1	No Data	<5	No Data	421.	No Data
	05/18/1987	No Data	7.1	No Data	No Data	No Data	<5	No Data	445.	No Data
	05/18/1987	No Data	7.1	No Data	No Data	No Data	<5	No Data	443.	No Data

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "-" indicates an estimated value.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	Temp (deg C)	Th230 (pCi/L)	TOC[b] (mg/L)	U (μg/L)	U234 (pCi/L)	U238 (pCi/L)	V (μg/L)	Zn (μg/L)
82-51	09/24/1984	10	No Data	No Data	35	No Data	No Data	50	90
	10/29/1984	11	No Data	No Data	41	No Data	No Data	<50	320
	10/14/1985	11	No Data	No Data	38	No Data	No Data	10	<5
	06/02/1986	8.	No Data	No Data	48	No Data	No Data	<50	<10
	10/20/1986	11.5	No Data	No Data	48	No Data	No Data	<50	No Data
	05/18/1987	11.	No Data	No Data	61	No Data	No Data	<50	No Data
	10/13/1987	9.5	No Data	No Data	47	No Data	No Data	<50	No Data
	04/14/1988	10.3	No Data	No Data	65	No Data	No Data	<50	No Data
	10/17/1988	10.0	No Data	No Data	52	No Data	No Data	56	No Data
	05/10/1989	10.4	No Data	No Data	82	No Data	No Data	<50	No Data
	05/10/1989	10.4	No Data	No Data	81	No Data	No Data	<50	No Data
	10/19/1989	10.1	No Data	No Data	63	No Data	No Data	<50	No Data
	10/19/1989	No Data	No Data	No Data	62	No Data	No Data	<50	No Data
	04/11/1990	10.6	No Data	No Data	63	No Data	No Data	<50	No Data
	04/11/1990	No Data	No Data	No Data	62	No Data	No Data	<50	No Data
	10/17/1990	10.5	No Data	No Data	No Data	17.7	16.0	<50	No Data
	10/17/1990	No Data	No Data	No Data	No Data	17.8	16.6	<50	No Data
	06/24/1991	10.6	No Data	No Data	No Data	21.1	19.7	<50	No Data
	10/20/1991	10.5	0.4	No Data	No Data	18.2	16.6	<10.00	No Data
	04/15/1992	10.4	0.41	No Data	No Data	16.7	15.6	-8.2	No Data
82-52	08/11/1982	15	No Data	No Data	11	No Data	No Data	<50	<50
	08/11/1982	15	No Data	No Data	24	No Data	No Data	50	<50
	09/22/1982	14	No Data	No Data	56	No Data	No Data	<50	<50
	10/19/1982	10	No Data	No Data	43	No Data	No Data	<50	<50
	11/16/1982	7.5	No Data	No Data	48	No Data	No Data	<50	50
	04/30/1983	9	No Data	No Data	84	No Data	No Data	<50	30
	05/29/1983	11	No Data	No Data	83	No Data	No Data	80	70
	07/21/1983	16	No Data	No Data	100	No Data	No Data	10	<50
	09/19/1983	13	No Data	No Data	81	No Data	No Data	20	<20
	10/31/1983	10	No Data	No Data	73	No Data	No Data	20	50
	05/21/1984	13	No Data	No Data	85	No Data	No Data	<50	60
	07/23/1984	14	No Data	No Data	79	No Data	No Data	<50	50
	09/24/1984	10	No Data	No Data	100	No Data	No Data	<50	70
	04/09/1985	11	No Data	No Data	81	No Data	No Data	<50	<50
	10/14/1985	12	No Data	No Data	59	No Data	No Data	10	<5
	06/02/1986	12.	No Data	No Data	75	No Data	No Data	100	<10
	10/20/1986	11.5	No Data	No Data	100	No Data	No Data	905	No Data
	05/18/1987	12.	No Data	No Data	95	No Data	No Data	<50	No Data
	05/18/1987	12.	No Data	No Data	91	No Data	No Data	<50	No Data

[a] A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.
[b] Total organic carbon.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	^3H[b] (TU)	Ag (μg/L)	Al (μg/L)	Alkalinity (ppm)	Alpha (pCi/L)	As (μg/L)	Ba (μg/L)	Beta (pCi/L)	Ca (mg/L)
82-52	10/13/1987	No Data	No Data	No Data	381	46.0	16	No Data	No Data	No Data
	04/14/1988	No Data	No Data	No Data	353	77	13	No Data	<26	No Data
	10/17/1988	No Data	No Data	No Data	371	40	17	No Data	21	No Data
	05/10/1989	No Data	No Data	No Data	411	75	13	No Data	34	No Data
	10/18/1989	No Data	No Data	No Data	369	68	<10	No Data	39	No Data
	04/11/1990	No Data	No Data	No Data	386	36	<10	No Data	<28	No Data
	10/17/1990	No Data	No Data	No Data	340	<44	16	No Data	No Data	No Data
	06/24/1991	No Data	No Data	No Data	387	49	21	No Data	No Data	No Data
	10/20/1991	No Data	No Data	No Data	No Data	60.	24.40	No Data	No Data	No Data
	04/15/1992	No Data	No Data	No Data	394	<60	17.6	No Data	No Data	No Data
82-55	08/11/1982	No Data	No Data	<100	286	No Data	<10	<100	No Data	73
	09/22/1982	No Data	No Data	10	280	No Data	<10	91	No Data	127
	10/19/1982	No Data	No Data	<100	345	No Data	<10	120	No Data	127
	11/16/1982	No Data	No Data	<20	385	No Data	<20	110	No Data	182
	04/30/1983	No Data	No Data	<10	350	No Data	<10	<100	No Data	140
	05/29/1983	No Data	No Data	<10	338	No Data	<10	70	No Data	125
86-78	06/24/1991	No Data	No Data	No Data	248	No Data	No Data	No Data	No Data	No Data
	10/20/1991	No Data	No Data	No Data	111	No Data	No Data	No Data	No Data	No Data
88-87	10/20/1991	No Data	No Data	No Data	396	No Data	No Data	No Data	No Data	No Data

[a] A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.
[b] Tritium in tritium units.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	Cd (µg/L)	Conductivity (µmhos/cm)	Cl (mg/L)	Cr (µg/L)	DO (mg/L)	Eh (mV)	F (mg/L)	Fe (µg/L)	Hg (µg/L)
82-52	10/13/1987	No Data	1470.	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/14/1988	No Data	1639	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/17/1988	No Data	1530	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	05/10/1989	No Data	1754	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/18/1989	No Data	1430	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/11/1990	No Data	1835	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/17/1990	No Data	1462	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	06/24/1991	No Data	1565	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/20/1991	No Data	1361	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/15/1992	No Data	1365	No Data	No Data	No Data	No Data	No Data	No Data	No Data
82-55	08/11/1982	No Data	890	33	No Data	No Data	-125	<1	<50	No Data
	09/22/1982	No Data	1090	52	No Data	No Data	220	No Data	<50	No Data
	10/19/1982	No Data	1200	81	No Data	No Data	-50	No Data	250	No Data
	11/16/1982	No Data	1140	77	No Data	No Data	20	No Data	880	No Data
	04/30/1983	No Data	1200	62	No Data	2.4	160	No Data	<200	No Data
	05/29/1983	No Data	1071	35	No Data	No Data	No Data	No Data	70	No Data
86-78	06/24/1991	No Data	1751	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/20/1991	No Data	1835	No Data	No Data	No Data	No Data	No Data	No Data	No Data
88-87	10/20/1991	No Data	1848	No Data	No Data	No Data	No Data	No Data	No Data	No Data

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	K (mg/L)	Mg (mg/L)	Mn (µg/L)	Mo (µg/L)	Na (mg/L)	NH_4-N (µg/L)	NO_3 (µg/L)	NO_3-N (µg/L)	Pb (µg/L)
82-52	10/13/1987	No Data	No Data	No Data	<50	No Data	No Data	<1000	No Data	No Data
	04/14/1988	No Data	No Data	No Data	<50	No Data	No Data	<200	No Data	No Data
	10/17/1988	No Data	No Data	No Data	<50	No Data	No Data	200	No Data	No Data
	05/10/1989	No Data	No Data	No Data	10	No Data	No Data	140	No Data	No Data
	10/18/1989	No Data	No Data	No Data	<10	No Data	No Data	690	No Data	No Data
	04/11/1990	No Data	No Data	No Data	<10	No Data	No Data	130	No Data	No Data
	10/17/1990	No Data	No Data	No Data	<10	No Data	No Data	510	No Data	No Data
	06/24/1991	No Data	No Data	No Data	<10	No Data	640	120	No Data	No Data
	10/20/1991	No Data	No Data	No Data	<18.00	No Data	No Data	60	No Data	No Data
	04/15/1992	No Data	No Data	No Data	<21.0	No Data	No Data	~332	No Data	No Data
82-55	08/11/1982	11	18	1300	110	162	No Data	No Data	<4428	No Data
	09/22/1982	16	28	4700	260	159	No Data	<4428	No Data	No Data
	10/19/1982	15	36	4750	140	150	No Data	<8856	No Data	No Data
	11/16/1982	17.	42.5	4680	100	140	No Data	No Data	<1000	No Data
	04/30/1983	12	36	2700	120	120	No Data	No Data	No Data	No Data
	05/29/1983	11.8	28	3100	140	115	No Data	<22140	No Data	No Data
86-78	06/24/1991	No Data	No Data	No Data	No Data	No Data	No Data	920	No Data	No Data
	10/20/1991	No Data	No Data	No Data	No Data	No Data	No Data	2910	No Data	No Data
88-87	10/20/1991	No Data	No Data	No Data	No Data	No Data	No Data	5450	No Data	No Data

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	Pb210 (pCi/L)	pH	PO_4 (mg/L)	Ra226 (pCi/L)	Ra228 (pCi/L)	Se (μg/L)	Si (mg/L)	SO_4 (mg/L)	Total Coliform (colonies/100 mL)
82-52	10/13/1987	No Data	6.8	No Data	<0.1	<1.	<5	No Data	No Data	No Data
	04/14/1988	No Data	6.86	No Data	0.2	<0.9	<5	No Data	No Data	No Data
	10/17/1988	No Data	6.95	No Data	0.7	<1.0	<5	No Data	No Data	No Data
	05/10/1989	No Data	6.98	No Data	0.3	<1.0	<5	No Data	No Data	No Data
	10/18/1989	No Data	6.80	No Data	0.7	<2.0	<5	No Data	No Data	No Data
	04/11/1990	No Data	6.86	No Data	0.1	<1	<5	No Data	No Data	No Data
	10/17/1990	No Data	6.92	No Data	<1.4	<2	<5	No Data	No Data	No Data
	06/24/1991	No Data	6.85	No Data	0.2	<2	<5	No Data	No Data	No Data
	10/20/1991	No Data	7.20	No Data	0.3	<3	<2.00	No Data	No Data	No Data
	04/15/1992	No Data	6.93	No Data	0.2	<2	<2.0	No Data	No Data	No Data
82-55	08/11/1982	No Data	7.8	No Data	No Data	No Data	<10	5.7	300	No Data
	09/22/1982	No Data	7.3	No Data	3	No Data	11	7.33	338	No Data
	10/19/1982	No Data	7.1	No Data	4	No Data	26	6.9	568	No Data
	11/16/1982	No Data	7.1	No Data	<2	No Data	<20	9.35	505	No Data
	04/30/1983	No Data	7.3	<.153	No Data	No Data	20	7.0	340	No Data
	05/29/1983	No Data	7.5	<0.050	No Data	No Data	20	7.4	280	No Data
86-78	06/24/1991	No Data	6.87	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/20/1991	No Data	6.76	No Data	No Data	No Data	No Data	No Data	No Data	No Data
88-87	10/20/1991	No Data	7.18	No Data	No Data	No Data	No Data	No Data	No Data	No Data

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.

Monticello Alluvial Aquifer Historical Data (August 1982 - April 1992)[a]

Sample Location	Sample Date	Temp (deg C)	Th230 (pCi/L)	TOC[b] (mg/L)	U (µg/L)	U234 (pCi/L)	U238 (pCi/L)	V (µg/L)	Zn (µg/L)
82-52	10/13/1987	10.	No Data	No Data	73	No Data	No Data	<50	No Data
	04/14/1988	11.1	No Data	No Data	93	No Data	No Data	<50	No Data
	10/17/1988	10.6	No Data	No Data	81	No Data	No Data	<50	No Data
	05/10/1989	11.1	No Data	No Data	120	No Data	No Data	<50	No Data
	10/18/1989	13.0	No Data	No Data	106	No Data	No Data	126	No Data
	04/11/1990	11.2	No Data	No Data	90	No Data	No Data	<50	No Data
	10/17/1990	11.5	No Data	No Data	No Data	27.9	25.8	<50	No Data
	06/24/1991	10.9	No Data	No Data	No Data	28.5	27.0	<50	No Data
	10/20/1991	10.5	0.2	No Data	No Data	30.1	32.4	<10.00	No Data
	04/15/1992	11.1	0.4	No Data	No Data	34.8	32.4	<7.0	No Data
82-55	08/11/1982	13	No Data	No Data	120	No Data	No Data	<50	110
	09/22/1982	13	No Data	No Data	323	No Data	No Data	<50	<50
	10/19/1982	11	No Data	No Data	339	No Data	No Data	<50	<50
	11/16/1982	9	No Data	No Data	557	No Data	No Data	<50	<50
	04/30/1983	8	No Data	No Data	370	No Data	No Data	<50	20
	05/29/1983	12	No Data	No Data	260	No Data	No Data	<10	<50
86-78	06/24/1991	6.1	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/20/1991	10.1	No Data	No Data	No Data	No Data	No Data	No Data	No Data
88-87	10/20/1991	11.7	No Data	No Data	No Data	No Data	No Data	No Data	No Data

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.
[b]Total organic carbon.

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Annex B–3

July 1983—October 1991 Bedrock Groundwater Sampling Results

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Monticello Bedrock Groundwaters Historical Data (July 1983 - October 1991)[a]

Sample Location	Lithologic Zone	Sample Date	3H[b] (TU)	Ag (μg/L)	Al (μg/L)	Alkalinity (ppm)	Alpha (pCi/L)	As (μg/L)	Ba (μg/L)	Beta (pCi/L)
83-70	Kd/Kbc	07/21/1983	No Data	No Data	150	208	No Data	<10	30	No Data
		09/19/1983	No Data	No Data	<100	219	No Data	<10	<50	No Data
		10/31/1983	<2	No Data	10	202	No Data	<10	<50	No Data
		05/21/1984	<2	No Data	No Data	229	No Data	<10	<100	No Data
		07/23/1984	No Data	No Data	No Data	215	No Data	<10	<100	No Data
		09/24/1984	No Data	No Data	No Data	217	No Data	<10	<100	No Data
		10/29/1984	No Data	No Data	No Data	230	No Data	<10	<100	No Data
		10/14/1985	No Data	No Data	No Data	243	No Data	<10	<100	No Data
		06/02/1986	No Data	No Data	No Data	225	No Data	<5	<100	No Data
		10/20/1986	No Data	No Data	No Data	113	No Data	<5	No Data	No Data
		10/20/1986	No Data	No Data	No Data	113	No Data	<5	No Data	No Data
83-71	Kd/Kbc	07/21/1983	No Data	No Data	70	208	No Data	<10	30	No Data
		09/19/1983	No Data	No Data	<100	227	No Data	<10	<50	No Data
		10/31/1983	No Data	No Data	20	212	No Data	<10	<50	No Data
		05/21/1984	No Data	No Data	No Data	219	No Data	<10	<100	No Data
		07/23/1984	No Data	No Data	No Data	272	No Data	<10	<100	No Data
		09/24/1984	No Data	No Data	No Data	205	No Data	<10	<100	No Data
		10/29/1984	No Data	No Data	No Data	215	No Data	<10	<100	No Data
		10/14/1985	No Data	No Data	No Data	207	No Data	<10	<100	No Data
		06/02/1986	No Data	No Data	No Data	252	No Data	<5	<100	No Data
		10/20/1986	No Data	No Data	No Data	96	No Data	<5	No Data	No Data
83-72	Kd	05/21/1984	No Data	No Data	No Data	319	No Data	13	600	No Data
		09/24/1984	No Data	No Data	No Data	363	No Data	<10	700	No Data
		10/14/1985	No Data	No Data	No Data	327	No Data	<10	<100	No Data
		06/02/1986	No Data	No Data	No Data	350	No Data	8	620	No Data
		10/20/1986	No Data	No Data	No Data	234	No Data	6	No Data	No Data
83-73	Kd/Kbc	07/21/1983	No Data	No Data	30	214	No Data	<10	120	No Data
		09/19/1983	No Data	No Data	<100	228	No Data	<10	100	No Data
		10/31/1983	No Data	No Data	20	210	No Data	<10	<50	No Data
		05/21/1984	No Data	No Data	No Data	224	No Data	<10	180	No Data
		07/23/1984	No Data	No Data	No Data	206	No Data	<10	<100	No Data
		09/24/1984	No Data	No Data	No Data	223	No Data	<10	100	No Data
		10/29/1984	No Data	No Data	No Data	212	No Data	<10	<100	No Data
		10/14/1985	No Data	No Data	No Data	216	No Data	<10	100	No Data
		06/02/1986	No Data	No Data	No Data	230	No Data	<5	100	No Data
		10/20/1986	No Data	No Data	No Data	215	No Data	<5	No Data	No Data
84-74	Kbc	09/24/1984	No Data	No Data	No Data	220	No Data	<10	<100	No Data
		10/29/1984	No Data	<10	No Data	218	<15	<10	<100	<50
		04/09/1985	No Data	<10	No Data	230	<8	<10	<100	5

[a] A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.
[b] Tritium in tritium units.

Monticello Bedrock Groundwaters Historical Data (July 1983 - October 1991)[a]

Sample Location	Lithologic Zone	Sample Date	Ca (mg/L)	Cd (µg/L)	Conductivity (µmhos/cm)	Cl (mg/L)	Cr (µg/L)	DO (mg/L)	Eh (mV)	F (mg/L)
83-70	Kd/Kbc	07/21/1983	60	No Data	610	3	No Data	No Data	No Data	No Data
		09/19/1983	58	No Data	410	2	No Data	No Data	150	No Data
		10/31/1983	56	No Data	510	3	No Data	No Data	70	No Data
		05/21/1984	69.1	No Data	567	3	No Data	.2	-120	No Data
		07/23/1984	56	No Data	558	3.4	No Data	.4	-120	No Data
		09/24/1984	54.2	No Data	509	4	No Data	0.35	50	No Data
		10/29/1984	55.8	No Data	455	3	No Data	No Data	120	No Data
		10/14/1985	53.6	No Data	500	3.0	No Data	No Data	20	No Data
		06/02/1986	56.	No Data	559.	2.8	No Data	No Data	-20.	No Data
		10/20/1986	53.	No Data	113.	3.3	No Data	No Data	10.	No Data
		10/20/1986	52.	No Data	500.	3.4	No Data	No Data	10.	No Data
83-71	Kd/Kbc	07/21/1983	60	No Data	580	3	No Data	No Data	60	No Data
		09/19/1983	60	No Data	390	2	No Data	No Data	-10	No Data
		10/31/1983	58	No Data	490	3	No Data	No Data	10	No Data
		05/21/1984	68.1	No Data	566	5	No Data	.3	-120	No Data
		07/23/1984	58	No Data	540	3.8	No Data	0.3	110	No Data
		09/24/1984	57.5	No Data	494	3	No Data	0.3	50	No Data
		10/29/1984	61.4	No Data	449	3	No Data	No Data	120	No Data
		10/14/1985	53.6	No Data	540	2.5	No Data	No Data	50	No Data
		06/02/1986	56.	No Data	576.	2.6	No Data	No Data	40.	No Data
		10/20/1986	54.	No Data	450.	3.1	No Data	No Data	155.	No Data
83-72	Kd	05/21/1984	7.98	No Data	780	44	No Data	No Data	No Data	No Data
		09/24/1984	5.6	No Data	767	23	No Data	No Data	-80	No Data
		10/14/1985	8.10	No Data	878	52.8	No Data	No Data	130	No Data
		06/02/1986	6.6	No Data	780.	45.6	No Data	No Data	-55.	No Data
		10/20/1986	8.0	No Data	600.	55.3	No Data	No Data	100.	No Data
83-73	Kd/Kbc	07/21/1983	57	No Data	580	4	No Data	No Data	-40	No Data
		09/19/1983	54	No Data	410	3	No Data	No Data	180	No Data
		10/31/1983	57	No Data	480	3	No Data	No Data	40	No Data
		05/21/1984	38.3	No Data	627	5	No Data	.6	-140	No Data
		07/23/1984	58	No Data	540	4.0	No Data	0.3	-50	No Data
		09/24/1984	50.6	No Data	497	4	No Data	1.5	-60	No Data
		10/29/1984	49.7	No Data	475	3	No Data	No Data	130	No Data
		10/14/1985	42.2	No Data	563	3.5	No Data	No Data	150	No Data
		06/02/1986	44.	No Data	603.	3.8	No Data	No Data	160.	No Data
		10/20/1986	60.	No Data	400.	3.1	No Data	No Data	10.	No Data
84-74	Kbc	09/24/1984	45.4	No Data	542	4	No Data	0.4	130	No Data
		10/29/1984	46.6	<2	503	4	<10	0.8	20	0.22
		04/09/1985	46.4	<1	496	4	<10	No Data	No Data	0.2

[a] A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.

Monticello Bedrock Groundwaters Historical Data (July 1983 - October 1991)[a]

Sample Location	Lithologic Zone	Sample Date	Fe (μg/L)	Hg (μg/L)	K (mg/L)	Mg (mg/L)	Mn (μg/L)	Mo (μg/L)	Na (mg/L)	NH_4-N (μg/L)
83-70	Kd/Kbc	07/21/1983	<50	No Data	3.6	12	265000	<20	58	No Data
		09/19/1983	100	No Data	4	11	300	<20	56	No Data
		10/31/1983	100	No Data	3.4	11	300	<10	57	No Data
		05/21/1984	200	No Data	2.66	10	200	<50	54	No Data
		07/23/1984	<500	No Data	2.6	11	<500	<50	61	No Data
		09/24/1984	<500	No Data	3.0	11.4	<500	<50	55.6	No Data
		10/29/1984	280	No Data	3.1	10.8	300	<50	51.9	No Data
		10/14/1985	440	No Data	2	12.4	250	<10	51.6	No Data
		06/02/1986	180	No Data	2.8	12.	270	<50	54.	No Data
		10/20/1986	No Data	No Data	2.7	10.	No Data	<50	57.	No Data
		10/20/1986	No Data	No Data	2.7	10.	No Data	<50	58.	No Data
83-71	Kd/Kbc	07/21/1983	80	No Data	3.6	11.5	265000	<20	55	No Data
		09/19/1983	100	No Data	4	11	300	<20	56	No Data
		10/31/1983	<100	No Data	3.6	11	300	<10	58	No Data
		05/21/1984	200	No Data	2.72	10	200	<50	53	No Data
		07/23/1984	<500	No Data	2.7	12	<500	<50	51	No Data
		09/24/1984	<500	No Data	3.3	11.4	<500	<50	55.0	No Data
		10/29/1984	290	No Data	2.9	13.8	270	<50	54.3	No Data
		10/14/1985	220	No Data	2	12.4	270	<10	51.9	No Data
		06/02/1986	160	No Data	3.0	12.	280	<50	61.	No Data
		10/20/1986	No Data	No Data	2.7	11.	No Data	<50	54.	No Data
83-72	Kd	05/21/1984	100	No Data	4.86	3.3	<100	<50	169	No Data
		09/24/1984	<500	No Data	4.9	4.0	<500	<50	183	No Data
		10/14/1985	<30	No Data	4	4.60	<10	<10	166	No Data
		06/02/1986	46	No Data	4.6	3.8	<10	<50	178.	No Data
		10/20/1986	No Data	No Data	5.0	3.8	No Data	<50	159.	No Data
83-73	Kd/Kbc	07/21/1983	80	No Data	3.8	12	250000	<20	65	No Data
		09/19/1983	100	No Data	4	11	300	<20	64	No Data
		10/31/1983	200	No Data	3.5	11	300	<10	57	No Data
		05/21/1984	100	No Data	3.42	8.1	100	<50	82	No Data
		07/23/1984	<500	No Data	2.7	11	<500	<50	57	No Data
		09/24/1984	<500	No Data	4.0	10.9	<500	<50	57.6	No Data
		10/29/1984	<100	No Data	3.3	10.5	240	<50	63.1	No Data
		10/14/1985	<30	No Data	3	11.5	130	<10	70.3	No Data
		06/02/1986	<30	No Data	3.3	11.	160	<50	70.	No Data
		10/20/1986	No Data	No Data	3.0	11.	No Data	<50	58.	No Data
84-74	Kbc	09/24/1984	<500	No Data	3.0	11.8	<500	<50	66.9	No Data
		10/29/1984	120	<1	3.3	11.4	180	<50	77.3	No Data
		04/09/1985	200	<.2	3.23	11.65	160	<50	71.0	No Data

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.

Monticello Bedrock Groundwaters Historical Data (July 1983 - October 1991)[a]

Sample Location	Lithologic Zone	Sample Date	NO_3 (μg/L)	NO_3-N (μg/L)	Pb (μg/L)	Pb210 (pCi/L)	pH	PO_4 (mg/L)	Ra226 (pCi/L)	Ra228 (pCi/L)
83-70	Kd/Kbc	07/21/1983	2000	No Data	No Data	No Data	7.5	No Data	No Data	No Data
		09/19/1983	<5000	No Data	No Data	No Data	7.9	No Data	<2	No Data
		10/31/1983	<5000	No Data	No Data	No Data	7.9	No Data	No Data	No Data
		05/21/1984	<2000	No Data	No Data	No Data	7.6	No Data	No Data	No Data
		07/23/1984	<100	No Data	No Data	No Data	7.9	No Data	No Data	No Data
		09/24/1984	<5000	No Data	No Data	No Data	7.65	No Data	No Data	No Data
		10/29/1984	<5000	No Data	No Data	No Data	7.1	No Data	No Data	No Data
		10/14/1985	<1000	No Data	No Data	No Data	7.3	<0.1	No Data	No Data
		06/02/1986	<1000	No Data	No Data	No Data	8.1	No Data	No Data	No Data
		10/20/1986	No Data	No Data	No Data	No Data	6.8	No Data	No Data	No Data
		10/20/1986	No Data	No Data	No Data	No Data	6.8	No Data	No Data	No Data
83-71	Kd/Kbc	07/21/1983	2000	No Data	No Data	No Data	7.9	No Data	No Data	No Data
		09/19/1983	<5000	No Data	No Data	No Data	7.8	No Data	<2.0	No Data
		10/31/1983	<5000	No Data	No Data	No Data	7.6	No Data	No Data	No Data
		05/21/1984	<2000	No Data	No Data	No Data	7.5	No Data	No Data	No Data
		07/23/1984	<100	No Data	No Data	No Data	7.9	No Data	No Data	No Data
		09/24/1984	<5000	No Data	No Data	No Data	6.7	No Data	No Data	No Data
		10/29/1984	<5000	No Data	No Data	No Data	6.7	No Data	No Data	No Data
		10/14/1985	<1000	No Data	No Data	No Data	7.3	<0.1	No Data	No Data
		06/02/1986	<1000	No Data	No Data	No Data	7.9	No Data	No Data	No Data
		10/20/1986	No Data	No Data	No Data	No Data	6.6	No Data	No Data	No Data
83-72	Kd	05/21/1984	<2000	No Data	No Data	No Data	8.7	No Data	No Data	No Data
		09/24/1984	<5000	No Data	No Data	No Data	8.7	No Data	No Data	No Data
		10/14/1985	12000	No Data	No Data	No Data	8.7	<0.1	No Data	No Data
		06/02/1986	16000	No Data	No Data	No Data	9.6	No Data	No Data	No Data
		10/20/1986	No Data	No Data	No Data	No Data	8.45	No Data	No Data	No Data
83-73	Kd/Kbc	07/21/1983	2000	No Data	No Data	No Data	7.6	No Data	No Data	No Data
		09/19/1983	<5000	No Data	No Data	No Data	7.9	No Data	2.0	No Data
		10/31/1983	<5000	No Data	No Data	No Data	7.7	No Data	No Data	No Data
		05/21/1984	<2000	No Data	No Data	No Data	6.1	No Data	No Data	No Data
		07/23/1984	<100	No Data	No Data	No Data	8.0	No Data	No Data	No Data
		09/24/1984	<5000	No Data	No Data	No Data	7.7	No Data	No Data	No Data
		10/29/1984	<5000	No Data	No Data	No Data	6.7	No Data	No Data	No Data
		10/14/1985	<1000	No Data	No Data	No Data	7.5	<0.1	No Data	No Data
		06/02/1986	<1000	No Data	No Data	No Data	8.1	No Data	No Data	No Data
		10/20/1986	No Data	No Data	No Data	No Data	7.5	No Data	No Data	No Data
84-74	Kbc	09/24/1984	<5000	No Data	No Data	<1.5	7.7	No Data	<2	No Data
		10/29/1984	<5000	No Data	<10	<1.5	7.8	No Data	<2	No Data
		04/09/1985	<1000	No Data	<10	No Data	7.0	No Data	<1	No Data

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.

Monticello Bedrock Groundwaters Historical Data (July 1983 - October 1991)[a]

Sample Location	Lithologic Zone	Sample Date	Se (μg/L)	Si (mg/L)	SO_4 (mg/L)	Total Coliform (colonies/100 mL)	Temp (deg C)	Th230 (pCi/L)	TOC[b] (mg/L)	U (μg/L)
83-70	Kd/Kbc	07/21/1983	<10	3.8	100	No Data	14	No Data	No Data	<1
		09/19/1983	10	3.8	92	No Data	13	No Data	No Data	2
		10/31/1983	<10	3.7	100	No Data	9	No Data	No Data	<1
		05/21/1984	<10	4.2	99	No Data	14	No Data	No Data	<1
		07/23/1984	<10	4	094	No Data	13	No Data	No Data	1
		09/24/1984	<10	5	98	No Data	9	No Data	No Data	<1
		10/29/1984	<10	4.1	100	No Data	9	No Data	No Data	.5
		10/14/1985	<5	3.7	92.0	No Data	11	No Data	No Data	<1
		06/02/1986	<5	7.9	102.	No Data	11.5	No Data	No Data	<3
		10/20/1986	<5	No Data	101.	No Data	13.	No Data	No Data	<1
		10/20/1986	<5	No Data	99.9	No Data	13.	No Data	No Data	<1
83-71	Kd/Kbc	07/21/1983	<10	4.0	110	No Data	17	No Data	No Data	<1
		09/19/1983	<10	4.0	97	No Data	11	No Data	No Data	<1
		10/31/1983	<10	3.8	100	No Data	12	No Data	No Data	<1
		05/21/1984	<10	4.3	99	No Data	16	No Data	No Data	<1
		07/23/1984	<10	4	094	No Data	12	No Data	No Data	<1
		09/24/1984	<10	4	100	No Data	10	No Data	No Data	1
		10/29/1984	<10	4.0	100	No Data	9	No Data	No Data	<.5
		10/14/1985	<5	3.9	93.4	No Data	11	No Data	No Data	<1
		06/02/1986	<5	4.4	100.	No Data	13.	No Data	No Data	3
		10/20/1986	<5	No Data	101.	No Data	11.	No Data	No Data	<1
83-72	Kd	05/21/1984	<10	2.9	22	No Data	15	No Data	No Data	1
		09/24/1984	<10	3	17	No Data	10	No Data	No Data	<1
		10/14/1985	15	1.8	22.2	No Data	11	No Data	No Data	<1
		06/02/1986	15	2.8	20.0	No Data	12.5	No Data	No Data	<3
		10/20/1986	10	No Data	26.2	No Data	11.	No Data	No Data	<1
83-73	Kd/Kbc	07/21/1983	<10	4.1	96	No Data	17	No Data	No Data	<1
		09/19/1983	<10	4.0	95	No Data	12	No Data	No Data	<1
		10/31/1983	<10	4.0	110	No Data	12	No Data	No Data	<1
		05/21/1984	<10	3.8	96	No Data	18	No Data	No Data	<1
		07/23/1984	<10	4	097	No Data	12	No Data	No Data	<1
		09/24/1984	<10	5	100	No Data	11	No Data	No Data	<1
		10/29/1984	<10	3.9	99	No Data	9	No Data	No Data	<.6
		10/14/1985	<5	3.5	94.3	No Data	11.5	No Data	No Data	<1
		06/02/1986	<5	8.2	103.	No Data	11.	No Data	No Data	<3
		10/20/1986	<5	No Data	99.6	No Data	10.5	No Data	No Data	<1
84-74	Kbc	09/24/1984	<10	4	100	No Data	12	<1	No Data	<1
		10/29/1984	<10	4.1	110	<1	10.5	<1	0.8	1.2
		04/09/1985	6	4.0	110	<1	16.5	No Data	No Data	<1

[a] A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.
[b] Total organic carbon.

Monticello Bedrock Groundwaters Historical Data (July 1983 - October 1991)[a]

Sample Location	Lithologic Zone	Sample Date	U234 (pCi/L)	U238 (pCi/L)	V (μg/L)	Zn (μg/L)
83-70	Kd/Kbc	07/21/1983	No Data	No Data	20	<50
		09/19/1983	No Data	No Data	<10	<20
		10/31/1983	No Data	No Data	<10	150
		05/21/1984	No Data	No Data	<50	60
		07/23/1984	No Data	No Data	<50	50
		09/24/1984	No Data	No Data	50	150
		10/29/1984	No Data	No Data	<50	400
		10/14/1985	No Data	No Data	<10	<5
		06/02/1986	No Data	No Data	<50	10
		10/20/1986	No Data	No Data	<50	No Data
		10/20/1986	No Data	No Data	<50	No Data
83-71	Kd/Kbc	07/21/1983	No Data	No Data	10	<50
		09/19/1983	No Data	No Data	<10	<20
		10/31/1983	No Data	No Data	<10	200
		05/21/1984	No Data	No Data	<50	80
		07/23/1984	No Data	No Data	<50	70
		09/24/1984	No Data	No Data	<50	110
		10/29/1984	No Data	No Data	<50	520
		10/14/1985	No Data	No Data	<10	14
		06/02/1986	No Data	No Data	<50	<10
		10/20/1986	No Data	No Data	<50	No Data
83-72	Kd	05/21/1984	No Data	No Data	<50	80
		09/24/1984	No Data	No Data	<50	90
		10/14/1985	No Data	No Data	<10	<5
		06/02/1986	No Data	No Data	<50	<10
		10/20/1986	No Data	No Data	<50	No Data
83-73	Kd/Kbc	07/21/1983	No Data	No Data	<10	<50
		09/19/1983	No Data	No Data	<10	<20
		10/31/1983	No Data	No Data	<10	50
		05/21/1984	No Data	No Data	<50	70
		07/23/1984	No Data	No Data	<50	80
		09/24/1984	No Data	No Data	<50	70
		10/29/1984	No Data	No Data	<50	300
		10/14/1985	No Data	No Data	<10	48
		06/02/1986	No Data	No Data	<50	<10
		10/20/1986	No Data	No Data	<50	No Data
84-74	Kbc	09/24/1984	No Data	No Data	<50	50
		10/29/1984	No Data	No Data	<50	350
		04/09/1985	No Data	No Data	<50	440

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "-" indicates an estimated value.

Document Number Q0003300

Monticello Bedrock Groundwaters Historical Data (July 1983 - October 1991)[a]

Sample Location	Lithologic Zone	Sample Date	^3H[b] (TU)	Ag (μg/L)	Al (μg/L)	Alkalinity (ppm)	Alpha (pCi/L)	As (μg/L)	Ba (μg/L)	Beta (pCi/L)
84-74	Kbc	06/10/1985	No Data	<10	No Data	245	7	<10	<100	6
		10/14/1985	No Data	<10	No Data	220	<6	<10	<100	<9
		06/02/1986	No Data	<25	No Data	No Data	No Data	<5	<100	No Data
		10/20/1986	No Data	No Data	No Data	No Data	No Data	<5	No Data	No Data
		10/13/1987	No Data	No Data	No Data	219	13.1	<5	No Data	No Data
		04/14/1988	No Data	No Data	No Data	208	10	<5	No Data	<8
		10/17/1988	No Data	No Data	No Data	209	11	<5	No Data	<8
		05/11/1989	No Data	No Data	No Data	216	<12	<10	No Data	<13
		10/19/1989	No Data	No Data	No Data	229	<11	<10	No Data	<9
		04/11/1990	No Data	No Data	No Data	213	<11	<10	No Data	<10
		10/18/1990	No Data	No Data	No Data	220	<17	<10	No Data	No Data
		06/24/1991	No Data	No Data	No Data	199	<9	<10	No Data	No Data
		10/20/1991	No Data	No Data	No Data	90	<13.	<3.00	No Data	No Data
84-75	Kbc	09/24/1984	No Data	No Data	No Data	221	No Data	<10	<100	No Data
		10/29/1984	No Data	<10	No Data	256	<15	<10	<100	<50
		04/09/1985	No Data	<10	No Data	225	<7	<10	<100	5
		06/10/1985	No Data	<10	No Data	220	6	<10	<100	5
		10/14/1985	No Data	<10	No Data	305	<6	<10	<100	<9
		06/02/1986	No Data	<25	No Data	No Data	No Data	<5	<100	No Data
		10/20/1986	No Data	No Data	No Data	No Data	No Data	<5	No Data	No Data
84-76	Kbc	09/24/1984	No Data	No Data	No Data	203	No Data	<10	100	No Data
		09/25/1984	No Data	No Data	No Data	203	No Data	<10	100	No Data
		10/29/1984	No Data	<10	No Data	226	<15	<10	100	<50
		04/09/1985	No Data	<10	No Data	204	<6	<10	<100	<5
		06/10/1985	No Data	<10	No Data	195	<4	<10	100	3
		10/14/1985	No Data	<10	No Data	294	<7	<10	100	<18
		06/02/1986	No Data	<25	No Data	No Data	No Data	6	170	No Data
		10/20/1986	No Data	No Data	No Data	No Data	No Data	<5	No Data	No Data
84-77	Kbc	09/24/1984	No Data	No Data	No Data	106	No Data	<10	<100	No Data
		10/29/1984	No Data	<10	No Data	254	<15	<10	<100	<50
		04/09/1985	No Data	<10	No Data	219	<8	<10	<100	5
		06/10/1985	No Data	<10	No Data	205	<6	<10	<100	4
		10/14/1985	No Data	<10	No Data	203	5.7	<10	<100	<9
		06/02/1986	No Data	<25	No Data	No Data	No Data	<5	<100	No Data
		10/20/1986	No Data	No Data	No Data	No Data	No Data	<5	No Data	No Data

[a] A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "-" indicates an estimated value.
[b] Tritium in tritium units.

Monticello Bedrock Groundwaters Historical Data (July 1983 - October 1991)[a]

Sample Location	Lithologic Zone	Sample Date	Ca (mg/L)	Cd (µg/L)	Conductivity (µmhos/cm)	Cl (mg/L)	Cr (µg/L)	DO (mg/L)	Eh (mV)	F (mg/L)
84-74	Kbc	06/10/1985	46.1	<1	590	4.9	<10	No Data	20	0.2
		10/14/1985	44.0	<1	567	4.4	<10	No Data	130	0.15
		06/02/1986	No Data	<5	No Data	3.9	<30	No Data	No Data	0.2
		10/20/1986	46.	No Data	No Data	4.0	No Data	No Data	130.	No Data
		10/13/1987	No Data	No Data	564.	No Data	No Data	No Data	No Data	No Data
		04/14/1988	No Data	No Data	584	No Data	No Data	No Data	No Data	No Data
		10/17/1988	No Data	No Data	612	No Data	No Data	No Data	No Data	No Data
		05/11/1989	No Data	No Data	614	No Data	No Data	No Data	No Data	No Data
		10/19/1989	No Data	No Data	580	No Data	No Data	No Data	No Data	No Data
		04/11/1990	No Data	No Data	610	No Data	No Data	No Data	No Data	No Data
		10/18/1990	No Data	No Data	605	No Data	No Data	No Data	No Data	No Data
		06/24/1991	No Data	No Data	634	No Data	No Data	No Data	No Data	No Data
		10/20/1991	No Data	No Data	620	No Data	No Data	No Data	No Data	No Data
84-75	Kbc	09/24/1984	21.8	No Data	522	5	No Data	0.8	130	No Data
		10/29/1984	25.6	<2	340	5	<10	No Data	120	0.30
		04/09/1985	28.4	<1	545	5	<10	No Data	No Data	0.2
		06/10/1985	28.5	<1	585	5.1	<10	No Data	165	0.2
		10/14/1985	25.6	<1	574	5.4	<10	No Data	120	0.17
		06/02/1986	No Data	<5	No Data	4.4	<30	No Data	No Data	0.2
		10/20/1986	30.	No Data	No Data	4.8	No Data	No Data	120.	No Data
84-76	Kbc	09/24/1984	8.7	No Data	419	3	No Data	0.25	20	No Data
		09/25/1984	8.90	No Data	419	3	No Data	0.25	20	No Data
		10/29/1984	10.2	<2	403	4	<10	0.6	90	0.46
		04/09/1985	13.2	<1	435	3	<10	No Data	No Data	0.3
		06/10/1985	13.5	<1	426	4.0	<10	No Data	50	0.3
		10/14/1985	15.5	<1	574	4.0	<10	No Data	-160	0.26
		06/02/1986	No Data	<5	No Data	3.2	<30	No Data	No Data	0.3
		10/20/1986	17.	No Data	No Data	3.3	No Data	No Data	10.	No Data
84-77	Kbc	09/24/1984	63.6	No Data	631	8.6	No Data	0.5	115	No Data
		10/29/1984	69.6	<2	455	3	<10	0.8	190	0.17
		04/09/1985	66.6	<1	521	7	<10	No Data	No Data	0.1
		06/10/1985	66.4	<1	524	3.4	<10	No Data	150	0.2
		10/14/1985	65.3	<1	539	2.9	<10	No Data	140	0.14
		06/02/1986	No Data	<5	No Data	2.9	<30	No Data	No Data	0.2
		10/20/1986	69.	No Data	No Data	3.0	No Data	No Data	170.	No Data

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "-" indicates an estimated value.

Monticello Bedrock Groundwaters Historical Data (July 1983 - October 1991)[a]

Sample Location	Lithologic Zone	Sample Date	Fe (μg/L)	Hg (μg/L)	K (mg/L)	Mg (mg/L)	Mn (μg/L)	Mo (μg/L)	Na (mg/L)	NH_4-N (μg/L)
84-74	Kbc	06/10/1985	100	<.2	3.29	11.5	170	<50	68.0	No Data
		10/14/1985	120	<.2	2	13.7	170	<10	75.0	No Data
		06/02/1986	<100	<1	No Data	No Data	110	No Data	62.	No Data
		10/20/1986	<100	No Data	2.7	10.	192	<50	73.	No Data
		10/13/1987	No Data	No Data	No Data	No Data	No Data	<50	No Data	No Data
		04/14/1988	No Data	No Data	No Data	No Data	No Data	<50	No Data	No Data
		10/17/1988	No Data	No Data	No Data	No Data	No Data	<50	No Data	No Data
		05/11/1989	No Data	No Data	No Data	No Data	No Data	<10	No Data	No Data
		10/19/1989	No Data	No Data	No Data	No Data	No Data	<10	No Data	No Data
		04/11/1990	No Data	No Data	No Data	No Data	No Data	<10	No Data	No Data
		10/18/1990	No Data	No Data	No Data	No Data	No Data	<10	No Data	No Data
		06/24/1991	No Data	No Data	No Data	No Data	No Data	<10	No Data	No Data
		10/20/1991	No Data	No Data	No Data	No Data	No Data	<18.00	No Data	No Data
84-75	Kbc	09/24/1984	<500	No Data	3.2	8.8	<500	<50	93.7	No Data
		10/29/1984	<100	<1	2.9	8.90	<50	<50	109	No Data
		04/09/1985	<100	.2	2.95	8.49	<50	<50	100	No Data
		06/10/1985	<100	<.2	2.90	8.71	<50	<50	93.2	No Data
		10/14/1985	<30	<.2	2	11.1	40	<10	101	No Data
		06/02/1986	<100	<1	No Data	No Data	<50	No Data	85.	No Data
		10/20/1986	<100	No Data	2.2	7.6	54	<50	97.	No Data
84-76	Kbc	09/24/1984	<500	No Data	2.6	6.7	<500	<50	87.7	No Data
		09/25/1984	<500	No Data	2.6	6.00	<500	<50	92.8	No Data
		10/29/1984	<100	<1	2.5	6.30	<50	<50	96.8	No Data
		04/09/1985	<100	<.2	2.33	5.58	<50	<50	90.2	No Data
		06/10/1985	<100	<.2	2.30	4.72	<50	<50	85.3	No Data
		10/14/1985	30	<.2	3	9.05	20	<10	95.3	No Data
		06/02/1986	<100	<1	No Data	No Data	<50	No Data	77.	No Data
		10/20/1986	<100	No Data	1.9	4.6	<25	<50	89.	No Data
84-77	Kbc	09/24/1984	<500	No Data	8.2	13.1	<500	<50	47.2	No Data
		10/29/1984	<100	<1	2.4	11.3	360	<50	61.4	No Data
		04/09/1985	100	.2	2.48	11.92	330	<50	41.6	No Data
		06/10/1985	<100	<.2	2.56	11.3	310	<50	40.4	No Data
		10/14/1985	<30	<.2	2	13.8	310	<10	42.1	No Data
		06/02/1986	<100	<1	No Data	No Data	280	No Data	37.	No Data
		10/20/1986	<100	No Data	2.2	11.	323	<50	40.	No Data

[a] A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.

Monticello Bedrock Groundwaters Historical Data (July 1983 - October 1991)[a]

Sample Location	Lithologic Zone	Sample Date	NO_3 (μg/L)	NO_3-N (μg/L)	Pb (μg/L)	Pb210 (pCi/L)	pH	PO_4 (mg/L)	Ra226 (pCi/L)	Ra228 (pCi/L)
84-74	Kbc	06/10/1985	<1000	No Data	<10	No Data	7.2	No Data	<1	No Data
		10/14/1985	2000	No Data	<10	No Data	7.5	<0.1	<1.0	No Data
		06/02/1986	<886	No Data	<25	No Data	No Data	No Data	.9	No Data
		10/20/1986	9298.8	No Data	No Data	No Data	No Data	No Data	0.6	No Data
		10/13/1987	<1000	No Data	No Data	No Data	7.4	No Data	1.0	<1.
		04/14/1988	<200	No Data	No Data	No Data	7.60	No Data	1.6	<1.2
		10/17/1988	200	No Data	No Data	No Data	7.6	No Data	1.4	<1.2
		05/11/1989	70	No Data	No Data	No Data	7.40	No Data	1.1	<1.0
		10/19/1989	<40	No Data	No Data	No Data	7.46	No Data	1.3	<2.0
		04/11/1990	100	No Data	No Data	No Data	7.45	No Data	1.3	2
		10/18/1990	580	No Data	No Data	No Data	7.75	No Data	1.0	<3
		06/24/1991	60	No Data	No Data	No Data	7.50	No Data	0.7	<2.0
		10/20/1991	240	No Data	No Data	No Data	7.67	No Data	1.0	<7
84-75	Kbc	09/24/1984	<5000	No Data	No Data	<1.5	8.2	No Data	<2	No Data
		10/29/1984	<5000	No Data	<10	<1.5	7.8	No Data	<2	No Data
		04/09/1985	<1000	No Data	<10	No Data	7.2	No Data	<1	No Data
		06/10/1985	<1000	No Data	<10	No Data	7.3	No Data	<1	No Data
		10/14/1985	<1000	No Data	<10	No Data	7.7	<0.1	<1.0	No Data
		06/02/1986	<886	No Data	<25	No Data	No Data	No Data	.3	No Data
		10/20/1986	10184.4	No Data	No Data	No Data	No Data	No Data	0.3	No Data
84-76	Kbc	09/24/1984	<5000	No Data	No Data	<1.5	8.4	No Data	<2	No Data
		09/25/1984	<5000	No Data	No Data	<1.5	8.4	No Data	<2	No Data
		10/29/1984	<5000	No Data	<10	<1.5	7.8	No Data	<2	No Data
		04/09/1985	<1000	No Data	<10	No Data	6.8	No Data	<1	No Data
		06/10/1985	1000	No Data	<10	No Data	7.7	No Data	<1	No Data
		10/14/1985	<1000	No Data	<10	No Data	7.3	2.3	<1.0	No Data
		06/02/1986	<886	No Data	<25	No Data	No Data	No Data	.5	No Data
		10/20/1986	2656.8	No Data	No Data	No Data	No Data	No Data	<0.1	No Data
84-77	Kbc	09/24/1984	<5000	No Data	No Data	<1.5	7.4	No Data	<2	No Data
		10/29/1984	<5000	No Data	<10	<1.5	7.4	No Data	<2	No Data
		04/09/1985	<1000	No Data	<10	No Data	6.9	No Data	<1	No Data
		06/10/1985	<1000	No Data	<10	No Data	7.4	No Data	<1	No Data
		10/14/1985	2000	No Data	<10	No Data	8.0	<0.1	<1.0	No Data
		06/02/1986	<886	No Data	<25	No Data	No Data	No Data	.5	No Data
		10/20/1986	11955.6	No Data	No Data	No Data	No Data	No Data	0.4	No Data

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "-" indicates an estimated value.

Monticello Bedrock Groundwaters Historical Data (July 1983 - October 1991)[a]

Sample Location	Lithologic Zone	Sample Date	Se (μg/L)	Si (mg/L)	SO_4 (mg/L)	Total Coliform (colonies/100 mL)	Temp (deg C)	Th230 (pCi/L)	TOC[b] (mg/L)	U (μg/L)
84-74	Kbc	06/10/1985	<10	3.9	96.9	<1	11.5	No Data	No Data	3
		10/14/1985	<5	3.4	98.4	<1	11	No Data	No Data	<1
		06/02/1986	<5	No Data	110.	No Data	No Data	No Data	No Data	No Data
		10/20/1986	<5	No Data	101.	No Data	No Data	No Data	No Data	<1
		10/13/1987	<5	No Data	No Data	No Data	10.5	No Data	No Data	<1
		04/14/1988	<5	No Data	No Data	No Data	11.0	No Data	No Data	<1
		10/17/1988	<5	No Data	No Data	No Data	11.6	No Data	No Data	<3
		05/11/1989	<5	No Data	No Data	No Data	11.4	No Data	No Data	<5
		10/19/1989	<5	No Data	No Data	No Data	11.7	No Data	No Data	<5
		04/11/1990	<5	No Data	No Data	No Data	11.1	No Data	No Data	<5
		10/18/1990	<5	No Data	No Data	No Data	10.4	No Data	No Data	No Data
		06/24/1991	<5	No Data	No Data	No Data	No Data	No Data	No Data	No Data
		10/20/1991	<2.00	No Data	No Data	No Data	10.8	<0.3	No Data	No Data
84-75	Kbc	09/24/1984	<10	4	88	No Data	14.5	<1	No Data	1
		10/29/1984	<10	3.9	96	No Data	12	<1	7.6	.5
		04/09/1985	<5	4.0	93	<1	10	No Data	No Data	3
		06/10/1985	<10	4.0	90.2	<1	12	No Data	No Data	<1
		10/14/1985	<5	3.9	88.4	<1	11	No Data	No Data	<1
		06/02/1986	<5	No Data	94.5	No Data	No Data	No Data	No Data	No Data
		10/20/1986	<5	No Data	90.7	No Data	No Data	No Data	No Data	<1
84-76	Kbc	09/24/1984	<10	3	56	No Data	11.5	<1	No Data	1
		09/25/1984	<10	4	56	No Data	11.5	<1	No Data	2
		10/29/1984	<10	3.9	58	<1	12	<1	5.3	1
		04/09/1985	<5	4.2	55	<1	10	No Data	No Data	<1
		06/10/1985	<10	4.0	52.8	<1	11	No Data	No Data	<1
		10/14/1985	<5	4.9	18.8	<1	11	No Data	No Data	1
		06/02/1986	<5	No Data	40.9	No Data	No Data	No Data	No Data	No Data
		10/20/1986	<5	No Data	44.5	No Data	No Data	No Data	No Data	<1
84-77	Kbc	09/24/1984	<10	5	110	No Data	21.5	<1	No Data	1
		10/29/1984	<10	4.0	98	<1	10	<1	0.8	<.5
		04/09/1985	<5	3.8	96	<1	12	No Data	No Data	<1
		06/10/1985	<10	3.8	93.1	<1	11	No Data	No Data	<1
		10/14/1985	<5	3.7	91.4	<1	9	No Data	No Data	<1
		06/02/1986	<5	No Data	104.	No Data	No Data	No Data	No Data	No Data
		10/20/1986	<5	No Data	96.1	No Data	No Data	No Data	No Data	<1

[a] A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.
[b] Total organic carbon.

Monticello Bedrock Groundwaters Historical Data (July 1983 - October 1991)[a]

Sample Location	Lithologic Zone	Sample Date	U234 (pCi/L)	U238 (pCi/L)	V (μg/L)	Zn (μg/L)
84-74	Kbc	06/10/1985	No Data	No Data	<50	<50
		10/14/1985	No Data	No Data	<10	<5
		06/02/1986	No Data	No Data	No Data	No Data
		10/20/1986	No Data	No Data	<50	No Data
		10/13/1987	No Data	No Data	<50	No Data
		04/14/1988	No Data	No Data	<50	No Data
		10/17/1988	No Data	No Data	<50	No Data
		05/11/1989	No Data	No Data	<50	No Data
		10/19/1989	No Data	No Data	<50	No Data
		04/11/1990	No Data	No Data	<50	No Data
		10/18/1990	0.6	<0.2	<50	No Data
		06/24/1991	<0.1	<0.1	<50	No Data
		10/20/1991	0.4	<0.3	<10.00	No Data
84-75	Kbc	09/24/1984	No Data	No Data	<50	60
		10/29/1984	No Data	No Data	<50	300
		04/09/1985	No Data	No Data	100	<50
		06/10/1985	No Data	No Data	<50	<50
		10/14/1985	No Data	No Data	<10	<5
		06/02/1986	No Data	No Data	No Data	No Data
		10/20/1986	No Data	No Data	<50	No Data
84-76	Kbc	09/24/1984	No Data	No Data	<50	240
		09/25/1984	No Data	No Data	<50	240
		10/29/1984	No Data	No Data	<50	280
		04/09/1985	No Data	No Data	170	<50
		06/10/1985	No Data	No Data	<50	<50
		10/14/1985	No Data	No Data	<10	<5
		06/02/1986	No Data	No Data	No Data	No Data
		10/20/1986	No Data	No Data	<50	No Data
84-77	Kbc	09/24/1984	No Data	No Data	<50	110
		10/29/1984	No Data	No Data	<50	280
		04/09/1985	No Data	No Data	<50	<50
		06/10/1985	No Data	No Data	<50	<50
		10/14/1985	No Data	No Data	<10	<5
		06/02/1986	No Data	No Data	No Data	No Data
		10/20/1986	No Data	No Data	<50	No Data

[a]A "<" indicates that the concentration was below the detection limit (number shown is detection limit). A "~" indicates an estimated value.

Appendix C

Field and Laboratory Analytical Results

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Appendix C–1

Surface-Water Data

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Surface-Water Field Measurements Data

Sample Location	Sample Date	Alkalinity (ppm)	Conductivity (μmhos/cm)	pH	Temp (deg C)
Reference - West of 191					
SW92-01	11/16/1992	No Data	1038	7.70	5.2
	11/16/1992	No Data	No Data	No Data	No Data
	03/02/1993	206	1674	7.93	4.0
	04/19/1993	212	1979	8.17	13.1
	07/19/1993	113	602	7.70	11.5
	10/27/1993	179	2080	7.84	9.6
	05/03/1994	215	1935	8.24	6.8
	10/05/1994	130	1733	7.96	9.5
	04/17/1995	141	758	8.33	8.8
	10/02/1995	235	1926	7.83	12.9
	06/26/1996	No Data	No Data	No Data	No Data
	06/26/1996	No Data	No Data	No Data	No Data
SW92-02	11/17/1992	No Data	842	7.80	7.3
	03/02/1993	196	676	8.12	6.0
	03/02/1993	No Data	No Data	No Data	No Data
	04/20/1993	117	383	7.68	10.0
	07/20/1993	159	857	7.56	9.6
	10/27/1993	162	745	7.31	6.2
	05/02/1994	245	711	8.0	10.8
	10/05/1994	155	472	8.25	8.8
	04/17/1995	178	673	8.11	7.6
	10/02/1995	206	513	8.26	9.5
SW92-03	03/09/1993	233	751	7.89	3.8
	05/05/1993	137	682	8.19	4.1
	07/20/1993	114	659	7.84	10.1
	10/28/1993	166	No Data	7.99	1.2
	10/28/1993	No Data	No Data	No Data	No Data
	05/02/1994	220	1151	8.17	15.2
	10/05/1994	123	1192	8.24	9.8
	04/17/1995	170	692	8.42	8.1
	10/03/1995	201	1880	7.81	5.8
	10/03/1995	No Data	No Data	No Data	No Data
Reference - Verdure					
10SW95-01	09/06/1995	210	690	8.10	20.7

Surface-Water Field Measurements Data

Sample Location	Sample Date	Alkalinity (ppm)	Conductivity (μmhos/cm)	pH	Temp (deg C)
Reference - Verdure					
11SW95-01	09/06/1995	180	662	8.07	21.6
12SW95-01	09/06/1995	178	660	8.09	22.0
14SW96-01	06/10/1996	287	971	8.17	19.6
15SW96-01	06/10/1996	226	866	8.16	24.5
16SW96-01	06/10/1996	216	883	8.14	23.4
17SW96-01	06/11/1996	229	819	7.78	15.6
Reference - Vega					
13SW95-01	09/07/1995	325	1007	7.37	18.8
	09/07/1995	No Data	No Data	No Data	No Data
SW95-01	02/16/1996	387	1395	7.93	0.1
On-Site					
Carbonate Seep	11/11/1992	255	1518	8.00	6.2
	04/27/1993	315	1849	7.86	11.0
	07/21/1993	193	2540	8.29	24.1
	11/02/1993	223	1987	8.23	4.4
	05/04/1994	236	1629	8.5	21.2
	10/11/1994	353	1578	8.00	15.2
	10/11/1994	No Data	No Data	No Data	No Data
North Drainage	11/11/1992	360	884	7.74	9.0
	03/08/1993	277	1614	8.57	7.2
	04/23/1993	330	1760	7.94	11.8
	04/23/1993	No Data	No Data	No Data	No Data
	05/04/1994	263	1021	8.55	17.3
SW92-04	11/16/1992	320	1237	7.75	4.7
	03/08/1993	286	1562	8.42	3.3
	05/06/1993	202	931	7.61	6.5
	07/21/1993	124	733	7.97	16.9
	11/02/1993	215	1956	7.95	3.4
	05/04/1994	249	1598	8.06	15.5
	10/11/1994	262	1854	7.73	8.5
	04/18/1995	209	1258	8.01	4.7
	10/05/1995	207	1879	7.77	11.0

Surface-Water Field Measurements Data

Sample Location	Sample Date	Alkalinity (ppm)	Conductivity (μmhos/cm)	pH	Temp (deg C)
On-Site					
SW92-05	11/16/1992	302	1280	7.85	7.4
	03/04/1993	261	1740	8.67	6.2
	05/06/1993	168	901	7.56	5.6
	07/20/1993	123	800	8.44	17.9
	11/02/1993	195	1940	7.87	4.5
	05/05/1994	246	1609	8.06	9.8
	05/05/1994	246	1609	8.06	9.8
	10/11/1994	285	1871	7.99	6.5
	04/18/1995	214	1256	8.20	5.7
	10/05/1995	199	1981	8.30	10.8
	10/05/1995	No Data	No Data	No Data	No Data
	04/10/1996	2267	1807	7.88	5.5
Slade Spring	04/18/1995	260	1243	6.94	6.9
	10/05/1995	329	1958	6.90	11.3
W-2	11/11/1992	297	1243	7.71	4.5
	11/11/1992	No Data	No Data	No Data	No Data
	03/08/1993	288	1650	8.62	6.6
	04/27/1993	282	1432	8.18	13.0
	04/27/1993	No Data	No Data	No Data	No Data
	05/04/1994	548	5170	9.46	19.9
	10/11/1994	516	3810	8.31	No Data
W-5	03/08/1993	230	1106	7.22	4.8
	03/08/1993	No Data	No Data	No Data	No Data
	04/26/1993	371	1276	7.72	14.5
Downgradient - Upper Montezuma Creek					
01SW95-01	09/07/1995	235	1885	7.73	13.9
	09/07/1995	No Data	No Data	No Data	No Data
02SW95-01	09/05/1995	247	2002	7.61	17.2
03SW95-01	09/05/1995	225	1975	7.85	18.7
04SW95-01	09/05/1995	228	1267	7.80	No Data
05SW95-01	09/05/1995	230	1296	7.94	22.1
21SW96-01	06/11/1996	226	1701	8.16	22.4
	06/11/1996	No Data	No Data	No Data	No Data
22SW96-01	06/11/1996	208	1624	8.94	21.4

Surface-Water Field Measurements Data

Sample Location	Sample Date	Alkalinity (ppm)	Conductivity (μmhos/cm)	pH	Temp (deg C)
Downgradient - Upper Montezuma Creek					
23SW96-01	06/11/1996	228	1656	7.99	17.7
SW92-06	11/10/1992	418	1183	7.77	3.0
	03/01/1993	275	1765	7.31	4.5
	05/05/1993	201	945	8.16	4.9
	07/22/1993	126	958	7.82	10.3
	07/22/1993	126	958	7.82	No Data
	10/29/1993	226	1146	7.08	4.7
	05/04/1994	262	1675	8.26	8.6
	05/04/1994	No Data	No Data	No Data	No Data
	10/06/1994	313	1930	9.6	8.8
	04/19/1995	224	1349	8.57	4.9
	10/03/1995	296	2040	8.05	14.2
SW92-07	11/17/1992	353	1243	8.31	7.2
	03/10/1993	297	1836	8.50	7.3
	05/05/1993	189	1004	7.66	6.6
	07/21/1993	175	983	7.88	10.3
	10/29/1993	213	1924	7.34	5.8
	05/03/1994	239	1817	8.38	10.1
	10/05/1994	200	1648	8.11	11.4
	04/19/1995	232	1400	7.80	12.8
	10/03/1995	261	1407	7.79	14.6
	04/09/1996	2272	1844	8.11	12.3
	06/26/1996	No Data	No Data	No Data	No Data
Sorenson	11/10/1992	357	1209	7.82	3.5
	03/09/1993	233	1584	7.90	8.1
	05/05/1993	183	999	8.01	7.4
	07/20/1993	167	1072	8.25	20.8
	10/28/1993	No Data	1917	7.50	8.8
	05/03/1994	253	1829	7.82	8.8
	10/06/1994	287	2030	7.93	8.7
	04/19/1995	270	1528	8.41	5.5
	04/19/1995	270	1528	8.41	5.5
	10/03/1995	260	2040	7.86	13.0
	04/09/1996	2182	1865	7.92	14.5
	04/09/1996	No Data	No Data	No Data	No Data
	06/26/1996	No Data	No Data	No Data	No Data

Surface-Water Field Measurements Data

Sample Location	Sample Date	Alkalinity (ppm)	Conductivity (μmhos/cm)	pH	Temp (deg C)
Downgradient - Upper Montezuma Creek					
W-4	11/10/1992	333	1380	6.85	7.7
	03/01/1993	281	1846	8.23	4.4
	05/05/1993	150	897	8.54	7.4
	07/21/1993	147	823	7.30	11.7
	10/28/1993	202	1645	7.85	6.6
	10/28/1993	No Data	No Data	No Data	No Data
	05/03/1994	231	1640	8.0	12.2
	10/06/1994	283	1832	7.89	6.8
	10/06/1994	No Data	No Data	No Data	No Data
	04/18/1995	248	1298	8.36	10.3
	04/18/1995	248	1298	8.36	10.3
	10/03/1995	230	1957	8.05	10.1
Downgradient - Off-Site					
18SW96-01	06/11/1996	183	1821	8.17	23.4
19SW96-01	06/11/1996	194	1667	7.9	18.6
20SW96-01	06/11/1996	178	1684	7.72	22.3
Montezuma Creek					
	11/15/1992	207	995	8.35	3.3
	03/01/1993	193	1055	8.38	6.7
	04/22/1993	80	241	8.21	11.2
	07/22/1993	145	997	8.69	20.8
	10/28/1993	208	1662	9.1	9.1
	05/02/1994	171	1750	8.54	17.9
	10/07/1994	259	1988	8.14	7.2
	04/19/1995	260	1440	8.61	12.3
	10/04/1995	243	1435	No Data	12.7
Downgradient - Middle Montezuma Creek					
24SW96-01	06/11/1996	208	1636	8.1	20.1
25SW96-01	06/11/1996	234	1652	7.72	19.6
Downgradient - Lower Montezuma Creek					
06SW95-01	09/06/1995	240	1278	7.91	17.8

Surface-Water Field Measurements Data

Sample Location	Sample Date	Alkalinity (ppm)	Conductivity (μmhos/cm)	pH	Temp (deg C)
Downgradient - Lower Montezuma Creek					
07SW95-01	09/06/1995	229	1276	7.95	17.8
08SW95-01	09/06/1995	245	1246	8.21	19.2
09SW95-01	09/06/1995	240	1265	8.29	19.3
Cabin Spring	10/17/1995	91	950	7.69	7.2
SW92-08	11/17/1992	322	999	8.15	2.7
	03/10/1993	250	1663	8.10	5.4
	05/05/1993	182	985	8.00	6.0
	07/22/1993	151	944	8.32	17.2
	11/01/1993	220	1936	8.12	5.0
	05/03/1994	237	1703	8.3	13.2
	10/06/1994	237	1496	8.24	10.2
	04/20/1995	237	1457	8.16	5.8
	10/04/1995	267	1427	9.05	9.7
SW92-09	11/17/1992	355	1044	7.68	3.4
	03/10/1993	245	1669	8.23	4.9
	05/05/1993	176	1013	7.98	5.8
	07/22/1993	151	914	8.53	17.5
	11/01/1993	262	1918	8.59	6.1
	05/03/1994	253	1697	8.23	13.0
	10/06/1994	227	1466	8.46	13
	04/20/1995	216	1473	8.11	5.8
	10/04/1995	289	1384	8.21	9.8
SW94-01	10/04/1995	No Data	1424	8.06	9.2
	02/16/1996	262	1995	8.10	1.6
	02/16/1996	No Data	No Data	No Data	No Data
	04/09/1996	1983	1784	8.33	7.5
	06/26/1996	No Data	No Data	No Data	No Data
Crossgradient - Off-Site					
Pehrson 1	05/06/1994	416	1175	7.21	9.1
	10/10/1994	531	1270	7.59	20.6
Pehrson 2	05/06/1994	673	1481	7.51	18.4
	04/19/1995	595	1322	7.74	11.3
Upper North Drainage	05/06/1994	1562	1498	7.93	7.2
	10/12/1994	280	3620	7.99	8.8

Surface-Water Common Ions Data[a]

Sample Location	Sample Date	Ca[b] (mg/L)	Ca[c] (mg/L)	Cl[d] (mg/L)	F[d] (µg/L)	Hardness[d] (mg/L)	K[b] (mg/L)	K[c] (mg/L)	Mg[b] (mg/L)	Mg[c] (mg/L)
Reference - West of 191										
SW92-01	11/16/1992	356	No Data	6.11E	109B	1050	1.7U	No Data	38.7	No Data
	11/16/1992	344	No Data	6.07E	107B	1020	2.28J	No Data	38.9	No Data
	03/02/1993	329	No Data	7.27	121B	968	2.56J	No Data	35.5	No Data
	04/19/1993	403	No Data	5.31	104B	1210	3.64	No Data	49.3	No Data
	07/19/1993	96.4	No Data	2.49	97.5B	296	1.59J	No Data	13.5	No Data
	10/27/1993	431	No Data	8.19	140B	1320	3.41J	No Data	58.3	No Data
	05/03/1994	388	No Data	10.8	115BN	1180	2.8J	No Data	50.3	No Data
	10/05/1994	347	No Data	4.62	123B	1040	2.89J	No Data	41.1	No Data
	04/17/1995	137	141	2.53	84.4B	408	1.56J	1.05U	16	16.4
	10/02/1995	380	385	7.27	289	1160	3.52J	3.16J	52.2	50.9
	06/26/1996	322	No Data	4.61	231	979	3.31J	No Data	42.5	No Data
	06/26/1996	321	No Data	4.6	231	977	3.52J	No Data	42.5	No Data
SW92-02	11/17/1992	126	No Data	9.68	145B	393	1.7U	No Data	19.1	No Data
	03/02/1993	96.1	No Data	7.06	156B	300	1.72J	No Data	14.6	No Data
	03/02/1993	97.2	No Data	6.86	154B	303	.917U	No Data	14.7	No Data
	04/20/1993	49.6	No Data	5.23	111B	156	1.39	No Data	7.8	No Data
	07/20/1993	63.7	No Data	4.86	154B	199	.906U	No Data	9.67	No Data
	10/27/1993	113	No Data	9.27	120B	353	1.19J	No Data	17.1	No Data
	05/02/1994	104	No Data	10.0	136BN	326	0.85J	No Data	16.0	No Data
	10/05/1994	63.3	No Data	4.29	156B	201	.672U	No Data	10.5	No Data
	04/17/1995	94.7	104	10.7	91.6B	295	1.05U	1.05U	14.3	15.7
	10/02/1995	72.2	72.5	5.24	182B	228	1.47U	1.32U	11.7	11.4
SW92-03	03/09/1993	109	No Data	9.01	130B	331	.917U	No Data	14.3	No Data
	05/05/1993	102	No Data	5.42	104B	319	1.01	No Data	15.6	No Data
	07/20/1993	98.4	No Data	2.84	78.7B	305	.906U	No Data	14.5	No Data
	10/28/1993	331	No Data	8	100B	1020	2.11J	No Data	46.7	No Data
	10/28/1993	325	No Data	7.56	95.0B	1000	2.76J	No Data	46.3	No Data
	05/02/1994	200	No Data	8.3	122BN	619	2.7J	No Data	29.1	No Data
	10/05/1994	203	No Data	4.76	127B	618	1.93J	No Data	27	No Data
	04/17/1995	104	108	7.1	84.9B	318	1.05U	1.05U	14.1	14.8
	10/03/1995	340	342	7.76	202	1050	3.13J	2.71J	49.6	47.9
	10/03/1995	341	341	7.74	201	1060	3.68J	2.88J	49.6	48.1
Reference - Verdure										
10SW95-01	09/06/1995	88.9	88.6	20.4	161B	300	1.47J	1.77J	18.9	18.3

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected: value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Sample was unfiltered.
[c]Sample was filtered in the field.
[d]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value.

Surface-Water Common Ions Data[a]

Sample Location	Sample Date	Na[b] (mg/L)	Na[c] (mg/L)	NH_4[d] (µg/L)	NO_2[d] (µg/L)	NO_3[d] (µg/L)	NO_3+NO_2-N[d] (µg/L)	SO_4[d] (mg/L)	TDS[d] (mg/L)
Reference - West of 191									
SW92-01	11/16/1992	26.3	No Data	34	6.0U	81.3B	No Data	848	1400
	11/16/1992	26.4	No Data	36	6.0U	55.2B	No Data	836	1540
	03/02/1993	25.8J	No Data	48.0	8.6B	298B	No Data	715	1340
	04/19/1993	32.1	No Data	21.0	30.2B	50.6B	No Data	254	1826
	07/19/1993	8.39	No Data	71.0	16.1B	894	No Data	188	414B
	10/27/1993	33.2J	No Data	30.2	No Data	No Data	1580	1000	1842
	05/03/1994	26.9	No Data	61.7	No Data	No Data	146	927	1720
	10/05/1994	22.4	No Data	66.5	No Data	No Data	90.4B	816	1460
	04/17/1995	10.4	10.2	111	No Data	No Data	28.0B	282	580
	10/02/1995	28.3	26.9	29.3	No Data	No Data	323B	958	1710
	06/26/1996	23.6	No Data	No Data	No Data	No Data	11.3B	782	No Data
	06/26/1996	23.8	No Data	No Data	No Data	No Data	15.1B	788	No Data
SW92-02	11/17/1992	32.4	No Data	39	12.3B	54.3B	No Data	175	520
	03/02/1993	29.1J	No Data	80.0	2.1B	120B	No Data	116	436
	03/02/1993	29.1J	No Data	24.0	4.0U	117B	No Data	116	425
	04/20/1993	13.6	No Data	97.0	5.0B	327	No Data	62.1	244B
	07/20/1993	17.8	No Data	77.0	23.9B	353	No Data	63.6	298B
	10/27/1993	25.2J	No Data	16.8B	No Data	No Data	93.4B	146	498B
	05/02/1994	24.6	No Data	50.2	No Data	No Data	41.0B	151	474B
	10/05/1994	17.1	No Data	175	No Data	No Data	75.5B	57.8	306B
	04/17/1995	24.1	25.3	58.6	No Data	No Data	28.3B	157	482B
	10/02/1995	21.4	20.5	13.8B	No Data	No Data	15.3B	73.2	318
SW92-03	03/09/1993	25.2J	No Data	60.0	6.2B	600	No Data	142	483
	05/05/1993	18.6	No Data	22.0B	8.3B	929	No Data	181	454B
	07/20/1993	10.2	No Data	80.0	8.5B	1200	No Data	197	450B
	10/28/1993	30J	No Data	35.6	No Data	No Data	1040	739	1420
	10/28/1993	29.8J	No Data	27.5	No Data	No Data	1010	734	1418
	05/02/1994	25.8	No Data	96.3	No Data	No Data	21.8B	435	898
	10/05/1994	19.3	No Data	160	No Data	No Data	84.1B	474	914
	04/17/1995	17.6	17.9	33.8	No Data	No Data	15.4B	199	506
	10/03/1995	29.9	28.6	19.0B	No Data	No Data	266B	872	1560
	10/03/1995	30	28.7	52.5	No Data	No Data	272B	872	1540
Reference - Verdure									
10SW95-01	09/06/1995	29	27.8	16.3B	No Data	No Data	35.8B	129	No Data

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[c]Sample was filtered in the field.
[d]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value.

Surface-Water Common Ions Data[a]

Sample Location	Sample Date	Ca[b] (mg/L)	Ca[c] (mg/L)	Cl[d] (mg/L)	F[d] (µg/L)	Hardness[d] (mg/L)	K[b] (mg/L)	K[c] (mg/L)	Mg[b] (mg/L)	Mg[c] (mg/L)
Reference - Verdure										
11SW95-01	09/06/1995	84.6	83.7	20	145B	287	1.17J	1.61J	18.5	18.1
12SW95-01	09/06/1995	81.4	80.6	19.9	142B	279	2.1J	1.22J	18.4	18
14SW96-01	06/10/1996	117	131	33	170	413	2.13	2.2	29.4	29.4
15SW96-01	06/10/1996	105	111	31.4	198	376	2.74	1.8	27.6	27.5
16SW96-01	06/10/1996	104	105	31.7	178	373	2.94	2.29	27.4	27.5
17SW96-01	06/11/1996	81.5	81	19	279	327	5.41	5.59	30.1	29.8
Reference - Vega										
13SW95-01	09/07/1995	112	110	33	269	412	5.65	4.42J	32.1	31.6
	09/07/1995	113	111	33.4	289	416	5.04J	4.35J	32.6	31.8
SW95-01	02/16/1996	112	115	39.7	253	421	3.98J	4.11J	34.4	34.5
On-Site										
Carbonate Seep	11/11/1992	179	No Data	63	431	710	40.3	No Data	63.8	No Data
	04/27/1993	165	No Data	51.5	499	594	24.1	No Data	44.2	No Data
	07/21/1993	87.3	No Data	117	891	468	45.3	No Data	60.7	No Data
	11/02/1993	159	No Data	71.4	653	599	32.7	No Data	49.1	No Data
	05/04/1994	97.0	No Data	48.5	518N	406	24.6	No Data	39.7	No Data
	10/11/1994	193	No Data	42.1	343	629	17.2	No Data	35.7	No Data
	10/11/1994	188	No Data	41.9	348	611	15.6	No Data	34.4	No Data
North Drainage	11/11/1992	191	No Data	136	143B	628	8.63	No Data	36.8	No Data
	03/08/1993	201	No Data	112	141B	666	5.24	No Data	39.9	No Data
	04/23/1993	200	No Data	53.8	158B	667	3.95	No Data	40.7	No Data
	04/23/1993	218	No Data	54	161B	726	4.19	No Data	44	No Data
	05/04/1994	140	No Data	65.9	178BN	478	4.2J	No Data	31.2	No Data
SW92-04	11/16/1992	358	No Data	18E	126B	1150	5.54	No Data	63.1	No Data
	03/08/1993	235	No Data	48.2	125B	768	3.63J	No Data	44.1	No Data
	05/06/1993	138	No Data	13.6	104B	440	1	No Data	23.1	No Data
	07/21/1993	114	No Data	4.35	102B	358	1.33J	No Data	17.9	No Data
	11/02/1993	344	No Data	11.4	82.0B	1080	2.89J	No Data	54	No Data
	05/04/1994	266	No Data	12.5	103BN	847	2.2J	No Data	44.5	No Data
	10/11/1994	338	No Data	12.1	75.6B	1060	3.62J	No Data	51.8	No Data
	04/18/1995	213	220	12.3	76.3B	663	1.56J	1.33J	31.8	33.5
	10/05/1995	350	347	9.88	197B	1100	3.87J	2.91J	55.7	52.3

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[b]Sample was unfiltered.
[c]Sample was filtered in the field.
[d]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value.

Surface-Water Common Ions Data[a]

Sample Location	Sample Date	Na[b] (mg/L)	Na[c] (mg/L)	NH_4[d] (µg/L)	NO_2[d] (µg/L)	NO_3[d] (µg/L)	NO_3+NO_2-N[d] (µg/L)	SO_4[d] (mg/L)	TDS[d] (mg/L)
Reference - Verdure									
11SW95-01	09/06/1995	29	27.9	28.8	No Data	No Data	10.0U	128	No Data
12SW95-01	09/06/1995	29.1	27.7	13.7B	No Data	No Data	10.6B	129	No Data
14SW96-01	06/10/1996	51.2	52.3	20.0	No Data	No Data	7.0U	230	603
15SW96-01	06/10/1996	51.9	52	20.0	No Data	No Data	7.0U	222	565
16SW96-01	06/10/1996	51.5	52.2	15.2B	No Data	No Data	7.0U	222	562
17SW96-01	06/11/1996	65.1	64.9	20.0	No Data	No Data	10.4B	127	500
Reference - Vega									
13SW95-01	09/07/1995	66.7	65	51.5	No Data	No Data	10.0U	154	No Data
	09/07/1995	67.6	65	43.9	No Data	No Data	10.0U	154	No Data
SW95-01	02/16/1996	148	148	37.5	No Data	No Data	15.5B*	810	870
On-Site									
Carbonate Seep	11/11/1992	271	No Data	77	6.0U	34.7B	No Data	1010	1820
	04/27/1993	212	No Data	18.0B	27.8B	41.7B	No Data	633	1422
	07/21/1993	402	No Data	65.0	8.0U	60.8B	No Data	980	2040
	11/02/1993	267	No Data	49.0	No Data	No Data	11.5B	666	1580
	05/04/1994	202	No Data	58.8	No Data	No Data	28.3B	555	1190
	10/11/1994	104	No Data	95.8	No Data	No Data	107B	476	1130
	10/11/1994	99.2	No Data	189	No Data	No Data	57.8B	472	1140
North Drainage	11/11/1992	101	No Data	220	73.8B	9120	No Data	301	1080
	03/08/1993	83.2J	No Data	248	86.8B	18000	No Data	357	1070
	04/23/1993	55.9	No Data	63.0	66.2B	12700	No Data	422	1090
	04/23/1993	59.8	No Data	60.0	51.2B	13300	No Data	400	1102
	05/04/1994	59.6	No Data	112	No Data	No Data	61.8B	222	734
SW92-04	11/16/1992	73.7	No Data	34	26.5B	814	No Data	928	1860
	03/08/1993	63.1J	No Data	98.0	20.4B	4880	No Data	501	1220
	05/06/1993	29.9	No Data	23.0	27.2B	2150	No Data	272	656
	07/21/1993	15.8	No Data	53.0	16.4B	1110	No Data	295	542
	11/02/1993	49.7	No Data	30.2	No Data	No Data	1870	762	1586
	05/04/1994	41.0	No Data	50.2	No Data	No Data	733	649	1280
	10/11/1994	51	No Data	49.0	No Data	No Data	367B	830	1530
	04/18/1995	32.6	32.6	72.4	No Data	No Data	168B	473	1010
	10/05/1995	38.2	35.9	26.7	No Data	No Data	478B	904	1600

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[d]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value. * -- Duplicate analysis is not within control limits.

Surface-Water Common Ions Data[a]

Sample Location	Sample Date	Ca[b] (mg/L)	Ca[c] (mg/L)	Cl[d] (mg/L)	F[d] (µg/L)	Hardness[d] (mg/L)	K[b] (mg/L)	K[c] (mg/L)	Mg[b] (mg/L)	Mg[c] (mg/L)
On-Site										
SW92-05	11/16/1992	352	No Data	15.7E	111B	1130	4.7J	No Data	61.7	No Data
	03/04/1993	264	No Data	57.6	139B	865	3.56J	No Data	50	No Data
	05/06/1993	131	No Data	10.8	99.9B	417	1.27	No Data	21.8	No Data
	07/20/1993	120	No Data	5.52	92.6B	379	1.42J	No Data	19.2	No Data
	11/02/1993	344	No Data	12.3	125B	1080	3.65J	No Data	54.2	No Data
	05/05/1994	269	No Data	13.5	96.6BN	855	2.2J	No Data	44.4	No Data
	05/05/1994	273	No Data	13.4	88.6BN	867	2.4J	No Data	44.9	No Data
	10/11/1994	338	No Data	12.3	95.9B	1060	3.45J	No Data	51.9	No Data
	04/18/1995	218	219	12.4	102B	681	2.1J	1.05U	33.3	33.4
	10/05/1995	351	347	10	156B	1110	3.65J	2.9J	56.5	52.9
	10/05/1995	346	349	9.98	138B	1090	3.56J	3.09J	55.9	52.7
	04/10/1996	324	326	8.2	162B	1020	2.15J	3.3J	51.4	50.2
Slade Spring	04/18/1995	213	215	19	77.5B	672	2.33J	2.4J	34.1	34.3
	10/05/1995	358	358	10.3	135B	1140	2.85J	3J	59.1	55.7
W-2	11/11/1992	356	No Data	15.7	114B	1140	4.41J	No Data	60.7	No Data
	11/11/1992	348	No Data	17	131B	1110	4.5J	No Data	58.8	No Data
	03/08/1993	204	No Data	113	148B	677	4.33J	No Data	40.6	No Data
	04/27/1993	195	No Data	53.1	175B	660	3.93	No Data	42.1	No Data
	04/27/1993	193	No Data	53.7	171B	654	3.69	No Data	41.9	No Data
	05/04/1994	52.7	No Data	452	1070N	308	62.1	No Data	42.8	No Data
	10/11/1994	149	No Data	283	51.0U	543	44	No Data	41.6	No Data
W-5	03/08/1993	145	No Data	54.3	127B	478	4.16J	No Data	28.2	No Data
	03/08/1993	150	No Data	54.1	125B	495	4.13J	No Data	29.2	No Data
	04/26/1993	193	No Data	36.1	145B	642	4.93	No Data	38.9	No Data
Downgradient - Upper Montezuma Creek										
01SW95-01	09/07/1995	321	317	22.9	117B	1020	4.3J	3.81J	51.9	50.6
	09/07/1995	323	316	22.5	118B	1020	3.64J	4J	51.3	50.1
02SW95-01	09/05/1995	319	314	35.8	119B	1030	5.25J	4.32J	56.2	55.8
03SW95-01	09/05/1995	313	311	38.2	112B	1020	4.54J	4.77J	57.4	57
04SW95-01	09/05/1995	123	122	93.6	120B	425	9.74	9.8	28.7	28.1
05SW95-01	09/05/1995	127	127	92.9	111B	436	9.54	9.45	28.8	28.4
21SW96-01	06/11/1996	272	272	31.8	165	914	4.79	3.74	57	57
	06/11/1996	270	267	31.7	171	905	4.54	4.17	56.1	55.6
22SW96-01	06/11/1996	259	260	33.2	163	878	4.68	4.86	56.1	56.2

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Sample was unfiltered.
[c]Sample was filtered in the field.
[d]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value.

Surface-Water Common Ions Data[a]

Sample Location	Sample Date	Na[b] (mg/L)	Na[c] (mg/L)	NH_4[d] (µg/L)	NO_2[d] (µg/L)	NO_3[d] (µg/L)	NO_3+NO_2-N[d] (µg/L)	SO_4[d] (mg/L)	TDS[d] (mg/L)
On-Site									
SW92-05	11/16/1992	66	No Data	53	24.7B	462	No Data	913	1760
	03/04/1993	70.1J	No Data	104	33.1B	3240	No Data	592	1350
	05/06/1993	28.2	No Data	23.0	28.7B	2960	No Data	254	630
	07/20/1993	19.1	No Data	71.0	16.4B	2240	No Data	257	594
	11/02/1993	49.7	No Data	32.9	No Data	No Data	2010	795	1572
	05/05/1994	41.8	No Data	64.6	No Data	No Data	827	638	1290
	05/05/1994	43.0	No Data	61.7	No Data	No Data	902	640	1270
	10/11/1994	51.5	No Data	51.9	No Data	No Data	446B	831	1540
	04/18/1995	35.5	34.5	61.4	No Data	No Data	837	480	1010
	10/05/1995	39.1	36.4	31.9	No Data	No Data	443B	908	1620
	10/05/1995	38.8	36.3	31.9	No Data	No Data	439B	912	1650
	04/10/1996	38.2	37.9	192	No Data	No Data	236B	825	1500
Slade Spring	04/18/1995	34.7	33.9	31.0	No Data	No Data	548	427	980
	10/05/1995	44.1	40.8	29.3	No Data	No Data	1110	916	1690
W-2	11/11/1992	66.9	No Data	116	21.8B	558B	No Data	898	1760
	11/11/1992	64.7	No Data	40	12.1B	578	No Data	909	1760
	03/08/1993	87.3J	No Data	160	77.2B	18500	No Data	368	1120
	04/27/1993	68.7	No Data	31.0	77.9B	10400	No Data	416	1058
	04/27/1993	68.3	No Data	38.0	52.1B	10500	No Data	400	1044
	05/04/1994	1060	No Data	258	No Data	No Data	5950	1380	3690
	10/11/1994	659	No Data	254	No Data	No Data	7290	1010	2680
W-5	03/08/1993	37.6J	No Data	104	29.6B	24600	No Data	196	698
	03/08/1993	39.3J	No Data	110	46.7B	25100	No Data	195	702
	04/26/1993	49.6	No Data	42.0	30.0B	7190	No Data	285	932
Downgradient - Upper Montezuma Creek									
01SW95-01	09/07/1995	57.6	55.6	31.3	No Data	No Data	230B	837	No Data
	09/07/1995	56.7	55.3	23.8	No Data	No Data	229B	838	No Data
02SW95-01	09/05/1995	81.5	78.5	41.4	No Data	No Data	230B	872	No Data
03SW95-01	09/05/1995	87	83.6	28.8	No Data	No Data	112B	880	No Data
04SW95-01	09/05/1995	98.7	93.9	2680	No Data	No Data	41.0B	272	No Data
05SW95-01	09/05/1995	99.1	95.3	1640	No Data	No Data	799	279	No Data
21SW96-01	06/11/1996	82.5	82.8	53.0	No Data	No Data	141	782	1440
	06/11/1996	82.1	81.3	60.0	No Data	No Data	150	782	1420
22SW96-01	06/11/1996	83.8	83.8	24.7	No Data	No Data	588	758	1370

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[c]Sample was filtered in the field.
[d]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value.

Surface-Water Common Ions Data[a]

Sample Location	Sample Date	Ca[b] (mg/L)	Ca[c] (mg/L)	Cl[d] (mg/L)	F[d] (µg/L)	Hardness[d] (mg/L)	K[b] (mg/L)	K[c] (mg/L)	Mg[b] (mg/L)	Mg[c] (mg/L)
Downgradient - Upper Montezuma Creek										
23SW96-01	06/11/1996	255	262	32.6	170	854	4.86	4.44	52.7	54.8
SW92-06	11/10/1992	239	No Data	67.5	190B	816	10.2	No Data	53.2	No Data
	03/01/1993	258	No Data	58.8	131B	856	4.05J	No Data	51.5	No Data
	05/05/1993	133	No Data	17.4	103B	426	1.92	No Data	22.8	No Data
	07/22/1993	130	No Data	12.7	112B	414	2.63J	No Data	21.8	No Data
	07/22/1993	130	No Data	12.7	99.6B	415	3.21J	No Data	21.9	No Data
	10/29/1993	318	No Data	25.3	155B	1020	4.02J	No Data	53.9	No Data
	05/04/1994	273	No Data	22.5	92.2BN	878	3.3J	No Data	47.6	No Data
	05/04/1994	278	No Data	22.8	103BN	892	2.8J	No Data	48.0	No Data
	10/06/1994	281	No Data	33.1	93.5B	920	6.21	No Data	53.1	No Data
	04/19/1995	218	228	24.1	73.1B	691	2.7J	2.01J	35.6	37.6
	10/03/1995	340	337	22	201	1080	3.9J	4.04J	56.7	54.4
SW92-07	11/17/1992	219	No Data	61.3	167B	762	8.82	No Data	52.2	No Data
	03/10/1993	202	No Data	62.1	149B	692	5.25	No Data	45.5	No Data
	05/05/1993	137	No Data	22.6	126B	445	2.08	No Data	24.9	No Data
	07/21/1993	137	No Data	16.6	127B	441	2.83J	No Data	24	No Data
	10/29/1993	262	No Data	46.7	104B	875	5.54	No Data	53.7	No Data
	05/03/1994	254	No Data	35.6	105BN	846	4.1J	No Data	51.4	No Data
	10/05/1994	205	No Data	49	149B	702	5.83	No Data	46.1	No Data
	04/19/1995	214	217	36.6	83.3B	702	3.73J	3.15J	40.7	41.9
	10/03/1995	153	152	90.5	218	518	9.91	9.31	32.9	31.4
	04/09/1996	301	308	27.9	164B	983	2.84J	3.94J	56.2	55.8
	06/26/1996	243	No Data	41.5	180B	837	5.33J	No Data	55.9	No Data
Sorenson	11/10/1992	243	No Data	66.5	165B	840	8.2	No Data	56.6	No Data
	03/09/1993	211	No Data	52	146B	704	5.06	No Data	43	No Data
	05/05/1993	137	No Data	21.8	125B	443	1.53	No Data	24.6	No Data
	07/20/1993	146	No Data	21.6	127B	477	4.15J	No Data	27.3	No Data
	10/28/1993	291	No Data	46.3	168B	965	5.34	No Data	58	No Data
	05/03/1994	272	No Data	34.1	103BN	890	3.9J	No Data	51.2	No Data
	10/06/1994	260	No Data	49.9	80.5B	879	6.39	No Data	55.8	No Data
	04/19/1995	216	235	35	66.8B	698	3.12J	2.07J	38.6	42
	04/19/1995	225	228	35	72.3B	729	3.37J	2.55J	40.6	41.6
	10/03/1995	332	325	35.4	224	1080	4.99J	4.92J	60.8	57.5
	04/09/1996	311	324	26.8	174B	1010	2.97J	4.45J	56.9	58.5
	04/09/1996	312	314	26.9	178B	1010	3.19J	3.99J	57	56.3
	06/26/1996	307	No Data	41.4	185B	1010	4.87J	No Data	59.9	No Data

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[d]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value.

Surface-Water Common Ions Data[a]

Sample Location	Sample Date	Na[b] (mg/L)	Na[c] (mg/L)	NH_4[d] (µg/L)	NO_2[d] (µg/L)	NO_3[d] (µg/L)	NO_3+NO_2-N[d] (µg/L)	SO_4[d] (mg/L)	TDS[d] (mg/L)
Downgradient - Upper Montezuma Creek									
23SW96-01	06/11/1996	80	82.7	41.2	No Data	No Data	59.8	717	1020
SW92-06	11/10/1992	159	No Data	34	9.3B	82.8B	No Data	666	1620
	03/01/1993	81.9J	No Data	60.0	28.8B	1940	No Data	649	1420
	05/05/1993	37.5	No Data	42.0	27.4B	3350	No Data	264	654
	07/22/1993	35.1	No Data	59.0	22.9B	3680	No Data	279	676
	07/22/1993	51.8	No Data	45.0	26.1B	4150	No Data	277	652
	10/29/1993	73.9J	No Data	43.6	No Data	No Data	1480	755	1566
	05/04/1994	62.6	No Data	102	No Data	No Data	939	662	1340
	05/04/1994	61.3	No Data	111	No Data	No Data	882	665	1360
	10/06/1994	94.5	No Data	84.1	No Data	No Data	260B	800	1530
	04/19/1995	53.4	54.7	69.6	No Data	No Data	569	522	1130
	10/03/1995	57.9	54.8	26.7	No Data	No Data	293B	906	1620
SW92-07	11/17/1992	152	No Data	33	6.0U	1720	No Data	661	1480
	03/10/1993	95J	No Data	100	55.6B	6190	No Data	526	1220
	05/05/1993	46.6	No Data	45.0	27.3B	3060	No Data	293	692
	07/21/1993	40.7	No Data	68.0	24.7B	2600	No Data	300	792
	10/29/1993	105J	No Data	46.3	No Data	No Data	760	677	1510
	05/03/1994	82.4	No Data	76.1	No Data	No Data	677	688	1380
	10/05/1994	105	No Data	69.5	No Data	No Data	156B	599	1250
	04/19/1995	74.3	74.2	33.8	No Data	No Data	263B	553	1180
	10/03/1995	100	94.2	3680	No Data	No Data	290B	327	935
	04/09/1996	70.6	70.7	37.6	No Data	No Data	353B	828	1550
	06/26/1996	92.5	No Data	No Data	No Data	No Data	76.0B	800	No Data
Sorenson	11/10/1992	165	No Data	31	63.4B	128B	No Data	696	1580
	03/09/1993	85.5J	No Data	92.0	41.0B	3620	No Data	507	1190
	05/05/1993	44.6	No Data	38.0	29.5B	3090	No Data	291	710
	07/20/1993	51.1	No Data	68.0	25.3B	2410	No Data	347	788
	10/28/1993	106J	No Data	51.7	No Data	No Data	913	787	1630
	05/03/1994	75.8	No Data	90.6	No Data	No Data	848	703	1440
	10/06/1994	114	No Data	75.3	No Data	No Data	223B	802	1610
	04/19/1995	66.6	70.6	64.1	No Data	No Data	405B	567	1220
	04/19/1995	70	70.6	42.1	No Data	No Data	399B	563	1200
	10/03/1995	83.2	78.1	24.1	No Data	No Data	366B	895	1700
	04/09/1996	67.4	70.7	27.3	No Data	No Data	395B	858	1580
	04/09/1996	67.7	68.4	32.4	No Data	No Data	395B	862	1590
	06/26/1996	91.2	No Data	No Data	No Data	No Data	275	881	No Data

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Surface-Water Common Ions Data[a]

Sample Location	Sample Date	Ca[b] (mg/L)	Ca[c] (mg/L)	Cl[d] (mg/L)	F[d] (µg/L)	Hardness[d] (mg/L)	K[b] (mg/L)	K[c] (mg/L)	Mg[b] (mg/L)	Mg[c] (mg/L)
Downgradient - Upper Montezuma Creek										
W-4	11/10/1992	234	No Data	55	267	784	14.4	No Data	48.4	No Data
	03/01/1993	277	No Data	53	123B	910	3.75J	No Data	52.9	No Data
	05/05/1993	128	No Data	18.1	110B	407	1.65	No Data	21.3	No Data
	07/21/1993	121	No Data	8	115B	382	1.95J	No Data	19.4	No Data
	10/28/1993	324	No Data	15.4	163B	1030	3.93J	No Data	53.2	No Data
	10/28/1993	322	No Data	15	100B	1020	3.57J	No Data	52.8	No Data
	05/03/1994	272	No Data	17.5	105BN	869	3.0J	No Data	46.0	No Data
	10/06/1994	322	No Data	21.2	98.7B	1020	4.47J	No Data	51.7	No Data
	10/06/1994	294	No Data	21	90.6B	942	4.75J	No Data	50.6	No Data
	04/18/1995	218	221	18.6	91.8B	688	2.72J	1.86J	34.8	35.5
	04/18/1995	207	221	18.3	75.0B	654	2.41J	1.75J	33.3	35.4
	10/03/1995	349	348	13.5	197B	1100	3.56J	3.84J	54.6	53
Downgradient - Off-Site										
18SW96-01	06/11/1996	208	209	72.9	225	775	4.77	5.12	62	62.1
19SW96-01	06/11/1996	190	189	62.8	201	717	5.69	5.51	58.8	58.6
20SW96-01	06/11/1996	212	214	41.3	183	760	4.94	5.85	56.1	56.1
Montezuma Creek										
	11/15/1992	101	No Data	37.5E	127B	367	3.24J	No Data	27.8	No Data
	03/01/1993	119	No Data	44	178B	416	4.14J	No Data	28.8	No Data
	04/22/1993	45	No Data	3.82	75.7B	136	2.77	No Data	5.84	No Data
	07/22/1993	118	No Data	24	112B	402	3.12J	No Data	26.1	No Data
	10/28/1993	178	No Data	70.9	189B	633	5.54	No Data	45.8	No Data
	05/02/1994	196	No Data	68.6	144BN	714	5.2	No Data	54.5	No Data
	10/07/1994	183	No Data	96.9	116B	688	6.15	No Data	56.2	No Data
	04/19/1995	172	173	64.8	84.6B	608	4.24J	3.28J	43.3	43.9
	10/04/1995	159	159	89.7	242	549	9.2	8.54	36.8	34.6
Downgradient - Middle Montezuma Creek										
24SW96-01	06/11/1996	256	258	30.6	172	860	3.81	3.62	53.6	54.2
25SW96-01	06/11/1996	258	257	29.9	169	866	3.72	3.69	53.9	53.6
Downgradient - Lower Montezuma Creek										
06SW95-01	09/06/1995	128	127	91.8	131B	439	9.72	9.89	29	28.5

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Surface-Water Common Ions Data[a]

Sample Location	Sample Date	Na[b] (mg/L)	Na[c] (mg/L)	NH_4[d] (µg/L)	NO_2[d] (µg/L)	NO_3[d] (µg/L)	NO_3+NO_2-N[d] (µg/L)	SO_4[d] (mg/L)	TDS[d] (mg/L)
Downgradient - Upper Montezuma Creek									
W-4	11/10/1992	170	No Data	87	37.9B	3100	No Data	724	1520
	03/01/1993	69.8J	No Data	142	18.8B	2780	No Data	650	1410
	05/05/1993	34.9	No Data	48.0	24.4B	3250	No Data	245	614
	07/21/1993	23.6	No Data	65.0	19.7B	2920	No Data	257	588
	10/28/1993	57.6J	No Data	38.3	No Data	No Data	1840	756	1512
	10/28/1993	57J	No Data	32.9	No Data	No Data	1880	768	1538
	05/03/1994	52.8	No Data	114	No Data	No Data	943	656	1310
	10/06/1994	66.9	No Data	107	No Data	No Data	468B	803	1520
	10/06/1994	65.4	No Data	119	No Data	No Data	486B	794	1550
	04/18/1995	47.2	47.2	53.1	No Data	No Data	550	504	1070
	04/18/1995	45.1	46.9	50.3	No Data	No Data	538	503	1070
	10/03/1995	44.8	42.4	52.5	No Data	No Data	436B	901	1640
Downgradient - Off-Site									
18SW96-01	06/11/1996	147	147	17.6B	No Data	No Data	7.0U	724	1380
19SW96-01	06/11/1996	132	131	24.7	No Data	No Data	7.0U	638	1250
20SW96-01	06/11/1996	117	117	34.1	No Data	No Data	7.0U	749	1340
Montezuma Creek									
	11/15/1992	71.1	No Data	14	6.0U	49.5B	No Data	238	680
	03/01/1993	91.2J	No Data	136	6.7B	360	No Data	275	766
	04/22/1993	5.28	No Data	21.0	7.4B	181B	No Data	46.4	168B
	07/22/1993	56	No Data	62.0	6.1B	83.2B	No Data	319	786
	10/28/1993	122J	No Data	38.3	No Data	No Data	18.0B	500	1217
	05/02/1994	128	No Data	53.1	No Data	No Data	18.5B	637	1340
	10/07/1994	166	No Data	248	No Data	No Data	60.6B	680	1460
	04/19/1995	109	107	33.8	No Data	No Data	15.2B	495	1140
	10/04/1995	109	102	834	No Data	No Data	1200	357	998
Downgradient - Middle Montezuma Creek									
24SW96-01	06/11/1996	78.3	78.9	41.2	No Data	No Data	28.4B	728	1350
25SW96-01	06/11/1996	78.6	78.5	34.1	No Data	No Data	19.1B	726	1340
Downgradient - Lower Montezuma Creek									
06SW95-01	09/06/1995	98.7	95.5	1410	No Data	No Data	971	272	No Data

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[d]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value.

Surface-Water Common Ions Data[a]

Sample Location	Sample Date	Ca[b] (mg/L)	Ca[c] (mg/L)	Cl[d] (mg/L)	F[d] (μg/L)	Hardness[d] (mg/L)	K[b] (mg/L)	K[c] (mg/L)	Mg[b] (mg/L)	Mg[c] (mg/L)
Downgradient - Lower Montezuma Creek										
07SW95-01	09/06/1995	129	128	91.8	144B	442	8.93	8.82	29.1	28.4
08SW95-01	09/06/1995	129	128	92.1	133B	442	10.2	10.1	29.2	28.6
09SW95-01	09/06/1995	127	127	92.5	138B	437	9.63	9.71	29	28.4
Cabin Spring	10/17/1995	110	104	84	454	366	5.82	2.69J	22.1	19.9
SW92-08	11/17/1992	201	No Data	59.4	185B	703	7.34	No Data	48.8	No Data
	03/10/1993	200	No Data	64.1	151B	690	5.48	No Data	46.2	No Data
	05/05/1993	133	No Data	20.6	108B	433	1.82	No Data	24.4	No Data
	07/22/1993	127	No Data	16.5	101B	412	2.62J	No Data	23	No Data
	11/01/1993	264	No Data	46.2	97.0B	885	4.93J	No Data	54.8	No Data
	05/03/1994	244	No Data	36.4	124BN	818	4.4J	No Data	50.8	No Data
	10/06/1994	173	No Data	45.4	140B	598	4.92J	No Data	40.2	No Data
	04/20/1995	213	214	37.6	75.5B	700	3.99J	2.54J	40.9	41.3
	10/04/1995	157	158	89.2	243	533	9.1	8.97	34.3	32.5
SW92-09	11/17/1992	204	No Data	63.2	162B	712	7.51	No Data	49.3	No Data
	03/10/1993	200	No Data	69.7	154B	695	5.31	No Data	47.4	No Data
	05/05/1993	134	No Data	23.7	122B	438	2.88	No Data	25	No Data
	07/22/1993	125	No Data	17.2	110B	411	1.87J	No Data	23.9	No Data
	11/01/1993	255	No Data	49.1	157B	860	6.53	No Data	54.3	No Data
	05/03/1994	235	No Data	38.5	110BN	788	4.1J	No Data	48.9	No Data
	10/06/1994	177	No Data	46.5	146B	612	5.6	No Data	41.2	No Data
	04/20/1995	201	211	39.2	99.6B	663	3.4J	3.24J	39.2	41.6
	10/04/1995	159	158	89.1	232	539	9.51	8.57	34.4	32.2
SW94-01	10/04/1995	159	158	88.3	199B	541	10.4	8.62	34.9	32.3
	02/16/1996	293	293	39.6	186B	973	4.56J	3.46J	58.6	57.3
	02/16/1996	294	295	65.9	334	976	4.46J	4.06J	58.8	57.3
	04/09/1996	269	274	32.2	222	894	4.17J	3.49J	54	53.8
	06/26/1996	241	No Data	43.2	196B	834	4.18J	No Data	56.3	No Data
Crossgradient - Off-Site										
Pehrson 1	05/06/1994	137	No Data	38.7	312N	451	0.74U	No Data	26.4	No Data
	10/10/1994	152	No Data	74.7	346	531	.672U	No Data	36.7	No Data
Pehrson 2	05/06/1994	154	No Data	66.1	364N	590	8.6	No Data	50.0	No Data
	04/19/1995	133	132	52.6	242	489	1.55J	1.05U	38	38.2
Upper North Drainage	05/06/1994	103	No Data	316	164BN	332	9.8	No Data	18.1	No Data
	10/12/1994	133	No Data	823	129B	435	23.7	No Data	25.1	No Data

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Sample was unfiltered.
[c]Sample was filtered in the field.
[d]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value.

Surface-Water Common Ions Data[a]

Sample Location	Sample Date	Na[b] (mg/L)	Na[c] (mg/L)	NH_4[d] (µg/L)	NO_2[d] (µg/L)	NO_3[d] (µg/L)	NO_3+NO_2-N[d] (µg/L)	SO_4[d] (mg/L)	TDS[d] (mg/L)
Downgradient - Lower Montezuma Creek									
07SW95-01	09/06/1995	98.9	94.7	1220	No Data	No Data	1030	274	No Data
08SW95-01	09/06/1995	99.3	95.7	1110	No Data	No Data	1100	272	No Data
09SW95-01	09/06/1995	98.6	95.8	952	No Data	No Data	1140	273	No Data
Cabin Spring	10/17/1995	63.1	63.6	18.1B	No Data	No Data	1060	240	605
SW92-08	11/17/1992	141	No Data	36	6.0U	49.2B	No Data	588	1300
	03/10/1993	98.7J	No Data	48.0	45.0B	3900	No Data	538	1240
	05/05/1993	45.4	No Data	57.0	24.3B	2720	No Data	279	686
	07/22/1993	40.3	No Data	62.0	19.6B	1820	No Data	298	686
	11/01/1993	108	No Data	46.3	No Data	No Data	609	683	1492
	05/03/1994	86.1	No Data	128	No Data	No Data	381	647	1340
	10/06/1994	94.7	No Data	68.8	No Data	No Data	67.1B	517	1110
	04/20/1995	76.6	74.9	44.8	No Data	No Data	108B	542	1180
	10/04/1995	100	94.2	2430	No Data	No Data	1280	349	968
SW92-09	11/17/1992	144	No Data	61	6.0U	105B	No Data	602	1320
	03/10/1993	106J	No Data	68.0	37.0B	2930	No Data	535	1220
	05/05/1993	48.5	No Data	72.0	36.2B	2640	No Data	294	702
	07/22/1993	41.6	No Data	53.0	15.4B	1500	No Data	301	706
	11/01/1993	109	No Data	46.3	No Data	No Data	482	730	1442
	05/03/1994	85.8	No Data	145	No Data	No Data	328	644	1310
	10/06/1994	98.2	No Data	499	No Data	No Data	58.5B	508	1070
	04/20/1995	75.5	77.5	31.0	No Data	No Data	36.5B	545	1190
	10/04/1995	101	94.2	2350	No Data	No Data	1300	344	960
SW94-01	10/04/1995	102	94.4	2260	No Data	No Data	1350	344	975
	02/16/1996	94.6	91.3	82.5	No Data	No Data	457*	809	1590
	02/16/1996	94.3	91.8	87.5	No Data	No Data	457*	275	1590
	04/09/1996	78	78.6	29.9	No Data	No Data	56.5B	772	1450
	06/26/1996	95.5	No Data	No Data	No Data	No Data	7.0B	782	No Data
Crossgradient - Off-Site									
Pehrson 1	05/06/1994	60.6	No Data	64.6	No Data	No Data	187	68.1	646
	10/10/1994	94.6	No Data	202	No Data	No Data	108B	65.5	810
Pehrson 2	05/06/1994	190	No Data	3990	No Data	No Data	74.4B	118	1150
	04/19/1995	153	151	42.1	No Data	No Data	14.3B	132	1020
Upper North Drainage	05/06/1994	203	No Data	370	No Data	No Data	1230	25.6	1020
	10/12/1994	438	No Data	1890	No Data	No Data	2430	41.2	1900

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[b]Sample was unfiltered.
[c]Sample was filtered in the field.
[d]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value. * -- Duplicate analysis is not within control limits.

Surface-Water Metals Data[a]

Sample Location	Sample Date	Ag[b] (µg/L)	Ag[c] (µg/L)	Al[b] (µg/L)	Al[c] (µg/L)	As[b] (µg/L)	As[c] (µg/L)	B[b] (µg/L)	B[c] (µg/L)	Ba[b] (µg/L)
Reference - West of 191										
SW92-01	11/16/1992	6.0U	No Data	377	No Data	3.9J	No Data	43.6J	No Data	33.5J
	11/16/1992	6.0U	No Data	177J	No Data	2.0UJ	No Data	42.0U	No Data	32.7J
	03/02/1993	4.0U	No Data	75.9J	No Data	3.0U	No Data	96.9J	No Data	28.0J
	04/19/1993	4.0U	No Data	107	No Data	3.0UJ	No Data	74.2J	No Data	41.0J
	07/19/1993	7.0U	No Data	310	No Data	3.0U	No Data	30.7J	No Data	41.1J
	10/27/1993	1.0U	No Data	31.4J	No Data	4.0UJ	No Data	54.8J	No Data	38.8J
	05/03/1994	4.0U	No Data	112J	No Data	2.0U	No Data	47.2J	No Data	24.7J
	10/05/1994	1.0UJ	1.0U	82.7J	10.0U	2.0UJ	2.0U	2.0UJ	2.0U	29.0J
	04/17/1995	1.0UJ	1.0U	78.7J	11.0U	1.0U	1.5J	10.3J	12.8J	26.5J
	10/02/1995	No Data	No Data	65.7J	12.0U	1.1U	1.0U	6.0U	6.0U	No Data
	06/26/1996	No Data	No Data	562	No Data	2.5J	No Data	No Data	No Data	No Data
	06/26/1996	No Data	No Data	724	No Data	1.4J	No Data	No Data	No Data	No Data
SW92-02	11/17/1992	6.0U	No Data	51.0J	No Data	3.2J	No Data	42.0U	No Data	78.5J
	03/02/1993	4.0U	No Data	15.8J	No Data	3.0U	No Data	43.1J	No Data	47.8J
	03/02/1993	4.0U	No Data	47.7J	No Data	3.0U	No Data	58.1J	No Data	52.4J
	04/20/1993	4.0U	No Data	405	No Data	3.0U	No Data	61.2J	No Data	54.5J
	07/20/1993	7.0U	No Data	207	No Data	3.0U	No Data	41.2J	No Data	67.1J
	10/27/1993	1.0U	No Data	178J	No Data	4.0U	No Data	41.5J	No Data	92.2J
	05/02/1994	4.0U	No Data	126J	No Data	2.0U	No Data	31.6J	No Data	85.8J
	10/05/1994	1.0UJ	1.0U	361	10.0U	2.3J	2.0U	2.0UJ	2.0U	92.6J
	04/17/1995	1.0UJ	1.0U	191J	11.0U	1.0U	1.0U	8.0U	10.6J	85.8J
	10/02/1995	No Data	No Data	214J	12.0U	1.1U	1.3J	6.0U	6.0U	No Data
SW92-03	03/09/1993	4.0U	No Data	50.0J	No Data	3.0U	No Data	43.0J	No Data	66.9J
	05/05/1993	4.0U	No Data	143J	No Data	3.0U	No Data	30.1J	No Data	53.9J
	07/20/1993	7.0U	No Data	126J	No Data	3.0U	No Data	31.2J	No Data	40.8J
	10/28/1993	1.0U	No Data	29.0U	No Data	4.0UJ	No Data	50.5J	No Data	53.2J
	10/28/1993	1.0U	No Data	29.0U	No Data	4.0UJ	No Data	48.5J	No Data	54.0J
	05/02/1994	4.0U	No Data	394	No Data	2.0U	No Data	37.4J	No Data	67.5J
	10/05/1994	1.0UJ	1.0U	149J	10.0U	2.0UJ	2.0U	2.0UJ	2.0U	72.4J
	04/17/1995	1.0UJ	1.0U	171J	11.0U	1.0U	1.0U	8.0U	14.5J	54.1J
	10/03/1995	No Data	No Data	92.4J	12.0U	1.1U	1.0U	6.0U	6.0U	No Data
	10/03/1995	No Data	No Data	81.7J	12.0U	1.1U	1.0U	6.0U	6.0U	No Data
Reference - Verdure										
10SW95-01	09/06/1995	No Data	No Data	186J	20.0U	1.1U	1.4J	28.8J	33.8J	No Data

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Sample was unfiltered.
[c]Sample was filtered in the field.

Surface-Water Metals Data[a]

Sample Location	Sample Date	Ba[c] (µg/L)	Be[b] (µg/L)	Cd[b] (µg/L)	Cd[c] (µg/L)	CN[d] (µg/L)	Co[b] (µg/L)	Co[c] (µg/L)	Cr[b] (µg/L)	Cr[c] (µg/L)
Reference - West of 191										
SW92-01	11/16/1992	No Data	1.0U	1.0U	No Data	10.0U	10.0U	No Data	6.0U	No Data
	11/16/1992	No Data	1.0U	1.0U	No Data	10.0U	10.0U	No Data	6.0U	No Data
	03/02/1993	No Data	1.0U	1.0U	No Data	10.0U	6.6J	No Data	4.9J	No Data
	04/19/1993	No Data	1.0U	1.0U	No Data	4.0U	No Data	No Data	3.0U	No Data
	07/19/1993	No Data	1.0U	1.0U	No Data	4.0U	No Data	No Data	4.0U	No Data
	10/27/1993	No Data	No Data	1.0U	No Data	No Data	No Data	No Data	4.0U	No Data
	05/03/1994	No Data	No Data	1.0U	No Data	No Data	No Data	No Data	4.0U	No Data
	10/05/1994	30.3J	No Data	1.0U	1.0U	No Data	No Data	No Data	2.0U	2.0U
	04/17/1995	34.7J	No Data	1.0U	1.0U	No Data	8.0U	8.0U	4.0U	4.0U
	10/02/1995	No Data	No Data	No Data	No Data	No Data	6.7U	6.0U	No Data	No Data
	06/26/1996	No Data	No Data	No Data	No Data	No Data	6.6U	No Data	No Data	No Data
	06/26/1996	No Data	No Data	No Data	No Data	No Data	6.6U	No Data	No Data	No Data
SW92-02	11/17/1992	No Data	1.0U	1.0U	No Data	10.0U	10.0U	No Data	6.0U	No Data
	03/02/1993	No Data	1.0U	1.0U	No Data	10.0U	6.0U	No Data	3.0U	No Data
	03/02/1993	No Data	1.0U	1.0U	No Data	10.0U	6.0U	No Data	3.0U	No Data
	04/20/1993	No Data	1.0U	1.0U	No Data	4.0U	No Data	No Data	3.0U	No Data
	07/20/1993	No Data	1.0U	1.0U	No Data	4.0U	No Data	No Data	4.0U	No Data
	10/27/1993	No Data	No Data	1.0U	No Data	No Data	No Data	No Data	4.0U	No Data
	05/02/1994	No Data	No Data	1.0U	No Data	No Data	No Data	No Data	4.0U	No Data
	10/05/1994	89.8J	No Data	1.0U	1.0U	No Data	No Data	No Data	2.0U	2.0U
	04/17/1995	97.2J	No Data	1.0U	1.0U	No Data	8.0U	8.0U	4.0U	4.0U
	10/02/1995	No Data	No Data	No Data	No Data	No Data	6.7U	6.0U	No Data	No Data
SW92-03	03/09/1993	No Data	1.0U	1.0U	No Data	10.0U	6.0U	No Data	3.0U	No Data
	05/05/1993	No Data	1.0U	1.0U	No Data	4.0U	No Data	No Data	3.0U	No Data
	07/20/1993	No Data	1.0U	1.0U	No Data	4.0U	No Data	No Data	4.0U	No Data
	10/28/1993	No Data	No Data	1.0U	No Data	No Data	No Data	No Data	4.0U	No Data
	10/28/1993	No Data	No Data	1.0U	No Data	No Data	No Data	No Data	4.0U	No Data
	05/02/1994	No Data	No Data	1.0U	No Data	No Data	No Data	No Data	4.0U	No Data
	10/05/1994	74.5J	No Data	1.0U	1.0U	No Data	No Data	No Data	2.0U	2.0U
	04/17/1995	56.8J	No Data	1.0U	1.0U	No Data	8.0U	8.0U	4.0U	4.0U
	10/03/1995	No Data	No Data	No Data	No Data	No Data	6.7U	6.0U	No Data	No Data
	10/03/1995	No Data	No Data	No Data	No Data	No Data	6.7U	6.0U	No Data	No Data
Reference - Verdure										
10SW95-01	09/06/1995	No Data	No Data	No Data	No Data	No Data	4.4U	4.0U	No Data	No Data

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[b]Sample was unfiltered.
[c]Sample was filtered in the field.
[d]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value.

Surface-Water Metals Data[a]

Sample Location	Sample Date	Cu[b] (µg/L)	Cu[c] (µg/L)	Fe[b] (µg/L)	Fe[c] (µg/L)	Hg[b] (µg/L)	Mn[b] (µg/L)	Mn[c] (µg/L)	Mo[b] (µg/L)	Mo[c] (µg/L)
Reference - West of 191										
SW92-01	11/16/1992	4.0U	No Data	462	No Data	0.10U	110	No Data	2.4J	No Data
	11/16/1992	4.0U	No Data	240	No Data	0.10U	72.4	No Data	2.4J	No Data
	03/02/1993	3.0U	No Data	164J	No Data	0.10U	115	No Data	22.0U	No Data
	04/19/1993	3.0U	No Data	267	No Data	0.10U	97.9	No Data	17.9J	No Data
	07/19/1993	5.0U	No Data	544	No Data	0.10U	43.7	No Data	1.3J	No Data
	10/27/1993	3.0U	No Data	144	No Data	No Data	122	No Data	2.9J	No Data
	05/03/1994	2.0U	No Data	265	No Data	No Data	114	No Data	27.0U	No Data
	10/05/1994	4.0U	4.0U	150	6.0U	No Data	119	117	2.4J	3.2J
	04/17/1995	3.0U	3.0U	214	5.0U	No Data	45.6	42.2	2.1J	2.0J
	10/02/1995	4.4U	4.0U	No Data	No Data	No Data	191	181	15.6U	14.0U
	06/26/1996	3.7U	No Data	No Data	No Data	No Data	95.3	No Data	3.0J	No Data
	06/26/1996	3.7U	No Data	No Data	No Data	No Data	95.7	No Data	3.3J	No Data
SW92-02	11/17/1992	4.0U	No Data	10.0U	No Data	0.10U	9.4J	No Data	2.6J	No Data
	03/02/1993	3.0U	No Data	9.5J	No Data	0.10U	1.4J	No Data	22.0U	No Data
	03/02/1993	3.0U	No Data	50.1J	No Data	0.10U	16.8	No Data	22.0U	No Data
	04/20/1993	3.0U	No Data	392	No Data	0.10U	37.2	No Data	20.2J	No Data
	07/20/1993	5.0U	No Data	275	No Data	0.10U	18.0	No Data	2.1J	No Data
	10/27/1993	3.0U	No Data	255	No Data	No Data	23.2	No Data	1.8J	No Data
	05/02/1994	2.0U	No Data	132	No Data	No Data	23.0	No Data	27.0U	No Data
	10/05/1994	4.0U	4.0U	375	6.0U	No Data	17.6	3.0J	1.0U	1.7J
	04/17/1995	3.0J	3.0U	268	6.6J	No Data	34.1	20.7	1.7J	2.1J
	10/02/1995	4.4U	4.0U	No Data	No Data	No Data	10.5J	2.0J	15.6U	14.0U
SW92-03	03/09/1993	3.0U	No Data	72.2J	No Data	0.10U	17.9	No Data	22.0U	No Data
	05/05/1993	3.0U	No Data	177	No Data	0.10U	38.3	No Data	2.2J	No Data
	07/20/1993	5.0U	No Data	177	No Data	0.10U	21.6	No Data	1.0U	No Data
	10/28/1993	3.0U	No Data	35.8J	No Data	No Data	6.6J	No Data	2.7J	No Data
	10/28/1993	3.0U	No Data	28.7J	No Data	No Data	6.7J	No Data	2.5J	No Data
	05/02/1994	2.0U	No Data	430	No Data	No Data	37.4	No Data	27.0U	No Data
	10/05/1994	4.0U	4.0U	153	6.0U	No Data	11.2J	7.5J	1.8J	2.4J
	04/17/1995	3.0U	5.6J	230	5.0U	No Data	22.4	12.8J	1.7J	1.9J
	10/03/1995	4.4U	4.0U	No Data	No Data	No Data	13.1J	11.9J	15.6U	15.9J
	10/03/1995	4.4U	4.0U	No Data	No Data	No Data	11.8J	11.9J	15.6U	14.0U
Reference - Verdure										
10SW95-01	09/06/1995	5.6U	5.0U	No Data	No Data	No Data	24.9	21.9	28.9U	26.0U

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Sample was unfiltered.
[c]Sample was filtered in the field.

Surface-Water Metals Data[a]

Sample Location	Sample Date	Ni[b] (µg/L)	Ni[c] (µg/L)	Pb[b] (µg/L)	Pb[c] (µg/L)	Sb[b] (µg/L)	Sb[c] (µg/L)	Se[b] (µg/L)	Se[c] (µg/L)	Sn[b] (µg/L)
Reference - West of 191										
SW92-01	11/16/1992	11.0U	No Data	1.0U	No Data	1.0U	No Data	2.0U	No Data	No Data
	11/16/1992	17.2J	No Data	1.0U	No Data	1.0U	No Data	2.0U	No Data	No Data
	03/02/1993	9.0U	No Data	1.0UJ	No Data	1.0U	No Data	2.0UJ	No Data	No Data
	04/19/1993	10.0J	No Data	3.4J	No Data	1.0U	No Data	9.7	No Data	No Data
	07/19/1993	14.0U	No Data	7.1	No Data	1.0J	No Data	3.0UJ	No Data	No Data
	10/27/1993	11.0U	No Data	1.0U	No Data	No Data	No Data	2.0UJ	No Data	No Data
	05/03/1994	6.0U	No Data	1.0U	No Data	No Data	No Data	3.0J	No Data	No Data
	10/05/1994	8.0U	8.0U	1.0U	1.0U	No Data	No Data	2.0U	2.0U	No Data
	04/17/1995	9.0U	9.0U	1.0U	1.0U	No Data	No Data	1.0U	1.0U	1.0U
	10/02/1995	No Data	No Data	No Data	No Data	35.6U	32.0U	1.1U	1.0UJ	1.1U
	06/26/1996	No Data	No Data	1.4J	No Data	No Data	No Data	1.7UJ	No Data	No Data
	06/26/1996	No Data	No Data	1.8J	No Data	No Data	No Data	1.7UJ	No Data	No Data
SW92-02	11/17/1992	12.5J	No Data	1.0U	No Data	1.0U	No Data	2.0U	No Data	No Data
	03/02/1993	9.0U	No Data	1.0UJ	No Data	1.0U	No Data	2.0UJ	No Data	No Data
	03/02/1993	11.2J	No Data	1.0UJ	No Data	1.0U	No Data	2.4J	No Data	No Data
	04/20/1993	9.0U	No Data	3.2J	No Data	1.0U	No Data	2.3J	No Data	No Data
	07/20/1993	14.0U	No Data	1.1J	No Data	1.0U	No Data	3.0U	No Data	No Data
	10/27/1993	11.0U	No Data	1.0U	No Data	No Data	No Data	2.0UJ	No Data	No Data
	05/02/1994	6.0U	No Data	1.0U	No Data	No Data	No Data	1.9J	No Data	No Data
	10/05/1994	8.0U	8.0U	1.0U	1.0U	No Data	No Data	2.0U	2.0U	No Data
	04/17/1995	9.0U	9.0U	1.0U	1.0U	No Data	No Data	1.0J	1.0U	1.0U
	10/02/1995	No Data	No Data	No Data	No Data	35.6U	32.0U	1.1U	1.0UJ	1.1U
SW92-03	03/09/1993	9.0U	No Data	1.0UJ	No Data	1.4J	No Data	2.3J	No Data	No Data
	05/05/1993	9.0U	No Data	1.0U	No Data	1.0U	No Data	4.1J	No Data	No Data
	07/20/1993	14.0U	No Data	1.0U	No Data	1.0U	No Data	3.0U	No Data	No Data
	10/28/1993	11.0U	No Data	24.5	No Data	No Data	No Data	2.0UJ	No Data	No Data
	10/28/1993	11.0U	No Data	1.0U	No Data	No Data	No Data	2.0UJ	No Data	No Data
	05/02/1994	6.0U	No Data	1.0U	No Data	No Data	No Data	1.8J	No Data	No Data
	10/05/1994	8.0U	8.0U	1.0U	1.0U	No Data	No Data	2.0U	2.0U	No Data
	04/17/1995	9.0U	9.0U	1.0U	1.0U	No Data	No Data	1.0U	1.1J	1.0U
	10/03/1995	No Data	No Data	No Data	No Data	35.6U	32.0U	1.1UJ	1.0UJ	1.1U
	10/03/1995	No Data	No Data	No Data	No Data	35.6U	32.0U	1.1U	1.0UJ	1.1U
Reference - Verdure										
10SW95-01	09/06/1995	No Data	No Data	No Data	No Data	No Data	No Data	2.2U	2.0U	1.1U

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Sample was unfiltered.
[c]Sample was filtered in the field.

Surface-Water Metals Data[a]

Sample Location	Sample Date	Sn[c] (µg/L)	Sr[b] (µg/L)	Tl[b] (µg/L)	Tl[c] (µg/L)	U[b] (µg/L)	U[c] (µg/L)	V[b] (µg/L)	V[c] (µg/L)	Zn[b] (µg/L)
Reference - West of 191										
SW92-01	11/16/1992	No Data	2910	1.0U	No Data	3.6J	No Data	7.0U	No Data	9.4J
	11/16/1992	No Data	2960	1.0U	No Data	3.5J	No Data	7.0U	No Data	13.2J
	03/02/1993	No Data	2620	1.0U	No Data	2.9J	No Data	4.0U	No Data	19.6J
	04/19/1993	No Data	3490	2.0U	No Data	1.0U	No Data	4.0U	No Data	3.0U
	07/19/1993	No Data	855	1.0U	No Data	1.0U	No Data	8.0U	No Data	3.0U
	10/27/1993	No Data	No Data	1.0U	No Data	5.6	No Data	5.0U	No Data	9.7J
	05/03/1994	No Data	No Data	1.0U	No Data	4.5J	No Data	5.0U	No Data	11.3J
	10/05/1994	No Data	No Data	1.0U	1.0U	3.5J	3.6J	6.0U	6.0U	8.8J
	04/17/1995	1.0U	No Data	1.0U	1.0U	1.9J	No Data	4.0U	4.0U	5.9J
	10/02/1995	1.0U	No Data	No Data	No Data	No Data	No Data	6.7U	6.0U	3.3U
	06/26/1996	No Data	No Data	No Data	No Data	3.8J	No Data	7.7U	No Data	6.2J
	06/26/1996	No Data	No Data	No Data	No Data	3.7J	No Data	7.7U	No Data	92.3
SW92-02	11/17/1992	No Data	990	1.0U	No Data	4.8J	No Data	7.0U	No Data	6.0U
	03/02/1993	No Data	708	1.0U	No Data	1.8J	No Data	4.0U	No Data	4.9J
	03/02/1993	No Data	715	1.0U	No Data	1.5J	No Data	4.0U	No Data	8.3J
	04/20/1993	No Data	318	2.0U	No Data	1.0U	No Data	4.0U	No Data	6.0J
	07/20/1993	No Data	421	1.0U	No Data	1.0U	No Data	8.0U	No Data	3.0U
	10/27/1993	No Data	No Data	1.0U	No Data	2.0J	No Data	5.0U	No Data	34.1
	05/02/1994	No Data	No Data	1.0U	No Data	2.4J	No Data	5.0U	No Data	20.5
	10/05/1994	No Data	No Data	1.0U	1.0U	1.0U	1.1J	6.0U	6.0U	7.5J
	04/17/1995	1.0U	No Data	1.0U	1.0U	2.9J	No Data	4.0U	6.2J	11.4J
	10/02/1995	1.0U	No Data	No Data	No Data	No Data	No Data	6.7U	6.0U	3.8J
SW92-03	03/09/1993	No Data	743	1.0U	No Data	2.6J	No Data	4.0U	No Data	21.8
	05/05/1993	No Data	801	2.0U	No Data	1.0J	No Data	5.4J	No Data	10.3J
	07/20/1993	No Data	891	1.0U	No Data	1.0U	No Data	8.0U	No Data	3.0U
	10/28/1993	No Data	No Data	1.0U	No Data	4.3J	No Data	5.0U	No Data	17.0J
	10/28/1993	No Data	No Data	1.0U	No Data	4.5J	No Data	5.0U	No Data	18.8J
	05/02/1994	No Data	No Data	1.0U	No Data	3.0J	No Data	5.0U	No Data	11.6J
	10/05/1994	No Data	No Data	1.0U	1.0U	2.4J	2.3J	6.0U	6.0U	11.8J
	04/17/1995	1.0U	No Data	1.0U	1.0U	2.1J	No Data	4.0U	4.0U	5.2J
	10/03/1995	1.0U	No Data	No Data	No Data	No Data	No Data	6.7U	6.0U	3.3U
	10/03/1995	1.0U	No Data	No Data	No Data	No Data	No Data	6.7U	6.0U	3.3U
Reference - Verdure										
10SW95-01	09/06/1995	1.0U	No Data	No Data	No Data	No Data	No Data	4.4U	4.0U	5.3J

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Sample was unfiltered.
[c]Sample was filtered in the field.

Surface-Water Metals Data[a]

Sample Location	Sample Date	Zn[c] (µg/L)
Reference - West of 191		
SW92-01	11/16/1992	No Data
	11/16/1992	No Data
	03/02/1993	No Data
	04/19/1993	No Data
	07/19/1993	No Data
	10/27/1993	No Data
	05/03/1994	No Data
	10/05/1994	2.0U
	04/17/1995	22.2
	10/02/1995	3.0U
	06/26/1996	No Data
	06/26/1996	No Data
SW92-02	11/17/1992	No Data
	03/02/1993	No Data
	03/02/1993	No Data
	04/20/1993	No Data
	07/20/1993	No Data
	10/27/1993	No Data
	05/02/1994	No Data
	10/05/1994	2.0U
	04/17/1995	23.2
	10/02/1995	3.0U
SW92-03	03/09/1993	No Data
	05/05/1993	No Data
	07/20/1993	No Data
	10/28/1993	No Data
	10/28/1993	No Data
	05/02/1994	No Data
	10/05/1994	2.0U
	04/17/1995	3.0U
	10/03/1995	3.0U
	10/03/1995	3.0U
Reference - Verdure		
10SW95-01	09/06/1995	13.1J

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.
[c]Sample was filtered in the field.

Surface-Water Metals Data[a]

Sample Location	Sample Date	Ag[b] (µg/L)	Ag[c] (µg/L)	Al[b] (µg/L)	Al[c] (µg/L)	As[b] (µg/L)	As[c] (µg/L)	B[b] (µg/L)	B[c] (µg/L)	Ba[b] (µg/L)
Reference - Verdure										
11SW95-01	09/06/1995	No Data	No Data	136J	20.0U	1.1U	1.4J	31.9J	28.1J	No Data
12SW95-01	09/06/1995	No Data	No Data	152J	20.0U	1.1U	1.3J	28.3J	32.5J	No Data
14SW96-01	06/10/1996	No Data	No Data	31.2U	381	0.86J	1.8	No Data	No Data	No Data
15SW96-01	06/10/1996	No Data	No Data	31.2U	133	1.6	2.1	No Data	No Data	No Data
16SW96-01	06/10/1996	No Data	No Data	31.2U	31.2U	1.6	1.1	No Data	No Data	No Data
17SW96-01	06/11/1996	No Data	No Data	31.2U	31.2U	1.8	2.0	No Data	No Data	No Data
Reference - Vega										
13SW95-01	09/07/1995	No Data	No Data	2240	20.0U	5.3J	6.0J	83.1J	79.9J	No Data
	09/07/1995	No Data	No Data	3510	20.0U	5.7J	6.1J	77.2J	73.6J	No Data
SW95-01	02/16/1996	No Data	No Data	41.3J	12.0U	1.2J	1.2J	No Data	No Data	No Data
On-Site										
Carbonate Seep	11/11/1992	6.0U	No Data	96.7J	No Data	245	No Data	280	No Data	29.9J
	04/27/1993	4.0U	No Data	86.2J	No Data	454J	No Data	249	No Data	45.4J
	07/21/1993	7.0U	No Data	98.4J	No Data	298	No Data	396	No Data	38.1J
	11/02/1993	1.0U	No Data	477	No Data	438J	No Data	277	No Data	67.7J
	05/04/1994	4.0U	No Data	55.1J	No Data	349	No Data	204	No Data	22.5J
	10/11/1994	1.0UJ	1.0U	1930	10.0U	180J	193	124J	114	123J
	10/11/1994	1.0UJ	1.0U	316	10.0U	182J	194	130J	116	103J
North Drainage	11/11/1992	6.0U	No Data	1290	No Data	3.0U	No Data	76.7J	No Data	117J
	03/08/1993	4.0U	No Data	1360	No Data	3.0U	No Data	99.2J	No Data	86.9J
	04/23/1993	4.0U	No Data	403	No Data	3.0UJ	No Data	107	No Data	52.3J
	04/23/1993	4.0U	No Data	463	No Data	3.0UJ	No Data	106	No Data	62.0J
	05/04/1994	4.0U	No Data	831	No Data	2.6J	No Data	89.0J	No Data	77.5J
SW92-04	11/16/1992	6.0U	No Data	1260	No Data	33.9J	No Data	72.9J	No Data	68.4J
	03/08/1993	4.0U	No Data	176J	No Data	7.2J	No Data	77.4J	No Data	49.1J
	05/06/1993	4.0U	No Data	267	No Data	3.0U	No Data	45.6J	No Data	58.1J
	07/21/1993	7.0U	No Data	188J	No Data	3.0U	No Data	49.9J	No Data	36.5J
	11/02/1993	1.0U	No Data	54.4J	No Data	7.1J	No Data	65.1J	No Data	58.7J
	05/04/1994	4.0U	No Data	155J	No Data	2.0U	No Data	54.2J	No Data	42.1J
	10/11/1994	1.0UJ	1.0U	215	10.0U	11.3J	15.6	52.5J	2.0U	69.4J
	04/18/1995	1.0UJ	1.0U	88.1J	11.0U	1.0U	1.0U	19.8J	28.4J	61.4J
	10/05/1995	No Data	No Data	474	12.0U	1.1U	1.0J	6.0U	6.0U	No Data

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected: value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Sample was unfiltered.
[c]Sample was filtered in the field.

Surface-Water Metals Data[a]

Sample Location	Sample Date	Ba[c] (µg/L)	Be[b] (µg/L)	Cd[b] (µg/L)	Cd[c] (µg/L)	CN[d] (µg/L)	Co[b] (µg/L)	Co[c] (µg/L)	Cr[b] (µg/L)	Cr[c] (µg/L)
Reference - Verdure										
11SW95-01	09/06/1995	No Data	No Data	No Data	No Data	No Data	4.4U	4.0U	No Data	No Data
12SW95-01	09/06/1995	No Data	No Data	No Data	No Data	No Data	4.4U	4.0U	No Data	No Data
14SW96-01	06/10/1996	No Data	No Data	No Data	No Data	No Data	6.6U	6.6U	No Data	No Data
15SW96-01	06/10/1996	No Data	No Data	No Data	No Data	No Data	6.6U	6.6U	No Data	No Data
16SW96-01	06/10/1996	No Data	No Data	No Data	No Data	No Data	6.6U	6.6U	No Data	No Data
17SW96-01	06/11/1996	No Data	No Data	No Data	No Data	No Data	6.6U	6.6U	No Data	No Data
Reference - Vega										
13SW95-01	09/07/1995	No Data	No Data	No Data	No Data	No Data	4.4U	4.0U	No Data	No Data
	09/07/1995	No Data	No Data	No Data	No Data	No Data	4.4U	4.0U	No Data	No Data
SW95-01	02/16/1996	No Data	No Data	No Data	No Data	No Data	5.6U	5.0U	No Data	No Data
On-Site										
Carbonate Seep	11/11/1992	No Data	1.0U	1.0U	No Data	10.0U	10.0U	No Data	6.0U	No Data
	04/27/1993	No Data	1.0U	1.0U	No Data	4.0U	No Data	No Data	3.0U	No Data
	07/21/1993	No Data	1.0U	1.0U	No Data	4.0U	No Data	No Data	4.0U	No Data
	11/02/1993	No Data	No Data	1.0U	No Data	No Data	No Data	No Data	4.0U	No Data
	05/04/1994	No Data	No Data	1.0U	No Data	No Data	No Data	No Data	4.0U	No Data
	10/11/1994	105J	No Data	1.0U	1.0U	No Data	No Data	No Data	2.1J	2.0U
	10/11/1994	106J	No Data	1.0U	1.0U	No Data	No Data	No Data	2.0U	2.0U
North Drainage	11/11/1992	No Data	1.0U	1.0U	No Data	10.0U	10.0U	No Data	6.0U	No Data
	03/08/1993	No Data	1.0U	1.0U	No Data	10.0U	6.0U	No Data	3.0U	No Data
	04/23/1993	No Data	1.0U	1.0U	No Data	4.0U	No Data	No Data	3.0U	No Data
	04/23/1993	No Data	1.0U	1.0U	No Data	4.0U	No Data	No Data	3.0U	No Data
	05/04/1994	No Data	No Data	1.0U	No Data	No Data	No Data	No Data	4.0U	No Data
SW92-04	11/16/1992	No Data	1.0U	1.0U	No Data	10.0U	10.0U	No Data	6.0U	No Data
	03/08/1993	No Data	1.0U	1.0U	No Data	10.0U	6.0U	No Data	3.0U	No Data
	05/06/1993	No Data	1.0U	1.0U	No Data	4.0U	No Data	No Data	3.0U	No Data
	07/21/1993	No Data	1.0U	1.0U	No Data	4.0U	No Data	No Data	4.0U	No Data
	11/02/1993	No Data	No Data	1.0U	No Data	No Data	No Data	No Data	4.0U	No Data
	05/04/1994	No Data	No Data	1.0U	No Data	No Data	No Data	No Data	4.0U	No Data
	10/11/1994	69.8J	No Data	1.0U	1.0U	No Data	No Data	No Data	2.0U	2.0U
	04/18/1995	67.9J	No Data	1.0U	1.0U	No Data	8.0U	8.0U	4.0U	4.0U
	10/05/1995	No Data	No Data	No Data	No Data	No Data	6.7U	6.0U	No Data	No Data

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Sample was unfiltered.
[c]Sample was filtered in the field.
[d]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value.

Surface-Water Metals Data[a]

Sample Location	Sample Date	Cu[b] (µg/L)	Cu[c] (µg/L)	Fe[b] (µg/L)	Fe[c] (µg/L)	Hg[b] (µg/L)	Mn[b] (µg/L)	Mn[c] (µg/L)	Mo[b] (µg/L)	Mo[c] (µg/L)
Reference - Verdure										
11SW95-01	09/06/1995	5.6U	5.0U	No Data	No Data	No Data	20.5	17.0	28.9U	26.0U
12SW95-01	09/06/1995	5.6U	5.0U	No Data	No Data	No Data	14.5J	11.8J	28.9U	26.0U
14SW96-01	06/10/1996	3.7U	3.7U	No Data	No Data	No Data	182	499	4.4J	4.0J
15SW96-01	06/10/1996	3.7U	3.7U	No Data	No Data	No Data	117	317	4.4J	4.2J
16SW96-01	06/10/1996	3.7U	3.7U	No Data	No Data	No Data	102	109	4.3J	4.3J
17SW96-01	06/11/1996	3.7U	3.7U	No Data	No Data	No Data	406	394	4.9J	5.0J
Reference - Vega										
13SW95-01	09/07/1995	5.6U	5.0U	No Data	No Data	No Data	2380	2270	28.9U	26.0U
	09/07/1995	5.6U	5.0U	No Data	No Data	No Data	2430	2280	28.9U	26.0U
SW95-01	02/16/1996	4.4U	4.0U	No Data	No Data	No Data	221	221	1.1U	1.1U
On-Site										
Carbonate Seep	11/11/1992	4.0U	No Data	130	No Data	0.10U	105	No Data	118	No Data
	04/27/1993	5.5J	No Data	97.3J	No Data	0.10U	25.7	No Data	314	No Data
	07/21/1993	5.0J	No Data	140	No Data	0.10U	47.5	No Data	321	No Data
	11/02/1993	17.1J	No Data	541	No Data	No Data	88.9	No Data	185	No Data
	05/04/1994	2.0U	No Data	5.0U	No Data	No Data	25.4	No Data	133	No Data
	10/11/1994	66.2	6.6J	1190	6.0U	No Data	632	500	56.4	89.8
	10/11/1994	18.5J	9.8J	176	6.0U	No Data	475	460	40.8J	39.1J
North Drainage	11/11/1992	4.0U	No Data	1170	No Data	0.10U	24.3	No Data	6.5J	No Data
	03/08/1993	3.0U	No Data	1400J	No Data	0.10U	56.9	No Data	22.0U	No Data
	04/23/1993	3.0U	No Data	483	No Data	0.10U	33.3	No Data	1.2J	No Data
	04/23/1993	3.0U	No Data	583	No Data	0.10U	38.1	No Data	1.0U	No Data
	05/04/1994	2.0U	No Data	856	No Data	No Data	36.7	No Data	27.0U	No Data
SW92-04	11/16/1992	4.0U	No Data	1340	No Data	0.10U	785	No Data	47.1J	No Data
	03/08/1993	3.0U	No Data	226J	No Data	0.10U	341	No Data	22.0U	No Data
	05/06/1993	3.1J	No Data	373	No Data	0.10U	165	No Data	5.2J	No Data
	07/21/1993	5.0U	No Data	247	No Data	0.10U	50.6	No Data	2.8J	No Data
	11/02/1993	3.0U	No Data	81.0J	No Data	No Data	192	No Data	13.0J	No Data
	05/04/1994	2.0U	No Data	269	No Data	No Data	111	No Data	27.0U	No Data
	10/11/1994	4.0U	4.0U	251	6.0U	No Data	463	452	27.0J	24.7J
	04/18/1995	3.0U	4.4J	182	17.2J	No Data	147	148	2.1J	2.3J
	10/05/1995	4.4U	4.0U	No Data	No Data	No Data	137	134	15.6U	14.0U

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Sample was unfiltered.
[c]Sample was filtered in the field.

Surface-Water Metals Data[a]

Sample Location	Sample Date	Ni[b] (µg/L)	Ni[c] (µg/L)	Pb[b] (µg/L)	Pb[c] (µg/L)	Sb[b] (µg/L)	Sb[c] (µg/L)	Se[b] (µg/L)	Se[c] (µg/L)	Sn[b] (µg/L)
Reference - Verdure										
11SW95-01	09/06/1995	No Data	No Data	No Data	No Data	No Data	No Data	2.2U	2.0U	1.1U
12SW95-01	09/06/1995	No Data	No Data	No Data	No Data	No Data	No Data	2.2U	2.0U	1.1U
14SW96-01	06/10/1996	No Data	No Data	1.3	1.1	No Data	No Data	1.7U	2.6	No Data
15SW96-01	06/10/1996	No Data	No Data	0.66J	0.91	No Data	No Data	1.7U	1.7U	No Data
16SW96-01	06/10/1996	No Data	No Data	0.69J	0.61J	No Data	No Data	1.7U	1.7U	No Data
17SW96-01	06/11/1996	No Data	No Data	0.55J	0.48J	No Data	No Data	1.7U	1.7U	No Data
Reference - Vega										
13SW95-01	09/07/1995	No Data	No Data	No Data	No Data	No Data	No Data	2.2U	2.0U	1.1U
	09/07/1995	No Data	No Data	No Data	No Data	No Data	No Data	2.2U	2.0U	1.1U
SW95-01	02/16/1996	10.0U	9.0U	1.1U	1.0U	1.1U	1.0U	2.2UJ	2.0U	1.1U
On-Site										
Carbonate Seep	11/11/1992	11.0U	No Data	1.0U	No Data	1.0U	No Data	26.0	No Data	No Data
	04/27/1993	9.0U	No Data	1.0U	No Data	1.0U	No Data	41.4J	No Data	No Data
	07/21/1993	14.0U	No Data	1.3J	No Data	1.0U	No Data	16.5	No Data	No Data
	11/02/1993	11.0U	No Data	3.5	No Data	No Data	No Data	19.1J	No Data	No Data
	05/04/1994	6.0U	No Data	1.0U	No Data	No Data	No Data	29.2	No Data	No Data
	10/11/1994	8.0U	8.0U	5.9	1.0U	No Data	No Data	16.5	21.0	No Data
	10/11/1994	8.0U	8.0U	1.0U	1.0U	No Data	No Data	16.2	19.5	No Data
North Drainage	11/11/1992	11.0U	No Data	1.3J	No Data	1.0U	No Data	7.6J	No Data	No Data
	03/08/1993	9.1J	No Data	2.3J	No Data	1.0U	No Data	8.6J	No Data	No Data
	04/23/1993	9.0U	No Data	1.3J	No Data	1.2J	No Data	8.0	No Data	No Data
	04/23/1993	9.0U	No Data	4.4J	No Data	1.5J	No Data	6.2	No Data	No Data
	05/04/1994	6.0U	No Data	1.4J	No Data	No Data	No Data	1.0U	No Data	No Data
SW92-04	11/16/1992	11.0U	No Data	1.0U	No Data	1.0U	No Data	11.5J	No Data	No Data
	03/08/1993	9.0U	No Data	1.0UJ	No Data	1.0U	No Data	12.0J	No Data	No Data
	05/06/1993	9.0U	No Data	1.0U	No Data	1.0U	No Data	3.7J	No Data	No Data
	07/21/1993	14.0U	No Data	1.0U	No Data	1.0U	No Data	15.0UJ	No Data	No Data
	11/02/1993	11.0U	No Data	1.0U	No Data	No Data	No Data	2.0UJ	No Data	No Data
	05/04/1994	6.0U	No Data	1.0U	No Data	No Data	No Data	1.0U	No Data	No Data
	10/11/1994	8.0U	8.0U	1.0U	1.0U	No Data	No Data	8.5	10.9	No Data
	04/18/1995	9.0U	9.0U	1.0U	1.0U	No Data	No Data	1.1J	1.3J	1.0U
	10/05/1995	No Data	No Data	No Data	No Data	35.6U	32.0U	1.1U	1.0UJ	1.1U

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Sample was unfiltered.
[c]Sample was filtered in the field.

Surface-Water Metals Data[a]

Sample Location	Sample Date	Sn[c] (µg/L)	Sr[b] (µg/L)	Tl[b] (µg/L)	Tl[c] (µg/L)	U[b] (µg/L)	U[c] (µg/L)	V[b] (µg/L)	V[c] (µg/L)	Zn[b] (µg/L)
Reference - Verdure										
11SW95-01	09/06/1995	1.0U	No Data	No Data	No Data	No Data	No Data	4.4U	4.0U	21.1J
12SW95-01	09/06/1995	1.0U	No Data	No Data	No Data	No Data	No Data	4.4U	4.0U	14.8J
14SW96-01	06/10/1996	No Data	No Data	No Data	No Data	2.2U	2.3U	7.7U	7.7U	7.1J
15SW96-01	06/10/1996	No Data	No Data	No Data	No Data	2.1U	2.2U	7.7U	7.7U	2.0J
16SW96-01	06/10/1996	No Data	No Data	No Data	No Data	2.1U	2.1U	7.7U	7.7U	2.4J
17SW96-01	06/11/1996	No Data	No Data	No Data	No Data	2.1U	2.1U	7.7U	7.7U	2.8J
Reference - Vega										
13SW95-01	09/07/1995	1.0U	No Data	No Data	No Data	No Data	No Data	4.4U	4.0U	12.0J
	09/07/1995	1.0U	No Data	No Data	No Data	No Data	No Data	4.4U	4.0U	13.1J
SW95-01	02/16/1996	1.0U	No Data	No Data	No Data	No Data	No Data	5.6U	5.0U	16.0J
On-Site										
Carbonate Seep	11/11/1992	No Data	1780	1.0U	No Data	2490	No Data	4090	No Data	6.0U
	04/27/1993	No Data	1490	2.0U	No Data	2850J	No Data	7830	No Data	5.0J
	07/21/1993	No Data	1360	1.0U	No Data	1350	No Data	1560	No Data	3.0U
	11/02/1993	No Data	No Data	1.0U	No Data	3230	No Data	8420	No Data	11.9J
	05/04/1994	No Data	No Data	1.0U	No Data	2210	No Data	6010	No Data	2.0U
	10/11/1994	No Data	No Data	1.0U	1.0U	2720	2610	6230	6170	39.2
	10/11/1994	No Data	No Data	1.0U	1.0U	2600	2570	5950	6120	4.7J
North Drainage	11/11/1992	No Data	2010	1.0U	No Data	100	No Data	28.7J	No Data	6.0U
	03/08/1993	No Data	2160	1.0U	No Data	133	No Data	26.9J	No Data	18.9J
	04/23/1993	No Data	2260	2.0U	No Data	52.4	No Data	4.0U	No Data	7.8J
	04/23/1993	No Data	2450	2.0U	No Data	55.4	No Data	4.0U	No Data	11.9J
	05/04/1994	No Data	No Data	1.0U	No Data	56.6	No Data	42.0J	No Data	2.0U
SW92-04	11/16/1992	No Data	2990	1.0U	No Data	167	No Data	777	No Data	9.9J
	03/08/1993	No Data	2090	1.0U	No Data	209	No Data	229	No Data	9.4J
	05/06/1993	No Data	1140	2.0U	No Data	40.3	No Data	85.5	No Data	22.3
	07/21/1993	No Data	1030	1.0U	No Data	8.3	No Data	22.8J	No Data	3.0U
	11/02/1993	No Data	No Data	1.0U	No Data	62.0	No Data	180	No Data	9.0J
	05/04/1994	No Data	No Data	1.0U	No Data	44.1	No Data	92.9	No Data	2.0U
	10/11/1994	No Data	No Data	1.0J	1.0U	94.9	90.1	450	442	3.1J
	04/18/1995	1.0U	No Data	1.0U	1.0U	27.3	No Data	4.0U	4.0U	5.9J
	10/05/1995	1.0U	No Data	No Data	No Data	No Data	No Data	6.7U	6.0U	3.4J

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected: value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Sample was unfiltered.
[c]Sample was filtered in the field.

Surface-Water Metals Data[a]

Sample Location	Sample Date	Zn[c] (µg/L)
Reference - Verdure		
11SW95-01	09/06/1995	18.8J
12SW95-01	09/06/1995	14.6J
14SW96-01	06/10/1996	32.1
15SW96-01	06/10/1996	11.2
16SW96-01	06/10/1996	10.1J
17SW96-01	06/11/1996	6.2J
Reference - Vega		
13SW95-01	09/07/1995	16.5J
	09/07/1995	16.7J
SW95-01	02/16/1996	2.0U
On-Site		
Carbonate Seep	11/11/1992	No Data
	04/27/1993	No Data
	07/21/1993	No Data
	11/02/1993	No Data
	05/04/1994	No Data
	10/11/1994	2.0U
	10/11/1994	2.0U
North Drainage	11/11/1992	No Data
	03/08/1993	No Data
	04/23/1993	No Data
	04/23/1993	No Data
	05/04/1994	No Data
SW92-04	11/16/1992	No Data
	03/08/1993	No Data
	05/06/1993	No Data
	07/21/1993	No Data
	11/02/1993	No Data
	05/04/1994	No Data
	10/11/1994	2.0U
	04/18/1995	19.8J
	10/05/1995	3.0U

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.
[c]Sample was filtered in the field.

Surface-Water Metals Data[a]

Sample Location	Sample Date	Ag[b] (µg/L)	Ag[c] (µg/L)	Al[b] (µg/L)	Al[c] (µg/L)	As[b] (µg/L)	As[c] (µg/L)	B[b] (µg/L)	B[c] (µg/L)	Ba[b] (µg/L)
On-Site										
SW92-05	11/16/1992	6.0U	No Data	621	No Data	18.8J	No Data	75.8J	No Data	56.1J
	03/04/1993	4.0U	No Data	507	No Data	10.3J	No Data	92.6J	No Data	53.4J
	05/06/1993	4.0U	No Data	287	No Data	3.0U	No Data	40.6J	No Data	54.1J
	07/20/1993	7.0U	No Data	129J	No Data	3.7J	No Data	38.8J	No Data	36.8J
	11/02/1993	1.0U	No Data	55.7J	No Data	4.4J	No Data	66.7J	No Data	58.7J
	05/05/1994	4.0U	No Data	124J	No Data	2.5J	No Data	52.8J	No Data	40.3J
	05/05/1994	4.0U	No Data	62.9J	No Data	4.9J	No Data	50.4J	No Data	40.4J
	10/11/1994	1.0UJ	1.0U	409	10.0U	11.4J	13.8	55.7J	2.0U	74.8J
	04/18/1995	20.9J	1.0U	71.8J	11.0U	1.0U	1.0U	20.3J	30.9J	59.8J
	10/05/1995	No Data	No Data	635	12.0U	1.1U	1.0U	6.0U	6.0U	No Data
	10/05/1995	No Data	No Data	365	12.0U	1.1U	1.0U	6.0U	6.0U	No Data
	04/10/1996	No Data	No Data	287	9.0U	0.44U	0.44U	No Data	No Data	No Data
Slade Spring	04/18/1995	75.6J	1.0U	31.9J	11.0U	1.0U	1.0U	33.7J	39.4J	28.6J
	10/05/1995	No Data	No Data	630	12.0U	1.1U	1.0U	6.0U	6.0U	No Data
W-2	11/11/1992	6.0U	No Data	628	No Data	14.6J	No Data	58.6J	No Data	59.7J
	11/11/1992	6.0U	No Data	588	No Data	18.8J	No Data	57.0J	No Data	56.2J
	03/08/1993	4.0U	No Data	554	No Data	9.7J	No Data	111	No Data	77.0J
	04/27/1993	4.0U	No Data	107J	No Data	21.9J	No Data	107	No Data	50.6J
	04/27/1993	4.0U	No Data	169J	No Data	25.2J	No Data	107	No Data	53.3J
	05/04/1994	4.0U	No Data	492	No Data	1250	No Data	403	No Data	29.0J
	10/11/1994	1.0UJ	1.0U	987	10.0U	876J	921	244J	236	79.9J
W-5	03/08/1993	4.0U	No Data	608	No Data	3.0U	No Data	140	No Data	61.5J
	03/08/1993	4.0U	No Data	574	No Data	3.0U	No Data	116	No Data	68.6J
	04/26/1993	4.0U	No Data	652	No Data	3.0UJ	No Data	129	No Data	82.2J
Downgradient - Upper Montezuma Creek										
01SW95-01	09/07/1995	No Data	No Data	163J	20.0U	1.3J	1.7J	52.7J	49.9J	No Data
	09/07/1995	No Data	No Data	185J	20.0U	1.6J	1.9J	55.9J	54.3J	No Data
02SW95-01	09/05/1995	No Data	No Data	96.4J	20.0U	1.6J	1.5J	64.2J	59.2J	No Data
03SW95-01	09/05/1995	No Data	No Data	22.2U	20.0U	1.5J	1.5J	67.5J	65.9J	No Data
04SW95-01	09/05/1995	No Data	No Data	90.1J	20.0U	3.2J	3.9J	251	237	No Data
05SW95-01	09/05/1995	No Data	No Data	223	20.0U	3.7J	5.7J	238	235	No Data
21SW96-01	06/11/1996	No Data	No Data	31.2U	712	2.0	2.2	No Data	No Data	No Data
	06/11/1996	No Data	No Data	31.2U	942	1.6	1.9	No Data	No Data	No Data
22SW96-01	06/11/1996	No Data	No Data	31.2U	320	2.5	2.9	No Data	No Data	No Data

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Sample was unfiltered.
[c]Sample was filtered in the field.

Surface-Water Metals Data[a]

Sample Location	Sample Date	Ba[c] (µg/L)	Be[b] (µg/L)	Cd[b] (µg/L)	Cd[c] (µg/L)	CN[d] (µg/L)	Co[b] (µg/L)	Co[c] (µg/L)	Cr[b] (µg/L)	Cr[c] (µg/L)
On-Site										
SW92-05	11/16/1992	No Data	1.0U	1.0U	No Data	10.0U	10.0U	No Data	6.0U	No Data
	03/04/1993	No Data	1.0U	1.0U	No Data	10.0U	6.0U	No Data	3.0U	No Data
	05/06/1993	No Data	1.0U	1.0U	No Data	4.0U	No Data	No Data	3.0U	No Data
	07/20/1993	No Data	1.0U	1.0U	No Data	4.0U	No Data	No Data	4.0U	No Data
	11/02/1993	No Data	No Data	1.0U	No Data	No Data	No Data	No Data	4.0U	No Data
	05/05/1994	No Data	No Data	1.0U	No Data	No Data	No Data	No Data	4.0U	No Data
	05/05/1994	No Data	No Data	1.0U	No Data	No Data	No Data	No Data	4.0U	No Data
	10/11/1994	68.4J	No Data	1.0U	1.0U	No Data	No Data	No Data	2.0U	2.0U
	04/18/1995	65.9J	No Data	1.0U	1.0U	No Data	8.0U	8.0U	4.0U	4.0U
	10/05/1995	No Data	No Data	No Data	No Data	No Data	6.7U	6.0U	No Data	No Data
	10/05/1995	No Data	No Data	No Data	No Data	No Data	6.7U	6.0U	No Data	No Data
	04/10/1996	No Data	No Data	No Data	No Data	No Data	7.8U	7.0U	No Data	No Data
Slade Spring	04/18/1995	31.5J	No Data	1.0U	1.0U	No Data	8.0U	8.0U	4.0U	4.0U
	10/05/1995	No Data	No Data	No Data	No Data	No Data	6.7U	6.0U	No Data	No Data
W-2	11/11/1992	No Data	1.0U	1.0U	No Data	10.0U	10.0U	No Data	6.0U	No Data
	11/11/1992	No Data	1.0U	1.0U	No Data	10.0U	10.0U	No Data	6.0U	No Data
	03/08/1993	No Data	1.0U	1.0U	No Data	10.0U	6.0U	No Data	3.0U	No Data
	04/27/1993	No Data	1.0U	1.0U	No Data	4.0U	No Data	No Data	3.0U	No Data
	04/27/1993	No Data	1.0U	1.0U	No Data	4.0U	No Data	No Data	3.0U	No Data
	05/04/1994	No Data	No Data	1.0U	No Data	No Data	No Data	No Data	4.0U	No Data
	10/11/1994	87.4J	No Data	1.0U	1.0U	No Data	No Data	No Data	2.0U	2.4J
W-5	03/08/1993	No Data	1.0U	1.0U	No Data	10.0U	6.0U	No Data	3.0U	No Data
	03/08/1993	No Data	1.0U	1.0U	No Data	10.0U	6.0U	No Data	3.0U	No Data
	04/26/1993	No Data	1.0U	1.0U	No Data	4.0U	No Data	No Data	3.0U	No Data
Downgradient - Upper Montezuma Creek										
01SW95-01	09/07/1995	No Data	No Data	No Data	No Data	No Data	4.4U	4.0U	No Data	No Data
	09/07/1995	No Data	No Data	No Data	No Data	No Data	4.4U	4.0U	No Data	No Data
02SW95-01	09/05/1995	No Data	No Data	No Data	No Data	No Data	4.4U	4.0U	No Data	No Data
03SW95-01	09/05/1995	No Data	No Data	No Data	No Data	No Data	4.4U	4.0U	No Data	No Data
04SW95-01	09/05/1995	No Data	No Data	No Data	No Data	No Data	4.4U	4.0U	No Data	No Data
05SW95-01	09/05/1995	No Data	No Data	No Data	No Data	No Data	4.4U	4.0U	No Data	No Data
21SW96-01	06/11/1996	No Data	No Data	No Data	No Data	No Data	6.6U	6.6U	No Data	No Data
	06/11/1996	No Data	No Data	No Data	No Data	No Data	6.6U	6.6U	No Data	No Data
22SW96-01	06/11/1996	No Data	No Data	No Data	No Data	No Data	6.6U	6.6U	No Data	No Data

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Sample was unfiltered.
[c]Sample was filtered in the field.
[d]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value.

Surface-Water Metals Data[a]

Sample Location	Sample Date	Cu[b] (µg/L)	Cu[c] (µg/L)	Fe[b] (µg/L)	Fe[c] (µg/L)	Hg[b] (µg/L)	Mn[b] (µg/L)	Mn[c] (µg/L)	Mo[b] (µg/L)	Mo[c] (µg/L)
On-Site										
SW92-05	11/16/1992	4.0U	No Data	654	No Data	0.20J	646	No Data	25.3J	No Data
	03/04/1993	3.0U	No Data	564J	No Data	0.10U	382	No Data	22.0U	No Data
	05/06/1993	17.0J	No Data	355	No Data	0.10U	132	No Data	4.6J	No Data
	07/20/1993	5.0U	No Data	192	No Data	0.10U	57.8	No Data	4.1J	No Data
	11/02/1993	3.0U	No Data	95.2J	No Data	No Data	187	No Data	11.1J	No Data
	05/05/1994	2.0U	No Data	5.0U	No Data	No Data	123	No Data	27.0U	No Data
	05/05/1994	2.0U	No Data	5.0U	No Data	No Data	124	No Data	27.0U	No Data
	10/11/1994	4.0U	4.0U	450	6.0U	No Data	484	459	27.8J	25.8J
	04/18/1995	3.0U	3.0U	130	5.0U	No Data	144	143	3.0J	3.2J
	10/05/1995	4.4U	4.0U	No Data	No Data	No Data	128	121	15.6U	16.3J
	10/05/1995	4.4U	4.0U	No Data	No Data	No Data	122	120	15.6U	14.0U
	04/10/1996	3.3U	3.0U	No Data	No Data	No Data	154	144	0.56U	2.3J
Slade Spring	04/18/1995	3.0U	3.0U	72.2J	23.9J	No Data	23.7	23.8	2.6J	2.7J
	10/05/1995	4.4U	4.0U	No Data	No Data	No Data	26.2	18.7	15.6U	14.0U
W-2	11/11/1992	4.0U	No Data	720	No Data	0.10U	742	No Data	19.9J	No Data
	11/11/1992	4.0U	No Data	690	No Data	0.10U	723	No Data	18.9J	No Data
	03/08/1993	3.0U	No Data	608J	No Data	0.10U	41.0	No Data	22.0U	No Data
	04/27/1993	3.0U	No Data	109	No Data	0.10U	25.7	No Data	21.4J	No Data
	04/27/1993	3.0U	No Data	176	No Data	0.91	25.6	No Data	23.6J	No Data
	05/04/1994	65.1	No Data	448	No Data	No Data	43.0	No Data	2450	No Data
	10/11/1994	49.0	21.7J	475	6.0U	No Data	199	144	1460J	1490J
W-5	03/08/1993	3.0U	No Data	656J	No Data	0.10U	32.2	No Data	22.0U	No Data
	03/08/1993	3.0U	No Data	633J	No Data	0.10U	33.7	No Data	22.0U	No Data
	04/26/1993	10.1J	No Data	849	No Data	0.10U	45.0	No Data	2.3J	No Data
Downgradient - Upper Montezuma Creek										
01SW95-01	09/07/1995	5.6U	5.0U	No Data	No Data	No Data	103	98.7	28.9U	26.0U
	09/07/1995	5.6U	5.0U	No Data	No Data	No Data	102	98.6	28.9U	26.0U
02SW95-01	09/05/1995	5.6U	5.0U	No Data	No Data	No Data	106	98.4	28.9U	26.0U
03SW95-01	09/05/1995	5.6U	5.0U	No Data	No Data	No Data	27.6	25.2	28.9U	26.0U
04SW95-01	09/05/1995	5.6U	5.0U	No Data	No Data	No Data	303	254	28.9U	26.0U
05SW95-01	09/05/1995	5.6U	5.0U	No Data	No Data	No Data	186	208	28.9U	26.0U
21SW96-01	06/11/1996	3.7U	3.7U	No Data	No Data	No Data	69.4	78.3	18.1	18.0
	06/11/1996	3.7U	3.7U	No Data	No Data	No Data	68.6	76.5	17.8	17.9
22SW96-01	06/11/1996	3.7U	3.7U	No Data	No Data	No Data	147	139	19.2	18.6

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected: value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Sample was unfiltered.
[c]Sample was filtered in the field.

Surface-Water Metals Data[a]

Sample Location	Sample Date	Ni[b] (µg/L)	Ni[c] (µg/L)	Pb[b] (µg/L)	Pb[c] (µg/L)	Sb[b] (µg/L)	Sb[c] (µg/L)	Se[b] (µg/L)	Se[c] (µg/L)	Sn[b] (µg/L)
On-Site										
SW92-05	11/16/1992	11.0U	No Data	5.1	No Data	1.0U	No Data	6.1J	No Data	No Data
	03/04/1993	11.4J	No Data	1.0UJ	No Data	1.0U	No Data	4.6J	No Data	No Data
	05/06/1993	9.0U	No Data	1.0U	No Data	1.0U	No Data	3.5J	No Data	No Data
	07/20/1993	14.0U	No Data	1.0U	No Data	1.0U	No Data	3.5J	No Data	No Data
	11/02/1993	11.0U	No Data	1.0U	No Data	No Data	No Data	2.0UJ	No Data	No Data
	05/05/1994	6.0U	No Data	1.0U	No Data	No Data	No Data	1.0U	No Data	No Data
	05/05/1994	6.0U	No Data	1.0U	No Data	No Data	No Data	1.0U	No Data	No Data
	10/11/1994	8.0U	8.0U	1.0U	1.0U	No Data	No Data	9.0	10.3	No Data
	04/18/1995	9.0U	9.0U	1.0U	1.0U	No Data	No Data	1.4J	1.3J	1.0U
	10/05/1995	No Data	No Data	No Data	No Data	35.6U	32.0U	1.1U	1.0UJ	1.1U
	10/05/1995	No Data	No Data	No Data	No Data	35.6U	32.0U	1.1U	1.0UJ	1.1U
	04/10/1996	No Data	No Data	0.44U	0.40U	No Data	No Data	2.0J	2.4J	No Data
Slade Spring	04/18/1995	9.0U	9.0U	1.2J	1.0U	No Data	No Data	1.4J	1.0U	1.0U
	10/05/1995	No Data	No Data	No Data	No Data	35.6U	32.0U	1.1U	2.3J	1.1U
W-2	11/11/1992	11.0U	No Data	1.0U	No Data	1.0U	No Data	5.2J	No Data	No Data
	11/11/1992	11.0U	No Data	3.3	No Data	1.0U	No Data	3.4J	No Data	No Data
	03/08/1993	9.0U	No Data	1.0UJ	No Data	1.0U	No Data	21.2J	No Data	No Data
	04/27/1993	9.0U	No Data	1.0U	No Data	1.0U	No Data	15.3J	No Data	No Data
	04/27/1993	9.0U	No Data	1.1J	No Data	1.0U	No Data	10.8J	No Data	No Data
	05/04/1994	6.0U	No Data	1.0U	No Data	No Data	No Data	540	No Data	No Data
	10/11/1994	8.0U	8.0U	3.6	1.0U	No Data	No Data	496	504	No Data
W-5	03/08/1993	13.3J	No Data	1.0UJ	No Data	1.0U	No Data	3.2J	No Data	No Data
	03/08/1993	9.0U	No Data	1.0UJ	No Data	1.0U	No Data	2.2UJ	No Data	No Data
	04/26/1993	9.0U	No Data	2.6J	No Data	1.0U	No Data	2.0UJ	No Data	No Data
Downgradient - Upper Montezuma Creek										
01SW95-01	09/07/1995	No Data	No Data	No Data	No Data	No Data	No Data	2.2U	2.7J	1.1U
	09/07/1995	No Data	No Data	No Data	No Data	No Data	No Data	2.2U	2.4J	1.1U
02SW95-01	09/05/1995	No Data	No Data	No Data	No Data	No Data	No Data	2.3J	2.3J	1.1U
03SW95-01	09/05/1995	No Data	No Data	No Data	No Data	No Data	No Data	2.5J	3.0J	1.1U
04SW95-01	09/05/1995	No Data	No Data	No Data	No Data	No Data	No Data	2.2U	2.0U	1.1U
05SW95-01	09/05/1995	No Data	No Data	No Data	No Data	No Data	No Data	2.2U	2.0U	1.1U
21SW96-01	06/11/1996	No Data	No Data	1.7	1.2	No Data	No Data	1.7U	2.1J	No Data
	06/11/1996	No Data	No Data	1.2	0.87J	No Data	No Data	2.4	2.1J	No Data
22SW96-01	06/11/1996	No Data	No Data	0.67J	1.1	No Data	No Data	1.8J	2.6	No Data

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected: value is sample detection limit. UJ -- Not detected. associated value is estimated.
[b]Sample was unfiltered.
[c]Sample was filtered in the field.

Surface-Water Metals Data[a]

Sample Location	Sample Date	Sn[c] (µg/L)	Sr[b] (µg/L)	Tl[b] (µg/L)	Tl[c] (µg/L)	U[b] (µg/L)	U[c] (µg/L)	V[b] (µg/L)	V[c] (µg/L)	Zn[b] (µg/L)
On-Site										
SW92-05	11/16/1992	No Data	2920	1.0U	No Data	163	No Data	446	No Data	14.5J
	03/04/1993	No Data	2330	1.0U	No Data	202	No Data	264	No Data	12.6J
	05/06/1993	No Data	1060	2.0U	No Data	26.5	No Data	48.8J	No Data	19.0J
	07/20/1993	No Data	1100	1.0U	No Data	12.0	No Data	37.2J	No Data	3.0U
	11/02/1993	No Data	No Data	1.0U	No Data	59.1	No Data	133	No Data	7.0U
	05/05/1994	No Data	No Data	1.0U	No Data	48.0	No Data	112	No Data	2.0U
	05/05/1994	No Data	No Data	1.0U	No Data	49.1	No Data	109	No Data	2.0U
	10/11/1994	No Data	No Data	1.0U	1.0U	97.0	93.1	400	382	2.0U
	04/18/1995	1.0U	No Data	1.0U	1.0U	30.2	No Data	4.0U	8.5J	15.0J
	10/05/1995	1.0U	No Data	No Data	No Data	No Data	No Data	8.5J	6.0U	66.1
	10/05/1995	1.0U	No Data	No Data	No Data	No Data	No Data	6.7U	6.0U	5.8J
	04/10/1996	No Data	No Data	No Data	No Data	30.7	29.7	6.7U	6.0U	3.0J
Slade Spring	04/18/1995	1.0U	No Data	1.0U	1.0U	30.1	No Data	4.0U	7.2J	12.1J
	10/05/1995	1.0U	No Data	No Data	No Data	No Data	No Data	7.4J	6.0U	22.6
W-2	11/11/1992	No Data	2860	1.0U	No Data	159	No Data	318	No Data	6.0U
	11/11/1992	No Data	2780	1.0U	No Data	164	No Data	314	No Data	6.0U
	03/08/1993	No Data	2230	1.0U	No Data	146	No Data	200	No Data	15.4J
	04/27/1993	No Data	2200	2.0U	No Data	67.3J	No Data	553	No Data	7.6J
	04/27/1993	No Data	2200	2.0U	No Data	69.7J	No Data	553	No Data	9.6J
	05/04/1994	No Data	No Data	1.0U	No Data	1930	No Data	52000	No Data	2.0U
	10/11/1994	No Data	No Data	1.0U	1.0U	2610	2660	33200	33100	8.1J
W-5	03/08/1993	No Data	1440	1.0U	No Data	103	No Data	5.9J	No Data	10.8J
	03/08/1993	No Data	1490	1.0U	No Data	117	No Data	5.9J	No Data	13.5J
	04/26/1993	No Data	1970	2.0U	No Data	36.0J	No Data	4.0U	No Data	19.6J
Downgradient - Upper Montezuma Creek										
01SW95-01	09/07/1995	1.0U	No Data	No Data	No Data	No Data	No Data	15.5J	13.1J	14.5J
	09/07/1995	1.0U	No Data	No Data	No Data	No Data	No Data	16.1J	16.4J	18.6J
02SW95-01	09/05/1995	1.0U	No Data	No Data	No Data	No Data	No Data	12.2J	9.8J	15.2J
03SW95-01	09/05/1995	1.0U	No Data	No Data	No Data	No Data	No Data	9.0J	4.0U	3.3U
04SW95-01	09/05/1995	1.0U	No Data	No Data	No Data	No Data	No Data	4.4U	4.0U	11.5J
05SW95-01	09/05/1995	1.0U	No Data	No Data	No Data	No Data	No Data	4.4U	13.3J	3.3U
21SW96-01	06/11/1996	No Data	No Data	No Data	No Data	158	160	7.7U	13.0	16.0
	06/11/1996	No Data	No Data	No Data	No Data	156	155	7.7U	9.9	3.3J
22SW96-01	06/11/1996	No Data	No Data	No Data	No Data	159	164	8.9	11.4	2.9J

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Sample was unfiltered.
[c]Sample was filtered in the field.

Surface-Water Metals Data[a]

Sample Location	Sample Date	Zn[c] (µg/L)
On-Site		
SW92-05	11/16/1992	No Data
	03/04/1993	No Data
	05/06/1993	No Data
	07/20/1993	No Data
	11/02/1993	No Data
	05/05/1994	No Data
	05/05/1994	No Data
	10/11/1994	2.0U
	04/18/1995	10.2J
	10/05/1995	3.0U
	10/05/1995	3.0U
	04/10/1996	2.1J
Slade Spring	04/18/1995	17.8J
	10/05/1995	3.0U
W-2	11/11/1992	No Data
	11/11/1992	No Data
	03/08/1993	No Data
	04/27/1993	No Data
	04/27/1993	No Data
	05/04/1994	No Data
	10/11/1994	2.0U
W-5	03/08/1993	No Data
	03/08/1993	No Data
	04/26/1993	No Data
Downgradient - Upper Montezuma Creek		
01SW95-01	09/07/1995	13.4J
	09/07/1995	14.0J
02SW95-01	09/05/1995	3.0U
03SW95-01	09/05/1995	3.0U
04SW95-01	09/05/1995	3.0U
05SW95-01	09/05/1995	9.2J
21SW96-01	06/11/1996	10.3J
	06/11/1996	3.3J
22SW96-01	06/11/1996	5.8J

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.
[c]Sample was filtered in the field.

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Surface-Water Metals Data[a]

Sample Location	Sample Date	Ag[b] (µg/L)	Ag[c] (µg/L)	Al[b] (µg/L)	Al[c] (µg/L)	As[b] (µg/L)	As[c] (µg/L)	B[b] (µg/L)	B[c] (µg/L)	Ba[b] (µg/L)
Downgradient - Upper Montezuma Creek										
23SW96-01	06/11/1996	No Data	No Data	31.2U	526	2.5	2.7	No Data	No Data	No Data
SW92-06	11/10/1992	6.0U	No Data	26.1J	No Data	3.0UJ	No Data	115	No Data	39.6J
	03/01/1993	4.0U	No Data	211	No Data	4.1J	No Data	118	No Data	46.3J
	05/05/1993	4.0U	No Data	247	No Data	3.4J	No Data	44.8J	No Data	60.3J
	07/22/1993	7.0U	No Data	281	No Data	3.0U	No Data	3.0U	No Data	44.3J
	07/22/1993	7.0U	No Data	296	No Data	3.0J	No Data	3.0U	No Data	43.6J
	10/29/1993	1.0U	No Data	136J	No Data	4.1J	No Data	72.8J	No Data	48.3J
	05/04/1994	4.0U	No Data	281	No Data	2.0U	No Data	57.8J	No Data	36.9J
	05/04/1994	4.0U	No Data	217	No Data	2.0U	No Data	55.6J	No Data	35.8J
	10/06/1994	1.0UJ	1.0U	175J	10.0U	6.6J	8.5J	75.4J	74.5J	109J
	04/19/1995	1.0UJ	1.0U	440	11.0U	1.0U	1.0U	34.7J	36.3J	63.8J
	10/03/1995	No Data	No Data	688	12.0U	1.3J	1.7J	6.0U	6.0U	No Data
SW92-07	11/17/1992	6.0U	No Data	73.2J	No Data	3.9J	No Data	99.0J	No Data	39.3J
	03/10/1993	4.0U	No Data	88.0J	No Data	3.0U	No Data	82.2J	No Data	46.3J
	05/05/1993	4.0U	No Data	261	No Data	3.0U	No Data	46.1J	No Data	60.2J
	07/21/1993	7.0U	No Data	269	No Data	3.1J	No Data	47.3J	No Data	46.0J
	10/29/1993	1.0U	No Data	72.3J	No Data	4.0U	No Data	94.8J	No Data	56.6J
	05/03/1994	4.0U	No Data	185J	No Data	2.0U	No Data	65.4J	No Data	36.1J
	10/05/1994	1.0UJ	1.0U	292	10.0U	2.0UJ	2.8J	83.3J	67.1J	96.4J
	04/19/1995	1.0J	1.0U	277	11.0U	1.0U	1.5J	44.1J	47.3J	60.1J
	10/03/1995	No Data	No Data	1270	12.0U	3.7J	4.5J	257	237	No Data
	04/09/1996	No Data	No Data	289	9.0U	0.44U	0.44U	No Data	No Data	No Data
	06/26/1996	No Data	No Data	132J	No Data	2.0J	No Data	No Data	No Data	No Data
Sorenson	11/10/1992	6.0U	No Data	88.8J	No Data	3.0UJ	No Data	112	No Data	38.5J
	03/09/1993	4.0U	No Data	222	No Data	5.0J	No Data	108	No Data	49.3J
	05/05/1993	4.0U	No Data	209	No Data	3.0U	No Data	48.2J	No Data	57.4J
	07/20/1993	7.0U	No Data	110J	No Data	3.1J	No Data	49.4J	No Data	47.7J
	10/28/1993	1.0U	No Data	51.2J	No Data	4.0U	No Data	96.0J	No Data	49.1J
	05/03/1994	4.0U	No Data	293	No Data	2.0U	No Data	68.8J	No Data	36.4J
	10/06/1994	1.0UJ	1.0U	44.9J	10.0U	2.0UJ	3.2J	83.5J	76.1J	97.0J
	04/19/1995	1.0UJ	1.0U	89.7J	11.0U	1.0U	1.0U	42.3J	44.3J	53.7J
	04/19/1995	1.0UJ	1.0U	111J	11.0U	1.0U	1.0U	39.4J	39.8J	54.2J
	10/03/1995	No Data	No Data	142J	12.0U	1.4J	1.7J	6.0U	6.0U	No Data
	04/09/1996	No Data	No Data	418	9.0U	0.44U	0.44U	No Data	No Data	No Data
	04/09/1996	No Data	No Data	497	9.0U	0.44U	0.44U	No Data	No Data	No Data
	06/26/1996	No Data	No Data	105J	No Data	4.6J	No Data	No Data	No Data	No Data

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Sample was unfiltered.
[c]Sample was filtered in the field.

Surface-Water Metals Data[a]

Sample Location	Sample Date	Ba[c] (µg/L)	Be[b] (µg/L)	Cd[b] (µg/L)	Cd[c] (µg/L)	CN[d] (µg/L)	Co[b] (µg/L)	Co[c] (µg/L)	Cr[b] (µg/L)	Cr[c] (µg/L)
Downgradient - Upper Montezuma Creek										
23SW96-01	06/11/1996	No Data	No Data	No Data	No Data	No Data	6.6U	6.6U	No Data	No Data
SW92-06	11/10/1992	No Data	1.0U	1.0U	No Data	10.0U	10.0U	No Data	6.0U	No Data
	03/01/1993	No Data	1.0U	1.0U	No Data	10.0U	6.0U	No Data	4.6J	No Data
	05/05/1993	No Data	1.0U	1.0U	No Data	4.0U	No Data	No Data	3.0U	No Data
	07/22/1993	No Data	1.0U	1.0U	No Data	4.0U	No Data	No Data	4.0U	No Data
	07/22/1993	No Data	1.0U	1.0U	No Data	4.0U	No Data	No Data	4.0U	No Data
	10/29/1993	No Data	No Data	1.0U	No Data	No Data	No Data	No Data	4.0U	No Data
	05/04/1994	No Data	No Data	1.0U	No Data	No Data	No Data	No Data	4.0U	No Data
	05/04/1994	No Data	No Data	1.0U	No Data	No Data	No Data	No Data	4.0U	No Data
	10/06/1994	109J	No Data	1.0U	1.0U	No Data	No Data	No Data	2.0U	2.0U
	04/19/1995	66.3J	No Data	1.0U	1.0U	No Data	8.0U	8.0U	4.0U	4.0U
	10/03/1995	No Data	No Data	No Data	No Data	No Data	6.7U	6.0U	No Data	No Data
SW92-07	11/17/1992	No Data	1.0U	1.0U	No Data	10.0U	10.0U	No Data	6.0U	No Data
	03/10/1993	No Data	1.0U	1.0U	No Data	10.0U	6.0U	No Data	3.0U	No Data
	05/05/1993	No Data	1.0U	1.0U	No Data	4.0U	No Data	No Data	3.0U	No Data
	07/21/1993	No Data	1.0U	1.0U	No Data	4.0U	No Data	No Data	4.0U	No Data
	10/29/1993	No Data	No Data	1.0U	No Data	No Data	No Data	No Data	4.0U	No Data
	05/03/1994	No Data	No Data	1.0U	No Data	No Data	No Data	No Data	4.0U	No Data
	10/05/1994	95.8J	No Data	1.0U	1.0U	No Data	No Data	No Data	2.0U	2.0U
	04/19/1995	61.2J	No Data	1.0U	1.0U	No Data	8.0U	8.0U	4.0U	4.0U
	10/03/1995	No Data	No Data	No Data	No Data	No Data	6.7U	6.0U	No Data	No Data
	04/09/1996	No Data	No Data	No Data	No Data	No Data	7.8U	7.0U	No Data	No Data
	06/26/1996	No Data	No Data	No Data	No Data	No Data	6.6U	No Data	No Data	No Data
Sorenson	11/10/1992	No Data	1.0U	1.0U	No Data	10.0U	10.0U	No Data	6.0U	No Data
	03/09/1993	No Data	1.0U	1.0U	No Data	10.0U	6.0U	No Data	3.0U	No Data
	05/05/1993	No Data	1.0U	1.0U	No Data	4.0U	No Data	No Data	3.0U	No Data
	07/20/1993	No Data	1.0U	1.0U	No Data	4.0U	No Data	No Data	8.7J	No Data
	10/28/1993	No Data	No Data	1.0U	No Data	No Data	No Data	No Data	4.0U	No Data
	05/03/1994	No Data	No Data	1.0U	No Data	No Data	No Data	No Data	4.0U	No Data
	10/06/1994	101J	No Data	1.0U	1.0U	No Data	No Data	No Data	2.0U	2.0U
	04/19/1995	62.8J	No Data	1.0U	1.0U	No Data	8.0U	8.0U	4.0U	4.0U
	04/19/1995	60.3J	No Data	1.0U	1.0U	No Data	8.0U	8.0U	4.0U	4.0U
	10/03/1995	No Data	No Data	No Data	No Data	No Data	6.7U	6.0U	No Data	No Data
	04/09/1996	No Data	No Data	No Data	No Data	No Data	7.8U	7.0U	No Data	No Data
	04/09/1996	No Data	No Data	No Data	No Data	No Data	7.8U	7.0U	No Data	No Data
	06/26/1996	No Data	No Data	No Data	No Data	No Data	6.6U	No Data	No Data	No Data

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Sample was unfiltered.
[c]Sample was filtered in the field.
[d]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value.

Surface-Water Metals Data[a]

Sample Location	Sample Date	Cu[b] (µg/L)	Cu[c] (µg/L)	Fe[b] (µg/L)	Fe[c] (µg/L)	Hg[b] (µg/L)	Mn[b] (µg/L)	Mn[c] (µg/L)	Mo[b] (µg/L)	Mo[c] (µg/L)
Downgradient - Upper Montezuma Creek										
23SW96-01	06/11/1996	3.7U	4.7	No Data	No Data	No Data	104	172	17.7	18.2
SW92-06	11/10/1992	4.0U	No Data	70.5J	No Data	0.10U	213	No Data	52.8	No Data
	03/01/1993	3.0U	No Data	358J	No Data	0.10U	460	No Data	22.0U	No Data
	05/05/1993	3.0U	No Data	349	No Data	0.10U	161	No Data	8.6J	No Data
	07/22/1993	5.0U	No Data	421	No Data	0.10U	159	No Data	14.5J	No Data
	07/22/1993	20.0J	No Data	433	No Data	0.10U	158	No Data	14.7J	No Data
	10/29/1993	3.0U	No Data	201	No Data	No Data	138	No Data	25.0J	No Data
	05/04/1994	4.5J	No Data	337	No Data	No Data	217	No Data	27.0U	No Data
	05/04/1994	2.0U	No Data	295	No Data	No Data	218	No Data	27.0U	No Data
	10/06/1994	4.0U	4.0U	217	6.0U	No Data	616	601	46.7J	45.0J
	04/19/1995	3.0U	3.9J	526	5.0U	No Data	223	225	11.1J	11.8J
	10/03/1995	4.4U	4.0U	No Data	No Data	No Data	164	142	15.6U	14.0U
SW92-07	11/17/1992	4.0U	No Data	159	No Data	0.10U	114	No Data	53.2	No Data
	03/10/1993	3.0U	No Data	237J	No Data	0.10U	368	No Data	22.0U	No Data
	05/05/1993	3.0U	No Data	427	No Data	0.10U	237	No Data	11.2J	No Data
	07/21/1993	5.0U	No Data	415	No Data	0.10U	158	No Data	16.8J	No Data
	10/29/1993	3.0U	No Data	285	No Data	No Data	245	No Data	28.1J	No Data
	05/03/1994	2.0U	No Data	433	No Data	No Data	302	No Data	27.0U	No Data
	10/05/1994	4.0U	4.0U	391	6.0U	No Data	358	352	35.9J	34.4J
	04/19/1995	6.3J	3.0U	438	5.0U	No Data	246	226	14.1J	14.8J
	10/03/1995	4.4U	4.0U	No Data	No Data	No Data	390	387	15.6U	14.0U
	04/09/1996	3.3U	3.0U	No Data	No Data	No Data	215	206	13.0J	12.7J
	06/26/1996	3.7U	No Data	No Data	No Data	No Data	88.1	No Data	19.4J	No Data
Sorenson	11/10/1992	4.0U	No Data	281	No Data	0.10U	175	No Data	54.9	No Data
	03/09/1993	3.0U	No Data	389J	No Data	0.10U	372	No Data	22.0U	No Data
	05/05/1993	3.3J	No Data	339	No Data	0.10U	195	No Data	10.6J	No Data
	07/20/1993	5.0U	No Data	297	No Data	0.10U	101	No Data	24.0J	No Data
	10/28/1993	3.0U	No Data	237	No Data	No Data	190	No Data	33.2J	No Data
	05/03/1994	2.0U	No Data	524	No Data	No Data	283	No Data	27.0U	No Data
	10/06/1994	4.0U	4.0U	150	6.0U	No Data	439	460	45.4J	45.9J
	04/19/1995	3.0U	3.0U	249	13.4J	No Data	234	249	13.9J	15.3J
	04/19/1995	3.0U	3.0U	269	16.0J	No Data	242	237	14.4J	15.4J
	10/03/1995	4.4U	4.0U	No Data	No Data	No Data	191	183	15.6U	23.4J
	04/09/1996	3.3U	3.0U	No Data	No Data	No Data	194	181	13.8J	13.5J
	04/09/1996	3.3U	3.0U	No Data	No Data	No Data	194	175	14.0J	14.5J
	06/26/1996	3.7U	No Data	No Data	No Data	No Data	81.6	No Data	24.4J	No Data

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Sample was unfiltered.
[c]Sample was filtered in the field.

Surface-Water Metals Data[a]

Sample Location	Sample Date	Ni[b] (µg/L)	Ni[c] (µg/L)	Pb[b] (µg/L)	Pb[c] (µg/L)	Sb[b] (µg/L)	Sb[c] (µg/L)	Se[b] (µg/L)	Se[c] (µg/L)	Sn[b] (µg/L)
Downgradient - Upper Montezuma Creek										
23SW96-01	06/11/1996	No Data	No Data	0.76J	0.72J	No Data	No Data	2.1J	3.1	No Data
SW92-06	11/10/1992	11.0U	No Data	1.0U	No Data	1.0U	No Data	8.7J	No Data	No Data
	03/01/1993	9.0U	No Data	1.0UJ	No Data	1.0U	No Data	2.8J	No Data	No Data
	05/05/1993	9.0U	No Data	1.0U	No Data	1.0U	No Data	2.0UJ	No Data	No Data
	07/22/1993	14.0U	No Data	1.0U	No Data	1.0U	No Data	3.0U	No Data	No Data
	07/22/1993	14.0U	No Data	1.0U	No Data	1.0U	No Data	3.0U	No Data	No Data
	10/29/1993	11.0U	No Data	1.0U	No Data	No Data	No Data	2.2UJ	No Data	No Data
	05/04/1994	6.0U	No Data	1.0U	No Data	No Data	No Data	1.0U	No Data	No Data
	05/04/1994	6.0U	No Data	1.0U	No Data	No Data	No Data	1.0U	No Data	No Data
	10/06/1994	8.0U	8.0U	1.0U	1.0U	No Data	No Data	8.5	9.8	No Data
	04/19/1995	9.0U	9.0U	1.0U	1.0U	No Data	No Data	2.2J	2.0J	1.0U
	10/03/1995	No Data	No Data	No Data	No Data	35.6U	32.0U	1.1U	1.0UJ	1.1U
SW92-07	11/17/1992	11.0U	No Data	1.0U	No Data	1.0U	No Data	3.1J	No Data	No Data
	03/10/1993	10.0J	No Data	1.0UJ	No Data	1.0U	No Data	19.6J	No Data	No Data
	05/05/1993	9.0U	No Data	1.0U	No Data	1.0U	No Data	2.0J	No Data	No Data
	07/21/1993	14.0U	No Data	1.0U	No Data	1.0U	No Data	3.3U	No Data	No Data
	10/29/1993	11.0U	No Data	1.0U	No Data	No Data	No Data	2.3J	No Data	No Data
	05/03/1994	6.0U	No Data	1.0U	No Data	No Data	No Data	4.6J	No Data	No Data
	10/05/1994	8.0U	8.0U	1.0U	1.0U	No Data	No Data	4.3J	5.1	No Data
	04/19/1995	9.0U	9.0U	1.0U	1.0U	No Data	No Data	2.2J	2.6J	1.0U
	10/03/1995	No Data	No Data	No Data	No Data	35.6U	32.0U	1.1U	1.0UJ	1.1U
	04/09/1996	No Data	No Data	0.44U	0.40U	No Data	No Data	2.1J	3.2J	No Data
	06/26/1996	No Data	No Data	2.1J	No Data	No Data	No Data	1.7UJ	No Data	No Data
Sorenson	11/10/1992	11.0U	No Data	1.0U	No Data	1.0U	No Data	4.5J	No Data	No Data
	03/09/1993	9.0U	No Data	1.0UJ	No Data	1.0U	No Data	7.8J	No Data	No Data
	05/05/1993	9.0U	No Data	1.0U	No Data	1.0U	No Data	2.0UJ	No Data	No Data
	07/20/1993	14.0U	No Data	1.0U	No Data	1.9J	No Data	3.3UJ	No Data	No Data
	10/28/1993	11.0U	No Data	1.0U	No Data	No Data	No Data	2.0U	No Data	No Data
	05/03/1994	6.0U	No Data	1.0U	No Data	No Data	No Data	4.7J	No Data	No Data
	10/06/1994	8.0U	8.0U	1.0U	1.0U	No Data	No Data	5.9	6.5	No Data
	04/19/1995	9.0U	9.0U	1.0U	1.0U	No Data	No Data	2.4J	2.4J	1.0U
	04/19/1995	9.0U	9.0U	1.0U	1.0U	No Data	No Data	2.6J	2.5J	1.0U
	10/03/1995	No Data	No Data	No Data	No Data	35.6U	32.0U	2.3J	1.4J	1.1U
	04/09/1996	No Data	No Data	0.44U	0.40U	No Data	No Data	2.6J	3.4J	No Data
	04/09/1996	No Data	No Data	0.44U	0.40U	No Data	No Data	2.9J	2.8J	No Data
	06/26/1996	No Data	No Data	2.3J	No Data	No Data	No Data	1.8J	No Data	No Data

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Sample was unfiltered.
[c]Sample was filtered in the field.

Surface-Water Metals Data[a]

Sample Location	Sample Date	Sn[c] (µg/L)	Sr[b] (µg/L)	Tl[b] (µg/L)	Tl[c] (µg/L)	U[b] (µg/L)	U[c] (µg/L)	V[b] (µg/L)	V[c] (µg/L)	Zn[b] (µg/L)
Downgradient - Upper Montezuma Creek										
23SW96-01	06/11/1996	No Data	No Data	No Data	No Data	158	159	7.7U	7.7U	1.9U
SW92-06	11/10/1992	No Data	2550	1.0U	No Data	436	No Data	9.1J	No Data	6.0U
	03/01/1993	No Data	2400	1.0U	No Data	239	No Data	129	No Data	23.2
	05/05/1993	No Data	1110	2.0U	No Data	61.7	No Data	106	No Data	13.4J
	07/22/1993	No Data	1210	1.0U	No Data	71.7	No Data	35.4J	No Data	17.2J
	07/22/1993	No Data	1220	1.0U	No Data	74.7	No Data	36.3J	No Data	13.3J
	10/29/1993	No Data	No Data	1.0U	No Data	149	No Data	110	No Data	7.0J
	05/04/1994	No Data	No Data	1.0U	No Data	122	No Data	93.4	No Data	17.7J
	05/04/1994	No Data	No Data	1.0U	No Data	120	No Data	97.4	No Data	6.2J
	10/06/1994	No Data	No Data	1.0U	1.0U	231	226	272	263	3.0J
	04/19/1995	1.0U	No Data	1.0U	1.0U	94.8	No Data	17.6J	17.5J	29.9
	10/03/1995	1.0U	No Data	No Data	No Data	No Data	No Data	14.8J	16.1J	5.9J
SW92-07	11/17/1992	No Data	2390	1.0U	No Data	411	No Data	11.7J	No Data	16.8J
	03/10/1993	No Data	1950	1.0U	No Data	281	No Data	73.3	No Data	6.4J
	05/05/1993	No Data	1160	2.0U	No Data	79.1	No Data	77.0	No Data	11.5J
	07/21/1993	No Data	1250	1.0U	No Data	91.0	No Data	31.4J	No Data	3.0U
	10/29/1993	No Data	No Data	1.0U	No Data	192	No Data	25.5J	No Data	13.2J
	05/03/1994	No Data	No Data	1.0U	No Data	159	No Data	59.4	No Data	5.2J
	10/05/1994	No Data	No Data	1.0U	1.0U	234	230	50.0J	42.7J	2.4J
	04/19/1995	1.0U	No Data	1.0U	1.0U	122	No Data	10.9J	4.0U	19.0J
	10/03/1995	1.0U	No Data	No Data	No Data	No Data	No Data	7.4J	6.0U	6.2J
	04/09/1996	No Data	No Data	No Data	No Data	136	136	6.7U	6.0U	2.2U
	06/26/1996	No Data	No Data	No Data	No Data	158	No Data	7.7U	No Data	9.9J
Sorenson	11/10/1992	No Data	2520	1.0U	No Data	456	No Data	13.0J	No Data	6.0U
	03/09/1993	No Data	1920	1.0U	No Data	292	No Data	119	No Data	12.5J
	05/05/1993	No Data	1150	2.0U	No Data	78.6	No Data	85.3	No Data	15.5J
	07/20/1993	No Data	1400	1.0U	No Data	121	No Data	51.1	No Data	3.0U
	10/28/1993	No Data	No Data	1.0U	No Data	221	No Data	46.4J	No Data	24.2
	05/03/1994	No Data	No Data	1.0U	No Data	162	No Data	72.7	No Data	9.5J
	10/06/1994	No Data	No Data	1.0U	1.0U	287	291	80.3	74.7	2.0U
	04/19/1995	1.0U	No Data	1.0U	1.0U	120	No Data	9.6J	11.8J	24.4
	04/19/1995	1.0U	No Data	1.0U	1.0U	128	No Data	12.3J	15.4J	9.5J
	10/03/1995	1.0U	No Data	No Data	No Data	No Data	No Data	12.2J	6.0U	3.3U
	04/09/1996	No Data	No Data	No Data	No Data	141	143	12.3J	6.0U	2.9J
	04/09/1996	No Data	No Data	No Data	No Data	141	138	6.7U	6.0U	3.8J
	06/26/1996	No Data	No Data	No Data	No Data	218	No Data	7.7U	No Data	8.1J

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Sample was unfiltered.
[c]Sample was filtered in the field.

Surface-Water Metals Data[a]

Sample Location	Sample Date	Zn[c] (µg/L)
Downgradient - Upper Montezuma Creek		
23SW96-01	06/11/1996	10.2J
SW92-06	11/10/1992	No Data
	03/01/1993	No Data
	05/05/1993	No Data
	07/22/1993	No Data
	07/22/1993	No Data
	10/29/1993	No Data
	05/04/1994	No Data
	05/04/1994	No Data
	10/06/1994	2.0U
	04/19/1995	20.7
	10/03/1995	3.0U
SW92-07	11/17/1992	No Data
	03/10/1993	No Data
	05/05/1993	No Data
	07/21/1993	No Data
	10/29/1993	No Data
	05/03/1994	No Data
	10/05/1994	2.0U
	04/19/1995	11.0J
	10/03/1995	3.0U
	04/09/1996	2.0U
	06/26/1996	No Data
Sorenson	11/10/1992	No Data
	03/09/1993	No Data
	05/05/1993	No Data
	07/20/1993	No Data
	10/28/1993	No Data
	05/03/1994	No Data
	10/06/1994	2.0U
	04/19/1995	3.1J
	04/19/1995	12.9J
	10/03/1995	3.0U
	04/09/1996	2.0U
	04/09/1996	2.0U
	06/26/1996	No Data

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.
[c]Sample was filtered in the field.

Surface-Water Metals Data[a]

Sample Location	Sample Date	Ag[b] (µg/L)	Ag[c] (µg/L)	Al[b] (µg/L)	Al[c] (µg/L)	As[b] (µg/L)	As[c] (µg/L)	B[b] (µg/L)	B[c] (µg/L)	Ba[b] (µg/L)
Downgradient - Upper Montezuma Creek										
W-4	11/10/1992	6.0U	No Data	21.4J	No Data	15.1J	No Data	96.9J	No Data	54.8J
	03/01/1993	4.0U	No Data	186J	No Data	8.6J	No Data	96.0J	No Data	47.3J
	05/05/1993	4.0U	No Data	393	No Data	3.2J	No Data	7.0U	No Data	54.4J
	07/21/1993	7.0U	No Data	157J	No Data	3.0U	No Data	38.7J	No Data	40.3J
	10/28/1993	1.0U	No Data	74.6J	No Data	5.8J	No Data	69.2J	No Data	52.5J
	10/28/1993	1.0U	No Data	49.8J	No Data	6.0J	No Data	61.1J	No Data	50.5J
	05/03/1994	4.0U	No Data	275	No Data	2.0U	No Data	59.3J	No Data	41.4J
	10/06/1994	1.0UJ	1.0U	137J	10.0U	10.2J	16.0	2.0UJ	52.9J	82.5J
	10/06/1994	1.0UJ	1.0U	171J	10.0U	12.4J	14.7	2.0UJ	51.4J	80.4J
	04/18/1995	1.0UJ	1.0U	130J	11.0U	1.0U	1.3J	28.5J	32.6J	62.2J
	04/18/1995	1.0UJ	1.0U	103J	11.0U	1.0U	1.2J	27.6J	37.3J	57.4J
	10/03/1995	No Data	No Data	60.9J	12.0U	1.2J	1.6J	6.0U	6.0U	No Data
Downgradient - Off-Site										
18SW96-01	06/11/1996	No Data	No Data	31.2U	912	3.8	4.8	No Data	No Data	No Data
19SW96-01	06/11/1996	No Data	No Data	31.2U	346	4.0	5.1	No Data	No Data	No Data
20SW96-01	06/11/1996	No Data	No Data	31.2U	114	3.8	4.4	No Data	No Data	No Data
Montezuma Creek										
	11/15/1992	6.0U	No Data	331	No Data	3.5J	No Data	42.0U	No Data	58.0J
	03/01/1993	4.0U	No Data	3210	No Data	3.0U	No Data	61.8J	No Data	91.2J
	04/22/1993	4.0U	No Data	3550	No Data	3.0U	No Data	35.2J	No Data	103
	07/22/1993	7.0U	No Data	240	No Data	3.3J	No Data	109	No Data	57.2J
	10/28/1993	1.0U	No Data	58.5J	No Data	4.0U	No Data	130	No Data	59.7J
	05/02/1994	4.0U	No Data	359	No Data	2.0U	No Data	79.8J	No Data	50.0J
	10/07/1994	1.0UJ	1.0U	91.2J	10.0U	4.9J	4.2J	94.6J	88.9J	126J
	04/19/1995	1.0UJ	1.0U	81.3J	11.0U	1.0U	2.8J	59.9J	57.3J	52.4J
	10/04/1995	No Data	No Data	3320	12.0U	5.9J	7.6J	223	198	No Data
Downgradient - Middle Montezuma Creek										
24SW96-01	06/11/1996	No Data	No Data	31.2U	331	2.6	3.1	No Data	No Data	No Data
25SW96-01	06/11/1996	No Data	No Data	31.2U	350	2.7	3.4	No Data	No Data	No Data
Downgradient - Lower Montezuma Creek										
06SW95-01	09/06/1995	No Data	No Data	420	20.0U	4.4J	5.6J	230	234	No Data

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Sample was unfiltered.
[c]Sample was filtered in the field.

Surface-Water Metals Data[a]

Sample Location	Sample Date	Ba[c] (µg/L)	Be[b] (µg/L)	Cd[b] (µg/L)	Cd[c] (µg/L)	CN[d] (µg/L)	Co[b] (µg/L)	Co[c] (µg/L)	Cr[b] (µg/L)	Cr[c] (µg/L)
Downgradient - Upper Montezuma Creek										
W-4	11/10/1992	No Data	1.0U	1.0U	No Data	10.0U	10.0U	No Data	6.0U	No Data
	03/01/1993	No Data	1.0U	1.0U	No Data	10.0U	6.0U	No Data	3.0U	No Data
	05/05/1993	No Data	1.0U	1.0U	No Data	4.0U	No Data	No Data	3.0U	No Data
	07/21/1993	No Data	1.0U	1.0U	No Data	4.0U	No Data	No Data	4.0U	No Data
	10/28/1993	No Data	No Data	1.0U	No Data	No Data	No Data	No Data	4.0U	No Data
	10/28/1993	No Data	No Data	1.0U	No Data	No Data	No Data	No Data	4.0U	No Data
	05/03/1994	No Data	No Data	1.0U	No Data	No Data	No Data	No Data	4.0U	No Data
	10/06/1994	81.2J	No Data	1.0U	1.0U	No Data	No Data	No Data	2.0U	2.0U
	10/06/1994	78.2J	No Data	1.0U	1.0U	No Data	No Data	No Data	2.0U	2.0U
	04/18/1995	64.1J	No Data	1.0U	1.0U	No Data	8.0U	8.0U	4.0U	4.0U
	04/18/1995	63.6J	No Data	1.0U	1.0U	No Data	8.0U	8.0U	4.0U	4.0U
	10/03/1995	No Data	No Data	No Data	No Data	No Data	6.7U	6.0U	No Data	No Data
Downgradient - Off-Site										
18SW96-01	06/11/1996	No Data	No Data	No Data	No Data	No Data	6.6U	6.6U	No Data	No Data
19SW96-01	06/11/1996	No Data	No Data	No Data	No Data	No Data	6.6U	6.6U	No Data	No Data
20SW96-01	06/11/1996	No Data	No Data	No Data	No Data	No Data	6.6U	6.6U	No Data	No Data
Montezuma Creek										
	11/15/1992	No Data	1.0U	1.0U	No Data	10.0U	10.0U	No Data	6.0U	No Data
	03/01/1993	No Data	1.0U	1.0U	No Data	10.0U	6.0U	No Data	3.0U	No Data
	04/22/1993	No Data	1.0U	1.0U	No Data	4.0U	No Data	No Data	3.0U	No Data
	07/22/1993	No Data	1.0U	1.0U	No Data	4.0U	No Data	No Data	4.0U	No Data
	10/28/1993	No Data	No Data	1.0U	No Data	No Data	No Data	No Data	4.0U	No Data
	05/02/1994	No Data	No Data	1.0U	No Data	No Data	No Data	No Data	26.3	No Data
	10/07/1994	132J	No Data	1.0U	1.0U	No Data	No Data	No Data	2.0U	2.0U
	04/19/1995	54.9J	No Data	1.0U	1.0U	No Data	8.0U	8.0U	5.1J	4.0U
	10/04/1995	No Data	No Data	No Data	No Data	No Data	6.7U	6.0U	No Data	No Data
Downgradient - Middle Montezuma Creek										
24SW96-01	06/11/1996	No Data	No Data	No Data	No Data	No Data	6.6U	6.6U	No Data	No Data
25SW96-01	06/11/1996	No Data	No Data	No Data	No Data	No Data	6.6U	6.6U	No Data	No Data
Downgradient - Lower Montezuma Creek										
06SW95-01	09/06/1995	No Data	No Data	No Data	No Data	No Data	4.4U	4.0U	No Data	No Data

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Sample was unfiltered.
[c]Sample was filtered in the field.
[d]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value.

Surface-Water Metals Data[a]

Sample Location	Sample Date	Cu[b] (µg/L)	Cu[c] (µg/L)	Fe[b] (µg/L)	Fe[c] (µg/L)	Hg[b] (µg/L)	Mn[b] (µg/L)	Mn[c] (µg/L)	Mo[b] (µg/L)	Mo[c] (µg/L)
Downgradient - Upper Montezuma Creek										
W-4	11/10/1992	4.0U	No Data	184	No Data	0.10U	274	No Data	90.9	No Data
	03/01/1993	3.0U	No Data	217J	No Data	0.10U	366	No Data	22.0U	No Data
	05/05/1993	5.7J	No Data	467	No Data	0.10U	119	No Data	7.5J	No Data
	07/21/1993	5.0U	No Data	279	No Data	0.10U	81.8	No Data	12.9J	No Data
	10/28/1993	10.7J	No Data	62.2J	No Data	No Data	140	No Data	20.9J	No Data
	10/28/1993	3.0U	No Data	62.3J	No Data	No Data	139	No Data	21.6J	No Data
	05/03/1994	2.0U	No Data	320	No Data	No Data	128	No Data	27.0U	No Data
	10/06/1994	4.0U	4.0U	154	6.0U	No Data	472	467	36.6J	38.1J
	10/06/1994	4.0U	4.0U	190	6.0U	No Data	466	453	36.5J	34.8J
	04/18/1995	3.0U	3.8J	207	5.0U	No Data	147	143	9.8J	10.7J
	04/18/1995	3.0U	3.9J	147	5.0U	No Data	140	141	9.3J	10.1J
	10/03/1995	4.4U	4.0U	No Data	No Data	No Data	135	131	15.6U	14.0U
Downgradient - Off-Site										
18SW96-01	06/11/1996	3.7U	3.7U	No Data	No Data	No Data	99.0	119	12.2J	12.1J
19SW96-01	06/11/1996	3.7U	3.7U	No Data	No Data	No Data	328	355	9.6J	9.3J
20SW96-01	06/11/1996	3.7U	3.7U	No Data	No Data	No Data	85.4	90.6	15.1	15.3
Montezuma Creek										
	11/15/1992	4.0U	No Data	340	No Data	0.10U	122	No Data	5.4J	No Data
	03/01/1993	3.0U	No Data	1580J	No Data	0.10U	227	No Data	22.0U	No Data
	04/22/1993	4.6J	No Data	4450	No Data	0.10U	157	No Data	1.4J	No Data
	07/22/1993	5.0U	No Data	267	No Data	0.10U	54.1	No Data	16.5J	No Data
	10/28/1993	3.0U	No Data	248	No Data	No Data	175	No Data	18.2J	No Data
	05/02/1994	3.7J	No Data	581	No Data	No Data	307	No Data	27.0U	No Data
	10/07/1994	4.0U	4.0U	224	6.0U	No Data	374	382	14.3J	15.2J
	04/19/1995	3.3J	3.0U	319	9.1J	No Data	213	205	11.4J	10.6J
	10/04/1995	4.4U	4.0U	No Data	No Data	No Data	166	117	15.6U	23.4J
Downgradient - Middle Montezuma Creek										
24SW96-01	06/11/1996	3.7U	3.7U	No Data	No Data	No Data	192	208	16.3	16.0
25SW96-01	06/11/1996	3.7U	3.7U	No Data	No Data	No Data	178	197	15.8	15.6
Downgradient - Lower Montezuma Creek										
06SW95-01	09/06/1995	5.6U	5.0U	No Data	No Data	No Data	135	106	28.9U	26.0U

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Sample was unfiltered.
[c]Sample was filtered in the field.

Surface-Water Metals Data[a]

Sample Location	Sample Date	Ni[b] (µg/L)	Ni[c] (µg/L)	Pb[b] (µg/L)	Pb[c] (µg/L)	Sb[b] (µg/L)	Sb[c] (µg/L)	Se[b] (µg/L)	Se[c] (µg/L)	Sn[b] (µg/L)
Downgradient - Upper Montezuma Creek										
W-4	11/10/1992	11.0U	No Data	1.0U	No Data	1.0U	No Data	17.5	No Data	No Data
	03/01/1993	9.0U	No Data	1.0UJ	No Data	1.0U	No Data	9.6J	No Data	No Data
	05/05/1993	9.0U	No Data	1.0U	No Data	1.0U	No Data	3.2J	No Data	No Data
	07/21/1993	14.0U	No Data	1.0J	No Data	1.0U	No Data	3.3UJ	No Data	No Data
	10/28/1993	11.0U	No Data	1.0U	No Data	No Data	No Data	2.2UJ	No Data	No Data
	10/28/1993	11.0U	No Data	1.0U	No Data	No Data	No Data	2.0UJ	No Data	No Data
	05/03/1994	6.0U	No Data	1.0U	No Data	No Data	No Data	4.7J	No Data	No Data
	10/06/1994	8.0U	8.0U	1.0U	1.0U	No Data	No Data	9.8	10.9	No Data
	10/06/1994	8.0U	8.0U	1.0U	1.0U	No Data	No Data	9.4	11.5	No Data
	04/18/1995	9.0U	9.0U	1.0U	1.0U	No Data	No Data	2.4J	1.3J	1.0U
	04/18/1995	9.0U	9.0U	1.0U	1.0U	No Data	No Data	1.8J	1.6J	1.0U
	10/03/1995	No Data	No Data	No Data	No Data	35.6U	32.0U	1.1U	1.0UJ	1.1U
Downgradient - Off-Site										
18SW96-01	06/11/1996	No Data	No Data	0.79J	0.74J	No Data	No Data	1.7U	1.7U	No Data
19SW96-01	06/11/1996	No Data	No Data	0.41J	0.82J	No Data	No Data	1.7U	1.7U	No Data
20SW96-01	06/11/1996	No Data	No Data	0.80J	0.82J	No Data	No Data	1.7J	1.7U	No Data
Montezuma Creek										
	11/15/1992	11.0U	No Data	1.0U	No Data	1.0U	No Data	2.4J	No Data	No Data
	03/01/1993	9.0U	No Data	3.2J	No Data	1.0U	No Data	2.5J	No Data	No Data
	04/22/1993	9.0U	No Data	6.5	No Data	1.1J	No Data	2.0U	No Data	No Data
	07/22/1993	14.0U	No Data	1.1J	No Data	1.0U	No Data	3.0U	No Data	No Data
	10/28/1993	11.0U	No Data	1.0U	No Data	No Data	No Data	2.0U	No Data	No Data
	05/02/1994	6.8J	No Data	1.0U	No Data	No Data	No Data	1.0U	No Data	No Data
	10/07/1994	8.0U	8.0U	1.0U	1.0U	No Data	No Data	2.0U	2.0U	No Data
	04/19/1995	9.0U	9.0U	1.0U	1.1J	No Data	No Data	2.4J	1.0J	1.0U
	10/04/1995	No Data	No Data	No Data	No Data	35.6U	32.0U	1.1U	1.0UJ	1.1U
Downgradient - Middle Montezuma Creek										
24SW96-01	06/11/1996	No Data	No Data	0.75J	0.77J	No Data	No Data	2.0J	2.3	No Data
25SW96-01	06/11/1996	No Data	No Data	0.82J	0.79J	No Data	No Data	1.7U	1.7U	No Data
Downgradient - Lower Montezuma Creek										
06SW95-01	09/06/1995	No Data	No Data	No Data	No Data	No Data	No Data	2.2U	2.0U	1.1U

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[b]Sample was unfiltered.
[c]Sample was filtered in the field.

Surface-Water Metals Data[a]

Sample Location	Sample Date	Sn[c] (µg/L)	Sr[b] (µg/L)	Tl[b] (µg/L)	Tl[c] (µg/L)	U[b] (µg/L)	U[c] (µg/L)	V[b] (µg/L)	V[c] (µg/L)	Zn[b] (µg/L)
Downgradient - Upper Montezuma Creek										
W-4	11/10/1992	No Data	2560	1.0U	No Data	508	No Data	280	No Data	57.8
	03/01/1993	No Data	2500	1.0U	No Data	203	No Data	203	No Data	21.2
	05/05/1993	No Data	1020	2.0U	No Data	59.5	No Data	117	No Data	18.3J
	07/21/1993	No Data	1060	1.0U	No Data	47.7	No Data	37.6J	No Data	3.0U
	10/28/1993	No Data	No Data	1.0U	No Data	90.8	No Data	137	No Data	26.9
	10/28/1993	No Data	No Data	1.0U	No Data	90.4	No Data	141	No Data	12.8J
	05/03/1994	No Data	No Data	1.0U	No Data	85.5	No Data	128	No Data	21.6
	10/06/1994	No Data	No Data	1.0U	1.0U	159	163	414	400	3.3J
	10/06/1994	No Data	No Data	1.0U	1.0U	155	153	404	411	9.0J
	04/18/1995	1.0U	No Data	1.0U	1.0U	66.6	No Data	21.1J	25.2J	16.0J
	04/18/1995	1.0U	No Data	1.0U	1.0U	64.6	No Data	20.3J	23.6J	17.3J
	10/03/1995	1.0U	No Data	No Data	No Data	No Data	No Data	18.3J	14.3J	3.3U
Downgradient - Off-Site										
18SW96-01	06/11/1996	No Data	No Data	No Data	No Data	62.2	63.2	7.7U	7.7U	1.9U
19SW96-01	06/11/1996	No Data	No Data	No Data	No Data	49.8	49.0	7.7U	7.7U	1.9U
20SW96-01	06/11/1996	No Data	No Data	No Data	No Data	101	104	7.7U	7.7U	1.9U
Montezuma Creek										
	11/15/1992	No Data	1500	1.0U	No Data	20.8	No Data	7.0U	No Data	86.7
	03/01/1993	No Data	1510	1.0U	No Data	45.2	No Data	4.0U	No Data	23.1
	04/22/1993	No Data	358	2.0U	No Data	1.0U	No Data	4.0U	No Data	33.6
	07/22/1993	No Data	1210	1.0U	No Data	83.1	No Data	13.4J	No Data	8.5J
	10/28/1993	No Data	No Data	1.0U	No Data	110	No Data	5.0U	No Data	7.0U
	05/02/1994	No Data	No Data	1.0U	No Data	116	No Data	6.6J	No Data	13.9J
	10/07/1994	No Data	No Data	1.0U	1.0U	100	103	6.0U	6.0U	4.9J
	04/19/1995	1.0U	No Data	1.0U	1.0U	84.3	No Data	4.0U	4.0U	7.1J
	10/04/1995	1.0U	No Data	No Data	No Data	No Data	No Data	14.3J	8.3J	4.5J
Downgradient - Middle Montezuma Creek										
24SW96-01	06/11/1996	No Data	No Data	No Data	No Data	140	136	7.7U	7.7U	4.6J
25SW96-01	06/11/1996	No Data	No Data	No Data	No Data	135	133	7.7U	7.7U	4.7J
Downgradient - Lower Montezuma Creek										
06SW95-01	09/06/1995	1.0U	No Data	No Data	No Data	No Data	No Data	4.4U	4.0U	3.3U

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[b]Sample was unfiltered.
[c]Sample was filtered in the field.

Surface-Water Metals Data[a]

Sample Location	Sample Date	Zn[c] (µg/L)
Downgradient - Upper Montezuma Creek		
W-4	11/10/1992	No Data
	03/01/1993	No Data
	05/05/1993	No Data
	07/21/1993	No Data
	10/28/1993	No Data
	10/28/1993	No Data
	05/03/1994	No Data
	10/06/1994	2.0U
	10/06/1994	2.0U
	04/18/1995	9.7J
	04/18/1995	11.3J
	10/03/1995	3.0U
Downgradient - Off-Site		
18SW96-01	06/11/1996	19.8
19SW96-01	06/11/1996	1.9U
20SW96-01	06/11/1996	16.2
Montezuma Creek		
	11/15/1992	No Data
	03/01/1993	No Data
	04/22/1993	No Data
	07/22/1993	No Data
	10/28/1993	No Data
	05/02/1994	No Data
	10/07/1994	2.0U
	04/19/1995	20.1
	10/04/1995	3.0U
Downgradient - Middle Montezuma Creek		
24SW96-01	06/11/1996	3.3J
25SW96-01	06/11/1996	5.5J
Downgradient - Lower Montezuma Creek		
06SW95-01	09/06/1995	3.0U

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.
[c]Sample was filtered in the field.

Surface-Water Metals Data[a]

Sample Location	Sample Date	Ag[b] (µg/L)	Ag[c] (µg/L)	Al[b] (µg/L)	Al[c] (µg/L)	As[b] (µg/L)	As[c] (µg/L)	B[b] (µg/L)	B[c] (µg/L)	Ba[b] (µg/L)
Downgradient - Lower Montezuma Creek										
07SW95-01	09/06/1995	No Data	No Data	418	20.0U	4.6J	5.8J	239	233	No Data
08SW95-01	09/06/1995	No Data	No Data	904	20.0U	4.6J	6.0J	233	236	No Data
09SW95-01	09/06/1995	No Data	No Data	622	20.0U	4.6J	5.9J	232	234	No Data
Cabin Spring	10/17/1995	No Data	No Data	8930	12.0U	1.7J	1.0U	6.7U	21.7J	No Data
SW92-08	11/17/1992	6.0U	No Data	27.1J	No Data	3.6J	No Data	76.8J	No Data	40.5J
	03/10/1993	4.0U	No Data	77.4J	No Data	3.0U	No Data	112	No Data	43.8J
	05/05/1993	4.0U	No Data	147J	No Data	3.0U	No Data	46.3J	No Data	62.3J
	07/22/1993	7.0U	No Data	84.4J	No Data	3.2J	No Data	75.8J	No Data	43.9J
	11/01/1993	1.0U	No Data	29.0U	No Data	4.0UJ	No Data	91.0J	No Data	67.6J
	05/03/1994	4.0U	No Data	128J	No Data	2.0U	No Data	76.1J	No Data	45.8J
	10/06/1994	1.0UJ	1.0U	17.4J	10.0U	2.5J	3.6J	79.3J	60.9J	76.1J
	04/20/1995	1.0UJ	1.0U	209	11.0U	1.0U	1.6J	38.8J	52.7J	61.3J
	10/04/1995	No Data	No Data	1350	12.0U	4.2J	5.2J	240	218	No Data
SW92-09	11/17/1992	6.0U	No Data	34.3J	No Data	2.9J	No Data	81.3J	No Data	40.6J
	03/10/1993	4.0U	No Data	67.3J	No Data	3.0U	No Data	104	No Data	40.1J
	05/05/1993	4.0U	No Data	262	No Data	3.0UJ	No Data	7.0U	No Data	64.0J
	07/22/1993	7.0U	No Data	14.0U	No Data	3.0U	No Data	3.0U	No Data	43.9J
	11/01/1993	1.0U	No Data	31.5J	No Data	4.0UJ	No Data	91.6J	No Data	65.1J
	05/03/1994	4.0U	No Data	389	No Data	2.0U	No Data	77.8J	No Data	47.6J
	10/06/1994	1.0UJ	1.0U	13.3J	10.0U	2.0UJ	3.5J	75.8J	64.1J	75.7J
	04/20/1995	1.0UJ	1.0U	70.1J	11.0U	1.0U	1.6J	42.0J	47.3J	54.9J
	10/04/1995	No Data	No Data	1280	12.0U	4.1J	5.0J	243	220	No Data
SW94-01	10/04/1995	No Data	No Data	1410	12.0U	4.3J	5.2J	248	217	No Data
	02/16/1996	No Data	No Data	947	12.0U	1.1U	1.0U	No Data	No Data	No Data
	02/16/1996	No Data	No Data	838	12.0U	1.1U	1.0U	No Data	No Data	No Data
	04/09/1996	No Data	No Data	482	9.0U	0.44U	0.44U	No Data	No Data	No Data
	06/26/1996	No Data	No Data	219J	No Data	2.0J	No Data	No Data	No Data	No Data
Crossgradient - Off-Site										
Pehrson 1	05/06/1994	4.0U	No Data	158J	No Data	10.6	No Data	55.3J	No Data	76.3J
	10/10/1994	1.0UJ	1.0U	1320	10.0U	7.9J	5.8J	83.1J	89.9J	147J
Pehrson 2	05/06/1994	4.0U	No Data	1450	No Data	11.0	No Data	110	No Data	141J
	04/19/1995	26.6J	1.0U	581	11.0U	1.0U	3.7J	69.3J	74.1J	72.7J
Upper North Drainage	05/06/1994	4.0U	No Data	315	No Data	2.4J	No Data	48.4J	No Data	136J
	10/12/1994	1.0UJ	1.0U	298	10.0U	4.4J	3.7J	67.4J	66.0J	290

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[b]Sample was unfiltered.
[c]Sample was filtered in the field.

Surface-Water Metals Data[a]

Sample Location	Sample Date	Ba[c] (µg/L)	Be[b] (µg/L)	Cd[b] (µg/L)	Cd[c] (µg/L)	CN[d] (µg/L)	Co[b] (µg/L)	Co[c] (µg/L)	Cr[b] (µg/L)	Cr[c] (µg/L)
Downgradient - Lower Montezuma Creek										
07SW95-01	09/06/1995	No Data	No Data	No Data	No Data	No Data	4.4U	4.0U	No Data	No Data
08SW95-01	09/06/1995	No Data	No Data	No Data	No Data	No Data	4.4U	4.0U	No Data	No Data
09SW95-01	09/06/1995	No Data	No Data	No Data	No Data	No Data	4.4U	4.0U	No Data	No Data
Cabin Spring	10/17/1995	No Data	No Data	No Data	No Data	No Data	6.7U	6.0U	No Data	No Data
SW92-08	11/17/1992	No Data	1.0U	1.0U	No Data	10.0U	10.0U	No Data	6.0U	No Data
	03/10/1993	No Data	1.0U	1.0U	No Data	10.0U	6.0U	No Data	3.0U	No Data
	05/05/1993	No Data	1.0U	1.0U	No Data	4.0U	No Data	No Data	3.0U	No Data
	07/22/1993	No Data	1.0U	1.0U	No Data	4.0U	No Data	No Data	4.0U	No Data
	11/01/1993	No Data	No Data	1.0U	No Data	No Data	No Data	No Data	4.0U	No Data
	05/03/1994	No Data	No Data	1.0U	No Data	No Data	No Data	No Data	4.0U	No Data
	10/06/1994	77.2J	No Data	1.0U	1.0U	No Data	No Data	No Data	2.0U	2.0U
	04/20/1995	65.1J	No Data	1.0U	1.0U	No Data	8.0U	8.0U	4.0U	4.0U
	10/04/1995	No Data	No Data	No Data	No Data	No Data	6.7U	6.0U	No Data	No Data
SW92-09	11/17/1992	No Data	1.0U	1.0U	No Data	10.0U	10.0U	No Data	6.0U	No Data
	03/10/1993	No Data	1.0U	1.0U	No Data	10.0U	6.0U	No Data	3.0U	No Data
	05/05/1993	No Data	1.0U	1.0U	No Data	4.0U	No Data	No Data	3.0U	No Data
	07/22/1993	No Data	1.0U	1.0U	No Data	4.0U	No Data	No Data	4.0U	No Data
	11/01/1993	No Data	No Data	1.0U	No Data	No Data	No Data	No Data	4.0U	No Data
	05/03/1994	No Data	No Data	1.0U	No Data	No Data	No Data	No Data	4.0U	No Data
	10/06/1994	73.7J	No Data	1.0U	1.0U	No Data	No Data	No Data	2.0U	2.0U
	04/20/1995	61.4J	No Data	1.0U	1.0U	No Data	8.0U	8.0U	4.0U	4.0U
	10/04/1995	No Data	No Data	No Data	No Data	No Data	6.7U	6.0U	No Data	No Data
SW94-01	10/04/1995	No Data	No Data	No Data	No Data	No Data	6.7U	6.0U	No Data	No Data
	02/16/1996	No Data	No Data	No Data	No Data	No Data	5.6U	5.0U	No Data	No Data
	02/16/1996	No Data	No Data	No Data	No Data	No Data	5.6U	5.0U	No Data	No Data
	04/09/1996	No Data	No Data	No Data	No Data	No Data	7.8U	7.0U	No Data	No Data
	06/26/1996	No Data	No Data	No Data	No Data	No Data	6.6U	No Data	No Data	No Data
Crossgradient - Off-Site										
Pehrson 1	05/06/1994	No Data	No Data	1.0U	No Data	No Data	No Data	No Data	4.0U	No Data
	10/10/1994	110J	No Data	1.0U	1.0U	No Data	No Data	No Data	2.0U	2.0U
Pehrson 2	05/06/1994	No Data	No Data	1.0U	No Data	No Data	No Data	No Data	4.0U	No Data
	04/19/1995	74.4J	No Data	1.0U	1.0U	No Data	8.0U	8.0U	4.0U	4.0U
Upper North Drainage	05/06/1994	No Data	No Data	1.0U	No Data	No Data	No Data	No Data	4.0U	No Data
	10/12/1994	260	No Data	1.0U	1.0U	No Data	No Data	No Data	2.0U	2.0U

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Sample was unfiltered.
[c]Sample was filtered in the field.
[d]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value.

Surface-Water Metals Data[a]

Sample Location	Sample Date	Cu[b] (µg/L)	Cu[c] (µg/L)	Fe[b] (µg/L)	Fe[c] (µg/L)	Hg[b] (µg/L)	Mn[b] (µg/L)	Mn[c] (µg/L)	Mo[b] (µg/L)	Mo[c] (µg/L)
Downgradient - Lower Montezuma Creek										
07SW95-01	09/06/1995	5.6U	5.0U	No Data	No Data	No Data	137	113	28.9U	26.0U
08SW95-01	09/06/1995	5.6U	5.0U	No Data	No Data	No Data	119	88.8	28.9U	26.0U
09SW95-01	09/06/1995	5.6U	13.8J	No Data	No Data	No Data	95.5	70.0	28.9U	26.0U
Cabin Spring	10/17/1995	4.4U	4.0U	No Data	No Data	No Data	140	1.0U	15.6U	14.0U
SW92-08	11/17/1992	4.0U	No Data	153	No Data	0.10U	181	No Data	36.8J	No Data
	03/10/1993	3.0U	No Data	228J	No Data	0.10U	330	No Data	22.0U	No Data
	05/05/1993	3.0U	No Data	357	No Data	0.10U	302	No Data	10.2J	No Data
	07/22/1993	5.0U	No Data	184	No Data	0.10U	60.3	No Data	15.7J	No Data
	11/01/1993	3.0U	No Data	213	No Data	No Data	200	No Data	28.3J	No Data
	05/03/1994	2.0U	No Data	367	No Data	No Data	334	No Data	31.0J	No Data
	10/06/1994	4.0U	4.0U	90.8J	6.0U	No Data	98.4	97.0	28.8J	28.0J
	04/20/1995	3.0U	3.0U	335	7.1J	No Data	350	333	13.8J	13.7J
	10/04/1995	4.4U	4.0U	No Data	No Data	No Data	232	199	15.6U	15.4J
SW92-09	11/17/1992	4.0U	No Data	10.0U	No Data	0.10U	27.7	No Data	35.8J	No Data
	03/10/1993	3.0U	No Data	205J	No Data	0.10U	282	No Data	22.0U	No Data
	05/05/1993	3.0U	No Data	464	No Data	0.10U	306	No Data	10.3J	No Data
	07/22/1993	5.0U	No Data	143	No Data	0.10U	51.6	No Data	16.4J	No Data
	11/01/1993	3.0U	No Data	187	No Data	No Data	161	No Data	27.8J	No Data
	05/03/1994	2.0U	No Data	427	No Data	No Data	291	No Data	27.0U	No Data
	10/06/1994	4.0U	4.0U	82.6J	6.0U	No Data	53.8	49.4	28.1J	26.9J
	04/20/1995	51.5	3.0U	192	9.1J	No Data	274	281	13.3J	14.9J
	10/04/1995	4.4U	4.0U	No Data	No Data	No Data	207	180	15.6U	22.5J
SW94-01	10/04/1995	4.4U	4.0U	No Data	No Data	No Data	190	157	15.6U	21.5J
	02/16/1996	4.4U	4.0U	No Data	No Data	No Data	398	368	14.2J	14.9J
	02/16/1996	4.4U	4.0U	No Data	No Data	No Data	398	396	15.2J	14.3J
	04/09/1996	3.3U	3.0U	No Data	No Data	No Data	315	306	13.5J	13.0J
	06/26/1996	3.7U	No Data	No Data	No Data	No Data	42.1	No Data	19.5J	No Data
Crossgradient - Off-Site										
Pehrson 1	05/06/1994	2.0U	No Data	1670	No Data	No Data	1000	No Data	27.0U	No Data
	10/10/1994	16.3J	4.0U	2060	6.0U	No Data	286	69.8	1.0U	1.0U
Pehrson 2	05/06/1994	2.0U	No Data	1550	No Data	No Data	561	No Data	27.0U	No Data
	04/19/1995	15.3J	3.0U	533	18.3J	No Data	43.1	26.3	1.1J	1.2J
Upper North Drainage	05/06/1994	2.0U	No Data	370	No Data	No Data	119	No Data	27.0U	No Data
	10/12/1994	4.0U	4.0U	300	17.4J	No Data	34.7	26.6	4.4J	3.4J

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Sample was unfiltered.
[c]Sample was filtered in the field.

Surface-Water Metals Data[a]

Sample Location	Sample Date	Ni[b] (µg/L)	Ni[c] (µg/L)	Pb[b] (µg/L)	Pb[c] (µg/L)	Sb[b] (µg/L)	Sb[c] (µg/L)	Se[b] (µg/L)	Se[c] (µg/L)	Sn[b] (µg/L)
Downgradient - Lower Montezuma Creek										
07SW95-01	09/06/1995	No Data	No Data	No Data	No Data	No Data	No Data	2.2U	2.0U	1.1U
08SW95-01	09/06/1995	No Data	No Data	No Data	No Data	No Data	No Data	2.2U	2.0U	1.1U
09SW95-01	09/06/1995	No Data	No Data	No Data	No Data	No Data	No Data	2.2U	2.0U	1.1U
Cabin Spring	10/17/1995	No Data	No Data	No Data	No Data	35.6U	32.0U	1.1U	6.1	1.1U
SW92-08	11/17/1992	11.0U	No Data	1.0U	No Data	1.0U	No Data	2.2UJ	No Data	No Data
	03/10/1993	9.0U	No Data	1.0UJ	No Data	1.0U	No Data	3.4J	No Data	No Data
	05/05/1993	9.0U	No Data	4.0	No Data	1.0U	No Data	2.4J	No Data	No Data
	07/22/1993	14.0U	No Data	1.5J	No Data	1.0U	No Data	3.0U	No Data	No Data
	11/01/1993	11.0U	No Data	1.0U	No Data	No Data	No Data	2.0UJ	No Data	No Data
	05/03/1994	6.0U	No Data	1.0U	No Data	No Data	No Data	3.7J	No Data	No Data
	10/06/1994	8.0U	8.0U	1.0U	1.0U	No Data	No Data	2.1J	3.7J	No Data
	04/20/1995	9.0U	9.0U	1.0U	1.0U	No Data	No Data	2.1J	2.0J	1.0U
	10/04/1995	No Data	No Data	No Data	No Data	35.6U	32.0U	1.2J	1.0UJ	1.1U
SW92-09	11/17/1992	11.0U	No Data	1.0U	No Data	1.0U	No Data	2.7J	No Data	No Data
	03/10/1993	9.0U	No Data	1.0UJ	No Data	1.0U	No Data	2.7J	No Data	No Data
	05/05/1993	9.0U	No Data	1.0U	No Data	1.0U	No Data	2.0UJ	No Data	No Data
	07/22/1993	14.0U	No Data	1.0U	No Data	1.0U	No Data	3.0U	No Data	No Data
	11/01/1993	11.0U	No Data	1.0U	No Data	No Data	No Data	2.0UJ	No Data	No Data
	05/03/1994	6.0U	No Data	1.0U	No Data	No Data	No Data	4.1J	No Data	No Data
	10/06/1994	8.0U	8.0U	1.2J	1.0U	No Data	No Data	2.5J	3.8J	No Data
	04/20/1995	9.0U	9.0U	3.6	1.0U	No Data	No Data	2.0J	2.5J	1.0U
	10/04/1995	No Data	No Data	No Data	No Data	35.6U	32.0U	1.9J	1.0UJ	1.1U
SW94-01	10/04/1995	No Data	No Data	No Data	No Data	35.6U	32.0U	1.2J	1.0UJ	1.1U
	02/16/1996	10.0U	9.0U	1.1U	1.0U	1.1U	1.0U	2.2UJ	2.0U	1.1U
	02/16/1996	10.0U	9.0U	1.1U	1.0U	1.1U	1.0U	2.2UJ	2.0J	1.1U
	04/09/1996	No Data	No Data	0.44U	0.40U	No Data	No Data	1.6J	2.0J	No Data
	06/26/1996	No Data	No Data	2.4J	No Data	No Data	No Data	1.7UJ	No Data	No Data
Crossgradient - Off-Site										
Pehrson 1	05/06/1994	6.0U	No Data	1.0U	No Data	No Data	No Data	1.0U	No Data	No Data
	10/10/1994	8.0U	8.0U	2.2J	1.0U	No Data	No Data	2.0U	2.0U	No Data
Pehrson 2	05/06/1994	6.0U	No Data	1.8J	No Data	No Data	No Data	1.0U	No Data	No Data
	04/19/1995	9.0U	9.0U	1.0U	1.0U	No Data	No Data	1.3J	1.0U	1.0U
Upper North Drainage	05/06/1994	6.0U	No Data	1.0U	No Data	No Data	No Data	1.0U	No Data	No Data
	10/12/1994	8.0U	8.0U	1.0U	1.0U	No Data	No Data	2.0U	2.0U	No Data

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected: value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Sample was unfiltered.
[c]Sample was filtered in the field.

Surface-Water Metals Data[a]

Sample Location	Sample Date	Sn[c] (µg/L)	Sr[b] (µg/L)	Tl[b] (µg/L)	Tl[c] (µg/L)	U[b] (µg/L)	U[c] (µg/L)	V[b] (µg/L)	V[c] (µg/L)	Zn[b] (µg/L)
Downgradient - Lower Montezuma Creek										
07SW95-01	09/06/1995	1.0U	No Data	No Data	No Data	No Data	No Data	7.4J	6.1J	14.2J
08SW95-01	09/06/1995	1.0U	No Data	No Data	No Data	No Data	No Data	6.5J	4.7J	4.9J
09SW95-01	09/06/1995	1.0U	No Data	No Data	No Data	No Data	No Data	9.1J	6.0J	4.7J
Cabin Spring	10/17/1995	1.0U	No Data	No Data	No Data	No Data	No Data	10.6J	6.0U	58.9
SW92-08	11/17/1992	No Data	2180	1.0U	No Data	309	No Data	7.2J	No Data	6.4J
	03/10/1993	No Data	1930	1.0U	No Data	242	No Data	30.8J	No Data	4.8J
	05/05/1993	No Data	1130	2.0U	No Data	73.7	No Data	44.0J	No Data	8.0J
	07/22/1993	No Data	1160	1.0U	No Data	86.6	No Data	26.1J	No Data	5.6J
	11/01/1993	No Data	No Data	1.0U	No Data	191	No Data	15.9J	No Data	7.0U
	05/03/1994	No Data	No Data	1.0U	No Data	152	No Data	39.8J	No Data	9.6J
	10/06/1994	No Data	No Data	1.0U	1.0U	180	182	28.9J	27.6J	2.0U
	04/20/1995	1.0U	No Data	1.0U	1.0U	121	No Data	7.8J	4.0U	7.4J
	10/04/1995	1.0U	No Data	No Data	No Data	No Data	No Data	12.7J	6.0U	4.8J
SW92-09	11/17/1992	No Data	2190	1.0U	No Data	305	No Data	8.5J	No Data	19.7J
	03/10/1993	No Data	1910	1.0U	No Data	231	No Data	27.4J	No Data	3.1J
	05/05/1993	No Data	1130	2.0U	No Data	74.0	No Data	30.1J	No Data	4.6J
	07/22/1993	No Data	1140	1.0U	No Data	88.1	No Data	24.4J	No Data	4.2J
	11/01/1993	No Data	No Data	1.0U	No Data	193	No Data	15.8J	No Data	10.7J
	05/03/1994	No Data	No Data	1.0U	No Data	150	No Data	31.8J	No Data	11.8J
	10/06/1994	No Data	No Data	1.2J	1.0U	177	171	28.4J	30.5J	2.0U
	04/20/1995	1.0U	No Data	1.0U	1.0U	116	No Data	4.3J	4.0U	37.7
	10/04/1995	1.0U	No Data	No Data	No Data	No Data	No Data	9.4J	6.0U	4.3J
SW94-01	10/04/1995	1.0U	No Data	No Data	No Data	No Data	No Data	8.8J	8.1J	4.0J
	02/16/1996	1.0U	No Data	No Data	No Data	No Data	No Data	7.1J	5.0U	9.3J
	02/16/1996	1.0U	No Data	No Data	No Data	No Data	No Data	5.6U	5.0U	5.0J
	04/09/1996	No Data	No Data	No Data	No Data	128	129	6.7U	6.0U	2.2U
	06/26/1996	No Data	No Data	No Data	No Data	160	No Data	8.4J	No Data	12.3J
Crossgradient - Off-Site										
Pehrson 1	05/06/1994	No Data	No Data	1.0U	No Data	5.3	No Data	5.0U	No Data	2.0U
	10/10/1994	No Data	No Data	1.0U	1.0U	3.0J	3.4J	6.0U	6.0U	24.9
Pehrson 2	05/06/1994	No Data	No Data	1.0U	No Data	37.3	No Data	19.7J	No Data	2.0U
	04/19/1995	1.0U	No Data	1.0U	1.0U	31.0	No Data	10.4J	4.0U	24.1
Upper North Drainage	05/06/1994	No Data	No Data	1.0U	No Data	19.5	No Data	29.8J	No Data	2.0U
	10/12/1994	No Data	No Data	1.0U	1.0U	37.7	35.0	7.5J	15.1J	5.3J

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[b]Sample was unfiltered.
[c]Sample was filtered in the field.

Surface-Water Metals Data[a]

Sample Location	Sample Date	Zn[c] (µg/L)
Downgradient - Lower Montezuma Creek		
07SW95-01	09/06/1995	11.1J
08SW95-01	09/06/1995	6.6J
09SW95-01	09/06/1995	30.3
Cabin Spring	10/17/1995	3.0U
SW92-08	11/17/1992	No Data
	03/10/1993	No Data
	05/05/1993	No Data
	07/22/1993	No Data
	11/01/1993	No Data
	05/03/1994	No Data
	10/06/1994	2.0U
	04/20/1995	4.8J
	10/04/1995	3.0U
SW92-09	11/17/1992	No Data
	03/10/1993	No Data
	05/05/1993	No Data
	07/22/1993	No Data
	11/01/1993	No Data
	05/03/1994	No Data
	10/06/1994	2.0U
	04/20/1995	3.0U
	10/04/1995	3.0U
SW94-01	10/04/1995	3.0U
	02/16/1996	2.0U
	02/16/1996	2.0U
	04/09/1996	2.0U
	06/26/1996	No Data
Crossgradient - Off-Site		
Pehrson 1	05/06/1994	No Data
	10/10/1994	2.0U
Pehrson 2	05/06/1994	No Data
	04/19/1995	15.7J
Upper North Drainage	05/06/1994	No Data
	10/12/1994	2.3J

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.
[c]Sample was filtered in the field.

Surface-Water Radiological Data[a]

Sample Location	Sample Date	Alpha[b] (pCi/L)	Alpha-U[c] (pCi/L)	Beta (pCi/L)	Pb210 (pCi/L)	Po210 (pCi/L)	Ra226 (pCi/L)	Ra228 (pCi/L)	Rn222[d] (pCi/L)	Th230 (pCi/L)
Reference - West of 191										
SW92-01	11/16/1992	60.U	60.U	40.U	No Data	0.3U	0.1	1U	36U	0.20
	11/16/1992	60.U	60.U	40.U	No Data	0.3U	0.1U	1U	36U	0.23
	03/02/1993	30U	30U	20U	2U	0.5U	0.1U	2U	80U	0.3U
	04/19/1993	38U	38U	22U	2U	0.13U	0.07U	1U	129U	0.09U
	07/19/1993	16.0UJ	16.0UJ	19.2U	2U	0.27U	0.17U	2U	37B	0.23U
	10/27/1993	11.4U	11.4U	9.8U	2U	0.08U	0.58U	2U	51U	0.06U
	05/03/1994	41U	41U	21U	2U	0.09U	0.15U	3.8U	67U	0.17U
	10/05/1994	40UJ	40UJ	35U	2U	0.5U	0.5UJ	7.1U	55U	0.3U
	04/17/1995	17.4U	17.4U	14.6U	2U	0.5U	0.5U	2.9U	38U	0.30
	10/02/1995	59U	59U	42U	2U	No Data	0.5U	No Data	37U	0.76U
	06/26/1996	13.1U	13.1U	9.2U	1.2U	No Data	0.41	No Data	29U	0.06U
	06/26/1996	13.0U	13.0U	9.2U	1.1U	No Data	0.29	No Data	30U	0.15
SW92-02	11/17/1992	40.U	40.U	30.U	No Data	0.3U	0.1	2U	61	0.3U
	03/02/1993	16.2U	16.2U	19.3U	2U	0.5U	0.2	2U	170	0.3U
	03/02/1993	17.1U	17.1U	19.3U	2U	0.5U	0.1	2U	130	0.3U
	04/20/1993	13.9U	13.9U	20U	2U	0.16U	0.08U	1U	108U	0.06U
	07/20/1993	9.9UJ	9.9UJ	6.7U	2U	0.27U	0.08U	1U	61B	0.13U
	10/27/1993	14.1U	14.1U	8.2U	2U	0.09U	0.46U	2U	123	0.07U
	05/02/1994	18.1U	18.1U	19.2U	2U	0.14	0.12U	2.6U	164	0.15U
	10/05/1994	9.4UJ	9.4UJ	7.1U	2U	0.5U	0.5U	2.9U	54U	0.58
	04/17/1995	17.2U	17.2U	14.6U	2U	0.5U	0.5U	3.0U	56	0.3U
	10/02/1995	16.4U	16.4U	10.5U	2U	No Data	0.5U	No Data	36U	0.76U
SW92-03	03/09/1993	14.1U	14.1U	10.0U	2U	0.5U	0.1	2U	80U	0.3U
	05/05/1993	13.9U	13.9U	10.0U	2U	0.16U	0.21U	4U	69U	0.14U
	07/20/1993	12.7UJ	12.7UJ	9.9U	2U	0.16U	0.45U	2U	70U	0.13U
	10/28/1993	33U	33U	32U	2U	0.08U	0.80	2U	45U	0.09U
	10/28/1993	32U	32U	20U	2U	0.12U	0.24U	2U	45U	0.08U
	05/02/1994	25U	25U	14.6U	2U	0.19	0.13	1.7U	75U	0.18U
	10/05/1994	22UJ	22UJ	17.7U	2U	0.5U	0.5U	2.3U	54U	1.2
	04/17/1995	17.6U	17.6U	14.6U	2U	0.5U	0.5U	4.0U	38U	0.3U
	10/03/1995	51U	51U	35U	2U	No Data	0.5U	No Data	33U	0.76U
	10/03/1995	51U	51U	35U	2U	No Data	0.5U	No Data	33U	0.76U
Reference - Verdure										
10SW95-01	09/06/1995	21U	21U	14.3U	2U	0.5U	0.5U	No Data	38U	1.5U

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. J- -- Estimated quantity (underestimate). U -- Not detected: value is sample detection limit. UJ -- Not detected, associated value is estimated. UJ- -- Not detected; associated value is estimated (underestimate).
[b]Toal gross alpha excluding radon which is lost during analysis.
[c]Gross alpha minus uranium activity. Result rounded as appropriate.
[d]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value.

Surface-Water Radiological Data[a]

Sample Location	Sample Date	Th232 (pCi/L)	U[b] (µg/L)	U[c] (µg/L)	U234 (pCi/L)	U235 (pCi/L)	U238 (pCi/L)
Reference - West of 191							
SW92-01	11/16/1992	0.09	3.6J	No Data	3.0	No Data	1.2
	11/16/1992	0.07U	3.5J	No Data	3.2	No Data	1.6
	03/02/1993	0.3U	2.9J	No Data	2.7	No Data	1.3
	04/19/1993	0.05U	1.0U	No Data	4.8	0.13U	2.1
	07/19/1993	0.21U	1.0U	No Data	1.7	0.26U	0.41U
	10/27/1993	0.05U	5.6	No Data	4.6	0.12U	2.1
	05/03/1994	0.17U	4.5J	No Data	4.0	0.07U	1.6
	10/05/1994	0.3U	3.5J	3.6J	2.9	0.3U	1.2
	04/17/1995	0.3U	1.9J	No Data	1.4	0.3U	0.68
	10/02/1995	No Data	No Data	No Data	3.5U	1.0U	1.6J
	06/26/1996	No Data	3.8J	No Data	2.9	0.07	1.4
	06/26/1996	No Data	3.7J	No Data	3.1	0.06	1.2
SW92-02	11/17/1992	0.3U	4.8J	No Data	3.4	No Data	2.1
	03/02/1993	0.3U	1.8J	No Data	1.6	No Data	0.76
	03/02/1993	0.3U	1.5J	No Data	1.7	No Data	0.80
	04/20/1993	0.05U	1.0U	No Data	0.77	0.09	0.36
	07/20/1993	0.13U	1.0U	No Data	1.1	0.19U	0.32U
	10/27/1993	0.06U	2.0J	No Data	1.9	0.10U	0.93
	05/02/1994	0.17U	2.4J	No Data	2.3	0.13U	1.1
	10/05/1994	0.3U	1.0U	1.1J	0.81	0.3U	0.43
	04/17/1995	0.3U	2.9J	No Data	2.2	0.3U	1.1
	10/02/1995	No Data	No Data	No Data	0.82U	1.0U	1.0U
SW92-03	03/09/1993	0.3U	2.6J	No Data	2.5	No Data	1.3
	05/05/1993	0.12U	1.0J	No Data	1.4	0.11U	0.79
	07/20/1993	0.10U	1.0U	No Data	1.6	0.17U	0.28U
	10/28/1993	0.07U	4.3J	No Data	4.0	0.13U	1.7
	10/28/1993	0.06U	4.5J	No Data	3.7	0.11U	1.9
	05/02/1994	0.17U	3.0J	No Data	2.4	0.05U	1.1
	10/05/1994	0.3U	2.4J	2.3J	2.4	0.3U	1.1
	04/17/1995	0.3U	2.1J	No Data	1.7	0.3U	0.95
	10/03/1995	No Data	No Data	No Data	3.3U	1.0U	1.3J
	10/03/1995	No Data	No Data	No Data	3.3U	1.0U	1.6J
Reference - Verdure							
10SW95-01	09/06/1995	No Data	No Data	No Data	1.0J	1.0U	1.0UJ

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[b]Sample was unfiltered.
[c]Sample was filtered in the field.

Surface-Water Radiological Data[a]

Sample Location	Sample Date	Alpha[b] (pCi/L)	Alpha-U[c] (pCi/L)	Beta (pCi/L)	Pb210 (pCi/L)	Po210 (pCi/L)	Ra226 (pCi/L)	Ra228 (pCi/L)	Rn222[d] (pCi/L)	Th230 (pCi/L)
Reference - Verdure										
11SW95-01	09/06/1995	21U	21U	14.3U	2U	0.5U	0.5U	No Data	38U	1.5U
12SW95-01	09/06/1995	21U	21U	14.3U	2U	0.5U	0.5U	No Data	38U	1.5U
14SW96-01	06/10/1996	6.8U	6.8U	6.1	1.3U	No Data	0.05U	No Data	44	0.04U
15SW96-01	06/10/1996	6.0U	6.0U	5.2	1.1U	No Data	0.06U	No Data	40U	0.18
16SW96-01	06/10/1996	6.0U	6.0U	4.5U	1.4U	No Data	0.06U	No Data	40U	0.04U
17SW96-01	06/11/1996	78.1	76.0	16.0	1.2U	No Data	0.11U	No Data	545	0.06U
Reference - Vega										
13SW95-01	09/07/1995	32U	32U	21U	2U	0.5U	0.5U	No Data	301	1.5U
	09/07/1995	33U	33U	21U	2U	0.5U	0.5U	No Data	275	1.5U
SW95-01	02/16/1996	29.1UJ	29.1UJ	24.6U	1.3	No Data	0.09U	No Data	73	0.80U
On-Site										
Carbonate Seep	11/11/1992	90	0[e]	30U	No Data	0.5U	4.4	5U	3300	0.81
	04/27/1993	1900	0[e]	1100	4.6	0.65	7.4	4U	2520	5.2U
	07/21/1993	1210J	262	320	9.3	0.25U	9.1	3U	644	8.9UJ
	11/02/1993	1780	1780[f]	1160	33.8	0.37U	6.8	4U	3660	1.3UJ
	05/04/1994	1300	0[e]	522	17.5	0.16U	4.6	5.5U	3190	1.3U
	10/11/1994	2360J	649	1290	8.4	1.2	26.3	9.6U	18800	0.3U
	10/11/1994	2130J	423	1180	9.5	1.2	19.7	5.5U	21600	0.3U
North Drainage	11/11/1992	70	0[e]	30U	No Data	0.6U	2.6	5U	436	0.54
	03/08/1993	61	0[e]	33U	2U	0.5U	1.8	4U	270	0.3U
	04/23/1993	50	6.9	22U	2U	0.83U	0.22U	1U	71U	0.07U
	04/23/1993	22U	22U	27.6	2U	2.1U	0.78	1.6U	72U	0.14U
	05/04/1994	42	2.0	47U	2U	0.15U	4.1	3.9U	63	0.05U
SW92-04	11/16/1992	80.	0[e]	40.	No Data	0.3U	0.7	2U	621	0.11U
	03/08/1993	148	0[e]	33U	2U	0.5U	0.9	3U	730	0.3U
	05/06/1993	27.3	0[e]	25.2	2U	0.27U	0.36	2U	266	0.28U
	07/21/1993	17.3UJ	17.3UJ	19.3U	2U	0.21U	0.15U	2U	83	0.41U
	11/02/1993	45U	45U	39U	2U	0.19U	0.22	2U	576	0.59U
	05/04/1994	33U	33U	32U	2U	0.13U	0.36	1.8U	253	0.07U
	10/11/1994	140J	72	48	2U	0.5U	0.96	2.3U	411	0.3U
	04/18/1995	24U	24U	14.7U	2U	0.5U	0.5U	2.8U	295	0.3U
	10/05/1995	60U	60U	30U	2U	No Data	0.5U	No Data	209	0.76U

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[b]Toal gross alpha excluding radon which is lost during analysis.
[c]Gross alpha minus uranium activity. Result rounded as appropriate.
[d]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value.
[e]Uranium activity greater than gross alpha.
[f]Uranium activity results were qualified as unusable ("R").

Surface-Water Radiological Data[a]

Sample Location	Sample Date	Th232 (pCi/L)	U[b] (μg/L)	U[c] (μg/L)	U234 (pCi/L)	U235 (pCi/L)	U238 (pCi/L)
Reference - Verdure							
11SW95-01	09/06/1995	No Data	No Data	No Data	0.85J	1.0U	1.0UJ
12SW95-01	09/06/1995	No Data	No Data	No Data	0.93J	1.0U	1.0UJ
14SW96-01	06/10/1996	No Data	2.2U	2.3U	1.3	0.07U	0.60
15SW96-01	06/10/1996	No Data	2.1U	2.2U	1.4	0.07U	0.82
16SW96-01	06/10/1996	No Data	2.1U	2.1U	1.3	0.04U	0.49
17SW96-01	06/11/1996	No Data	2.1U	2.1U	1.5	0.06U	0.64
Reference - Vega							
13SW95-01	09/07/1995	No Data	No Data	No Data	1.2J	1.0U	1.0UJ
	09/07/1995	No Data	No Data	No Data	2.0J	1.0U	1.0UJ
SW95-01	02/16/1996	No Data	No Data	No Data	2.9	1.1U	1.5
On-Site							
Carbonate Seep	11/11/1992	0.3U	2490	No Data	815	No Data	823
	04/27/1993	3.9U	2850J	No Data	1060	42.9	1060
	07/21/1993	5.3UJ	1350	No Data	476J	21.5J	451J
	11/02/1993	1.1UJ	3230	No Data	1060R	39.2R	1060R
	05/04/1994	1.1U	2210	No Data	755	30.2	786
	10/11/1994	0.3U	2720	2610	824	35.7	851
	10/11/1994	0.3U	2600	2570	831	39.5	837
North Drainage	11/11/1992	0.3U	100	No Data	39.0	No Data	32.1
	03/08/1993	0.3U	133	No Data	50.7	No Data	48.7
	04/23/1993	0.05U	52.4	No Data	22.9	0.17U	20.2
	04/23/1993	0.10U	55.4	No Data	23.5	0.25U	20.8
	05/04/1994	0.05U	56.6	No Data	19.7	0.88	19.4
SW92-04	11/16/1992	0.07U	167	No Data	58.1	No Data	57.6
	03/08/1993	0.3U	209	No Data	74.1	No Data	74.4
	05/06/1993	0.19U	40.3	No Data	32.6	7.0	20.6
	07/21/1993	0.22U	8.3	No Data	5.4	0.56U	3.8
	11/02/1993	0.47U	62.0	No Data	22.1	2.2U	21.8
	05/04/1994	0.06U	44.1	No Data	16.4	1.8	14.4
	10/11/1994	0.3U	94.9	90.1	33.7	1.5	32.8
	04/18/1995	0.3U	27.3	No Data	12.6	1.0	10.6
	10/05/1995	No Data	No Data	No Data	10.9	1.0U	9.1J

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[b]Sample was unfiltered.
[c]Sample was filtered in the field.

Surface-Water Radiological Data[a]

Sample Location	Sample Date	Alpha[b] (pCi/L)	Alpha-U[c] (pCi/L)	Beta (pCi/L)	Pb210 (pCi/L)	Po210 (pCi/L)	Ra226 (pCi/L)	Ra228 (pCi/L)	Rn222[d] (pCi/L)	Th230 (pCi/L)
On-Site										
SW92-05	11/16/1992	70.U	70.U	40.U	No Data	0.3U	0.5	1U	187	0.11U
	03/04/1993	162	152	29.9	2U	0.5U	0.7	3U	290	0.36
	05/06/1993	17.3	0[e]	10.2U	2U	0.21U	0.15U	9U	121	0.24U
	07/20/1993	18.5UJ	18.5UJ	19.4U	2U	0.11U	0.20U	3U	90	0.21U
	11/02/1993	50U	50U	40U	2U	0.33U	0.28	2U	254	0.06U
	05/05/1994	31U	31U	32U	2U	0.14U	0.16	2.2U	178	0.13U
	05/05/1994	47	9.5	32U	2U	0.18U	0.24	2.4U	149	0.12U
	10/11/1994	51U	51U	40U	2U	0.5U	0.90	3.4U	207	0.3U
	04/18/1995	29.1	4.3	18.3U	2U	0.5U	0.5U	3.3U	179	0.3U
	10/05/1995	60U	60U	30U	2U	No Data	0.5U	No Data	107	0.76U
	10/05/1995	60U	60U	30U	2U	No Data	0.5U	No Data	75	0.76U
	04/10/1996	27.8UJ-	27.8UJ-	48.6U	1.3U	No Data	0.26	No Data	137	0.12U
Slade Spring	04/18/1995	25U	25U	14.8U	2U	0.5U	0.5U	3.7U	1240	0.31
	10/05/1995	60U	60U	30U	2U	No Data	0.5U	No Data	1290	0.76U
W-2	11/11/1992	80	0[e]	30U	No Data	0.5U	0.7	2U	589	0.60
	11/11/1992	140	0[e]	30U	No Data	0.5U	0.8	2U	610	0.80
	03/08/1993	95	0[e]	33U	2U	0.5U	2.2	2U	1150	0.3U
	04/27/1993	37	0[e]	32.0	2U	0.28U	1.9	3U	1920	1.7U
	04/27/1993	66	11.5	20U	2U	0.19U	2.2	3U	1930	0.09U
	05/04/1994	1560	49.2	510	22.3	0.12U	6.6	5.2U	4620	0.33U
	10/11/1994	2480J	761	1220	11.3	1.3	30.0	10.1U	43700	0.3U
W-5	03/08/1993	60	0[e]	26.5	2U	0.98U	0.5	2U	1550	0.3U
	03/08/1993	76	0[e]	19.7U	2U	0.09U	0.5	2U	1810	0.3U
	04/26/1993	26U	26U	19.8U	2U	0.20U	0.55	4U	326	0.10U
Downgradient - Upper Montezuma Creek										
01SW95-01	09/07/1995	96	23.3	36U	2U	0.5U	0.5U	No Data	139	1.5U
	09/07/1995	68	0[e]	36U	2U	0.5U	0.5U	No Data	152	1.5U
02SW95-01	09/05/1995	131	1.6	36U	2U	0.5U	0.78	No Data	167	1.5U
03SW95-01	09/05/1995	102	0[e]	36U	2U	0.5U	0.63	No Data	109	1.5U
04SW95-01	09/05/1995	35U	35U	22U	2U	0.5U	0.5U	No Data	43U	1.5U
05SW95-01	09/05/1995	35U	35U	22U	2U	0.5U	0.5U	No Data	76	1.5U
21SW96-01	06/11/1996	167	67.1	40.1	1.2U	No Data	0.83	No Data	93	0.04U
	06/11/1996	148	43.8	44.0	1.2U	No Data	1.0	No Data	96	0.02U
22SW96-01	06/11/1996	176	66.4	37.2	1.4U	No Data	1.1	No Data	113	0.11

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[b]Toal gross alpha excluding radon which is lost during analysis.
[c]Gross alpha minus uranium activity. Result rounded as appropriate.
[d]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value.
[e]Uranium activity greater than gross alpha.

Surface-Water Radiological Data[a]

Sample Location	Sample Date	Th232 (pCi/L)	U[b] (μg/L)	U[c] (μg/L)	U234 (pCi/L)	U235 (pCi/L)	U238 (pCi/L)
On-Site							
SW92-05	11/16/1992	0.07U	163	No Data	55.3	No Data	57.2
	03/04/1993	0.3U	202	No Data	6.0	No Data	3.6
	05/06/1993	0.21U	26.5	No Data	11.8	0.30U	10.3
	07/20/1993	0.19U	12.0	No Data	5.7	0.38U	4.9
	11/02/1993	0.05U	59.1	No Data	22.6	2.2	21.3
	05/05/1994	0.15U	48.0	No Data	18.0	0.95	16.4
	05/05/1994	0.12U	49.1	No Data	19.2	0.68	17.6
	10/11/1994	0.3U	97.0	93.1	33.3	1.6	31.1
	04/18/1995	0.3U	30.2	No Data	12.5	0.58	11.7
	10/05/1995	No Data	No Data	No Data	10.5	1.0U	8.7J
	10/05/1995	No Data	No Data	No Data	10.9	1.0U	8.6J
	04/10/1996	No Data	30.7	29.7	11.9	0.69	9.9
Slade Spring	04/18/1995	0.3U	30.1	No Data	12.8	1.2	11.6
	10/05/1995	No Data	No Data	No Data	14.7	1.0U	13.3
W-2	11/11/1992	0.3U	159	No Data	59.9	No Data	59.2
	11/11/1992	0.3U	164	No Data	81.0	No Data	78.2
	03/08/1993	0.3U	146	No Data	55.4	No Data	56.0
	04/27/1993	1.4U	67.3J	No Data	33.5	2.3U	27.2
	04/27/1993	0.08U	69.7J	No Data	27.8	3.0	23.7
	05/04/1994	0.23U	1930	No Data	727	29.8	754
	10/11/1994	0.3U	2610	2660	844	35.7	839
W-5	03/08/1993	0.3U	103	No Data	39.3	No Data	38.1
	03/08/1993	0.3U	117	No Data	39.1	No Data	37.6
	04/26/1993	0.07U	36.0J	No Data	10.2	0.16U	7.9
Downgradient - Upper Montezuma Creek							
01SW95-01	09/07/1995	No Data	No Data	No Data	35.8	1.8J	35.1J
	09/07/1995	No Data	No Data	No Data	37.0	2.0J	38.6J
02SW95-01	09/05/1995	No Data	No Data	No Data	62.9	3.2J	63.3J
03SW95-01	09/05/1995	No Data	No Data	No Data	64.2	3.4J	66.6J
04SW95-01	09/05/1995	No Data	No Data	No Data	13.8	1.0U	14.2J
05SW95-01	09/05/1995	No Data	No Data	No Data	15.7	1.0U	16.6J
21SW96-01	06/11/1996	No Data	158	160	49.5	2.1	48.3
	06/11/1996	No Data	156	155	51.1	2.3	50.8
22SW96-01	06/11/1996	No Data	159	164	54.4J	2.5J	52.7J

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[b]Sample was unfiltered.
[c]Sample was filtered in the field.

Surface-Water Radiological Data[a]

Sample Location	Sample Date	Alpha[b] (pCi/L)	Alpha-U[c] (pCi/L)	Beta (pCi/L)	Pb210 (pCi/L)	Po210 (pCi/L)	Ra226 (pCi/L)	Ra228 (pCi/L)	Rn222[d] (pCi/L)	Th230 (pCi/L)
Downgradient - Upper Montezuma Creek										
23SW96-01	06/11/1996	149	42.8	39.0	1.3U	No Data	0.82	No Data	186	0.04U
SW92-06	11/10/1992	260	0[e]	50	No Data	0.6U	0.4	2U	63	0.57
	03/01/1993	190	14.5	43.4	2U	0.5U	0.6	2U	110	0.3U
	05/05/1993	42.8	0[e]	21.9	2U	0.19U	0.13U	3U	68U	0.12U
	07/22/1993	42.2J	0[e]	19.4U	2U	0.16U	0.37	2U	61	0.12U
	07/22/1993	50J	0[e]	19.4U	2U	0.17U	0.29	1U	41B	0.12U
	10/29/1993	141	36.4	55.9	2U	0.09U	0.57	3U	61	0.08U
	05/04/1994	98	15.2	37	2U	0.09U	0.30	2.4U	58U	0.25U
	05/04/1994	190	190[f]	43	2U	0.30	0.42	1.4U	58U	0.09U
	10/06/1994	155J	0[e]	104	3.6	0.5U	0.90	3.0U	282	0.3U
	04/19/1995	92	18	18.6	2U	0.5U	0.5U	3.3U	61	0.3U
	10/03/1995	71	0[e]	35U	2U	No Data	0.55	No Data	32U	0.76U
SW92-07	11/17/1992	260.	0[e]	130.	No Data	0.3U	0.8	2U	485	0.3U
	03/10/1993	189	0[e]	79.6	2U	1.1U	1.3	2U	430	0.3U
	05/05/1993	59	1.6	32.9	2U	0.30U	0.52	2U	164	0.52U
	07/21/1993	50J	0[e]	34.4	2U	0.18U	0.73	2U	59B	0.54U
	10/29/1993	157	14.4	58.0	2U	0.25U	1.2	2U	1700	0.12U
	05/03/1994	124	14.2	33	2U	0.11U	0.86	1.8U	453	0.25U
	10/05/1994	149J	0[e]	83	3.9	0.5U	1.1J	2.6U	283	0.3U
	04/19/1995	89	0[e]	28.7	2U	0.5U	0.88	4.5U	184	0.3U
	10/03/1995	35U	35U	21U	2.3U	No Data	0.5U	No Data	60	0.76U
	04/09/1996	84.8J-	0[e]	50.3U	1.3U	No Data	0.77	No Data	103	0.15U
	06/26/1996	207	101	45.5	1.1U	No Data	1.0	No Data	30U	0.05U
Sorenson	11/10/1992	290	0[e]	50	No Data	0.6U	0.6	3U	171	0.46
	03/09/1993	159	0[e]	33U	2U	0.15U	0.5	3U	150	0.3U
	05/05/1993	60	0[e]	36.2	2U	0.31U	0.40	4U	89	0.98U
	07/20/1993	55J	21.0	31.1	2U	0.30U	0.33	5U	67B	0.52UJ
	10/28/1993	210	53.6	64.1	2U	0.09U	0.63	2U	147	0.46U
	05/03/1994	145	33.4	43	2U	0.09U	0.71	2.0U	126	0.92U
	10/06/1994	252J	43.8	118	6.6	0.5U	0.83	1.4U	194	0.3U
	04/19/1995	126	30.4	26.7	2.8	0.5U	0.60	2.7U	145	0.3U
	04/19/1995	121	21.4	30.7	2U	0.5U	0.73	3.5U	160	0.3U
	10/03/1995	108	0[e]	35U	2U	No Data	0.84	No Data	136	0.76U
	04/09/1996	94.4J-	0[e]	52.9	1.4U	No Data	0.50	No Data	115	0.11U
	04/09/1996	72.8J-	0[e]	50.1U	1.4U	No Data	0.70	No Data	126	0.15U
	06/26/1996	175	24	36.5	1.2U	No Data	0.71	No Data	70	0.05U

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[b]Toal gross alpha excluding radon which is lost during analysis.
[c]Gross alpha minus uranium activity. Result rounded as appropriate.
[d]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value.
[e]Uranium activity greater than gross alpha.
[f]Uranium activity results were qualified as unusable ("R").

Surface-Water Radiological Data[a]

Sample Location	Sample Date	Th232 (pCi/L)	U[b] (µg/L)	U[c] (µg/L)	U234 (pCi/L)	U235 (pCi/L)	U238 (pCi/L)
Downgradient - Upper Montezuma Creek							
23SW96-01	06/11/1996	No Data	158	159	52.1	2.2	51.9
SW92-06	11/10/1992	0.3U	436	No Data	133	No Data	149
	03/01/1993	0.3U	239	No Data	88.1	No Data	87.4
	05/05/1993	0.10U	61.7	No Data	24.0	0.37U	23.2
	07/22/1993	0.10U	71.7	No Data	27.3J	1.2J	28.5J
	07/22/1993	0.11U	74.7	No Data	28.7	0.64U	27.9
	10/29/1993	0.05U	149	No Data	52.3	4.9	47.4
	05/04/1994	0.21U	122	No Data	41.8	0.49U	41.0
	05/04/1994	0.06U	120	No Data	45.3R	1.9R	43.4R
	10/06/1994	0.3U	231	226	81.2	3.2	76.2
	04/19/1995	0.3U	94.8	No Data	36.1	1.7	36.2
	10/03/1995	No Data	No Data	No Data	34.5	1.6J	36.8
SW92-07	11/17/1992	0.3U	411	No Data	145	No Data	144
	03/10/1993	0.3U	281	No Data	102	No Data	99.5
	05/05/1993	0.38U	79.1	No Data	28.8	0.74U	28.6
	07/21/1993	0.39U	91.0	No Data	36.6	1.5U	32.8
	10/29/1993	0.11U	192	No Data	71.0	3.5U	71.6
	05/03/1994	0.19U	159	No Data	54.2	3.2	52.4
	10/05/1994	0.3U	234	230	83.2	3.2	78.6
	04/19/1995	0.3U	122	No Data	46.8	2.1	46.5
	10/03/1995	No Data	No Data	No Data	19.0	1.0U	19.5
	04/09/1996	No Data	136	136	43.7	1.8	44.6
	06/26/1996	No Data	158	No Data	52.2	2.6	51.4
Sorenson	11/10/1992	0.3U	456	No Data	177	No Data	174
	03/09/1993	0.3U	292	No Data	107	No Data	110
	05/05/1993	0.92U	78.6	No Data	32.8	1.8U	31.5
	07/20/1993	0.33UJ	121	No Data	16.5J	0.96J	16.5J
	10/28/1993	0.36U	221	No Data	81.4	3.3U	75.0
	05/03/1994	0.58U	162	No Data	57.3	0.97U	54.3
	10/06/1994	0.3U	287	291	106	3.9	98.3
	04/19/1995	0.3U	120	No Data	47.8	2.1	45.7
	04/19/1995	0.3U	128	No Data	49.1	2.5	48.0
	10/03/1995	No Data	No Data	No Data	54.7	2.8J	60.6
	04/09/1996	No Data	141	143	46.0	2.0	46.6
	04/09/1996	No Data	141	138	46.2	1.9	45.8
	06/26/1996	No Data	218	No Data	75.0	3.1	72.9

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[b]Sample was unfiltered.
[c]Sample was filtered in the field.

Surface-Water Radiological Data[a]

Sample Location	Sample Date	Alpha[b] (pCi/L)	Alpha-U[c] (pCi/L)	Beta (pCi/L)	Pb210 (pCi/L)	Po210 (pCi/L)	Ra226 (pCi/L)	Ra228 (pCi/L)	Rn222[d] (pCi/L)	Th230 (pCi/L)
Downgradient - Upper Montezuma Creek										
W-4	11/10/1992	350	42	60	No Data	0.5U	0.8	2U	334	0.58
	03/01/1993	165	23.7	39.9	2U	0.5U	0.6	2U	120	0.3U
	05/05/1993	39.9	0[e]	33.3	2U	0.30U	0.13U	2U	67U	0.24U
	07/21/1993	35.5J	0[e]	12.0	2U	0.15U	0.11U	2U	97	0.21U
	10/28/1993	71	5.3	25.4	2U	0.07U	0.64	2U	45U	0.45UJ
	10/28/1993	90	25.5	27.5	2U	0.09U	0.64	2U	55	0.09U
	05/03/1994	82	21	20U	2U	0.15U	0.34	1.9U	65U	0.68U
	10/06/1994	75J	0[e]	79	2U	0.5U	0.75	2.0U	92	0.3U
	10/06/1994	92J	0[e]	75	2.0	0.5U	0.97	1.7U	98	0.3U
	04/18/1995	55	2.5	14.8U	2U	0.5U	0.5U	2.5U	67	0.3U
	04/18/1995	62	9.9	14.8U	2U	0.5U	0.5U	3.6U	80	0.3U
	10/03/1995	53U	53U	35U	2U	No Data	0.5U	No Data	33	0.76U
Downgradient - Off-Site										
18SW96-01	06/11/1996	60.6	17.4	21.2	1.2U	No Data	0.09U	No Data	41	0.05U
19SW96-01	06/11/1996	7.1U	7.1U	8.7U	1.3U	No Data	0.58	No Data	103	0.05U
20SW96-01	06/11/1996	119	54.3	33.3	1.2U	No Data	0.34	No Data	100	0.04U
Montezuma Creek										
	11/15/1992	40.U	40.U	30.U	No Data	0.3U	0.1U	1U	55	0.13
	03/01/1993	21U	21U	19.6U	2U	0.5U	0.2	1U	90U	0.3U
	04/22/1993	13.2U	13.2U	20U	2U	0.23U	0.04U	1U	83U	0.09U
	07/22/1993	55J	0[e]	19.5U	2	0.16U	0.32	2U	3B	0.10U
	10/28/1993	77	0[e]	44.3	2U	0.09U	0.33	2U	45U	0.11U
	05/02/1994	115	33.1	27.5	2U	0.11U	0.28	3.2U	75U	0.28U
	10/07/1994	64J	0[e]	35U	2U	0.5U	0.5U	2.5U	80	0.77
	04/19/1995	62	0[e]	34.5	2U	0.5U	0.5U	4.3U	53U	0.3U
	10/04/1995	30U	30U	20U	2U	No Data	0.5U	No Data	45U	0.76U
Downgradient - Middle Montezuma Creek										
24SW96-01	06/11/1996	144	50.5	30.3	1.2U	No Data	1.1	No Data	57	0.04U
25SW96-01	06/11/1996	156	66.9	32.9	1.2U	No Data	0.69	No Data	63	0.06U
Downgradient - Lower Montezuma Creek										
06SW95-01	09/06/1995	35U	35U	22U	2U	0.5U	0.61	No Data	39U	1.5U

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[b]Toal gross alpha excluding radon which is lost during analysis.
[c]Gross alpha minus uranium activity. Result rounded as appropriate.
[d]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value.
[e]Uranium activity greater than gross alpha.

Surface-Water Radiological Data[a]

Sample Location	Sample Date	Th232 (pCi/L)	U[b] (μg/L)	U[c] (μg/L)	U234 (pCi/L)	U235 (pCi/L)	U238 (pCi/L)
Downgradient - Upper Montezuma Creek							
W-4	11/10/1992	0.3U	508	No Data	148	No Data	160
	03/01/1993	0.3U	203	No Data	70.4	No Data	70.9
	05/05/1993	0.20U	59.5	No Data	24.4	1.8U	22.7
	07/21/1993	0.15U	47.7	No Data	48.3J	2.5J	48.2J
	10/28/1993	0.19UJ	90.8	No Data	36.6J	2.7UJ	29.1J
	10/28/1993	0.07U	90.4	No Data	32.6	1.1	30.8
	05/03/1994	0.44U	85.5	No Data	32.3	0.73U	28.7
	10/06/1994	0.3U	159	163	54.1	2.6	52.4
	10/06/1994	0.3U	155	153	54.8	2.2	50.5
	04/18/1995	0.3U	66.6	No Data	26.4	1.2	24.9
	04/18/1995	0.3U	64.6	No Data	26.3	1.2	24.6
	10/03/1995	No Data	No Data	No Data	18.0	1.0U	19.0
Downgradient - Off-Site							
18SW96-01	06/11/1996	No Data	62.2	63.2	21.7	0.91	20.6
19SW96-01	06/11/1996	No Data	49.8	49.0	16.2	0.71	15.2
20SW96-01	06/11/1996	No Data	101	104	32.0	1.6	31.1
Montezuma Creek							
	11/15/1992	0.06U	20.8	No Data	7.4	No Data	6.7
	03/01/1993	0.3U	45.2	No Data	16.8	No Data	15.3
	04/22/1993	0.07U	1.0U	No Data	2.4	0.13U	1.9
	07/22/1993	0.09U	83.1	No Data	31.2J	1.1J	31.8J
	10/28/1993	0.08U	110	No Data	39.3J	1.7J	40.0J
	05/02/1994	0.33U	116	No Data	40.7	1.5	39.7
	10/07/1994	0.64	100	103	37.6	1.9	38.1
	04/19/1995	0.3U	84.3	No Data	33.3	1.3	32.1
	10/04/1995	No Data	No Data	No Data	20.6	1.0U	20.9
Downgradient - Middle Montezuma Creek							
24SW96-01	06/11/1996	No Data	140	136	46.4	2.2	44.9
25SW96-01	06/11/1996	No Data	135	133	43.5	2.0	43.6
Downgradient - Lower Montezuma Creek							
06SW95-01	09/06/1995	No Data	No Data	No Data	14.4	1.0U	16.3J

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[b]Sample was unfiltered.
[c]Sample was filtered in the field.

Surface-Water Radiological Data[a]

Sample Location	Sample Date	Alpha[b] (pCi/L)	Alpha-U[c] (pCi/L)	Beta (pCi/L)	Pb210 (pCi/L)	Po210 (pCi/L)	Ra226 (pCi/L)	Ra228 (pCi/L)	Rn222[d] (pCi/L)	Th230 (pCi/L)
Downgradient - Lower Montezuma Creek										
07SW95-01	09/06/1995	35U	35U	22U	2U	0.5U	0.61	No Data	39U	1.5U
08SW95-01	09/06/1995	36	3.4	22.1	2U	0.5U	0.50	No Data	39U	1.5U
09SW95-01	09/06/1995	35U	35U	22U	2U	0.5U	0.53	No Data	39U	1.5U
Cabin Spring	10/17/1995	20U	20U	13U	1.4U	No Data	1.3	No Data	26U	0.76U
SW92-08	11/17/1992	120.	0[e]	80.	No Data	0.3U	0.5	2U	165	0.3U
	03/10/1993	162	0[e]	62.3	2U	1.0U	0.7	3U	150	0.3U
	05/05/1993	57	1.4	29.4	2U	0.27U	0.57	2U	67U	0.64U
	07/22/1993	64J	7.2	17.6	2U	0.55U	0.56	1U	37B	0.33U
	11/01/1993	141	4.6	75	2.7	0.20U	1.2U	2U	81	0.30J
	05/03/1994	264	264[f]	70	2U	0.12U	1.0	3.3U	128	0.15U
	10/06/1994	129J	0[e]	70.1	2U	0.5U	1.3	3.2U	79	0.3U
	04/20/1995	96	3.3	31.8	2U	0.5U	0.63	4.2U	88	0.3U
	10/04/1995	40U	40U	20U	2U	No Data	0.5U	No Data	55U	0.76U
SW92-09	11/17/1992	200.	0[e]	100.	No Data	0.3U	0.2	2U	159	0.3U
	03/10/1993	141	0[e]	51.2	2U	0.94U	0.8	2U	210	0.30
	05/05/1993	27.7	0[e]	22.5	2U	0.48U	1.3	2U	129	0.53U
	07/22/1993	65J	0[e]	12.4	2U	0.58UJ	0.64	1U	53B	0.42U
	11/01/1993	164	19.2	60	2.6	0.21U	0.96	2U	132	0.23U
	05/03/1994	103	0[e]	40	2U	0.10U	0.94	1.9U	185	0.20U
	10/06/1994	159J	34.3	76.5	2U	0.5U	0.56	1.4U	50U	0.3U
	04/20/1995	100	4.6	33.0	2.1	0.5U	0.91	3.6U	134	0.3U
	10/04/1995	40U	40U	20U	2U	No Data	0.55	No Data	55U	0.76U
SW94-01	10/04/1995	40U	40U	20U	2U	No Data	0.5U	No Data	55U	0.76U
	02/16/1996	130J	25	49.1U	0.48	No Data	0.71	No Data	128	0.80U
	02/16/1996	122J	19	49.0U	1.4	No Data	0.63	No Data	147	0.80U
	04/09/1996	136J-	48.9	41.7U	1.4U	No Data	0.77	No Data	126	0.15U
	06/26/1996	153	43.2	33.5	1.2U	No Data	0.90	No Data	30U	0.05
Crossgradient - Off-Site										
Pehrson 1	05/06/1994	23U	23U	13.6U	2U	0.15U	0.51	1.7U	384	0.12U
	10/10/1994	35U	35U	20U	2U	0.5U	0.5U	3.1U	87U	0.3U
Pehrson 2	05/06/1994	55U	55U	64U	2U	0.14UJ	2.4	1.8U	337	0.07U
	04/19/1995	27U	27U	13.8U	10.9	0.5U	0.94	4.0U	713	0.3U
Upper North Drainage	05/06/1994	61U	61U	64U	2U	0.14U	0.45U	2.7U	46U	0.13U
	10/12/1994	69U	69U	41U	2U	0.5U	3.1	6.6U	66U	0.3U

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[b]Toal gross alpha excluding radon which is lost during analysis.
[c]Gross alpha minus uranium activity. Result rounded as appropriate.
[d]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value.
[e]Uranium activity greater than gross alpha.
[f]Uranium activity results were qualified as unusable ("R").

Surface-Water Radiological Data[a]

Sample Location	Sample Date	Th232 (pCi/L)	U[b] (μg/L)	U[c] (μg/L)	U234 (pCi/L)	U235 (pCi/L)	U238 (pCi/L)
Downgradient - Lower Montezuma Creek							
07SW95-01	09/06/1995	No Data	No Data	No Data	15.4	1.0U	16.7J
08SW95-01	09/06/1995	No Data	No Data	No Data	15.9	1.0U	16.7J
09SW95-01	09/06/1995	No Data	No Data	No Data	15.2	1.0U	16.6J
Cabin Spring	10/17/1995	No Data	No Data	No Data	0.6U	1.0U	1.0U
SW92-08	11/17/1992	0.3U	309	No Data	118	No Data	120
	03/10/1993	0.3U	242	No Data	86.8	No Data	87.3
	05/05/1993	0.41U	73.7	No Data	28.5	0.80U	27.1
	07/22/1993	0.30U	86.6	No Data	26.9	1.8	28.1
	11/01/1993	0.05U	191	No Data	69.2J	0.04UJ	67.2J
	05/03/1994	0.12U	152	No Data	53.0R	1.7R	51.4R
	10/06/1994	0.3U	180	182	65.6	2.3	66.8
	04/20/1995	0.3U	121	No Data	45.6	2.2	44.9
	10/04/1995	No Data	No Data	No Data	19.9	1.0U	22.2
SW92-09	11/17/1992	0.3U	305	No Data	111	No Data	109
	03/10/1993	0.3U	231	No Data	84.7	No Data	82.0
	05/05/1993	0.47U	74.0	No Data	29.3	0.95U	27.2
	07/22/1993	0.35U	88.1	No Data	33.9	1.2U	32.9
	11/01/1993	0.21U	193	No Data	73.7	1.2U	71.1
	05/03/1994	0.24U	150	No Data	51.3	2.6	52.1
	10/06/1994	0.3U	177	171	62.3	3.2	59.2
	04/20/1995	0.3U	116	No Data	47.2	2.0	46.2
	10/04/1995	No Data	No Data	No Data	19.9	1.0U	20.7
SW94-01	10/04/1995	No Data	No Data	No Data	21.4	1.0U	21.9
	02/16/1996	No Data	No Data	No Data	50.9	2.2	51.9
	02/16/1996	No Data	No Data	No Data	49.1	2.1	51.8
	04/09/1996	No Data	128	129	42.7	2.5	41.9
	06/26/1996	No Data	160	No Data	53.4	2.3	54.1
Crossgradient - Off-Site							
Pehrson 1	05/06/1994	0.08U	5.3	No Data	6.4	0.27U	4.2
	10/10/1994	0.3U	3.0J	3.4J	2.0	0.3U	1.2
Pehrsom 2	05/06/1994	0.04U	37.3	No Data	14.8	0.22U	13.0
	04/19/1995	0.3U	31.0	No Data	13.3	0.56	11.7
Upper North Drainage	05/06/1994	0.10U	19.5	No Data	4.7	0.12U	4.5
	10/12/1994	0.3U	37.7	35.0	24.1	1.6	23.3

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[b]Sample was unfiltered.
[c]Sample was filtered in the field.

Appendix C–2

Alluvial Aquifer Data

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Alluvial Aquifer Field Measurements Data

Sample Location	Sample Date	Alkalinity (ppm)	Conductivity (μmhos/cm)	DO (mg/L)	Eh (mV)	pH	Temp (deg C)	Turbidity (NTU)
Reference - West of 191								
92-01	11/12/1992	265	1336	4.96	210	6.48	9.9	7.31
	03/08/1993	265	2150	5.60	233	6.64	8.9	23.9
	04/22/1993	308	2240	5.40	241	6.68	8.5	1.18
	07/20/1993	90	1883	4.65	139	7.05	8.8	2.51
	10/26/1993	288	2570	3.51	181	6.54	9.7	9.84
	05/02/1994	237	2250	5.40	154	6.37	8.3	2.14
	10/04/1994	303	2380	5.29	198	6.52	9.7	4.84
	04/19/1995	270	2220	4.65	118	6.89	8.1	3.84
	10/03/1995	294	2740	3.91	131	6.53	9.4	3.26
92-03	11/12/1992	267	594	No Data	No Data	6.84	10.7	8.37
	03/09/1993	308	887	No Data	No Data	7.00	7.2	>1000
	04/22/1993	211	590	No Data	No Data	7.21	6.5	590
	07/26/1993	701	514	No Data	No Data	6.85	12.5	235
	10/27/1993	228	675	2.45	No Data	6.89	12.4	22.8
	04/26/1994	171	747	3.60	119	7.18	6.9	652
	10/04/1994	256	876	2.60	196	7.23	13.6	3.72
	04/19/1995	225	731	5.35	158	7.32	6.5	40.5
	10/04/1995	184	778	4.40	147	7.15	9.5	22.40
92-05	11/12/1992	No Data	976	No Data	No Data	6.59	9.3	105
	03/09/1993	290	833	No Data	No Data	6.80	4.8	651
	04/22/1993	372	1295	No Data	No Data	6.59	7.9	233
	07/22/1993	178	1207	No Data	No Data	6.78	8.9	34.4
	10/26/1993	276	1868	6.48	198	6.52	9.5	5.65
	05/02/1994	214	1682	7.58	69	6.92	7.4	3.52
	10/05/1994	324	1523	5.46	214	6.54	9.3	3.10
	04/18/1995	225	1432	5.98	140	6.87	6.6	3.08
	10/03/1995	287	1445	6.75	119	6.67	14.6	2.63
On-Site								
31SW91-03	11/03/1993	431	2970	1.06	192	6.55	10.7	4.12
	05/05/1994	436	2880	1.01	170	6.79	11.0	4.44
	10/13/1994	434	No Data	1.61	148	6.57	11.1	2.10
	04/26/1995	470	3880	1.56	179	6.81	10.9	1.70
	10/12/1995	476	3420	0.75	135	6.81	11.3	0.86
31SW91-14	11/17/1992	452	2120	3.3	174	6.65	16.6	16.6

Alluvial Aquifer Field Measurements Data

Sample Location	Sample Date	Alkalinity (ppm)	Conductivity (μmhos/cm)	DO (mg/L)	Eh (mV)	pH	Temp (deg C)	Turbidity (NTU)
On-Site								
31SW91-14	03/10/1993	462	3270	1.10	376	6.74	10.3	4.77
	04/29/1993	494	3590	2.31	182	6.81	10.6	3.88
	07/26/1993	440	3280	0.66	187	6.38	11.6	2.14
	11/03/1993	404	3500	0.80	143	6.49	10.5	0.71
	05/04/1994	493	3650	3.09	221	6.76	10.9	0.79
	10/13/1994	455	3800	1.80	201	6.00	10.9	2.93
	04/19/1995	508	4600	1.29	165	6.80	10.4	0.85
	10/12/1995	532	4070	1.91	141	6.84	10.9	2.92
	10/12/1995	No Data	No Data	No Data	No Data	No Data	No Data	No Data
31SW91-23	11/19/1992	No Data	3330	No Data	No Data	6.79	10.4	5.11
	03/03/1993	470	5060	No Data	No Data	6.79	7.9	30.8
	04/27/1993	452	4970	No Data	No Data	6.85	7.5	313
	07/27/1993	1448	495	No Data	No Data	6.78	11.3	134
	11/03/1993	489	5050	1.83	224	6.58	11.9	1.07
	05/05/1994	432	4400	4.95	210	7.14	9.6	2.41
	10/13/1994	365	4580	1.93	164	6.35	13.7	0.62
	04/27/1995	530	6370	1.93	140	7.14	7.7	0.95
	10/12/1995	509	4520	2.33	114	6.95	12.6	1.79
31SW91-35	04/11/1996	116	12170	2.71	206	8.77	8.0	16.9
31SW91-50	04/11/1996	>3100	2120	1.20	-45	7.32	7.9	3.80
31SW91-55	04/11/1996	3810	1674	0.44	054	7.13	7.7	0.99
36SE91-58	04/11/1996	3071	1785	4.45	211	6.80	7.4	4.35
36SE93-201-2	11/17/1993	780	6880	No Data	No Data	8.51	11.8	>1000
	05/05/1994	>1350	7960	No Data	No Data	8.44	9.3	>1000
	10/12/1994	750	7900	No Data	No Data	8.32	13.4	124
	04/26/1995	704	6700	6.35	83	9.25	9.4	31.0
	10/12/1995	770	7310	0.15	-155	7.87	15.1	53.3
	04/11/1996	740	7070	0.54	-186	8.96	9.2	16.4
82-30B	11/18/1992	415	1460	3.0	118	7.00	10.2	0.89
	03/04/1993	443	2220	2.10	215	6.80	10.2	0.48
	03/04/1993	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/21/1993	526	2530	2.01	193	6.72	9.2	1.40
	07/27/1993	415	2178	No Data	No Data	6.91	8.9	0.74
	11/03/1993	400	2090	0.49	148	6.76	10.0	0.94
	05/05/1994	396	2080	2.63	129	7.04	9.4	0.45
	10/13/1994	384	2120	1.50	129	6.47	10.4	0.68

Alluvial Aquifer Field Measurements Data

Sample Location	Sample Date	Alkalinity (ppm)	Conductivity (μmhos/cm)	DO (mg/L)	Eh (mV)	pH	Temp (deg C)	Turbidity (NTU)
On-Site								
82-30B	04/26/1995	445	2340	0.90	130	6.96	9.0	1.05
	10/10/1995	441	2190	0.25	-2	7.04	9.7	0.72
	04/11/1996	430	2160	0.26	104	6.89	9.5	0.35
	04/11/1996	No Data	No Data	No Data	No Data	No Data	No Data	No Data
82-31B-E	11/04/1993	345	3390	1.02	151	6.30	11.1	0.81
	05/09/1994	344	2800	3.69	216	6.83	9.3	0.59
	10/12/1994	324	3260	3.43	66	6.31	14.1	1.01
	04/18/1995	336	3120	3.94	135	6.68	7.80	0.24
	10/11/1995	394	3220	3.68	-38	6.66	13.8	1.10
82-31B-W	11/11/1992	295	1136	2.79	227	6.48	10.0	4.42
	03/02/1993	327	2420	2.81	236	6.47	5.3	18.5
	03/02/1993	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/29/1993	353	2760	1.68	120	6.43	9.1	53.3
	07/27/1993	359	2440	1.21	68	6.27	17.9	15.4
82-36A	11/17/1992	533	2910	No Data	No Data	6.65	10.6	279
	03/10/1993	573	5050	No Data	No Data	6.90	9.6	473
	04/27/1993	588	5540	No Data	No Data	6.91	11.3	25.1
	07/27/1993	560	504	No Data	No Data	6.85	12.1	>1000
82-40A	11/12/1992	478	1900	5.42	-11.0	7.24	10.8	4.40
	03/04/1993	No Data	2030	2.0	-44	6.92	No Data	0.45
	04/29/1993	395	2102	3.82	-57	6.65	11.0	4.08
	07/28/1993	431	2870	5.51	-54	6.50	10.5	3.63
	07/28/1993	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	11/03/1993	540	3950	0.71	-49	6.67	10.7	4.1
	05/04/1994	448	3130	1.82	-52	6.99	10.3	2.15
	10/13/1994	535	3840	2.24	-24	6.80	10.8	0.98
	10/13/1994	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/26/1995	425	2600	1.72	-55	6.90	10.3	3.23
	04/26/1995	470	3880	1.56	179	6.81	10.9	1.70
	10/11/1995	529	3410	2.82	-74	6.73	10.8	2.20
82-42	11/19/1992	307	1047	1.1	47	6.75	9.5	33.6
	03/03/1993	320	1332	1.2	58.7	6.51	10.0	13.7
	04/28/1993	317	1437	6.71	74	6.43	10.5	10.0
	04/28/1993	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	07/28/1993	295	1444	2.33	132	7.25	10.2	4.79
	11/03/1993	260	1257	2.85	187	6.44	9.6	4.72

Alluvial Aquifer Field Measurements Data

Sample Location	Sample Date	Alkalinity (ppm)	Conductivity (μmhos/cm)	DO (mg/L)	Eh (mV)	pH	Temp (deg C)	Turbidity (NTU)
On-Site								
82-42	05/09/1994	300	1642	2.32	132	6.73	9.9	2.88
	05/09/1994	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/13/1994	249	1671	2.02	166	6.38	9.8	1.22
	04/18/1995	340	1846	2.06	126	6.52	10.0	1.78
	10/11/1995	334	1391	1.71	132	7.08	9.9	1.17
Downgradient								
82-07	11/04/1992	379	1581	1.5	117.7	6.83	11.4	5.4
	03/16/1993	327	2040	1.65	233	6.55	7.8	2.98
	04/28/1993	408	2650	1.14	227	6.58	7.8	2.87
	07/29/1993	417	2760	1.03	192	6.56	11.1	3.16
	11/02/1993	372	2740	1.75	184	6.47	12.0	0.68
	05/10/1994	373	2520	1.06	169	6.77	8.4	1.31
	10/10/1994	377	2510	1.75	216	6.08	12.9	1.00
	04/25/1995	395	2740	1.24	170	6.58	8.0	0.82
	10/09/1995	356	1610	1.91	159	6.88	13.3	1.03
88-85	11/05/1992	403	1418	No Data	No Data	6.74	11.0	>1000
	03/01/1993[a]	395	2249	2.04	159.7	6.58	7.7	6.22
	04/27/1993	418	3420	0.55	200	6.67	9.7	0.59
	07/21/1993	339	2350	1.38	119	6.52	12.4	0.37
	07/21/1993	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	11/02/1993	338	2550	1.82	162	6.02	10.5	2.24
	05/03/1994	400	2570	1.50	161	6.78	9.7	3.56
	10/06/1994	400	2490	1.09	0.94	6.28	12.4	3.94
	04/18/1995	410	2660	1.08	128	6.93	9.0	2.30
	10/06/1995	483	2510	2.09	127	6.72	12.5	3.63
	10/06/1995	No Data	No Data	No Data	No Data	No Data	No Data	No Data
92-07	11/05/1992	380	1507	1.88	231	6.73	11.4	0.39
	03/16/1993	402	2380	2.10	240	6.63	7.6	2.07
	04/28/1993	430	2570	0.81	235	6.67	8.4	1.13
	07/29/1993	299	1073	2.40	173	6.39	14.0	0.38
	11/02/1993	393	2351	3.99	212	6.68	10.5	0.19
	05/10/1994	399	2440	2.54	144	6.83	9.4	0.55
	10/10/1994	415	2330	3.64	152	6.26	14.9	0.39
	04/25/1995	434	2740	2.78	221	6.44	8.3	0.96

[a]Evaluation and investigation of anomalous data points has determined that the 3/31/93 samples from wells 88-85 and 83-70 were inadvertently switched in the laboratory. Results have been corrected; however, the corrected results were not used in any statistical calculations.

Alluvial Aquifer Field Measurements Data

Sample Location	Sample Date	Alkalinity (ppm)	Conductivity (μmhos/cm)	DO (mg/L)	Eh (mV)	pH	Temp (deg C)	Turbidity (NTU)
Downgradient								
92-07	10/09/1995	460	2640	2.86	131	6.76	14.0	0.67
92-08	11/05/1992	381	1565	0.80	208	6.82	11.8	4.68
	03/11/1993	274	2110	0.64	267	6.74	7.5	1.11
	04/28/1993	412	2080	0.80	215	6.75	7.5	0.41
	07/29/1993	338	2190	0.58	190	6.26	9.3	0.96
	11/04/1993	348	2010	4.68	218	6.47	11.1	0.29
	05/09/1994	350	2240	1.85	169	6.88	6.6	1.08
	10/07/1994	304	1965	.53	0.80	6.65	11.1	0.33
	04/25/1995	386	2170	1.67	136	6.86	7.7	0.10
	04/25/1995	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/10/1995	395	2390	0.47	85	6.61	11.0	0.51
92-09	11/10/1992	408	3010	0.56	36.5	7.05	11.3	0.41
	03/15/1993	415	2660	0.85	88	6.81	8.8	1.43
	04/22/1993	395	2130	0.26	-1	6.88	7.8	1.71
	07/22/1993	422	2190	0.41	16	6.41	11.0	0.80
	10/28/1993	427	2650	1.58	6	6.82	12.2	1.19
	10/28/1993	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	05/10/1994	344	2590	1.43	88	7.06	7.9	0.53
	10/05/1994	367	2480	1.11	20	6.60	12.2	1.01
	10/05/1994	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/24/1995	330	2360	0.55	24	7.02	8.1	0.94
	04/24/1995	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/04/1995	387	2300	0.75	-33	6.89	12.8	0.67
	04/09/1996	344	2390	0.83	19	6.92	8.8	0.45
92-11	11/10/1992	382	1548	0.85	230	6.86	11.6	3.59
	11/10/1992	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	03/12/1993	425	No Data	0.41	250	6.54	8.8	3.58
	04/26/1993	414	2870	0.63	226	6.69	9.6	0.57
	04/26/1993	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	11/04/1993	400	2570	0.69	197	6.44	11.5	2.69
	05/03/1994	386	2540	0.57	151	6.79	9.4	4.83
	05/03/1994	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/06/1994	410	2550	1.40	208	6.41	13.0	1.79
	04/20/1995	422	3120	0.46	149	6.69	9.2	0.87
	10/06/1995	412	2980	0.56	151	6.84	12.1	1.08
	04/10/1996	453	2740	0.60	188	6.82	9.6	1.26

Alluvial Aquifer Field Measurements Data

Sample Location	Sample Date	Alkalinity (ppm)	Conductivity (μmhos/cm)	DO (mg/L)	Eh (mV)	pH	Temp (deg C)	Turbidity (NTU)
Downgradient								
95-01	02/13/1996	206	614	0.18	225	7.18	10.0	1.76
	04/08/1996	187	613	2.99	-32	7.18	11.5	3.91
	07/23/1996	197	485	0.68	-065	7.01	16.4	3.60
	07/23/1996	No Data	No Data	No Data	No Data	No Data	No Data	No Data
95-03	02/13/1996	237	1679	0.17	216	7.17	10.4	1.18
	02/13/1996	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/09/1996	252	1690	1.43	-80	6.98	10.1	4.53
	07/24/1996	251	1613	0.11	-75	6.97	14.6	2.86
P92-02	10/10/1995	440	3070	0.85	-40	6.90	12.6	36.2
	02/14/1996	434	3250	0.26	223	7.04	11.8	3.48
	07/25/1996	396	3010	0.31	45	6.76	13.7	2.18
P92-04	10/09/1995	234	2440	5.05	224	6.7	10.6	4.48
	02/14/1996	336	2770	No Data	231	7.30	10.6	4.67
	04/10/1996	308	2970	4.76	153	6.78	21.4	3.23
	07/26/1996	401	2150	6.37	103	6.67	14.5	1.65
P92-09	10/12/1995	577	3710	No Data	128	6.96	14.9	10.9
	07/25/1996	447	4060	No Data	144	6.96	19.8	20.1

Alluvial Aquifer Common Ions Data[a]

Sample Location	Sample Date	Ca (mg/L)	Cl[b] (mg/L)	F[b] (µg/L)	Hardness (mg/L)	K (mg/L)	Mg (mg/L)	Na (mg/L)	NH_4[b] (µg/L)	NO_2[b] (µg/L)
Reference - West of 191										
92-01	11/12/1992	379	9.93	119B	1180	2.3J	56.5	44.8	20U	6.0U
	03/08/1993	404R	10.8	122B	1260	2.4R	60.8R	48.4R	36.0	2.0U
	04/22/1993	408	17.1	151B	1270	1.82	60.6	59	51.0	5.3B
	07/20/1993	367	13.1	149B	1150	2.15J	56.6	47.8	24.0	8.0U
	10/26/1993	517	14.4	183B	1610	2.13J	76.6	64.8J	30.2	No Data
	05/02/1994	413	11.9	62.3BN	1310	2.1J	66.5	53.1	58.8	No Data
	10/04/1994	456	7.99	77.5B	1440	1.55J	73	54.7	40.3	No Data
	04/19/1995	386	9.25	34.4B	1230	2.53J	64.8	47.5	25.5	No Data
	10/03/1995	509	13.6	242	1650	3.37J	92	75.2	13.8B	No Data
92-03	11/12/1992	137	10.7	137B	415	2.84J	17.6	34.2	80	21.2B
	03/09/1993	155R	9.82	130B	460	2.51R	17.7R	36.1R	48.0	5.7B
	04/22/1993	217R	6.84	157B	602	2.57R	14.5R	25R	45.0	12.1B
	07/26/1993	92R	2.82	199B	274	1.38R	10.8R	23.1R	36.0	9.0B
	10/27/1993	98.6R	5.76	115B	301	1.41R	13.2R	25.8R	35.6	No Data
	04/26/1994	112R	8.8	128BN	340	1.2R	14.7R	24.8R	30.0	No Data
	10/04/1994	138	13	113B	422	2.1J	18.7	29.2	145	No Data
	04/19/1995	104R	9.36	85.5B	316	1.05R	13.6R	23.5R	39.3	No Data
	10/04/1995	124R	9	171B	381	1.57R	17.3R	26.7R	19.0B	No Data
92-05	11/12/1992	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	03/09/1993	126R	9.06	154B	400	2.88R	20.7R	31.9R	60.0	11.7B
	04/22/1993	222R	10.8	86.6B	692	3.95R	33.5R	37.6R	21.0	3.9B
	07/22/1993	224R	7.08	101B	691	2.1R	31.9R	28.9R	72.0	8.0U
	10/26/1993	346	10.7	114B	1080	2.07J	53.1	43.2J	49.0	No Data
	05/02/1994	291	9.5	82.7BN	915	1.9J	45.8	36.0	35.7	No Data
	10/05/1994	258	11.4	53.6B	813	3.83J	41	38.1	87.0	No Data
	04/18/1995	225	10.7	47.7B	707	1.67J	35.2	31.6	25.5	No Data
	10/03/1995	248	11.2	140B	783	2.8J	39.8	38.8	21.6	No Data
On-Site										
31SW91-03	11/03/1993	226	95	583	816	38.5	61	362	12100	No Data
	05/05/1994	215	89.7	565N	777	36.6	58.4	360	10100	No Data
	10/13/1994	208	99.3	553	766	37	60	338	9400	No Data
	04/26/1995	316	121	342	1130	40.6	82.6	427	10900	No Data
	10/12/1995	264	130	730	948	41.9	70.2	463	9350	No Data
31SW91-14	11/17/1992	166R	94.6	688	639	45.2R	54.5R	401R	16200	19.3B

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value.

Alluvial Aquifer Common Ions Data[a]

Sample Location	Sample Date	NO_3 (μg/L)	NO_3+NO_2 (μg/L)	NO_3+NO_2-N (μg/L)	SO_4 (mg/L)	TDS (mg/L)
Reference - West of 191						
92-01	11/12/1992	31.8B	No Data	No Data	940	1780
	03/08/1993	254	No Data	No Data	991	1830
	04/22/1993	3280	No Data	No Data	1020	1948
	07/20/1993	20900	No Data	No Data	854	1624
	10/26/1993	No Data	No Data	4330	1200	2264
	05/02/1994	No Data	No Data	730	1060	1940
	10/04/1994	No Data	No Data	155B	1170	2280
	04/19/1995	No Data	No Data	128B	1010	1900
	10/03/1995	No Data	No Data	3890	1430	2570
92-03	11/12/1992	364B	No Data	No Data	186	600
	03/09/1993	191B	No Data	No Data	164	555
	04/22/1993	1260	No Data	No Data	106	412B
	07/26/1993	365	No Data	No Data	70.8	354B
	10/27/1993	No Data	No Data	41.8B	102	436B
	04/26/1994	No Data	No Data	61.0B	136	476B
	10/04/1994	No Data	No Data	191B	221	632
	04/19/1995	No Data	No Data	35.6B	140	482B
	10/04/1995	No Data	No Data	187B	170	508
92-05	11/12/1992	No Data	No Data	No Data	No Data	No Data
	03/09/1993	1750	No Data	No Data	187	548
	04/22/1993	8040	No Data	No Data	418	990
	07/22/1993	5000	No Data	No Data	452	986
	10/26/1993	No Data	No Data	1830	742	1534
	05/02/1994	No Data	No Data	601	695	1350
	10/05/1994	No Data	No Data	2140	555	1160
	04/18/1995	No Data	No Data	300B	516	1070
	10/03/1995	No Data	No Data	469B	539	1130
On-Site						
31SW91-03	11/03/1993	No Data	No Data	732	1000	2182
	05/05/1994	No Data	No Data	832	948	2090
	10/13/1994	No Data	No Data	664	1010	2090
	04/26/1995	No Data	No Data	1190	1490	2920
	10/12/1995	No Data	No Data	514B	1330	2680
31SW91-14	11/17/1992	7080	No Data	No Data	1030	2140

[a]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value.

Alluvial Aquifer Common Ions Data[a]

Sample Location	Sample Date	Ca (mg/L)	Cl[b] (mg/L)	F[b] (µg/L)	Hardness (mg/L)	K (mg/L)	Mg (mg/L)	Na (mg/L)	NH_4[b] (µg/L)	NO_2[b] (µg/L)
On-Site										
31SW91-14	03/10/1993	175	97	744	678	47.6	58.5	437J	20500	126B
	04/29/1993	200	117	671	772	47.7	66.2	513	26700	16.7B
	07/26/1993	224	108	838	843	50.8	69	537	20000	35.5B
	11/03/1993	207	113	725	781	50.8	64.2	511	20300	No Data
	05/04/1994	220	123	701N	832	50.4	68.6	527	18600	No Data
	10/13/1994	210	144	791	809	50.2	69	546	20400	No Data
	04/19/1995	273	159	433	1040	54.2	88	686	28200	No Data
	10/12/1995	236	151	908	901	51.9	75.8	597	23000	No Data
	10/12/1995	236	150	863	903	52.2	76.1	602	23200	No Data
31SW91-23	11/19/1992	372	32.6	722	1480	5.8	135	660	7662	165B
	03/03/1993	351R	35	524	1420	5.29R	131R	629R	7180	379B
	04/27/1993	432R	23.3	485	1740	4.87R	160R	704R	5180	1470
	07/27/1993	437R	18.6	639	1720	5.13R	153R	689R	4590	110B
	11/03/1993	440	28.3	560	1720	7.63	150	649	7120	205B
	05/05/1994	363	33.0	675N	1450	5.7	133	637	8520	135B
	10/13/1994	385	38.5	539	1530	5.23	137	639	9780	1970
	04/27/1995	425	50.4	325	1930	3.73J	210	930	2080	158B
	10/12/1995	384	40.3	840	1530	6.29	139	590	10000	123B
31SW91-35	04/11/1996	383R	31.9	495	1190	29.8R	57.4R	2590R	167000	No Data
31SW91-50	04/11/1996	248	80.5	2380	803	25.2	44.5	180	4980	No Data
31SW91-55	04/11/1996	267	45	162B	850	4.32J	44.4	62.2	22.2	No Data
36SE91-58	04/11/1996	322	13.3	109B	1010	3.76J	49.2	43.2	14.4B	No Data
36SE93-201-2	11/17/1993	19.5R	687	3750	70.8	116R	5.36R	1630R	No Data	No Data
	05/05/1994	86.9R	602	3520N	262	78.9R	11.0R	1520R	1220	No Data
	10/12/1994	104R	747	5660	318	49.3R	14.1R	1720R	987	No Data
	04/26/1995	23.6R	566	3650	88.2	105R	7.11R	1430R	730	No Data
	10/12/1995	89.4R	676	5210	285	35.7R	15R	1570R	135	No Data
	04/11/1996	48.7R	600	4180	161	42.4R	9.52R	1550R	765	No Data
					60.8					
82-30B	11/18/1992	169	55	657	568	40.1	35.5	237	2980	14.5B
	03/04/1993	195	44.9	667	657	41.4	41.3	231J	2950	2.0U
	03/04/1993	191	45	652	644	41.7	40.6	226J	3040	2.0U
	04/21/1993	319	77.8	492	1060	50.7	64.8	302	4070	6.7B
	07/27/1993	177	62	614	590	35.8	36	250	2690	8.0U
	11/03/1993	174	68.5	652	579	37.3	35	232	2880	No Data
	05/05/1994	182	60.6	559N	607	36.6	37.0	221	2460	No Data

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected: value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value.

Alluvial Aquifer Common Ions Data[a]

Sample Location	Sample Date	NO_3 (µg/L)	NO_3+NO_2 (µg/L)	NO_3+NO_2-N (µg/L)	SO_4 (mg/L)	TDS (mg/L)
On-Site						
31SW91-14	03/10/1993	3910	No Data	No Data	1130	2340
	04/29/1993	1580	No Data	No Data	1330	2460
	07/26/1993	3700	No Data	No Data	1330	2712
	11/03/1993	No Data	No Data	848	1240	2542
	05/04/1994	No Data	No Data	1100	1330	2710
	10/13/1994	No Data	No Data	1020	1450	2810
	04/19/1995	No Data	No Data	818B	1840	3570
	10/12/1995	No Data	No Data	1090	1600	3130
	10/12/1995	No Data	No Data	1100	1590	3150
31SW91-23	11/19/1992	254000	No Data	No Data	2090	3960
	03/03/1993	258000	No Data	No Data	2060	3930
	04/27/1993	266000	No Data	No Data	2380	4260
	07/27/1993	198000	No Data	No Data	2350	4424
	11/03/1993	183000	No Data	No Data	2330	4240
	05/05/1994	No Data	No Data	43200	2020	3810
	10/13/1994	No Data	No Data	42600	2120	3780
	04/27/1995	No Data	No Data	38800	3080	5510
	10/12/1995	No Data	No Data	36900	2130	3970
31SW91-35	04/11/1996	No Data	No Data	263000	5820	10100
31SW91-50	04/11/1996	No Data	No Data	7.0U	674	1590
31SW91-55	04/11/1996	No Data	No Data	652	571	1280
36SE91-58	04/11/1996	No Data	No Data	470B	762	1480
36SE93-201-2	11/17/1993	No Data	4.0U	No Data	1870	5616
	05/05/1994	No Data	No Data	143	1720	5170
	10/12/1994	No Data	No Data	76.6B	2020	5600
	04/26/1995	No Data	No Data	38.4B	1740	5030
	10/12/1995	No Data	No Data	17.5B	2000	5080
	04/11/1996	No Data	No Data	7.0U	1730	4830
82-30B	11/18/1992	41.3B	No Data	No Data	613	1520
	03/04/1993	40.6B	No Data	No Data	693	1590
	03/04/1993	44.7B	No Data	No Data	689	1570
	04/21/1993	305	No Data	No Data	1060	2308
	07/27/1993	47.9B	No Data	No Data	586	1522
	11/03/1993	No Data	No Data	7.0B	555	1464
	05/05/1994	No Data	No Data	18.4B	599	1460

[a]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value.

Alluvial Aquifer Common Ions Data[a]

Sample Location	Sample Date	Ca (mg/L)	Cl[b] (mg/L)	F[b] (μg/L)	Hardness (mg/L)	K (mg/L)	Mg (mg/L)	Na (mg/L)	NH_4[b] (μg/L)	NO_2[b] (μg/L)
On-Site										
82-30B	10/13/1994	177	67.1	736	596	36.1	37.3	221	2900	No Data
	04/26/1995	252	47.1	436	836	37.3	50.1	192	2950	No Data
	10/10/1995	225	88.9	803	743	38.5	43.9	210	2670	No Data
	04/11/1996	208	63.7	794	691	33.8	41.6	207	2680	No Data
	04/11/1996	208	64	805	690	34.8	41.4	205	2550	No Data
82-31B-E	11/04/1993	606	38.2	75.0B	1980	7.1	113	162	30.2	No Data
	05/09/1994	495	22.7	60.3BN	1640	3.5J	99.1	123	61.7	No Data
	10/12/1994	607	36	85.1B	2000	6.99	117	165	408	No Data
	04/18/1995	556	34.7	15.0U	1820	3.89J	105	123	33.8	No Data
	10/11/1995	596	35.8	148B	1960	5.63	115	152	56.3	No Data
82-31B-W	11/11/1992	272	6.75	129B	893	2.64J	51.9	49.8	99	6.0U
	03/02/1993	439R	10.9	90.7B	1420	4.17R	79.8R	74.8R	54.0	8.7B
	03/02/1993	456R	10.8	87.2B	1490	3.37R	84.9R	79.3R	54.0	8.6B
	04/29/1993	513R	140	87.7B	1660	5.48R	91.6R	104R	54.0	33.0B
	07/27/1993	458R	55.5	128B	1480	4.01R	82.3R	111R	86.0	46.3B
82-36A	11/17/1992	288R	108	489	1160	48.9R	108R	627R	12400	82.4B
	03/10/1993	328R	109	604	1290	48.9R	115R	748R	17600	79.3B
	04/27/1993	366R	106	484	1430	50.1R	126R	824R	18700	57.5B
	07/27/1993	396R	122	680	1490	51.5R	122R	800R	18600	36.5B
82-40A	11/12/1992	232	65.2	644	714	27.5	32.6	403	3622	6.0U
	03/04/1993	193	45.2	675	605	24.5	29.9	203J	2940	4.0U
	04/29/1993	228	72.3	491	723	26.9	37.4	217	2390	10.5B
	07/28/1993	327	94.4	686	979	28	39.4	363	3070	12.0B
	07/28/1993	313	92.1	686	941	26.4	38.6	356	2940	22.5B
	11/03/1993	333	91.8	866	993	27.3	39.3	712	4030	No Data
	05/04/1994	252	74.0	880N	776	23.6	35.6	430	3300	No Data
	10/13/1994	280	88.3	986	860	24.4	39	706	5200	No Data
	10/13/1994	272	88	1350	836	23	38.2	667	4960	No Data
	04/26/1995	274	77.8	554	844	23.4	38.7	258	2830	No Data
	04/26/1995	254	77.8	566	783	22.6	36.2	241	2800	No Data
	10/11/1995	316	106	961	960	26.9	41.6	478	3860	No Data
82-42	11/19/1992	245R	11.9	94.0B	765	5.24R	37.1R	50.2R	39	10.8B
	03/03/1993	207	21.3	112B	649	4.88J	32	46.7J	68.0	2.0U
	04/28/1993	221	83.8	113B	694	3.25	34.6	49.2	12.0B	15.3B
	04/28/1993	222	85.8	107B	697	4.4	34.7	48.7	6.0U	15.1B
	07/28/1993	223	59.3	125B	696	3.81J	33.9	57.5	30.0	13.7B

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value.

Alluvial Aquifer Common Ions Data[a]

Sample Location	Sample Date	NO_3 ($\mu g/L$)	NO_3+NO_2 ($\mu g/L$)	NO_3+NO_2-N ($\mu g/L$)	SO_4 (mg/L)	TDS (mg/L)
On-Site						
82-30B	10/13/1994	No Data	No Data	92.2B	635	1500
	04/26/1995	No Data	No Data	27.5B	787	1750
	10/10/1995	No Data	No Data	10.0U	661	1600
	04/11/1996	No Data	No Data	7.0U	666	1570
	04/11/1996	No Data	No Data	7.0U	662	1540
82-31B-E	11/04/1993	No Data	No Data	111	1590	3172
	05/09/1994	No Data	No Data	5700	1410	2660
	10/12/1994	No Data	No Data	1300	1770	3180
	04/18/1995	No Data	No Data	894B	1540	2870
	10/11/1995	No Data	No Data	154B	1760	3120
82-31B-W	11/11/1992	31.9B	No Data	No Data	688	1420
	03/02/1993	304	No Data	No Data	1230	2140
	03/02/1993	262	No Data	No Data	1230	2200
	04/29/1993	29200	No Data	No Data	1180	2510
	07/27/1993	8160	No Data	No Data	1110	2338
82-36A	11/17/1992	18200	No Data	No Data	1700	3700
	03/10/1993	32000	No Data	No Data	2210	3960
	04/27/1993	18600	No Data	No Data	2280	4303
	07/27/1993	13100	No Data	No Data	2110	4120
82-40A	11/12/1992	19.1B	No Data	No Data	997	2160
	03/04/1993	37.3B	No Data	No Data	613	1430
	04/29/1993	78.8B	No Data	No Data	684	1592
	07/28/1993	74.6B	No Data	No Data	1030	2290
	07/28/1993	81.3B	No Data	No Data	1020	2282
	11/03/1993	No Data	No Data	23.3B	1750	3276
	05/04/1994	No Data	No Data	131	1110	2350
	10/13/1994	No Data	No Data	112B	1630	3480
	10/13/1994	No Data	No Data	114B	1640	3400
	04/26/1995	No Data	No Data	35.0B	876	1920
	04/26/1995	No Data	No Data	34.1B	869	1920
	10/11/1995	No Data	No Data	27.2B	1290	2680
82-42	11/19/1992	122B	No Data	No Data	522	1060
	03/03/1993	28.3B	No Data	No Data	366	968
	04/28/1993	3010	No Data	No Data	346	922
	04/28/1993	3040	No Data	No Data	348	894
	07/28/1993	6600	No Data	No Data	386	1062

[a]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value.

Alluvial Aquifer Common Ions Data[a]

Sample Location	Sample Date	Ca (mg/L)	Cl[b] (mg/L)	F[b] (μg/L)	Hardness (mg/L)	K (mg/L)	Mg (mg/L)	Na (mg/L)	NH_4[b] (μg/L)	NO_2[b] (μg/L)
On-Site										
82-42	11/03/1993	188	23.2	84.5B	588	3.82J	28.8	56.3	22.1	No Data
	05/09/1994	258	62.3	84.7BN	815	5.3	41.5	57.1	50.2	No Data
	05/09/1994	257	62.8	82.9BN	811	4.9J	41.2	56.2	42.6	No Data
	10/13/1994	255	18.8	92.4B	809	4.18J	41.9	55.1	1140	No Data
	04/18/1995	285	103	53.1B	895	5.42	44.5	58.3	384	No Data
	10/11/1995	206	38.5	216	647	3.91J	32.3	65.1	25.8	No Data
Downgradient										
82-07	11/04/1992	254	67.7	257	827	11.4	46.9	176	25	35.8B
	03/16/1993	249	79.9	230	836	9.31	52.1	148J	116	29.9B
	04/28/1993	360	146	204	1200	10.6	73.7	171	50.0	131B
	07/29/1993	397	165	232	1330	12.3	81.4	217	54.0	338B
	11/02/1993	374	123	321	1250	12.5	75.9	191	27.5	No Data
	05/10/1994	316	116	210N	1100	10.1	74.6	183	32.9	No Data
	10/10/1994	293	128	202	998	10.8	64.8	172	34.4	No Data
	04/25/1995	339	135	151B	1180	9.5	79.8	188	30.2	No Data
	10/09/1995	328	146	461	1160	9.8	83.5	202	25.8	No Data
88-85	11/05/1992	271R	82.6	305	1020	21.6R	82.9R	152R	19	6.0U
	03/01/1993[c]	280	101	251	960	8.97	63.3	158J	54.0	69.4B
	04/27/1993	408	207	205	1390	12.3	90.8	348	45.0	14.7B
	07/21/1993	261	125	292	917	9.83	64.3	216	206	10.0B
	07/21/1993	268	120	327	940	11.1	65.7	213	189	16.0U
	11/02/1993	283	125	318	1010	10.4	72.5	211	274	No Data
	05/03/1994	296	140	235N	1040	10.1	73.5	205	203	No Data
	10/06/1994	277	129	217	991	9.71	72.7	192	119	No Data
	04/18/1995	293	135	224	1030	8.85	72.3	210	72.4	No Data
	10/06/1995	296	141	472	1060	10.4	76.8	221	246	No Data
	10/06/1995	291	142	418	1040	10.6	76.1	218	262	No Data
92-07	11/05/1992	203	72	326	683	18.5	42.8	194	22	6.0U
	03/16/1993	251	85.2	280	848	20.8	53.8	226J	34.0	3.3B
	04/28/1993	276	111	259	935	21.1	59.7	231	95.0	22.7B
	07/29/1993	123	18.9	423	408	16	24.4	92.1	231	20.0U
	11/02/1993	260	81.5	376	865	21.5	52.5	219	59.7	No Data
	05/10/1994	246	92.7	302N	837	22.0	54.0	268	229	No Data
	10/10/1994	236	95.9	226	807	19.8	52.8	228	583	No Data

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value.
[c]Evaluation and investigation of anomalous data points has determined that the 3/31/93 samples from wells 88-85 and 83-70 were inadvertently switched in the laboratory. Results have been corrected; however, the corrected results were not used in any statistical calculations.

Alluvial Aquifer Common Ions Data[a]

Sample Location	Sample Date	NO_3 (µg/L)	NO_3+NO_2 (µg/L)	NO_3+NO_2-N (µg/L)	SO_4 (mg/L)	TDS (mg/L)
On-Site						
82-42	11/03/1993	No Data	No Data	87.3B	316	886
	05/09/1994	No Data	No Data	656	485	1210
	05/09/1994	No Data	No Data	678	487	1210
	10/13/1994	No Data	No Data	214B	645	1320
	04/18/1995	No Data	No Data	1190	502	1340
	10/11/1995	No Data	No Data	105B	399	1030
Downgradient						
82-07	11/04/1992	7000	No Data	No Data	703	1520
	03/16/1993	11300	No Data	No Data	599	1470
	04/28/1993	32700	No Data	No Data	875	2060
	07/29/1993	28600	No Data	No Data	1060	2466
	11/02/1993	No Data	No Data	2570	970	1594
	05/10/1994	No Data	No Data	2740	882	1950
	10/10/1994	No Data	No Data	2400	867	1940
	04/25/1995	No Data	No Data	4550	885	2100
	10/09/1995	No Data	No Data	2970	954	2110
88-85	11/05/1992	5950	No Data	No Data	554	1420
	03/01/1993[b]	10.0U	No Data	No Data	707	1730
	04/27/1993	48800	No Data	No Data	1320	904
	07/21/1993	15600	No Data	No Data	792	1898
	07/21/1993	15000	No Data	No Data	775	1900
	11/02/1993	No Data	No Data	2350	774	1940
	05/03/1994	No Data	No Data	3700	825	1970
	10/06/1994	No Data	No Data	1980	827	1900
	04/18/1995	No Data	No Data	3480	856	2050
	10/06/1995	No Data	No Data	2100	820	1940
	10/06/1995	No Data	No Data	2130	821	1970
92-07	11/05/1992	5640	No Data	No Data	620	1520
	03/16/1993	19100	No Data	No Data	792	1740
	04/28/1993	36500	No Data	No Data	856	1894
	07/29/1993	81.0B	No Data	No Data	250	792
	11/02/1993	No Data	No Data	352	773	1798
	05/10/1994	No Data	No Data	1200	800	1810
	10/10/1994	No Data	No Data	952	792	1770

[a]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value.
[b]Evaluation and investigation of anomalous data points has determined that the 3/31/93 samples from wells 88-85 and 83-70 were inadvertently switched in the laboratory. Results have been corrected; however, the corrected results were not used in any statistical calculations.

Alluvial Aquifer Common Ions Data[a]

Sample Location	Sample Date	Ca (mg/L)	Cl[b] (mg/L)	F[b] (µg/L)	Hardness (mg/L)	K (mg/L)	Mg (mg/L)	Na (mg/L)	NH_4[b] (µg/L)	NO_2[b] (µg/L)
Downgradient										
92-07	04/25/1995	293	105	195B	987	22.2	62.1	256	515	No Data
	10/09/1995	299	117	483	1010	23.2	63.2	276	859	No Data
92-08	11/05/1992	262	65.3	215	875	12.4	53.6	144	28	53.4B
	03/11/1993	260	58.3	193B	877	10.3	55.4	136J	34.0	5.3B
	04/28/1993	253	69.9	198B	852	9.82	53.4	142	25.0	21.4B
	07/29/1993	317	111	244	1050	11.4	61.7	162	36.0	74.6B
	11/04/1993	245	60.5	253	815	11.4	49.4	157	27.5	No Data
	05/09/1994	277	74.9	150BN	936	11.2	59.3	161	47.3	No Data
	10/07/1994	231	42	119B	779	10.7	49.1	149	31.5	No Data
	04/25/1995	285	84.3	112B	942	10.5	55.9	130	32.9	No Data
	04/25/1995	293	83.9	103B	962	9.98	55.9	131	22.1	No Data
	10/10/1995	327	122	340	1080	13.4	63.8	165	20.7	No Data
92-09	11/10/1992	265	96.6	130B	938	2.51J	67.2	286	130	8.3B
	03/15/1993	267	104	110B	948	1.54J	68.3	283J	88.0	4.5B
	04/22/1993	182	70.5	112B	647	1.25	46.7	247	66.0	4.0U
	07/22/1993	239	88.4	157B	833	1.44J	57.4	232	95.0	17.1B
	10/28/1993	299	115	182B	1030	1.38J	69.3	249J	78.5	No Data
	10/28/1993	293	117	145B	1010	1.07U	68.1	242J	83.9	No Data
	05/10/1994	286	101	100BN	1010	0.77J	72.9	235	117	No Data
	10/05/1994	270	86.4	94.1B	957	1.62J	68.6	223	306	No Data
	10/05/1994	264	87.4	74.5B	936	.876J	67.3	219	262	No Data
	04/24/1995	265	75.9	62.0B	928	1.05U	64.6	197	59.8	No Data
	04/24/1995	272	75.2	67.2B	951	1.05U	65.9	201	59.8	No Data
	10/04/1995	272	81.4	239	964	1.47U	69.1	206	73.2	No Data
	04/09/1996	280	96.6	182B	993	1.34U	71.4	187	53.0	No Data
92-11	11/10/1992	193	66.2	382	652	21.2	41.3	217	2043	13.9B
	11/10/1992	195	66.3	381	657	22.5	41.2	219	2260	17.4B
	03/12/1993	257	114	290	879	25.2	57.6	297J	1440	76.8B
	04/26/1993	264	112	371	896	23.7	57.4	324	1700	25.2B
	04/26/1993	269	115	307	911	25.2	58.2	326	1660	15.8B
	11/04/1993	228	91.1	457	788	29.2	53	285	4840	No Data
	05/03/1994	225	87.4	400N	787	29.4	54.6	296	4280	No Data
	05/03/1994	221	86.4	400N	775	30.4	54.3	291	4220	No Data
	10/06/1994	225	95.6	384	784	27.6	54	275	4760	No Data
	04/20/1995	284	105	280	980	30.2	65.7	348	4140	No Data
	10/06/1995	268	128	638	945	33.6	67	369	6600	No Data

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value.

Alluvial Aquifer Common Ions Data[a]

Sample Location	Sample Date	NO_3 (μg/L)	NO_3+NO_2 (μg/L)	NO_3+NO_2-N (μg/L)	SO_4 (mg/L)	TDS (mg/L)
Downgradient						
92-07	04/25/1995	No Data	No Data	1090	939	2050
	10/09/1995	No Data	No Data	725	975	2110
92-08	11/05/1992	779	No Data	No Data	694	1620
	03/11/1993	506	No Data	No Data	723	1600
	04/28/1993	2180	No Data	No Data	682	1506
	07/29/1993	16700	No Data	No Data	755	1826
	11/04/1993	No Data	No Data	491	634	1420
	05/09/1994	No Data	No Data	1140	765	1690
	10/07/1994	No Data	No Data	152B	730	1500
	04/25/1995	No Data	No Data	1180	707	1630
	04/25/1995	No Data	No Data	1180	710	1630
	10/10/1995	No Data	No Data	1400	831	1910
92-09	11/10/1992	36.9B	No Data	No Data	990	2140
	03/15/1993	62.7B	No Data	No Data	936	2090
	04/22/1993	68.1B	No Data	No Data	636	1628
	07/22/1993	48.2B	No Data	No Data	689	1768
	10/28/1993	No Data	No Data	19.4B	839	2010
	10/28/1993	No Data	No Data	26.5B	856	2004
	05/10/1994	No Data	No Data	17.5B	917	1980
	10/05/1994	No Data	No Data	93.1B	881	1920
	10/05/1994	No Data	No Data	74.4B	894	1910
	04/24/1995	No Data	No Data	38.8B	850	1870
	04/24/1995	No Data	No Data	42.1B	844	1870
	10/04/1995	No Data	No Data	10.0U	803	1820
	04/09/1996	No Data	No Data	9.8B	871	1850
92-11	11/10/1992	5610	No Data	No Data	643	1500
	11/10/1992	5650	No Data	No Data	647	1500
	03/12/1993	53700	No Data	No Data	929	2070
	04/26/1993	19900	No Data	No Data	965	2074
	04/26/1993	20200	No Data	No Data	984	2868
	11/04/1993	No Data	No Data	1770	811	1854
	05/03/1994	No Data	No Data	1240	820	1820
	05/03/1994	No Data	No Data	1240	820	1840
	10/06/1994	No Data	No Data	737	858	1870
	04/20/1995	No Data	No Data	911B	1140	2400
	10/06/1995	No Data	No Data	934	1080	2300

[a]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value.

Alluvial Aquifer Common Ions Data[a]

Sample Location	Sample Date	Ca (mg/L)	Cl[b] (mg/L)	F[b] (µg/L)	Hardness (mg/L)	K (mg/L)	Mg (mg/L)	Na (mg/L)	NH_4[b] (µg/L)	NO_2[b] (µg/L)
Downgradient										
92-11	04/10/1996	238	96.1	589	825	28	56	310	4920	No Data
95-01	02/13/1996	39.8	5.2	317	148	3.08J	11.7	78.2	145	No Data
	04/08/1996	39.5	5.17	247	147	2.15J	11.8	73.6	146	No Data
	07/23/1996	40.1	5.28	302	150	2.72J	12.1	76.3	137	No Data
	07/23/1996	39.6	5.33	205	147	3.09J	11.8	76.1	140	No Data
95-03	02/13/1996	167	82.9	170B	660	3.24J	59	128	308	No Data
	02/13/1996	167	82.2	158B	660	3.17J	58.9	128	283	No Data
	04/09/1996	167	80.7	170B	661	2.49J	59.2	124	223	No Data
	07/24/1996	168	79.8	135	668	3.03J	60.4	126	195	No Data
P92-02	10/10/1995	336R	155	289	1360	2.52R	127R	279R	58.9	No Data
	02/14/1996	356	168	264	1450	1.37J	137	295	55.0	No Data
	07/25/1996	340	149	454	1400	1.7J	133	268	32.2	No Data
P92-04	10/09/1995	303	132	359	1110	1.47U	84.9	168	7.9B	No Data
	02/14/1996	361	135	265	1400	1.28U	122	167	37.5	No Data
	04/10/1996	372	138	251	1480	1.62J	133	163	32.4	No Data
	07/26/1996	263	104	336	994	1.97J	81.8	150	124	No Data
P92-09	10/12/1995	354	207	557	1560	1.47U	163	383	25.8	No Data
	07/25/1996	400	256	846	1770	3.06J	188	407	132	No Data

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value.

Alluvial Aquifer Common Ions Data[a]

Sample Location	Sample Date	NO_3 ($\mu g/L$)	NO_3+NO_2 ($\mu g/L$)	NO_3+NO_2-N ($\mu g/L$)	SO_4 (mg/L)	TDS (mg/L)
Downgradient						
92-11	04/10/1996	No Data	No Data	1060	911	2020
95-01	02/13/1996	No Data	No Data	10.0U*	113	345
	04/08/1996	No Data	No Data	7.0U	113	375
	07/23/1996	No Data	No Data	7.2B	112	370
	07/23/1996	No Data	No Data	7.0U	112	373
95-03	02/13/1996	No Data	No Data	16.8B*	535	1180
	02/13/1996	No Data	No Data	18.2B*	534	1210
	04/09/1996	No Data	No Data	7.0U	535	1210
	07/24/1996	No Data	No Data	7.0U	527	1190
P92-02	10/10/1995	No Data	No Data	10.0U	1240	2640
	02/14/1996	No Data	No Data	15.2B*	1320	2770
	07/25/1996	No Data	No Data	7.0U	1250	2590
P92-04	10/09/1995	No Data	No Data	3230	805	1900
	02/14/1996	No Data	No Data	4980*	1140	2350
	04/10/1996	No Data	No Data	5370	1230	2490
	07/26/1996	No Data	No Data	5120	678	1670
P92-09	10/12/1995	No Data	No Data	3120	1450	3180
	07/25/1996	No Data	No Data	2050	1720	3490

[a]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value. * -- Duplicate analysis is not within control limits.

Alluvial Aquifer Metals Data[a]

Sample Location	Sample Date	Ag (µg/L)	Al (µg/L)	As (µg/L)	B (µg/L)	Ba (µg/L)	Be (µg/L)	Cd (µg/L)	CN[b] (µg/L)	Co (µg/L)
Reference - West of 191										
92-01	11/12/1992	6.0U	412	3.0UJ	48.8J	27.6J	1.0U	1.0U	10.0U	10.0U
	03/08/1993	4.0U	733R	3.1J	79.1J	36.0R	1.0U	1.0U	10.0U	6.0U
	04/22/1993	4.0U	12.0U	3.0UJ	67.4J	17.7J	1.0U	1.0U	4.0U	No Data
	07/20/1993	7.0U	17.2J	3.6J	65.2J	2.0U	1.0U	1.0U	4.0U	No Data
	10/26/1993	1.0U	212	4.0UJ	59.7J	38.1J	No Data	1.0U	No Data	No Data
	05/02/1994	4.0U	37.0J	2.0U	50.8J	20.0J	No Data	1.0U	No Data	No Data
	10/04/1994	1.0UJ	287	2.0UJ	73.3J	25.7J	No Data	1.0U	No Data	No Data
	04/19/1995	1.0UJ	80.7J	1.0U	41.1J	22.3J	No Data	1.0U	No Data	8.0U
	10/03/1995	No Data	83.7J	1.1U	6.0U	No Data	No Data	No Data	No Data	6.7U
92-03	11/12/1992	6.0U	735	3.0U	39.5J	65.3J	1.0U	1.0U	10.0U	10.0U
	03/09/1993	4.0R	2600R	3.0R	67.4R	110R	1.0R	1.0R	10.0U	6.0R
	04/22/1993	4.0R	3550R	5.0R	7.0R	134R	1.1R	1.0R	4.0U	No Data
	07/26/1993	7.0R	964R	3.0R	45.9R	56.5R	1.0R	1.0R	4.0U	No Data
	10/27/1993	1.0U	97.3R	4.0U	45.1J	49.9R	No Data	1.0U	No Data	No Data
	04/26/1994	4.0R	351R	2.0R	33.9R	56.8R	No Data	1.0R	No Data	No Data
	10/04/1994	1.0UJ	71.0J	2.0UJ	2.0UJ	62.3J	No Data	1.0U	No Data	No Data
	04/19/1995	1.0UJ	211R	1.0U	9.4J	40.2R	No Data	1.0U	No Data	8.0U
	10/04/1995	No Data	1150R	1.1U	6.0U	No Data	No Data	No Data	No Data	6.7U
92-05	11/12/1992	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	03/09/1993	4.0R	3920R	3.0R	85.7R	147R	1.0R	1.0R	10.0U	6.0R
	04/22/1993	4.0R	1940R	3.0R	107R	115R	1.0R	1.0R	4.0U	No Data
	07/22/1993	7.0U	645R	3.0J	67.8J	99.0R	1.0U	1.0U	4.0U	No Data
	10/26/1993	1.0U	151J	4.0UJ	53.1J	74.0J	No Data	1.0U	No Data	No Data
	05/02/1994	4.0U	9.0U	2.0U	44.0J	38.1J	No Data	1.0U	No Data	No Data
	10/05/1994	1.0UJ	2050	2.0UJ	67.8J	67.3J	No Data	1.0U	No Data	No Data
	04/18/1995	1.0UJ	82.1J	1.0U	27.9J	37.6J	No Data	1.0U	No Data	8.0U
	10/03/1995	No Data	97.4J	1.1U	6.0U	No Data	No Data	No Data	No Data	6.7U
On-Site										
31SW91-03	11/03/1993	1.0U	37.9J	69.8	112	25.2J	No Data	1.0U	No Data	No Data
	05/05/1994	4.0U	76.3J	70.2	112	17.9J	No Data	1.0U	No Data	No Data
	10/13/1994	1.0UJ	10.6J	73.1J	103J	16.9J	No Data	1.0U	No Data	No Data
	04/26/1995	1.0U	29.4J	69.3	88.8J	24.4J	No Data	1.0U	No Data	8.0U
	10/12/1995	No Data	24.2J	63.6	84.3J	No Data	No Data	No Data	No Data	6.7U
31SW91-14	11/17/1992	6.0U	298R	79.0J	110	35.5R	1.0U	1.0U	10.0U	10.0U

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value.

Alluvial Aquifer Metals Data[a]

Sample Location	Sample Date	Cr (µg/L)	Cu (µg/L)	Fe (µg/L)	Hg (µg/L)	Mn (µg/L)	Mo (µg/L)	Ni (µg/L)	Pb (µg/L)	Sb (µg/L)
Reference - West of 191										
92-01	11/12/1992	6.0U	4.0U	528	0.10U	109	1.7J	11.0U	1.0U	1.0U
	03/08/1993	3.0U	3.0U	1080R	0.10U	75.1R	22.0U	9.0U	1.0R	1.0U
	04/22/1993	3.0U	3.0U	77.8	0.10U	4.8J	1.0U	9.0U	1.1J	1.0U
	07/20/1993	4.0U	5.0U	131	0.10U	1.2J	1.0U	14.0U	1.0U	1.0U
	10/26/1993	4.0U	3.0U	313	No Data	17.1	1.9J	11.0U	1.0U	No Data
	05/02/1994	4.0U	2.0U	5.0U	No Data	1.0U	27.0U	6.0U	1.0U	No Data
	10/04/1994	2.0U	4.0U	409	No Data	31.9	1.0U	8.0U	1.0U	No Data
	04/19/1995	4.0U	3.0U	119	No Data	9.3J	1.0U	10.1J	1.0U	No Data
	10/03/1995	No Data	4.4U	No Data	No Data	7.3J	15.6U	No Data	No Data	35.6U
92-03	11/12/1992	6.0U	4.0U	698	0.10U	35.6	3.0J	11.0U	1.2J	1.0U
	03/09/1993	3.0R	3.0R	3140R	0.10R	258R	22.0R	9.0R	5.1R	1.0R
	04/22/1993	3.0R	4.1R	5190R	0.10R	520R	1.4R	9.0R	11.3R	1.0R
	07/26/1993	4.0R	5.0R	1080R	0.10R	42.9R	1.0R	14.0R	2.6R	1.0R
	10/27/1993	4.0U	3.0U	95.3R	No Data	4.9R	2.8J	11.0U	1.0R	No Data
	04/26/1994	4.3R	2.0R	219R	No Data	21.4R	27.0R	6.0R	1.6R	No Data
	10/04/1994	2.0U	4.0U	77.9J	No Data	27.1	2.6J	8.0U	3.2	No Data
	04/19/1995	4.0U	3.0U	205R	No Data	22.9R	3.1J	9.0U	1.0R	No Data
	10/04/1995	No Data	4.4U	No Data	No Data	11.7R	15.6U	No Data	No Data	35.6U
92-05	11/12/1992	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	03/09/1993	3.0R	3.0R	6180R	0.10R	325R	22.0R	9.0R	6.2R	1.0R
	04/22/1993	4.4R	6.1R	3110R	0.10R	200R	2.1R	9.0R	6.1R	1.2R
	07/22/1993	4.0U	5.0U	975R	0.10U	28.7R	1.4J	14.0U	1.6R	1.0U
	10/26/1993	4.0U	3.0U	204	No Data	7.1J	2.0J	11.0U	1.0U	No Data
	05/02/1994	4.0U	2.0U	5.0U	No Data	1.0U	27.0U	6.0U	1.0U	No Data
	10/05/1994	2.0U	4.0U	2720	No Data	181	3.6J	8.0U	3.1	No Data
	04/18/1995	4.0U	6.8J	81.8J	No Data	4.3J	1.7J	9.0U	1.4J	No Data
	10/03/1995	No Data	4.4U	No Data	No Data	20.0	15.6U	No Data	No Data	35.6U
On-Site										
31SW91-03	11/03/1993	4.0U	3.0U	33.2J	No Data	7020	280	11.0U	1.0U	No Data
	05/05/1994	6.3J	2.0U	95.4J	No Data	6690	263	7.3J	1.0U	No Data
	10/13/1994	2.0U	4.0U	20.2J	No Data	6840	279	8.0U	1.0U	No Data
	04/26/1995	4.0U	3.0U	23.4J	No Data	10300	267	13.5J	1.0U	No Data
	10/12/1995	No Data	4.4U	No Data	No Data	8780	264	No Data	No Data	35.6U
31SW91-14	11/17/1992	6.0U	4.0U	416R	0.10U	9200R	490	14.6J	1.0R	1.0U

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected: value is sample detection limit. UJ -- Not detected, associated value is estimated.

Alluvial Aquifer Metals Data[a]

Sample Location	Sample Date	Se (µg/L)	Sn (µg/L)	Sr (µg/L)	Tl (µg/L)	U (µg/L)	V (µg/L)	Zn (µg/L)
Reference - West of 191								
92-01	11/12/1992	3.0U	No Data	3520	1.0U	5.8	7.0U	6.0U
	03/08/1993	2.0UJ	No Data	3650	1.0U	4.9J	4.0U	7.3R
	04/22/1993	4.7J	No Data	3630	2.0U	6.2	4.0U	11.6J
	07/20/1993	5.1J	No Data	3330	1.0U	4.6J	8.0U	3.0U
	10/26/1993	10.0U	No Data	No Data	1.0U	6.3	5.0U	8.0J
	05/02/1994	1.0U	No Data	No Data	1.0U	5.3	5.0U	2.0U
	10/04/1994	3.5J	No Data	No Data	1.0U	6.0	6.0U	5.7J
	04/19/1995	2.7J	1.0U	No Data	1.0U	5.0J	4.0U	6.6J
	10/03/1995	1.1U	1.1U	No Data	No Data	No Data	6.7U	3.3U
92-03	11/12/1992	3.0U	No Data	1030	1.0U	4.8J	7.0U	6.0U
	03/09/1993	2.0R	No Data	1020R	1.0R	5.7R	4.0R	26.0R
	04/22/1993	2.0R	No Data	969R	2.0R	4.0R	4.0R	37.5R
	07/26/1993	3.0R	No Data	607R	1.0R	3.3R	8.0R	24.6R
	10/27/1993	2.0UJ	No Data	No Data	1.0U	2.8J	5.0U	7.0R
	04/26/1994	1.0R	No Data	No Data	1.0R	2.9R	5.0R	2.0R
	10/04/1994	2.0U	No Data	No Data	1.0U	3.3J	6.0U	2.9J
	04/19/1995	1.0U	1.0U	No Data	1.0U	2.5J	4.0U	13.1R
	10/04/1995	1.1U	1.1U	No Data	No Data	No Data	6.7U	4.6R
92-05	11/12/1992	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	03/09/1993	2.0R	No Data	987R	1.0R	4.4R	4.5R	32.5R
	04/22/1993	4.3R	No Data	1760R	2.0R	7.3R	4.0R	25.4R
	07/22/1993	15.0UJ	No Data	1700	1.0U	3.1J	8.0U	3.0R
	10/26/1993	2.0UJ	No Data	No Data	1.0U	5.3	5.0U	7.0U
	05/02/1994	1.0U	No Data	No Data	1.0U	5.7	5.0U	2.0U
	10/05/1994	2.0U	No Data	No Data	1.0U	5.8	6.0U	15.6J
	04/18/1995	1.6J	1.0U	No Data	1.0U	3.9J	4.0U	29.7
	10/03/1995	1.1U	1.1U	No Data	No Data	No Data	6.7U	3.3U
On-Site								
31SW91-03	11/03/1993	19.9J	No Data	No Data	1.0U	1520	1300	10.7J
	05/05/1994	16.3	No Data	No Data	1.0U	1520	1340	13.9J
	10/13/1994	16.6	No Data	No Data	1.0U	1410	1270	2.0U
	04/26/1995	23.3	1.0U	No Data	1.0U	2100	1200	7.4J
	10/12/1995	17.1	1.1U	No Data	No Data	No Data	1250	3.3U
31SW91-14	11/17/1992	9.5	No Data	1910	1.0U	2530	992	12.9R

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.

Alluvial Aquifer Metals Data[a]

Sample Location	Sample Date	Ag (µg/L)	Al (µg/L)	As (µg/L)	B (µg/L)	Ba (µg/L)	Be (µg/L)	Cd (µg/L)	CN[b] (µg/L)	Co (µg/L)
On-Site										
31SW91-14	03/10/1993	4.0U	50.2J	40.5	180	18.1J	1.0U	1.0U	10.0U	8.8J
	04/29/1993	4.0U	71.0J	63.9J	123	19.8J	1.0U	1.0U	4.0U	No Data
	07/26/1993	7.0U	44.6J	52.1J	129	21.4J	1.0U	1.0U	4.0U	No Data
	11/03/1993	1.0U	43.8J	44.3J	118	5.0U	No Data	1.0U	No Data	No Data
	05/04/1994	4.0U	9.0U	60.0	126	15.7J	No Data	1.0U	No Data	No Data
	10/13/1994	1.0UJ	26.6J	56.9J	108J	17.7J	No Data	1.0U	No Data	No Data
	04/19/1995	1.0UJ	15.6J	49.1	104	23.6J	No Data	1.0U	No Data	15.8J
	10/12/1995	No Data	41.5J	52.9	81.8J	No Data	No Data	No Data	No Data	18.8J
	10/12/1995	No Data	30.9J	51.7	87.7J	No Data	No Data	No Data	No Data	21.1J
31SW91-23	11/19/1992	6.0U	492	19.5J	146	22.4J	1.0U	1.0U	10.0U	10.0U
	03/03/1993	4.0U	48.2R	3.0UJ	162	12.5R	1.0U	1.0U	10.0U	6.0U
	04/27/1993	4.0R	728R	3.0R	155R	30.0R	1.0R	1.0R	4.0U	No Data
	07/27/1993	7.0R	1020R	3.0R	184R	29.4R	1.0R	1.0R	4.0U	No Data
	11/03/1993	1.0U	39.8J	4.0UJ	195	21.2J	No Data	1.0U	No Data	No Data
	05/05/1994	4.0U	9.0U	2.0U	144	8.2J	No Data	1.0U	No Data	No Data
	10/13/1994	1.0UJ	28.2J	2.0UJ	160J	9.6J	No Data	1.0U	No Data	No Data
	04/27/1995	1.0U	30.2J	1.0U	190	7.4J	No Data	1.0U	No Data	8.0U
	10/12/1995	No Data	31.8J	1.1U	140	No Data	No Data	No Data	No Data	6.7U
31SW91-35	04/11/1996	No Data	1420R	256	No Data	No Data	No Data	No Data	No Data	7.8U
31SW91-50	04/11/1996	No Data	150J	193	No Data	No Data	No Data	No Data	No Data	7.8U
31SW91-55	04/11/1996	No Data	10.0U	0.44U	No Data	No Data	No Data	No Data	No Data	7.8U
36SE91-58	04/11/1996	No Data	208J	0.44U	No Data	No Data	No Data	No Data	No Data	7.8U
36SE93-201-2	11/17/1993	5.0R	No Data	469R	No Data	116R	1.0R	3.0R	No Data	No Data
	05/05/1994	4.0R	9670R	369R	439R	212R	No Data	1.0R	No Data	No Data
	10/12/1994	1.0R	4740R	611R	738R	97.6R	No Data	1.0R	No Data	No Data
	04/26/1995	1.0R	221R	508R	356R	56.6R	No Data	1.0R	No Data	8.0R
	10/12/1995	No Data	2980R	526R	630R	No Data	No Data	No Data	No Data	7.9R
	04/11/1996	No Data	873R	409R	No Data	No Data	No Data	No Data	No Data	7.8R
82-30B	11/18/1992	6.0U	80.4J	166J	128	43.1J	1.0U	1.0U	10.0U	10.0U
	03/04/1993	4.0U	47.2J	123	165	47.5J	1.0U	1.0U	10.0U	6.0U
	03/04/1993	4.0U	35.4J	81.2	127	49.2J	1.0U	1.0U	10.0U	6.0U
	04/21/1993	4.0U	12.0U	93.7	133	74.4J	1.0U	1.0U	4.0U	No Data
	07/27/1993	7.0U	26.4J	81.7J	129	46.1J	1.0U	1.0U	4.0U	No Data
	11/03/1993	1.0U	29.0U	81.2	109	5.0U	No Data	1.0U	No Data	No Data
	05/05/1994	4.0U	9.0U	111	102	40.0J	No Data	1.0U	No Data	No Data
	10/13/1994	1.0UJ	10.0U	120J	113J	42.4J	No Data	1.0U	No Data	No Data

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value.

Alluvial Aquifer Metals Data[a]

Sample Location	Sample Date	Cr (µg/L)	Cu (µg/L)	Fe (µg/L)	Hg (µg/L)	Mn (µg/L)	Mo (µg/L)	Ni (µg/L)	Pb (µg/L)	Sb (µg/L)
On-Site										
31SW91-14	03/10/1993	3.0U	3.0U	46.4J	0.10U	9780	423	20.1J	1.0UJ	1.0U
	04/29/1993	3.0U	22.4J	38.7J	0.10U	11500	552	18.1J	1.0U	1.0U
	07/26/1993	4.0U	5.0U	33.4J	0.10U	11800	520	14.0U	1.0U	1.0U
	11/03/1993	4.0U	3.7J	36.4J	No Data	10800	480	18.1J	1.0U	No Data
	05/04/1994	5.6J	2.0U	5.0U	No Data	11400	463	12.3J	1.0U	No Data
	10/13/1994	2.3J	4.0U	43.5J	No Data	11000	523	14.1J	1.0U	No Data
	04/19/1995	4.0U	3.0U	20.8J	No Data	14100	571	20.1J	1.0U	No Data
	10/12/1995	No Data	4.6J	No Data	No Data	11900	567	No Data	No Data	35.6U
	10/12/1995	No Data	5.3J	No Data	No Data	11700	540	No Data	No Data	35.6U
31SW91-23	11/19/1992	6.0U	4.0U	1250	0.10U	287	684	11.0U	22.9	1.0U
	03/03/1993	3.0U	3.0U	31.6R	0.10U	232R	522	11.8J	1.0R	1.0U
	04/27/1993	3.0R	5.9R	2510R	0.10R	338R	751R	9.1R	3.3R	1.0R
	07/27/1993	6.2R	5.0R	4300R	0.10R	356R	774R	14.0R	3.7R	1.0R
	11/03/1993	4.0U	3.0U	34.7J	No Data	413	860	11.0U	1.0U	No Data
	05/05/1994	4.0U	2.0U	43.6J	No Data	291	489	6.0U	1.0U	No Data
	10/13/1994	2.0U	4.0U	16.5J	No Data	260	480	8.0U	1.0U	No Data
	04/27/1995	4.0U	3.0U	18.6J	No Data	120	849	9.0U	1.0U	No Data
	10/12/1995	No Data	4.4U	No Data	No Data	425	710	No Data	No Data	35.6U
31SW91-35	04/11/1996	No Data	27.6J	No Data	No Data	1040R	34000	No Data	0.44R	No Data
31SW91-50	04/11/1996	No Data	3.3U	No Data	No Data	2320	48.6J	No Data	0.44U	No Data
31SW91-55	04/11/1996	No Data	3.3U	No Data	No Data	1470	4.4J	No Data	0.44U	No Data
36SE91-58	04/11/1996	No Data	3.3U	No Data	No Data	32.6	0.56U	No Data	0.44U	No Data
36SE93-201-2	11/17/1993	4.0R	96.0R	784R	0.20R	No Data	2150R	13.0R	9.1R	227R
	05/05/1994	4.0R	76.9R	11100R	No Data	497R	1640R	23.3R	15.5R	No Data
	10/12/1994	2.0R	52.3R	3820R	No Data	511R	1830R	26.0R	12.9R	No Data
	04/26/1995	7.1R	39.2R	184R	No Data	147R	1710R	10.0R	3.2R	No Data
	10/12/1995	No Data	50.5R	No Data	No Data	382R	1740R	No Data	No Data	314R
	04/11/1996	No Data	19.1R	No Data	No Data	206R	1640R	No Data	0.44R	No Data
82-30B	11/18/1992	6.0U	4.0U	208	0.10U	4910	229	12.7J	1.0U	1.0U
	03/04/1993	3.0U	3.0U	92.4J	0.10U	5540	143	9.0U	1.0UJ	1.0U
	03/04/1993	3.0U	3.0U	99.5J	0.10U	5380	154	9.0U	1.2J	1.0U
	04/21/1993	3.6J	3.0U	120	0.10U	11300	126	12.0J	1.2J	1.0U
	07/27/1993	4.0U	5.0U	111	0.10U	6120	156	14.0U	1.0U	1.0U
	11/03/1993	4.0U	3.0U	63.9J	No Data	5560	174	11.0U	1.0U	No Data
	05/05/1994	4.0U	2.0U	51.9J	No Data	5320	180	6.0U	1.0U	No Data
	10/13/1994	2.0U	4.0U	46.1J	No Data	5160	197	8.0U	1.0U	No Data

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected: value is sample detection limit. UJ -- Not detected, associated value is estimated.

Alluvial Aquifer Metals Data[a]

Sample Location	Sample Date	Se (µg/L)	Sn (µg/L)	Sr (µg/L)	Tl (µg/L)	U (µg/L)	V (µg/L)	Zn (µg/L)
On-Site								
31SW91-14	03/10/1993	12.7J	No Data	1940	1.0U	2810	824	6.2J
	04/29/1993	7.0J	No Data	2270	2.0U	2790J	749	27.3
	07/26/1993	14.0J	No Data	2380	1.1J	3170	934	5.9J
	11/03/1993	15.6J	No Data	No Data	1.0U	2880	936	17.1J
	05/04/1994	12.0	No Data	No Data	1.0U	3210	938	2.0U
	10/13/1994	11.9	No Data	No Data	1.0U	3150	869	2.0U
	04/19/1995	10.4	1.0U	No Data	1.0U	4080	785	7.3J
	10/12/1995	11.2	1.1U	No Data	No Data	No Data	866	5.4J
	10/12/1995	11.7	1.1U	No Data	No Data	No Data	869	6.7J
31SW91-23	11/19/1992	4.1J	No Data	4140	1.0U	1210	7.0U	24.2
	03/03/1993	4.7J	No Data	3790	1.0U	1130	4.0U	15.2R
	04/27/1993	41.4R	No Data	4120R	2.0R	1670R	4.0R	20.4R
	07/27/1993	58.4R	No Data	4170R	1.0R	2190R	9.1R	17.5R
	11/03/1993	21.1J	No Data	No Data	1.0U	1980	5.0U	7.0U
	05/05/1994	19.1	No Data	No Data	1.0U	1370	5.0U	2.0U
	10/13/1994	19.5	No Data	No Data	1.0U	1160	6.0U	6.2J
	04/27/1995	80.7	1.0U	No Data	1.0U	3750	4.0U	3.1J
	10/12/1995	17.0	1.1U	No Data	No Data	No Data	6.7U	3.3U
31SW91-35	04/11/1996	395J	No Data	No Data	No Data	271	796	4.4R
31SW91-50	04/11/1996	2.3J	No Data	No Data	No Data	4330	265	15.7J
31SW91-55	04/11/1996	1.5J	No Data	No Data	No Data	53.3	6.7U	2.7J
36SE91-58	04/11/1996	1.3J	No Data	No Data	No Data	27.3	6.7U	13.6J
36SE93-201-2	11/17/1993	302R	No Data	318R	No Data	5490R	169000R	18.7R
	05/05/1994	144R	No Data	No Data	1.0R	4850R	87800R	68.7R
	10/12/1994	66.0R	No Data	No Data	1.0R	6860R	126000R	42.3R
	04/26/1995	277R	1.0R	No Data	1.0R	4200R	93800R	10.5R
	10/12/1995	268R	1.1R	No Data	No Data	No Data	159000R	22.6R
	04/11/1996	70.7R	No Data	No Data	No Data	6080R	59700R	10.5R
82-30B	11/18/1992	14.7	No Data	1350	1.0U	746	2920	9.9J
	03/04/1993	19.1J	No Data	1480	1.0U	850	2730	7.8J
	03/04/1993	23.5J	No Data	1440	1.0U	847	2670	6.9J
	04/21/1993	19.0	No Data	2350	2.0U	1490	2170	3.1J
	07/27/1993	7.9J	No Data	1300	1.0U	1060	2110	3.0U
	11/03/1993	2.0UJ	No Data	No Data	1.0U	914	2410	7.0U
	05/05/1994	15.6	No Data	No Data	1.0U	974	2380	2.0U
	10/13/1994	18.3	No Data	No Data	1.0U	900	2390	2.0U

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Alluvial Aquifer Metals Data[a]

Sample Location	Sample Date	Ag (µg/L)	Al (µg/L)	As (µg/L)	B (µg/L)	Ba (µg/L)	Be (µg/L)	Cd (µg/L)	CN[b] (µg/L)	Co (µg/L)
On-Site										
82-30B	04/26/1995	1.0U	14.2J	88.6	75.9J	58.5J	No Data	1.0U	No Data	8.0U
	10/10/1995	No Data	13.3U	85.2	79.3J	No Data	No Data	No Data	No Data	6.7U
	04/11/1996	No Data	10.0U	87.4	No Data	No Data	No Data	No Data	No Data	7.8U
	04/11/1996	No Data	10.0U	85.6	No Data	No Data	No Data	No Data	No Data	7.8U
82-31B-E	11/04/1993	1.0U	29.0U	4.0UJ	197	5.0U	No Data	1.0U	No Data	No Data
	05/09/1994	4.0U	9.0U	2.0U	101	14.3J	No Data	1.0U	No Data	No Data
	10/12/1994	1.0UJ	10.0U	2.0UJ	171J	9.7J	No Data	1.0U	No Data	No Data
	04/18/1995	1.0UJ	26.4J	1.0U	91.9J	19.8J	No Data	1.0U	No Data	8.0U
	10/11/1995	No Data	18.7J	1.1U	141	No Data	No Data	No Data	No Data	6.7U
82-31B-W	11/11/1992	6.0U	44.0J	3.0UJ	68.9J	18.3J	1.0U	1.0U	10.0U	10.0U
	03/02/1993	4.0U	776R	3.0U	95.8J	48.8R	1.0U	1.0U	10.0U	6.0U
	03/02/1993	4.0U	343R	3.0UJ	82.7J	40.1R	1.0U	1.0U	10.0U	6.0U
	04/29/1993	4.0U	370R	3.0UJ	92.8J	71.7R	1.0U	1.0U	4.2B	No Data
	07/27/1993	7.0U	155R	3.0UJ	102	43.8R	1.0U	1.0U	4.0U	No Data
82-36A	11/17/1992	6.0R	414R	14.0R	147R	25.1R	1.0R	1.0R	10.0U	10.0R
	03/10/1993	4.3R	1390R	23.3R	198R	58.4R	1.0R	1.3R	10.0U	11.4R
	04/27/1993	4.0U	1620R	49.5J	144	102R	1.0U	1.0U	4.0U	No Data
	07/27/1993	7.0R	6480R	44.7R	176R	286R	1.0R	3.2R	4.0U	No Data
82-40A	11/12/1992	6.7J	30.1J	78.4J	111	25.7J	1.0U	1.0U	10.0U	24.9J
	03/04/1993	4.0U	202	49.2	258	26.7J	1.0U	1.0U	10.0U	23.1J
	04/29/1993	4.0U	23.5J	51.7J	95.0J	31.3J	1.0U	1.0U	4.0U	No Data
	07/28/1993	7.0U	32.5J	53.7J	114	34.8J	1.0U	1.0U	4.0U	No Data
	07/28/1993	7.0U	17.1J	43.1J	114	32.4J	1.0U	1.0U	4.0U	No Data
	11/03/1993	1.0U	63.0J	72.1J	154	5.0U	No Data	1.0U	No Data	No Data
	05/04/1994	4.0U	37.1J	64.0	119	17.6J	No Data	1.0U	No Data	No Data
	10/13/1994	1.0UJ	68.6J	84.4J	133J	19.3J	No Data	1.0U	No Data	No Data
	10/13/1994	1.0UJ	61.3J	83.3J	135J	18.5J	No Data	1.0U	No Data	No Data
	04/26/1995	1.0U	75.7J	68.0	88.4J	27.4J	No Data	1.0U	No Data	43.0J
	04/26/1995	1.0U	67.1J	63.5	81.9J	27.8J	No Data	1.0U	No Data	40.2J
	10/11/1995	No Data	32.3J	59.3	103J	No Data	No Data	No Data	No Data	61.3
82-42	11/19/1992	6.0U	294R	6.6J	44.4J	53.3R	1.0U	1.0U	10.0U	10.0U
	03/03/1993	4.0U	102J	5.8J	147	44.6J	1.0U	1.0U	10.0U	6.0U
	04/28/1993	4.0U	233	4.3J	57.8J	43.5J	1.0U	1.0U	4.0U	No Data
	04/28/1993	4.0U	116J	3.6J	56.0J	46.7J	1.0U	1.0U	4.0U	No Data
	07/28/1993	7.0U	142J	3.0J	3.0U	47.5J	1.0U	1.0U	4.0U	No Data
	11/03/1993	1.0U	260	4.5J	73.9J	46.9J	No Data	1.0U	No Data	No Data

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value.

Alluvial Aquifer Metals Data[a]

Sample Location	Sample Date	Cr (µg/L)	Cu (µg/L)	Fe (µg/L)	Hg (µg/L)	Mn (µg/L)	Mo (µg/L)	Ni (µg/L)	Pb (µg/L)	Sb (µg/L)
On-Site										
82-30B	04/26/1995	4.0U	3.0U	85.6J	No Data	8520	103	9.0U	1.0U	No Data
	10/10/1995	No Data	4.4U	No Data	No Data	7060	140	No Data	No Data	35.6U
	04/11/1996	No Data	3.3U	No Data	No Data	6020	166	No Data	0.44U	No Data
	04/11/1996	No Data	3.3U	No Data	No Data	6010	159	No Data	0.44U	No Data
82-31B-E	11/04/1993	4.0U	3.0U	19.0U	No Data	45.8	2.1J	11.6J	2.7J	No Data
	05/09/1994	4.0U	2.0U	5.0U	No Data	12.5J	27.0U	6.0U	1.0U	No Data
	10/12/1994	2.0U	4.0U	7.8J	No Data	70.6	1.0U	8.0U	1.0U	No Data
	04/18/1995	4.0U	3.0U	6.4J	No Data	26.7	1.0U	9.0U	1.0U	No Data
	10/11/1995	No Data	4.4U	No Data	No Data	90.5	15.6U	No Data	No Data	35.6U
82-31B-W	11/11/1992	6.0U	4.0U	134	0.10U	133	3.3J	11.0U	1.0U	1.0U
	03/02/1993	3.0U	3.0U	1020R	0.10U	285R	22.0U	14.9J	2.7R	1.0U
	03/02/1993	3.0U	3.0U	413R	0.10U	199R	22.0U	11.9J	1.0R	1.0U
	04/29/1993	3.0U	5.4J	435R	0.10U	195R	3.2J	9.0U	1.6R	1.0U
	07/27/1993	4.0U	5.0U	187R	0.10U	111R	1.0U	14.0U	1.0R	1.0U
82-36A	11/17/1992	6.0R	52.4R	561R	0.10R	9600R	623R	49.2R	1.0R	1.0R
	03/10/1993	3.0R	98.3R	3740R	0.10R	11900R	833R	46.3R	10.1R	1.0R
	04/27/1993	6.5J	174	6410R	0.10U	12600R	834J	63.1	19.2R	1.0U
	07/27/1993	11.9R	465R	14600R	0.10R	12900R	812R	59.3R	52.8R	1.2R
82-40A	11/12/1992	6.2J	4.0U	3740	0.10U	3910	452	11.0U	1.0U	1.0U
	03/04/1993	3.0U	3.4J	3210J	0.10U	3210	176	12.7J	1.0UJ	1.0U
	04/29/1993	3.0U	3.0U	3060	0.10U	4190	158	10.4J	2.0J	1.0U
	07/28/1993	4.0U	5.0U	5140	0.10U	4670	398	14.0U	1.0U	1.0U
	07/28/1993	4.0U	5.0U	5010	0.10U	4550	364	14.0U	1.3J	1.0U
	11/03/1993	14.0	3.0U	7860	No Data	4520	969	19.2J	1.0U	No Data
	05/04/1994	4.0U	2.0U	5380	No Data	3890	422	8.0J	1.0U	No Data
	10/13/1994	6.9J	6.1J	7550	No Data	4620	919	18.9J	1.0U	No Data
	10/13/1994	7.4J	4.3J	7220	No Data	4510	852	15.4J	1.0U	No Data
	04/26/1995	4.0U	3.0U	4740	No Data	4390	300	12.4J	1.1J	No Data
	04/26/1995	4.0U	3.0U	4400	No Data	4110	215	9.0U	1.0U	No Data
	10/11/1995	No Data	4.4U	No Data	No Data	5250	519	No Data	No Data	59.7J
82-42	11/19/1992	6.0U	4.0U	755R	0.10U	375R	3.8J	11.0U	1.0R	1.0U
	03/03/1993	3.0U	3.0U	420J	0.10U	442	22.0U	9.0U	1.0UJ	1.0U
	04/28/1993	3.0U	3.0U	216	0.10U	233	3.3J	9.8J	1.0U	1.0U
	04/28/1993	3.0U	3.0U	212	0.10U	231	3.3J	9.0U	1.0U	1.0U
	07/28/1993	4.0U	5.0U	256	0.10U	200	1.0U	14.0U	1.0U	1.0U
	11/03/1993	4.0U	11.0J	521	No Data	192	3.6J	11.0U	1.0U	No Data

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.

Alluvial Aquifer Metals Data[a]

Sample Location	Sample Date	Se (µg/L)	Sn (µg/L)	Sr (µg/L)	Tl (µg/L)	U (µg/L)	V (µg/L)	Zn (µg/L)
On-Site								
82-30B	04/26/1995	15.0	1.0U	No Data	1.0U	965	1700	3.0U
	10/10/1995	20.0	1.1U	No Data	No Data	No Data	2060	5.2J
	04/11/1996	16.4J	No Data	No Data	No Data	874	2130	3.3J
	04/11/1996	15.9J	No Data	No Data	No Data	870	2100	2.9J
82-31B-E	11/04/1993	2.0UJ	No Data	No Data	1.0U	26.6	5.0U	7.0U
	05/09/1994	1.0U	No Data	No Data	1.0U	25.6	5.0U	6.0J
	10/12/1994	2.0U	No Data	No Data	1.0U	23.6	6.0U	3.7J
	04/18/1995	1.3J	1.0U	No Data	1.0U	21.6	4.0U	25.5
	10/11/1995	1.1U	1.1U	No Data	No Data	No Data	6.7U	18.6J
82-31B-W	11/11/1992	3.0U	No Data	2880	1.0U	21.7	7.0U	6.0U
	03/02/1993	2.0UJ	No Data	4220	1.0U	56.9	4.0U	20.8R
	03/02/1993	2.0UJ	No Data	4500	1.0U	44.0	4.0U	27.5R
	04/29/1993	3.6J	No Data	4710	2.0U	111J	4.0U	10.0R
	07/27/1993	3.0UJ	No Data	4500	1.0U	46.4	8.0U	6.4R
82-36A	11/17/1992	6.4R	No Data	3800R	1.1R	2940R	482R	67.8R
	03/10/1993	8.9R	No Data	3750R	1.0R	3570R	793R	29.9R
	04/27/1993	7.1J	No Data	4140	2.0U	3980J	573	49.7R
	07/27/1993	12.5R	No Data	4310R	1.0R	3490R	674R	78.7R
82-40A	11/12/1992	3.0UJ	No Data	3550	1.0U	4440	215	6.0U
	03/04/1993	2.0UJ	No Data	2730	1.0U	1520	157	11.7J
	04/29/1993	2.0UJ	No Data	2630	2.0U	1390J	131	12.3J
	07/28/1993	3.0UJ	No Data	4660	1.0U	4130	110	5.6J
	07/28/1993	3.0UJ	No Data	4510	1.0U	3960	110	4.9J
	11/03/1993	2.0UJ	No Data	No Data	1.0U	12600	86.0	7.0U
	05/04/1994	1.0U	No Data	No Data	1.0U	5400	68.6	2.0U
	10/13/1994	2.0U	No Data	No Data	1.0U	10900	64.5	3.3J
	10/13/1994	2.0U	No Data	No Data	1.0U	10200	67.8	2.7J
	04/26/1995	1.0U	1.0U	No Data	1.0U	2330	60.8	8.2J
	04/26/1995	1.0U	1.0U	No Data	1.0U	2400	56.8	9.8J
	10/11/1995	1.1U	1.1U	No Data	No Data	No Data	61.8	5.9J
82-42	11/19/1992	2.6J	No Data	1990	1.0U	53.4	154	21.2R
	03/03/1993	2.0UJ	No Data	1610	1.0U	63.3	173	7.0J
	04/28/1993	3.9J	No Data	1700	2.0U	40.1J	208	9.6J
	04/28/1993	2.1J	No Data	1700	2.0U	39.9J	208	5.0J
	07/28/1993	3.0UJ	No Data	1720	1.0U	37.2	204	5.6J
	11/03/1993	2.0UJ	No Data	No Data	1.0U	29.6	216	14.1J

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected: value is sample detection limit. UJ -- Not detected: associated value is estimated.

Alluvial Aquifer Metals Data[a]

Sample Location	Sample Date	Ag (µg/L)	Al (µg/L)	As (µg/L)	B (µg/L)	Ba (µg/L)	Be (µg/L)	Cd (µg/L)	CN (µg/L)	Co (µg/L)
On-Site										
82-42	05/09/1994	4.0U	99.1J	2.5J	69.0J	46.0J	No Data	1.0U	No Data	No Data
	05/09/1994	4.0U	87.7J	4.8J	69.8J	45.2J	No Data	1.0U	No Data	No Data
	10/13/1994	1.0UJ	12.2J	5.7J	64.0J	45.8J	No Data	1.0U	No Data	No Data
	04/18/1995	1.0UJ	62.6J	1.0U	56.7J	50.9J	No Data	1.0U	No Data	8.0U
	10/11/1995	No Data	13.3U	4.9J	50.0J	No Data	No Data	No Data	No Data	6.7U
Downgradient										
82-07	11/04/1992	6.0U	20.0U	3.0UJ	100J	41.6J	1.0U	1.0U	10.0U	10.0U
	03/16/1993	4.0U	65.1J	3.7J	544	37.2J	1.0U	1.0U	10.0U	6.0U
	04/28/1993	4.0U	97.2J	4.1J	95.1J	50.3J	1.0U	1.0U	6.9B	No Data
	07/29/1993	7.0U	14.0U	3.3J	123	53.0J	1.0U	1.0U	10.3	No Data
	11/02/1993	1.0U	29.0U	4.9J	153	69.6J	No Data	1.0U	No Data	No Data
	05/10/1994	4.0U	9.0U	2.0U	121	41.6J	No Data	1.0U	No Data	No Data
	10/10/1994	1.0UJ	10.0U	2.0UJ	136J	50.3J	No Data	1.0U	No Data	No Data
	04/25/1995	1.0U	16.1J	1.0U	105	48.8J	No Data	1.0U	No Data	8.0U
	10/09/1995	No Data	42.6J	2.2J	128	No Data	No Data	No Data	No Data	6.7U
88-85	11/05/1992	6.0R	108000R	131R	112R	2250R	6.2R	2.0R	10.0U	61.2R
	03/01/1993[c]	4.0U	12.0U	13.9	118	29.9J	1.0U	1.0U	10.0U	6.0U
	04/27/1993	4.0U	12.0U	14.2J	166	48.9J	1.0U	1.0U	4.0U	No Data
	07/21/1993	7.0U	14.0U	20.5	126	33.2J	1.0U	1.0U	4.0U	No Data
	07/21/1993	7.0U	26.8J	20.2J	123	37.2J	1.0U	1.0U	6.0B	No Data
	11/02/1993	1.0U	39.9J	15.4	136	39.4J	No Data	1.0U	No Data	No Data
	05/03/1994	4.0U	143J	2.0U	136	33.2J	No Data	1.0U	No Data	No Data
	10/06/1994	1.0UJ	95.6J	11.4J	129J	33.1J	No Data	1.0U	No Data	No Data
	04/18/1995	1.0UJ	14.1J	8.1J	115	33.4J	No Data	1.0U	No Data	8.0U
	10/06/1995	No Data	837	14.0	137	No Data	No Data	No Data	No Data	6.7U
	10/06/1995	No Data	916	13.4	148	No Data	No Data	No Data	No Data	6.7U
92-07	11/05/1992	6.0U	20.0U	11.6J	92.5J	43.8J	1.0U	1.0U	10.0U	10.0U
	03/16/1993	4.0U	43.3J	16.4J	197	48.0J	1.0U	1.0U	10.0U	6.0U
	04/28/1993	4.0U	61.4J	20.2J	87.2J	50.8J	1.0U	1.0U	4.9B	No Data
	07/29/1993	7.0U	15.0J	14.7J	108	31.7J	1.0U	1.0U	4.0U	No Data
	11/02/1993	1.0U	29.0U	8.0J	103	72.5J	No Data	1.0U	No Data	No Data
	05/10/1994	4.0U	10.4J	13.0	101	54.8J	No Data	1.0U	No Data	No Data
	10/10/1994	1.0UJ	10.6J	16.6J	104J	55.2J	No Data	1.0U	No Data	No Data
	04/25/1995	1.0U	11.0U	13.8	80.0J	62.6J	No Data	1.0U	No Data	8.0U

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value.
[c]Evaluation and investigation of anomalous data points has determined that the 3/31/93 samples from wells 88-85 and 83-70 were inadvertently switched in the laboratory. Results have been corrected; however, the corrected results were not used in any statistical calculations.

Alluvial Aquifer Metals Data[a]

Sample Location	Sample Date	Cr (µg/L)	Cu (µg/L)	Fe (µg/L)	Hg (µg/L)	Mn (µg/L)	Mo (µg/L)	Ni (µg/L)	Pb (µg/L)	Sb (µg/L)
On-Site										
82-42	05/09/1994	4.0U	2.0U	115	No Data	269	27.0U	6.0U	1.0U	No Data
	05/09/1994	4.0U	2.0U	112	No Data	266	27.0U	6.0U	1.0U	No Data
	10/13/1994	2.0U	4.0U	35.3J	No Data	289	3.3J	8.0U	1.0U	No Data
	04/18/1995	4.0U	3.0U	33.0J	No Data	357	3.5J	9.0U	1.0U	No Data
	10/11/1995	No Data	4.4U	No Data	No Data	268	15.6U	No Data	No Data	35.6U
Downgradient										
82-07	11/04/1992	6.0U	4.0U	10.0U	0.10U	78.1	63.4	11.0U	1.0U	1.0U
	03/16/1993	3.0U	3.0U	45.4J	0.10U	76.0	45.2J	9.0U	2.1J	1.0U
	04/28/1993	3.0U	19.9J	96.9J	0.10U	150	54.0	9.0U	1.6J	1.0U
	07/29/1993	4.0U	5.0U	17.3J	0.10U	187	58.7	14.0U	1.0U	1.0U
	11/02/1993	4.0U	3.0U	19.0U	No Data	113	55.1	11.0U	1.0U	No Data
	05/10/1994	4.0U	2.0U	5.0U	No Data	137	27.0U	6.0U	1.0U	No Data
	10/10/1994	2.0U	4.0U	8.6J	No Data	90.3	49.2J	8.0U	1.0U	No Data
	04/25/1995	4.0U	3.0U	18.5J	No Data	112	38.0J	9.0U	1.0U	No Data
	10/09/1995	No Data	4.4U	No Data	No Data	130	32.7J	No Data	No Data	35.6U
88-85	11/05/1992	79.7R	197R	165000R	0.10R	11400R	64.6R	130R	89.1R	1.0R
	03/01/1993[b]	3.0U	3.0U	22.2J	0.10U	1.0U	23.5J	9.0U	1.0UJ	1.0U
	04/27/1993	3.0U	4.8J	51.6J	0.10U	2.5J	46.0J	9.0U	1.7J	1.0U
	07/21/1993	4.0U	5.0U	4.0U	0.10U	2.3J	56.6	14.0U	1.0U	1.0U
	07/21/1993	4.0U	28.5	4.0U	0.10U	2.7J	59.8	14.0U	1.0U	1.0U
	11/02/1993	4.0U	4.6J	28.5J	No Data	4.1J	48.4J	11.0U	1.0U	No Data
	05/03/1994	4.0U	3.4J	129	No Data	6.5J	37.0J	6.0U	1.0U	No Data
	10/06/1994	2.0U	11.1J	112	No Data	12.8J	49.0J	8.0U	1.3J	No Data
	04/18/1995	4.0U	3.0U	24.2J	No Data	2.6J	43.3J	9.0U	1.0U	No Data
	10/06/1995	No Data	4.4U	No Data	No Data	39.4	41.4J	No Data	No Data	35.6U
	10/06/1995	No Data	4.4U	No Data	No Data	33.0	44.0J	No Data	No Data	35.6U
92-07	11/05/1992	6.0U	4.0U	25.2J	0.10U	64.6	141	11.0U	1.0U	1.0U
	03/16/1993	3.4J	3.0U	60.0J	0.10U	47.2	122	9.0U	2.2J	1.0U
	04/28/1993	3.0U	24.6J	22.6J	0.10U	170	137	12.8J	1.2J	1.0U
	07/29/1993	4.0U	13.4J	8.3J	0.10U	212	160	14.0U	1.0U	1.0U
	11/02/1993	4.0U	3.0U	19.0U	No Data	481	159	11.0U	1.0U	No Data
	05/10/1994	4.0U	2.0U	5.0U	No Data	271	134	6.0U	1.0U	No Data
	10/10/1994	2.0U	4.0U	6.0U	No Data	359	146	8.0U	1.0U	No Data
	04/25/1995	4.0U	3.0U	8.4J	No Data	397	138	9.0U	1.0U	No Data

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[b]Evaluation and investigation of anomalous data points has determined that the 3/31/93 samples from wells 88-85 and 83-70 were inadvertently switched in the laboratory. Results have been corrected; however, the corrected results were not used in any statistical calculations.

Alluvial Aquifer Metals Data[a]

Sample Location	Sample Date	Se (µg/L)	Sn (µg/L)	Sr (µg/L)	Tl (µg/L)	U (µg/L)	V (µg/L)	Zn (µg/L)
On-Site								
82-42	05/09/1994	1.0U	No Data	No Data	1.1J	42.5	218	6.2J
	05/09/1994	1.0U	No Data	No Data	1.0U	41.8	215	2.8J
	10/13/1994	2.6J	No Data	No Data	1.0U	37.1	186	2.0U
	04/18/1995	3.3J	1.0U	No Data	1.0U	48.9	219	10.5J
	10/11/1995	2.6J	1.1U	No Data	No Data	No Data	220	3.3U
Downgradient								
82-07	11/04/1992	18.0J	No Data	2680	1.0U	535	75.5	6.0U
	03/16/1993	27.5J	No Data	2660	1.0U	491	76.3	3.0U
	04/28/1993	57.4J	No Data	3620	2.0U	552J	65.7	13.9J
	07/29/1993	21.5J	No Data	4220	1.0U	571	73.3	8.1J
	11/02/1993	16.1J	No Data	No Data	1.0U	467	82.0	9.2J
	05/10/1994	21.6	No Data	No Data	1.0U	376	65.8	7.4J
	10/10/1994	31.1	No Data	No Data	1.0U	396	82.2	7.5J
	04/25/1995	22.8	1.0U	No Data	1.0U	404	73.0	5.9J
	10/09/1995	24.6	1.1U	No Data	No Data	No Data	82.2	6.4J
88-85	11/05/1992	24.7R	No Data	3590R	1.8R	413R	2890R	500R
	03/01/1993[b]	169J	No Data	3480	1.0U	490	404	11.1J
	04/27/1993	26.5J	No Data	4740	2.0U	690J	436	12.9J
	07/21/1993	9.6J	No Data	3360	1.0U	659	445	3.0U
	07/21/1993	15.0UJ	No Data	3450	1.0U	670	456	3.0U
	11/02/1993	2.0UJ	No Data	No Data	1.0U	563	438	9.4J
	05/03/1994	18.2	No Data	No Data	1.0U	514	429	2.0U
	10/06/1994	19.8	No Data	No Data	1.0U	460	428	2.9J
	04/18/1995	17.7	1.0U	No Data	1.0U	571	412	6.9J
	10/06/1995	11.4	1.1U	No Data	No Data	No Data	458	3.3U
	10/06/1995	11.7	1.1U	No Data	No Data	No Data	454	3.3U
92-07	11/05/1992	18.8	No Data	2070	1.0U	717	452	6.0U
	03/16/1993	37.9J	No Data	2470	1.0U	1080	381	3.0U
	04/28/1993	23.2J	No Data	2640	2.0U	1420J	351	17.0J
	07/29/1993	3.3UJ	No Data	1120	1.0U	678	369	15.4J
	11/02/1993	3.5J	No Data	No Data	1.0U	1330	385	7.0U
	05/10/1994	6.8	No Data	No Data	1.0U	1280	441	4.6J
	10/10/1994	7.0	No Data	No Data	1.0U	942	435	2.0U
	04/25/1995	6.4	1.0U	No Data	1.0U	1300	426	4.2J

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Alluvial Aquifer Metals Data[a]

Sample Location	Sample Date	Ag (µg/L)	Al (µg/L)	As (µg/L)	B (µg/L)	Ba (µg/L)	Be (µg/L)	Cd (µg/L)	CN[b] (µg/L)	Co (µg/L)
Downgradient										
92-07	10/09/1995	No Data	13.3U	13.9	83.5J	No Data	No Data	No Data	No Data	7.4J
92-08	11/05/1992	6.0U	145J	3.0UJ	111	44.3J	1.0U	1.0U	10.0U	10.0U
	03/11/1993	4.0U	24.1J	3.0U	93.8J	35.5J	1.0U	1.0U	10.0U	6.0U
	04/28/1993	4.0U	12.0U	3.0UJ	86.6J	36.6J	1.0U	1.0U	4.0U	No Data
	07/29/1993	7.0U	14.0U	3.0UJ	119	40.2J	1.0U	1.0U	6.3B	No Data
	11/04/1993	1.0U	29.0U	4.0UJ	106	5.0U	No Data	1.0U	No Data	No Data
	05/09/1994	4.0U	12.7J	2.0U	89.3J	33.9J	No Data	1.0U	No Data	No Data
	10/07/1994	1.0UJ	10.0U	2.0UJ	120J	33.3J	No Data	1.0U	No Data	No Data
	04/25/1995	152	11.0U	1.0U	80.1J	35.5J	No Data	1.0U	No Data	8.0U
	04/25/1995	106	11.0U	1.0U	80.6J	37.3J	No Data	1.0U	No Data	8.0U
	10/10/1995	No Data	13.3U	1.1U	88.2J	No Data	No Data	No Data	No Data	6.7U
92-09	11/10/1992	6.0U	20.0U	3.0UJ	126	12.8J	1.0U	1.0U	10.0U	10.0U
	03/15/1993	4.0U	32.4J	3.0UJ	143	15.3J	1.0U	1.0U	10.0U	6.0U
	04/22/1993	4.0U	12.0U	3.0UJ	114	8.9J	1.0U	1.0U	4.0U	No Data
	07/22/1993	7.0U	14.0U	4.3J	166	2.0U	1.0U	1.0U	4.0U	No Data
	10/28/1993	1.0U	61.7J	4.0U	185	26.0U	No Data	1.0U	No Data	No Data
	10/28/1993	1.0U	40.4J	4.0UJ	182	26.0U	No Data	1.0U	No Data	No Data
	05/10/1994	4.0U	9.0U	2.0U	129	11.0J	No Data	1.0U	No Data	No Data
	10/05/1994	1.0UJ	10.0U	2.0UJ	162J	16.6J	No Data	1.0U	No Data	No Data
	10/05/1994	1.0UJ	10.4J	2.0UJ	157J	15.2J	No Data	1.0U	No Data	No Data
	04/24/1995	1.0U	11.0U	1.0U	97.2J	11.6J	No Data	1.0U	No Data	8.0U
	04/24/1995	1.0U	11.0U	1.0U	99.3J	11.5J	No Data	1.0U	No Data	8.0U
	10/04/1995	No Data	14.1J	1.8J	192	No Data	No Data	No Data	No Data	6.7U
	04/09/1996	No Data	115J	0.44U	No Data	No Data	No Data	No Data	No Data	7.8U
92-11	11/10/1992	6.0U	51.2J	28.3J	106	22.3J	1.0U	1.0U	10.0U	10.0U
	11/10/1992	6.0U	45.5J	34.1J	94.4J	18.3J	1.0U	1.0U	10.0U	10.0U
	03/12/1993	4.0U	60.3J	28.8J	141	27.2J	1.0U	1.0U	10.0U	6.0U
	04/26/1993	4.0U	12.0U	34.3J	117	26.2J	1.0U	1.0U	4.0U	No Data
	04/26/1993	4.0U	12.0U	32.9J	116	27.1J	1.0U	1.0U	4.0U	No Data
	11/04/1993	1.0U	129J	29.8	109	5.0U	No Data	1.0U	No Data	No Data
	05/03/1994	4.0U	140J	40.2	109	20.5J	No Data	1.0U	No Data	No Data
	05/03/1994	4.0U	122J	38.9	111	20.3J	No Data	1.0U	No Data	No Data
	10/06/1994	1.0UJ	41.1J	42.2J	102J	20.3J	No Data	1.0U	No Data	No Data
	04/20/1995	1.0UJ	11.0U	31.0	87.3J	24.6J	No Data	1.0U	No Data	8.0U
	10/06/1995	No Data	26.7J	37.5	6.0U	No Data	No Data	No Data	No Data	6.7U
	04/10/1996	No Data	52.3J	37.4	No Data	No Data	No Data	No Data	No Data	7.8U

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[b]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value.

Alluvial Aquifer Metals Data[a]

Sample Location	Sample Date	Cr (µg/L)	Cu (µg/L)	Fe (µg/L)	Hg (µg/L)	Mn (µg/L)	Mo (µg/L)	Ni (µg/L)	Pb (µg/L)	Sb (µg/L)
Downgradient										
92-07	10/09/1995	No Data	4.4U	No Data	No Data	807	170	No Data	No Data	35.6U
92-08	11/05/1992	6.0U	4.0U	205	0.10U	1150	96.0	11.0U	1.0U	1.0U
	03/11/1993	4.2J	3.0U	4.0U	0.10U	1000	71.3	9.0U	1.0UJ	1.0U
	04/28/1993	3.0U	3.0U	11.6J	0.10U	992	82.7	9.0U	1.0U	1.0U
	07/29/1993	4.0U	5.0U	14.8J	0.10U	1120	83.9	14.0U	1.6J	1.0U
	11/04/1993	4.0U	3.0U	19.0U	No Data	921	93.5	11.0U	1.0U	No Data
	05/09/1994	4.0U	2.0U	5.0U	No Data	1030	71.6	6.0U	1.0U	No Data
	10/07/1994	2.0U	4.0U	6.0U	No Data	862	89.5	8.0U	1.0U	No Data
	04/25/1995	4.0U	3.0U	5.0U	No Data	1030	71.7	9.0U	1.0U	No Data
	04/25/1995	4.0U	3.0U	5.0U	No Data	1070	71.2	9.0U	1.0U	No Data
	10/10/1995	No Data	4.4U	No Data	No Data	1210	56.2	No Data	No Data	35.6U
92-09	11/10/1992	6.0U	4.0U	1240	0.10U	244	3.2J	11.0U	1.0U	1.0U
	03/15/1993	3.0U	3.0U	1340J	0.10U	216	22.0U	9.0U	24.8J	1.0U
	04/22/1993	3.0U	3.0U	774	0.10U	123	2.1J	9.0U	1.2J	1.0U
	07/22/1993	4.0U	5.0U	814	0.10U	115	3.9J	14.0U	2.0J	1.0U
	10/28/1993	4.0U	3.0U	983	No Data	131	4.1J	11.0U	1.0U	No Data
	10/28/1993	4.0U	3.0U	966	No Data	127	4.0J	11.0U	1.0U	No Data
	05/10/1994	4.0U	2.0U	1040	No Data	128	27.0U	6.0U	1.0U	No Data
	10/05/1994	2.0U	4.0U	1180	No Data	141	2.8J	8.0U	1.0U	No Data
	10/05/1994	2.0U	4.0U	1150	No Data	139	2.9J	8.0U	1.0U	No Data
	04/24/1995	4.0U	3.0U	896	No Data	107	2.7J	9.0U	1.0U	No Data
	04/24/1995	4.0U	3.0U	915	No Data	109	2.7J	9.0U	1.0U	No Data
	10/04/1995	No Data	4.4U	No Data	No Data	96.2	15.6U	No Data	No Data	35.6U
	04/09/1996	No Data	3.3U	No Data	No Data	130	0.56U	No Data	0.44U	No Data
92-11	11/10/1992	6.0U	4.0U	83.2J	0.10U	1840	187	11.0U	1.0U	1.0U
	11/10/1992	6.0U	4.0U	119	0.10U	1860	190	11.0U	1.0U	1.0U
	03/12/1993	4.3J	3.0U	80.5J	0.10U	910	144	10.9J	1.0UJ	1.0U
	04/26/1993	3.0U	3.0U	22.0J	0.10U	601	196	9.0U	1.0U	1.0U
	04/26/1993	3.0U	3.0U	23.6J	0.10U	608	198	9.0U	1.0U	1.0U
	11/04/1993	4.0U	3.0U	288	No Data	1160	230	11.0U	1.0U	No Data
	05/03/1994	4.0U	2.0U	257	No Data	1080	240	6.0U	1.0U	No Data
	05/03/1994	4.0U	2.0U	5.0U	No Data	1080	219	6.0U	1.0U	No Data
	10/06/1994	2.0U	4.0U	71.2J	No Data	2180	229	8.0U	1.0U	No Data
	04/20/1995	4.0U	3.0U	36.6J	No Data	1630	220	9.9J	1.0U	No Data
	10/06/1995	No Data	4.4U	No Data	No Data	3770	264	No Data	No Data	35.6U
	04/10/1996	No Data	3.3U	No Data	No Data	4210	236	No Data	0.44U	No Data

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.

Alluvial Aquifer Metals Data[a]

Sample Location	Sample Date	Se (µg/L)	Sn (µg/L)	Sr (µg/L)	Tl (µg/L)	U (µg/L)	V (µg/L)	Zn (µg/L)
Downgradient								
92-07	10/09/1995	7.8	1.1U	No Data	No Data	No Data	457	3.3U
92-08	11/05/1992	10.0	No Data	2660	1.0U	578	7.0U	6.0U
	03/11/1993	9.8J	No Data	2610	1.0U	636	4.0U	4.3J
	04/28/1993	5.3J	No Data	2480	2.0U	632J	4.0U	3.7J
	07/29/1993	19.4J	No Data	3040	1.0U	713	8.0U	3.0U
	11/04/1993	20.1J	No Data	No Data	1.0U	578	5.0U	7.0U
	05/09/1994	18.8	No Data	No Data	1.0U	647	5.0U	2.2J
	10/07/1994	11.0	No Data	No Data	1.0U	459	6.0U	2.0U
	04/25/1995	22.7	1.0U	No Data	1.0U	594	4.0U	4.1J
	04/25/1995	24.9	1.0U	No Data	1.0U	588	6.8J	5.5J
	10/10/1995	14.0	1.1U	No Data	No Data	No Data	6.7U	8.0J
92-09	11/10/1992	3.0UJ	No Data	1930	1.0U	395	7.0U	6.0U
	03/15/1993	6.0J	No Data	1870	1.0U	412	4.0U	3.0U
	04/22/1993	2.0UJ	No Data	1280	2.0U	351	4.0U	8.9J
	07/22/1993	3.0U	No Data	1570	1.0U	431	8.0U	5.3J
	10/28/1993	2.0UJ	No Data	No Data	1.0U	369	5.0U	7.0U
	10/28/1993	2.0UJ	No Data	No Data	1.0U	365	5.0U	7.0U
	05/10/1994	1.0U	No Data	No Data	1.0U	306	5.0U	4.9J
	10/05/1994	2.0U	No Data	No Data	1.0U	291	6.0U	3.0J
	10/05/1994	2.0U	No Data	No Data	1.0U	282	6.0U	8.9J
	04/24/1995	1.0U	1.0U	No Data	1.0U	256	4.0U	4.5J
	04/24/1995	1.0U	1.0U	No Data	1.0U	255	4.0U	3.0U
	10/04/1995	1.1U	1.1U	No Data	No Data	No Data	6.7U	3.3U
	04/09/1996	1.1UJ	No Data	No Data	No Data	244	6.7U	3.9J
92-11	11/10/1992	12.0	No Data	1960	1.0U	820	875	6.0U
	11/10/1992	12.5	No Data	1970	1.0U	819	885	6.0U
	03/12/1993	50.8J	No Data	2610	1.0U	2620	756	9.5J
	04/26/1993	18.3J	No Data	2630	2.0U	2870J	786	15.9J
	04/26/1993	11.3J	No Data	2680	2.0U	2720J	802	6.3J
	11/04/1993	2.0UJ	No Data	No Data	1.0U	1370	880	7.8J
	05/03/1994	1.0U	No Data	No Data	1.0U	1500	907	2.0U
	05/03/1994	1.0U	No Data	No Data	1.0U	1430	892	2.0U
	10/06/1994	9.1	No Data	No Data	1.0U	1560	963	4.0J
	04/20/1995	6.7	1.0U	No Data	1.0U	2050	808	18.0J
	10/06/1995	9.1J	1.1U	No Data	No Data	No Data	1000	3.3U
	04/10/1996	9.1J	No Data	No Data	No Data	1560	930	4.7J

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected: value is sample detection limit. UJ -- Not detected. associated value is estimated.

Alluvial Aquifer Metals Data[a]

Sample Location	Sample Date	Ag (µg/L)	Al (µg/L)	As (µg/L)	B (µg/L)	Ba (µg/L)	Be (µg/L)	Cd (µg/L)	CN[b] (µg/L)	Co (µg/L)
Downgradient										
95-01	02/13/1996	No Data	26.8J	2.6J	No Data	No Data	No Data	No Data	No Data	6.1J
	04/08/1996	No Data	295	0.44U	No Data	No Data	No Data	No Data	No Data	7.8U
	07/23/1996	No Data	106J	4.0J	No Data	No Data	No Data	No Data	No Data	6.6U
	07/23/1996	No Data	130J	5.2J	No Data	No Data	No Data	No Data	No Data	6.6U
95-03	02/13/1996	No Data	117J	1.1U	No Data	No Data	No Data	No Data	No Data	5.6U
	02/13/1996	No Data	60.4J	1.1U	No Data	No Data	No Data	No Data	No Data	5.6U
	04/09/1996	No Data	274	0.44U	No Data	No Data	No Data	No Data	No Data	7.8U
	07/24/1996	No Data	180J	1.1J	No Data	No Data	No Data	No Data	No Data	6.6U
P92-02	10/10/1995	No Data	1650R	1.9J	146	No Data	No Data	No Data	No Data	6.7U
	02/14/1996	No Data	145J	1.1U	No Data	No Data	No Data	No Data	No Data	5.6U
	07/25/1996	No Data	233	10.3J	No Data	No Data	No Data	No Data	No Data	6.6U
P92-04	10/09/1995	No Data	111J	1.1U	126	No Data	No Data	No Data	No Data	6.7U
	02/14/1996	No Data	200J	1.1U	No Data	No Data	No Data	No Data	No Data	6.4J
	04/10/1996	No Data	47.8J	0.44U	No Data	No Data	No Data	No Data	No Data	7.8U
	07/26/1996	No Data	49.4J	6.4J	No Data	No Data	No Data	No Data	No Data	6.6U
P92-09	10/12/1995	No Data	102J	1.1U	212	No Data	No Data	No Data	No Data	6.7U
	07/25/1996	No Data	785	1.9J	No Data	No Data	No Data	No Data	No Data	6.6U

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected: value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value.

Alluvial Aquifer Metals Data[a]

Sample Location	Sample Date	Cr (µg/L)	Cu (µg/L)	Fe (µg/L)	Hg (µg/L)	Mn (µg/L)	Mo (µg/L)	Ni (µg/L)	Pb (µg/L)	Sb (µg/L)
Downgradient										
95-01	02/13/1996	No Data	4.4U	No Data	No Data	280	1.1U	10.0U	1.1U	1.1U
	04/08/1996	No Data	3.3U	No Data	No Data	249	0.56U	No Data	0.44U	No Data
	07/23/1996	No Data	3.7U	No Data	No Data	211	1.5J	No Data	5.8	No Data
	07/23/1996	No Data	3.7U	No Data	No Data	210	1.5J	No Data	1.2J	No Data
95-03	02/13/1996	No Data	4.4U	No Data	No Data	432	1.1U	10.0U	1.1U	1.1U
	02/13/1996	No Data	4.4U	No Data	No Data	434	1.1U	10.0U	1.1U	1.1U
	04/09/1996	No Data	3.6J	No Data	No Data	421	6.5J	No Data	0.44U	No Data
	07/24/1996	No Data	3.7U	No Data	No Data	411	7.1J	No Data	1.3J	No Data
P92-02	10/10/1995	No Data	4.4U	No Data	No Data	201R	15.6U	No Data	No Data	35.6U
	02/14/1996	No Data	4.4U	No Data	No Data	196	1.1U	10.0U	1.1U	1.1U
	07/25/1996	No Data	3.7U	No Data	No Data	192	3.4J	No Data	1.4J	No Data
P92-04	10/09/1995	No Data	4.4U	No Data	No Data	5.5J	15.6U	No Data	No Data	35.6U
	02/14/1996	No Data	4.4U	No Data	No Data	4.3J	1.1U	10.0U	6.6	3.3J
	04/10/1996	No Data	3.3U	No Data	No Data	2.8J	0.56U	No Data	0.44U	No Data
	07/26/1996	No Data	3.7U	No Data	No Data	1.9J	1.4J	No Data	0.66J	No Data
P92-09	10/12/1995	No Data	4.4U	No Data	No Data	1.0U	15.6U	No Data	No Data	35.6U
	07/25/1996	No Data	3.7U	No Data	No Data	31.5	22.7J	No Data	1.2J	No Data

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.

Alluvial Aquifer Metals Data[a]

Sample Location	Sample Date	Se (µg/L)	Sn (µg/L)	Sr (µg/L)	Tl (µg/L)	U (µg/L)	V (µg/L)	Zn (µg/L)
Downgradient								
95-01	02/13/1996	2.2UJ	1.1U	No Data	No Data	No Data	5.6U	20.4J
	04/08/1996	1.1UJ	No Data	No Data	No Data	1.3J	6.7U	4.7J
	07/23/1996	1.7U	No Data	No Data	No Data	0.58J	7.7U	27.0
	07/23/1996	1.7U	No Data	No Data	No Data	0.42J	7.7U	5.2J
95-03	02/13/1996	2.2UJ	1.1U	No Data	No Data	No Data	5.6U	3.1J
	02/13/1996	2.2UJ	1.1U	No Data	No Data	No Data	5.6U	2.2U
	04/09/1996	1.1UJ	No Data	No Data	No Data	6.2	6.7U	10.6J
	07/24/1996	1.7U	No Data	No Data	No Data	5.9	7.7U	4.6J
P92-02	10/10/1995	1.1U	1.1U	No Data	No Data	No Data	6.7U	8.2R
	02/14/1996	2.2UJ	1.1U	No Data	No Data	No Data	5.6U	7.0J
	07/25/1996	1.7U	No Data	No Data	No Data	66.2	7.7U	7.5J
P92-04	10/09/1995	3.8J	1.1U	No Data	No Data	No Data	6.7U	6.3J
	02/14/1996	6.1J	1.3J	No Data	No Data	No Data	5.6U	21.0J
	04/10/1996	7.9J	No Data	No Data	No Data	27.3	6.7U	10.3J
	07/26/1996	5.4J	No Data	No Data	No Data	31.5	7.7U	7.3J
P92-09	10/12/1995	6.9	1.1U	No Data	No Data	No Data	6.7U	4.8J
	07/25/1996	6.4	No Data	No Data	No Data	119	7.7U	16.8J

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.

Alluvial Aquifer Radiological Data[a]

Sample Location	Sample Date	Alpha[b] (pCi/L)	Alpha-U[c] (pCi/L)	Beta (pCi/L)	Pb210 (pCi/L)	Po210 (pCi/L)	Ra226 (pCi/L)	Ra228 (pCi/L)	Rn222[d] (pCi/L)	Th230 (pCi/L)
Reference - West of 191										
92-01	11/12/1992	50U	50U	30U	No Data	0.5U	0.1	1U	595	0.31
	03/08/1993	48U	48U	39U	2U	0.5U	0.1	1U	790	0.3U
	04/22/1993	49U	49U	52U	2U	0.14U	0.07U	1U	940	0.07U
	07/20/1993	37UJ	37UJ	21U	2U	0.15U	0.10U	2U	1070	0.09U
	10/26/1993	52U	52U	40U	2U	0.15U	0.55U	2U	620	0.09U
	05/02/1994	39U	39U	33U	2U	0.20U	0.21U	3.8U	792	0.12U
	10/04/1994	54UJ	54UJ	52U	2U	0.5U	0.5U	4.7U	733	0.3U
	04/19/1995	38U	38U	27U	2U	0.5U	0.5U	4.4U	847	0.3U
	10/03/1995	77U	77U	42U	2U	No Data	0.5U	No Data	853	0.76U
92-03	11/12/1992	30U	30U	30U	No Data	0.7U	0.4	2U	267	0.3
	03/09/1993	12.1U	12.1U	7.0U	2U	1.0U	0.4	2U	930	0.3U
	04/22/1993	13.3U	13.3U	10.5U	2U	0.16U	0.22	1U	959	0.14U
	07/26/1993	12.5UJ	12.5UJ	10.2U	2U	0.28UJ	0.05U	2U	580	0.22U
	10/27/1993	12.1U	12.1U	9.9U	2U	0.12U	0.29U	3U	284	0.16U
	04/26/1994	15.8U	15.8U	10.1U	2U	0.10U	0.10U	3.3U	743	0.06U
	10/04/1994	18.1UJ	18.1UJ	14.2U	2U	0.5U	0.5U	2.9U	1050	0.3U
	04/19/1995	15.6U	15.6U	13.6U	2U	0.5U	0.5U	4.2U	1080	0.3U
	10/04/1995	20U	20U	10U	2U	No Data	0.5U	No Data	603	0.76U
92-05	11/12/1992	No Data	No Data	No Data	No Data	No Data	No Data	No Data	203	No Data
	03/09/1993	19.3U	19.3U	13.3U	2U	0.92U	0.4	2U	370	0.45
	04/22/1993	26U	26U	21U	2U	0.10U	0.07U	1U	864	0.07U
	07/22/1993	25UJ	25UJ	19.8U	2U	0.26U	0.56	1U	1270	0.12U
	10/26/1993	33U	33U	20U	2U	0.38U	0.23	2U	549	0.07U
	05/02/1994	44U	44U	48U	2U	0.08U	0.06U	2.0U	789	0.05U
	10/05/1994	31UJ	31UJ	24U	2U	0.5U	0.5UJ	4.4U	572	0.3U
	04/18/1995	28U	28U	18.4U	2U	0.5U	0.5U	3.1U	844	0.3U
	10/03/1995	41U	41U	21U	2U	No Data	0.5U	No Data	577	0.76U
On-Site										
31SW91-03	11/03/1993	1240	174	525	5.6	0.14U	0.35	3U	825	0.09U
	05/05/1994	1490	361	320	3.2	0.16U	0.20	2.1U	873	0.09U
	10/13/1994	1290J	427	737	6.1	0.5U	0.5U	2.4U	902	0.3U
	04/26/1995	1780	252	370	15.3	0.5U	0.5U	2.6U	864	0.3U
	10/12/1995	1600	311	360	2.2U	No Data	0.5U	No Data	1010	0.76U
31SW91-14	11/17/1992	2500	767	790	No Data	0.3U	0.2	2U	1260	0.6U

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. J- -- Estimated quantity (underestimate). U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated. UJ- -- Not detected; associated value is estimated (underestimate).
[b]Toal gross alpha excluding radon which is lost during analysis.
[c]Gross alpha minus uranium activity. Result rounded as appropriate.
[d]Unvalidated data.

Alluvial Aquifer Radiological Data[a]

Sample Location	Sample Date	Th232 (pCi/L)	U (μg/L)	U234 (pCi/L)	U235 (pCi/L)	U238 (pCi/L)
Reference - West of 191						
92-01	11/12/1992	0.3U	5.8	0.37	No Data	0.38
	03/08/1993	0.3U	4.9J	77.5	No Data	77.5
	04/22/1993	0.06U	6.2	5.0	0.14U	2.2
	07/20/1993	0.08U	4.6J	3.9	0.14U	1.7
	10/26/1993	0.07U	6.3	5.3	0.11U	2.5
	05/02/1994	0.11U	5.3	5.0	0.19U	3.1
	10/04/1994	0.3U	6.0	5.4	0.42	3.1
	04/19/1995	0.3U	5.0J	4.1	0.3U	1.9
	10/03/1995	No Data	No Data	5.5U	1.0U	2.7J
92-03	11/12/1992	0.3U	4.8J	1.1	No Data	1.2
	03/09/1993	0.3U	5.7R	4.9	No Data	2.3
	04/22/1993	0.14U	4.0R	2.7	0.22U	1.8
	07/26/1993	0.17U	3.3R	1.7J	0.14UJ	0.92J
	10/27/1993	0.15U	2.8J	0.04U	0.29U	0.28U
	04/26/1994	0.05U	2.9R	2.7	0.08U	1.2
	10/04/1994	0.3U	3.3J	2.5	0.3U	1.2
	04/19/1995	0.3U	2.5J	2.1	0.3U	1.0
	10/04/1995	No Data	No Data	2.4U	1.0U	1.1J
92-05	11/12/1992	No Data	No Data	No Data	No Data	No Data
	03/09/1993	0.55	4.4R	3.3	No Data	1.8
	04/22/1993	0.06U	7.3R	4.1	0.49	2.2
	07/22/1993	0.09U	3.1J	2.8	0.20U	1.3
	10/26/1993	0.06U	5.3	3.5	0.12U	1.9
	05/02/1994	0.06U	5.7	4.2	0.07U	1.8
	10/05/1994	0.3U	5.8	3.9	0.3U	2.1
	04/18/1995	0.3U	3.9J	3.1	0.3U	1.4
	10/03/1995	No Data	No Data	3.1U	1.0U	1.6J
On-Site						
31SW91-03	11/03/1993	0.06U	1520	506J	21.4J	539J
	05/05/1994	0.09U	1520	538	31.4	560
	10/13/1994	0.3U	1410	416	21.4	426
	04/26/1995	0.3U	2100	746	29.8	752
	10/12/1995	No Data	No Data	610	33.8	645
31SW91-14	11/17/1992	0.4U	2530	852	No Data	881

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Alluvial Aquifer Radiological Data[a]

Sample Location	Sample Date	Alpha[b] (pCi/L)	Alpha-U[c] (pCi/L)	Beta (pCi/L)	Pb210 (pCi/L)	Po210 (pCi/L)	Ra226 (pCi/L)	Ra228 (pCi/L)	Rn222[d] (pCi/L)	Th230 (pCi/L)
On-Site										
31SW91-14	03/10/1993	1920	156	770	8.4	0.86U	0.3U	2U	1090	0.3U
	04/29/1993	2370	170	1140	2.8	0.22U	0.17U	3U	1070	0.69U
	07/26/1993	2380J	216	599	21.4	0.34UJ	0.04U	2U	1210	7.8U
	11/03/1993	1860	0[e]	899	28.4	0.24U	0.33	3U	1080	1.5U
	05/04/1994	3170	873	689	2U	0.12	0.10U	1.9U	924	2.7U
	10/13/1994	3170J	995	1470	6.0	0.5U	0.5U	2.3U	1200	0.3U
	04/19/1995	3930	695	964	6.4	0.5U	0.5U	3.0U	1170	0.3U
	10/12/1995	3500	813	780	0.58	No Data	0.5U	No Data	1100	0.76U
	10/12/1995	3500	852	670	1.5	No Data	0.5U	No Data	1280	0.76U
31SW91-23	11/19/1992	1100	333	340.	No Data	0.4U	0.2	2U	99	0.5U
	03/03/1993	684	0[e]	170	2U	0.5U	0.1	2U	180	0.55
	04/27/1993	1030	0[e]	666	20.4	0.22U	0.74U	4U	184	4.4U
	07/27/1993	1590J	1590[f]	443	11.2	0.34UJ	0.18	2U	202	0.19U
	11/03/1993	1520	277	609	14.3	0.23U	0.42U	3U	183	0.10U
	05/05/1994	643	0[e]	306	2.0	0.27	0.28U	5.1U	164	0.82U
	10/13/1994	960J	55	569	7.5	0.5U	0.5U	3.5U	267	0.3U
	04/27/1995	2610	0[e]	790	12.1	0.5U	0.5U	2.6U	364	0.3U
	10/12/1995	1400	469	220	4.9	No Data	0.5U	No Data	318	0.76U
31SW91-35	04/11/1996	184UJ-	184UJ-	189U	3.4	No Data	6.5	No Data	5630	0.07U
31SW91-50	04/11/1996	3140J-	3140[f]	661	45.1	No Data	26.5	No Data	182000	0.17U
31SW91-55	04/11/1996	41.5J-	7.2	39.9U	1.4U	No Data	0.22	No Data	868	0.11U
36SE91-58	04/11/1996	25.2UJ-	25.2UJ-	39.4U	1.4U	No Data	0.40	No Data	830	0.11U
36SE93-201-2	11/17/1993	No Data	No Data	No Data	No Data	No Data	1.5U	4U	No Data	No Data
	05/05/1994	3790	178	1080	79.0	20.3	0.84	3.5U	1040	1.1
	10/12/1994	5970J	1460	2920	91.0	3.8	0.5U	5.1U	183	2.2
	04/26/1995	3000	43.1	857	17.0	9.0	3.7	6.9U	1270	1.0
	10/12/1995	5000	1110	1040	6.0	No Data	2.2	No Data	876	0.76U
	04/11/1996	4620J-	0[e]	943	17.1	No Data	1.2	No Data	1080	1.2
82-30B	11/18/1992	540.	37	260.	No Data	0.3U	0.3	2U	4030	0.3U
	03/04/1993	540	0[e]	159	2U	0.5U	0.3	2U	3080	0.3U
	03/04/1993	680	112	183	2U	0.5U	0.3	2U	3170	0.3U
	04/21/1993	1130	120	587	10.2	0.34U	0.51	1U	2910	0.24U
	07/27/1993	748J	748[f]	230	4.3	0.35UJ	0.19	1U	3440	0.19U
	11/03/1993	816	85	316	8.2	0.28U	0.75	3U	3380	0.16U
	05/05/1994	209	0[e]	235	2U	0.27	0.25	2.0U	2670	0.57U
	10/13/1994	963J	307	423	6.8	0.5U	0.5U	3.1U	3790	2.5

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[b]Toal gross alpha excluding radon which is lost during analysis.
[c]Gross alpha minus uranium activity. Result rounded as appropriate.
[d]Unvalidated data.
[e]Uranium activity greater than gross alpha.
[f]Uranium activity results were qualified as unusable ("R").

Alluvial Aquifer Radiological Data[a]

Sample Location	Sample Date	Th232 (pCi/L)	U (μg/L)	U234 (pCi/L)	U235 (pCi/L)	U238 (pCi/L)
On-Site						
31SW91-14	03/10/1993	0.3U	2810	863	No Data	901
	04/29/1993	0.42U	2790J	1060	50.2	1090
	07/26/1993	6.8U	3170	1000J	165J	999J
	11/03/1993	0.63U	2880	909J	49.9J	920J
	05/04/1994	2.0U	3210	1120	46.6	1130
	10/13/1994	0.3U	3150	1060	45.4	1070
	04/19/1995	0.3U	4080	1560	75.3	1600
	10/12/1995	No Data	No Data	1290	76.6	1320
	10/12/1995	No Data	No Data	1250	78.5	1320
31SW91-23	11/19/1992	0.3U	1210	385	No Data	382
	03/03/1993	0.88	1130	375	No Data	389
	04/27/1993	4.1U	1670R	588	22.9	592
	07/27/1993	0.14U	2190R	550R	40.7R	605R
	11/03/1993	0.05U	1980	613J	24.5J	606J
	05/05/1994	0.48U	1370	498	26.9	497
	10/13/1994	0.3U	1160	420J	23.0J	462J
	04/27/1995	0.3U	3750	1380	67.1	1430
	10/12/1995	No Data	No Data	446	27.2	458
31SW91-35	04/11/1996	No Data	271	89.7	3.4	90.3
31SW91-50	04/11/1996	No Data	4330	716R	29.8R	727R
31SW91-55	04/11/1996	No Data	53.3	17.6	0.65	16.1
36SE91-58	04/11/1996	No Data	27.3	10	0.27U	8.6
36SE93-201-2	11/17/1993	No Data	5490R	No Data	No Data	No Data
	05/05/1994	0.08U	4850R	1740J	72.2J	1800J
	10/12/1994	0.97	6860R	2180	92.5	2240
	04/26/1995	0.3U	4200R	1450	56.9	1450
	10/12/1995	No Data	No Data	1880	112	1900
	04/11/1996	No Data	6080R	2230J	108J	2290J
82-30B	11/18/1992	0.3U	746	250	No Data	253
	03/04/1993	0.3U	850	286	No Data	295
	03/04/1993	0.3U	847	282	No Data	286
	04/21/1993	0.23U	1490	490	47.4	473
	07/27/1993	0.12U	1060	318R	13.8R	341R
	11/03/1993	0.12U	914	355J	18.0J	358J
	05/05/1994	0.49U	974	341	24.1	351
	10/13/1994	0.3U	900	321	13.1	322

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Alluvial Aquifer Radiological Data[a]

Sample Location	Sample Date	Alpha[b] (pCi/L)	Alpha-U[c] (pCi/L)	Beta (pCi/L)	Pb210 (pCi/L)	Po210 (pCi/L)	Ra226 (pCi/L)	Ra228 (pCi/L)	Rn222[d] (pCi/L)	Th230 (pCi/L)
On-Site										
82-30B	04/26/1995	778	0[e]	262	5.8	0.5U	0.76	3.5U	2960	0.3U
	10/10/1995	700	0[e]	200	1.7	No Data	0.5U	No Data	3550	0.76U
	04/11/1996	729J-	138	155	2.1U	No Data	0.44	No Data	2330	0.08U
	04/11/1996	787J-	223	142	9.2	No Data	0.37	No Data	2300	0.09U
82-31B-E	11/04/1993	162U	162U	193U	2U	0.26U	0.41U	3U	1190	0.18U
	05/09/1994	56U	56U	49U	2U	0.12U	0.04U	3.0U	639	0.13U
	10/12/1994	122U	122U	101U	2U	0.5U	0.5U	2.4U	1160	0.3U
	04/18/1995	85U	85U	73U	2U	0.5U	0.5UJ	3.1U	1150	0.3U
	10/11/1995	90U	90U	70U	1.4U	No Data	0.5U	No Data	1390	0.76U
82-31B-W	11/11/1992	40	5.6	20U	No Data	0.5U	0.1U	2U	1150	0.3U
	03/02/1993	36U	36U	21U	2U	0.5U	0.2	2U	1140	0.3U
	03/02/1993	46	20.3	21U	2U	0.5U	0.1	1U	1030	0.3U
	04/29/1993	74	0[e]	41U	2U	0.25U	0.30	3U	1030	0.14U
	07/27/1993	63UJ	63UJ	51U	2U	0.26UJ	0.29	2U	1010	0.11U
82-36A	11/17/1992	2300	576	760	No Data	2.6	10.4	4U	5670	0.6U
	03/10/1993	2030	0[e]	629	13.4	2.3	10.8	7U	7820	0.6U
	04/27/1993	2970	197	1490	6.0	1.0	7.3	5U	9280	3.6U
	07/27/1993	2720J	295	680	2U	1.8J	8.2	3U	13100	3.2U
82-40A	11/12/1992	3000	130	450	No Data	1.1	7.0	3U	10600	1.0
	03/04/1993	881	17	286	6.3	1.5	5.7	3U	28700	0.42
	04/29/1993	1280	269	610	2U	1.6	0.20U	3U	18900	1.1U
	07/28/1993	5060J	2220	856	28.4	2.6J	12.0	4U	28200	3.3U
	07/28/1993	4320J	4320	773	55.2	2.4J	12.5	4U	27600	0.24U
	11/03/1993	9780	9780[f]	3300	34.9	2.9	16.1	5U	59700	1.6U
	05/04/1994	51U	51U	49U	31.6	0.11U	9.2	5.9U	176	1.5U
	10/13/1994	6870J	393	4230	49.7	4.2	11.3	6.6U	78500	0.3U
	10/13/1994	7540J	1700	4190	26.1	3.5	11.6	8.0U	74700	0.3U
	04/26/1995	2250	609	519	10.3	0.85	12.0	6.0U	47000	0.3U
	04/26/1995	2050	417	492	7.0	0.73	12.3	6.7U	47200	0.3U
	10/11/1995	7000	2140	1120	13.1	No Data	14.8	No Data	54200	0.76U
82-42	11/19/1992	50.U	50.U	40.U	No Data	0.3U	2.9	2U	973	0.3U
	03/03/1993	39	3.3	19.8U	2U	0.5U	1.6	2U	1720	0.34
	04/28/1993	33U	33U	20U	2U	0.24U	0.79	3U	1320	0.22U
	04/28/1993	34	.2	20.9	2U	0.29U	0.98	3U	1330	0.16U
	07/28/1993	32UJ	32UJ	21U	2U	0.36UJ	0.38	2U	1340	0.12UJ
	11/03/1993	26U	26U	32U	2U	0.11U	0.29	2U	1080	0.07U

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[b]Toal gross alpha excluding radon which is lost during analysis.
[c]Gross alpha minus uranium activity. Result rounded as appropriate.
[d]Unvalidated data.
[e]Uranium activity greater than gross alpha.
[f]Uranium activity results were qualified as unusable ("R").

Alluvial Aquifer Radiological Data[a]

Sample Location	Sample Date	Th232 (pCi/L)	U (μg/L)	U234 (pCi/L)	U235 (pCi/L)	U238 (pCi/L)
On-Site						
82-30B	04/26/1995	0.3U	965	379	17.8	382
	10/10/1995	No Data	No Data	340	17.1	353
	04/11/1996	No Data	874	289J	12.4J	290J
	04/11/1996	No Data	870	274J	12.3J	278J
82-31B-E	11/04/1993	0.13U	26.6	23.5	0.17U	8.3
	05/09/1994	0.13U	25.6	17.4	0.11U	8.6
	10/12/1994	0.3U	23.6	23.9	0.57	9.0
	04/18/1995	0.3U	21.6	16.3	0.39	7.9
	10/11/1995	No Data	No Data	21.5	1.0U	9.6J
82-31B-W	11/11/1992	0.3U	21.7	17.8	No Data	16.6
	03/02/1993	0.3U	56.9	14.3	No Data	11.3
	03/02/1993	0.3U	44.0	14.6	No Data	11.1
	04/29/1993	0.14U	111J	41.4	3.5	37.4
	07/27/1993	0.07U	46.4	22.6	1.8	18.1
82-36A	11/17/1992	0.4U	2940R	861	No Data	863
	03/10/1993	0.5U	3570R	1150	No Data	1200
	04/27/1993	3.6U	3980J	1350	72.6	1350
	07/27/1993	3.0U	3490R	1160J	135J	1130J
82-40A	11/12/1992	0.3U	4440	1440	No Data	1430
	03/04/1993	0.46	1520	415	No Data	449
	04/29/1993	0.92U	1390J	497	19.9	494
	07/28/1993	1.9U	4130	1340J	194J	1310J
	07/28/1993	0.14U	3960	0.90J	0.01J	0.19J
	11/03/1993	1.0U	12600	4100R	163R	4290R
	05/04/1994	1.4U	5400	1820	81.2	1830
	10/13/1994	0.3U	10900	3130J	147J	3200J
	10/13/1994	0.3U	10200	2840	124	2880
	04/26/1995	0.3U	2330	776	37.8	827
	04/26/1995	0.3U	2400	781	38.3	814
	10/11/1995	No Data	No Data	2350	113	2400
82-42	11/19/1992	0.3U	53.4	19.1	No Data	17.3
	03/03/1993	0.3U	63.3	18.3	No Data	17.4
	04/28/1993	0.22U	40.1J	17.8	2.4	16.1
	04/28/1993	0.13U	39.9J	16.7	1.6	15.5
	07/28/1993	0.10UJ	37.2	14.9	0.44U	12.8
	11/03/1993	0.07U	29.6	11.4	0.14U	9.9

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Alluvial Aquifer Radiological Data[a]

Sample Location	Sample Date	Alpha[b] (pCi/L)	Alpha-U[c] (pCi/L)	Beta (pCi/L)	Pb210 (pCi/L)	Po210 (pCi/L)	Ra226 (pCi/L)	Ra228 (pCi/L)	Rn222[d] (pCi/L)	Th230 (pCi/L)
On-Site										
82-42	05/09/1994	43	10.9	20U	2U	0.08U	0.22	1.5U	1280	0.14U
	05/09/1994	32U	32U	20U	2.3	0.14U	0.23	1.3U	1370	0.16U
	10/13/1994	50U	50U	40U	2U	0.5U	0.5U	2.0U	1510	0.3U
	04/18/1995	56	15.9	29U	2U	0.5U	0.5U	2.8U	1500	0.3U
	10/11/1995	30U	30U	20U	1.3U	No Data	0.5U	No Data	1560	0.76U
Downgradient										
82-07	11/04/1992	340	38	110	No Data	6.9	0.1	2U	532	0.3U
	03/16/1993	308	0[e]	114	2U	0.15U	0.1	2U	1040	0.3U
	04/28/1993	387	0[e]	207	9.0	0.27U	0.28U	3U	1010	1.9U
	07/29/1993	369J	0[e]	113	8.8	0.42UJ	0.33	2U	967	6.6U
	11/02/1993	302	0[e]	187	4.1	0.14U	0.43U	2U	557	0.46U
	05/10/1994	209	0[e]	124	3.6	0.11U	0.05U	2.6U	842	0.54U
	10/10/1994	298J	13.6	124	2U	0.5U	0.5U	1.7U	1020	0.3U
	04/25/1995	256	0[e]	66	2U	0.5U	0.5U	2.5U	819	0.3U
	10/09/1995	210	0[e]	110	1.3U	No Data	0.5U	No Data	749	0.76U
88-85	11/05/1992	200	0[e]	40	No Data	0.5U	0.1U	2U	730	0.3U
	03/01/1993[f]	321	12	90	2U	0.5U	0.1	1U	4580	0.3U
	04/27/1993	655	143	282	18.3	0.72	0.07U	4U	10600	0.08U
	07/21/1993	462J	0[e]	165	5.2	6.3R	0.19	2U	7810	3.4U
	07/21/1993	528J	528[g]	165	6.4	0.02U	0.11U	1U	7870	0.32U
	11/02/1993	395	0[e]	155	2.7	0.21U	1.3U	2U	2380	0.76UJ
	05/03/1994	426	44.1	156	2U	0.11U	0.10	1.5U	2960	0.67U
	10/06/1994	307J	1.6	210	2U	0.5U	0.5U	2.4U	2030	0.3U
	04/18/1995	529	84.5	105	4.6	0.5U	0.5U	2.9U	5940	0.3U
	10/06/1995	320	0[e]	130	2.6U	No Data	0.5U	No Data	2130	0.76U
	10/06/1995	300	0[e]	100	2U	No Data	0.5U	No Data	2050	0.76U
92-07	11/05/1992	600	99	120	No Data	0.5U	0.1	1U	1050	0.3U
	03/16/1993	836	62	256	2U	0.19U	0.1	2U	1170	0.3U
	04/28/1993	746	0[e]	561	15.8	0.32U	0.06U	3U	1190	0.30U
	07/29/1993	338J	0[e]	114	6.9	0.30UJ	0.08U	2U	2110	2.6U
	11/02/1993	1010	129	380	21.0	0.13U	0.20U	3U	601	0.51U
	05/10/1994	1070	231	330	10.6	0.12U	0.04U	1.6U	1140	1.2U
	10/10/1994	867J	188	384	3.6	0.5U	0.5U	1.7U	1060	0.3U
	04/25/1995	1050	83.4	267	5.2	0.5U	0.5U	2.8U	1100	0.3U

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[b]Toal gross alpha excluding radon which is lost during analysis.
[c]Gross alpha minus uranium activity. Result rounded as appropriate.
[d]Unvalidated data.
[e]Uranium activity greater than gross alpha.
[f]Evaluation and investigation of anomalous data points has determined that the 3/31/93 samples from wells 88-85 and 83-70 were inadvertently switched in the laboratory. Results have been corrected; however, the corrected results were not used in any statistical calculations.
[g]Uranium activity results were qualified as unusable ("R").

Alluvial Aquifer Radiological Data[a]

Sample Location	Sample Date	Th232 (pCi/L)	U (μg/L)	U234 (pCi/L)	U235 (pCi/L)	U238 (pCi/L)
On-Site						
82-42	05/09/1994	0.10U	42.5	17.0	0.63	14.5
	05/09/1994	0.17U	41.8	16.8	0.57	14.4
	10/13/1994	0.3U	37.1	15.4	0.59	14.1
	04/18/1995	0.3U	48.9	20.9	1.2	18.0
	10/11/1995	No Data	No Data	15.1	1.3J	16.0
Downgradient						
82-07	11/04/1992	0.3U	535	151	No Data	151
	03/16/1993	0.3U	491	175	No Data	178
	04/28/1993	1.8U	552J	223	13.5	209
	07/29/1993	5.0U	571	205J	13.8UJ	219J
	11/02/1993	0.31U	467	156	6.6	159
	05/10/1994	0.51U	376	142	5.4	143
	10/10/1994	0.3U	396	134	5.4	145
	04/25/1995	0.3U	404	153	7.8	151
	10/09/1995	No Data	No Data	142	8.0J	138
88-85	11/05/1992	0.3U	413R	113	No Data	115
	03/01/1993[b]	0.3U	490	155	No Data	154
	04/27/1993	0.07U	690J	245	10.6	256
	07/21/1993	2.9U	659	245J	11.0UJ	243J
	07/21/1993	0.31U	670	233R	19.6R	236R
	11/02/1993	0.49UJ	563	192	8.7	200
	05/03/1994	0.64U	514	182	13.9	186
	10/06/1994	0.3U	460	150J	7.4J	148J
	04/18/1995	0.3U	571	215	13.5	216
	10/06/1995	No Data	No Data	184	9.5J	202
	10/06/1995	No Data	No Data	182	9.8J	203
92-07	11/05/1992	0.3U	717	259	No Data	242
	03/16/1993	0.3U	1080	386	No Data	388
	04/28/1993	0.33U	1420J	463	18.5	469
	07/29/1993	2.4U	678	268J	16.8UJ	288J
	11/02/1993	0.46U	1330	421J	16.7J	443J
	05/10/1994	1.2U	1280	400	18.6	420
	10/10/1994	0.3U	942	330	13.8	335
	04/25/1995	0.3U	1300	468	22.6	476

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[b]Evaluation and investigation of anomalous data points has determined that the 3/31/93 samples from wells 88-85 and 83-70 were inadvertently switched in the laboratory. Results have been corrected; however, the corrected results were not used in any statistical calculations.

Alluvial Aquifer Radiological Data[a]

Sample Location	Sample Date	Alpha[b] (pCi/L)	Alpha-U[c] (pCi/L)	Beta (pCi/L)	Pb210 (pCi/L)	Po210 (pCi/L)	Ra226 (pCi/L)	Ra228 (pCi/L)	Rn222[d] (pCi/L)	Th230 (pCi/L)
Downgradient										
92-07	10/09/1995	930	0[e]	270	4.0	No Data	0.5U	No Data	1090	0.76U
92-08	11/05/1992	370	0[e]	100	No Data	0.5U	0.1	2U	720	0.71
	03/11/1993	366	0[e]	200	2U	0.09U	0.1	2U	960	0.3U
	04/28/1993	440	0[e]	285	3.3	0.16U	0.41U	7U	1120	0.44U
	07/29/1993	492J	10	148	4.7	0.32UJ	0.14	2U	1330	2.7U
	11/04/1993	398	0[e]	156	3.2	0.06U	0.09U	2U	1230	1.1U
	05/09/1994	333	0[e]	254	6.9	0.10U	0.07U	1.5U	1140	0.46U
	10/07/1994	321J	0[e]	206	4.3	0.5U	0.5U	1.4U	1190	0.3U
	04/25/1995	456	0[e]	120	2U	0.5U	0.5U	3.0U	1160	0.3U
	04/25/1995	416	0[e]	106	2.2	0.5U	0.5U	2.1U	1260	0.3U
	10/10/1995	360	0[e]	120	3.7	No Data	0.5U	No Data	1360	0.76U
92-09	11/10/1992	410	120	40	No Data	0.5U	0.1	2U	196	0.34
	03/15/1993	309	20	94	2U	0.09U	0.4U	2U	490	0.3U
	04/22/1993	300	43.7	125	2U	0.15U	0.06U	1U	614	0.38
	07/22/1993	319J	319[f]	115	2U	0.18U	0.12U	2U	861	0.14U
	10/28/1993	304	50.7	100	2U	0.09U	0.03U	3U	456	0.19U
	10/28/1993	353	80.6	111	2U	0.31UJ	0.32	2U	524	0.08U
	05/10/1994	239	23.1	75	2U	0.12U	0.02U	1.8U	425	0.24U
	10/05/1994	213J	0[e]	148	2U	0.5U	0.5UJ	3.2U	358	0.3U
	10/05/1994	227J	24.2	151	2U	0.5U	0.5U	3.1U	369	0.3U
	04/24/1995	168	0[e]	54	2U	0.5U	0.5U	2.2U	525	0.3U
	04/24/1995	149	0[e]	42	2U	0.5U	0.5U	2.0U	583	0.3U
	10/04/1995	180	0[e]	60	2U	No Data	0.5U	No Data	496	0.76U
	04/09/1996	173J-	15.1	49.0U	1.3U	No Data	0.12	No Data	314	0.07U
92-11	11/10/1992	600	0[e]	120	No Data	0.5U	0.1	2U	856	0.91
	11/10/1992	600	0[e]	110	No Data	0.5U	0.1U	1U	926	0.92
	03/12/1993	1400	135	428	11.9	0.12U	0.1U	2U	1070	0.3U
	04/26/1993	2300	305	1040	18.4	0.15U	0.09U	4U	978	0.11U
	04/26/1993	2030	55.5	1040	6.0	0.14U	0.14U	2U	973	0.11U
	11/04/1993	1240	333	416	3.9	0.16U	0.20U	2U	947	1.0U
	05/03/1994	1280	234	346	12.9	0.13U	0.06U	1.6U	1150	1.3U
	05/03/1994	1140	113	330	8.9	0.23	0.04U	1.0U	990	0.88U
	10/06/1994	862J	0[e]	547	36.8	0.5U	0.5U	2.3U	1030	0.3U
	04/20/1995	2330	873	478	9.7	0.5U	0.5U	3.5U	933	0.3U
	10/06/1995	1900	769	400	2U	No Data	0.5U	No Data	829	0.76U
	04/10/1996	1390J-	1390[f]	282	1.9U	No Data	0.11	No Data	747	0.11U

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[b]Toal gross alpha excluding radon which is lost during analysis.
[c]Gross alpha minus uranium activity. Reuslt rounded as appropriate.
[d]Unvalidated data.
[e]Uranium activity greater than gross alpha.
[f]Uranium activity results were qualified as unusable ("R").

Alluvial Aquifer Radiological Data[a]

Sample Location	Sample Date	Th232 (pCi/L)	U (μg/L)	U234 (pCi/L)	U235 (pCi/L)	U238 (pCi/L)
Downgradient						
92-07	10/09/1995	No Data	No Data	433	24.7	475
92-08	11/05/1992	0.3U	578	211	No Data	211
	03/11/1993	0.3U	636	227	No Data	223
	04/28/1993	0.32U	632J	256	11.4	245
	07/29/1993	2.3U	713	235J	9.0UJ	247J
	11/04/1993	0.97U	578	207	9.1	206
	05/09/1994	0.44U	647	227	8.4	215
	10/07/1994	0.3U	459	169	6.6	172
	04/25/1995	0.3U	594	237	10.7	224
	04/25/1995	0.3U	588	227	9.6	223
	10/10/1995	No Data	No Data	242	12.7	255
92-09	11/10/1992	0.3U	395	147	No Data	143
	03/15/1993	0.3U	412	144	No Data	145
	04/22/1993	0.16	351	128	6.3	122
	07/22/1993	0.13U	431	167R	16.5R	159R
	10/28/1993	0.16U	369	126	5.3	122
	10/28/1993	0.06U	365	134	11.4	127
	05/10/1994	0.15U	306	110	3.9	102
	10/05/1994	0.3U	291	107	4.7	104
	10/05/1994	0.3U	282	101	4.3	97.5
	04/24/1995	0.3U	256	96.7	4.8	94.1
	04/24/1995	0.3U	255	94.0	3.9	91.7
	10/04/1995	No Data	No Data	89.6	4.2J	87.5
	04/09/1996	No Data	244	77.3	3.7	76.9
92-11	11/10/1992	0.3U	820	304	No Data	317
	11/10/1992	0.3U	819	311	No Data	317
	03/12/1993	0.3U	2620	624	No Data	641
	04/26/1993	0.08U	2870J	968	41.3	986
	04/26/1993	0.09U	2720J	949	51.5	974
	11/04/1993	0.86U	1370	420J	25.9J	461J
	05/03/1994	1.0U	1500	508	22.8	515
	05/03/1994	0.75U	1430	492	30.1	505
	10/06/1994	0.3U	1560	462	21.8	458
	04/20/1995	0.3U	2050	708	27.7	721
	10/06/1995	No Data	No Data	559	26.1	546J
	04/10/1996	No Data	1560	447R	19.7R	462R

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Alluvial Aquifer Radiological Data[a]

Sample Location	Sample Date	Alpha[b] (pCi/L)	Alpha-U[c] (pCi/L)	Beta (pCi/L)	Pb210 (pCi/L)	Po210 (pCi/L)	Ra226 (pCi/L)	Ra228 (pCi/L)	Rn222[d] (pCi/L)	Th230 (pCi/L)
Downgradient										
95-01	02/13/1996	13.3UJ	13.3UJ	12.2U	0.63	No Data	2.8	No Data	977	0.80U
	04/08/1996	9.8J-	8.9	9.5U	1.2U	No Data	3.2	No Data	990	0.07U
	07/23/1996	4.8	4.1	4.6	1.2U	No Data	2.2	No Data	634	0.04
	07/23/1996	6.7	6.1	4.6U	1.2U	No Data	2.2	No Data	659	0.03
95-03	02/13/1996	39.7UJ	39.7UJ	40.1U	1.7	No Data	1.9	No Data	171	0.80U
	02/13/1996	39.3UJ	39.3UJ	40.0U	1.6	No Data	1.9	No Data	176	0.80U
	04/09/1996	26.1UJ-	26.1UJ-	30.9U	1.2U	No Data	2.4	No Data	207	0.08U
	07/24/1996	9.1U	9.1U	11.5U	1.2U	No Data	2.6	No Data	184	0.06
P92-02	10/10/1995	110	50.3	40U	1.3U	No Data	0.5U	No Data	471	0.76U
	02/14/1996	84.1UJ	84.1UJ	81.2U	0.43	No Data	0.35	No Data	367	0.80U
	07/25/1996	88.1	38.1	23.4U	1.2U	No Data	0.17	No Data	313	0.03
P92-04	10/09/1995	60U	60U	40U	1.4U	No Data	0.5U	No Data	713	0.76U
	02/14/1996	64.5UJ	64.5UJ	50.4U	0.36	No Data	0.12	No Data	49	0.80U
	04/10/1996	46.5UJ-	46.5UJ-	47.0U	1.2U	No Data	0.85	No Data	329	0.07U
	07/26/1996	18.0	0[e]	15.5U	1.2U	No Data	0.21	No Data	555	0.07
P92-09	10/12/1995	120	26.5	70U	1.4U	No Data	0.53	No Data	336	0.76U
	07/25/1996	106	24.6	31.1U	1.3U	No Data	0.24	No Data	319	0.04

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[b]Toal gross alpha excluding radon which is lost during analysis.
[c]Gross alpha minus uranium activity. Result rounded as appropriate.
[d]Unvalidated data.
[e]Uranium activity greater than gross alpha.

Alluvial Aquifer Radiological Data[a]

Sample Location	Sample Date	Th232 (pCi/L)	U (µg/L)	U234 (pCi/L)	U235 (pCi/L)	U238 (pCi/L)
Downgradient						
95-01	02/13/1996	No Data	No Data	1.0	1.1U	1.1U
	04/08/1996	No Data	1.3J	0.59	0.05U	0.30
	07/23/1996	No Data	0.58J	0.39	0.02	0.25
	07/23/1996	No Data	0.42J	0.37	0.04U	0.25
95-03	02/13/1996	No Data	No Data	2.9	1.1U	2.4
	02/13/1996	No Data	No Data	1.0U	1.1U	2.3
	04/09/1996	No Data	6.2	3.8	0.63	2.5
	07/24/1996	No Data	5.9	2.2	0.07	2.1
P92-02	10/10/1995	No Data	No Data	31.2	1.8J	26.7
	02/14/1996	No Data	No Data	30.7J	1.1U	27.7
	07/25/1996	No Data	66.2	25.8	1.7	22.5
P92-04	10/09/1995	No Data	No Data	24.8	1.3J	16.2
	02/14/1996	No Data	No Data	12.0	1.1U	9.8
	04/10/1996	No Data	27.3	11.5	0.50	9.1
	07/26/1996	No Data	31.5	12.8	0.49	10.5
P92-09	10/12/1995	No Data	No Data	48.0	2.5J	43.0
	07/25/1996	No Data	119	43.2	1.6	36.6

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Appendix C–3

Bedrock Groundwaters Data

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Bedrock Groundwaters Field Measurements Data

Sample Location	Sample Date	Alkalinity (ppm)	Conductivity (μmhos/cm)	DO (mg/L)	Eh (mV)	pH	Temp (deg C)	Turbidity (NTU)
Reference								
06NW93-104-5	11/23/1993	163	411	No Data	No Data	7.43	11.4	No Data
31SW93-197-5	11/19/1993	455	2770	No Data	No Data	6.80	10.3	No Data
	11/19/1993	No Data	No Data	No Data	No Data	No Data	No Data	No Data
Reference - West of 191								
92-02	12/09/1992	150	314	0.65	214	6.77	11.4	4.72
	03/16/1993	153	No Data	No Data	No Data	6.66	13.1	1.74
	04/20/1993	158	402	1.23	100	7.44	10.5	0.84
	07/19/1993	97	395	2.05	31	6.81	11.0	0.82
	10/28/1993	149	396	1.93	33	6.96	10.7	0.46
	05/03/1994	159	396	1.16	-40	7.32	10.3	0.31
	10/03/1994	174	395	1.33	17	7.21	10.4	1.20
	04/17/1995	147	3950	1.48	25	7.28	10.0	0.63
	10/02/1995	128	384	0.62	69	7.68	10.4	0.77
92-04	11/19/1992	208	475	3.7	108	7.43	10.2	2.78
	03/08/1993	207	672	1.70	-16.0	7.26	10.8	0.44
	04/20/1993	202	672	1.36	-109	7.35	10.8	0.48
	04/20/1993	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	07/20/1993	243	646	4.90	-43	6.98	11.8	1.11
	10/29/1993	208	657	2.52	-12	7.08	10.5	0.72
	10/29/1993	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/26/1994	154	646	0.81	-16	7.08	10.4	0.97
	10/04/1994	211	641	1.60	71	7.19	11.2	1.36
	04/20/1995	213	640	2.83	126	6.98	10.2	1.56
	10/04/1995	209	624	1.40	32	7.28	10.7	0.48
92-06	11/23/1992	258	371	4.6	129	No Data	9.5	9.56
	03/09/1993	215	553	5.20	223	7.66	10.0	1.20
	04/21/1993	190	553	4.80	55	7.42	10.2	1.99
	07/20/1993	153	529	4.71	41	7.16	10.8	0.47
	07/20/1993	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	10/25/1993	182	558	5.15	54	7.17	10.0	0.46
	04/26/1994	130	558	4.75	17	7.73	9.8	0.64
	10/06/1994	237	559	5.12	0.50	7.06	10.0	1.13
	04/20/1995	214	562	5.64	52	7.46	9.8	1.38
	10/03/1995	212	545	6.17	4	7.86	10.2	2.16

Bedrock Groundwaters Field Measurements Data

Sample Location	Sample Date	Alkalinity (ppm)	Conductivity (μmhos/cm)	DO (mg/L)	Eh (mV)	pH	Temp (deg C)	Turbidity (NTU)
Reference - West of 191								
92-13	11/02/1993	251	854	No Data	No Data	10.74	9.2	>1000
	05/02/1994	214	805	No Data	No Data	10.99	9.7	>1000
	10/12/1994	284	751	No Data	No Data	9.80	10.1	No Data
	04/24/1995	318	678	No Data	No Data	9.64	9.7	66.0
	10/10/1995	299	700	No Data	No Data	9.36	10.6	>1000
On-Site								
31SW93-200-1	11/16/1993	195	578	No Data	No Data	7.68	12.9	No Data
31SW93-200-2	11/17/1993	483	944	No Data	No Data	7.67	11.5	No Data
31SW93-200-3	11/17/1993	191	5140	No Data	No Data	7.93	9.3	No Data
31SW93-202-2	11/15/1993	392	3530	No Data	No Data	6.65	10.5	No Data
31SW93-203-2	11/16/1993	430	3650	No Data	No Data	6.62	11.7	No Data
31SW93-204-2	11/16/1993	519	5520	No Data	No Data	6.48	11.9	No Data
	11/16/1993	No Data	No Data	No Data	No Data	No Data	No Data	No Data
84-75	12/09/1992	235	424	1.13	198	7.02	10.4	4.28
	03/10/1993	235	624	3.71	190	7.79	10.3	2.18
	04/29/1993	284	619	0.66	-64	7.78	10.8	1.86
	07/28/1993	214	600	2.66	108	7.63	11.2	1.27
84-76	11/18/1992	189	348	2.4	-92.3	7.99	10.5	1.49
	03/03/1993	194	498	4.53	182.7	7.87	10.4	1.30
	04/28/1993	178	480	7.09	-75	7.36	11.2	2.52
	07/27/1993	186	478	3.08	-63	7.30	11.4	0.93
84-77	11/11/1992	213	393	6.91	215	7.19	9.7	2.26
	03/02/1993	185	595	1.90	34.7	7.13	9.8	2.03
	04/27/1993	225	596	0.33	-44	7.24	10.0	1.88
	07/27/1993	149	571	1.16	14	6.82	10.4	4.66
93-01	11/01/1993	200	644	1.07	-36	7.43	9.7	0.47
	05/06/1994	212	598	0.62	-117	7.49	10.1	0.49
	10/12/1994	172	597	1.22	85	6.96	10.3	No Data
	04/27/1995	196	596	0.86	95	7.47	9.9	1.43
	10/05/1995	232	579	0.57	31	7.50	10.1	1.00
	04/12/1996	224	596	0.20	74	7.46	11.3	3.69

Bedrock Groundwaters Field Measurements Data

Sample Location	Sample Date	Alkalinity (ppm)	Conductivity (μmhos/cm)	DO (mg/L)	Eh (mV)	pH	Temp (deg C)	Turbidity (NTU)
Crossgradient								
06NW93-206-3	12/02/1993	No Data	988	No Data	No Data	8.76	9.2	No Data
31NE93-205	05/11/1994	161	1215	0.08	-78	6.79	13.8	0.95
	10/11/1994	144	1196	0.38	-188	6.36	14.2	0.47
	04/20/1995	152	1215	0.23	16	6.39	13.3	0.81
	10/17/1995	189	1100	0.67	-075	6.65	14.3	1.95
31SW93-197-2	11/22/1993	232	514	No Data	No Data	7.48	12.4	No Data
31SW93-197-3	12/03/1993	300	558	No Data	No Data	7.58	13.3	No Data
95-07	02/14/1996	1330	2220	No Data	No Data	8.63	11.0	>1000
	04/12/1996	No Data	2270	No Data	No Data	7.99	11.6	>1000
	07/25/1996	1307	2291	0.98	-110	7.87	17.8	298
Downgradient								
83-70	11/17/1992	211	428	6.4	148	7.40	10.4	2.58
	11/17/1992	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	03/01/1993[a]	205	618	0.92	-28.7	7.41	10.1	0.78
	04/27/1993	230	617	0.23	-75	7.43	10.3	0.27
	07/21/1993	184	592	1.21	-92	7.29	10.8	0.45
	11/02/1993	210	622	0.45	-91	7.25	10.5	4.77
	05/10/1994	236	620	0.78	17	7.47	11.5	1.04
	10/11/1994	152	620	0.60	-094	6.86	11.6	0.41
	04/25/1995	212	619	0.40	-87	7.57	10.5	0.18
	10/11/1995	182	606	0.30	-43	7.52	10.6	0.65
84-74	11/04/1992	209	452	1.56	187.5	7.62	10.3	3.35
	03/11/1993	241	630	0.91	85	7.11	10.1	4.86
	04/23/1993	228	643	0.36	-83	7.14	10.3	2.86
	07/21/1993	179	611	0.94	-10	7.02	10.8	4.65
92-10	11/16/1992	184	466	4.0	241	7.23	9.9	1.86
	03/15/1993	250	719	9.10	74	7.36	9.7	1.22
	04/22/1993	230	738	6.42	-21	7.24	10.0	8.96
	07/22/1993	154	679	5.70	-42	7.06	10.0	8.38
	10/28/1993	176	700	No Data	-38	7.22	9.8	2.83
	05/09/1994	184	718	8.70	-7	7.54	9.6	23.1
	10/05/1994	201	725	0.87	-47	6.84	9.7	2.48
	04/24/1995	193	725	0.86	-53	7.32	9.9	2.15
	10/04/1995	205	734	0.40	-55	7.49	9.8	3.36

[a]Evaluation and investigation of anomalous data points has determined that the 3/31/93 samples from wells 88-85 and 83-70 were inadvertently switched in the laboratory. Results have been corrected; however, the corrected results were not used in any statistical calculations.

Bedrock Groundwaters Field Measurements Data

Sample Location	Sample Date	Alkalinity (ppm)	Conductivity (μmhos/cm)	DO (mg/L)	Eh (mV)	pH	Temp (deg C)	Turbidity (NTU)
Downgradient								
92-10	10/04/1995	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	04/09/1996	195	720	0.59	-065	7.21	10.0	2.52
92-12	11/02/1993	190	825	No Data	No Data	7.15	10.0	121
	05/03/1994	254	867	No Data	No Data	7.48	9.7	85
	10/12/1994	278	779	No Data	No Data	7.60	10.8	>1000
	04/27/1995	243	748	No Data	No Data	7.70	9.7	285
	10/10/1995	319	763	No Data	No Data	7.65	10.7	338.0
	04/12/1996	2900	766	No Data	No Data	7.57	10.7	40.5
95-02	02/12/1996	177	611	0.17	228	7.52	11.3	2.17
	04/08/1996	174	614	0.41	-33	7.17	11.8	3.82
	04/08/1996	No Data	No Data	No Data	No Data	No Data	No Data	No Data
	07/23/1996	200	592	0.12	-75	7.10	14.5	1.01
95-04	02/13/1996	236	1735	0.24	230	7.06	11.0	1.70
	04/09/1996	223	1767	0.33	70	7.00	11.7	3.02
	07/24/1996	300	1687	0.12	-14	7.00	12.4	1.34
95-06	02/13/1996	292	1408	No Data	244	7.36	14.3	22.9
	04/10/1996	300	1913	2.54	173	7.27	13.9	4.90
	07/26/1996	335	2080	0.63	73	6.98	15.0	6.68
95-08	02/15/1996	167	460	1.24	235	7.56	13.7	3.97
	04/10/1996	262	618	0.32	108	7.61	13.1	3.66
	07/24/1996	277	587	0.28	43	7.65	15.5	2.12

Bedrock Groundwaters Common Ions Data[a]

Sample Location	Sample Date	Ca (mg/L)	Cl[b] (mg/L)	F[b] (µg/L)	Hardness (mg/L)	K (mg/L)	Mg (mg/L)	Na (mg/L)	NH_4[b] (µg/L)	NO_2[b] (µg/L)
Reference										
06NW93-104-5	11/23/1993	44.1	1.37	180B	141	1.86J	7.6	27.3	No Data	No Data
31SW93-197-5	11/19/1993	344	97.4	194B	1130	4.65J	66.4	231	No Data	No Data
	11/19/1993	344	95.7	194B	1130	3.64J	66.2	231	No Data	No Data
Reference - West of 191										
92-02	12/09/1992	66.2	1.21	141B	203	2.13J	9.13	10.9	78	6.0U
	03/16/1993	60.8	1.19	135B	187	1.54J	8.48	11.2J	76.0	2.0U
	04/20/1993	60	1.1	142B	184	1.27	8.25	10.5	72.0	2.0U
	07/19/1993	57.4	1.08	117B	176	1.21J	7.9	10.1	78.0	10.8B
	10/28/1993	58.5	1.2	119B	180	1.11J	8.13	10.7J	51.7	No Data
	05/03/1994	57.5	1.1	126BN	179	1.4J	8.5	10.8	96.3	No Data
	10/03/1994	57.3	1.14	79.3B	177	.672U	8.19	10.8	68.8	No Data
	04/17/1995	57.7	1.08	137B	176	1.39J	7.86	10.5	72.4	No Data
	10/02/1995	57.9	1.08	139B	179	1.47U	8.25	10.8	55.1	No Data
92-04	11/19/1992	75.7	2.95	156B	241	2.64J	12.6	43.6	125	6.0U
	03/08/1993	76.7	2.7	125B	243	2.52J	12.6	47.7J	230	7.4B
	04/20/1993	76.6	2.76	120B	243	2.46	12.6	45.2	179	9.1B
	04/20/1993	75	5.48	121B	238	1.82	12.2	44.8	176	10.4B
	07/20/1993	77.3	2.63	125B	244	2.28J	12.4	45.7	165	6.6B
	10/29/1993	76.8	2.76	155B	242	1.8J	12.3	47.4J	180	No Data
	10/29/1993	77.1	2.79	97.9B	244	2.37J	12.4	47.7J	164	No Data
	04/26/1994	74.2	2.7	132BN	235	2.5J	12.0	45.5	187	No Data
	10/04/1994	69.8	2.73	120B	222	1.76J	11.5	44.7	204	No Data
	04/20/1995	71.5	2.7	165B	226	1.67J	11.5	45.2	197	No Data
	10/04/1995	73.2	2.74	178B	233	2.4J	12.1	47.3	171	No Data
92-06	11/23/1992	68	2	113B	213	2.86J	10.4	30.5	106	6.0U
	03/09/1993	68.1	1.81	109B	213	1.16J	10.5	31J	192	2.0U
	04/21/1993	70.3	1.82	125B	220	2.35	10.7	30.7	188	2.0U
	07/20/1993	69.6	1.9	126B	217	1.45J	10.5	30.2	168	4.0U
	07/20/1993	68.5	1.85	112B	214	1.56J	10.4	29.6	151	4.0U
	10/25/1993	71.7	1.84	156B	223	1.86J	10.6	32.1J	157	No Data
	04/26/1994	70.9	1.8	126BN	220	1.8J	10.5	30.1	171	No Data
	10/06/1994	69.9	1.9	107B	219	1.46J	10.8	31.6	306	No Data
	04/20/1995	69	1.87	110B	215	1.87J	10.4	30.9	205	No Data
	10/03/1995	68.8	1.85	137B	216	1.95J	10.8	32	156	No Data

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value.

Bedrock Groundwaters Common Ions Data[a]

Sample Location	Sample Date	NO_3 ($\mu g/L$)	NO_3+NO_2 ($\mu g/L$)	NO_3+NO_2-N ($\mu g/L$)	SO_4 (mg/L)	TDS (mg/L)
Reference						
06NW93-104-5	11/23/1993	No Data	168B	No Data	48	400B
31SW93-197-5	11/19/1993	No Data	6620	No Data	935	2142
	11/19/1993	No Data	6600	No Data	938	2150
Reference - West of 191						
92-02	12/09/1992	21.0B	No Data	No Data	72.4	288
	03/16/1993	528	No Data	No Data	56.5	271
	04/20/1993	20.4B	No Data	No Data	52.7	314B
	07/19/1993	48.8B	No Data	No Data	46.8	276B
	10/28/1993	No Data	No Data	42.2B	48.1	260B
	05/03/1994	No Data	No Data	68.7B	48.2	326B
	10/03/1994	No Data	No Data	63.5B	49.7	368B
	04/17/1995	No Data	No Data	10.0U	48.3	242B
	10/02/1995	No Data	No Data	10.0U	49.3	198
92-04	11/19/1992	84.3B	No Data	No Data	137	440
	03/08/1993	17.9B	No Data	No Data	120	436
	04/20/1993	37.6B	No Data	No Data	129	542
	04/20/1993	1470	No Data	No Data	489	486B
	07/20/1993	56.8B	No Data	No Data	120	440B
	10/29/1993	No Data	No Data	33.7B	118	430B
	10/29/1993	No Data	No Data	36.3B	117	426B
	04/26/1994	No Data	No Data	24.1B	111	430B
	10/04/1994	No Data	No Data	57.3B	112	564
	04/20/1995	No Data	No Data	20.0U	106	528
	10/04/1995	No Data	No Data	94.1B	109	375
92-06	11/23/1992	23.4B	No Data	No Data	90.1	420
	03/09/1993	10.0U	No Data	No Data	89.6	355
	04/21/1993	45.7B	No Data	No Data	89.8	340B
	07/20/1993	53.3B	No Data	No Data	88.1	352B
	07/20/1993	34.6B	No Data	No Data	88.1	354B
	10/25/1993	No Data	No Data	18.6B	89.7	368B
	04/26/1994	No Data	No Data	31.4B	88.1	382B
	10/06/1994	No Data	No Data	69.3B	93.4	358B
	04/20/1995	No Data	No Data	21.9B	88.1	438B
	10/03/1995	No Data	No Data	10.0U	90.1	320

[a]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value.

Bedrock Groundwaters Common Ions Data[a]

Sample Location	Sample Date	Ca (mg/L)	Cl[b] (mg/L)	F[b] (µg/L)	Hardness (mg/L)	K (mg/L)	Mg (mg/L)	Na (mg/L)	NH_4[b] (µg/L)	NO_2[b] (µg/L)
Reference - West of 191										
92-13	11/02/1993	12.7R	5.58	2400	34.2	3.74R	.595R	159R	3690	No Data
	05/02/1994	11.7R	5.0	1800N	36.2	3.3R	1.7R	157R	3600	No Data
	10/12/1994	10.8	4.71	1880	33.4	2.67J	1.55J	152	2200	No Data
	04/24/1995	13R	4.42	925	45.3	1.95R	3.12R	141R	515	No Data
	10/10/1995	14.7R	4.29	1020	52.4	2.35R	3.81R	141R	27.0B	No Data
On-Site										
31SW93-200-1	11/16/1993	64.2	2.38	149B	209	2.85J	11.9	46.9	No Data	No Data
31SW93-200-2	11/17/1993	19.6	5.64	945	75.3	3.1J	6.4	191	No Data	No Data
31SW93-200-3	11/17/1993	125	95.1	963	480	18	40.8	1000	No Data	No Data
31SW93-202-2	11/15/1993	443	178	285	1530	8.09	104	261	No Data	No Data
31SW93-203-2	11/16/1993	296	185	497	1220	13.9	116	440	No Data	No Data
31SW93-204-2	11/16/1993	509	317	293	2460	18.7	288	670	No Data	No Data
	11/16/1993	507	317	255	2450	17.6	288	659	No Data	No Data
84-75	12/09/1992	26	4.37	174B	95.7	2.58J	7.48	98.6	227	6.0U
	03/10/1993	26.2	4.37	175B	96.8	2.38J	7.62	98.8J	124	2.0U
	04/29/1993	27	4.29	164B	99.3	1.55	7.74	101	178	6.9B
	07/28/1993	27	4.29	187B	99.1	1.85J	7.7	101	185	6.6B
84-76	11/18/1992	13.9	3.18	252	50.6	1.7U	3.85J	90.6	139	12.8B
	03/03/1993	13.9	3.03	230	50.4	1.24J	3.82J	91.3J	180	2.0U
	04/28/1993	14.5	3.06	240	52.5	1.81	3.95	95.3	124	7.0B
	07/27/1993	14.3	2.87	254	51.2	.906U	3.76J	90.6	182	5.9B
84-77	11/11/1992	66.5	2.4	125B	211	1.7U	10.9	40.4	180	6.0U
	03/02/1993	67.1	2.22	118B	213	1.66J	11.1	39.5J	230	8.3B
	04/27/1993	67.2	2.28	118B	214	1.25	11.2	41	204	7.9B
	07/27/1993	69.2	2.21	143B	219	1.28J	11.1	39.6	191	4.0U
93-01	11/01/1993	70.4	2.28	250	223	4.53J	11.4	45.6	243	No Data
	05/06/1994	67.7	2.1	136BN	217	2.3J	11.7	40.3	235	No Data
	10/12/1994	66.5	2.22	120B	214	1.88J	11.6	41.2	408	No Data
	04/27/1995	68.9	2.18	82.1B	218	1.24J	11.2	39.2	181	No Data
	10/05/1995	68.9	2.18	151B	221	2.68J	11.9	41.4	213	No Data
	04/12/1996	69.1	2.39	138B	219	1.45J	11.3	39.3	169	No Data

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value.

Bedrock Groundwaters Common Ions Data[a]

Sample Location	Sample Date	NO_3 ($\mu g/L$)	NO_3+NO_2 ($\mu g/L$)	NO_3+NO_2-N ($\mu g/L$)	SO_4 (mg/L)	TDS (mg/L)
Reference - West of 191						
92-13	11/02/1993	No Data	No Data	25.4B	62.5	630
	05/02/1994	No Data	No Data	28.5B	51.6	634
	10/12/1994	No Data	No Data	71.3B	59.6	692
	04/24/1995	No Data	No Data	680	19.9	836
	10/10/1995	No Data	No Data	1340	18.9	418
On-Site						
31SW93-200-1	11/16/1993	No Data	30.8B	No Data	106	514
31SW93-200-2	11/17/1993	No Data	55.0B	No Data	9.36	998
31SW93-200-3	11/17/1993	No Data	21400	No Data	2240	4020
31SW93-202-2	11/15/1993	No Data	96500	No Data	1210	2810
31SW93-203-2	11/16/1993	No Data	2180	No Data	1430	3010
31SW93-204-2	11/16/1993	No Data	12400	No Data	2740	5368
	11/16/1993	No Data	12300	No Data	2740	5376
84-75	12/09/1992	27.6B	No Data	No Data	88	488
	03/10/1993	25.7B	No Data	No Data	90.8	650
	04/29/1993	25.3B	No Data	No Data	90.7	616
	07/28/1993	45.6B	No Data	No Data	88.9	654
84-76	11/18/1992	65.0B	No Data	No Data	55.2	360
	03/03/1993	33.1B	No Data	No Data	55.8	487
	04/28/1993	82.0B	No Data	No Data	57.1	546
	07/27/1993	51.7B	No Data	No Data	54.6	542
84-77	11/11/1992	67.2B	No Data	No Data	97.3	360
	03/02/1993	30.9B	No Data	No Data	99.2	402
	04/27/1993	16.2B	No Data	No Data	101	362B
	07/27/1993	68.5B	No Data	No Data	98	430B
93-01	11/01/1993	No Data	No Data	16.4B	118	534
	05/06/1994	No Data	No Data	16.5B	95.0	440B
	10/12/1994	No Data	No Data	25.7B	102	468B
	04/27/1995	No Data	No Data	23.6B	100	524
	10/05/1995	No Data	No Data	40.1B	101	345
	04/12/1996	No Data	No Data	7.0U	101	348

[a]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value.

Bedrock Groundwaters Common Ions Data[a]

Sample Location	Sample Date	Ca (mg/L)	Cl[b] (mg/L)	F[b] (μg/L)	Hardness (mg/L)	K (mg/L)	Mg (mg/L)	Na (mg/L)	NH_4[b] (μg/L)	NO_2[b] (μg/L)
Crossgradient										
06NW93-206-3	12/02/1993	No Data	7.75	2550	No Data	No Data	No Data	No Data	No Data	No Data
31NE93-205	05/11/1994	107	2.5	75.3BN	404	5.6	33.3	116	342	No Data
	10/11/1994	99.9	2.51	80.5B	378	5.11	31.3	108	627	No Data
	04/20/1995	98.1	2.47	48.4B	365	5.16	29.2	105	428	No Data
	10/17/1995	99.3	2.45	103B	368	4.97J	29.1	104	344	No Data
31SW93-197-2	11/22/1993	58.2	1.62	133B	185	1.72J	9.66	32.6	No Data	No Data
31SW93-197-3	12/03/1993	17.8	5.11	790	73.5	5.58	7.06	121	No Data	No Data
95-07	02/14/1996	18.6R	29.3	3240	81.7	10.5R	8.57R	549R	1090	No Data
	04/12/1996	14.8R	26.7	2990	69.1	7.57R	7.81R	590R	377	No Data
	07/25/1996	17.7	26.1	3060	86.6	10	10.3	608	508	No Data
Downgradient										
83-70	11/17/1992	52.7	3.06	133B	176	2.4J	10.8	60.2	223	6.0U
	11/17/1992	53.5	3.06	131B	178	2.68J	10.8	61.4	217	6.0U
	03/01/1993[c]	53.7	2.88	149B	179	1.69J	10.8	58.3J	272	3.0B
	04/27/1993	55.1	2.88	141B	183	2.3	11.1	61.2	239	6.7B
	07/21/1993	53.9	2.78	160B	179	2.94J	10.7	57	253	4.0U
	11/02/1993	54.7	2.82	126B	183	3.15J	11.2	63.8	256	No Data
	05/10/1994	53.3	2.9	136BN	181	2.8J	11.6	65.8	258	No Data
	10/11/1994	52.1	2.95	153B	176	1.77J	11.2	63.2	294	No Data
	04/25/1995	55.7	2.98	89.5B	185	2.38J	11.2	61.1	259	No Data
	10/11/1995	54.8	2.9	201	182	1.82J	11	62.3	242	No Data
84-74	11/04/1992	45.5	3.91	150B	159	2.22J	11	74.2	316	6.0U
	03/11/1993	45.8	3.57	133B	161	3.07J	11.3	74.9J	40.0	2.0U
	04/23/1993	46.3	3.58	144B	163	2.84	11.5	75.2	279	3.8B
	07/21/1993	45.9	3.49	143B	159	2.57J	10.8	71.2	268	4.0U
92-10	11/16/1992	60.5	5.47E	113B	196	1.98J	10.8	44.9	195	6.0U
	03/15/1993	75.4	13.7	111B	242	2.08J	13.1	55J	192	30.9B
	04/22/1993	72.9	12.6	113B	236	2.86	13	52.1	295	3.9B
	07/22/1993	75.4	13.4	143B	241	2.49J	12.9	52.1	206	4.0U
	10/28/1993	74.9	11.9	93.7B	242	3.29J	13.3	55.5J	213	No Data
	05/09/1994	76.8R	14.0	116BN	249	2.9R	13.9R	56.7R	251	No Data
	10/05/1994	76.6	15.6	123B	248	2.68J	13.8	55.8	283	No Data
	04/24/1995	80.1	15.3	104B	256	2.01J	13.6	53.8	229	No Data
	10/04/1995	80.7	17.7	133B	261	2.9J	14.5	57.4	215	No Data

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value.
[c]Evaluation and investigation of anomalous data points has determined that the 3/31/93 samples from wells 88-85 and 83-70 were inadvertently switched in the laboratory. Results have been corrected; however, the corrected results were not used in any statistical calculations.

Bedrock Groundwaters Common Ions Data[a]

Sample Location	Sample Date	NO_3 (µg/L)	NO_3+NO_2 (µg/L)	NO_3+NO_2-N (µg/L)	SO_4 (mg/L)	TDS (mg/L)
Crossgradient						
06NW93-206-3	12/02/1993	No Data	171B	No Data	81.3	No Data
31NE93-205	05/11/1994	No Data	No Data	8.9B	451	964
	10/11/1994	No Data	No Data	27.3B	457	970
	04/20/1995	No Data	No Data	10.3B	415	964
	10/17/1995	No Data	No Data	10.0U	416	768
31SW93-197-2	11/22/1993	No Data	56.0B	No Data	78.3	394B
31SW93-197-3	12/03/1993	No Data	343	No Data	14.6	2428
95-07	02/14/1996	No Data	No Data	90.6*	18.9	1550
	04/12/1996	No Data	No Data	7.0U	11.3	1520
	07/25/1996	No Data	No Data	7.6B	10.8	1510
Downgradient						
83-70	11/17/1992	120B	No Data	No Data	98	360
	11/17/1992	77.9B	No Data	No Data	96.8	440
	03/01/1993[b]	10.0U	No Data	No Data	100	423
	04/27/1993	17.9B	No Data	No Data	101	494B
	07/21/1993	58.4B	No Data	No Data	97.8	496B
	11/02/1993	No Data	No Data	14.1B	98.7	602
	05/10/1994	No Data	No Data	9.5B	99.3	450B
	10/11/1994	No Data	No Data	71.4B	103	606
	04/25/1995	No Data	No Data	36.4B	99.8	606
	10/11/1995	No Data	No Data	10.0U	102	400
84-74	11/04/1992	38.3B	No Data	No Data	101	520
	03/11/1993	17.3B	No Data	No Data	105	571
	04/23/1993	32.7B	No Data	No Data	104	622
	07/21/1993	8.5B	No Data	No Data	102	568
92-10	11/16/1992	43.6B	No Data	No Data	106	400
	03/15/1993	30.2B	No Data	No Data	143	511
	04/22/1993	32.3B	No Data	No Data	136	458B
	07/22/1993	26.1B	No Data	No Data	137	444B
	10/28/1993	No Data	No Data	42.1B	130	446B
	05/09/1994	No Data	No Data	14.8B	139	512
	10/05/1994	No Data	No Data	47.3B	148	580
	04/24/1995	No Data	No Data	41.4B	142	530
	10/04/1995	No Data	No Data	10.0U	152	460

[a]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value. * -- Duplicate analysis is not within control limits.
[b]Evaluation and investigation of anomalous data points has determined that the 3/31/93 samples from wells 88-85 and 83-70 were inadvertently switched in the laboratory. Results have been corrected; however, the corrected results were not used in any statistical calculations.

Bedrock Groundwaters Common Ions Data[a]

Sample Location	Sample Date	Ca (mg/L)	Cl[b] (mg/L)	F[b] (μg/L)	Hardness (mg/L)	K (mg/L)	Mg (mg/L)	Na (mg/L)	NH_4[b] (μg/L)	NO_2[b] (μg/L)
Downgradient										
92-10	10/04/1995	81	17.9	161B	262	4.19J	14.6	58.2	220	No Data
	04/09/1996	77.2	15.8	112B	250	2.5J	13.8	53	194	No Data
92-12	11/02/1993	34R	5.73	495	123	3.82R	9.2R	137R	54.4	No Data
	05/03/1994	34.0R	4.9	472N	125	4.2R	9.8R	141R	44.4	No Data
	10/12/1994	44.8R	4.51	503	158	4.55R	11.1R	134R	95.8	No Data
	04/27/1995	47.6R	3.85	419	161	3.81R	10.2R	126R	27.5	No Data
	10/10/1995	32.6R	3.55	513	120	3.73R	9.26R	125R	105	No Data
	04/12/1996	33.5R	3.74	61.0B	125	2.4R	9.98R	125R	11.9B	No Data
95-02	02/12/1996	38	5.03	235	143	2.21J	11.6	78.2	158	No Data
	04/08/1996	39	5.13	266	146	2.17J	11.8	75.1	143	No Data
	04/08/1996	38.6	5.11	296	145	2.07J	11.7	74.7	140	No Data
	07/23/1996	38.9	5.24	253	146	3.6J	11.9	76.7	135	No Data
95-04	02/13/1996	174	88.3	179B	676	3.33J	58.7	138	298	No Data
	04/09/1996	173	87.4	150B	672	3.1J	58.2	134	315	No Data
	07/24/1996	174	87.2	152	681	4.6J	59.8	136	266	No Data
95-06	02/13/1996	129R	66.9	165B	475	6.22R	37.1R	166R	420	No Data
	04/10/1996	182	90.1	128B	667	5.37J	51.5	196	421	No Data
	07/26/1996	200	95.6	124	739	6.75	58.3	215	439	No Data
95-08	02/15/1996	18	2.84	287	66.9	2.75J	5.32J	89.2	245	No Data
	04/10/1996	27.6	5.41	793	107	3.04J	9.26	96.8	251	No Data
	07/24/1996	28.1	5.34	881	109	4.43J	9.39	98.2	229	No Data

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected: value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value.

Bedrock Groundwaters Common Ions Data[a]

Sample Location	Sample Date	NO_3 ($\mu g/L$)	NO_3+NO_2 ($\mu g/L$)	NO_3+NO_2-N ($\mu g/L$)	SO_4 (mg/L)	TDS (mg/L)
Downgradient						
92-10	10/04/1995	No Data	No Data	10.0U	153	463
	04/09/1996	No Data	No Data	7.0U	144	442
92-12	11/02/1993	No Data	No Data	246	128	686
	05/03/1994	No Data	No Data	1030	126	894
	10/12/1994	No Data	No Data	1100	126	914
	04/27/1995	No Data	No Data	1220	113	980
	10/10/1995	No Data	No Data	774	109	473
	04/12/1996	No Data	No Data	953	108	470
95-02	02/12/1996	No Data	No Data	10.0U*	114	360
	04/08/1996	No Data	No Data	10.9B	113	367
	04/08/1996	No Data	No Data	9.2B	113	373
	07/23/1996	No Data	No Data	7.0U	112	363
95-04	02/13/1996	No Data	No Data	10.0U*	555	1230
	04/09/1996	No Data	No Data	7.0U	557	1270
	07/24/1996	No Data	No Data	7.0U	552	1240
95-06	02/13/1996	No Data	No Data	10.0U*	512	1060
	04/10/1996	No Data	No Data	13.6B	692	1460
	07/26/1996	No Data	No Data	27.4B	726	1580
95-08	02/15/1996	No Data	No Data	10.0U*	72.1	295
	04/10/1996	No Data	No Data	15.9B	38	365
	07/24/1996	No Data	No Data	61.9B	34.7	345

[a]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value. * -- Duplicate analysis is not within control limits.

Bedrock Groundwaters Metals Data[a]

Sample Location	Sample Date	Ag (µg/L)	Al (µg/L)	As (µg/L)	B (µg/L)	Ba (µg/L)	Be (µg/L)	Cd (µg/L)	CN[b] (µg/L)	Co (µg/L)
Reference										
06NW93-104-5	11/23/1993	5.0U	No Data	4.0UJ	No Data	138J	1.0U	3.0U	No Data	No Data
31SW93-197-5	11/19/1993	5.0U	No Data	4.4UJ	No Data	14.4J	1.0U	3.0U	No Data	No Data
	11/19/1993	5.0U	No Data	4.0UJ	No Data	10.7J	1.0U	3.0U	No Data	No Data
Reference - West of 191										
92-02	12/09/1992	4.0U	251	3.7J	42.0U	79.1J	1.0U	1.0U	10.0U	10.0U
	03/16/1993	4.0U	304	3.0U	103	55.5J	1.0U	1.0U	10.0U	6.0U
	04/20/1993	4.0U	12.0U	3.1J	7.0U	47.9J	1.0U	1.0U	4.0U	No Data
	07/19/1993	7.0U	14.2J	3.3J	17.5J	50.3J	1.0U	1.0U	4.0U	No Data
	10/28/1993	1.0U	29.0U	5.5J	26.0U	41.3J	No Data	1.0U	No Data	No Data
	05/03/1994	4.0U	9.5J	6.6J	28.8J	34.0J	No Data	1.0U	No Data	No Data
	10/03/1994	1.0UJ	20.6J	6.9J	2.0UJ	35.1J	No Data	1.0U	No Data	No Data
	04/17/1995	1.0UJ	55.4J	1.0U	8.0U	32.9J	No Data	1.0U	No Data	8.0U
	10/02/1995	No Data	21.5J	3.8J	6.0U	No Data	No Data	No Data	No Data	6.7U
92-04	11/19/1992	6.0U	51.5J	3.2J	42.0U	96.1J	1.0U	1.0U	10.0U	10.0U
	03/08/1993	4.0U	37.1J	6.7J	150	68.9J	1.0U	1.0U	10.0U	6.0U
	04/20/1993	4.0U	12.0U	6.8J	79.0J	58.9J	1.0U	1.0U	4.0U	No Data
	04/20/1993	4.0U	12.0U	6.6J	84.2J	55.7J	1.0U	1.0U	4.0U	No Data
	07/20/1993	7.0U	20.5J	8.9J	51.6J	52.7J	1.0U	1.0U	4.0U	No Data
	10/29/1993	1.0U	29.0U	12.3	39.2J	39.6J	No Data	1.0U	No Data	No Data
	10/29/1993	1.0U	29.0U	10.6J	42.7J	39.1J	No Data	1.0U	No Data	No Data
	04/26/1994	4.0U	9.0U	15.8	39.7J	34.9J	No Data	1.0U	No Data	No Data
	10/04/1994	1.0UJ	20.1J	11.5J	2.0UJ	29.3J	No Data	1.0U	No Data	No Data
	04/20/1995	1.0UJ	11.0U	7.0J	25.2J	28.5J	No Data	1.0U	No Data	8.0U
	10/04/1995	No Data	13.3U	7.0J	6.0U	No Data	No Data	No Data	No Data	6.7U
92-06	11/23/1992	6.0U	117J	3.3J	42.0U	28.4J	1.0U	1.0U	10.0U	10.0U
	03/09/1993	4.0U	15.9J	3.0U	39.9J	24.6J	1.0U	1.0U	10.0U	6.0U
	04/21/1993	4.0U	12.0U	3.0U	52.3J	19.2J	1.0U	1.0U	4.0U	No Data
	07/20/1993	7.0U	18.5J	3.0U	46.8J	2.0U	1.0U	1.0U	4.0U	No Data
	07/20/1993	7.0U	25.0J	3.0U	53.7J	2.0U	1.0U	1.0U	4.0U	No Data
	10/25/1993	1.0U	29.0U	4.4U	31.0J	26.0U	No Data	1.0U	No Data	No Data
	04/26/1994	4.0U	9.0U	2.0U	32.3J	20.1J	No Data	1.0U	No Data	No Data
	10/06/1994	1.0UJ	31.0J	3.0J	2.0UJ	21.5J	No Data	1.0U	No Data	No Data
	04/20/1995	1.0UJ	11.0U	1.0U	19.2J	19.8J	No Data	1.0U	No Data	8.0U
	10/03/1995	No Data	13.8J	1.6J	6.0U	No Data	No Data	No Data	No Data	6.7U

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value.

Bedrock Groundwaters Metals Data[a]

Sample Location	Sample Date	Cr (µg/L)	Cu (µg/L)	Fe (µg/L)	Hg (µg/L)	Mn (µg/L)	Mo (µg/L)	Ni (µg/L)	Pb (µg/L)	Sb (µg/L)
Reference										
06NW93-104-5	11/23/1993	5.6J	4.2J	1490	0.20U	No Data	29.0U	11.0U	9.1	43.0U
31SW93-197-5	11/19/1993	4.0U	3.0U	170	0.20U	No Data	29.0U	18.0J	1.0U	43.0U
	11/19/1993	4.0U	3.0U	138	0.20U	No Data	29.0U	19.5J	1.0U	43.0U
Reference - West of 191										
92-02	12/09/1992	4.0U	5.0U	498	0.10U	773	48.2J	13.0U	2.2J	5.0J
	03/16/1993	3.0U	3.0U	692J	0.10U	617	22.0U	9.0U	2.0J	4.0J
	04/20/1993	3.0U	3.0U	4.0U	0.10U	612	14.7J	11.8J	1.2J	1.0U
	07/19/1993	4.0U	5.0U	132	0.10U	485	10.6J	14.0U	1.0U	1.0U
	10/28/1993	4.0U	3.0U	60.1J	No Data	351	7.1J	11.0U	1.0U	No Data
	05/03/1994	4.0U	2.0U	5.0U	No Data	486	27.0U	6.0U	1.0U	No Data
	10/03/1994	2.0U	4.0U	115	No Data	511	3.0J	8.0U	1.0U	No Data
	04/17/1995	4.0U	4.2J	81.9J	No Data	505	2.5J	9.0U	1.8J	No Data
	10/02/1995	No Data	4.4U	No Data	No Data	497	15.6U	No Data	No Data	35.6U
92-04	11/19/1992	6.0U	4.0U	113	0.10U	589	60.6	12.8J	12.1	1.0U
	03/08/1993	3.0U	3.0U	71.0J	0.10U	753	22.0U	9.0U	2.3J	1.0U
	04/20/1993	7.3J	3.0U	224	0.10U	709	23.5J	10.2J	1.3J	1.0U
	04/20/1993	3.0U	3.0U	138	0.10U	686	17.1J	9.0U	3.9J	1.0U
	07/20/1993	4.0U	5.0U	216	0.10U	632	17.0J	14.0U	7.6	6.3J
	10/29/1993	4.0U	3.0U	158	No Data	502	25.8J	11.0U	1.0U	No Data
	10/29/1993	4.0U	3.0U	150	No Data	503	25.1J	11.0U	1.0U	No Data
	04/26/1994	8.4J	2.0U	211	No Data	467	27.0U	8.1J	1.0U	No Data
	10/04/1994	2.0U	4.0U	79.1J	No Data	442	21.9J	8.0U	1.0U	No Data
	04/20/1995	4.0U	3.0U	111	No Data	443	13.1J	9.7J	1.0U	No Data
	10/04/1995	No Data	4.4U	No Data	No Data	426	15.6U	No Data	No Data	35.6U
92-06	11/23/1992	6.0U	4.0U	312	0.10U	445	3.1J	11.0U	1.0U	1.0U
	03/09/1993	3.0U	3.0U	62.4J	0.10U	423	22.0U	9.0U	1.0UJ	1.0U
	04/21/1993	3.0U	3.0U	58.1	0.10U	439	1.0U	9.0U	1.8J	1.0U
	07/20/1993	4.0U	5.0U	154	0.10U	439	1.3J	14.0U	2.2J	1.0U
	07/20/1993	4.0U	5.0U	80.5J	0.10U	430	1.0J	14.0U	1.0U	1.0U
	10/25/1993	4.0U	3.0U	54.8J	No Data	427	2.4J	11.0U	1.0U	No Data
	04/26/1994	4.0U	2.0U	96.3J	No Data	434	27.0U	6.0U	1.0U	No Data
	10/06/1994	2.0U	4.0U	120	No Data	426	1.7J	8.0U	1.5J	No Data
	04/20/1995	4.0U	3.0U	146	No Data	407	2.0J	9.0U	1.0U	No Data
	10/03/1995	No Data	4.4U	No Data	No Data	398	15.6U	No Data	No Data	35.6U

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.

Bedrock Groundwaters Metals Data[a]

Sample Location	Sample Date	Se (µg/L)	Sn (µg/L)	Sr (µg/L)	Tl (µg/L)	U (µg/L)	V (µg/L)	Zn (µg/L)
Reference								
06NW93-104-5	11/23/1993	2.0UJ	No Data	1090	No Data	1.8J	8.2J	81.3
31SW93-197-5	11/19/1993	18.5J	No Data	6110	No Data	16.9	5.0U	11.0J
	11/19/1993	17.0J	No Data	6130	No Data	16.8	5.0U	10.0J
Reference - West of 191								
92-02	12/09/1992	2.0UJ	No Data	710	1.0U	2.6J	9.0U	6.0U
	03/16/1993	2.0UJ	No Data	634	1.0U	1.4J	4.0U	3.0U
	04/20/1993	3.1J	No Data	647	2.0U	1.0U	4.0U	4.0J
	07/19/1993	3.3UJ	No Data	604	1.0U	1.0U	8.0U	5.1J
	10/28/1993	2.0UJ	No Data	No Data	1.0U	1.0U	5.0U	7.0U
	05/03/1994	1.0U	No Data	No Data	1.0U	1.0U	5.0U	2.0U
	10/03/1994	2.0U	No Data	No Data	1.0U	1.0U	6.0U	2.0U
	04/17/1995	1.0U	1.0U	No Data	1.0U	1.0U	4.0U	18.5J
	10/02/1995	1.1U	1.1U	No Data	No Data	No Data	6.7U	3.3U
92-04	11/19/1992	3.0J	No Data	1790	1.0U	2.8J	7.0U	20.0
	03/08/1993	2.0UJ	No Data	1790	1.0U	1.0U	4.0U	11.4J
	04/20/1993	2.2J	No Data	1820	2.0U	1.0U	4.0U	9.9J
	04/20/1993	2.0U	No Data	1790	2.0U	1.0U	4.0U	10.0J
	07/20/1993	3.0UJ	No Data	1860	1.0U	1.0U	8.0U	3.0U
	10/29/1993	2.0UJ	No Data	No Data	1.0U	1.0U	5.0U	9.6J
	10/29/1993	2.0UJ	No Data	No Data	1.0U	1.0U	5.0U	11.8J
	04/26/1994	1.0J	No Data	No Data	1.0U	1.0U	5.0U	2.0U
	10/04/1994	2.0U	No Data	No Data	1.0U	1.0U	6.0U	4.3J
	04/20/1995	1.0U	1.0U	No Data	1.0U	1.0U	4.0U	24.2
	10/04/1995	1.1U	1.1U	No Data	No Data	No Data	6.7U	3.3U
92-06	11/23/1992	2.3J	No Data	1430	1.0U	1.0U	7.0U	18.4J
	03/09/1993	2.0UJ	No Data	1360	1.0U	1.0U	4.0U	4.0J
	04/21/1993	2.0U	No Data	1430	2.0U	1.0U	4.0U	6.7J
	07/20/1993	3.3UJ	No Data	1430	1.0U	1.0U	8.0U	3.0U
	07/20/1993	3.0U	No Data	1410	1.0U	1.0U	8.0U	3.0U
	10/25/1993	2.2U	No Data	No Data	1.0U	1.0U	5.0U	7.0U
	04/26/1994	1.0U	No Data	No Data	1.0U	1.0U	5.0U	2.0U
	10/06/1994	2.0U	No Data	No Data	1.0U	1.0U	6.0U	2.0U
	04/20/1995	1.0U	1.0U	No Data	1.0U	1.0U	4.0U	6.9J
	10/03/1995	1.1U	1.1U	No Data	No Data	No Data	6.7U	3.4J

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.

Bedrock Groundwaters Metals Data[a]

Sample Location	Sample Date	Ag (µg/L)	Al (µg/L)	As (µg/L)	B (µg/L)	Ba (µg/L)	Be (µg/L)	Cd (µg/L)	CN[b] (µg/L)	Co (µg/L)
Reference - West of 191										
92-13	11/02/1993	1.0R	829R	33.8R	180R	42.2R	No Data	1.0R	No Data	No Data
	05/02/1994	4.0R	580R	25.6R	149R	42.1R	No Data	1.0R	No Data	No Data
	10/12/1994	1.0UJ	1860	48.3J	163J	54.0J	No Data	1.0U	No Data	No Data
	04/24/1995	1.0U	191R	25.1	91.7J	2.0R	No Data	1.0U	No Data	8.0U
	10/10/1995	No Data	161R	19.0R	73.2R	No Data	No Data	No Data	No Data	6.7R
On-Site										
31SW93-200-1	11/16/1993	5.0U	No Data	4.0UJ	No Data	59.8J	1.0U	3.0U	No Data	No Data
31SW93-200-2	11/17/1993	5.0U	No Data	4.5J	No Data	823	1.0U	3.0U	No Data	No Data
31SW93-200-3	11/17/1993	5.0U	No Data	20.0UJ	No Data	194J	1.0U	3.0U	No Data	No Data
31SW93-202-2	11/15/1993	5.0U	No Data	4.0UJ	No Data	28.7J	1.0U	3.0U	No Data	No Data
31SW93-203-2	11/16/1993	5.0U	No Data	4.0UJ	No Data	13.3J	1.0U	3.0U	No Data	No Data
31SW93-204-2	11/16/1993	5.0U	No Data	4.0UJ	No Data	5.3J	1.0U	3.0U	No Data	No Data
	11/16/1993	5.0U	No Data	4.0UJ	No Data	6.0J	1.0U	3.0U	No Data	No Data
84-75	12/09/1992	4.0U	53.6J	2.0UJ	44.6J	27.6J	1.0U	1.0U	10.0U	10.0U
	03/10/1993	4.0U	15.0J	3.0U	79.8J	27.1J	1.0U	1.0U	10.0U	6.0U
	04/29/1993	4.0U	12.0U	3.0UJ	49.0J	27.9J	1.0U	1.0U	4.0U	No Data
	07/28/1993	7.0U	14.0U	3.0UJ	3.0U	31.4J	1.0U	1.0U	4.0U	No Data
84-76	11/18/1992	6.0U	28.7J	2.2J	47.0J	57.9J	1.0U	1.0U	10.0U	10.0U
	03/03/1993	4.0U	20.5J	3.0U	97.2J	51.9J	1.0U	1.0U	10.0U	6.0U
	04/28/1993	4.0U	53.8J	3.0UJ	54.5J	53.0J	1.0U	1.0U	4.0U	No Data
	07/27/1993	7.0U	14.0U	3.0UJ	55.3J	52.5J	1.0U	1.0U	4.0U	No Data
84-77	11/11/1992	6.0U	20.0U	3.0U	47.4J	20.8J	1.0U	1.0U	10.0U	10.0U
	03/02/1993	4.0U	45.3J	3.0U	58.9J	22.3J	1.0U	1.0U	10.0U	6.0U
	04/27/1993	4.0U	12.0U	3.0UJ	34.0J	18.6J	1.0U	1.0U	4.0U	No Data
	07/27/1993	7.0U	14.0U	3.0UJ	3.0U	24.2J	1.0U	1.0U	4.0U	No Data
93-01	11/01/1993	1.0U	29.0U	4.4UJ	28.0J	46.2J	No Data	1.0U	No Data	No Data
	05/06/1994	4.0U	17.6J	4.8J	37.5J	21.7J	No Data	1.0U	No Data	No Data
	10/12/1994	1.0UJ	10.0U	3.9J	24.5J	24.1J	No Data	1.0U	No Data	No Data
	04/27/1995	1.0U	25.5J	1.0U	8.0U	18.3J	No Data	1.0U	No Data	8.0U
	10/05/1995	No Data	13.3U	4.1J	6.0U	No Data	No Data	No Data	No Data	6.7U
	04/12/1996	No Data	18.6J	4.7J	No Data	No Data	No Data	No Data	No Data	7.8U

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value.

Bedrock Groundwaters Metals Data[a]

Sample Location	Sample Date	Cr (μg/L)	Cu (μg/L)	Fe (μg/L)	Hg (μg/L)	Mn (μg/L)	Mo (μg/L)	Ni (μg/L)	Pb (μg/L)	Sb (μg/L)
Reference - West of 191										
92-13	11/02/1993	4.0R	6.4R	340R	No Data	16.6R	249R	11.0R	2.7R	No Data
	05/02/1994	4.0R	2.0R	319R	No Data	12.1R	118R	6.0R	1.3R	No Data
	10/12/1994	2.0U	8.8J	1440	No Data	51.6	146	8.0U	5.8	No Data
	04/24/1995	4.0U	3.0U	142R	No Data	17.2R	38.0J	9.0U	1.0R	No Data
	10/10/1995	No Data	4.4R	No Data	No Data	22.9R	21.3R	No Data	No Data	35.6R
On-Site										
31SW93-200-1	11/16/1993	8.5J	3.0U	267	0.20U	No Data	31.8J	11.0U	1.6J	43.0U
31SW93-200-2	11/17/1993	38.2	197	774	0.20U	No Data	29.0U	38.7J	13.2	43.0U
31SW93-200-3	11/17/1993	5.8J	3.0U	4730	0.20U	No Data	60.2	11.0U	5.4	43.0U
31SW93-202-2	11/15/1993	4.0U	3.0U	160	0.20U	No Data	29.0U	22.7J	1.0U	43.0U
31SW93-203-2	11/16/1993	5.2J	3.0U	48.3J	0.20U	No Data	29.0U	11.0U	1.0U	43.0U
31SW93-204-2	11/16/1993	4.0U	3.0U	29.4J	0.20U	No Data	29.0U	16.8J	1.0U	43.0U
	11/16/1993	4.0U	3.0U	24.0J	0.20U	No Data	29.0U	17.4J	1.0U	43.0U
84-75	12/09/1992	4.0U	5.0U	224	0.10U	82.1	1.0U	13.0U	21.7	1.0U
	03/10/1993	3.0U	3.0U	143J	0.10U	85.1	22.0U	9.0U	1.0UJ	1.0U
	04/29/1993	3.0U	3.0U	103	0.10U	80.4	1.0U	9.0U	1.0U	1.0U
	07/28/1993	4.0U	5.0U	151	0.10U	90.9	1.0U	14.0U	1.0U	1.0U
84-76	11/18/1992	6.0U	4.0U	121	0.10U	29.8	1.0J	11.0U	1.0U	1.0U
	03/03/1993	3.3J	3.0U	105J	0.10U	31.3	22.0U	9.0U	1.0UJ	1.0U
	04/28/1993	3.0U	18.3J	120	0.10U	31.3	1.0U	9.0U	2.1J	1.0U
	07/27/1993	4.0U	5.0U	95.3J	0.10U	31.7	1.0U	14.0U	1.0U	1.0U
84-77	11/11/1992	6.0U	4.0U	168	1.2	416	2.7J	11.0U	1.0U	1.0J
	03/02/1993	3.0U	3.0U	336J	0.10U	390	22.0U	9.0U	1.0UJ	1.0U
	04/27/1993	3.0U	24.7J	206	0.10U	371	1.2J	9.0U	1.0U	1.0U
	07/27/1993	4.0U	5.0U	1280	0.10U	395	1.0U	14.0U	1.0U	1.0U
93-01	11/01/1993	4.0U	3.0U	47.0J	No Data	354	29.3J	11.0U	1.0U	No Data
	05/06/1994	4.0U	2.0U	5.0U	No Data	380	27.0U	6.0U	1.0U	No Data
	10/12/1994	2.0U	4.0U	60.5J	No Data	388	1.2J	8.0U	1.0U	No Data
	04/27/1995	4.0U	3.0U	159	No Data	379	1.6J	9.0U	1.0U	No Data
	10/05/1995	No Data	4.4U	No Data	No Data	378	15.6U	No Data	No Data	35.6U
	04/12/1996	No Data	3.3U	No Data	No Data	384	0.56U	No Data	0.44U	No Data

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected: value is sample detection limit. UJ -- Not detected, associated value is estimated.

Bedrock Groundwaters Metals Data[a]

Sample Location	Sample Date	Se (µg/L)	Sn (µg/L)	Sr (µg/L)	Tl (µg/L)	U (µg/L)	V (µg/L)	Zn (µg/L)
Reference - West of 191								
92-13	11/02/1993	2.0R	No Data	No Data	1.0R	1.0R	36.5R	7.0R
	05/02/1994	1.0R	No Data	No Data	1.0R	2.5R	20.5R	2.0R
	10/12/1994	2.0U	No Data	No Data	1.0U	4.5J	18.9J	16.1J
	04/24/1995	1.0U	1.0U	No Data	1.0U	1.8J	4.0U	39.7R
	10/10/1995	1.6R	1.1R	No Data	No Data	No Data	6.7R	3.3R
On-Site								
31SW93-200-1	11/16/1993	2.0UJ	No Data	1710	No Data	2.5J	5.0U	18.1J
31SW93-200-2	11/17/1993	2.0UJ	No Data	765	No Data	6.9	5.0U	67.3
31SW93-200-3	11/17/1993	12.5J	No Data	15200	No Data	21.5	13.7J	35.6
31SW93-202-2	11/15/1993	10.0UJ	No Data	8070	No Data	1290	196	7.0U
31SW93-203-2	11/16/1993	2.0UJ	No Data	10900	No Data	16.1	5.0U	7.0U
31SW93-204-2	11/16/1993	2.0UJ	No Data	12500	No Data	34.4	5.0U	7.7J
	11/16/1993	2.0UJ	No Data	12500	No Data	34.2	5.0U	7.0U
84-75	12/09/1992	2.0UJ	No Data	721	1.0U	1.0U	9.0U	6.0U
	03/10/1993	2.0UJ	No Data	711	1.0U	1.3J	4.0U	3.8J
	04/29/1993	2.2UJ	No Data	716	2.0U	1.0U	4.0U	3.0U
	07/28/1993	3.0UJ	No Data	728	1.0U	1.0U	8.0U	4.1J
84-76	11/18/1992	2.0U	No Data	332	1.0U	1.0U	7.0U	11.7J
	03/03/1993	2.0UJ	No Data	315	1.0U	1.0U	4.0U	6.9J
	04/28/1993	2.0UJ	No Data	314	2.0U	1.1J	4.0U	20.9
	07/27/1993	3.0UJ	No Data	313	1.0U	2.1J	8.0U	5.9J
84-77	11/11/1992	3.0UJ	No Data	1550	1.0U	1.0U	7.0U	6.0U
	03/02/1993	2.0UJ	No Data	1530	1.0U	1.0U	4.0U	18.5J
	04/27/1993	2.0UJ	No Data	1490	2.0U	1.0U	4.0U	33.3
	07/27/1993	3.0UJ	No Data	1530	1.0U	2.9J	8.0U	3.0U
93-01	11/01/1993	2.0UJ	No Data	No Data	1.0U	1.0U	5.0U	10.6J
	05/06/1994	1.0U	No Data	No Data	1.0U	13.7	5.0U	2.0U
	10/12/1994	2.0U	No Data	No Data	1.0U	1.0U	6.0U	2.0U
	04/27/1995	1.0U	1.0U	No Data	1.0U	1.0U	4.0U	4.8J
	10/05/1995	1.1UJ	1.1U	No Data	No Data	No Data	6.7U	3.3U
	04/12/1996	1.1UJ	No Data	No Data	No Data	0.52J	6.7U	2.2U

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.

Bedrock Groundwaters Metals Data[a]

Sample Location	Sample Date	Ag (µg/L)	Al (µg/L)	As (µg/L)	B (µg/L)	Ba (µg/L)	Be (µg/L)	Cd (µg/L)	CN[b] (µg/L)	Co (µg/L)
Crossgradient										
06NW93-206-3	12/02/1993	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
31NE93-205	05/11/1994	4.0U	24.0J	2.0U	57.0J	39.5J	No Data	1.0U	No Data	No Data
	10/11/1994	1.0UJ	10.0U	25.5J	49.1J	34.8J	No Data	1.0U	No Data	No Data
	04/20/1995	1.0UJ	11.0U	41.5	36.6J	33.8J	No Data	1.0U	No Data	8.0U
	10/17/1995	No Data	42.6J	51.4	23.2J	No Data	No Data	No Data	No Data	6.7U
31SW93-197-2	11/22/1993	5.0U	No Data	4.0UJ	No Data	26.1J	1.0U	3.0U	No Data	No Data
31SW93-197-3	12/03/1993	5.0U	No Data	17.4J	No Data	1720	10.3	3.0U	No Data	No Data
95-07	02/14/1996	No Data	1370R	1.1R	No Data	No Data	No Data	No Data	No Data	5.6R
	04/12/1996	No Data	892R	0.44R	No Data	No Data	No Data	No Data	No Data	7.8R
	07/25/1996	No Data	13800	2.3J	No Data	No Data	No Data	No Data	No Data	6.6U
Downgradient										
83-70	11/17/1992	6.0U	20.0U	3.0J	42.0U	19.7J	1.0U	1.0U	10.0U	10.0U
	11/17/1992	6.0U	77.4J	2.0UJ	42.0U	22.2J	1.0U	1.0U	10.0U	10.0U
	03/01/1993[c]	4.0U	13.5J	3.0U	66.2J	18.9J	1.0U	1.0U	10.0U	6.0U
	04/27/1993	4.0U	12.0U	3.0UJ	46.5J	16.1J	1.0U	1.0U	4.0U	No Data
	07/21/1993	7.0U	14.0U	3.0U	46.7J	24.6J	1.0U	1.0U	4.0U	No Data
	11/02/1993	1.0U	30.9J	4.0UJ	43.0J	23.2J	No Data	1.0U	No Data	No Data
	05/10/1994	4.0U	13.1J	2.0U	38.7J	18.5J	No Data	1.0U	No Data	No Data
	10/11/1994	1.0UJ	10.0U	2.0UJ	2.0UJ	19.1J	No Data	1.0U	No Data	No Data
	04/25/1995	1.0U	11.7J	1.0U	22.3J	21.7J	No Data	1.0U	No Data	8.0U
	10/11/1995	No Data	13.3U	1.1U	17.6J	No Data	No Data	No Data	No Data	6.7U
84-74	11/04/1992	6.0U	20.0U	3.0U	34.9J	17.1J	1.0U	1.0U	10.0U	10.0U
	03/11/1993	4.0U	21.2J	3.0U	49.0J	20.7J	1.0U	1.0U	10.0U	6.0U
	04/23/1993	4.0U	12.0U	3.0U	70.2J	19.4J	1.0U	1.0U	4.0U	No Data
	07/21/1993	7.0U	28.0J	3.0U	49.5J	22.9J	1.0U	1.0U	4.0U	No Data
92-10	11/16/1992	6.0U	30.0J	3.7J	42.0U	20.8J	1.0U	1.0U	10.0U	10.0U
	03/15/1993	4.0U	56.8J	3.0U	459	27.1J	1.0U	1.0U	10.0U	6.0U
	04/22/1993	4.0U	12.0U	3.0U	47.7J	21.1J	1.0U	1.0U	4.0U	No Data
	07/22/1993	7.0U	15.3J	3.0U	53.6J	23.4J	1.0U	1.0U	4.0U	No Data
	10/28/1993	1.0U	29.0U	4.0J	40.7J	26.0U	No Data	1.0U	No Data	No Data
	05/09/1994	4.0U	21.4R	3.8J	37.7J	22.1R	No Data	1.0U	No Data	No Data
	10/05/1994	1.0UJ	10.0U	2.0J	2.0UJ	22.5J	No Data	1.0U	No Data	No Data
	04/24/1995	1.0U	14.3J	1.0U	8.5J	21.2J	No Data	1.0U	No Data	8.0U
	10/04/1995	No Data	14.0J	1.1U	6.0U	No Data	No Data	No Data	No Data	6.7U

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value.
[c]Evaluation and investigation of anomalous data points has determined that the 3/31/93 samples from wells 88-85 and 83-70 were inadvertently switched in the laboratory. Results have been corrected; however, the corrected results were not used in any statistical calculations.

Bedrock Groundwaters Metals Data[a]

Sample Location	Sample Date	Cr (µg/L)	Cu (µg/L)	Fe (µg/L)	Hg (µg/L)	Mn (µg/L)	Mo (µg/L)	Ni (µg/L)	Pb (µg/L)	Sb (µg/L)
Crossgradient										
06NW93-206-3	12/02/1993	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
31NE93-205	05/11/1994	4.0U	3.2J	845	No Data	951	27.0U	6.0U	1.0U	No Data
	10/11/1994	2.0U	4.0U	1210	No Data	1020	1.3J	8.0U	1.0U	No Data
	04/20/1995	4.0U	3.0U	1660	No Data	948	1.5J	9.0U	1.0U	No Data
	10/17/1995	No Data	4.4U	No Data	No Data	1000	15.6U	No Data	No Data	35.6U
31SW93-197-2	11/22/1993	4.0U	3.0U	209	0.20U	No Data	29.0U	11.0U	1.0U	43.0U
31SW93-197-3	12/03/1993	235	166	47800	0.20U	No Data	34.2J	258	127	43.0U
95-07	02/14/1996	No Data	4.9R	No Data	No Data	17.0R	28.5R	10.0R	1.1R	4.0R
	04/12/1996	No Data	3.3R	No Data	No Data	64.1R	13.5R	No Data	0.44R	No Data
	07/25/1996	No Data	3.7U	No Data	No Data	142	11.4J	No Data	8.4	No Data
Downgradient										
83-70	11/17/1992	6.0U	4.0U	248	0.10U	266	1.2J	11.0U	1.0U	1.0U
	11/17/1992	6.0U	4.0U	369	0.10U	271	1.0J	11.0U	1.0U	1.0U
	03/01/1993[b]	3.0U	3.0U	355J	0.10U	269	22.0U	9.0U	1.0UJ	1.0U
	04/27/1993	3.0U	6.1J	323	0.10U	272	1.0U	9.0U	1.0U	1.0U
	07/21/1993	4.0U	5.0U	285	0.10U	281	1.0U	14.0U	1.0U	1.0U
	11/02/1993	4.0U	3.0U	464	No Data	278	1.0U	11.0U	1.0U	No Data
	05/10/1994	4.0U	2.0U	370	No Data	266	27.0U	6.0U	1.0U	No Data
	10/11/1994	2.0U	4.0U	353	No Data	269	1.0U	8.0U	1.0U	No Data
	04/25/1995	4.0U	3.0U	401	No Data	272	1.0U	9.0U	1.0U	No Data
	10/11/1995	No Data	4.4U	No Data	No Data	274	15.6U	No Data	No Data	35.6U
84-74	11/04/1992	6.0U	4.0U	603	0.10U	227	1.0U	11.0U	1.0U	1.0U
	03/11/1993	3.0U	3.0U	655J	0.10U	227	22.0U	9.0U	1.0UJ	1.0U
	04/23/1993	3.0U	3.0U	567	0.10U	228	1.0U	9.0U	6.1	2.1J
	07/21/1993	4.0U	23.0J	1180	0.10U	230	1.0U	14.0U	1.0U	1.0U
92-10	11/16/1992	6.0U	4.0U	96.3J	0.10U	313	1.6J	11.0U	1.0U	1.0U
	03/15/1993	3.3J	3.0U	426J	0.10U	327	22.0U	9.0U	3.0J	3.0J
	04/22/1993	3.0U	3.0U	783	0.10U	328	1.0U	9.0U	3.5J	1.0J
	07/22/1993	4.0U	5.0U	1460	0.10U	333	1.1J	14.0U	2.3J	1.0U
	10/28/1993	4.0U	3.0U	492	No Data	319	1.7J	11.0U	1.6J	No Data
	05/09/1994	4.0U	2.0U	2400R	No Data	336R	27.0U	6.0U	3.4R	No Data
	10/05/1994	2.0U	4.0U	545	No Data	342	1.1J	8.0U	1.4J	No Data
	04/24/1995	4.0U	3.0U	715	No Data	357	1.6J	9.0U	1.0U	No Data
	10/04/1995	No Data	4.4U	No Data	No Data	345	15.6U	No Data	No Data	35.6U

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[b]Evaluation and investigation of anomalous data points has determined that the 3/31/93 samples from wells 88-85 and 83-70 were inadvertently switched in the laboratory. Results have been corrected; however, the corrected results were not used in any statistical calculations.

Bedrock Groundwaters Metals Data[a]

Sample Location	Sample Date	Se (µg/L)	Sn (µg/L)	Sr (µg/L)	Tl (µg/L)	U (µg/L)	V (µg/L)	Zn (µg/L)
Crossgradient								
06NW93-206-3	12/02/1993	No Data	No Data	No Data	No Data	No Data	No Data	No Data
31NE93-205	05/11/1994	1.0U	No Data	No Data	1.0U	1.0U	5.0U	12.8J
	10/11/1994	2.0U	No Data	No Data	1.0U	1.0U	6.0U	2.0U
	04/20/1995	1.0U	1.0U	No Data	1.0U	1.0U	4.0U	3.9J
	10/17/1995	1.1U	1.1U	No Data	No Data	No Data	6.7U	10.1J
31SW93-197-2	11/22/1993	2.0UJ	No Data	1250	No Data	1.0U	5.0U	7.5J
31SW93-197-3	12/03/1993	2.2UJ	No Data	2370	No Data	6.0	57.5	440
95-07	02/14/1996	6.0R	1.1R	No Data	No Data	No Data	5.6R	8.1R
	04/12/1996	1.7R	No Data	No Data	No Data	6.8R	6.7R	5.2R
	07/25/1996	1.7U	No Data	No Data	No Data	5.0J	8.6J	41.5
Downgradient								
83-70	11/17/1992	2.0UJ	No Data	1460	1.0U	1.0U	7.0U	11.3J
	11/17/1992	2.0UJ	No Data	1480	1.0U	1.0U	7.0U	19.5J
	03/01/1993[b]	2.0UJ	No Data	1430	1.0U	1.0U	4.0U	16.1J
	04/27/1993	2.0UJ	No Data	1400	2.0U	1.0U	4.0U	28.3
	07/21/1993	3.3UJ	No Data	1440	1.0U	1.0U	8.0U	3.0U
	11/02/1993	2.0UJ	No Data	No Data	1.0U	1.0U	5.0U	7.0U
	05/10/1994	1.0U	No Data	No Data	1.0U	4.3J	5.0U	5.6J
	10/11/1994	2.0U	No Data	No Data	1.0U	1.0U	6.0U	2.0U
	04/25/1995	1.0U	1.0U	No Data	1.0U	1.0U	4.0U	15.3J
	10/11/1995	1.1U	1.1U	No Data	No Data	No Data	23.2J	3.3U
84-74	11/04/1992	3.0U	No Data	1370	1.0U	1.0U	7.0U	6.0U
	03/11/1993	2.0UJ	No Data	1380	1.0U	1.0U	4.0U	3.4J
	04/23/1993	2.0UJ	No Data	1410	2.0U	6.2	4.0U	3.0U
	07/21/1993	3.0U	No Data	1390	1.0U	1.0U	8.0U	3.0U
92-10	11/16/1992	2.0U	No Data	1330	1.0U	1.0U	7.0U	9.2J
	03/15/1993	2.0UJ	No Data	1480	1.0U	1.0U	4.0U	3.0U
	04/22/1993	2.0UJ	No Data	1490	2.0U	1.0U	4.0U	20.9
	07/22/1993	3.0U	No Data	1480	1.0U	1.0U	8.0U	6.0U
	10/28/1993	2.0UJ	No Data	No Data	1.0U	1.0U	5.0U	9.6J
	05/09/1994	1.0U	No Data	No Data	1.0U	2.3J	5.0U	4.0R
	10/05/1994	2.0U	No Data	No Data	1.0U	1.0U	6.0U	8.6J
	04/24/1995	1.0U	1.0U	No Data	1.0U	1.0U	4.0U	6.7J
	10/04/1995	1.1UJ	1.1U	No Data	No Data	No Data	6.7U	3.3U

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Evaluation and investigation of anomalous data points has determined that the 3/31/93 samples from wells 88-85 and 83-70 were inadvertently switched in the laboratory. Results have been corrected; however, the corrected results were not used in any statistical calculations.

Bedrock Groundwaters Metals Data[a]

Sample Location	Sample Date	Ag (µg/L)	Al (µg/L)	As (µg/L)	B (µg/L)	Ba (µg/L)	Be (µg/L)	Cd (µg/L)	CN[b] (µg/L)	Co (µg/L)
Downgradient										
92-10	10/04/1995	No Data	13.3U	1.1U	6.0U	No Data	No Data	No Data	No Data	6.7U
	04/09/1996	No Data	21.0J	0.44U	No Data	No Data	No Data	No Data	No Data	7.8U
92-12	11/02/1993	1.0R	1160R	4.0R	85.8R	107R	No Data	1.0R	No Data	No Data
	05/03/1994	4.0U	790R	2.0U	95.7J	57.7R	No Data	1.0U	No Data	No Data
	10/12/1994	1.0R	4150R	4.4R	85.2R	146R	No Data	1.0R	No Data	No Data
	04/27/1995	1.0R	5730R	1.0R	69.4R	174R	No Data	1.0R	No Data	8.0R
	10/10/1995	No Data	1300R	1.2R	51.5R	No Data	No Data	No Data	No Data	6.7R
	04/12/1996	No Data	249R	0.44U	No Data	No Data	No Data	No Data	No Data	7.8U
95-02	02/12/1996	No Data	13.3U	1.1U	No Data	No Data	No Data	No Data	No Data	5.6U
	04/08/1996	No Data	10.0U	0.44U	No Data	No Data	No Data	No Data	No Data	7.8U
	04/08/1996	No Data	10.0U	0.44U	No Data	No Data	No Data	No Data	No Data	7.8U
	07/23/1996	No Data	34.3J	2.6J	No Data	No Data	No Data	No Data	No Data	6.6U
95-04	02/13/1996	No Data	13.3U	4.4J	No Data	No Data	No Data	No Data	No Data	5.6U
	04/09/1996	No Data	10.0U	0.44U	No Data	No Data	No Data	No Data	No Data	7.8U
	07/24/1996	No Data	31.2U	5.5J	No Data	No Data	No Data	No Data	No Data	6.6U
95-06	02/13/1996	No Data	1470R	1.1U	No Data	No Data	No Data	No Data	No Data	5.6U
	04/10/1996	No Data	176J	0.44U	No Data	No Data	No Data	No Data	No Data	7.8U
	07/26/1996	No Data	413	5.7J	No Data	No Data	No Data	No Data	No Data	6.6U
95-08	02/15/1996	No Data	151J	8.3J	No Data	No Data	No Data	No Data	No Data	5.6U
	04/10/1996	No Data	89.6J	0.44U	No Data	No Data	No Data	No Data	No Data	7.8U
	07/24/1996	No Data	82.7J	11.8	No Data	No Data	No Data	No Data	No Data	6.6U

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. E -- Estimated value.

Bedrock Groundwaters Metals Data[a]

Sample Location	Sample Date	Cr (µg/L)	Cu (µg/L)	Fe (µg/L)	Hg (µg/L)	Mn (µg/L)	Mo (µg/L)	Ni (µg/L)	Pb (µg/L)	Sb (µg/L)
Downgradient										
92-10	10/04/1995	No Data	4.4U	No Data	No Data	343	15.6U	No Data	No Data	35.6U
	04/09/1996	No Data	3.3U	No Data	No Data	355	0.56U	No Data	0.44U	No Data
92-12	11/02/1993	4.0R	3.0R	1320R	No Data	182R	103R	11.0R	4.1R	No Data
	05/03/1994	4.0U	2.0U	603R	No Data	21.9R	109	6.0U	3.3R	No Data
	10/12/1994	2.0R	10.7R	5690R	No Data	247R	101R	8.0R	8.6R	No Data
	04/27/1995	4.0R	40.3R	8180R	No Data	313R	86.1R	9.0R	14.5R	No Data
	10/10/1995	No Data	5.4R	No Data	No Data	13.2R	72.6R	No Data	No Data	35.6R
	04/12/1996	No Data	3.3U	No Data	No Data	3.4R	76.4	No Data	0.44R	No Data
95-02	02/12/1996	No Data	4.4U	No Data	No Data	187	1.1U	10.0U	1.1U	1.1J
	04/08/1996	No Data	3.3U	No Data	No Data	195	0.56U	No Data	0.44U	No Data
	04/08/1996	No Data	3.3U	No Data	No Data	193	0.56U	No Data	0.44U	No Data
	07/23/1996	No Data	3.7U	No Data	No Data	186	1.2J	No Data	0.52J	No Data
95-04	02/13/1996	No Data	4.4U	No Data	No Data	501	10.5J	10.0U	1.1U	1.1U
	04/09/1996	No Data	3.3U	No Data	No Data	481	6.6J	No Data	0.44U	No Data
	07/24/1996	No Data	3.7U	No Data	No Data	465	6.9J	No Data	0.82J	No Data
95-06	02/13/1996	No Data	4.4U	No Data	No Data	254R	1.1U	10.0U	1.1R	1.1U
	04/10/1996	No Data	3.3U	No Data	No Data	355	0.56U	No Data	0.44U	No Data
	07/26/1996	No Data	3.7U	No Data	No Data	432	5.0J	No Data	0.88J	No Data
95-08	02/15/1996	No Data	4.4U	No Data	No Data	86.5	1.1U	10.0U	1.1U	1.1U
	04/10/1996	No Data	3.3U	No Data	No Data	66.0	0.56U	No Data	0.44U	No Data
	07/24/1996	No Data	3.7U	No Data	No Data	62.6	1.3J	No Data	8.0	No Data

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Bedrock Groundwaters Metals Data[a]

Sample Location	Sample Date	Se (µg/L)	Sn (µg/L)	Sr (µg/L)	Tl (µg/L)	U (µg/L)	V (µg/L)	Zn (µg/L)
Downgradient								
92-10	10/04/1995	1.1U	1.1U	No Data	No Data	No Data	6.7U	3.4J
	04/09/1996	1.1UJ	No Data	No Data	No Data	0.22U	6.7U	16.9J
92-12	11/02/1993	2.2R	No Data	No Data	1.0R	7.9R	5.0R	17.6R
	05/03/1994	1.0U	No Data	No Data	1.0U	10.8	5.0U	2.0R
	10/12/1994	2.5R	No Data	No Data	1.0R	6.1R	6.0R	32.6R
	04/27/1995	1.0R	2.7R	No Data	1.0R	4.5R	8.9R	74.3R
	10/10/1995	2.6R	1.1R	No Data	No Data	No Data	6.7R	4.9R
	04/12/1996	2.8J	No Data	No Data	No Data	3.4J	6.7U	6.6R
95-02	02/12/1996	8.1J	1.1U	No Data	No Data	No Data	5.6U	3.6J
	04/08/1996	3.7J	No Data	No Data	No Data	0.34J	6.7U	2.2U
	04/08/1996	4.2J	No Data	No Data	No Data	0.40J	6.7U	13.8J
	07/23/1996	1.7U	No Data	No Data	No Data	0.66J	7.7U	2.0J
95-04	02/13/1996	2.2UJ	1.1U	No Data	No Data	No Data	5.6U	5.4J
	04/09/1996	1.1UJ	No Data	No Data	No Data	9.6	6.7U	10.4J
	07/24/1996	1.7U	No Data	No Data	No Data	5.6	7.7U	4.7J
95-06	02/13/1996	2.2UJ	1.1U	No Data	No Data	No Data	5.6U	245R
	04/10/1996	1.3J	No Data	No Data	No Data	38.0	6.7U	70.6
	07/26/1996	1.7U	No Data	No Data	No Data	46.5	7.7U	36.1
95-08	02/15/1996	2.2UJ	1.1U	No Data	No Data	No Data	5.6U	7.8J
	04/10/1996	1.1UJ	No Data	No Data	No Data	0.72J	6.7U	7.0J
	07/24/1996	1.7U	No Data	No Data	No Data	0.22U	7.7U	9.6J

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Bedrock Groundwaters Radiological Data[a]

Sample Location	Sample Date	Alpha[b] (pCi/L)	Alpha-U[c] (pCi/L)	Beta (pCi/L)	Pb210 (pCi/L)	Po210 (pCi/L)	Ra226 (pCi/L)	Ra228 (pCi/L)	Rn222[d] (pCi/L)	Th230 (pCi/L)
Reference										
06NW93-104-5	11/23/1993	No Data	No Data	No Data	No Data	No Data	0.22	2U	No Data	No Data
31SW93-197-5	11/19/1993	No Data	No Data	No Data	No Data	No Data	0.64U	2U	No Data	No Data
	11/19/1993	No Data	No Data	No Data	No Data	No Data	0.45U	1.4	No Data	No Data
Reference - West of 191										
92-02	12/09/1992	30.U	30.U	30.U	No Data	0.4U	0.5	2U	82	0.3U
	03/16/1993	12.6	0[e]	6.6U	2U	0.18U	0.3	3U	90	0.3U
	04/20/1993	8.9U	8.9U	10.3U	2U	0.18U	1.8	1U	175	0.08U
	07/19/1993	7.6UJ	7.6UJ	6.6U	2U	0.21U	0.65	3U	152	0.13U
	10/28/1993	7.0U	7.0U	6.5U	2U	0.11U	0.50	2U	87	0.26U
	05/03/1994	7.6U	7.6U	6.6U	2U	0.12U	0.56	1.9U	79U	0.12U
	10/03/1994	8.3UJ	8.3UJ	7.1U	2U	0.5U	0.5U	3.8U	122	0.3U
	04/17/1995	9.1U	9.1U	7.3U	2U	0.5U	0.55	4.0U	116	0.3U
	10/02/1995	13.6U	13.6U	10.4U	2U	No Data	0.5U	No Data	120	0.76U
92-04	11/19/1992	40.U	40.U	30.U	No Data	0.3U	0.6	2U	94	0.54
	03/08/1993	13.5U	13.5U	10.0U	2U	0.5U	0.4	2U	90	0.3U
	04/20/1993	12.9U	12.9U	10.5U	2U	0.24U	0.15U	1U	106U	0.07U
	04/20/1993	12.9U	12.9U	10.5U	2U	0.24U	0.53	1U	107U	0.08U
	07/20/1993	13.5UJ	13.5UJ	10.0U	2U	0.17U	0.75	3U	99	0.11U
	10/29/1993	12.3U	12.3U	9.9U	2U	0.10U	0.85	2U	87	0.06U
	10/29/1993	11.9U	11.9U	9.9U	2U	0.11U	1.4	2U	75	0.07U
	04/26/1994	12.5U	12.5U	9.9U	2U	0.10U	0.45	2.5U	85U	0.07U
	10/04/1994	15.5UJ	15.5UJ	14.1U	2U	0.5U	0.58	2.2U	94	0.3U
	04/20/1995	14.2U	14.2U	13.6U	2U	0.5U	0.64	3.7U	90	0.3U
	10/04/1995	17U	17U	10U	2U	No Data	0.67	No Data	86	0.76U
92-06	11/23/1992	30.U	30.U	30.U	No Data	0.3U	0.5	2U	47	0.3U
	03/09/1993	10.2U	10.2U	6.7U	2U	0.90U	0.5	3U	80U	0.3U
	04/21/1993	11.0U	11.0U	10.4U	2U	0.27U	0.57	1.1U	93U	0.07U
	07/20/1993	11.9UJ	11.9UJ	9.9U	2U	0.20U	0.60	1U	117	0.12U
	07/20/1993	12.1UJ	12.1UJ	9.9U	2U	0.14U	1.3	2U	123	0.12U
	10/25/1993	11.2U	11.2U	9.8U	2U	0.08U	0.67	2U	67U	0.16U
	04/26/1994	11.4U	11.4U	9.8U	2U	0.09U	1.9	4.0U	83U	0.12U
	10/06/1994	14.7UJ	14.7UJ	14.1U	2U	0.5U	0.74	4.6U	65	0.3U
	04/20/1995	13.6U	13.6U	13.6U	2U	0.5U	0.74	4.5U	77	0.3U
	10/03/1995	16.4U	16.4U	10.5U	2U	No Data	0.5U	No Data	57	0.76U

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[b]Toal gross alpha excluding radon which is lost during analysis.
[c]Gross alpha minus uranium activity. Result rounded as appropriate.
[d]Unvalidated data.
[e]Uranium activity greater than gross alpha.

Bedrock Groundwaters Radiological Data[a]

Sample Location	Sample Date	Th232 (pCi/L)	U (μg/L)	U234 (pCi/L)	U235 (pCi/L)	U238 (pCi/L)
Reference						
06NW93-104-5	11/23/1993	No Data	1.8J	No Data	No Data	No Data
31SW93-197-5	11/19/1993	No Data	16.9	No Data	No Data	No Data
	11/19/1993	No Data	16.8	No Data	No Data	No Data
Reference - West of 191						
92-02	12/09/1992	0.3U	2.6J	11.6	No Data	0.83
	03/16/1993	0.3U	1.4J	12.2	No Data	3.2
	04/20/1993	0.05U	1.0U	6.9	0.35	0.48
	07/19/1993	0.10U	1.0U	4.2	0.14U	0.22U
	10/28/1993	0.25U	1.0U	2.8	0.10U	0.17U
	05/03/1994	0.11U	1.0U	2.4	0.14U	0.15U
	10/03/1994	0.3U	1.0U	1.1	0.3U	0.3U
	04/17/1995	0.3U	1.0U	0.82	0.3U	0.3U
	10/02/1995	No Data	No Data	0.63U	1.0U	1.0U
92-04	11/19/1992	0.3U	2.8J	11.1	No Data	1.3
	03/08/1993	0.3U	1.0U	4.8	No Data	0.48
	04/20/1993	0.05U	1.0U	3.7	0.10U	0.41
	04/20/1993	0.05U	1.0U	3.6	0.10	0.35
	07/20/1993	0.07U	1.0U	3.2	0.15U	0.30U
	10/29/1993	0.05U	1.0U	4.8	0.24U	0.28U
	10/29/1993	0.05U	1.0U	4.6	0.23U	0.28U
	04/26/1994	0.05U	1.0U	4.4	0.25	0.63
	10/04/1994	0.3U	1.0U	5.0	0.3U	0.3U
	04/20/1995	0.3U	1.0U	3.7	0.3U	0.3U
	10/04/1995	No Data	No Data	3.4U	1.0U	1.0U
92-06	11/23/1992	0.3U	1.0U	1.8	No Data	0.17
	03/09/1993	0.3U	1.0U	0.58	No Data	0.27
	04/21/1993	0.06U	1.0U	1.8	0.12U	0.95
	07/20/1993	0.09U	1.0U	0.34U	0.15U	0.13U
	07/20/1993	0.09U	1.0U	0.28U	0.15U	0.15U
	10/25/1993	0.18U	1.0U	0.16U	0.08U	0.10U
	04/26/1994	0.12U	1.0U	0.10U	0.04U	0.05U
	10/06/1994	0.3U	1.0U	0.32	0.3U	0.3U
	04/20/1995	0.3U	1.0U	0.32	0.3U	0.3U
	10/03/1995	No Data	No Data	0.88U	1.0U	1.0U

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Bedrock Groundwaters Radiological Data[a]

Sample Location	Sample Date	Alpha[b] (pCi/L)	Alpha-U[c] (pCi/L)	Beta (pCi/L)	Pb210 (pCi/L)	Po210 (pCi/L)	Ra226 (pCi/L)	Ra228 (pCi/L)	Rn222[d] (pCi/L)	Th230 (pCi/L)
Reference - West of 191										
92-13	11/02/1993	17.3U	17.3U	19.4U	2U	0.32U	0.19U	2U	209	0.06U
	05/02/1994	16.0U	16.0U	19.0U	2U	0.15U	0.18	1.9U	253	0.07U
	10/12/1994	23U	23U	20U	2U	0.5U	0.5U	1.0U	92	0.3U
	04/24/1995	20U	20U	20U	2U	0.5U	0.5U	1.6U	287	0.3U
	10/10/1995	15U	15U	10U	1.3U	No Data	0.5U	No Data	155	0.76U
On-Site										
31SW93-200-1	11/16/1993	No Data	No Data	No Data	No Data	No Data	0.44U	3U	No Data	No Data
31SW93-200-2	11/17/1993	No Data	No Data	No Data	No Data	No Data	0.58U	3U	No Data	No Data
31SW93-200-3	11/17/1993	No Data	No Data	No Data	No Data	No Data	0.58U	2U	No Data	No Data
31SW93-202-2	11/15/1993	No Data	No Data	No Data	No Data	No Data	0.65U	2U	No Data	No Data
31SW93-203-2	11/16/1993	No Data	No Data	No Data	No Data	No Data	0.62U	4U	No Data	No Data
31SW93-204-2	11/16/1993	No Data	No Data	No Data	No Data	No Data	1.9U	2U	No Data	No Data
	11/16/1993	No Data	No Data	No Data	No Data	No Data	0.82U	2U	No Data	No Data
84-75	12/09/1992	30.U	30.U	30.U	No Data	0.3U	0.8	2U	146	0.3U
	03/10/1993	10.5U	10.5U	6.7U	2U	1.5U	0.8	2U	190	0.42
	04/29/1993	13.6U	13.6U	13.0U	2U	0.26U	0.51U	5U	203	0.14U
	07/28/1993	12.7UJ	12.7UJ	13.3U	2U	0.24UJ	0.75	2U	151	0.17U
84-76	11/18/1992	30.U	30.U	30.U	No Data	0.3U	0.2	1U	147	0.61
	03/03/1993	15.2U	15.2U	19.2U	2U	0.5U	0.3	2U	90	0.3U
	04/28/1993	10.5U	10.5U	9.8U	2U	0.18U	0.66	3U	118	0.12U
	07/27/1993	10.2UJ	10.2UJ	10.0U	2U	0.17UJ	0.34	2U	99	0.13U
84-77	11/11/1992	90	46.5	30U	No Data	0.5U	0.6	2U	76	0.76
	03/02/1993	15.7U	15.7U	19.2U	2U	0.5U	0.5	2U	160	0.3U
	04/27/1993	11.6U	11.6U	9.8U	2U	0.15U	0.35U	4U	121	0.12U
	07/27/1993	12.5UJ	12.5UJ	10.2U	2U	0.40UJ	0.57	2U	142	0.19U
93-01	11/01/1993	25.9	1.6	13.1U	2U	0.30U	1.1	3U	67	0.12U
	05/06/1994	8.8U	8.8U	9.6U	2U	0.11U	0.88	2.4U	108	0.16U
	10/12/1994	14.6U	14.6U	10.2U	2U	0.5U	0.74	5.0U	122	0.3U
	04/27/1995	14.8U	14.8U	11.6U	2U	0.5U	0.93	3.7	120	0.3U
	10/05/1995	17U	17U	10U	2U	No Data	0.75	No Data	110	0.76U
	04/12/1996	7.3UJ-	7.3UJ-	9.9U	1.3U	No Data	0.87	No Data	103	0.10U

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[b]Toal gross alpha excluding radon which is lost during analysis.
[c]Gross alpha minus uranium activity. Result rounded as appropriate.
[d]Unvalidated data.

Bedrock Groundwaters Radiological Data[a]

Sample Location	Sample Date	Th232 (pCi/L)	U (μg/L)	U234 (pCi/L)	U235 (pCi/L)	U238 (pCi/L)
Reference - West of 191						
92-13	11/02/1993	0.05U	1.0R	2.4	0.09U	1.2
	05/02/1994	0.05U	2.5R	3.7	0.08U	1.6
	10/12/1994	0.3U	4.5J	4.8	0.3U	2.1
	04/24/1995	0.3U	1.8J	5.1	0.3U	1.2
	10/10/1995	No Data	No Data	0.6U	1.0U	1.0U
On-Site						
31SW93-200-1	11/16/1993	No Data	2.5J	No Data	No Data	No Data
31SW93-200-2	11/17/1993	No Data	6.9	No Data	No Data	No Data
31SW93-200-3	11/17/1993	No Data	21.5	No Data	No Data	No Data
31SW93-202-2	11/15/1993	No Data	1290	No Data	No Data	No Data
31SW93-203-2	11/16/1993	No Data	16.1	No Data	No Data	No Data
31SW93-204-2	11/16/1993	No Data	34.4	No Data	No Data	No Data
	11/16/1993	No Data	34.2	No Data	No Data	No Data
84-75	12/09/1992	0.3U	1.0U	0.85	No Data	0.32
	03/10/1993	0.56	1.3J	5.5	No Data	5.1
	04/29/1993	0.11U	1.0U	1.1	0.09U	0.49
	07/28/1993	0.12U	1.0U	1.0J	0.24UJ	0.31UJ
84-76	11/18/1992	0.60	1.0U	1.1	No Data	0.86
	03/03/1993	0.3U	1.0U	0.95	No Data	0.37
	04/28/1993	0.09U	1.1J	0.61	0.09U	0.16U
	07/27/1993	0.11U	2.1J	0.28UJ	0.16UJ	0.20UJ
84-77	11/11/1992	0.3U	1.0U	21.4	No Data	22.1
	03/02/1993	0.3U	1.0U	0.45	No Data	0.36
	04/27/1993	0.12U	1.0U	0.17U	0.11U	0.16U
	07/27/1993	0.15U	2.9J	0.26U	0.17U	0.23U
93-01	11/01/1993	0.09U	1.0U	22.8	0.16U	1.5
	05/06/1994	0.16U	13.7	1.9	0.06U	0.08U
	10/12/1994	0.3U	1.0U	1.9	0.3U	0.3U
	04/27/1995	0.3U	1.0U	0.63	0.3U	0.3U
	10/05/1995	No Data	No Data	0.81U	1.0U	1.0U
	04/12/1996	No Data	0.52J	0.36U	0.10U	0.08U

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. J- -- Estimated quantity (underestimate). U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated. UJ- -- Not detected; associated value is estimated (underestimate).

Bedrock Groundwaters Radiological Data[a]

Sample Location	Sample Date	Alpha[b] (pCi/L)	Alpha-U[c] (pCi/L)	Beta (pCi/L)	Pb210 (pCi/L)	Po210 (pCi/L)	Ra226 (pCi/L)	Ra228 (pCi/L)	Rn222[d] (pCi/L)	Th230 (pCi/L)
Crossgradient										
06NW93-206-3	12/02/1993	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
31NE93-205	05/11/1994	36U	36U	33U	2.4	0.26U	1.9	4.0U	134	0.18U
	10/11/1994	29U	29U	20U	2U	0.5U	2.0	3.4	116	0.3U
	04/20/1995	17.2U	17.2U	13.7U	2U	0.5U	1.6	3.1U	112	0.3U
	10/17/1995	14	14[e]	13U	1.4U	No Data	1.7	No Data	119	0.76U
31SW93-197-2	11/22/1993	No Data	No Data	No Data	No Data	No Data	0.78	2U	No Data	No Data
31SW93-197-3	12/03/1993	No Data	No Data	No Data	No Data	No Data	0.37U	2U	No Data	No Data
95-07	02/14/1996	58.7UJ	58.7UJ	49.6U	0.78	No Data	1.4	No Data	30	0.80U
	04/12/1996	33.9UJ-	33.9UJ-	49.6U	1.3U	No Data	1.3	No Data	69	0.11U
	07/25/1996	27.8	16.7	13.6U	1.2U	No Data	2.0	No Data	76	0.03
Downgradient										
83-70	11/17/1992	30.U	30.U	30.U	No Data	0.3U	1.2	2U	317	0.3U
	11/17/1992	30.U	30.U	30.U	No Data	0.3U	1.1	2U	332	0.3U
	03/01/1993[f]	16.0U	16.0U	19.2U	2U	0.5U	1.1	2U	240	0.3U
	04/27/1993	17.1U	17.1U	19.3U	2U	0.15U	0.41U	3U	217	0.21U
	07/21/1993	12.7UJ	12.7UJ	9.9U	2U	0.16U	1.1	3U	298	0.15U
	11/02/1993	12.3U	12.3U	13.0U	2U	0.20U	1.2	3U	224	0.08U
	05/10/1994	11.6U	11.6U	9.8U	2U	0.10U	1.0	2.0U	315	0.12U
	10/11/1994	21U	21U	20U	2U	0.5U	1.3	3.3U	312	0.3U
	04/25/1995	17.1U	17.1U	16.1U	2U	0.5U	1.3	3.6U	318	0.3U
	10/11/1995	14U	14U	10U	1.4U	No Data	1.3	No Data	353	0.76U
84-74	11/04/1992	20U	20U	30U	No Data	0.5U	1.1	2U	87	0.3U
	03/11/1993	11.8U	11.8U	9.9U	2U	0.08U	1.3	2U	240	0.3U
	04/23/1993	41U	41U	51U	2U	0.19U	1.0	1U	219	0.06U
	07/21/1993	12.9UJ	12.9UJ	9.9U	2U	0.14U	1.2	2U	250	0.12U
92-10	11/16/1992	30.U	30.U	30.U	No Data	0.3U	1.0	2U	147	0.38
	03/15/1993	133U	133U	99U	2U	0.09U	1.4	3U	120	0.3U
	04/22/1993	14.1U	14.1U	10.6U	2U	0.19U	0.97	1.4U	111	0.42
	07/22/1993	11.8UJ	11.8UJ	9.9U	2U	0.11U	1.1	2U	167	0.14U
	10/28/1993	13.1U	13.1U	9.9U	2U	0.73U	1.4	3U	77	0.05U
	05/09/1994	11.8U	11.8U	9.8U	2U	0.11U	1.1	2.2U	129	0.08U
	10/05/1994	15.7UJ	15.7UJ	14.1U	2U	0.5U	1.3	4.5	159	0.3U
	04/24/1995	16.4U	16.4U	11.6U	2U	0.5U	1.3	4.9U	176	0.3U
	10/04/1995	19U	19U	10U	2U	No Data	1.2	No Data	184	0.76U

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UJ -- Not detected, associated value is estimated. UJ- -- Not detected; associated value is estimated (underestimate).
[b]Toal gross alpha excluding radon which is lost during analysis.
[c]Gross alpha minus uranium activity. Result rounded as appropriate.
[d]Unvalidated data.
[e]Uranium activty is below detection limits.
[f]Evaluation and investigation of anomalous data points has determined that the 3/31/93 samples from wells 88-85 and 83-70 were inadvertently switched in the laboratory. Results have been corrected; however, the corrected results were not used in any statistical calculations.

Bedrock Groundwaters Radiological Data[a]

Sample Location	Sample Date	Th232 (pCi/L)	U (μg/L)	U234 (pCi/L)	U235 (pCi/L)	U238 (pCi/L)
Crossgradient						
06NW93-206-3	12/02/1993	No Data	No Data	No Data	No Data	No Data
31NE93-205	05/11/1994	0.20U	1.0U	2.3	0.11U	0.10U
	10/11/1994	0.3U	1.0U	1.9	0.3U	0.3U
	04/20/1995	0.3U	1.0U	1.8	0.3U	0.3U
	10/17/1995	No Data	No Data	0.6U	1.0U	1.0U
31SW93-197-2	11/22/1993	No Data	1.0U	No Data	No Data	No Data
31SW93-197-3	12/03/1993	No Data	6.0	No Data	No Data	No Data
95-07	02/14/1996	No Data	No Data	21.5	1.1U	5.0
	04/12/1996	No Data	6.8R	8.0	0.11U	1.6
	07/25/1996	No Data	5.0J	9.0	0.25	1.9
Downgradient						
83-70	11/17/1992	0.3U	1.0U	0.84	No Data	0.40
	11/17/1992	0.3U	1.0U	0.78	No Data	0.19
	03/01/1993[b]	0.3U	1.0U	1.1	No Data	0.52
	04/27/1993	0.13U	1.0U	0.46U	0.18U	0.32U
	07/21/1993	0.15U	1.0U	0.49U	0.19U	0.27U
	11/02/1993	0.06U	1.0U	0.23U	0.13U	0.17U
	05/10/1994	0.13U	4.3J	0.22U	0.11U	0.12U
	10/11/1994	0.3U	1.0U	1.1	0.3U	0.3U
	04/25/1995	0.3U	1.0U	0.53	0.3U	0.3U
	10/11/1995	No Data	No Data	15.3	1.0U	1.0U
84-74	11/04/1992	0.3U	1.0U	0.63	No Data	0.08
	03/11/1993	0.3U	1.0U	0.86	No Data	0.52
	04/23/1993	0.04U	6.2	0.14U	0.06U	0.07U
	07/21/1993	0.08U	1.0U	0.32U	0.11U	0.12U
92-10	11/16/1992	0.18	1.0U	1.9	No Data	0.13
	03/15/1993	0.3U	1.0U	3.9	No Data	1.6
	04/22/1993	0.12	1.0U	4.0	0.15U	1.7
	07/22/1993	0.10U	1.0U	2.5	0.18U	0.50
	10/28/1993	0.05U	1.0U	2.7	0.21U	0.21U
	05/09/1994	0.07U	2.3J	1.7	0.08U	0.07U
	10/05/1994	0.3U	1.0U	1.2	0.3U	0.3U
	04/24/1995	0.3U	1.0U	0.88	0.3U	0.3U
	10/04/1995	No Data	No Data	0.85U	1.0U	1.0U

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[b]Evaluation and investigation of anomalous data points has determined that the 3/31/93 samples from wells 88-85 and 83-70 were inadvertently switched in the laboratory. Results have been corrected; however, the corrected results were not used in any statistical calculations.

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Bedrock Groundwaters Radiological Data[a]

Sample Location	Sample Date	Alpha[b] (pCi/L)	Alpha-U[c] (pCi/L)	Beta (pCi/L)	Pb210 (pCi/L)	Po210 (pCi/L)	Ra226 (pCi/L)	Ra228 (pCi/L)	Rn222[d] (pCi/L)	Th230 (pCi/L)
Downgradient										
92-10	10/04/1995	19U	19U	10U	2U	No Data	1.1	No Data	158	0.76U
	04/09/1996	12.4UJ-	12.4UJ-	13.3U	1.2U	No Data	1.6	No Data	163	0.09U
92-12	11/02/1993	27.8	16.2	19.6U	2U	0.32UJ	0.27	2U	34	0.07U
	05/03/1994	884	874	321	2U	0.13U	0.24	2.0U	78U	0.14U
	10/12/1994	22U	22U	20U	No Data	No Data	No Data	No Data	78U	0.3U
	04/27/1995	23U	23U	23U	2U	0.5U	0.5U	2.8U	52	0.3U
	10/10/1995	16U	16U	10U	2.7U	No Data	1.2	No Data	49	0.76U
	04/12/1996	15.2J-	10.2	14.3U	1.5U	No Data	0.34	No Data	60	0.12U
95-02	02/12/1996	13.2UJ	13.2UJ	12.2U	1.7	No Data	1.0	No Data	206	0.80U
	04/08/1996	8.8UJ-	8.8UJ-	9.4U	1.1U	No Data	1.8	No Data	197	0.14U
	04/08/1996	8.6UJ-	8.6UJ-	9.3U	1.2	No Data	1.7	No Data	184	0.12U
	07/23/1996	5.2	4.6	4.6U	1.2U	No Data	1.4	No Data	159	0.05U
95-04	02/13/1996	40.9UJ	40.9UJ	40.5U	0.43	No Data	2.1	No Data	118	0.80U
	04/09/1996	27.0UJ-	27.0UJ-	31.2U	1.2U	No Data	1.9	No Data	107	0.08U
	07/24/1996	9.4U	9.4U	11.5U	1.2U	No Data	2.2	No Data	121	0.08
95-06	02/13/1996	33.4UJ	33.4UJ	25.4U	1.4	No Data	1.3	No Data	103	0.80U
	04/10/1996	41.9J-	8.0	31.7U	1.2U	No Data	1.2	No Data	93	0.07U
	07/26/1996	60.2	16.8	17.7	1.3U	No Data	1.1	No Data	58	0.04
95-08	02/15/1996	11.9UJ	11.9UJ	12.0U	0.74	No Data	0.52	No Data	194	0.80U
	04/10/1996	13.5UJ-	13.5UJ-	9.8U	1.2U	No Data	1.1	No Data	163	0.09U
	07/24/1996	4.1	2.4	4.6U	1.1U	No Data	0.91	No Data	162	0.04U

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[b]Toal gross alpha excluding radon which is lost during analysis.
[c]Gross alpha minus uranium activity. Result rounded as appropriate.
[d]Unvalidated data.

Bedrock Groundwaters Radiological Data[a]

Sample Location	Sample Date	Th232 (pCi/L)	U (μg/L)	U234 (pCi/L)	U235 (pCi/L)	U238 (pCi/L)
Downgradient						
92-10	10/04/1995	No Data	No Data	0.89U	1.0U	1.0U
	04/09/1996	No Data	0.22U	0.63	0.06U	0.06U
92-12	11/02/1993	0.06U	7.9R	8.9	0.12U	2.7
	05/03/1994	0.14U	10.8	7.7	0.08U	2.3
	10/12/1994	0.3U	6.1R	6.4	0.3U	2.3
	04/27/1995	0.3U	4.5R	6.2	0.3U	1.7
	10/10/1995	No Data	No Data	0.6U	1.0U	1.2J
	04/12/1996	No Data	3.4J	4.0	0.10U	1.0
95-02	02/12/1996	No Data	No Data	1.1	1.1U	1.1U
	04/08/1996	No Data	0.34J	1.0	0.26U	0.33
	04/08/1996	No Data	0.40J	0.48U	0.09U	0.10U
	07/23/1996	No Data	0.66J	0.41	0.04	0.11
95-04	02/13/1996	No Data	No Data	16.2	1.1U	10.6
	04/09/1996	No Data	9.6	4.9	0.16U	3.1
	07/24/1996	No Data	5.6	2.6	0.11	2.0
95-06	02/13/1996	No Data	No Data	12.3	1.1U	8.1
	04/10/1996	No Data	38.0	20.0	0.65	13.3
	07/26/1996	No Data	46.5	25.4	0.87	17.1
95-08	02/15/1996	No Data	No Data	3.9	1.1U	1.1U
	04/10/1996	No Data	0.72J	2.2	0.06U	0.25U
	07/24/1996	No Data	0.22U	1.6	0.03U	0.06

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Appendix C–4

Soil and Sediment Data

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Soil and Sediment Metals, Nitrate, and Sulfate Data[a]

Sample Location	Sample Date	Sample Type	Ag (mg/kg)	Al (mg/kg)	As (mg/kg)	B (mg/kg)	Ba (mg/kg)	Be (mg/kg)	Cd (mg/kg)	Co (mg/kg)	Cr (mg/kg)
Reference - Supplemental Standards											
NR95PB-01 0-8"	12/12/1995	Soil	0.40U	18000	5.7	No Data	145J	0.69	0.10U	5.3	14.2
NR95PB-01 0"	12/12/1995	Soil	0.40U	15300	4.7	No Data	145J	0.59	0.16J	5.1	12.3
NR95PB-02 0-7"	12/12/1995	Soil	0.40U	20000	6.6	No Data	181J	0.78	0.10U	5.4	15.7
NR95PB-02 0"	12/12/1995	Soil	0.40U	15000	4.4	No Data	133J	0.55	0.14J	4.6J	12.4
NR95PB-03 0-8"	12/12/1995	Soil	0.40U	12800	9.7	No Data	101J	0.56	0.10U	4.9J	11.5
NR95PB-03 0"	12/12/1995	Soil	0.40U	12600	6.4	No Data	100J	0.49J	0.13J	4.3J	11.2
NR95PB-04 0-6"	12/20/1995	Soil	0.40U	19700	5.1J	No Data	158	0.65	0.10U	5.7	16.9
NR95PB-04 0"	12/20/1995	Soil	0.40UJ	14200	4.2	No Data	145	0.55	0.10U	4.9J	12.5
NR95PB-05 0-2"	12/19/1995	Soil	0.40UJ	12400	6.2	No Data	147	0.58	0.10U	5.7	9.2
NR95PB-05 0"	12/19/1995	Soil	0.40UJ	8180	4.3	No Data	125	0.34J	0.13J	3.7J	34.2
NR95PB-06 0-2"	12/19/1995	Soil	0.40UJ	12600	4.5	No Data	127	0.53	0.10U	4.5J	9.7
NR95PB-06 0"	12/19/1995	Soil	0.40UJ	13600	5.0	No Data	136	0.54	0.12J	4.7J	10.5
NR95PB-104 0-6"	12/20/1995	Soil	0.40U	18200	5.4J	No Data	151	0.66	0.10U	5.5	15.9
NR95PB-104 0"	12/20/1995	Soil	0.40U	15000	4.5J	No Data	149	0.61	0.10U	4.8J	12.9
Reference - Vega											
13SD95-01 0-3"	08/29/1995	Sediment	No Data	32600	5.9	21.0	No Data	No Data	No Data	7.4	No Data
13SD95-01 0-3" (Dup)	08/29/1995	Sediment	No Data	27700	4.5J	15.5	No Data	No Data	No Data	7.3	No Data
Reference - Verdure											
10SD95-01 0-3"	08/24/1995	Sediment	No Data	10700	4.6J	3.7J	No Data	No Data	No Data	5.3	No Data
10SS95-01 0-3"	07/26/1995	Soil	No Data	10800	4.3J	0.6U	No Data	No Data	No Data	4.1J	No Data
10SS95-01 3-24"	07/26/1995	Soil	No Data	9790	4.1J	0.6U	No Data	No Data	No Data	4.1J	No Data
10SS95-02 0-3"	07/26/1995	Soil	No Data	8090	12.1J	0.6U	No Data	No Data	No Data	3.9J	No Data
10SS95-02 3-24"	07/26/1995	Soil	No Data	7640	4.7J	0.6U	No Data	No Data	No Data	5.1	No Data
10SS95-02 3-24" (Dup)	07/27/1995	Soil	No Data	8180	5.0J	0.6U	No Data	No Data	No Data	4.9J	No Data
11SD95-01 0-3"	08/24/1995	Sediment	No Data	9960	4.3J	3.3J	No Data	No Data	No Data	4.6J	No Data
11SS95-01 0-3"	07/31/1995	Soil	No Data	12100	5.1	8.7J	No Data	No Data	No Data	4.1J	No Data
11SS95-01 3-24"	07/31/1995	Soil	No Data	11700	5.4	6.5J	No Data	No Data	No Data	4.7J	No Data
11SS95-02 0-3"	07/27/1995	Soil	No Data	10500	2.3J	0.6U	No Data	No Data	No Data	4.3J	No Data
11SS95-02 3-24"	07/27/1995	Soil	No Data	10900	2.2J	0.6U	No Data	No Data	No Data	4.8J	No Data
12SD95-01 0-3"	08/24/1995	Sediment	No Data	12700	4.6J	5.4J	No Data	No Data	No Data	5.1	No Data
12SS95-01 0-3"	07/31/1995	Soil	No Data	8450	2.4J	0.6U	No Data	No Data	No Data	3.6J	No Data
12SS95-01 3-24"	07/31/1995	Soil	No Data	11300	3.1	0.6U	No Data	No Data	No Data	4.5J	No Data
12SS95-02 0-3"	08/01/1995	Soil	No Data	12100	2.8	0.6U	No Data	No Data	No Data	5.2	No Data
12SS95-02 3-24"	08/01/1995	Soil	No Data	12300	3.3	6.1J	No Data	No Data	No Data	5.2	No Data
12SS95-02 3-24" (Dup)	08/01/1995	Soil	No Data	11300	3.7	0.6U	No Data	No Data	No Data	5.2	No Data
14SD96-01 0-3"	05/20/1996	Sediment	No Data	14400	5.5J	No Data	No Data	No Data	No Data	5.6	No Data
14SD96-02 0-3"	05/20/1996	Sediment	No Data	9670	5.4J	No Data	No Data	No Data	No Data	7.0	No Data
14SD96-03 0-3"	05/20/1996	Sediment	No Data	13100	5.1J	No Data	No Data	No Data	No Data	5.5	No Data

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.

Soil and Sediment Metals, Nitrate, and Sulfate Data[a]

Sample Location	Sample Date	Sample Type	Cu (mg/kg)	Fe (mg/kg)	Hg (mg/kg)	Mn (mg/kg)	Mo (mg/kg)	Na (mg/kg)	Ni (mg/kg)	NO_3+NO_2-N[b] (mg/kg)	Pb (mg/kg)
Reference - Supplemental Standards											
NR95PB-01 0-8"	12/12/1995	Soil	10.7	14200	No Data	363	1.9UJ	No Data	11.2	No Data	12.3
NR95PB-01 0"	12/12/1995	Soil	15.1	12000	No Data	342	1.9UJ	No Data	11.8	No Data	16.8
NR95PB-02 0-7"	12/12/1995	Soil	12.5	15600	No Data	375	1.9UJ	No Data	12.1	No Data	12.3
NR95PB-02 0"	12/12/1995	Soil	20.1	11600	No Data	341	1.9UJ	No Data	10.7	No Data	17.7
NR95PB-03 0-8"	12/12/1995	Soil	15.3	13000	No Data	330	1.9UJ	No Data	13.0	No Data	13.3
NR95PB-03 0"	12/12/1995	Soil	16.8	11500	No Data	302	1.9UJ	No Data	11.1	No Data	14.7
NR95PB-04 0-6"	12/20/1995	Soil	15.0	15200	No Data	410	1.9UJ	No Data	12.4	No Data	13.6
NR95PB-04 0"	12/20/1995	Soil	14.1J	12500	No Data	378	1.9U	No Data	11.2	No Data	13.5
NR95PB-05 0-2"	12/19/1995	Soil	9.4J	15900	No Data	473	1.9U	No Data	13.1	No Data	13.1
NR95PB-05 0"	12/19/1995	Soil	13.8J	10400	No Data	306	1.9U	No Data	17.6	No Data	11.7
NR95PB-06 0-2"	12/19/1995	Soil	10.1J	12200	No Data	340	1.9U	No Data	9.7	No Data	12.0
NR95PB-06 0"	12/19/1995	Soil	12.2J	12200	No Data	341	1.9U	No Data	9.0	No Data	11.9
NR95PB-104 0-6"	12/20/1995	Soil	14.6	14700	No Data	404	1.9UJ	No Data	12.8	No Data	13.9
NR95PB-104 0"	12/20/1995	Soil	15.0	13100	No Data	386	1.9UJ	No Data	16.0	No Data	12.9
Reference - Vega											
13SD95-01 0-3"	08/29/1995	Sediment	16.4	No Data	No Data	443	2.6U	418J	No Data	1.1	No Data
13SD95-01 0-3" (Dup)	08/29/1995	Sediment	15.9	No Data	No Data	432	2.6U	371J	No Data	1.1	No Data
Reference - Verdure											
10SD95-01 0-3"	08/24/1995	Sediment	13.5	No Data	No Data	318	2.6UJ	172J	No Data	0.22B	No Data
10SS95-01 0-3"	07/26/1995	Soil	8.0	No Data	No Data	329	2.6UJ	79.0J	No Data	2.5N	No Data
10SS95-01 3-24"	07/26/1995	Soil	7.6	No Data	No Data	349	2.6UJ	110J	No Data	2.2N	No Data
10SS95-02 0-3"	07/26/1995	Soil	7.2	No Data	No Data	344	2.6UJ	101J	No Data	1.7N	No Data
10SS95-02 3-24"	07/26/1995	Soil	6.9	No Data	No Data	440	2.6UJ	120J	No Data	2.1N	No Data
10SS95-02 3-24" (Dup)	07/27/1995	Soil	7.4	No Data	No Data	420	2.6UJ	143J	No Data	1.9N	No Data
11SD95-01 0-3"	08/24/1995	Sediment	10.5	No Data	No Data	326	2.6UJ	147J	No Data	0.41B	No Data
11SS95-01 0-3"	07/31/1995	Soil	7.7	No Data	No Data	377	2.6U	132J	No Data	1.9	No Data
11SS95-01 3-24"	07/31/1995	Soil	6.9	No Data	No Data	361	2.6U	159J	No Data	1.6	No Data
11SS95-02 0-3"	07/27/1995	Soil	8.5	No Data	No Data	338	2.6UJ	58.5J	No Data	1.4N	No Data
11SS95-02 3-24"	07/27/1995	Soil	8.2	No Data	No Data	324	2.6UJ	69.9J	No Data	2.3N	No Data
12SD95-01 0-3"	08/24/1995	Sediment	10.6	No Data	No Data	394	2.6UJ	155J	No Data	0.44B	No Data
12SS95-01 0-3"	07/31/1995	Soil	6.9	No Data	No Data	324	2.6U	157J	No Data	1.3	No Data
12SS95-01 3-24"	07/31/1995	Soil	8.2	No Data	No Data	335	2.6U	149J	No Data	1.9	No Data
12SS95-02 0-3"	08/01/1995	Soil	10.1	No Data	No Data	446	2.6U	90.3J	No Data	1.6	No Data
12SS95-02 3-24"	08/01/1995	Soil	9.7	No Data	No Data	440	2.6U	85.9J	No Data	2.1	No Data
12SS95-02 3-24" (Dup)	08/01/1995	Soil	9.3	No Data	No Data	437	2.6U	80.6J	No Data	2.0	No Data
14SD96-01 0-3"	05/20/1996	Sediment	11.3	No Data	No Data	329	0.68J	170J	No Data	0.72*	11.6
14SD96-02 0-3"	05/20/1996	Sediment	13.1	No Data	No Data	431	0.99J	233J	No Data	1.2*	13.2
14SD96-03 0-3"	05/20/1996	Sediment	10.6	No Data	No Data	359	0.55J	149J	No Data	0.83*	11.7

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[b]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. * -- Duplicate analysis is not within control limits.

Soil and Sediment Metals, Nitrate, and Sulfate Data[a]

Sample Location	Sample Date	Sample Type	Sb (mg/kg)	Se (mg/kg)	Sn (mg/kg)	SO_4[b] (mg/kg)	Tl (mg/kg)	U (mg/kg)	V (mg/kg)	Zn (mg/kg)
Reference - Supplemental Standards										
NR95PB-01 0-8"	12/12/1995	Soil	4.1UJ	0.30U	0.10UJ	No Data	0.18J	8.2	43.9	36.2
NR95PB-01 0"	12/12/1995	Soil	4.1UJ	0.30U	0.11J	No Data	0.23J	16.3	65.3	40.5
NR95PB-02 0-7"	12/12/1995	Soil	4.1UJ	0.30U	0.10UJ	No Data	0.18J	6.6	39.4	39.2
NR95PB-02 0"	12/12/1995	Soil	4.1UJ	0.30U	0.15J	No Data	0.17J	10.4	43.5	42.6
NR95PB-03 0-8"	12/12/1995	Soil	4.1UJ	0.30U	0.10UJ	No Data	0.22J	6.8	39.0	40.9
NR95PB-03 0"	12/12/1995	Soil	4.1UJ	0.30U	0.10J	No Data	0.18J	6.6	35.3	42.6
NR95PB-04 0-6"	12/20/1995	Soil	4.1UJ	0.30UJ	0.23J	No Data	0.16J	5.7	43.8	61.6
NR95PB-04 0"	12/20/1995	Soil	4.1UJ	0.30U	0.22J	No Data	0.12J	5.0	30.4	59.5
NR95PB-05 0-2"	12/19/1995	Soil	4.1UJ	0.30U	0.11J	No Data	0.10U	4.0	30.9	38.5
NR95PB-05 0"	12/19/1995	Soil	4.1UJ	0.30U	0.11J	No Data	0.10U	4.2	21.2	29.9
NR95PB-06 0-2"	12/19/1995	Soil	4.1UJ	0.30U	0.10UJ	No Data	0.10U	4.4	22.5	35.0
NR95PB-06 0"	12/19/1995	Soil	4.1UJ	0.30U	0.10UJ	No Data	0.10U	4.3	24.3	40.3
NR95PB-104 0-6"	12/20/1995	Soil	4.1UJ	0.30UJ	0.25J	No Data	0.15J	5.4	40.7	60.9
NR95PB-104 0"	12/20/1995	Soil	4.1UJ	0.30UJ	0.16J	No Data	0.12J	5.0	32.2	60.8
Reference - Vega										
13SD95-01 0-3"	08/29/1995	Sediment	No Data	0.55J	0.10R	391	No Data	No Data	40.0	59.5
13SD95-01 0-3" (Dup)	08/29/1995	Sediment	No Data	1.8J	0.10R	383	No Data	No Data	32.9	57.9
Reference - Verdure										
10SD95-01 0-3"	08/24/1995	Sediment	No Data	0.55J	0.10R	33.9*	No Data	No Data	18.6	44.1
10SS95-01 0-3"	07/26/1995	Soil	No Data	0.37J	0.10R	7.8	No Data	No Data	20.4	34.1
10SS95-01 3-24"	07/26/1995	Soil	No Data	0.20UJ	0.10R	7.2	No Data	No Data	18.5	30.8
10SS95-02 0-3"	07/26/1995	Soil	No Data	0.20UJ	0.10R	388	No Data	No Data	17.3	33.4
10SS95-02 3-24"	07/26/1995	Soil	No Data	0.20UJ	0.10R	59.7	No Data	No Data	19.0	29.2
10SS95-02 3-24" (Dup)	07/27/1995	Soil	No Data	0.22J	0.10R	42.4	No Data	No Data	18.9	31.9
11SD95-01 0-3"	08/24/1995	Sediment	No Data	0.22UJ	0.10R	34.9*	No Data	No Data	15.9	35.9
11SS95-01 0-3"	07/31/1995	Soil	No Data	0.49J	0.10R	18.3	No Data	No Data	22.3	31.7
11SS95-01 3-24"	07/31/1995	Soil	No Data	0.20UJ	0.10R	7.3	No Data	No Data	23.4	30.9
11SS95-02 0-3"	07/27/1995	Soil	No Data	0.46J	0.10R	3.4	No Data	No Data	14.3	27.0
11SS95-02 3-24"	07/27/1995	Soil	No Data	0.20U	0.10R	10.5	No Data	No Data	14.4	30.0
12SD95-01 0-3"	08/24/1995	Sediment	No Data	0.22J	0.10R	16.4*	No Data	No Data	20.2	39.0
12SS95-01 0-3"	07/31/1995	Soil	No Data	0.29J	0.10R	52.2	No Data	No Data	15.0	28.2
12SS95-01 3-24"	07/31/1995	Soil	No Data	0.33J	0.10R	37.7	No Data	No Data	17.2	38.4
12SS95-02 0-3"	08/01/1995	Soil	No Data	0.20UJ	0.10R	3.3	No Data	No Data	17.3	41.2
12SS95-02 3-24"	08/01/1995	Soil	No Data	0.35J	0.10R	4.5	No Data	No Data	16.9	39.9
12SS95-02 3-24" (Dup)	08/01/1995	Soil	No Data	0.22U	0.10R	4.2	No Data	No Data	15.2	49.1
14SD96-01 0-3"	05/20/1996	Sediment	No Data	1.7	No Data	167*	No Data	3.7	21.9	39.7
14SD96-02 0-3"	05/20/1996	Sediment	No Data	2.1	No Data	191*	No Data	3.8	16.9	46.3
14SD96-03 0-3"	05/20/1996	Sediment	No Data	1.8	No Data	103*	No Data	4.2	19.1	40.2

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Soil and Sediment Metals, Nitrate, and Sulfate Data[a]

Sample Location	Sample Date	Sample Type	Ag (mg/kg)	Al (mg/kg)	As (mg/kg)	B (mg/kg)	Ba (mg/kg)	Be (mg/kg)	Cd (mg/kg)	Co (mg/kg)	Cr (mg/kg)
Reference - Verdure											
14SD96-04 0-3"	05/20/1996	Sediment	No Data	12900	5.3J	No Data	No Data	No Data	No Data	5.9	No Data
14SD96-05 0-3"	05/20/1996	Sediment	No Data	8600	5.3J	No Data	No Data	No Data	No Data	5.9	No Data
14SD96-06 36-42"	06/05/1996	Sediment	No Data	11300	5.6	No Data	No Data	No Data	No Data	6.6	No Data
14SS96-N 0-3"	05/20/1996	Soil	No Data	12100	4.8	No Data	No Data	No Data	No Data	4.9J	No Data
14SS96-N 3-24"	05/20/1996	Soil	No Data	12000	4.6	No Data	No Data	No Data	No Data	4.2J	No Data
14SS96-S 0-3"	05/20/1996	Soil	No Data	15800	4.0	No Data	No Data	No Data	No Data	5.1	No Data
14SS96-S 3-24"	05/20/1996	Soil	No Data	15400	4.2	No Data	No Data	No Data	No Data	5.1	No Data
15SD96-01 0-3"	05/20/1996	Sediment	No Data	19100	9.0J	No Data	No Data	No Data	No Data	9.9	No Data
15SS96-N 0-3"	05/20/1996	Soil	No Data	10800	4.3	No Data	No Data	No Data	No Data	5.3	No Data
15SS96-N 3-24"	05/20/1996	Soil	No Data	15000	6.5	No Data	No Data	No Data	No Data	5.3	No Data
15SS96-S 0-3"	05/20/1996	Soil	No Data	16700	4.2	No Data	No Data	No Data	No Data	6.5	No Data
15SS96-S 3-24"	05/20/1996	Soil	No Data	18600	4.8	No Data	No Data	No Data	No Data	5.8	No Data
16SD96-01 0-3"	05/21/1996	Sediment	No Data	19300	10.0J	No Data	No Data	No Data	No Data	9.8	No Data
16SS96-N 0-3"	05/21/1996	Soil	No Data	14900	4.8	No Data	No Data	No Data	No Data	4.5J	No Data
16SS96-N 3-24"	05/21/1996	Soil	No Data	9230	4.4	No Data	No Data	No Data	No Data	4.6J	No Data
16SS96-S 0-3"	05/21/1996	Soil	No Data	10200	4.6	No Data	No Data	No Data	No Data	4.4J	No Data
16SS96-S 3-24"	05/21/1996	Soil	No Data	17100	4.7	No Data	No Data	No Data	No Data	5.6	No Data
17SD96-01 0-3"	05/21/1996	Sediment	No Data	14500	7.1J	No Data	No Data	No Data	No Data	4.5J	No Data
17SS96-N 0-3"	05/21/1996	Soil	No Data	12300	4.2	No Data	No Data	No Data	No Data	2.0J	No Data
17SS96-N 3-24"	05/21/1996	Soil	No Data	7820	4.2	No Data	No Data	No Data	No Data	3.0J	No Data
17SS96-S 0-3"	05/21/1996	Soil	No Data	7280	3.3	No Data	No Data	No Data	No Data	2.4J	No Data
17SS96-S 0-3" (Dup)	05/21/1996	Soil	No Data	11200	5.5	No Data	No Data	No Data	No Data	2.9J	No Data
17SS96-S 3-24"	05/21/1996	Soil	No Data	8230	3.8	No Data	No Data	No Data	No Data	3.0J	No Data
Down-Gradient - Upper Montezuma Creek											
01SD95-01 0-3"	08/25/1995	Sediment	No Data	24900	6.4J	10.9	No Data	No Data	No Data	6.6	No Data
01SS95-01 0-3"	07/17/1995	Soil	No Data	14200	5.7J	7.6J	No Data	No Data	No Data	8.1	No Data
01SS95-01 3-24"	07/17/1995	Soil	No Data	13600	7.0J	0.6U	No Data	No Data	No Data	8.2	No Data
01SS95-02 0-3"	07/18/1995	Soil	No Data	13700	3.1J	0.6U	No Data	No Data	No Data	6.7	No Data
01SS95-02 3-24"	07/18/1995	Soil	No Data	16100	5.1J	0.6U	No Data	No Data	No Data	6.6	No Data
02SD95-01 0-3"	08/25/1995	Sediment	No Data	16200	5.7J	7.9J	No Data	No Data	No Data	5.9	No Data
02SS95-01 0-3"	07/17/1995	Soil	No Data	11700	3.4J	0.6U	No Data	No Data	No Data	5.4	No Data
02SS95-01 3-24"	07/17/1995	Soil	No Data	13200	3.7J	0.6U	No Data	No Data	No Data	6.3	No Data
02SS95-02 0-3"	07/17/1995	Soil	No Data	14300	2.9J	0.6U	No Data	No Data	No Data	5.9	No Data
02SS95-02 3-24"	07/17/1995	Soil	No Data	16400	4.2J	0.6U	No Data	No Data	No Data	6.4	No Data
03SD95-01 0-3"	08/25/1995	Sediment	No Data	13500	11.2J	3.7J	No Data	No Data	No Data	6.4	No Data
03SS95-01 0-3"	07/18/1995	Soil	No Data	10000	10.2J	0.6U	No Data	No Data	No Data	9.2	No Data
03SS95-01 3-24"	07/18/1995	Soil	No Data	13500	8.6J	0.6U	No Data	No Data	No Data	8.8	No Data
03SS95-01 3-24" (Dup)	07/18/1995	Soil	No Data	12700	10.5J	0.6U	No Data	No Data	No Data	9.2	No Data

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Soil and Sediment Metals, Nitrate, and Sulfate Data[a]

Sample Location	Sample Date	Sample Type	Cu (mg/kg)	Fe (mg/kg)	Hg (mg/kg)	Mn (mg/kg)	Mo (mg/kg)	Na (mg/kg)	Ni (mg/kg)	NO_3+NO_2-N[b] (mg/kg)	Pb (mg/kg)
Reference - Verdure											
14SD96-04 0-3"	05/20/1996	Sediment	11.3	No Data	No Data	322	0.77J	171J	No Data	0.82*	12.7
14SD96-05 0-3"	05/20/1996	Sediment	11.3	No Data	No Data	352	0.78J	148J	No Data	0.38*	12.9
14SD96-06 36-42"	06/05/1996	Sediment	47.3	No Data	No Data	436	0.64J	141J	No Data	0.08B	12.2
14SS96-N 0-3"	05/20/1996	Soil	8.4	No Data	No Data	396	0.91J	240J	No Data	6.1*	10.2
14SS96-N 3-24"	05/20/1996	Soil	7.3	No Data	No Data	452	0.83J	173J	No Data	3.2*	8.6
14SS96-S 0-3"	05/20/1996	Soil	7.6	No Data	No Data	1060	0.73J	214J	No Data	2.4*	9.4
14SS96-S 3-24"	05/20/1996	Soil	8.0	No Data	No Data	1100	0.67J	209J	No Data	1.6*	9.3
15SD96-01 0-3"	05/20/1996	Sediment	15.3	No Data	No Data	4390	1.4J	307J	No Data	0.94*	29.1
15SS96-N 0-3"	05/20/1996	Soil	9.1	No Data	No Data	371	0.70J	137J	No Data	1.9*	9.3
15SS96-N 3-24"	05/20/1996	Soil	7.9	No Data	No Data	397	0.88J	197J	No Data	1.6*	9.8
15SS96-S 0-3"	05/20/1996	Soil	11.0	No Data	No Data	462	0.49J	94.9J	No Data	1.4*	9.9
15SS96-S 3-24"	05/20/1996	Soil	9.6	No Data	No Data	414	0.51J	113J	No Data	1.9*	9.7
16SD96-01 0-3"	05/21/1996	Sediment	15.9	No Data	No Data	2650	1.2J	297J	No Data	0.79*	20.0
16SS96-N 0-3"	05/21/1996	Soil	7.7	No Data	No Data	283	0.65J	203J	No Data	2.1*	8.6
16SS96-N 3-24"	05/21/1996	Soil	7.7	No Data	No Data	277	0.74J	169J	No Data	1.3*	8.7
16SS96-S 0-3"	05/21/1996	Soil	7.7	No Data	No Data	396	0.58J	91.7J	No Data	2.0*	8.5
16SS96-S 3-24"	05/21/1996	Soil	9.6	No Data	No Data	435	0.64J	114J	No Data	2.2*	9.6
17SD96-01 0-3"	05/21/1996	Sediment	10.3	No Data	No Data	562	0.46J	358J	No Data	0.83*	14.1
17SS96-N 0-3"	05/21/1996	Soil	5.1	No Data	No Data	395	0.31U	261J	No Data	2.7*	6.9
17SS96-N 3-24"	05/21/1996	Soil	6.7	No Data	No Data	433	0.35U	227J	No Data	1.3*	8.1
17SS96-S 0-3"	05/21/1996	Soil	4.9	No Data	No Data	344	0.25U	256J	No Data	1.8*	6.2
17SS96-S 0-3" (Dup)	05/21/1996	Soil	5.9	No Data	No Data	446	0.32U	235J	No Data	1.5*	7.9
17SS96-S 3-24"	05/21/1996	Soil	5.6	No Data	No Data	394	0.28U	231J	No Data	1.2*	7.2
Down-Gradient - Upper Montezuma Creek											
01SD95-01 0-3"	08/25/1995	Sediment	20.6	No Data	No Data	365	2.6UJ	337J	No Data	0.33B	No Data
01SS95-01 0-3"	07/17/1995	Soil	56.9	No Data	No Data	444	2.6UJ	339J	No Data	2.2*	No Data
01SS95-01 3-24"	07/17/1995	Soil	67.8	No Data	No Data	472	2.6UJ	274J	No Data	1.7*	No Data
01SS95-02 0-3"	07/18/1995	Soil	17.1	No Data	No Data	509	2.6UJ	140J	No Data	3.9*	No Data
01SS95-02 3-24"	07/18/1995	Soil	16.5	No Data	No Data	494	2.6UJ	213J	No Data	2.2*	No Data
02SD95-01 0-3"	08/25/1995	Sediment	21.1	No Data	No Data	275	2.6UJ	269J	No Data	0.65B	No Data
02SS95-01 0-3"	07/17/1995	Soil	24.1	No Data	No Data	324	2.6UJ	113J	No Data	2.4*	No Data
02SS95-01 3-24"	07/17/1995	Soil	15.4	No Data	No Data	308	2.6UJ	183J	No Data	2.4*	No Data
02SS95-02 0-3"	07/17/1995	Soil	12.5	No Data	No Data	469	2.6UJ	94.6J	No Data	4.4*	No Data
02SS95-02 3-24"	07/17/1995	Soil	13.3	No Data	No Data	525	2.6UJ	200J	No Data	1.9*	No Data
03SD95-01 0-3"	08/25/1995	Sediment	20.6	No Data	No Data	454	2.6UJ	346J	No Data	0.78B	No Data
03SS95-01 0-3"	07/18/1995	Soil	91.9	No Data	No Data	370	2.6UJ	428J	No Data	2.4*	No Data
03SS95-01 3-24"	07/18/1995	Soil	70.6	No Data	No Data	470	2.6UJ	464J	No Data	3.1*	No Data
03SS95-01 3-24" (Dup)	07/18/1995	Soil	71.8	No Data	No Data	487	2.6UJ	408J	No Data	2.2*	No Data

[a] Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b] Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit (DL). N -- Spiked sample recovery is not within control limits. * -- Duplicate analysis is not within control limits.

Soil and Sediment Metals, Nitrate, and Sulfate Data[a]

Sample Location	Sample Date	Sample Type	Sb (mg/kg)	Se (mg/kg)	Sn (mg/kg)	SO_4[b] (mg/kg)	Tl (mg/kg)	U (mg/kg)	V (mg/kg)	Zn (mg/kg)
Reference - Verdure										
14SD96-04 0-3"	05/20/1996	Sediment	No Data	2.3	No Data	132*	No Data	4.1	20.4	44.5
14SD96-05 0-3"	05/20/1996	Sediment	No Data	2.2	No Data	93.7*	No Data	3.8	14.7	42.3
14SD96-06 36-42"	06/05/1996	Sediment	No Data	1.5	No Data	681	No Data	3.7	16.4	50.1
14SS96-N 0-3"	05/20/1996	Soil	No Data	1.1	No Data	68.0*	No Data	2.5	23.1	35.1
14SS96-N 3-24"	05/20/1996	Soil	No Data	1.3	No Data	64.8*	No Data	2.4	21.2	30.5
14SS96-S 0-3"	05/20/1996	Soil	No Data	0.99	No Data	80.4*	No Data	2.7	24.0	31.9
14SS96-S 3-24"	05/20/1996	Soil	No Data	1.5	No Data	66.0*	No Data	2.7	22.9	32.7
15SD96-01 0-3"	05/20/1996	Sediment	No Data	5.3	No Data	354*	No Data	3.9	28.6	59.6
15SS96-N 0-3"	05/20/1996	Soil	No Data	1.4	No Data	121*	No Data	2.7	18.1	32.9
15SS96-N 3-24"	05/20/1996	Soil	No Data	1.8	No Data	99.2*	No Data	3.2	31.1	33.4
15SS96-S 0-3"	05/20/1996	Soil	No Data	1.3	No Data	4.5*	No Data	2.8	22.6	45.7
15SS96-S 3-24"	05/20/1996	Soil	No Data	1.8	No Data	4.8*	No Data	2.7	25.6	40.5
16SD96-01 0-3"	05/21/1996	Sediment	No Data	5.2	No Data	181*	No Data	4.1	29.1	63.3
16SS96-N 0-3"	05/21/1996	Soil	No Data	1.3	No Data	123*	No Data	2.6	25.2	33.5
16SS96-N 3-24"	05/21/1996	Soil	No Data	1.3	No Data	153*	No Data	2.9	16.7	30.0
16SS96-S 0-3"	05/21/1996	Soil	No Data	0.98	No Data	6.5*	No Data	2.7	17.7	29.9
16SS96-S 3-24"	05/21/1996	Soil	No Data	1.5	No Data	6.3*	No Data	2.6	26.7	39.1
17SD96-01 0-3"	05/21/1996	Sediment	No Data	3.5	No Data	128*	No Data	3.4	18.1	39.3
17SS96-N 0-3"	05/21/1996	Soil	No Data	1.4	No Data	167*	No Data	2.1	16.6	23.2
17SS96-N 3-24"	05/21/1996	Soil	No Data	1.5	No Data	231*	No Data	2.6	9.5	24.4
17SS96-S 0-3"	05/21/1996	Soil	No Data	0.99	No Data	94.6*	No Data	1.8	9.8	19.1
17SS96-S 0-3" (Dup)	05/21/1996	Soil	No Data	1.2	No Data	82.7*	No Data	2.4	18.6	27.4
17SS96-S 3-24"	05/21/1996	Soil	No Data	1.0	No Data	104*	No Data	2.3	10.3	22.8
Down-Gradient - Upper Montezuma Creek										
01SD95-01 0-3"	08/25/1995	Sediment	No Data	1.0UJ	0.10R	448*	No Data	No Data	63.0	72.7
01SS95-01 0-3"	07/17/1995	Soil	No Data	0.81	0.10R	709	No Data	No Data	67.3	68.8
01SS95-01 3-24"	07/17/1995	Soil	No Data	1.4J	0.10R	745	No Data	No Data	71.5	61.7
01SS95-02 0-3"	07/18/1995	Soil	No Data	0.39J	0.10R	5.7	No Data	No Data	33.4	56.1
01SS95-02 3-24"	07/18/1995	Soil	No Data	0.51	0.10R	17.9	No Data	No Data	40.2	51.7
02SD95-01 0-3"	08/25/1995	Sediment	No Data	0.20UJ	0.10R	283*	No Data	No Data	62.7	56.2
02SS95-01 0-3"	07/17/1995	Soil	No Data	0.59J	0.10R	6.7	No Data	No Data	67.8	54.2
02SS95-01 3-24"	07/17/1995	Soil	No Data	0.34J	0.10R	121	No Data	No Data	33.3	52.1
02SS95-02 0-3"	07/17/1995	Soil	No Data	0.43J	0.10R	9.8	No Data	No Data	20.4	45.2
02SS95-02 3-24"	07/17/1995	Soil	No Data	0.39J	0.10R	21.0	No Data	No Data	23.0	46.4
03SD95-01 0-3"	08/25/1995	Sediment	No Data	1.2J	0.10R	322*	No Data	No Data	83.4	60.2
03SS95-01 0-3"	07/18/1995	Soil	No Data	1.0	0.10R	6.7	No Data	No Data	316	59.6
03SS95-01 3-24"	07/18/1995	Soil	No Data	0.73J	0.10R	143	No Data	No Data	263	61.2
03SS95-01 3-24" (Dup)	07/18/1995	Soil	No Data	0.74J	0.10R	53.4	No Data	No Data	259	63.8

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Soil and Sediment Metals, Nitrate, and Sulfate Data[a]

Sample Location	Sample Date	Sample Type	Ag (mg/kg)	Al (mg/kg)	As (mg/kg)	B (mg/kg)	Ba (mg/kg)	Be (mg/kg)	Cd (mg/kg)	Co (mg/kg)	Cr (mg/kg)
Down-Gradient - Upper Montezuma Creek											
03SS95-02 0-3"	07/18/1995	Soil	No Data	13000	5.5J	0.6U	No Data	No Data	No Data	6.4	No Data
03SS95-02 3-24"	07/18/1995	Soil	No Data	15900	1.7J	0.6U	No Data	No Data	No Data	7.0	No Data
04SD95-01 0-3"	08/28/1995	Sediment	No Data	18400	7.3	9.8J	No Data	No Data	No Data	6.1	No Data
04SS95-01 0-3"	07/19/1995	Soil	No Data	11600	6.3J	0.6U	No Data	No Data	No Data	6.0	No Data
04SS95-01 3-24"	07/19/1995	Soil	No Data	10600	6.5J	0.6U	No Data	No Data	No Data	5.3	No Data
04SS95-02 0-3"	07/19/1995	Soil	No Data	13000	5.7J	0.6U	No Data	No Data	No Data	6.4	No Data
04SS95-02 3-24"	07/19/1995	Soil	No Data	13200	3.8J	0.6U	No Data	No Data	No Data	6.4	No Data
05SS95-01 0-3"	07/19/1995	Soil	No Data	11600	13.5J	2.8J	No Data	No Data	No Data	9.3	No Data
05SS95-01 3-24"	07/19/1995	Soil	No Data	12500	18.6J	7.7J	No Data	No Data	No Data	10.0	No Data
05SS95-01 3-24" (Dup)	07/19/1995	Soil	No Data	11900	13.1J	5.2J	No Data	No Data	No Data	12.0	No Data
05SS95-02 0-3"	07/19/1995	Soil	No Data	10500	3.2J	0.6U	No Data	No Data	No Data	5.5	No Data
05SS95-02 3-24"	07/19/1995	Soil	No Data	8530	2.6J	0.6U	No Data	No Data	No Data	4.5J	No Data
21SD96-01 0-3"	05/22/1996	Sediment	No Data	15900	6.4J	No Data	No Data	No Data	No Data	5.8	No Data
21SD96-01 0-3" (Dup)	05/22/1996	Sediment	No Data	16100	6.3J	No Data	No Data	No Data	No Data	5.8	No Data
21SD96-02 0-3"	05/22/1996	Sediment	No Data	12300	6.2J	No Data	No Data	No Data	No Data	6.0	No Data
21SS96-N 0-3"	05/22/1996	Soil	No Data	12700J	4.7J	No Data	No Data	No Data	No Data	6.2	No Data
21SS96-N 3-24"	05/22/1996	Soil	No Data	10600J	5.9J	No Data	No Data	No Data	No Data	5.4	No Data
21SS96-S 0-3"	05/22/1996	Soil	No Data	9770J	5.6J	No Data	No Data	No Data	No Data	5.7	No Data
21SS96-S 3-24"	05/22/1996	Soil	No Data	9580J	5.6J	No Data	No Data	No Data	No Data	6.0	No Data
22SD96-01 0-3"	05/22/1996	Sediment	No Data	21200	9.0J	No Data	No Data	No Data	No Data	6.3	No Data
22SD96-02 0-3"	05/22/1996	Sediment	No Data	12800	6.2J	No Data	No Data	No Data	No Data	5.6	No Data
22SD96-03 0-3"	05/22/1996	Sediment	No Data	12300	5.7J	No Data	No Data	No Data	No Data	6.2	No Data
22SD96-04 0-3"	05/22/1996	Sediment	No Data	19900	6.5J	No Data	No Data	No Data	No Data	5.9	No Data
22SD96-05 0-3"	05/22/1996	Sediment	No Data	22400	6.5J	No Data	No Data	No Data	No Data	6.8	No Data
22SD96-06 0-3"	05/24/1996	Sediment	No Data	22000J	8.9	No Data	No Data	No Data	No Data	7.4	No Data
22SD96-07 9-15"	06/06/1996	Sediment	No Data	19900	11.2	No Data	No Data	No Data	No Data	7.6	No Data
22SD96-07 9-15" (Dup)	06/06/1996	Sediment	No Data	14300	10.8	No Data	No Data	No Data	No Data	7.2	No Data
22SS96-N 0-3"	05/22/1996	Soil	No Data	18900J	7.6J	No Data	No Data	No Data	No Data	6.3	No Data
22SS96-N 3-24"	05/22/1996	Soil	No Data	12000J	10.5J	No Data	No Data	No Data	No Data	8.3	No Data
22SS96-N2 0-3"	05/22/1996	Soil	No Data	15000J	8.9J	No Data	No Data	No Data	No Data	6.9	No Data
22SS96-N2 3-24"	05/22/1996	Soil	No Data	14200J	13.9J	No Data	No Data	No Data	No Data	9.4	No Data
23SD96-01 0-3"	05/24/1996	Sediment	No Data	9600J	12.2	No Data	No Data	No Data	No Data	6.9	No Data
23SD96-02 0-3"	05/24/1996	Sediment	No Data	22600J	11.9	No Data	No Data	No Data	No Data	7.0	No Data
23SD96-03 0-3"	05/24/1996	Sediment	No Data	20400J	10.4	No Data	No Data	No Data	No Data	8.1	No Data
23SD96-04 0-3"	05/24/1996	Sediment	No Data	17100J	5.5	No Data	No Data	No Data	No Data	5.7	No Data
23SD96-05 0-3"	05/24/1996	Sediment	No Data	17700J	6.5	No Data	No Data	No Data	No Data	6.4	No Data
23SD96-06 0-3"	05/24/1996	Sediment	No Data	13700J	9.9	No Data	No Data	No Data	No Data	7.1	No Data
23SD96-07 18-24"	06/06/1996	Sediment	No Data	15700	9.7	No Data	No Data	No Data	No Data	6.5	No Data

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Soil and Sediment Metals, Nitrate, and Sulfate Data[a]

Sample Location	Sample Date	Sample Type	Cu (mg/kg)	Fe (mg/kg)	Hg (mg/kg)	Mn (mg/kg)	Mo (mg/kg)	Na (mg/kg)	Ni (mg/kg)	NO_3+NO_2-N[b] (mg/kg)	Pb (mg/kg)
Down-Gradient - Upper Montezuma Creek											
03SS95-02 0-3"	07/18/1995	Soil	18.5	No Data	No Data	509	2.6UJ	93.7J	No Data	2.7*	No Data
03SS95-02 3-24"	07/18/1995	Soil	15.1	No Data	No Data	529	2.6UJ	198J	No Data	3.4*	No Data
04SD95-01 0-3"	08/28/1995	Sediment	24.1	No Data	No Data	627	2.6U	461J	No Data	0.63B	No Data
04SS95-01 0-3"	07/19/1995	Soil	40.3	No Data	No Data	366	2.6UJ	176J	No Data	3.4*	No Data
04SS95-01 3-24"	07/19/1995	Soil	25.4	No Data	No Data	318	2.6UJ	184J	No Data	3.6*	No Data
04SS95-02 0-3"	07/19/1995	Soil	20.3	No Data	No Data	447	2.6UJ	99.2J	No Data	4.9*	No Data
04SS95-02 3-24"	07/19/1995	Soil	15.2	No Data	No Data	411	2.6UJ	109J	No Data	4.1*	No Data
05SS95-01 0-3"	07/19/1995	Soil	86.6	No Data	No Data	2300	2.6UJ	407J	No Data	1.9*	No Data
05SS95-01 3-24"	07/19/1995	Soil	189	No Data	No Data	365	2.6UJ	356J	No Data	1.5*	No Data
05SS95-01 3-24" (Dup)	07/19/1995	Soil	217	No Data	No Data	440	2.6UJ	371J	No Data	1.6*	No Data
05SS95-02 0-3"	07/19/1995	Soil	12.7	No Data	No Data	383	2.6UJ	116J	No Data	3.1*	No Data
05SS95-02 3-24"	07/19/1995	Soil	9.5	No Data	No Data	255	2.6UJ	93.2J	No Data	2.2*	No Data
21SD96-01 0-3"	05/22/1996	Sediment	34.5	No Data	No Data	621	1.0J	332J	No Data	0.72*	15.5
21SD96-01 0-3" (Dup)	05/22/1996	Sediment	28.0	No Data	No Data	554	1.1J	488J	No Data	0.57*	10.8
21SD96-02 0-3"	05/22/1996	Sediment	38.0	No Data	No Data	928	1.8J	429J	No Data	No Data	12.2
21SS96-N 0-3"	05/22/1996	Soil	11.5J	No Data	No Data	454J	0.42J	203J	No Data	6.2*	10.8J
21SS96-N 3-24"	05/22/1996	Soil	17.6J	No Data	No Data	407J	0.58J	281J	No Data	1.9*	11.1J
21SS96-S 0-3"	05/22/1996	Soil	21.7J	No Data	No Data	660J	0.87J	214J	No Data	4.3*	12.0J
21SS96-S 3-24"	05/22/1996	Soil	65.1J	No Data	No Data	340J	0.99J	186J	No Data	3.3*	12.2J
22SD96-01 0-3"	05/22/1996	Sediment	56.5	No Data	No Data	518	1.1J	320J	No Data	0.59*	17.5
22SD96-02 0-3"	05/22/1996	Sediment	29.2	No Data	No Data	442	3.0J	302J	No Data	0.25*	12.2
22SD96-03 0-3"	05/22/1996	Sediment	31.6	No Data	No Data	450	3.2J	275J	No Data	0.44N*	12.4
22SD96-04 0-3"	05/22/1996	Sediment	31.8	No Data	No Data	507	1.2J	309J	No Data	0.43N*	13.0
22SD96-05 0-3"	05/22/1996	Sediment	27.7	No Data	No Data	512	1.1J	346J	No Data	0.39N*	20.4
22SD96-06 0-3"	05/24/1996	Sediment	51.4	No Data	No Data	501	2.7J	374J	No Data	No Data	15.0
22SD96-07 9-15"	06/06/1996	Sediment	89.7	No Data	No Data	585	2.9J	330J	No Data	0.15B	15.9
22SD96-07 9-15" (Dup)	06/06/1996	Sediment	84.4	No Data	No Data	593	3.1J	283J	No Data	0.05B	15.9
22SS96-N 0-3"	05/22/1996	Soil	64.5J	No Data	No Data	399J	1.0J	489J	No Data	3.3*	15.9J
22SS96-N 3-24"	05/22/1996	Soil	112J	No Data	No Data	285J	1.9J	301J	No Data	2.2*	16.6J
22SS96-N2 0-3"	05/22/1996	Soil	107J	No Data	No Data	346J	1.3J	331J	No Data	2.9N*	16.6J
22SS96-N2 3-24"	05/22/1996	Soil	135J	No Data	No Data	342J	2.2J	338J	No Data	1.6N*	18.6J
23SD96-01 0-3"	05/24/1996	Sediment	76.5	No Data	No Data	599	1.8J	249J	No Data	0.60*	14.3
23SD96-02 0-3"	05/24/1996	Sediment	40.6	No Data	No Data	826	2.5J	338J	No Data	0.66*	13.9
23SD96-03 0-3"	05/24/1996	Sediment	34.8	No Data	No Data	1200	1.2J	322J	No Data	2.1*	22.7
23SD96-04 0-3"	05/24/1996	Sediment	21.5	No Data	No Data	292	0.62J	239J	No Data	4.0*	12.1
23SD96-05 0-3"	05/24/1996	Sediment	23.7	No Data	No Data	810	0.69J	269J	No Data	1.4*	12.2
23SD96-06 0-3"	05/24/1996	Sediment	47.5	No Data	No Data	665	1.4J	315J	No Data	No Data	16.2
23SD96-07 18-24"	06/06/1996	Sediment	56.9	No Data	No Data	368	2.6J	255J	No Data	0.04B	13.9

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[b]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. * -- Duplicate analysis is not within control limits.

Soil and Sediment Metals, Nitrate, and Sulfate Data[a]

Sample Location	Sample Date	Sample Type	Sb (mg/kg)	Se (mg/kg)	Sn (mg/kg)	SO_4[b] (mg/kg)	Tl (mg/kg)	U (mg/kg)	V (mg/kg)	Zn (mg/kg)
Down-Gradient - Upper Montezuma Creek										
03SS95-02 0-3"	07/18/1995	Soil	No Data	0.40J	0.10R	5.8	No Data	No Data	43.4	47.5
03SS95-02 3-24"	07/18/1995	Soil	No Data	0.27J	0.10R	15.8	No Data	No Data	34.3	53.0
04SD95-01 0-3"	08/28/1995	Sediment	No Data	2.0J	0.19R	318	No Data	No Data	104	53.4
04SS95-01 0-3"	07/19/1995	Soil	No Data	1.1J	0.10R	8.8	No Data	No Data	99.4	46.0
04SS95-01 3-24"	07/19/1995	Soil	No Data	0.37J	0.10R	16.5	No Data	No Data	120	36.9
04SS95-02 0-3"	07/19/1995	Soil	No Data	0.54	0.10R	11.2	No Data	No Data	44.0	57.5
04SS95-02 3-24"	07/19/1995	Soil	No Data	0.77	0.10R	10.5	No Data	No Data	27.1	52.9
05SS95-01 0-3"	07/19/1995	Soil	No Data	2.0	0.10R	701	No Data	No Data	104	62.5
05SS95-01 3-24"	07/19/1995	Soil	No Data	2.0	0.10R	558	No Data	No Data	299	58.7
05SS95-01 3-24" (Dup)	07/19/1995	Soil	No Data	1.2	0.10R	436	No Data	No Data	341	66.8
05SS95-02 0-3"	07/19/1995	Soil	No Data	0.84J	0.10R	52.5	No Data	No Data	24.2	49.0
05SS95-02 3-24"	07/19/1995	Soil	No Data	0.20U	0.10R	28.6	No Data	No Data	12.6	38.0
21SD96-01 0-3"	05/22/1996	Sediment	No Data	4.0	No Data	2010*	No Data	16.6	67.3	55.8
21SD96-01 0-3" (Dup)	05/22/1996	Sediment	No Data	4.2	No Data	1900*	No Data	16.4	66.1	52.4
21SD96-02 0-3"	05/22/1996	Sediment	No Data	4.4	No Data	No Data	No Data	23.5	82.2	52.3
21SS96-N 0-3"	05/22/1996	Soil	No Data	2.3J	No Data	499*	No Data	3.7	22.1	42.8J
21SS96-N 3-24"	05/22/1996	Soil	No Data	2.1J	No Data	504*	No Data	5.4	24.5	41.8J
21SS96-S 0-3"	05/22/1996	Soil	No Data	3.2J	No Data	299*	No Data	7.0	30.3	42.5J
21SS96-S 3-24"	05/22/1996	Soil	No Data	2.5J	No Data	230*	No Data	9.6	35.2	45.4J
22SD96-01 0-3"	05/22/1996	Sediment	No Data	4.5	No Data	2430*	No Data	19.1	82.6	69.4
22SD96-02 0-3"	05/22/1996	Sediment	No Data	4.7	No Data	1940*	No Data	54.3	71.6	57.6
22SD96-03 0-3"	05/22/1996	Sediment	No Data	4.2	No Data	2130N	No Data	40.1	79.5	59.3
22SD96-04 0-3"	05/22/1996	Sediment	No Data	3.9	No Data	1940N	No Data	20.3	68.0	63.5
22SD96-05 0-3"	05/22/1996	Sediment	No Data	4.9	No Data	1830N	No Data	17.8	64.9	74.1
22SD96-06 0-3"	05/24/1996	Sediment	No Data	4.4	No Data	No Data	No Data	35.2	102	71.2
22SD96-07 9-15"	06/06/1996	Sediment	No Data	4.4	No Data	483	No Data	52.8	125	68.3
22SD96-07 9-15" (Dup)	06/06/1996	Sediment	No Data	3.9	No Data	435	No Data	40.8	119	64.6
22SS96-N 0-3"	05/22/1996	Soil	No Data	4.1J	No Data	534*	No Data	16.2	78.0	52.8J
22SS96-N 3-24"	05/22/1996	Soil	No Data	2.8J	No Data	262*	No Data	26.7	157	55.3J
22SS96-N2 0-3"	05/22/1996	Soil	No Data	3.8J	No Data	620N	No Data	27.0	144	58.2J
22SS96-N2 3-24"	05/22/1996	Soil	No Data	3.5J	No Data	309N	No Data	37.6	242	56.0J
23SD96-01 0-3"	05/24/1996	Sediment	No Data	5.3	No Data	377*	No Data	27.9	144	52.5
23SD96-02 0-3"	05/24/1996	Sediment	No Data	6.8	No Data	1080*	No Data	28.4	108	60.9
23SD96-03 0-3"	05/24/1996	Sediment	No Data	5.3	No Data	849*	No Data	18.0	103	63.8
23SD96-04 0-3"	05/24/1996	Sediment	No Data	3.8	No Data	296*	No Data	9.6	50.8	54.4
23SD96-05 0-3"	05/24/1996	Sediment	No Data	3.7	No Data	417*	No Data	13.3	50.9	57.1
23SD96-06 0-3"	05/24/1996	Sediment	No Data	5.1	No Data	No Data	No Data	25.6	117	61.8
23SD96-07 18-24"	06/06/1996	Sediment	No Data	3.2	No Data	773	No Data	27.2	80.2	59.6

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected: value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. * -- Duplicate analysis is not within control limits.

Soil and Sediment Metals, Nitrate, and Sulfate Data[a]

Sample Location	Sample Date	Sample Type	Ag (mg/kg)	Al (mg/kg)	As (mg/kg)	B (mg/kg)	Ba (mg/kg)	Be (mg/kg)	Cd (mg/kg)	Co (mg/kg)	Cr (mg/kg)
Down-Gradient - Upper Montezuma Creek											
23SD96-07 18-24" (Dup)	06/06/1996	Sediment	No Data	17400	9.7	No Data	No Data	No Data	No Data	6.4	No Data
23SS96-N 0-3"	05/24/1996	Soil	No Data	11000J	6.5	No Data	No Data	No Data	No Data	5.9	No Data
23SS96-N 3-24"	05/24/1996	Soil	No Data	15100J	7.2	No Data	No Data	No Data	No Data	6.8	No Data
23SS96-S 0-3"	05/24/1996	Soil	No Data	10000J	4.8	No Data	No Data	No Data	No Data	5.5	No Data
23SS96-S 3-24"	05/24/1996	Soil	No Data	10200J	4.4	No Data	No Data	No Data	No Data	5.1	No Data
BPSD95-01 0-7"	08/22/1995	Sediment	No Data	19200	6.3J	7.8J	No Data	No Data	No Data	7.1	No Data
BPSD95-02 0-6"	08/22/1995	Sediment	No Data	12000	7.4J	0.6U	No Data	No Data	No Data	5.8	No Data
BPSD95-02 0-18"	08/22/1995	Sediment	No Data	14100	7.6J	0.6U	No Data	No Data	No Data	6.1	No Data
BPSD95-03 0-6"	08/23/1995	Sediment	No Data	9330	5.4J	0.6U	No Data	No Data	No Data	5.5	No Data
BPSD95-03 0-12"	08/23/1995	Sediment	No Data	14000	5.0J	0.6U	No Data	No Data	No Data	6.1	No Data
BPSD95-04 0-6"	08/23/1995	Sediment	No Data	16500	8.6J	0.6U	No Data	No Data	No Data	6.8	No Data
BPSD95-05 0-6"	08/23/1995	Sediment	No Data	10800	4.6J	0.6U	No Data	No Data	No Data	5.3	No Data
HH1-96 0-3"	05/22/1996	Soil	No Data	12400J	9.1J	No Data	No Data	No Data	No Data	7.2	No Data
HH2-96 0-3"	05/22/1996	Soil	No Data	19600J	9.1J	No Data	No Data	No Data	No Data	8.0	No Data
HH3-96 0-3"	05/22/1996	Soil	No Data	9200J	8.2J	No Data	No Data	No Data	No Data	7.0	No Data
HH4-96 0-3"	05/22/1996	Soil	No Data	8500J	8.6J	No Data	No Data	No Data	No Data	6.7	No Data
HH5-96 0-3"	05/22/1996	Soil	No Data	16900J	6.1J	No Data	No Data	No Data	No Data	6.0	No Data
HH6-96 0-3"	05/23/1996	Soil	No Data	13100J	7.8	No Data	No Data	No Data	No Data	6.6	No Data
HH7-96 0-3"	05/23/1996	Soil	No Data	17900J	7.5	No Data	No Data	No Data	No Data	6.7	No Data
HH8-96 0-3"	05/23/1996	Soil	No Data	8530J	9.6	No Data	No Data	No Data	No Data	6.9	No Data
HH9-96 0-3"	05/23/1996	Soil	No Data	16400J	6.3	No Data	No Data	No Data	No Data	6.0	No Data
HH10-96 0-3"	05/23/1996	Soil	No Data	14800J	6.8	No Data	No Data	No Data	No Data	6.1	No Data
HH11-96 0-3"	05/23/1996	Soil	No Data	15600J	5.1	No Data	No Data	No Data	No Data	4.9J	No Data
HH12-96 0-3"	05/23/1996	Soil	No Data	17800J	6.5	No Data	No Data	No Data	No Data	6.2	No Data
HH13-96 0-3"	05/23/1996	Soil	No Data	12600J	9.4	No Data	No Data	No Data	No Data	7.4	No Data
HH15-96 0-3"	05/29/1996	Soil	No Data	15200	10.1	No Data	No Data	No Data	No Data	7.0	No Data
HH16-96 0-3"	05/29/1996	Soil	No Data	20300	8.2	No Data	No Data	No Data	No Data	6.8	No Data
IPSD95-01 0-6"	08/22/1995	Sediment	No Data	22400	5.8J	9.1J	No Data	No Data	No Data	7.0	No Data
IPSD95-01 0-24"	08/22/1995	Sediment	No Data	17900	4.2J	8.0J	No Data	No Data	No Data	6.4	No Data
IPSD95-02 0-6"	08/22/1995	Sediment	No Data	26200	6.7J	0.6U	No Data	No Data	No Data	9.0	No Data
IPSD95-02 0-20"	08/22/1995	Sediment	No Data	24400	7.2J	0.6U	No Data	No Data	No Data	9.1	No Data
IPSD95-03 0-6"	08/22/1995	Sediment	No Data	23300	6.0J	0.6U	No Data	No Data	No Data	8.7	No Data
IPSD95-03 0-24"	08/22/1995	Sediment	No Data	20000	6.6J	7.3J	No Data	No Data	No Data	7.6	No Data
IPSD95-04 0-6"	08/22/1995	Sediment	No Data	21800	6.0J	0.6U	No Data	No Data	No Data	7.3	No Data
IPSD95-04 0-18"	08/22/1995	Sediment	No Data	26000	6.9J	12.2	No Data	No Data	No Data	7.3	No Data
IPSD95-05 0-6"	08/22/1995	Sediment	No Data	22100	7.7J	0.6U	No Data	No Data	No Data	7.6	No Data
IPSD95-05 0-24"	08/22/1995	Sediment	No Data	20900	5.9J	8.4J	No Data	No Data	No Data	6.8	No Data
IPSD95-05 0-24" (Dup)	08/22/1995	Sediment	No Data	19900	5.7J	0.6U	No Data	No Data	No Data	6.4	No Data

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.

Soil and Sediment Metals, Nitrate, and Sulfate Data[a]

Sample Location	Sample Date	Sample Type	Cu (mg/kg)	Fe (mg/kg)	Hg (mg/kg)	Mn (mg/kg)	Mo (mg/kg)	Na (mg/kg)	Ni (mg/kg)	NO_3+NO_2-N[b] (mg/kg)	Pb (mg/kg)
Down-Gradient - Upper Montezuma Creek											
23SD96-07 18-24" (Dup)	06/06/1996	Sediment	54.0	No Data	No Data	378	2.2J	271J	No Data	0.23B	14.4
23SS96-N 0-3"	05/24/1996	Soil	55.0	No Data	No Data	402	1.2J	364J	No Data	3.8*	13.3
23SS96-N 3-24"	05/24/1996	Soil	41.1	No Data	No Data	287	1.4J	269J	No Data	0.67*	13.2
23SS96-S 0-3"	05/24/1996	Soil	26.5	No Data	No Data	375	0.73J	143J	No Data	4.0N*	11.6
23SS96-S 3-24"	05/24/1996	Soil	15.7	No Data	No Data	308	0.78J	146J	No Data	2.2N*	9.6
BPSD95-01 0-7"	08/22/1995	Sediment	46.7	No Data	No Data	457	2.6UJ	328J	No Data	0.67B	No Data
BPSD95-02 0-6"	08/22/1995	Sediment	52.0	No Data	No Data	373	2.6UJ	297J	No Data	0.55B	No Data
BPSD95-02 0-18"	08/22/1995	Sediment	41.2	No Data	No Data	420	2.6UJ	367J	No Data	0.31B	No Data
BPSD95-03 0-6"	08/23/1995	Sediment	42.0	No Data	No Data	343	2.6UJ	252J	No Data	0.42B	No Data
BPSD95-03 0-12"	08/23/1995	Sediment	37.9	No Data	No Data	446	2.6UJ	262J	No Data	0.81B	No Data
BPSD95-04 0-6"	08/23/1995	Sediment	32.9	No Data	No Data	481	2.6UJ	230J	No Data	0.75B	No Data
BPSD95-05 0-6"	08/23/1995	Sediment	39.7	No Data	No Data	172	2.6UJ	213J	No Data	0.73B	No Data
HH1-96 0-3"	05/22/1996	Soil	93.6J	No Data	No Data	404J	1.4J	557	No Data	1.9*	16.4J
HH2-96 0-3"	05/22/1996	Soil	86.0J	No Data	No Data	813J	1.2J	453J	No Data	2.2*	16.0J
HH3-96 0-3"	05/22/1996	Soil	54.9J	No Data	No Data	490J	1.5J	216J	No Data	2.5*	15.2J
HH4-96 0-3"	05/22/1996	Soil	69.6J	No Data	No Data	494J	1.2J	354J	No Data	2.4*	14.8J
HH5-96 0-3"	05/22/1996	Soil	37.2J	No Data	No Data	304J	0.98J	216J	No Data	11.2*	12.2J
HH6-96 0-3"	05/23/1996	Soil	103	No Data	No Data	560	1.1J	383J	No Data	1.2*	14.3J
HH7-96 0-3"	05/23/1996	Soil	26.3	No Data	No Data	737	0.83J	306J	No Data	1.8*	12.9J
HH8-96 0-3"	05/23/1996	Soil	110	No Data	No Data	420	1.3J	388J	No Data	0.44*	15.6
HH9-96 0-3"	05/23/1996	Soil	44.1	No Data	No Data	270	0.83J	285J	No Data	2.3*	13.2
HH10-96 0-3"	05/23/1996	Soil	29.9	No Data	No Data	523	0.70J	288J	No Data	9.8*	12.1
HH11-96 0-3"	05/23/1996	Soil	25.2	No Data	No Data	296	0.94J	247J	No Data	3.1*	10.8
HH12-96 0-3"	05/23/1996	Soil	28.8	No Data	No Data	388	1.4J	432J	No Data	0.49*	12.3
HH13-96 0-3"	05/23/1996	Soil	117	No Data	No Data	401	2.2J	261J	No Data	1.1*	16.8
HH15-96 0-3"	05/29/1996	Soil	36.9	No Data	No Data	1570	1.9J	727	No Data	0.36	11.7
HH16-96 0-3"	05/29/1996	Soil	34.7	No Data	No Data	696	1.2J	493J	No Data	0.94	12.8
IPSD95-01 0-6"	08/22/1995	Sediment	20.5	No Data	No Data	395	2.6UJ	290J	No Data	0.84B	No Data
IPSD95-01 0-24"	08/22/1995	Sediment	19.1	No Data	No Data	389	2.6UJ	240J	No Data	0.99B	No Data
IPSD95-02 0-6"	08/22/1995	Sediment	28.5	No Data	No Data	533	2.6UJ	301J	No Data	0.55B	No Data
IPSD95-02 0-20"	08/22/1995	Sediment	27.8	No Data	No Data	588	2.6UJ	272J	No Data	0.26B	No Data
IPSD95-03 0-6"	08/22/1995	Sediment	25.3	No Data	No Data	498	2.6UJ	473J	No Data	0.47B	No Data
IPSD95-03 0-24"	08/22/1995	Sediment	22.8	No Data	No Data	486	2.6UJ	366J	No Data	0.68B	No Data
IPSD95-04 0-6"	08/22/1995	Sediment	22.6	No Data	No Data	408	2.6UJ	236J	No Data	0.46B	No Data
IPSD95-04 0-18"	08/22/1995	Sediment	20.7	No Data	No Data	434	2.6UJ	294J	No Data	0.36B	No Data
IPSD95-05 0-6"	08/22/1995	Sediment	22.0	No Data	No Data	382	2.6UJ	219J	No Data	1.3	No Data
IPSD95-05 0-24"	08/22/1995	Sediment	19.6	No Data	No Data	392	2.6UJ	220J	No Data	0.58B	No Data
IPSD95-05 0-24" (Dup)	08/22/1995	Sediment	18.7	No Data	No Data	392	2.6UJ	205J	No Data	0.80B	No Data

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[b]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit (DL). N -- Spiked sample recovery is not within control limits. * -- Duplicate analysis is not within control limits.

Soil and Sediment Metals, Nitrate, and Sulfate Data[a]

Sample Location	Sample Date	Sample Type	Sb (mg/kg)	Se (mg/kg)	Sn (mg/kg)	SO_4[b] (mg/kg)	Tl (mg/kg)	U (mg/kg)	V (mg/kg)	Zn (mg/kg)
Down-Gradient - Upper Montezuma Creek										
23SD96-07 18-24" (Dup)	06/06/1996	Sediment	No Data	3.1	No Data	761	No Data	26.4	79.1	58.6
23SS96-N 0-3"	05/24/1996	Soil	No Data	2.8	No Data	396*	No Data	17.9	94.5J	48.8
23SS96-N 3-24"	05/24/1996	Soil	No Data	2.9	No Data	222*	No Data	14.9	91.2J	48.0
23SS96-S 0-3"	05/24/1996	Soil	No Data	2.8	No Data	331	No Data	11.1	48.3J	47.8
23SS96-S 3-24"	05/24/1996	Soil	No Data	1.9	No Data	173	No Data	11.1	24.3J	45.1
BPSD95-01 0-7"	08/22/1995	Sediment	No Data	2.1J	0.10R	237*	No Data	No Data	84.2	60.4
BPSD95-02 0-6"	08/22/1995	Sediment	No Data	0.58J	0.10R	75.8*	No Data	No Data	74.7	50.7
BPSD95-02 0-18"	08/22/1995	Sediment	No Data	0.96J	0.10J	153*	No Data	No Data	67.5	60.3
BPSD95-03 0-6"	08/23/1995	Sediment	No Data	0.28J	0.10R	57.0*	No Data	No Data	51.2	51.3
BPSD95-03 0-12"	08/23/1995	Sediment	No Data	1.5J	0.14J	132*	No Data	No Data	83.0	60.5
BPSD95-04 0-6"	08/23/1995	Sediment	No Data	0.60J	0.10R	40.4*	No Data	No Data	73.0	61.0
BPSD95-05 0-6"	08/23/1995	Sediment	No Data	1.3J	0.10R	104*	No Data	No Data	70.9	55.4
HH1-96 0-3"	05/22/1996	Soil	No Data	3.3J	No Data	627*	No Data	35.2	125	58.5J
HH2-96 0-3"	05/22/1996	Soil	No Data	4.0J	No Data	549*	No Data	20.8	110	72.5J
HH3-96 0-3"	05/22/1996	Soil	No Data	3.6J	No Data	408*	No Data	22.1	118	58.0J
HH4-96 0-3"	05/22/1996	Soil	No Data	2.9J	No Data	204*	No Data	20.9	123	53.0J
HH5-96 0-3"	05/22/1996	Soil	No Data	2.8J	No Data	39.4*	No Data	11.8	61.1	54.5J
HH6-96 0-3"	05/23/1996	Soil	No Data	4.1	No Data	879*	No Data	16.9	94.0J	56.1
HH7-96 0-3"	05/23/1996	Soil	No Data	3.8	No Data	797*	No Data	9.9	76.4J	62.4
HH8-96 0-3"	05/23/1996	Soil	No Data	3.2	No Data	4660*	No Data	21.8	99.5J	50.8
HH9-96 0-3"	05/23/1996	Soil	No Data	3.0	No Data	284*	No Data	11.9	64.3J	55.0
HH10-96 0-3"	05/23/1996	Soil	No Data	3.8	No Data	838*	No Data	11.4	56.9J	57.9
HH11-96 0-3"	05/23/1996	Soil	No Data	3.0	No Data	978*	No Data	15.6	62.3J	47.4
HH12-96 0-3"	05/23/1996	Soil	No Data	3.9	No Data	1170*	No Data	18.8	71.1J	58.7
HH13-96 0-3"	05/23/1996	Soil	No Data	2.8	No Data	395*	No Data	33.6	149J	65.4
HH15-96 0-3"	05/29/1996	Soil	No Data	3.2	No Data	5230	No Data	19.6	68.3J	54.2
HH16-96 0-3"	05/29/1996	Soil	No Data	3.4	No Data	1930	No Data	24.5	88.8J	64.1
IPSD95-01 0-6"	08/22/1995	Sediment	No Data	1.5J	0.10R	335*	No Data	No Data	64.5	70.5
IPSD95-01 0-24"	08/22/1995	Sediment	No Data	3.5J	0.10R	196*	No Data	No Data	80.6	61.0
IPSD95-02 0-6"	08/22/1995	Sediment	No Data	0.30J	0.10R	132*	No Data	No Data	64.8	87.8
IPSD95-02 0-20"	08/22/1995	Sediment	No Data	1.0UJ	0.10R	45.6*	No Data	No Data	55.3	77.1
IPSD95-03 0-6"	08/22/1995	Sediment	No Data	0.20UJ	0.10R	329*	No Data	No Data	49.1	70.6
IPSD95-03 0-24"	08/22/1995	Sediment	No Data	0.62J	0.10J	228*	No Data	No Data	63.1	70.7
IPSD95-04 0-6"	08/22/1995	Sediment	No Data	1.0J	0.10R	128*	No Data	No Data	57.4	74.4
IPSD95-04 0-18"	08/22/1995	Sediment	No Data	1.3J	0.10R	110*	No Data	No Data	84.2	69.3
IPSD95-05 0-6"	08/22/1995	Sediment	No Data	1.0UJ	0.10R	77.0*	No Data	No Data	60.0	78.3
IPSD95-05 0-24"	08/22/1995	Sediment	No Data	1.0UJ	0.10R	93.6*	No Data	No Data	68.3	68.2
IPSD95-05 0-24" (Dup)	08/22/1995	Sediment	No Data	1.0UJ	0.10R	28.1*	No Data	No Data	63.9	65.0

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected: value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. * -- Duplicate analysis is not within control limits.

Soil and Sediment Metals, Nitrate, and Sulfate Data[a]

Sample Location	Sample Date	Sample Type	Ag (mg/kg)	Al (mg/kg)	As (mg/kg)	B (mg/kg)	Ba (mg/kg)	Be (mg/kg)	Cd (mg/kg)	Co (mg/kg)	Cr (mg/kg)
Down-Gradient - Upper Montezuma Creek											
R1-96 0-3"	05/23/1996	Soil	No Data	13000J	6.4	No Data	No Data	No Data	No Data	6.3	No Data
R1-96 15-21"	05/23/1996	Soil	No Data	13800J	14.5	No Data	No Data	No Data	No Data	10.9	No Data
R2-96 0-3"	05/23/1996	Soil	No Data	8660J	3.5	No Data	No Data	No Data	No Data	4.6J	No Data
R2-96 3-9"	05/29/1996	Soil	No Data	13700	6.3	No Data	No Data	No Data	No Data	6.3	No Data
R3-96 0-3"	05/22/1996	Soil	No Data	13900J	4.5	No Data	No Data	No Data	No Data	5.0	No Data
R3-96 3-9"	05/22/1996	Soil	No Data	9590J	3.3	No Data	No Data	No Data	No Data	5.2	No Data
R3-96 3-9" (Dup)	05/22/1996	Soil	No Data	14400J	3.8	No Data	No Data	No Data	No Data	5.6	No Data
R4-96 0-3"	05/22/1996	Soil	No Data	8880J	9.9	No Data	No Data	No Data	No Data	7.1	No Data
R5-96 0-3"	05/22/1996	Soil	No Data	10500J	9.3	No Data	No Data	No Data	No Data	7.1	No Data
R5-96 9-15"	05/22/1996	Soil	No Data	12400J	12.6	No Data	No Data	No Data	No Data	8.7	No Data
R6-96 0-3"	05/22/1996	Soil	No Data	17500J	8.8J	No Data	No Data	No Data	No Data	7.5	No Data
R6-96 3-9"	05/29/1996	Soil	No Data	10100	6.2	No Data	No Data	No Data	No Data	5.7	No Data
R7-96 0-3"	05/22/1996	Soil	No Data	11000J	8.7J	No Data	No Data	No Data	No Data	6.9	No Data
R7-96 3-9"	05/22/1996	Soil	No Data	7780J	19.6J	No Data	No Data	No Data	No Data	13.5	No Data
R8-96 0-3"	05/22/1996	Soil	No Data	9220J	8.4J	No Data	No Data	No Data	No Data	6.9	No Data
R8-96 3-9"	05/22/1996	Soil	No Data	9500J	8.5J	No Data	No Data	No Data	No Data	7.0	No Data
R9-96 0-3"	05/22/1996	Soil	No Data	16400J	4.3J	No Data	No Data	No Data	No Data	5.0	No Data
R10-96 0-3"	05/23/1996	Soil	No Data	12600J	11.0	No Data	No Data	No Data	No Data	8.0	No Data
R11-96 0-3"	05/23/1996	Soil	No Data	17500J	18.4	No Data	No Data	No Data	No Data	14.0	No Data
R11-96 3-9"	05/23/1996	Soil	No Data	7940J	13.9	No Data	No Data	No Data	No Data	8.0	No Data
R12-96 0-3"	05/23/1996	Soil	No Data	11500J	5.9	No Data	No Data	No Data	No Data	5.6	No Data
R12-96 0-3" (Dup)	05/23/1996	Soil	No Data	11000J	5.4	No Data	No Data	No Data	No Data	6.2	No Data
R13-96 0-3"	05/29/1996	Soil	No Data	11100	7.5	No Data	No Data	No Data	No Data	6.4	No Data
R15-96 0-3"	05/29/1996	Soil	No Data	11500	6.8	No Data	No Data	No Data	No Data	5.9	No Data
R16-96 0-3"	05/29/1996	Soil	No Data	12300	11.1	No Data	No Data	No Data	No Data	8.6	No Data
R16-96 3-9"	05/29/1996	Soil	No Data	8850	8.9	No Data	No Data	No Data	No Data	6.6	No Data
R17-96 0-3"	05/29/1996	Soil	No Data	12300	7.3	No Data	No Data	No Data	No Data	6.9	No Data
R39-96 0-3"	05/29/1996	Soil	No Data	20200	7.0	No Data	No Data	No Data	No Data	7.8	No Data
R39-96 3-9"	05/29/1996	Soil	No Data	13100	8.6	No Data	No Data	No Data	No Data	6.8	No Data
S94-015 0-6"	11/16/1994	Sediment	0.20U	8870	5.8	No Data	130	0.59J	0.20U	5.3J	6.9
S94-016 0-6"	11/11/1994	Sediment	0.20U	12100	9.0	No Data	184	0.58J	0.21J	6.9J	9.8
S94-016 0-6" (Dup)	11/11/1994	Sediment	0.20U	10000	6.7	No Data	173	0.50J	0.27J	6.9J	8.0
S94-016 6-12"	11/11/1994	Sediment	0.29J	6310	7.2	No Data	200	0.36J	0.35J	6.0J	5.2
S94-016 12-18"	11/11/1994	Sediment	0.26J	8390	6.7	No Data	189	0.45J	0.35J	6.9J	7.0
SS94-001 0-6"	11/16/1994	Soil	0.20U	6380	5.3J	No Data	158	0.44J	0.29J	5.8J	5.2
SS94-001 6-12"	11/16/1994	Soil	0.20U	6770	7.0	No Data	430	0.47J	0.20U	4.0J	5.7
SS94-002 0-6"	11/16/1994	Soil	0.20U	9440	5.8	No Data	139	0.68J	0.20U	5.1J	7.9
SS94-002 0-6" (Dup)	11/16/1994	Soil	0.20U	10200	3.0J	No Data	144	0.67J	0.20U	5.0J	7.8

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.

Soil and Sediment Metals, Nitrate, and Sulfate Data[a]

Sample Location	Sample Date	Sample Type	Cu (mg/kg)	Fe (mg/kg)	Hg (mg/kg)	Mn (mg/kg)	Mo (mg/kg)	Na (mg/kg)	Ni (mg/kg)	NO_3+NO_2-N[b] (mg/kg)	Pb (mg/kg)
Down-Gradient - Upper Montezuma Creek											
R1-96 0-3"	05/23/1996	Soil	46.7	No Data	No Data	337	1.2J	266J	No Data	1.6*	13.1J
R1-96 15-21"	05/23/1996	Soil	361	No Data	No Data	386	2.4J	360J	No Data	0.87*	23.1J
R2-96 0-3"	05/23/1996	Soil	13.8	No Data	No Data	330	0.37J	292J	No Data	1.0*	11.3J
R2-96 3-9"	05/29/1996	Soil	9.0	No Data	No Data	373	0.60J	254J	No Data	0.65	12.2
R3-96 0-3"	05/22/1996	Soil	12.0	No Data	No Data	320	0.58J	457J	No Data	5.0*	10.9J
R3-96 3-9"	05/22/1996	Soil	11.5	No Data	No Data	287	0.38J	180J	No Data	2.9*	9.4J
R3-96 3-9" (Dup)	05/22/1996	Soil	12.1	No Data	No Data	300	0.42J	206J	No Data	3.7*	9.9J
R4-96 0-3"	05/22/1996	Soil	132	No Data	No Data	362	1.3J	285J	No Data	1.6*	16.0J
R5-96 0-3"	05/22/1996	Soil	165	No Data	No Data	377	1.3J	301J	No Data	1.5*	16.5J
R5-96 9-15"	05/22/1996	Soil	58.5	No Data	No Data	406	1.6J	386J	No Data	1.3*	13.7J
R6-96 0-3"	05/22/1996	Soil	71.2J	No Data	No Data	337J	1.3J	264J	No Data	4.6*	13.8J
R6-96 3-9"	05/29/1996	Soil	45.0	No Data	No Data	350	0.89J	206J	No Data	17.4	11.5
R7-96 0-3"	05/22/1996	Soil	123J	No Data	No Data	477J	1.4J	284J	No Data	4.2N*	17.1J
R7-96 3-9"	05/22/1996	Soil	236J	No Data	No Data	370J	2.7J	351J	No Data	1.3N*	25.5J
R8-96 0-3"	05/22/1996	Soil	92.7J	No Data	No Data	456J	1.3J	250J	No Data	1.3N*	15.8J
R8-96 3-9"	05/22/1996	Soil	68.6J	No Data	No Data	334J	1.5J	205J	No Data	0.74*	15.0J
R9-96 0-3"	05/22/1996	Soil	12.3J	No Data	No Data	315J	0.49J	317J	No Data	10.7N*	11.6J
R10-96 0-3"	05/23/1996	Soil	43.6	No Data	No Data	1980	1.1J	348J	No Data	2.4*	15.6
R11-96 0-3"	05/23/1996	Soil	213	No Data	No Data	626	2.8J	578	No Data	0.80*	24.0
R11-96 3-9"	05/23/1996	Soil	76.3	No Data	No Data	368	2.0J	286J	No Data	0.82*	16.5
R12-96 0-3"	05/23/1996	Soil	31.8	No Data	No Data	331	0.88J	114J	No Data	5.6*	11.6
R12-96 0-3" (Dup)	05/23/1996	Soil	34.0	No Data	No Data	357	0.89J	122J	No Data	5.0*	11.2
R13-96 0-3"	05/29/1996	Soil	43.2	No Data	No Data	553	1.4J	1110	No Data	1.8	13.2
R15-96 0-3"	05/29/1996	Soil	19.0	No Data	No Data	374	0.97J	959	No Data	3.9	12.0
R16-96 0-3"	05/29/1996	Soil	229	No Data	No Data	468	1.7J	425J	No Data	0.73	18.1
R16-96 3-9"	05/29/1996	Soil	44.4	No Data	No Data	294	1.3J	234J	No Data	0.80	13.7
R17-96 0-3"	05/29/1996	Soil	45.3	No Data	No Data	384	1.0J	220J	No Data	4.7	13.3
R39-96 0-3"	05/29/1996	Soil	21.8	No Data	No Data	562	1.3J	891	No Data	3.6	14.7
R39-96 3-9"	05/29/1996	Soil	36.4	No Data	No Data	633	0.89J	382J	No Data	0.35	13.2
S94-015 0-6"	11/16/1994	Sediment	15.2	10900	0.03J	335	1.5J	No Data	11.7	No Data	10.4
S94-016 0-6"	11/11/1994	Sediment	55.0	14600	0.02J	390	1.7J	No Data	12.4	No Data	12.5
S94-016 0-6" (Dup)	11/11/1994	Sediment	51.3	13200	0.02J	357	1.6J	No Data	12.4	No Data	11.8
S94-016 6-12"	11/11/1994	Sediment	116	10400	0.02U	279	1.5J	No Data	9.7	No Data	13.4
S94-016 12-18"	11/11/1994	Sediment	106	11600	0.02J	236	1.8J	No Data	12.3	No Data	14.2
SS94-001 0-6"	11/16/1994	Soil	55.8	10100	0.03J	356	1.7J	No Data	10.1	No Data	15.1
SS94-001 6-12"	11/16/1994	Soil	22.0	10400	0.02J	358	1.5J	No Data	11.4	No Data	19.1
SS94-002 0-6"	11/16/1994	Soil	20.2	11000	0.03J	421	0.87J	No Data	12.6	No Data	12.2
SS94-002 0-6" (Dup)	11/16/1994	Soil	19.9	11600	0.03J	431	0.89J	No Data	13.5	No Data	12.1

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit N -- Spiked sample recovery is not within control limits. * -- Duplicate analysis is not within control limits.

Soil and Sediment Metals, Nitrate, and Sulfate Data[a]

Sample Location	Sample Date	Sample Type	Sb (mg/kg)	Se (mg/kg)	Sn (mg/kg)	SO_4[b] (mg/kg)	Tl (mg/kg)	U (mg/kg)	V (mg/kg)	Zn (mg/kg)
Down-Gradient - Upper Montezuma Creek										
R1-96 0-3"	05/23/1996	Soil	No Data	3.6	No Data	310*	No Data	10.5	60.6J	51.8
R1-96 15-21"	05/23/1996	Soil	No Data	3.7	No Data	251*	No Data	33.7	276J	72.0
R2-96 0-3"	05/23/1996	Soil	No Data	1.5U	No Data	138*	No Data	3.8	17.2J	43.2
R2-96 3-9"	05/29/1996	Soil	No Data	1.5	No Data	84.0	No Data	16.8	27.7J	45.5
R3-96 0-3"	05/22/1996	Soil	No Data	2.2U	No Data	1730*	No Data	4.4	24.6J	51.2
R3-96 3-9"	05/22/1996	Soil	No Data	1.5U	No Data	350*	No Data	3.4	14.4J	45.1
R3-96 3-9" (Dup)	05/22/1996	Soil	No Data	2.0	No Data	325*	No Data	3.4	19.7J	46.4
R4-96 0-3"	05/22/1996	Soil	No Data	2.5	No Data	483*	No Data	20.4	123J	51.1
R5-96 0-3"	05/22/1996	Soil	No Data	3.1	No Data	366*	No Data	27.9	140J	50.8
R5-96 9-15"	05/22/1996	Soil	No Data	1.8U	No Data	249*	No Data	20.8	166J	58.1
R6-96 0-3"	05/22/1996	Soil	No Data	2.6J	No Data	127*	No Data	20.3	95.6	57.7J
R6-96 3-9"	05/29/1996	Soil	No Data	1.7	No Data	299	No Data	10.5	48.7J	49.1
R7-96 0-3"	05/22/1996	Soil	No Data	4.0J	No Data	1020N	No Data	23.9	114	59.2J
R7-96 3-9"	05/22/1996	Soil	No Data	3.5J	No Data	598N	No Data	70.5	463	65.3J
R8-96 0-3"	05/22/1996	Soil	No Data	2.8J	No Data	169N	No Data	23.5	107	54.4J
R8-96 3-9"	05/22/1996	Soil	No Data	2.9J	No Data	126*	No Data	23.4	114	55.1J
R9-96 0-3"	05/22/1996	Soil	No Data	3.0J	No Data	1130N	No Data	4.9	27.9	41.3J
R10-96 0-3"	05/23/1996	Soil	No Data	4.0	No Data	200*	No Data	14.5	119J	63.5
R11-96 0-3"	05/23/1996	Soil	No Data	3.7	No Data	547*	No Data	93.3	403J	73.4
R11-96 3-9"	05/23/1996	Soil	No Data	2.3	No Data	347*	No Data	44.2	308J	48.9
R12-96 0-3"	05/23/1996	Soil	No Data	2.8	No Data	273*	No Data	10.8	49.0J	49.1
R12-96 0-3" (Dup)	05/23/1996	Soil	No Data	2.3	No Data	288*	No Data	10.8	50.6J	53.0
R13-96 0-3"	05/29/1996	Soil	No Data	2.3	No Data	8020	No Data	2.9	65.7J	55.0
R15-96 0-3"	05/29/1996	Soil	No Data	2.2	No Data	5960	No Data	7.4	36.6J	59.6
R16-96 0-3"	05/29/1996	Soil	No Data	2.7	No Data	882	No Data	46.3	203	70.5
R16-96 3-9"	05/29/1996	Soil	No Data	1.7	No Data	282	No Data	20.1	135J	46.5
R17-96 0-3"	05/29/1996	Soil	No Data	2.5	No Data	83.5	No Data	24.7	124	53.4
R39-96 0-3"	05/29/1996	Soil	No Data	2.7	No Data	5770	No Data	20.8	57.7J	64.8
R39-96 3-9"	05/29/1996	Soil	No Data	1.6	No Data	5290	No Data	18.8	73.0	57.3
S94-015 0-6"	11/16/1994	Sediment	7.4UJ	0.60U	1.4J	No Data	0.20U	12.2	74.2	50.0
S94-016 0-6"	11/11/1994	Sediment	0.20UJ	1.5J	2.2	No Data	0.20U	17.2	83.7	54.4
S94-016 0-6" (Dup)	11/11/1994	Sediment	0.20UJ	3.0U	2.2	No Data	0.20U	17.1	80.9	52.4
S94-016 6-12"	11/11/1994	Sediment	0.20UJ	3.0UJ	2.2	No Data	0.20U	18.9	102	48.3
S94-016 12-18"	11/11/1994	Sediment	0.20UJ	1.4	2.4	No Data	0.20U	17.1	82.9	51.2
SS94-001 0-6"	11/16/1994	Soil	7.4UJ	0.60U	1.9J	No Data	0.20U	31.2	132	52.1
SS94-001 6-12"	11/16/1994	Soil	7.4UJ	0.60UJ	1.9J	No Data	0.20U	13.6	66.4	44.8
SS94-002 0-6"	11/16/1994	Soil	7.4UJ	0.60U	1.4J	No Data	0.20U	6.9	40.2	56.2
SS94-002 0-6" (Dup)	11/16/1994	Soil	7.4UJ	0.60UJ	1.3J	No Data	0.20U	7.3	42.5	59.2

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[b]

Soil and Sediment Metals, Nitrate, and Sulfate Data[a]

Sample Location	Sample Date	Sample Type	Ag (mg/kg)	Al (mg/kg)	As (mg/kg)	B (mg/kg)	Ba (mg/kg)	Be (mg/kg)	Cd (mg/kg)	Co (mg/kg)	Cr (mg/kg)
Down-Gradient - Upper Montezuma Creek											
SS94-003 0-6"	11/16/1994	Soil	0.20U	7790	4.4	No Data	165	0.50J	0.20U	6.0J	6.0
SS94-003 6-12"	11/16/1994	Soil	0.20U	7370	8.3	No Data	184	0.51J	0.22J	5.1J	5.7
SS94-003 12-18"	11/16/1994	Soil	0.20U	7210	6.7	No Data	155	0.48J	0.20U	4.4J	5.5
SS94-003 18-24"	11/16/1994	Soil	0.20U	8010	5.4	No Data	148	0.51J	0.20U	4.7J	6.1
SS94-003 18-24" (Dup)	11/16/1994	Soil	0.20U	7740	5.7	No Data	149	0.50J	0.20U	5.1J	5.6
SS94-004 0-6"	11/15/1994	Soil	0.20U	6310	8.1	No Data	167	0.51J	0.20U	5.2J	5.1
SS94-004 6-12"	11/15/1994	Soil	0.20U	6680	5.8	No Data	147	0.52J	0.43J	5.3J	5.4
SS94-004 12-18"	11/15/1994	Soil	0.29J	5990	10.4	No Data	206	0.38J	0.25J	6.6J	4.6
SS94-004 18-24"	11/15/1994	Soil	0.22J	6190	19.7J	No Data	245	0.40J	0.49J	9.5J	5.0
SS94-005 0-6"	11/15/1994	Soil	0.20U	7320	10.3	No Data	173	0.53J	0.24J	5.9J	6.0
SS94-005 6-12"	11/15/1994	Soil	0.20U	6800	6.2	No Data	141	0.43J	0.20U	4.4J	4.8
SS94-006 0-6"	11/15/1994	Soil	0.20U	9060	3.0J	No Data	141	0.61J	0.20U	5.7J	7.3
SS94-006 6-12"	11/15/1994	Soil	0.20U	8650	4.6	No Data	140	0.65J	0.20U	5.4J	6.3
SS94-006 12-18"	11/15/1994	Soil	0.20U	8760	4.3	No Data	136	0.65J	0.20U	4.7J	6.6
SS94-006 18-24"	11/15/1994	Soil	0.20U	8300	4.4	No Data	136	0.63J	0.20U	4.0J	6.6
SS94-006 18-24" (Dup)	11/15/1994	Soil	0.20U	9070	4.3	No Data	136	0.66J	0.20U	4.8J	7.4
SS94-007 0-6"	11/15/1994	Soil	0.43J	8510	4.3	No Data	147	0.66J	0.20U	5.4J	7.2
SS94-008 0-6"	11/15/1994	Soil	0.20U	8410	5.6	No Data	139	0.56J	0.20U	4.6J	6.3
SS94-009 0-6"	11/14/1994	Soil	0.21J	7840	11.4J	No Data	231	0.50J	0.78J	9.6J	7.7
SS94-009 6-12"	11/14/1994	Soil	0.28J	7770	16.2J	No Data	252	0.52J	0.78J	11.4	8.5
SS94-009 12-18"	11/14/1994	Soil	0.20U	8700	12.0J	No Data	203	0.50J	0.32J	6.4J	7.7
SS94-009 18-24"	11/14/1994	Soil	0.20U	7060	8.8J	No Data	178	0.39J	0.20U	5.1J	5.9
SS94-010 0-6"	11/14/1994	Soil	0.20U	8730	8.3	No Data	148	0.47J	0.20U	4.6J	6.4
SS94-010 6-12"	11/14/1994	Soil	0.20U	5520	4.9	No Data	125	0.39J	0.20U	4.6J	4.5
SS94-010 12-18"	11/14/1994	Soil	0.20U	6700	5.3	No Data	172	0.46J	0.20U	5.0J	5.4
SS94-010 18-24"	11/14/1994	Soil	0.20U	8460	5.8	No Data	173	0.52J	0.20U	5.4J	7.0
SS94-011 0-6"	11/15/1994	Soil	0.20U	7350	8.2	No Data	204	0.48J	0.20U	5.0J	5.9
SS94-011 0-6" (Dup)	11/15/1994	Soil	0.20U	8370	6.8	No Data	178	0.47J	0.20U	5.6J	6.3
SS94-011 6-12"	11/15/1994	Soil	0.20U	7470	11.5	No Data	219	0.52J	0.28J	6.5J	6.5
SS94-011 12-18"	11/15/1994	Soil	0.20U	7220	8.8	No Data	156	0.51J	0.20U	5.5J	5.5
SS94-011 18-24"	11/15/1994	Soil	0.20U	7990	13.7	No Data	157	0.48J	0.20U	5.1J	6.3
UBPSD95-01 0-6"	08/23/1995	Sediment	No Data	17600	5.4J	8.7J	No Data	No Data	No Data	6.3	No Data
UBPSD95-01 0-24"	08/23/1995	Sediment	No Data	15200	6.1J	4.0J	No Data	No Data	No Data	6.2	No Data
UBPSD95-02 0-6"	08/23/1995	Sediment	No Data	12700	9.6J	7.2J	No Data	No Data	No Data	8.1	No Data
UBPSD95-02 0-12"	08/23/1995	Sediment	No Data	15300	7.2J	6.9J	No Data	No Data	No Data	7.6	No Data
UBPSD95-03 0-6"	08/23/1995	Sediment	No Data	12000	5.4J	5.3J	No Data	No Data	No Data	4.6J	No Data
UBPSD95-03 0-24"	08/23/1995	Sediment	No Data	12000	3.8J	4.7J	No Data	No Data	No Data	5.0J	No Data
UBPSD95-04 0-6"	08/23/1995	Sediment	No Data	14400	5.5J	7.2J	No Data	No Data	No Data	5.6	No Data

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.

Soil and Sediment Metals, Nitrate, and Sulfate Data[a]

Sample Location	Sample Date	Sample Type	Cu (mg/kg)	Fe (mg/kg)	Hg (mg/kg)	Mn (mg/kg)	Mo (mg/kg)	Na (mg/kg)	Ni (mg/kg)	NO_3+NO_2-N[b] (mg/kg)	Pb (mg/kg)
Down-Gradient - Upper Montezuma Creek											
SS94-003 0-6"	11/16/1994	Soil	76.6	10900	0.03J	353	1.6J	No Data	12.2	No Data	14.2
SS94-003 6-12"	11/16/1994	Soil	36.5	11700	0.03J	336	1.9J	No Data	10.7	No Data	15.1
SS94-003 12-18"	11/16/1994	Soil	45.8	11600	0.03J	315	2.1J	No Data	12.0	No Data	14.1
SS94-003 18-24"	11/16/1994	Soil	21.8	11900	0.02J	224	2.4J	No Data	11.3	No Data	12.3
SS94-003 18-24" (Dup)	11/16/1994	Soil	23.3	11600	0.02J	222	2.3J	No Data	10.2	No Data	12.1
SS94-004 0-6"	11/15/1994	Soil	71.2	9710	0.03J	347	1.5J	No Data	9.7	No Data	15.1
SS94-004 6-12"	11/15/1994	Soil	30.9	10800	0.03J	400	2.3J	No Data	10.0	No Data	12.2
SS94-004 12-18"	11/15/1994	Soil	238	10800	0.02J	441	3.5J	No Data	11.0	No Data	18.4
SS94-004 18-24"	11/15/1994	Soil	337	13100	0.02J	651	6.5J	No Data	10.7	No Data	22.3
SS94-005 0-6"	11/15/1994	Soil	83.8	11000	0.03J	391	1.9J	No Data	10.9	No Data	14.5
SS94-005 6-12"	11/15/1994	Soil	12.2	12300	0.02J	346	1.8J	No Data	8.6	No Data	11.3
SS94-006 0-6"	11/15/1994	Soil	16.9	12100	0.02U	374	0.95J	No Data	11.5	No Data	12.2
SS94-006 6-12"	11/15/1994	Soil	18.4	11600	0.03J	372	0.95J	No Data	11.5	No Data	12.6
SS94-006 12-18"	11/15/1994	Soil	13.8	11600	0.03J	375	0.89J	No Data	13.1	No Data	12.3
SS94-006 18-24"	11/15/1994	Soil	13.0	11400	0.03J	377	0.80J	No Data	10.7	No Data	12.1
SS94-006 18-24" (Dup)	11/15/1994	Soil	13.9	12000	0.03J	386	0.90J	No Data	12.7	No Data	13.1
SS94-007 0-6"	11/15/1994	Soil	13.7	10100	0.02U	430	0.73J	No Data	10.6	No Data	10.6
SS94-008 0-6"	11/15/1994	Soil	12.6	11400	0.02U	422	0.94J	No Data	10.8	No Data	11.8
SS94-009 0-6"	11/14/1994	Soil	137	8190	0.02U	353	2.5J	No Data	11.1	No Data	22.5
SS94-009 6-12"	11/14/1994	Soil	155	8550	0.02U	337	2.7J	No Data	12.1	No Data	23.8
SS94-009 12-18"	11/14/1994	Soil	49.1	11300	0.02U	359	2.1J	No Data	11.5	No Data	16.2
SS94-009 18-24"	11/14/1994	Soil	41.0	12100	0.02U	337	1.9J	No Data	10.4	No Data	11.5
SS94-010 0-6"	11/14/1994	Soil	23.6	10800	0.02U	383	1.3J	No Data	9.1	No Data	10.0
SS94-010 6-12"	11/14/1994	Soil	23.6	8850	0.02U	164	1.1J	No Data	7.8J	No Data	10.1
SS94-010 12-18"	11/14/1994	Soil	28.7	10800	0.02U	222	1.4J	No Data	8.7	No Data	10.1
SS94-010 18-24"	11/14/1994	Soil	34.1	11400	0.02U	167	1.5J	No Data	11.5	No Data	15.7
SS94-011 0-6"	11/15/1994	Soil	46.6	12000	0.02U	327	1.9J	No Data	10.3	No Data	11.7
SS94-011 0-6" (Dup)	11/15/1994	Soil	18.8	11900	0.02U	359	2.3J	No Data	10.1	No Data	12.2
SS94-011 6-12"	11/15/1994	Soil	80.6	12100	0.02U	373	2.5J	No Data	11.9	No Data	15.7
SS94-011 12-18"	11/15/1994	Soil	27.1	12000	0.02U	412	3.7J	No Data	10.9	No Data	14.3
SS94-011 18-24"	11/15/1994	Soil	17.4	13700	0.02U	461	4.6J	No Data	11.4	No Data	11.6
UBPSD95-01 0-6"	08/23/1995	Sediment	43.3	No Data	No Data	209	2.6UJ	280J	No Data	0.77B	No Data
UBPSD95-01 0-24"	08/23/1995	Sediment	13.5	No Data	No Data	418	2.6UJ	240J	No Data	1.3	No Data
UBPSD95-02 0-6"	08/23/1995	Sediment	220	No Data	No Data	395	2.6UJ	312J	No Data	0.70B	No Data
UBPSD95-02 0-12"	08/23/1995	Sediment	133	No Data	No Data	326	2.6UJ	294J	No Data	1.3	No Data
UBPSD95-03 0-6"	08/23/1995	Sediment	12.8	No Data	No Data	150	2.6UJ	211J	No Data	0.84B	No Data
UBPSD95-03 0-24"	08/23/1995	Sediment	14.3	No Data	No Data	161	2.6UJ	212J	No Data	0.66B	No Data
UBPSD95-04 0-6"	08/23/1995	Sediment	31.8	No Data	No Data	427	2.6UJ	295J	No Data	0.79B	No Data

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[b]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit. (DL). N -- Spiked sample recovery is not within control limits. * -- Duplicate analysis is not within control limits.

Soil and Sediment Metals, Nitrate, and Sulfate Data[a]

Sample Location	Sample Date	Sample Type	Sb (mg/kg)	Se (mg/kg)	Sn (mg/kg)	SO_4[b] (mg/kg)	Tl (mg/kg)	U (mg/kg)	V (mg/kg)	Zn (mg/kg)
Down-Gradient - Upper Montezuma Creek										
SS94-003 0-6"	11/16/1994	Soil	7.4UJ	0.74J	1.5J	No Data	0.20U	16.4	68.4	54.4
SS94-003 6-12"	11/16/1994	Soil	7.4UJ	0.60U	2.2J	No Data	0.20U	23.6	159	48.5
SS94-003 12-18"	11/16/1994	Soil	7.4UJ	0.60U	1.9J	No Data	0.20U	19.2	106	45.9
SS94-003 18-24"	11/16/1994	Soil	7.4UJ	0.60U	2.8J	No Data	0.20U	12.5	62.6	47.5
SS94-003 18-24" (Dup)	11/16/1994	Soil	7.4UJ	0.60U	1.5J	No Data	0.20U	12.8	59.7	47.8
SS94-004 0-6"	11/15/1994	Soil	7.4UJ	0.60UJ	1.8J	No Data	0.20U	44.1	120	47.5
SS94-004 6-12"	11/15/1994	Soil	7.4UJ	0.60U	1.7J	No Data	0.20U	17.9	44.2	42.5
SS94-004 12-18"	11/15/1994	Soil	7.4UJ	1.3	1.9J	No Data	0.20J	20.3	99.5	55.8
SS94-004 18-24"	11/15/1994	Soil	7.4UJ	1.8J	1.8J	No Data	0.26J	23.4	187	66.9
SS94-005 0-6"	11/15/1994	Soil	7.4UJ	0.60U	2.0J	No Data	0.20U	33.5	180	49.5
SS94-005 6-12"	11/15/1994	Soil	7.4UJ	0.60UJ	2.0J	No Data	0.20U	8.9	45.2	42.8
SS94-006 0-6"	11/15/1994	Soil	7.4UJ	0.60U	1.6J	No Data	0.20U	6.4	34.2	60.5
SS94-006 6-12"	11/15/1994	Soil	7.4UJ	0.60U	1.5J	No Data	0.20U	8.1	41.0	55.2
SS94-006 12-18"	11/15/1994	Soil	7.4UJ	0.60U	1.5J	No Data	0.20U	6.0	26.4	54.6
SS94-006 18-24"	11/15/1994	Soil	7.4UJ	0.60U	1.4J	No Data	0.20U	5.0	24.3	54.8
SS94-006 18-24" (Dup)	11/15/1994	Soil	7.4UJ	0.60U	1.6J	No Data	0.22J	4.8	24.7	60.7
SS94-007 0-6"	11/15/1994	Soil	7.4UJ	0.60U	1.7J	No Data	0.20U	5.1	27.2	40.0
SS94-008 0-6"	11/15/1994	Soil	7.4UJ	0.60UJ	1.5J	No Data	0.20U	5.4	34.4	47.2
SS94-009 0-6"	11/14/1994	Soil	7.4UJ	1.4J	2.4J	No Data	0.29J	98.9	488	66.4
SS94-009 6-12"	11/14/1994	Soil	7.4UJ	0.64J	2.6J	No Data	0.30J	118	673.	57.0
SS94-009 12-18"	11/14/1994	Soil	7.4UJ	0.70J	2.4J	No Data	0.22J	54.9	364	47.5
SS94-009 18-24"	11/14/1994	Soil	7.4UJ	0.60U	2.2J	No Data	0.20U	29.3	64.3	43.2
SS94-010 0-6"	11/14/1994	Soil	7.4UJ	0.60U	2.1J	No Data	0.20U	21.8	126	38.4
SS94-010 6-12"	11/14/1994	Soil	7.4UJ	0.60U	2.3J	No Data	0.20U	28.2	166	32.8
SS94-010 12-18"	11/14/1994	Soil	7.4UJ	0.60U	2.0J	No Data	0.20U	14.2	65.8	39.6
SS94-010 18-24"	11/14/1994	Soil	7.4UJ	0.60U	2.2J	No Data	0.20U	18.9	114	44.2
SS94-011 0-6"	11/15/1994	Soil	7.4UJ	0.60U	2.2J	No Data	0.20U	16.1	64.0	45.6
SS94-011 0-6" (Dup)	11/15/1994	Soil	7.4UJ	0.60U	2.2J	No Data	0.20U	15.5	131	39.7
SS94-011 6-12"	11/15/1994	Soil	7.4UJ	0.60U	2.1J	No Data	0.20U	30.5	182	52.9
SS94-011 12-18"	11/15/1994	Soil	7.4UJ	0.60J	1.7J	No Data	0.20U	18.0	82.6	53.0
SS94-011 18-24"	11/15/1994	Soil	7.4UJ	0.62J	1.8J	No Data	0.20U	15.9	141	54.6
UBPSD95-01 0-6"	08/23/1995	Sediment	No Data	0.47J	0.10R	176*	No Data	No Data	52.8	53.1
UBPSD95-01 0-24"	08/23/1995	Sediment	No Data	0.55J	0.10R	191*	No Data	No Data	35.2	49.5
UBPSD95-02 0-6"	08/23/1995	Sediment	No Data	2.5J	0.10R	119*	No Data	No Data	167	64.9
UBPSD95-02 0-12"	08/23/1995	Sediment	No Data	1.4J	0.10R	284*	No Data	No Data	102	65.6
UBPSD95-03 0-6"	08/23/1995	Sediment	No Data	0.22UJ	0.10R	145*	No Data	No Data	27.7	37.1
UBPSD95-03 0-24"	08/23/1995	Sediment	No Data	0.30J	0.10R	175*	No Data	No Data	25.7	40.4
UBPSD95-04 0-6"	08/23/1995	Sediment	No Data	2.4J	0.10J	205*	No Data	No Data	90.5	53.8

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Soil and Sediment Metals, Nitrate, and Sulfate Data[a]

Sample Location	Sample Date	Sample Type	Ag (mg/kg)	Al (mg/kg)	As (mg/kg)	B (mg/kg)	Ba (mg/kg)	Be (mg/kg)	Cd (mg/kg)	Co (mg/kg)	Cr (mg/kg)
Down-Gradient - Upper Montezuma Creek											
UBPSD95-05 0-6"	08/23/1995	Sediment	No Data	11700	11.6J	5.3J	No Data	No Data	No Data	7.4	No Data
Down-Gradient - Middle Montezuma Creek											
24SD96-01 0-3"	05/28/1996	Sediment	No Data	19000	7.4	No Data	No Data	No Data	No Data	6.8	No Data
24SD96-02 0-3"	05/28/1996	Sediment	No Data	10800	6.8	No Data	No Data	No Data	No Data	6.2	No Data
24SS96-N 0-3"	05/28/1996	Soil	No Data	16800	4.4	No Data	No Data	No Data	No Data	5.2	No Data
24SS96-N 3-24"	05/28/1996	Soil	No Data	10600	5.1	No Data	No Data	No Data	No Data	6.2	No Data
24SS96-S 0-3"	05/28/1996	Soil	No Data	11600	11.0	No Data	No Data	No Data	No Data	8.3	No Data
24SS96-S 3-24"	05/28/1996	Soil	No Data	11500	11.4	No Data	No Data	No Data	No Data	8.3	No Data
25SD96-01 0-3"	05/29/1996	Sediment	No Data	8210	3.0	No Data	No Data	No Data	No Data	3.6J	No Data
25SD96-02 0-3"	05/29/1996	Sediment	No Data	11800	3.2	No Data	No Data	No Data	No Data	3.6J	No Data
25SS96-N 0-3"	05/29/1996	Soil	No Data	15400	8.0	No Data	No Data	No Data	No Data	7.1	No Data
25SS96-N 3-24"	05/29/1996	Soil	No Data	16000	6.1	No Data	No Data	No Data	No Data	6.1	No Data
25SS96-N 3-24" (Dup)	05/29/1996	Soil	No Data	15900	6.0	No Data	No Data	No Data	No Data	6.1	No Data
25SS96-S 0-3"	05/29/1996	Soil	No Data	9650	7.9	No Data	No Data	No Data	No Data	7.6	No Data
25SS96-S 3-24"	05/29/1996	Soil	No Data	12600	7.7	No Data	No Data	No Data	No Data	7.2	No Data
HH14-96 0-3"	05/29/1996	Soil	No Data	13800	5.5	No Data	No Data	No Data	No Data	6.1	No Data
HH17-96 0-3"	05/29/1996	Soil	No Data	11300	2.8	No Data	No Data	No Data	No Data	4.1J	No Data
HH18-96 0-3"	05/30/1996	Soil	No Data	12200	2.7	No Data	No Data	No Data	No Data	3.8J	No Data
R18-96 0-3"	05/28/1996	Soil	No Data	11800	4.9	No Data	No Data	No Data	No Data	6.4	No Data
R19-96 0-3"	05/28/1996	Soil	No Data	14500	10.7	No Data	No Data	No Data	No Data	8.2	No Data
R19-96 3-9"	05/28/1996	Soil	No Data	13800	9.9	No Data	No Data	No Data	No Data	6.4	No Data
R19-96 3-9" (Dup)	05/28/1996	Soil	No Data	9710	8.6	No Data	No Data	No Data	No Data	6.7	No Data
R20-96 0-3"	05/28/1996	Soil	No Data	16600	6.4	No Data	No Data	No Data	No Data	6.3	No Data
R20-96 3-9"	05/29/1996	Soil	No Data	12600	5.9	No Data	No Data	No Data	No Data	6.1	No Data
R21-96 0-3"	05/28/1996	Soil	No Data	6880	3.8	No Data	No Data	No Data	No Data	5.2	No Data
R22-96 0-3"	05/28/1996	Soil	No Data	12800	12.3	No Data	No Data	No Data	No Data	8.9	No Data
R23-96 0-3"	05/28/1996	Soil	No Data	12500	9.8	No Data	No Data	No Data	No Data	6.7	No Data
R23-96 33-39"	05/29/1996	Soil	No Data	9650	24.5	No Data	No Data	No Data	No Data	14.5	No Data
R24-96 0-3"	05/28/1996	Soil	No Data	14200	4.7	No Data	No Data	No Data	No Data	5.4	No Data
R24-96 3-9"	05/29/1996	Soil	No Data	10100	3.3	No Data	No Data	No Data	No Data	5.6	No Data
R25-96 0-3"	05/28/1996	Soil	No Data	10900	9.6	No Data	No Data	No Data	No Data	7.5	No Data
R26-96 0-3"	05/30/1996	Soil	No Data	12500	4.6	No Data	No Data	No Data	No Data	4.9J	No Data
R27-96 0-3"	05/30/1996	Soil	No Data	9850	7.8	No Data	No Data	No Data	No Data	7.0	No Data
R27-96 21-27"	05/30/1996	Soil	No Data	10600	18.2	No Data	No Data	No Data	No Data	11.5	No Data
R27-96 21-27" (Dup)	05/30/1996	Soil	No Data	14800	18.2	No Data	No Data	No Data	No Data	10.8	No Data
R28-96 0-3"	05/29/1996	Soil	No Data	11200	5.9	No Data	No Data	No Data	No Data	6.2	No Data
R29-96 0-3"	05/29/1996	Soil	No Data	8720	4.3	No Data	No Data	No Data	No Data	4.9J	No Data
R29-96 3-9"	05/29/1996	Soil	No Data	11000	4.6	No Data	No Data	No Data	No Data	4.9J	No Data

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Soil and Sediment Metals, Nitrate, and Sulfate Data[a]

Sample Location	Sample Date	Sample Type	Cu (mg/kg)	Fe (mg/kg)	Hg (mg/kg)	Mn (mg/kg)	Mo (mg/kg)	Na (mg/kg)	Ni (mg/kg)	NO_3+NO_2-N[b] (mg/kg)	Pb (mg/kg)
Down-Gradient - Upper Montezuma Creek											
UBPSD95-05 0-6"	08/23/1995	Sediment	152	No Data	No Data	230	2.6UJ	318J	No Data	0.70B	No Data
Down-Gradient - Middle Montezuma Creek											
24SD96-01 0-3"	05/28/1996	Sediment	27.7	No Data	No Data	1220	3.5J	352J	No Data	0.28*	19.9J
24SD96-02 0-3"	05/28/1996	Sediment	32.6	No Data	No Data	697	2.8J	313J	No Data	No Data	12.2J
24SS96-N 0-3"	05/28/1996	Soil	12.1	No Data	No Data	329	0.50J	271J	No Data	3.5*	10.9
24SS96-N 3-24"	05/28/1996	Soil	11.8	No Data	No Data	336	0.56J	103J	No Data	2.4*	10.0
24SS96-S 0-3"	05/28/1996	Soil	132	No Data	No Data	805	2.0J	277J	No Data	1.3*	16.3
24SS96-S 3-24"	05/28/1996	Soil	205	No Data	No Data	414	2.6J	310J	No Data	2.9*	17.2
25SD96-01 0-3"	05/29/1996	Sediment	9.4	No Data	No Data	346	0.47U	128J	No Data	0.42*	10.5J
25SD96-02 0-3"	05/29/1996	Sediment	9.5	No Data	No Data	347	0.55U	132J	No Data	No Data	7.3J
25SS96-N 0-3"	05/29/1996	Soil	131	No Data	No Data	380	1.1J	247J	No Data	3.0*	14.8
25SS96-N 3-24"	05/29/1996	Soil	38.3	No Data	No Data	303	1.2J	252J	No Data	2.4*	10.9
25SS96-N 3-24" (Dup)	05/29/1996	Soil	45.2	No Data	No Data	320	1.3J	246J	No Data	2.2*	11.2
25SS96-S 0-3"	05/29/1996	Soil	164	No Data	No Data	403	0.86J	220J	No Data	3.0	17.3
25SS96-S 3-24"	05/29/1996	Soil	94.0	No Data	No Data	388	1.7J	281J	No Data	2.6	14.2
HH14-96 0-3"	05/29/1996	Soil	16.1	No Data	No Data	365	0.68J	192J	No Data	2.8	10.6
HH17-96 0-3"	05/29/1996	Soil	6.4	No Data	No Data	270	0.17J	121J	No Data	0.97*	6.7
HH18-96 0-3"	05/30/1996	Soil	5.8	No Data	No Data	259	0.15J	122J	No Data	1.6	6.2
R18-96 0-3"	05/28/1996	Soil	28.1	No Data	No Data	391	0.91J	158J	No Data	1.9	12.3
R19-96 0-3"	05/28/1996	Soil	107	No Data	No Data	375	1.4J	350J	No Data	1.0	15.9
R19-96 3-9"	05/28/1996	Soil	39.0	No Data	No Data	367	1.4J	221J	No Data	0.92	15.7
R19-96 3-9" (Dup)	05/28/1996	Soil	36.3	No Data	No Data	377	1.4J	223J	No Data	1.1	11.9
R20-96 0-3"	05/28/1996	Soil	15.9	No Data	No Data	410	0.92J	184J	No Data	6.8	12.0
R20-96 3-9"	05/29/1996	Soil	12.3	No Data	No Data	377	0.93J	169J	No Data	2.7	10.7
R21-96 0-3"	05/28/1996	Soil	17.3	No Data	No Data	353	0.71J	126J	No Data	10.4*	10.7
R22-96 0-3"	05/28/1996	Soil	135	No Data	No Data	415	1.8J	434J	No Data	2.0*	16.9
R23-96 0-3"	05/28/1996	Soil	180	No Data	No Data	335	2.0J	443J	No Data	1.6*	14.2
R23-96 33-39"	05/29/1996	Soil	1080	No Data	No Data	430	5.0J	581	No Data	0.23	31.5
R24-96 0-3"	05/28/1996	Soil	11.9	No Data	No Data	360	0.63J	135J	No Data	4.3*	9.3
R24-96 3-9"	05/29/1996	Soil	15.3	No Data	No Data	386	0.69J	84.6J	No Data	2.7	8.6
R25-96 0-3"	05/28/1996	Soil	213	No Data	No Data	349	1.5J	251J	No Data	1.0*	15.6
R26-96 0-3"	05/30/1996	Soil	13.8	No Data	No Data	359	0.52J	129J	No Data	3.9	10.2
R27-96 0-3"	05/30/1996	Soil	125	No Data	No Data	388	1.3J	417J	No Data	4.3	14.6
R27-96 21-27"	05/30/1996	Soil	440	No Data	No Data	475	3.3J	389J	No Data	1.4	24.5
R27-96 21-27" (Dup)	05/30/1996	Soil	408	No Data	No Data	450	3.3J	477J	No Data	0.68	23.3
R28-96 0-3"	05/29/1996	Soil	15.7	No Data	No Data	363	0.77J	177J	No Data	4.2	11.3
R29-96 0-3"	05/29/1996	Soil	11.4	No Data	No Data	331	0.50J	80.5J	No Data	13.4*	9.6
R29-96 3-9"	05/29/1996	Soil	11.2	No Data	No Data	357	0.60J	102J	No Data	8.9*	9.8

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[b]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit N -- Spiked sample recovery is not within control limits. * -- Duplicate analysis is not within control limits.

Soil and Sediment Metals, Nitrate, and Sulfate Data[a]

Sample Location	Sample Date	Sample Type	Sb (mg/kg)	Se (mg/kg)	Sn (mg/kg)	SO_4[b] (mg/kg)	Tl (mg/kg)	U (mg/kg)	V (mg/kg)	Zn (mg/kg)
Down-Gradient - Upper Montezuma Creek										
UBPSD95-05 0-6"	08/23/1995	Sediment	No Data	1.0UJ	0.10R	285*	No Data	No Data	127	62.7
Down-Gradient - Middle Montezuma Creek										
24SD96-01 0-3"	05/28/1996	Sediment	No Data	6.3J	No Data	695	No Data	35.2	97.7	58.7
24SD96-02 0-3"	05/28/1996	Sediment	No Data	4.2J	No Data	No Data	No Data	30.3	90.0	51.2
24SS96-N 0-3"	05/28/1996	Soil	No Data	1.3	No Data	110	No Data	3.5	30.1	44.3
24SS96-N 3-24"	05/28/1996	Soil	No Data	1.3	No Data	99.6	No Data	3.3	18.0	44.7
24SS96-S 0-3"	05/28/1996	Soil	No Data	3.6	No Data	228	No Data	24.4	126	59.8
24SS96-S 3-24"	05/28/1996	Soil	No Data	3.5	No Data	165	No Data	26.1	141	67.4
25SD96-01 0-3"	05/29/1996	Sediment	No Data	0.62J	No Data	561	No Data	6.9	23.2	29.2
25SD96-02 0-3"	05/29/1996	Sediment	No Data	0.50J	No Data	No Data	No Data	6.2	29.2	28.9
25SS96-N 0-3"	05/29/1996	Soil	No Data	2.5	No Data	416	No Data	17.4	91.8J	58.2
25SS96-N 3-24"	05/29/1996	Soil	No Data	1.7	No Data	270	No Data	16.6	42.4J	48.7
25SS96-N 3-24" (Dup)	05/29/1996	Soil	No Data	1.8	No Data	248	No Data	17.9	44.3J	51.7
25SS96-S 0-3"	05/29/1996	Soil	No Data	2.1	No Data	42.5	No Data	22.4	91.0J	66.7
25SS96-S 3-24"	05/29/1996	Soil	No Data	2.6	No Data	271	No Data	21.9	71.5J	64.5
HH14-96 0-3"	05/29/1996	Soil	No Data	2.4	No Data	22.1	No Data	5.0	30.9	53.0
HH17-96 0-3"	05/29/1996	Soil	No Data	1.0	No Data	633	No Data	2.3	15.7J	26.1
HH18-96 0-3"	05/30/1996	Soil	No Data	0.30U	No Data	605*	No Data	2.2	16.6	24.2
R18-96 0-3"	05/28/1996	Soil	No Data	1.8	No Data	40.3	No Data	7.2	39.6	59.9
R19-96 0-3"	05/28/1996	Soil	No Data	2.7	No Data	62.7	No Data	41.9	220	55.8
R19-96 3-9"	05/28/1996	Soil	No Data	2.6	No Data	48.7	No Data	23.9	131	49.6
R19-96 3-9" (Dup)	05/28/1996	Soil	No Data	2.1	No Data	48.2	No Data	23.2	123	46.1
R20-96 0-3"	05/28/1996	Soil	No Data	2.1	No Data	128	No Data	5.1	37.7	64.6
R20-96 3-9"	05/29/1996	Soil	No Data	2.7	No Data	41.8	No Data	3.6	24.9	51.8
R21-96 0-3"	05/28/1996	Soil	No Data	1.4	No Data	16.2	No Data	5.2	24.1	49.9
R22-96 0-3"	05/28/1996	Soil	No Data	2.7	No Data	28.2	No Data	38.8	214	63.0
R23-96 0-3"	05/28/1996	Soil	No Data	3.4	No Data	594	No Data	45.7	154	67.5
R23-96 33-39"	05/29/1996	Soil	No Data	4.3	No Data	167	No Data	46.2	351	110
R24-96 0-3"	05/28/1996	Soil	No Data	1.5	No Data	13.0	No Data	2.9	23.5	49.0
R24-96 3-9"	05/29/1996	Soil	No Data	1.4	No Data	12.4	No Data	2.9	17.1	42.8
R25-96 0-3"	05/28/1996	Soil	No Data	3.5	No Data	27.9	No Data	28.8	155	66.5
R26-96 0-3"	05/30/1996	Soil	No Data	0.74	No Data	69.1*	No Data	4.0	22.8	49.3
R27-96 0-3"	05/30/1996	Soil	No Data	1.7	No Data	2600*	No Data	27.3	67.4	59.1
R27-96 21-27"	05/30/1996	Soil	No Data	1.8	No Data	584*	No Data	42.8	272	71.7
R27-96 21-27" (Dup)	05/30/1996	Soil	No Data	1.8	No Data	596*	No Data	40.7	280	72.9
R28-96 0-3"	05/29/1996	Soil	No Data	1.6	No Data	11.2	No Data	5.1	30.7J	55.5
R29-96 0-3"	05/29/1996	Soil	No Data	1.5	No Data	24.6	No Data	3.3	16.2J	45.5
R29-96 3-9"	05/29/1996	Soil	No Data	1.4	No Data	30.6	No Data	3.4	19.3J	46.6

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Soil and Sediment Metals, Nitrate, and Sulfate Data[a]

Sample Location	Sample Date	Sample Type	Ag (mg/kg)	Al (mg/kg)	As (mg/kg)	B (mg/kg)	Ba (mg/kg)	Be (mg/kg)	Cd (mg/kg)	Co (mg/kg)	Cr (mg/kg)
Down-Gradient - Middle Montezuma Creek											
R30-96 0-3"	05/29/1996	Soil	No Data	14800	5.8	No Data	No Data	No Data	No Data	5.5	No Data
R30-96 3-9"	05/29/1996	Soil	No Data	12600	4.7	No Data	No Data	No Data	No Data	5.4	No Data
R31-96 0-3"	05/29/1996	Soil	No Data	16000	8.5	No Data	No Data	No Data	No Data	7.3	No Data
R32-96 0-3"	05/30/1996	Soil	No Data	21900	9.1	No Data	No Data	No Data	No Data	7.9	No Data
R32-96 3-9"	05/30/1996	Soil	No Data	8730	9.8	No Data	No Data	No Data	No Data	6.5	No Data
R32-96 3-9" (Dup)	05/30/1996	Soil	No Data	12800	10.2	No Data	No Data	No Data	No Data	7.4	No Data
R33-96 0-3"	05/30/1996	Soil	No Data	15200	6.9	No Data	No Data	No Data	No Data	6.7	No Data
R33-96 3-9"	05/30/1996	Soil	No Data	14700	9.0	No Data	No Data	No Data	No Data	7.7	No Data
R34-96 0-3"	05/30/1996	Soil	No Data	11000	8.7	No Data	No Data	No Data	No Data	6.8	No Data
R35-96 0-3"	05/30/1996	Soil	No Data	9010	8.2	No Data	No Data	No Data	No Data	7.5	No Data
R36-96 0-3"	05/30/1996	Soil	No Data	9910	6.9	No Data	No Data	No Data	No Data	6.4	No Data
R37-96 0-3"	05/30/1996	Soil	No Data	9050	6.8	No Data	No Data	No Data	No Data	6.2	No Data
R38-96 0-3"	05/30/1996	Soil	No Data	13500	5.7	No Data	No Data	No Data	No Data	5.7	No Data
Down-Gradient - Lower Montezuma Creek											
06SD95-01 0-6"	08/24/1995	Sediment	No Data	15100	4.8J	7.3J	No Data	No Data	No Data	5.0	No Data
06SD95-01 0-6" (Dup)	08/24/1995	Sediment	No Data	13700	7.2J	5.5J	No Data	No Data	No Data	4.5J	No Data
06SS95-01 0-3"	07/20/1995	Soil	No Data	8170	9.1J	2.1J	No Data	No Data	No Data	7.1	No Data
06SS95-01 3-24"	07/20/1995	Soil	No Data	8960	8.4J	2.2J	No Data	No Data	No Data	5.3	No Data
06SS95-02 0-3"	07/20/1995	Soil	No Data	10600	2.8J	4.5J	No Data	No Data	No Data	4.8J	No Data
06SS95-02 3-24"	07/20/1995	Soil	No Data	12700	2.9J	3.8J	No Data	No Data	No Data	5.4	No Data
07SD95-01 0-3"	08/24/1995	Sediment	No Data	11600	3.8J	5.6J	No Data	No Data	No Data	3.9J	No Data
07SS95-01 0-3"	07/25/1995	Soil	No Data	10900	5.3J	0.6U	No Data	No Data	No Data	5.2	No Data
07SS95-01 3-24"	07/25/1995	Soil	No Data	9750	13.1J	0.6U	No Data	No Data	No Data	6.1	No Data
07SS95-02 0-3"	07/24/1995	Soil	No Data	14100	3.4J	0.6U	No Data	No Data	No Data	5.4	No Data
07SS95-02 3-24"	07/24/1995	Soil	No Data	14000	4.1J	0.6U	No Data	No Data	No Data	6.2	No Data
08SD95-01 0-3"	08/24/1995	Sediment	No Data	11700	2.2J	5.6J	No Data	No Data	No Data	4.0J	No Data
08SS95-01 0-3"	07/25/1995	Soil	No Data	12700	6.1J	0.6U	No Data	No Data	No Data	4.1J	No Data
08SS95-01 3-24"	07/25/1995	Soil	No Data	9690	6.9J	0.6U	No Data	No Data	No Data	4.5J	No Data
08SS95-02 0-3"	07/25/1995	Soil	No Data	10100	5.7J	0.6U	No Data	No Data	No Data	4.9J	No Data
08SS95-02 3-24"	07/25/1995	Soil	No Data	10300	3.9J	0.6U	No Data	No Data	No Data	5.4	No Data
08SS95-02 3-24" (Dup)	07/25/1995	Soil	No Data	9600	4.8J	0.6U	No Data	No Data	No Data	5.0	No Data
09SD95-01 0-6"	08/24/1995	Sediment	No Data	12100	18.1J	5.1J	No Data	No Data	No Data	8.8	No Data
09SS95-01 0-3"	07/25/1995	Soil	No Data	9730	3.5J	0.6U	No Data	No Data	No Data	3.9J	No Data
09SS95-01 3-24"	07/25/1995	Soil	No Data	9670	7.6J	0.6U	No Data	No Data	No Data	5.4	No Data
09SS95-02 0-3"	07/25/1995	Soil	No Data	11300	4.5J	0.6U	No Data	No Data	No Data	4.6J	No Data
09SS95-02 3-24"	07/25/1995	Soil	No Data	9880	8.4J	0.6U	No Data	No Data	No Data	8.3	No Data
HH19-96 0-3"	05/30/1996	Soil	No Data	10700	8.3	No Data	No Data	No Data	No Data	6.3	No Data
HH20-96 0-3"	05/30/1996	Soil	No Data	11600	9.2	No Data	No Data	No Data	No Data	6.7	No Data

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.

Soil and Sediment Metals, Nitrate, and Sulfate Data[a]

Sample Location	Sample Date	Sample Type	Cu (mg/kg)	Fe (mg/kg)	Hg (mg/kg)	Mn (mg/kg)	Mo (mg/kg)	Na (mg/kg)	Ni (mg/kg)	NO_3+NO_2-N[b] (mg/kg)	Pb (mg/kg)
Down-Gradient - Middle Montezuma Creek											
R30-96 0-3"	05/29/1996	Soil	12.1	No Data	No Data	402	0.84J	154J	No Data	6.1*	11.3
R30-96 3-9"	05/29/1996	Soil	11.8	No Data	No Data	397	0.61J	118J	No Data	3.1*	10.1
R31-96 0-3"	05/29/1996	Soil	88.6	No Data	No Data	397	1.2J	172J	No Data	4.9*	16.7
R32-96 0-3"	05/30/1996	Soil	60.1	No Data	No Data	339	2.6J	740	No Data	6.3	18.7
R32-96 3-9"	05/30/1996	Soil	91.3	No Data	No Data	245	1.6J	355J	No Data	2.8	14.0
R32-96 3-9" (Dup)	05/30/1996	Soil	99.3	No Data	No Data	252	1.6J	393J	No Data	2.9	15.7
R33-96 0-3"	05/30/1996	Soil	54.2	No Data	No Data	610	1.5J	156J	No Data	8.3	13.6
R33-96 3-9"	05/30/1996	Soil	162	No Data	No Data	204	2.3J	221J	No Data	2.4	17.4
R34-96 0-3"	05/30/1996	Soil	122	No Data	No Data	336	0.94J	208J	No Data	1.4	13.8
R35-96 0-3"	05/30/1996	Soil	94.9	No Data	No Data	365	1.0J	165J	No Data	2.8	18.3
R36-96 0-3"	05/30/1996	Soil	100	No Data	No Data	413	0.69J	141J	No Data	2.1	12.6
R37-96 0-3"	05/30/1996	Soil	37.5	No Data	No Data	367	0.78J	153J	No Data	1.9	12.2
R38-96 0-3"	05/30/1996	Soil	81.0	No Data	No Data	346	0.78J	140J	No Data	2.5	13.4
Down-Gradient - Lower Montezuma Creek											
06SD95-01 0-6"	08/24/1995	Sediment	18.1	No Data	No Data	445	2.6UJ	221J	No Data	0.51B	No Data
06SD95-01 0-6" (Dup)	08/24/1995	Sediment	17.3	No Data	No Data	519	2.6UJ	246J	No Data	0.48B	No Data
06SS95-01 0-3"	07/20/1995	Soil	80.3	No Data	No Data	300	2.6UJ	361J	No Data	3.7*	No Data
06SS95-01 3-24"	07/20/1995	Soil	29.0	No Data	No Data	322	2.6UJ	222J	No Data	2.7*	No Data
06SS95-02 0-3"	07/20/1995	Soil	10.8	No Data	No Data	333	2.6UJ	72.4J	No Data	2.6*	No Data
06SS95-02 3-24"	07/20/1995	Soil	10.6	No Data	No Data	367	2.6UJ	85.1J	No Data	2.8*	No Data
07SD95-01 0-3"	08/24/1995	Sediment	12.2	No Data	No Data	323	2.6UJ	211J	No Data	0.47B	No Data
07SS95-01 0-3"	07/25/1995	Soil	62.2	No Data	No Data	365	2.6UJ	464J	No Data	2.3N	No Data
07SS95-01 3-24"	07/25/1995	Soil	59.1	No Data	No Data	409	2.6UJ	346J	No Data	1.7N	No Data
07SS95-02 0-3"	07/24/1995	Soil	14.2	No Data	No Data	367	2.6UJ	155J	No Data	4.5N	No Data
07SS95-02 3-24"	07/24/1995	Soil	12.7	No Data	No Data	389	2.6UJ	304J	No Data	3.1N	No Data
08SD95-01 0-3"	08/24/1995	Sediment	7.1	No Data	No Data	273	2.6UJ	98.2J	No Data	0.51B	No Data
08SS95-01 0-3"	07/25/1995	Soil	15.5	No Data	No Data	326	2.6UJ	137J	No Data	2.5N	No Data
08SS95-01 3-24"	07/25/1995	Soil	25.6	No Data	No Data	361	2.6UJ	124J	No Data	2.3N	No Data
08SS95-02 0-3"	07/25/1995	Soil	12.5	No Data	No Data	379	2.6UJ	207J	No Data	5.3N	No Data
08SS95-02 3-24"	07/25/1995	Soil	51.9	No Data	No Data	339	2.6UJ	394J	No Data	5.2N	No Data
08SS95-02 3-24" (Dup)	07/25/1995	Soil	50.0	No Data	No Data	344	2.6UJ	352J	No Data	2.7N	No Data
09SD95-01 0-6"	08/24/1995	Sediment	179	No Data	No Data	529	2.6UJ	405J	No Data	0.37B	No Data
09SS95-01 0-3"	07/25/1995	Soil	17.1	No Data	No Data	324	2.6UJ	210J	No Data	7.6N	No Data
09SS95-01 3-24"	07/25/1995	Soil	66.1	No Data	No Data	400	2.6UJ	210J	No Data	1.9N	No Data
09SS95-02 0-3"	07/25/1995	Soil	28.0	No Data	No Data	364	2.6UJ	854	No Data	2.0N	No Data
09SS95-02 3-24"	07/25/1995	Soil	226	No Data	No Data	463	2.6UJ	319J	No Data	1.8N	No Data
HH19-96 0-3"	05/30/1996	Soil	38.4	No Data	No Data	506	0.90J	976	No Data	3.2	13.4
HH20-96 0-3"	05/30/1996	Soil	64.1	No Data	No Data	564	2.0J	799	No Data	6.4	14.1

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[b]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit N -- Spiked sample recovery is not within control limits. * -- Duplicate analysis is not within control limits.

Soil and Sediment Metals, Nitrate, and Sulfate Data[a]

Sample Location	Sample Date	Sample Type	Sb (mg/kg)	Se (mg/kg)	Sn (mg/kg)	SO_4[b] (mg/kg)	Tl (mg/kg)	U (mg/kg)	V (mg/kg)	Zn (mg/kg)
Down-Gradient - Middle Montezuma Creek										
R30-96 0-3"	05/29/1996	Soil	No Data	1.6	No Data	11.2	No Data	3.6	26.1J	53.2
R30-96 3-9"	05/29/1996	Soil	No Data	1.5	No Data	7.3	No Data	3.1	19.6J	55.0
R31-96 0-3"	05/29/1996	Soil	No Data	2.5	No Data	39.4	No Data	15.1	74.1J	69.7
R32-96 0-3"	05/30/1996	Soil	No Data	3.0	No Data	3970	No Data	34.4	98.8	79.0
R32-96 3-9"	05/30/1996	Soil	No Data	1.0	No Data	1600	No Data	42.2	178	48.4
R32-96 3-9" (Dup)	05/30/1996	Soil	No Data	0.84	No Data	1600	No Data	46.5	189	53.8
R33-96 0-3"	05/30/1996	Soil	No Data	2.5	No Data	50.0	No Data	25.1	72.4	61.9
R33-96 3-9"	05/30/1996	Soil	No Data	1.2	No Data	53.7	No Data	38.9	146	66.1
R34-96 0-3"	05/30/1996	Soil	No Data	1.1	No Data	213	No Data	25.4	134	53.0
R35-96 0-3"	05/30/1996	Soil	No Data	0.92	No Data	77.1	No Data	36.0	178	61.5
R36-96 0-3"	05/30/1996	Soil	No Data	0.74	No Data	34.3*	No Data	15.2	59.4	53.4
R37-96 0-3"	05/30/1996	Soil	No Data	0.74	No Data	96.7*	No Data	9.5	53.7	47.0
R38-96 0-3"	05/30/1996	Soil	No Data	0.77	No Data	12.8*	No Data	11.5	64.8	49.5
Down-Gradient - Lower Montezuma Creek										
06SD95-01 0-6"	08/24/1995	Sediment	No Data	1.0UJ	0.13J	77.7*	No Data	No Data	56.8	42.3
06SD95-01 0-6" (Dup)	08/24/1995	Sediment	No Data	1.5J	0.10R	99.2*	No Data	No Data	51.5	41.1
06SS95-01 0-3"	07/20/1995	Soil	No Data	0.72J	0.10R	17.4	No Data	No Data	311	43.3
06SS95-01 3-24"	07/20/1995	Soil	No Data	0.64	0.10R	86.6	No Data	No Data	170	38.3
06SS95-02 0-3"	07/20/1995	Soil	No Data	0.84J	0.10R	5.1	No Data	No Data	17.7	43.9
06SS95-02 3-24"	07/20/1995	Soil	No Data	0.38J	0.10R	5.8	No Data	No Data	17.1	43.6
07SD95-01 0-3"	08/24/1995	Sediment	No Data	1.0UJ	0.10R	109*	No Data	No Data	27.8	28.8
07SS95-01 0-3"	07/25/1995	Soil	No Data	0.55J	0.10R	1270	No Data	No Data	57.2	47.7
07SS95-01 3-24"	07/25/1995	Soil	No Data	0.69J	0.10R	250	No Data	No Data	69.9	45.0
07SS95-02 0-3"	07/24/1995	Soil	No Data	0.69	0.10R	297	No Data	No Data	21.4	58.9
07SS95-02 3-24"	07/24/1995	Soil	No Data	0.27J	0.10R	520	No Data	No Data	18.6	52.2
08SD95-01 0-3"	08/24/1995	Sediment	No Data	0.20UJ	0.10R	73.2*	No Data	No Data	17.5	23.8
08SS95-01 0-3"	07/25/1995	Soil	No Data	0.66J	0.10R	166	No Data	No Data	27.6	34.7
08SS95-01 3-24"	07/25/1995	Soil	No Data	0.26J	0.10R	109	No Data	No Data	33.5	35.9
08SS95-02 0-3"	07/25/1995	Soil	No Data	0.51	0.10R	283	No Data	No Data	18.3	35.7
08SS95-02 3-24"	07/25/1995	Soil	No Data	0.61	0.10R	459	No Data	No Data	32.0	40.8
08SS95-02 3-24" (Dup)	07/25/1995	Soil	No Data	0.31J	0.10R	570	No Data	No Data	28.4	42.8
09SD95-01 0-6"	08/24/1995	Sediment	No Data	3.6J	0.10J	103*	No Data	No Data	166	69.5
09SS95-01 0-3"	07/25/1995	Soil	No Data	0.49J	0.10R	195	No Data	No Data	23.3	34.1
09SS95-01 3-24"	07/25/1995	Soil	No Data	0.89J	0.10R	27.2	No Data	No Data	59.2	40.1
09SS95-02 0-3"	07/25/1995	Soil	No Data	0.86J	0.10R	1890	No Data	No Data	43.3	39.3
09SS95-02 3-24"	07/25/1995	Soil	No Data	1.5	0.10R	325	No Data	No Data	100	51.8
HH19-96 0-3"	05/30/1996	Soil	No Data	0.95	No Data	2300	No Data	10.7	45.5	58.4
HH20-96 0-3"	05/30/1996	Soil	No Data	1.5	No Data	2850	No Data	22.3	79.7	59.1

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[b]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit N -- Spiked sample recovery is not within control limits. * -- Duplicate analysis is not within control limits.

Soil and Sediment Metals, Nitrate, and Sulfate Data[a]

Sample Location	Sample Date	Sample Type	Ag (mg/kg)	Al (mg/kg)	As (mg/kg)	B (mg/kg)	Ba (mg/kg)	Be (mg/kg)	Cd (mg/kg)	Co (mg/kg)	Cr (mg/kg)
Down-Gradient - Lower Montezuma Creek											
HH21-96 0-3"	05/30/1996	Soil	No Data	11500	4.4	No Data	No Data	No Data	No Data	4.7J	No Data
HH22-96 0-3"	05/30/1996	Soil	No Data	14300	5.2	No Data	No Data	No Data	No Data	4.6J	No Data
HH23-96 0-3"	05/30/1996	Soil	No Data	14400	6.6	No Data	No Data	No Data	No Data	5.3	No Data
HH24-96 0-3"	05/30/1996	Soil	No Data	13000	5.2	No Data	No Data	No Data	No Data	3.9J	No Data
HH25-96 0-3"	05/30/1996	Soil	No Data	11200	8.9	No Data	No Data	No Data	No Data	5.0	No Data
HH26-96 0-3"	05/30/1996	Soil	No Data	12900	4.2	No Data	No Data	No Data	No Data	4.2J	No Data
R40-96 0-3"	05/31/1996	Soil	No Data	8440	11.0	No Data	No Data	No Data	No Data	8.5	No Data
R41-96 0-3"	05/31/1996	Soil	No Data	12600	5.3	No Data	No Data	No Data	No Data	4.7J	No Data
R41-96 3-9"	06/03/1996	Soil	No Data	14600	4.5	No Data	No Data	No Data	No Data	5.9	No Data
R42-96 0-3"	05/31/1996	Soil	No Data	8940	11.1	No Data	No Data	No Data	No Data	6.4	No Data
R42-96 3-9"	06/03/1996	Soil	No Data	11600	22.4	No Data	No Data	No Data	No Data	4.3J	No Data
R43-96 0-3"	05/31/1996	Soil	No Data	6890	11.7	No Data	No Data	No Data	No Data	7.8	No Data
R43-96 0-3" (Dup)	05/31/1996	Soil	No Data	12600	12.2	No Data	No Data	No Data	No Data	7.7	No Data
R44-96 0-3"	05/31/1996	Soil	No Data	15700	12.2	No Data	No Data	No Data	No Data	8.8	No Data
R44-96 9-15"	05/31/1996	Soil	No Data	14200	18.6	No Data	No Data	No Data	No Data	10.0	No Data
R45-96 0-3"	05/31/1996	Soil	No Data	10500	5.1	No Data	No Data	No Data	No Data	5.1	No Data
R46-96 0-3"	05/30/1996	Soil	No Data	11000	10.7	No Data	No Data	No Data	No Data	5.8	No Data
R47-96 0-3"	05/30/1996	Soil	No Data	7030	4.2	No Data	No Data	No Data	No Data	4.6J	No Data
R48-96 0-3"	05/30/1996	Soil	No Data	8590	4.3	No Data	No Data	No Data	No Data	3.8J	No Data
R49-96 0-3"	05/30/1996	Soil	No Data	10700	13.7	No Data	No Data	No Data	No Data	7.9	No Data
R49-96 15-21"	05/31/1996	Soil	No Data	8680	15.6	No Data	No Data	No Data	No Data	8.4	No Data
R50-96 0-3"	05/31/1996	Soil	No Data	15600	9.0	No Data	No Data	No Data	No Data	5.9	No Data
R51-96 0-3"	05/30/1996	Soil	No Data	11500	4.9	No Data	No Data	No Data	No Data	4.6J	No Data
R51-96 21-27"	06/03/1996	Soil	No Data	18100	3.8	No Data	No Data	No Data	No Data	5.8	No Data
R52-96 0-3"	05/30/1996	Soil	No Data	10300	6.4	No Data	No Data	No Data	No Data	5.2	No Data
R53-96 0-3"	05/30/1996	Soil	No Data	7910	5.3	No Data	No Data	No Data	No Data	5.4	No Data
R54-96 0-3"	06/03/1996	Soil	No Data	9280	3.3	No Data	No Data	No Data	No Data	5.0	No Data
R55-96 0-3"	06/03/1996	Soil	No Data	13400	10.5	No Data	No Data	No Data	No Data	7.1	No Data
R55-96 15-21"	06/03/1996	Soil	No Data	8030	26.3	No Data	No Data	No Data	No Data	21.0	No Data
R56-96 0-3"	06/03/1996	Soil	No Data	9150	4.6	No Data	No Data	No Data	No Data	3.9J	No Data
R56-96 3-6"	06/03/1996	Soil	No Data	15000	5.8	No Data	No Data	No Data	No Data	6.3	No Data
R57-96 0-3"	06/03/1996	Soil	No Data	10200	5.8	No Data	No Data	No Data	No Data	3.9J	No Data
R57-96 21-27"	06/03/1996	Soil	No Data	7500	13.6	No Data	No Data	No Data	No Data	6.4	No Data
R57-96 21-27" (Dup)	06/03/1996	Soil	No Data	7990	14.0	No Data	No Data	No Data	No Data	6.8	No Data
R58-96 0-3"	06/03/1996	Soil	No Data	10200	4.2	No Data	No Data	No Data	No Data	5.1	No Data
R59-96 0-3"	06/04/1996	Soil	No Data	15200	5.4	No Data	No Data	No Data	No Data	5.4	No Data
R60-96 0-3"	06/04/1996	Soil	No Data	14700	3.7	No Data	No Data	No Data	No Data	5.5	No Data
R61-96 0-3"	06/04/1996	Soil	No Data	16900	4.1	No Data	No Data	No Data	No Data	5.8	No Data

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.

Soil and Sediment Metals, Nitrate, and Sulfate Data[a]

Sample Location	Sample Date	Sample Type	Cu (mg/kg)	Fe (mg/kg)	Hg (mg/kg)	Mn (mg/kg)	Mo (mg/kg)	Na (mg/kg)	Ni (mg/kg)	NO_3+NO_2-N[b] (mg/kg)	Pb (mg/kg)
Down-Gradient - Lower Montezuma Creek											
HH21-96 0-3"	05/30/1996	Soil	13.0	No Data	No Data	349	0.52J	120J	No Data	9.5	11.5
HH22-96 0-3"	05/30/1996	Soil	22.1	No Data	No Data	303	0.41J	315J	No Data	9.8	34.0
HH23-96 0-3"	05/30/1996	Soil	67.5	No Data	No Data	329	1.1J	965	No Data	5.2	11.5
HH24-96 0-3"	05/30/1996	Soil	12.1	No Data	No Data	357	0.27J	93.6J	No Data	7.5	9.2
HH25-96 0-3"	05/30/1996	Soil	151	No Data	No Data	281	1.2J	802	No Data	1.2	13.9
HH26-96 0-3"	05/30/1996	Soil	7.4	No Data	No Data	316	0.18J	72.1J	No Data	0.75	7.5
R40-96 0-3"	05/31/1996	Soil	180	No Data	No Data	404	0.98J	239J	No Data	2.2N*	15.3
R41-96 0-3"	05/31/1996	Soil	13.3	No Data	No Data	355	0.47J	159J	No Data	4.2N*	10.7
R41-96 3-9"	06/03/1996	Soil	13.4	No Data	No Data	373	0.53J	103J	No Data	2.3	9.9
R42-96 0-3"	05/31/1996	Soil	90.1	No Data	No Data	309	0.78J	283J	No Data	2.8N*	16.7
R42-96 3-9"	06/03/1996	Soil	15.1	No Data	No Data	296	0.45J	146J	No Data	1.6	9.6
R43-96 0-3"	05/31/1996	Soil	239	No Data	No Data	347	0.82J	181J	No Data	1.8N*	18.9
R43-96 0-3" (Dup)	05/31/1996	Soil	233	No Data	No Data	348	1.1J	251J	No Data	1.7	17.9
R44-96 0-3"	05/31/1996	Soil	74.8	No Data	No Data	516	0.96J	367J	No Data	1.4N*	20.2
R44-96 9-15"	05/31/1996	Soil	96.8	No Data	No Data	440	0.95J	377J	No Data	0.96	23.9
R45-96 0-3"	05/31/1996	Soil	13.5	No Data	No Data	359	0.36J	117J	No Data	6.2N*	11.2
R46-96 0-3"	05/30/1996	Soil	96.4	No Data	No Data	295	1.3J	836	No Data	3.4	13.8
R47-96 0-3"	05/30/1996	Soil	9.7	No Data	No Data	311	0.33J	68.4J	No Data	28.2	8.7
R48-96 0-3"	05/30/1996	Soil	18.0	No Data	No Data	285	0.57J	550	No Data	0.98	8.3
R49-96 0-3"	05/30/1996	Soil	324	No Data	No Data	360	2.1J	998	No Data	0.97N*	14.4
R49-96 15-21"	05/31/1996	Soil	189	No Data	No Data	414	1.3J	499J	No Data	0.60	18.8
R50-96 0-3"	05/31/1996	Soil	101	No Data	No Data	374	1.5J	1830	No Data	1.3N*	12.9
R51-96 0-3"	05/30/1996	Soil	10.7	No Data	No Data	337	0.45J	114J	No Data	3.7	9.6
R51-96 21-27"	06/03/1996	Soil	13.5	No Data	No Data	375	0.43J	163J	No Data	3.8	10.1
R52-96 0-3"	05/30/1996	Soil	10.0	No Data	No Data	400	0.48J	170J	No Data	4.1N*	10.3
R53-96 0-3"	05/30/1996	Soil	57.5	No Data	No Data	353	0.47J	113J	No Data	7.4N*	11.9
R54-96 0-3"	06/03/1996	Soil	14.4	No Data	No Data	354	0.37J	91.7J	No Data	6.8	10.1
R55-96 0-3"	06/03/1996	Soil	118	No Data	No Data	374	1.9J	1330	No Data	3.0	12.3
R55-96 15-21"	06/03/1996	Soil	861	No Data	No Data	1040	3.5J	333J	No Data	0.85B	33.3
R56-96 0-3"	06/03/1996	Soil	5.8	No Data	No Data	259	0.24J	82.9J	No Data	0.89B	7.8
R56-96 3-6"	06/03/1996	Soil	12.5	No Data	No Data	427	0.53J	194J	No Data	1.7	11.7
R57-96 0-3"	06/03/1996	Soil	10.1	No Data	No Data	256	0.31J	862	No Data	0.51B	8.2
R57-96 21-27"	06/03/1996	Soil	103	No Data	No Data	254	1.2J	374J	No Data	0.27B	16.8
R57-96 21-27" (Dup)	06/03/1996	Soil	110	No Data	No Data	264	1.2J	376J	No Data	0.33B	17.6
R58-96 0-3"	06/03/1996	Soil	30.6	No Data	No Data	396	0.46J	1120	No Data	0.08B	9.1
R59-96 0-3"	06/04/1996	Soil	58.8	No Data	No Data	312	0.81J	705	No Data	0.52B	10.5
R60-96 0-3"	06/04/1996	Soil	14.0	No Data	No Data	336	0.45J	86.3J	No Data	7.0	10.5
R61-96 0-3"	06/04/1996	Soil	13.4	No Data	No Data	384	0.54J	122J	No Data	27.2	10.8

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[b]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit N -- Spiked sample recovery is not within control limits. * -- Duplicate analysis is not within control limits.

Soil and Sediment Metals, Nitrate, and Sulfate Data[a]

Sample Location	Sample Date	Sample Type	Sb (mg/kg)	Se (mg/kg)	Sn (mg/kg)	SO_4[b] (mg/kg)	Tl (mg/kg)	U (mg/kg)	V (mg/kg)	Zn (mg/kg)
Down-Gradient - Lower Montezuma Creek										
HH21-96 0-3"	05/30/1996	Soil	No Data	0.45J	No Data	9.5*	No Data	3.4	19.4	53.8
HH22-96 0-3"	05/30/1996	Soil	No Data	0.50J	No Data	106*	No Data	4.6	26.0	227
HH23-96 0-3"	05/30/1996	Soil	No Data	0.42J	No Data	3230	No Data	13.6	66.9	45.8
HH24-96 0-3"	05/30/1996	Soil	No Data	0.30U	No Data	32.9	No Data	2.8	19.6	41.0
HH25-96 0-3"	05/30/1996	Soil	No Data	1.3	No Data	2880	No Data	32.7	68.4	62.8
HH26-96 0-3"	05/30/1996	Soil	No Data	0.30U	No Data	16.3	No Data	2.8	17.8	28.3
R40-96 0-3"	05/31/1996	Soil	No Data	1.4	No Data	511	No Data	34.9	153	53.2
R41-96 0-3"	05/31/1996	Soil	No Data	0.46J	No Data	6.0	No Data	3.6	23.6	48.3
R41-96 3-9"	06/03/1996	Soil	No Data	1.7U	No Data	7.5	No Data	3.4	22.2	50.5
R42-96 0-3"	05/31/1996	Soil	No Data	1.6	No Data	13.0	No Data	66.6	298	46.3
R42-96 3-9"	06/03/1996	Soil	No Data	2.9	No Data	16.7	No Data	12.0	278	35.5
R43-96 0-3"	05/31/1996	Soil	No Data	1.3	No Data	8.3	No Data	37.0	177	53.3
R43-96 0-3" (Dup)	05/31/1996	Soil	No Data	0.95	No Data	8.3	No Data	37.5	204	57.8
R44-96 0-3"	05/31/1996	Soil	No Data	1.6	No Data	317	No Data	42.2	135	83.0
R44-96 9-15"	05/31/1996	Soil	No Data	1.3	No Data	387	No Data	70.3	509	67.0
R45-96 0-3"	05/31/1996	Soil	No Data	0.32J	No Data	9.5	No Data	3.5	18.7	47.8
R46-96 0-3"	05/30/1996	Soil	No Data	0.84	No Data	1650	No Data	31.1	148	47.7
R47-96 0-3"	05/30/1996	Soil	No Data	0.30U	No Data	89.1	No Data	3.0	12.2	40.1
R48-96 0-3"	05/30/1996	Soil	No Data	0.30U	No Data	1720	No Data	7.1	24.6	33.3
R49-96 0-3"	05/30/1996	Soil	No Data	1.3	No Data	1970	No Data	39.2	181	61.6
R49-96 15-21"	05/31/1996	Soil	No Data	1.2	No Data	392	No Data	62.7	310	54.8
R50-96 0-3"	05/31/1996	Soil	No Data	0.83	No Data	6340	No Data	37.2	88.0	49.7
R51-96 0-3"	05/30/1996	Soil	No Data	0.30U	No Data	11.2	No Data	3.2	18.6	49.0
R51-96 21-27"	06/03/1996	Soil	No Data	2.0	No Data	13.8	No Data	3.5	26.3	54.4
R52-96 0-3"	05/30/1996	Soil	No Data	0.55	No Data	10.2	No Data	2.9	24.2	45.3
R53-96 0-3"	05/30/1996	Soil	No Data	0.65	No Data	21.3	No Data	11.3	44.7	47.9
R54-96 0-3"	06/03/1996	Soil	No Data	1.4U	No Data	99.2	No Data	3.7	16.3	52.6
R55-96 0-3"	06/03/1996	Soil	No Data	3.7	No Data	2100	No Data	24.5	92.9	52.3
R55-96 15-21"	06/03/1996	Soil	No Data	3.7	No Data	286	No Data	31.8	256	68.0
R56-96 0-3"	06/03/1996	Soil	No Data	0.94U	No Data	4.1	No Data	1.9	16.5	25.2
R56-96 3-6"	06/03/1996	Soil	No Data	2.1	No Data	7.6	No Data	3.0	26.2	42.3
R57-96 0-3"	06/03/1996	Soil	No Data	1.5U	No Data	1710	No Data	11.6	17.9	25.2
R57-96 21-27"	06/03/1996	Soil	No Data	2.7	No Data	251	No Data	36.7	319	41.1
R57-96 21-27" (Dup)	06/03/1996	Soil	No Data	3.0	No Data	238	No Data	39.3	327	42.3
R58-96 0-3"	06/03/1996	Soil	No Data	1.4U	No Data	2450	No Data	7.6	25.0	34.3
R59-96 0-3"	06/04/1996	Soil	No Data	2.3	No Data	1240	No Data	17.6	65.7	40.8
R60-96 0-3"	06/04/1996	Soil	No Data	1.9U	No Data	16.1	No Data	3.3	22.1	50.6
R61-96 0-3"	06/04/1996	Soil	No Data	2.3	No Data	18.3	No Data	3.2	25.5	52.4

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit N -- Spiked sample recovery is not within control limits. * -- Duplicate analysis is not within control limits.

Soil and Sediment Metals, Nitrate, and Sulfate Data[a]

Sample Location	Sample Date	Sample Type	Ag (mg/kg)	Al (mg/kg)	As (mg/kg)	B (mg/kg)	Ba (mg/kg)	Be (mg/kg)	Cd (mg/kg)	Co (mg/kg)	Cr (mg/kg)
Down-Gradient - Lower Montezuma Creek											
R61-96 3-9"	06/04/1996	Soil	No Data	10700	5.4	No Data	No Data	No Data	No Data	5.5	No Data
R62-96 0-3"	06/04/1996	Soil	No Data	11200	9.6	No Data	No Data	No Data	No Data	7.3	No Data
R62-96 15-21"	06/04/1996	Soil	No Data	12500	12.3	No Data	No Data	No Data	No Data	6.4	No Data
R63-96 0-3"	06/04/1996	Soil	No Data	13600	4.3	No Data	No Data	No Data	No Data	5.5	No Data
R63-96 3-9"	06/04/1996	Soil	No Data	10300	4.5	No Data	No Data	No Data	No Data	5.0	No Data
R64-96 0-3"	06/04/1996	Soil	No Data	6520	5.1	No Data	No Data	No Data	No Data	5.8	No Data
R65-96 0-3"	06/04/1996	Soil	No Data	6960	1.7	No Data	No Data	No Data	No Data	3.2J	No Data
R66-96 0-3"	06/04/1996	Soil	No Data	13700	2.5	No Data	No Data	No Data	No Data	4.1J	No Data
R67-96 0-3"	06/04/1996	Soil	No Data	11700	4.5	No Data	No Data	No Data	No Data	5.9	No Data
R67-96 9-15"	06/04/1996	Soil	No Data	12200	8.0	No Data	No Data	No Data	No Data	6.5	No Data
R68-96 0-3"	06/04/1996	Soil	No Data	11300	4.7	No Data	No Data	No Data	No Data	5.7	No Data
R69-96 0-3"	06/04/1996	Soil	No Data	10900	4.1	No Data	No Data	No Data	No Data	5.2	No Data
R69-96 15-21"	06/04/1996	Soil	No Data	13700	11.9	No Data	No Data	No Data	No Data	8.2	No Data
R70-96 0-3"	06/04/1996	Soil	No Data	8970	1.8	No Data	No Data	No Data	No Data	2.9J	No Data
R70-96 9-15"	06/04/1996	Soil	No Data	6440	10.9	No Data	No Data	No Data	No Data	9.8	No Data
R71-96 0-3"	06/04/1996	Soil	No Data	8010	2.5	No Data	No Data	No Data	No Data	4.4J	No Data
R71-96 9-15"	06/04/1996	Soil	No Data	13800	10.9	No Data	No Data	No Data	No Data	8.6	No Data
R72-96 0-3"	06/04/1996	Soil	No Data	7600	2.0	No Data	No Data	No Data	No Data	3.6J	No Data
R72-96 3-9"	06/04/1996	Soil	No Data	9310	9.3	No Data	No Data	No Data	No Data	5.9	No Data
R73-96 0-3"	06/04/1996	Soil	No Data	15800	3.9	No Data	No Data	No Data	No Data	5.3	No Data
R74-96 0-3"	06/04/1996	Soil	No Data	7680	9.2	No Data	No Data	No Data	No Data	6.6	No Data
R74-96 0-3" (Dup)	06/04/1996	Soil	No Data	10400	10.0	No Data	No Data	No Data	No Data	6.8	No Data
R74-96 3-9"	06/04/1996	Soil	No Data	10900	9.0	No Data	No Data	No Data	No Data	5.2	No Data
R75-96 0-3"	06/04/1996	Soil	No Data	12100	2.7	No Data	No Data	No Data	No Data	4.6J	No Data
R75-96 3-9"	06/04/1996	Soil	No Data	16400	6.3	No Data	No Data	No Data	No Data	6.0	No Data
R76-96 0-3"	06/04/1996	Soil	No Data	8950	9.4	No Data	No Data	No Data	No Data	5.6	No Data
R76-96 9-15"	06/04/1996	Soil	No Data	12700	10.5	No Data	No Data	No Data	No Data	6.4	No Data
R77-96 0-3"	06/04/1996	Soil	No Data	14400	6.6	No Data	No Data	No Data	No Data	5.2	No Data
R78-96 0-3"	06/04/1996	Soil	No Data	13000	3.1	No Data	No Data	No Data	No Data	3.9J	No Data
R78-96 3-9"	06/04/1996	Soil	No Data	13300	4.7	No Data	No Data	No Data	No Data	4.8J	No Data
R79-96 0-3"	06/04/1996	Soil	No Data	7870	6.8	No Data	No Data	No Data	No Data	5.5	No Data
R80-96 0-3"	06/05/1996	Soil	No Data	14300	3.8	No Data	No Data	No Data	No Data	4.7J	No Data
R80-96 3-9"	06/05/1996	Soil	No Data	11900	8.9	No Data	No Data	No Data	No Data	5.0J	No Data
R81-96 0-3"	06/05/1996	Soil	No Data	9080	6.9	No Data	No Data	No Data	No Data	5.9	No Data
R82-96 0-3"	06/05/1996	Soil	No Data	9090	7.7	No Data	No Data	No Data	No Data	6.1	No Data
R83-96 0-3"	06/05/1996	Soil	No Data	10700	3.6	No Data	No Data	No Data	No Data	4.7J	No Data
R83-96 3-9"	06/05/1996	Soil	No Data	13200	3.9	No Data	No Data	No Data	No Data	5.0J	No Data
R84-96 0-3"	06/05/1996	Soil	No Data	8450	10.5	No Data	No Data	No Data	No Data	6.4	No Data

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.

Soil and Sediment Metals, Nitrate, and Sulfate Data[a]

Sample Location	Sample Date	Sample Type	Cu (mg/kg)	Fe (mg/kg)	Hg (mg/kg)	Mn (mg/kg)	Mo (mg/kg)	Na (mg/kg)	Ni (mg/kg)	NO_3+NO_2-N[b] (mg/kg)	Pb (mg/kg)
Down-Gradient - Lower Montezuma Creek											
R61-96 3-9"	06/04/1996	Soil	9.8	No Data	No Data	375	0.62J	157J	No Data	2.6	9.8
R62-96 0-3"	06/04/1996	Soil	136	No Data	No Data	355	1.1J	262J	No Data	1.4	13.4
R62-96 15-21"	06/04/1996	Soil	64.4	No Data	No Data	339	1.1J	335J	No Data	2.3	13.4
R63-96 0-3"	06/04/1996	Soil	12.2	No Data	No Data	379	0.39J	95.3J	No Data	5.7	10.2
R63-96 3-9"	06/04/1996	Soil	9.9	No Data	No Data	346	0.33J	78.7J	No Data	1.7	8.7
R64-96 0-3"	06/04/1996	Soil	96.1	No Data	No Data	314	0.37J	146J	No Data	0.55B	10.7
R65-96 0-3"	06/04/1996	Soil	6.9	No Data	No Data	259	0.10U	74.5J	No Data	0.47B	6.3
R66-96 0-3"	06/04/1996	Soil	6.6	No Data	No Data	270	0.16J	89.8J	No Data	1.0B	6.8
R67-96 0-3"	06/04/1996	Soil	36.1	No Data	No Data	339	0.42J	369J	No Data	0.10B	10.3
R67-96 9-15"	06/04/1996	Soil	55.8	No Data	No Data	380	0.46J	422J	No Data	1.6	13.3
R68-96 0-3"	06/04/1996	Soil	10.6	No Data	No Data	372	0.40J	140J	No Data	1.8	9.8
R69-96 0-3"	06/04/1996	Soil	34.4	No Data	No Data	334	0.49J	943	No Data	7.2	10.5
R69-96 15-21"	06/04/1996	Soil	91.4	No Data	No Data	326	1.0J	576	No Data	1.5	17.8
R70-96 0-3"	06/04/1996	Soil	6.2	No Data	No Data	239	0.13U	333J	No Data	0.52B	6.0
R70-96 9-15"	06/04/1996	Soil	130	No Data	No Data	384	1.1J	296J	No Data	0.69B	15.7
R71-96 0-3"	06/04/1996	Soil	17.1	No Data	No Data	313	0.20J	92.9J	No Data	1.2	8.3
R71-96 9-15"	06/04/1996	Soil	188	No Data	No Data	386	1.4J	351J	No Data	1.8	16.9
R72-96 0-3"	06/04/1996	Soil	8.6	No Data	No Data	232	0.13U	231J	No Data	0.52B	6.2
R72-96 3-9"	06/04/1996	Soil	22.4	No Data	No Data	383	0.88J	400J	No Data	0.21B	8.8
R73-96 0-3"	06/04/1996	Soil	12.0	No Data	No Data	374	0.44J	122J	No Data	2.9	10.9
R74-96 0-3"	06/04/1996	Soil	65.6	No Data	No Data	278	0.76J	469J	No Data	0.95B	16.3
R74-96 0-3" (Dup)	06/04/1996	Soil	65.6	No Data	No Data	290	0.93J	507	No Data	0.75B	16.7
R74-96 3-9"	06/04/1996	Soil	28.2	No Data	No Data	392	0.69J	319J	No Data	0.55B	9.3
R75-96 0-3"	06/04/1996	Soil	9.4	No Data	No Data	315	0.16J	91.3J	No Data	2.1	7.5
R75-96 3-9"	06/04/1996	Soil	23.8	No Data	No Data	356	0.76J	292J	No Data	2.9	11.4
R76-96 0-3"	06/04/1996	Soil	9.9	No Data	No Data	528	0.16J	166J	No Data	2.7N*	9.9
R76-96 9-15"	06/04/1996	Soil	14.4	No Data	No Data	463	0.33J	322J	No Data	1.9N*	10.9
R77-96 0-3"	06/04/1996	Soil	15.4	No Data	No Data	359	0.43J	401J	No Data	0.57BN*	10.2
R78-96 0-3"	06/04/1996	Soil	8.1	No Data	No Data	288	0.30J	157J	No Data	0.47BN*	7.2
R78-96 3-9"	06/04/1996	Soil	14.3	No Data	No Data	399	0.33J	185J	No Data	0.63BN*	8.4
R79-96 0-3"	06/04/1996	Soil	102	No Data	No Data	357	0.46J	154J	No Data	1.7N*	12.8
R80-96 0-3"	06/05/1996	Soil	10.6	No Data	No Data	338	0.18J	190J	No Data	7.6N*	7.5
R80-96 3-9"	06/05/1996	Soil	24.7	No Data	No Data	450	0.46J	237J	No Data	5.6N*	11.2
R81-96 0-3"	06/05/1996	Soil	68.5	No Data	No Data	346	0.54J	469J	No Data	0.56BN*	11.2
R82-96 0-3"	06/05/1996	Soil	102	No Data	No Data	413	1.1J	928	No Data	0.09BN*	11.3
R83-96 0-3"	06/05/1996	Soil	11.5	No Data	No Data	336	0.19J	73.2J	No Data	2.7	9.2
R83-96 3-9"	06/05/1996	Soil	10.7	No Data	No Data	371	0.19J	99.8J	No Data	1.3	8.3
R84-96 0-3"	06/05/1996	Soil	63.3	No Data	No Data	363	0.62J	278J	No Data	2.4	14.4

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[b]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit N -- Spiked sample recovery is not within control limits. * -- Duplicate analysis is not within control limits.

Soil and Sediment Metals, Nitrate, and Sulfate Data[a]

Sample Location	Sample Date	Sample Type	Sb (mg/kg)	Se (mg/kg)	Sn (mg/kg)	SO_4[b] (mg/kg)	Tl (mg/kg)	U (mg/kg)	V (mg/kg)	Zn (mg/kg)
Down-Gradient - Lower Montezuma Creek										
R61-96 3-9"	06/04/1996	Soil	No Data	1.8U	No Data	7.3	No Data	2.6	21.6	42.4
R62-96 0-3"	06/04/1996	Soil	No Data	3.0	No Data	16.5	No Data	18.6	119	53.8
R62-96 15-21"	06/04/1996	Soil	No Data	2.3	No Data	151	No Data	38.2	229	46.7
R63-96 0-3"	06/04/1996	Soil	No Data	2.0	No Data	17.6	No Data	2.9	21.1	45.5
R63-96 3-9"	06/04/1996	Soil	No Data	1.7U	No Data	8.5	No Data	2.6	15.9	34.9
R64-96 0-3"	06/04/1996	Soil	No Data	1.5	No Data	1250	No Data	15.6	52.4J	34.7
R65-96 0-3"	06/04/1996	Soil	No Data	0.74	No Data	115	No Data	2.4	11.3J	19.6
R66-96 0-3"	06/04/1996	Soil	No Data	1.6	No Data	8.2	No Data	2.4	19.6J	26.3
R67-96 0-3"	06/04/1996	Soil	No Data	1.9	No Data	553	No Data	10.6	39.3J	38.3
R67-96 9-15"	06/04/1996	Soil	No Data	1.9	No Data	442	No Data	25.9	174J	41.0
R68-96 0-3"	06/04/1996	Soil	No Data	1.6	No Data	8.9	No Data	2.7	19.9J	41.1
R69-96 0-3"	06/04/1996	Soil	No Data	1.9	No Data	1480	No Data	15.5	35.6J	43.8
R69-96 15-21"	06/04/1996	Soil	No Data	1.9	No Data	245	No Data	66.8	356J	43.9
R70-96 0-3"	06/04/1996	Soil	No Data	1.1	No Data	1190	No Data	5.8	13.0J	20.4
R70-96 9-15"	06/04/1996	Soil	No Data	1.6	No Data	221	No Data	36.0	228J	39.7
R71-96 0-3"	06/04/1996	Soil	No Data	1.3	No Data	452	No Data	4.9	19.6J	28.9
R71-96 9-15"	06/04/1996	Soil	No Data	2.3	No Data	529	No Data	30.1	175J	53.2
R72-96 0-3"	06/04/1996	Soil	No Data	1.0	No Data	716	No Data	3.2	13.2J	19.9
R72-96 3-9"	06/04/1996	Soil	No Data	1.7	No Data	336	No Data	4.6	46.8J	40.0
R73-96 0-3"	06/04/1996	Soil	No Data	1.7	No Data	5.9	No Data	3.3	25.4J	45.8
R74-96 0-3"	06/04/1996	Soil	No Data	1.5	No Data	15.2	No Data	83.4	328J	35.9
R74-96 0-3" (Dup)	06/04/1996	Soil	No Data	2.7	No Data	14.4	No Data	78.4	339J	40.2
R74-96 3-9"	06/04/1996	Soil	No Data	2.0	No Data	81.1	No Data	21.0	39.5J	40.3
R75-96 0-3"	06/04/1996	Soil	No Data	1.5	No Data	37.7	No Data	3.9	22.5J	28.7
R75-96 3-9"	06/04/1996	Soil	No Data	1.8	No Data	63.5	No Data	5.4	140J	49.4
R76-96 0-3"	06/04/1996	Soil	No Data	1.5	No Data	241	No Data	3.3	15.9	34.1
R76-96 9-15"	06/04/1996	Soil	No Data	2.1	No Data	185	No Data	8.4	52.8	36.4
R77-96 0-3"	06/04/1996	Soil	No Data	1.9	No Data	976	No Data	4.3	32.0	42.2
R78-96 0-3"	06/04/1996	Soil	No Data	1.7	No Data	496	No Data	2.8	17.5	26.8
R78-96 3-9"	06/04/1996	Soil	No Data	2.0	No Data	243	No Data	6.2	29.6	30.5
R79-96 0-3"	06/04/1996	Soil	No Data	2.9	No Data	27.5	No Data	18.3	84.9	39.8
R80-96 0-3"	06/05/1996	Soil	No Data	1.7	No Data	368	No Data	3.5	24.3	30.4
R80-96 3-9"	06/05/1996	Soil	No Data	2.0	No Data	140	No Data	4.9	43.8	42.7
R81-96 0-3"	06/05/1996	Soil	No Data	2.3	No Data	517	No Data	15.2	63.6	40.8
R82-96 0-3"	06/05/1996	Soil	No Data	3.1	No Data	1550	No Data	17.4	48.6	46.8
R83-96 0-3"	06/05/1996	Soil	No Data	1.8	No Data	11.2	No Data	2.9	14.7	37.8
R83-96 3-9"	06/05/1996	Soil	No Data	1.6	No Data	12.4	No Data	2.5	16.5	35.0
R84-96 0-3"	06/05/1996	Soil	No Data	1.8	No Data	85.3	No Data	46.3	204	39.6

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[b]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit N -- Spiked sample recovery is not within control limits. * -- Duplicate analysis is not within control limits.

Soil and Sediment Metals, Nitrate, and Sulfate Data[a]

Sample Location	Sample Date	Sample Type	Ag (mg/kg)	Al (mg/kg)	As (mg/kg)	B (mg/kg)	Ba (mg/kg)	Be (mg/kg)	Cd (mg/kg)	Co (mg/kg)	Cr (mg/kg)
Down-Gradient - Lower Montezuma Creek											
R84-96 3-9"	06/05/1996	Soil	No Data	14700	10.9	No Data	No Data	No Data	No Data	6.2	No Data
R85-96 0-3"	06/05/1996	Soil	No Data	14300	5.7	No Data	No Data	No Data	No Data	4.5J	No Data
R86-96 0-3"	06/05/1996	Soil	No Data	10500	6.8	No Data	No Data	No Data	No Data	5.7	No Data
R86-96 3-9"	06/05/1996	Soil	No Data	11400	6.2	No Data	No Data	No Data	No Data	5.3	No Data
R87-96 0-3"	06/05/1996	Soil	No Data	12200	2.6	No Data	No Data	No Data	No Data	4.3J	No Data
R87-96 0-3" (Dup)	06/05/1996	Soil	No Data	12400	3.0	No Data	No Data	No Data	No Data	4.1J	No Data
R89-96 0-3"	06/05/1996	Soil	No Data	13400	4.3	No Data	No Data	No Data	No Data	5.3	No Data
R89-96 3-9"	06/05/1996	Soil	No Data	11500	3.5	No Data	No Data	No Data	No Data	4.0J	No Data
R91-96 0-3"	06/05/1996	Soil	No Data	15500	5.5	No Data	No Data	No Data	No Data	5.3	No Data
SS94-012 0-6"	11/11/1994	Soil	0.20U	8770	11.1J	No Data	175	0.39J	0.28J	6.4J	7.0
SS94-012 6-12"	11/11/1994	Soil	0.20U	9700	11.4	No Data	209	0.45J	0.33J	7.3J	7.9
SS94-012 12-18"	11/11/1994	Soil	0.22J	9910	9.4	No Data	197	0.46J	0.49J	8.0J	8.0
SS94-012 18-24"	11/11/1994	Soil	0.94J	8550	18.4	No Data	361	0.42J	1.2	13.6	8.2
SS94-013 0-6"	11/11/1994	Soil	0.20U	9270	12.7	No Data	260	0.45J	0.45J	7.1J	8.4
SS94-013 6-12"	11/11/1994	Soil	0.29J	8190	16.5J	No Data	374	0.50J	1.2	14.1	7.9
SS94-013 12-18"	11/11/1994	Soil	0.41J	8500	29.9	No Data	352	0.53J	1.3	15.5	8.9
SS94-013 18-24"	11/11/1994	Soil	0.23J	9900	34.2	No Data	233	0.57J	0.66J	8.2J	9.8
SS94-014 0-6"	11/11/1994	Soil	0.20U	9900	4.6	No Data	144	0.48J	0.20U	5.4J	8.2
Down-Gradient - Off-Site											
18SD96-01 0-3"	05/23/1996	Sediment	No Data	12400	4.7J	No Data	No Data	No Data	No Data	4.3J	No Data
18SD96-02 0-3"	05/23/1996	Sediment	No Data	14600J	4.5	No Data	No Data	No Data	No Data	4.3J	No Data
18SD96-03 0-3"	05/23/1996	Sediment	No Data	7710J	3.0U	No Data	No Data	No Data	No Data	3.3J	No Data
18SD96-04 0-3"	05/23/1996	Sediment	No Data	17700J	4.0	No Data	No Data	No Data	No Data	4.5J	No Data
18SD96-05 0-3"	05/23/1996	Sediment	No Data	15400	5.3J	No Data	No Data	No Data	No Data	5.7	No Data
18SD96-06 0-3"	05/23/1996	Sediment	No Data	11200J	4.4	No Data	No Data	No Data	No Data	4.4J	No Data
18SD96-07 24-30"	06/05/1996	Sediment	No Data	9310	5.2	No Data	No Data	No Data	No Data	4.2J	No Data
18SS96-E 0-3"	05/23/1996	Soil	No Data	9010J	2.6	No Data	No Data	No Data	No Data	2.8J	No Data
18SS96-E 3-24"	05/23/1996	Soil	No Data	9600J	2.7	No Data	No Data	No Data	No Data	2.7J	No Data
18SS96-W 0-3"	05/23/1996	Soil	No Data	10600J	2.8	No Data	No Data	No Data	No Data	3.5J	No Data
18SS96-W 3-24"	05/23/1996	Soil	No Data	11500J	3.4	No Data	No Data	No Data	No Data	3.5J	No Data
19SD96-01 0-3"	05/21/1996	Sediment	No Data	15700	6.4J	No Data	No Data	No Data	No Data	4.8J	No Data
19SS96-E 0-3"	05/21/1996	Soil	No Data	15400	3.8	No Data	No Data	No Data	No Data	3.2J	No Data
19SS96-E 3-24"	05/21/1996	Soil	No Data	8890J	4.1J	No Data	No Data	No Data	No Data	2.3J	No Data
19SS96-W 0-3"	05/21/1996	Soil	No Data	7070	3.5	No Data	No Data	No Data	No Data	2.4J	No Data
19SS96-W 3-24"	05/21/1996	Soil	No Data	15000	4.6	No Data	No Data	No Data	No Data	3.6J	No Data
20SD96-01 0-3"	05/23/1996	Sediment	No Data	14300	6.3J	No Data	No Data	No Data	No Data	4.9J	No Data
20SS96-E 0-3"	05/23/1996	Soil	No Data	13200J	5.0	No Data	No Data	No Data	No Data	3.6J	No Data
20SS96-E 3-24"	05/23/1996	Soil	No Data	13000J	5.5	No Data	No Data	No Data	No Data	4.0J	No Data

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.

Soil and Sediment Metals, Nitrate, and Sulfate Data[a]

Sample Location	Sample Date	Sample Type	Cu (mg/kg)	Fe (mg/kg)	Hg (mg/kg)	Mn (mg/kg)	Mo (mg/kg)	Na (mg/kg)	Ni (mg/kg)	NO_3+NO_2-N[b] (mg/kg)	Pb (mg/kg)
Down-Gradient - Lower Montezuma Creek											
R84-96 3-9"	06/05/1996	Soil	39.6	No Data	No Data	384	0.89J	528	No Data	1.3	13.1
R85-96 0-3"	06/05/1996	Soil	10.5	No Data	No Data	330	0.23J	117J	No Data	5.6	9.8
R86-96 0-3"	06/05/1996	Soil	55.8	No Data	No Data	382	0.34J	145J	No Data	2.5	10.9
R86-96 3-9"	06/05/1996	Soil	28.8	No Data	No Data	354	0.36J	313J	No Data	1.4	11.6
R87-96 0-3"	06/05/1996	Soil	11.2	No Data	No Data	312	0.16J	448J	No Data	0.14B	7.2
R87-96 0-3" (Dup)	06/05/1996	Soil	8.0	No Data	No Data	290	0.16J	437J	No Data	0.14B	7.0
R89-96 0-3"	06/05/1996	Soil	12.4	No Data	No Data	479	0.20J	827	No Data	0.74B	9.1
R89-96 3-9"	06/05/1996	Soil	10.9	No Data	No Data	288	0.44J	209J	No Data	0.17B	7.5
R91-96 0-3"	06/05/1996	Soil	15.0	No Data	No Data	407	0.45J	102J	No Data	10.2	12.3
SS94-012 0-6"	11/11/1994	Soil	92.0	15000	0.02U	392	2.0J	No Data	11.0	No Data	12.4
SS94-012 6-12"	11/11/1994	Soil	180	15500	0.02U	422	1.9J	No Data	10.9	No Data	13.4
SS94-012 12-18"	11/11/1994	Soil	168	12300	0.02U	360	2.0J	No Data	11.7	No Data	14.8
SS94-012 18-24"	11/11/1994	Soil	623	11400	0.02U	439	2.9J	No Data	11.2	No Data	29.6
SS94-013 0-6"	11/11/1994	Soil	193	12000	0.02U	366	2.8J	No Data	9.9	No Data	14.9
SS94-013 6-12"	11/11/1994	Soil	698	10900	0.02J	508	4.3J	No Data	11.2	No Data	29.3
SS94-013 12-18"	11/11/1994	Soil	634	13400	0.03J	418	9.7J	No Data	13.6	No Data	32.1
SS94-013 18-24"	11/11/1994	Soil	218	14800	0.02J	246	11.1	No Data	11.7	No Data	20.3
SS94-014 0-6"	11/11/1994	Soil	14.1	11500	0.02U	490	0.93J	No Data	9.2	No Data	8.5
Down-Gradient - Off-Site											
18SD96-01 0-3"	05/23/1996	Sediment	9.2	No Data	No Data	408	0.20J	312J	No Data	0.73*	10.4
18SD96-02 0-3"	05/23/1996	Sediment	9.9	No Data	No Data	342	0.22J	276J	No Data	0.87*	11.5
18SD96-03 0-3"	05/23/1996	Sediment	7.4	No Data	No Data	351	0.16J	270J	No Data	0.65*	8.4
18SD96-04 0-3"	05/23/1996	Sediment	11.3	No Data	No Data	444	0.29J	315J	No Data	0.75*	22.4
18SD96-05 0-3"	05/23/1996	Sediment	12.9	No Data	No Data	486	0.34J	328J	No Data	1.1*	16.9
18SD96-06 0-3"	05/23/1996	Sediment	11.3	No Data	No Data	430	0.27J	327J	No Data	No Data	12.5
18SD96-07 24-30"	06/05/1996	Sediment	43.5	No Data	No Data	272	0.38J	248J	No Data	0.21B	13.7
18SS96-E 0-3"	05/23/1996	Soil	10.8	No Data	No Data	291	0.15J	78.3J	No Data	2.9*	6.9J
18SS96-E 3-24"	05/23/1996	Soil	9.1	No Data	No Data	316	0.14J	91.5J	No Data	2.0*	6.9J
18SS96-W 0-3"	05/23/1996	Soil	10.0	No Data	No Data	284	0.22J	149J	No Data	35.0*	7.1J
18SS96-W 3-24"	05/23/1996	Soil	16.9	No Data	No Data	308	0.24J	128J	No Data	3.6*	7.1J
19SD96-01 0-3"	05/21/1996	Sediment	12.0	No Data	No Data	372	0.65J	319J	No Data	0.94*	14.1
19SS96-E 0-3"	05/21/1996	Soil	5.7	No Data	No Data	332	0.25U	295J	No Data	1.9*	6.7
19SS96-E 3-24"	05/21/1996	Soil	5.6J	No Data	No Data	295J	0.28J	217J	No Data	1.7*	6.4J
19SS96-W 0-3"	05/21/1996	Soil	8.0	No Data	No Data	326	0.32U	125J	No Data	1.9*	7.0
19SS96-W 3-24"	05/21/1996	Soil	6.5	No Data	No Data	325	0.72J	210J	No Data	2.0*	8.2
20SD96-01 0-3"	05/23/1996	Sediment	11.0	No Data	No Data	269	0.16J	345J	No Data	0.48*	20.9
20SS96-E 0-3"	05/23/1996	Soil	19.9	No Data	No Data	311	0.24J	214J	No Data	3.7*	9.2J
20SS96-E 3-24"	05/23/1996	Soil	33.0	No Data	No Data	306	0.39J	282J	No Data	2.0*	9.5J

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[b]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit N -- Spiked sample recovery is not within control limits. * -- Duplicate analysis is not within control limits.

Soil and Sediment Metals, Nitrate, and Sulfate Data[a]

Sample Location	Sample Date	Sample Type	Sb (mg/kg)	Se (mg/kg)	Sn (mg/kg)	SO_4[b] (mg/kg)	Tl (mg/kg)	U (mg/kg)	V (mg/kg)	Zn (mg/kg)
Down-Gradient - Lower Montezuma Creek										
R84-96 3-9"	06/05/1996	Soil	No Data	2.6	No Data	545	No Data	26.8	150	41.2
R85-96 0-3"	06/05/1996	Soil	No Data	1.8	No Data	9.0	No Data	3.0	22.8	33.9
R86-96 0-3"	06/05/1996	Soil	No Data	1.8	No Data	23.9	No Data	12.6	70.9	36.3
R86-96 3-9"	06/05/1996	Soil	No Data	1.5	No Data	1290	No Data	10.7	55.6	32.7
R87-96 0-3"	06/05/1996	Soil	No Data	1.5	No Data	2610	No Data	4.3	18.9	28.7
R87-96 0-3" (Dup)	06/05/1996	Soil	No Data	1.2	No Data	2440	No Data	3.9	18.2	27.7
R89-96 0-3"	06/05/1996	Soil	No Data	2.0	No Data	2660	No Data	5.9	22.8	35.3
R89-96 3-9"	06/05/1996	Soil	No Data	1.5	No Data	641	No Data	4.7	22.4	29.0
R91-96 0-3"	06/05/1996	Soil	No Data	2.8	No Data	8.5	No Data	3.2	23.1	60.5
SS94-012 0-6"	11/11/1994	Soil	0.20UJ	0.95J	2.6	No Data	0.20U	18.9	89.6	56.0
SS94-012 6-12"	11/11/1994	Soil	0.20UJ	1.0	2.6	No Data	0.20U	20.9	131	53.8
SS94-012 12-18"	11/11/1994	Soil	0.20UJ	1.1	2.6	No Data	0.20U	22.2	144	53.2
SS94-012 18-24"	11/11/1994	Soil	0.20UJ	3.9J	2.5	No Data	0.20U	45.3	343	77.2
SS94-013 0-6"	11/11/1994	Soil	0.20UJ	1.6	2.5	No Data	0.20U	26.5	91.9	56.3
SS94-013 6-12"	11/11/1994	Soil	0.20UJ	4.4	2.3	No Data	0.20U	25.7	219	72.2
SS94-013 12-18"	11/11/1994	Soil	0.20UJ	10.3	2.5	No Data	0.20U	66.6	392	80.4
SS94-013 18-24"	11/11/1994	Soil	0.20UJ	15.8	2.7	No Data	0.20U	73.2	357	60.0
SS94-014 0-6"	11/11/1994	Soil	0.20UJ	0.60UJ	2.4	No Data	0.20U	8.5	37.3	33.6
Down-Gradient - Off-Site										
18SD96-01 0-3"	05/23/1996	Sediment	No Data	1.8U	No Data	591*	No Data	4.9	14.9	30.1
18SD96-02 0-3"	05/23/1996	Sediment	No Data	2.3	No Data	544*	No Data	5.8	17.4	33.0
18SD96-03 0-3"	05/23/1996	Sediment	No Data	1.4	No Data	538*	No Data	4.8	11.5	22.9
18SD96-04 0-3"	05/23/1996	Sediment	No Data	2.5	No Data	607*	No Data	5.5	22.7	35.5
18SD96-05 0-3"	05/23/1996	Sediment	No Data	1.3U	No Data	910*	No Data	6.0	19.3	38.7
18SD96-06 0-3"	05/23/1996	Sediment	No Data	1.9	No Data	No Data	No Data	5.3	15.8	30.3
18SD96-07 24-30"	06/05/1996	Sediment	No Data	1.1	No Data	168	No Data	4.5	13.5	43.7
18SS96-E 0-3"	05/23/1996	Soil	No Data	1.7	No Data	14.6*	No Data	2.7	14.3J	21.2
18SS96-E 3-24"	05/23/1996	Soil	No Data	1.1	No Data	22.4*	No Data	2.5	13.4J	20.3
18SS96-W 0-3"	05/23/1996	Soil	No Data	1.2	No Data	137*	No Data	3.1	17.0J	27.1
18SS96-W 3-24"	05/23/1996	Soil	No Data	1.2	No Data	56.1*	No Data	2.9	20.4J	24.9
19SD96-01 0-3"	05/21/1996	Sediment	No Data	2.4	No Data	113*	No Data	4.9	21.4	41.1
19SS96-E 0-3"	05/21/1996	Soil	No Data	1.2	No Data	644*	No Data	2.9	20.2	25.2
19SS96-E 3-24"	05/21/1996	Soil	No Data	1.7J	No Data	179*	No Data	2.6	12.8	22.3J
19SS96-W 0-3"	05/21/1996	Soil	No Data	0.68	No Data	49.5*	No Data	2.6	10.7	20.0
19SS96-W 3-24"	05/21/1996	Soil	No Data	1.4	No Data	31.2*	No Data	4.2	23.2	29.2
20SD96-01 0-3"	05/23/1996	Sediment	No Data	2.4	No Data	531*	No Data	4.5	18.1	36.6
20SS96-E 0-3"	05/23/1996	Soil	No Data	1.4	No Data	249*	No Data	4.5	23.5J	27.7
20SS96-E 3-24"	05/23/1996	Soil	No Data	2.1	No Data	625*	No Data	7.2	39.5J	29.3

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[b]

Soil and Sediment Metals, Nitrate, and Sulfate Data[a]

Sample Location	Sample Date	Sample Type	Ag (mg/kg)	Al (mg/kg)	As (mg/kg)	B (mg/kg)	Ba (mg/kg)	Be (mg/kg)	Cd (mg/kg)	Co (mg/kg)	Cr (mg/kg)
Down-Gradient - Off-Site											
20SS96-W 0-3"	05/23/1996	Soil	No Data	8400J	4.3	No Data	No Data	No Data	No Data	3.3J	No Data
20SS96-W 0-3" (Dup)	05/23/1996	Soil	No Data	9860J	4.4	No Data	No Data	No Data	No Data	3.5J	No Data
20SS96-W 3-24"	05/23/1996	Soil	No Data	10700J	4.2	No Data	No Data	No Data	No Data	3.3J	No Data

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Soil and Sediment Metals, Nitrate, and Sulfate Data[a]

Sample Location	Sample Date	Sample Type	Cu (mg/kg)	Fe (mg/kg)	Hg (mg/kg)	Mn (mg/kg)	Mo (mg/kg)	Na (mg/kg)	Ni (mg/kg)	NO_3+NO_2-N[b] (mg/kg)	Pb (mg/kg)
Down-Gradient - Off-Site											
20SS96-W 0-3"	05/23/1996	Soil	8.7	No Data	No Data	350	0.19J	988J	No Data	2.2*	9.7J
20SS96-W 0-3" (Dup)	05/23/1996	Soil	8.6	No Data	No Data	364	0.18J	1040J	No Data	1.5*	10.3J
20SS96-W 3-24"	05/23/1996	Soil	8.8	No Data	No Data	317	0.26J	427J	No Data	1.1*	8.5J

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[b]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit N -- Spiked sample recovery is not within control limits. * -- Duplicate analysis is not within control limits.

Soil and Sediment Metals, Nitrate, and Sulfate Data[a]

Sample Location	Sample Date	Sample Type	Sb (mg/kg)	Se (mg/kg)	Sn (mg/kg)	SO_4[b] (mg/kg)	Tl (mg/kg)	U (mg/kg)	V (mg/kg)	Zn (mg/kg)
Down-Gradient - Off-Site										
20SS96-W 0-3"	05/23/1996	Soil	No Data	2.0	No Data	813*	No Data	3.8	12.0J	26.8
20SS96-W 0-3" (Dup)	05/23/1996	Soil	No Data	2.0	No Data	430*	No Data	3.7	13.0J	27.8
20SS96-W 3-24"	05/23/1996	Soil	No Data	1.7	No Data	563*	No Data	4.6	14.7J	26.7

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]Unvalidated data. Definition of lab qualifiers: B -- The reported value was obtained from a reading that was less than the Required Detection Limit (RDL) but greater than or equal to the actual Detection Limit N -- Spiked sample recovery is not within control limits. * -- Duplicate analysis is not within control limits.

Soil and Sediment Radiological Data[a]

Sample Location	Sample Date	Sample Type	K40 (pCi/g)	Pb210 (pCi/g)	Po210 (pCi/g)	Ra226 (pCi/g)	Th230 (pCi/g)	Th232 (pCi/g)	U (mg/kg)	U234 (pCi/g)	U235 (pCi/g)
Reference - Supplemental Standards											
NR95PB-01 0-8"	12/12/1995	Soil	No Data	No Data	No Data	2.9	3.2	1.1	8.2	No Data	No Data
NR95PB-01 0"	12/12/1995	Soil	No Data	No Data	No Data	6.2	6.4	1.1	16.3	No Data	No Data
NR95PB-02 0-7"	12/12/1995	Soil	No Data	No Data	No Data	2.8	3.0	0.43U	6.6	No Data	No Data
NR95PB-02 0"	12/12/1995	Soil	No Data	No Data	No Data	5.1	5.3	1.7	10.4	No Data	No Data
NR95PB-03 0-8"	12/12/1995	Soil	No Data	No Data	No Data	3.4	3.6	1.3	6.8	No Data	No Data
NR95PB-03 0"	12/12/1995	Soil	No Data	No Data	No Data	2.8	3.9	1.4	6.6	No Data	No Data
NR95PB-04 0-6"	12/20/1995	Soil	No Data	No Data	No Data	2.2	2.8	0.34U	5.7	No Data	No Data
NR95PB-04 0"	12/20/1995	Soil	No Data	No Data	No Data	2.1	2.2	1.4	5.0	No Data	No Data
NR95PB-05 0-2"	12/19/1995	Soil	No Data	No Data	No Data	1.8	1.7	1.4	4.0	No Data	No Data
NR95PB-05 0"	12/19/1995	Soil	No Data	No Data	No Data	2.5	1.5	0.56U	4.2	No Data	No Data
NR95PB-06 0-2"	12/19/1995	Soil	No Data	No Data	No Data	1.6	1.6	1.3	4.4	No Data	No Data
NR95PB-06 0"	12/19/1995	Soil	No Data	No Data	No Data	1.8	1.5	0.86	4.3	No Data	No Data
NR95PB-104 0-6"	12/20/1995	Soil	No Data	No Data	No Data	2.5	2.6	1.4	5.4	No Data	No Data
NR95PB-104 0"	12/20/1995	Soil	No Data	No Data	No Data	2.2	2.3	1.4	5.0	No Data	No Data
Reference - Vega											
13SD95-01 0-3"	08/29/1995	Sediment	19.7	2U	1.6	1.8	1.5	2.2	No Data	1.6	0.20U
13SD95-01 0-3" (Dup)	08/29/1995	Sediment	16.8	2U	1.5	1.8	1.3	2.2	No Data	1.0	0.20U
Reference - Verdure											
10SD95-01 0-3"	08/24/1995	Sediment	9.7	2U	1.9	3.0	0.15U	2.1	No Data	1.3	0.20U
10SS95-01 0-3"	07/26/1995	Soil	27.4	2U	1.5	1.6	1.3	0.35U	No Data	0.96	0.20U
10SS95-01 3-24"	07/26/1995	Soil	24.3	2U	1.2	1.7	1.1	1.9	No Data	0.88	0.20U
10SS95-02 0-3"	07/26/1995	Soil	27.3	2U	1.9	1.5	1.1	5.7	No Data	0.93	0.20U
10SS95-02 3-24"	07/26/1995	Soil	23.9	2U	1.1	2.1	1.1	1.3	No Data	0.90	0.20U
10SS95-02 3-24" (Dup)	07/27/1995	Soil	25.8	2U	1.3	1.8	1.1	0.79U	No Data	0.95	0.20U
11SD95-01 0-3"	08/24/1995	Sediment	14.8	2U	1.6	2.9	0.15U	2.4	No Data	1.3	0.20U
11SS95-01 0-3"	07/31/1995	Soil	25.0	2.4	1.3	1.7	0.81	2.1	No Data	0.89	0.20U
11SS95-01 3-24"	07/31/1995	Soil	23.7	2U	0.93	1.6	0.98	2.0	No Data	0.97	0.20U
11SS95-02 0-3"	07/27/1995	Soil	29.9	2U	1.5	1.7	1.2	0.50U	No Data	0.89	0.20U
11SS95-02 3-24"	07/27/1995	Soil	29.7	2U	0.90	1.8	1.2	1.9	No Data	0.74	0.20U
12SD95-01 0-3"	08/24/1995	Sediment	17.5	2U	1.5	2.4	0.15U	2.5	No Data	0.07U	0.20U
12SS95-01 0-3"	07/31/1995	Soil	23.2	2U	1.4	2.0	0.91	2.0	No Data	0.77	0.20U
12SS95-01 3-24"	07/31/1995	Soil	27.0	2U	0.83	1.7	0.91	1.9	No Data	0.76	0.20U
12SS95-02 0-3"	08/01/1995	Soil	25.0	2U	1.7	1.7	1.2	2.5	No Data	0.80	0.20U
12SS95-02 3-24"	08/01/1995	Soil	27.6	2U	0.78	1.9	1.1	2.2	No Data	0.81	0.20U
12SS95-02 3-24" (Dup)	08/01/1995	Soil	27.2	2U	0.85	2.1	1.1	2.3	No Data	0.91	0.20U
14SD96-01 0-3"	05/20/1996	Sediment	26.8	2.9	No Data	1.4	1.7	2.1	3.7	1.2	0.10U
14SD96-02 0-3"	05/20/1996	Sediment	25.3	3.1	No Data	1.3	1.6	2.2	3.8	1.4	0.07U
14SD96-03 0-3"	05/20/1996	Sediment	25.6	2.9	No Data	1.7	2.1	2.2	4.2	1.4	0.09U

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Soil and Sediment Radiological Data[a]

Sample Location	Sample Date	Sample Type	U238 (pCi/g)
Reference - Supplemental Standards			
NR95PB-01 0-8"	12/12/1995	Soil	No Data
NR95PB-01 0"	12/12/1995	Soil	No Data
NR95PB-02 0-7"	12/12/1995	Soil	No Data
NR95PB-02 0"	12/12/1995	Soil	No Data
NR95PB-03 0-8"	12/12/1995	Soil	No Data
NR95PB-03 0"	12/12/1995	Soil	No Data
NR95PB-04 0-6"	12/20/1995	Soil	No Data
NR95PB-04 0"	12/20/1995	Soil	No Data
NR95PB-05 0-2"	12/19/1995	Soil	No Data
NR95PB-05 0"	12/19/1995	Soil	No Data
NR95PB-06 0-2"	12/19/1995	Soil	No Data
NR95PB-06 0"	12/19/1995	Soil	No Data
NR95PB-104 0-6"	12/20/1995	Soil	No Data
NR95PB-104 0"	12/20/1995	Soil	No Data
Reference - Vega			
13SD95-01 0-3"	08/29/1995	Sediment	1.2J
13SD95-01 0-3" (Dup)	08/29/1995	Sediment	1.1J
Reference - Verdure			
10SD95-01 0-3"	08/24/1995	Sediment	1.4J
10SS95-01 0-3"	07/26/1995	Soil	1.1
10SS95-01 3-24"	07/26/1995	Soil	0.97J
10SS95-02 0-3"	07/26/1995	Soil	0.97J
10SS95-02 3-24"	07/26/1995	Soil	1.0
10SS95-02 3-24" (Dup)	07/27/1995	Soil	1.1
11SD95-01 0-3"	08/24/1995	Sediment	1.4J
11SS95-01 0-3"	07/31/1995	Soil	0.85J
11SS95-01 3-24"	07/31/1995	Soil	0.90J
11SS95-02 0-3"	07/27/1995	Soil	0.94J
11SS95-02 3-24"	07/27/1995	Soil	0.94J
12SD95-01 0-3"	08/24/1995	Sediment	1.3J
12SS95-01 0-3"	07/31/1995	Soil	0.83J
12SS95-01 3-24"	07/31/1995	Soil	0.86J
12SS95-02 0-3"	08/01/1995	Soil	0.97J
12SS95-02 3-24"	08/01/1995	Soil	0.92J
12SS95-02 3-24" (Dup)	08/01/1995	Soil	0.95J
14SD96-01 0-3"	05/20/1996	Sediment	1.1
14SD96-02 0-3"	05/20/1996	Sediment	1.2
14SD96-03 0-3"	05/20/1996	Sediment	1.5

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Soil and Sediment Radiological Data[a]

Sample Location	Sample Date	Sample Type	K40 (pCi/g)	Pb210 (pCi/g)	Po210 (pCi/g)	Ra226 (pCi/g)	Th230 (pCi/g)	Th232 (pCi/g)	U (mg/kg)	U234 (pCi/g)	U235 (pCi/g)
Reference - Verdure											
14SD96-04 0-3"	05/20/1996	Sediment	26.9	2.7	No Data	1.3	1.4	1.8	4.1	1.3	0.14U
14SD96-05 0-3"	05/20/1996	Sediment	25.9	2.4	No Data	1.3	1.9	1.5	3.8	1.3	0.09U
14SD96-06 36-42"	06/05/1996	Sediment	18.5	1.9	No Data	1.7	1.5	1.8	3.7	1.2	0.07
14SS96-N 0-3"	05/20/1996	Soil	14.3	1.7U	No Data	1.1	1.3	1.4	2.5	0.81	0.13U
14SS96-N 3-24"	05/20/1996	Soil	16.8	1.7U	No Data	1.0	1.2	1.5	2.4	0.89	0.09U
14SS96-S 0-3"	05/20/1996	Soil	20.6	1.6U	No Data	1.2	1.6	2.3	2.7	1.0	0.12U
14SS96-S 3-24"	05/20/1996	Soil	21.9	1.7U	No Data	1.7	1.2	2.2	2.7	0.78	0.18U
15SD96-01 0-3"	05/20/1996	Sediment	26.0	3.1	No Data	2.5	1.6	3.2	3.9	1.5	0.08U
15SS96-N 0-3"	05/20/1996	Soil	21.0	1.6U	No Data	1.4	1.1	1.5	2.7	0.86	0.12U
15SS96-N 3-24"	05/20/1996	Soil	21.0	1.6U	No Data	2.0	1.4	2.2	3.2	0.97	0.10U
15SS96-S 0-3"	05/20/1996	Soil	22.4	1.6U	No Data	1.3	1.4	1.6	2.8	0.86	0.13U
15SS96-S 3-24"	05/20/1996	Soil	23.4	1.7U	No Data	1.3	1.7	1.9	2.7	0.95	0.09U
16SD96-01 0-3"	05/21/1996	Sediment	26.2	1.9	No Data	1.9	1.7	2.7	4.1	1.0	0.10U
16SS96-N 0-3"	05/21/1996	Soil	19.3	1.6U	No Data	1.1	1.1	1.8	2.6	1.0	0.10U
16SS96-N 3-24"	05/21/1996	Soil	17.0	1.7U	No Data	1.3	1.7	1.3	2.9	0.93	0.09U
16SS96-S 0-3"	05/21/1996	Soil	16.3	1.7U	No Data	1.1	1.1	1.7	2.7	0.77	0.08U
16SS96-S 3-24"	05/21/1996	Soil	20.8	1.6U	No Data	1.0	1.3	1.5	2.6	0.95	0.10U
17SD96-01 0-3"	05/21/1996	Sediment	24.0	2.5	No Data	1.6	1.8	1.2	3.4	1.1	0.07U
17SS96-N 0-3"	05/21/1996	Soil	15.8	1.6U	No Data	0.90	0.96	0.92	2.1	0.72	0.11U
17SS96-N 3-24"	05/21/1996	Soil	16.8	1.5U	No Data	1.4	1.4	1.8	2.6	0.77	0.08U
17SS96-S 0-3"	05/21/1996	Soil	18.8	1.6U	No Data	0.61	0.99	1.5	1.8	0.82	0.11U
17SS96-S 0-3" (Dup)	05/21/1996	Soil	18.0	1.7U	No Data	.47U	1.1	1.7	2.4	0.71	0.09U
17SS96-S 3-24"	05/21/1996	Soil	19.4	1.6U	No Data	1.3	1.1	1.3	2.3	0.52	0.09U
Down-Gradient - Upper Montezuma Creek											
01SD95-01 0-3"	08/25/1995	Sediment	16.8	2.4	4.6	5.5	4.5	2.3	No Data	2.6	0.20U
01SS95-01 0-3"	07/17/1995	Soil	19.4	8.5	9.1	14.5	14.7	2.1	No Data	4.4	0.20U
01SS95-01 3-24"	07/17/1995	Soil	18.2	8.1	11.5	16.6	17.6	0.33U	No Data	5.5	0.20U
01SS95-02 0-3"	07/18/1995	Soil	17.7	2U	3.9	4.8	4.6	1.8	No Data	2.1	0.20U
01SS95-02 3-24"	07/18/1995	Soil	17.3	2U	3.8	5.4	4.9	1.4	No Data	2.5	0.20U
02SD95-01 0-3"	08/25/1995	Sediment	12.1	5.3	6.4	9.2	8.7	3.2	No Data	4.7	0.20J
02SS95-01 0-3"	07/17/1995	Soil	18.6	7.8	10.7	16.2	16.6	2.1	No Data	5.8	0.20U
02SS95-01 3-24"	07/17/1995	Soil	2.1U	2U	2.1	2.6	2.5	1.8	No Data	2.7	0.20U
02SS95-02 0-3"	07/17/1995	Soil	17.4	2U	2.1	2.6	2.4	1.6	No Data	1.4	0.20U
02SS95-02 3-24"	07/17/1995	Soil	18.7	2U	1.7	2.4	2.3	1.9	No Data	1.4	0.20U
03SD95-01 0-3"	08/25/1995	Sediment	13.4	3.9	5.2	7.3	6.3	0.71U	No Data	5.6	0.21J
03SS95-01 0-3"	07/18/1995	Soil	18.2	69.9	66.7	115	125	1.1U	No Data	31.1	1.4J
03SS95-01 3-24"	07/18/1995	Soil	20.6	41.9	44.0	75.3	77.7	0.64U	No Data	20.0	0.86J
03SS95-01 3-24" (Dup)	07/18/1995	Soil	21.2	42.6	42.7	73.0	81.2	0.51U	No Data	19.1	0.86J

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Soil and Sediment Radiological Data[a]

Sample Location	Sample Date	Sample Type	U238 (pCi/g)
Reference - Verdure			
14SD96-04 0-3"	05/20/1996	Sediment	1.3
14SD96-05 0-3"	05/20/1996	Sediment	1.4
14SD96-06 36-42"	06/05/1996	Sediment	1.3
14SS96-N 0-3"	05/20/1996	Soil	0.88
14SS96-N 3-24"	05/20/1996	Soil	0.84
14SS96-S 0-3"	05/20/1996	Soil	0.94
14SS96-S 3-24"	05/20/1996	Soil	1.1
15SD96-01 0-3"	05/20/1996	Sediment	1.5
15SS96-N 0-3"	05/20/1996	Soil	0.79
15SS96-N 3-24"	05/20/1996	Soil	0.98
15SS96-S 0-3"	05/20/1996	Soil	1.1
15SS96-S 3-24"	05/20/1996	Soil	0.73
16SD96-01 0-3"	05/21/1996	Sediment	1.4
16SS96-N 0-3"	05/21/1996	Soil	0.92
16SS96-N 3-24"	05/21/1996	Soil	0.89
16SS96-S 0-3"	05/21/1996	Soil	0.85
16SS96-S 3-24"	05/21/1996	Soil	0.74
17SD96-01 0-3"	05/21/1996	Sediment	1.1
17SS96-N 0-3"	05/21/1996	Soil	0.80
17SS96-N 3-24"	05/21/1996	Soil	0.82
17SS96-S 0-3"	05/21/1996	Soil	0.91
17SS96-S 0-3" (Dup)	05/21/1996	Soil	0.65
17SS96-S 3-24"	05/21/1996	Soil	0.71
Down-Gradient - Upper Montezuma Creek			
01SD95-01 0-3"	08/25/1995	Sediment	3.1
01SS95-01 0-3"	07/17/1995	Soil	4.6
01SS95-01 3-24"	07/17/1995	Soil	5.7
01SS95-02 0-3"	07/18/1995	Soil	2.3
01SS95-02 3-24"	07/18/1995	Soil	2.7
02SD95-01 0-3"	08/25/1995	Sediment	5.5
02SS95-01 0-3"	07/17/1995	Soil	6.2
02SS95-01 3-24"	07/17/1995	Soil	3.0
02SS95-02 0-3"	07/17/1995	Soil	1.6J
02SS95-02 3-24"	07/17/1995	Soil	1.6J
03SD95-01 0-3"	08/25/1995	Sediment	6.1
03SS95-01 0-3"	07/18/1995	Soil	33.3
03SS95-01 3-24"	07/18/1995	Soil	20.6
03SS95-01 3-24" (Dup)	07/18/1995	Soil	20.8

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Soil and Sediment Radiological Data[a]

Sample Location	Sample Date	Sample Type	K40 (pCi/g)	Pb210 (pCi/g)	Po210 (pCi/g)	Ra226 (pCi/g)	Th230 (pCi/g)	Th232 (pCi/g)	U (mg/kg)	U234 (pCi/g)	U235 (pCi/g)
Down-Gradient - Upper Montezuma Creek											
03SS95-02 0-3"	07/18/1995	Soil	19.0	4.3	6.9	7.7	7.4	1.7	No Data	3.4	0.20U
03SS95-02 3-24"	07/18/1995	Soil	19.5	2U	2.2	3.2	2.6	0.19U	No Data	1.8	0.20U
04SD95-01 0-3"	08/28/1995	Sediment	14.3	8.2	9.7	11.9	15.8	2.5	No Data	6.2	0.22J
04SS95-01 0-3"	07/19/1995	Soil	16.2	17.5	21.4	30.8	35.1	0.42U	No Data	7.3	0.23J
04SS95-01 3-24"	07/19/1995	Soil	15.9	12.3	16.2	24.5	29.4	0.39U	No Data	7.2	0.22J
04SS95-02 0-3"	07/19/1995	Soil	17.3	4.6	6.8	8.4	9.1	1.8	No Data	2.7	0.20U
04SS95-02 3-24"	07/19/1995	Soil	18.3	2U	2.6	2.7	3.5	1.4	No Data	1.8	0.20U
05SS95-01 0-3"	07/19/1995	Soil	16.9	15.7	18.9	27.9	26.9	0.71U	No Data	9.2	0.30J
05SS95-01 3-24"	07/19/1995	Soil	16.7	73.5	90.1	99.7	118	1.0U	No Data	19.0	0.74J
05SS95-01 3-24" (Dup)	07/19/1995	Soil	13.7	78.4	83.0	107	115	0.98U	No Data	18.9	0.76J
05SS95-02 0-3"	07/19/1995	Soil	16.1	2U	2.2	2.3	2.6	1.3	No Data	1.6	0.20U
05SS95-02 3-24"	07/19/1995	Soil	17.1	2U	1.2	1.2	1.1	0.37U	No Data	0.99	0.20U
21SD96-01 0-3"	05/22/1996	Sediment	25.9	5.7	No Data	4.5	6.7	1.8	16.6	5.6	0.36
21SD96-01 0-3" (Dup)	05/22/1996	Sediment	26.7	5.0	No Data	3.9	6.0	1.5	16.4	5.3	0.07U
21SD96-02 0-3"	05/22/1996	Sediment	28.6	7.2	No Data	8.0	9.7	2.6	23.5	8.2	0.38
21SS96-N 0-3"	05/22/1996	Soil	21.1	2.6	No Data	1.3	1.8U	1.2	3.7	0.99	0.07U
21SS96-N 3-24"	05/22/1996	Soil	21.4	3.7	No Data	3.0	3.3U	1.6	5.4	1.7	0.09U
21SS96-S 0-3"	05/22/1996	Soil	18.8	4.5	No Data	3.3	4.0	2.2	7.0	2.3	0.15U
21SS96-S 3-24"	05/22/1996	Soil	20.2	8.7	No Data	7.7	7.4	2.2	9.6	3.4	0.09U
22SD96-01 0-3"	05/22/1996	Sediment	25.8	10.7	No Data	11.2	13.6	3.4	19.1	6.9	0.08U
22SD96-02 0-3"	05/22/1996	Sediment	3.3U	7.6	No Data	5.9	7.8	2.7	54.3	19.3	0.97
22SD96-03 0-3"	05/22/1996	Sediment	24.8	8.7	No Data	5.8	8.5	2.2	40.1	14.0	0.60
22SD96-04 0-3"	05/22/1996	Sediment	23.0	6.0	No Data	6.2	6.3	2.4	20.3	7.4	0.06U
22SD96-05 0-3"	05/22/1996	Sediment	29.1	5.6	No Data	4.4	5.8	1.8	17.8	5.9	0.68
22SD96-06 0-3"	05/24/1996	Sediment	24.0	12.3J	No Data	10.9	14.9	2.6J	35.2	11.5	0.54
22SD96-07 9-15"	06/06/1996	Sediment	20.0	17.8	No Data	19.9	21.0	2.3	52.8	14.3	0.66
22SD96-07 9-15" (Dup)	06/06/1996	Sediment	22.3	16.6	No Data	18.1	23.2	1.7	40.8	15.0	0.77
22SS96-N 0-3"	05/22/1996	Soil	19.9	13.1	No Data	12.2	15.8	1.7	16.2	5.5	0.49
22SS96-N 3-24"	05/22/1996	Soil	22.8	33.8	No Data	36.8	45.2	2.5	26.7	9.2	0.40
22SS96-N2 0-3"	05/22/1996	Soil	22.1	30.9	No Data	31.0	42.7	2.8	27.0	9.9	0.47
22SS96-N2 3-24"	05/22/1996	Soil	27.1	53.9	No Data	62.3	75.5	3.3	37.6	13.7	0.72
23SD96-01 0-3"	05/24/1996	Sediment	33.2	50.6	No Data	38.7	32.4	2.9	27.9	10.2	0.45
23SD96-02 0-3"	05/24/1996	Sediment	25.9	10.6	No Data	9.0	12.2	2.2	28.4	9.7	0.56
23SD96-03 0-3"	05/24/1996	Sediment	25.9	7.6	No Data	7.6	10.1	2.7	18.0	5.9	0.41
23SD96-04 0-3"	05/24/1996	Sediment	26.7	3.9	No Data	4.2	5.7	2.0	9.6	3.3	0.07U
23SD96-05 0-3"	05/24/1996	Sediment	28.9	4.5	No Data	5.0	5.0	2.4	13.3	4.4	0.26
23SD96-06 0-3"	05/24/1996	Sediment	30.7	13.9	No Data	19.7	26.5	2.7	25.6	9.2	0.41
23SD96-07 18-24"	06/06/1996	Sediment	20.9	8.7	No Data	8.0	8.7	2.1	27.2	9.3	0.48

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Soil and Sediment Radiological Data[a]

Sample Location	Sample Date	Sample Type	U238 (pCi/g)
Down-Gradient - Upper Montezuma Creek			
03SS95-02 0-3"	07/18/1995	Soil	3.5
03SS95-02 3-24"	07/18/1995	Soil	1.8J
04SD95-01 0-3"	08/28/1995	Sediment	6.3
04SS95-01 0-3"	07/19/1995	Soil	7.9
04SS95-01 3-24"	07/19/1995	Soil	7.5
04SS95-02 0-3"	07/19/1995	Soil	3.0
04SS95-02 3-24"	07/19/1995	Soil	2.0
05SS95-01 0-3"	07/19/1995	Soil	9.5
05SS95-01 3-24"	07/19/1995	Soil	18.6
05SS95-01 3-24" (Dup)	07/19/1995	Soil	18.9
05SS95-02 0-3"	07/19/1995	Soil	1.8J
05SS95-02 3-24"	07/19/1995	Soil	1.1J
21SD96-01 0-3"	05/22/1996	Sediment	5.6
21SD96-01 0-3" (Dup)	05/22/1996	Sediment	5.8
21SD96-02 0-3"	05/22/1996	Sediment	7.9
21SS96-N 0-3"	05/22/1996	Soil	1.2
21SS96-N 3-24"	05/22/1996	Soil	2.0
21SS96-S 0-3"	05/22/1996	Soil	2.7
21SS96-S 3-24"	05/22/1996	Soil	3.4
22SD96-01 0-3"	05/22/1996	Sediment	6.9
22SD96-02 0-3"	05/22/1996	Sediment	19.0
22SD96-03 0-3"	05/22/1996	Sediment	13.8
22SD96-04 0-3"	05/22/1996	Sediment	7.4
22SD96-05 0-3"	05/22/1996	Sediment	6.0
22SD96-06 0-3"	05/24/1996	Sediment	12.1
22SD96-07 9-15"	06/06/1996	Sediment	14.4
22SD96-07 9-15" (Dup)	06/06/1996	Sediment	14.8
22SS96-N 0-3"	05/22/1996	Soil	6.0
22SS96-N 3-24"	05/22/1996	Soil	9.3
22SS96-N2 0-3"	05/22/1996	Soil	9.6
22SS96-N2 3-24"	05/22/1996	Soil	13.7
23SD96-01 0-3"	05/24/1996	Sediment	10.0
23SD96-02 0-3"	05/24/1996	Sediment	9.9
23SD96-03 0-3"	05/24/1996	Sediment	6.0
23SD96-04 0-3"	05/24/1996	Sediment	3.5
23SD96-05 0-3"	05/24/1996	Sediment	4.5
23SD96-06 0-3"	05/24/1996	Sediment	9.6
23SD96-07 18-24"	06/06/1996	Sediment	9.5

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Soil and Sediment Radiological Data[a]

Sample Location	Sample Date	Sample Type	K40 (pCi/g)	Pb210 (pCi/g)	Po210 (pCi/g)	Ra226 (pCi/g)	Th230 (pCi/g)	Th232 (pCi/g)	U (mg/kg)	U234 (pCi/g)	U235 (pCi/g)
Down-Gradient - Upper Montezuma Creek											
23SD96-07 18-24" (Dup)	06/06/1996	Sediment	20.9	9.2	No Data	8.6	9.0	2.2	26.4	9.2	0.42
23SS96-N 0-3"	05/24/1996	Soil	17.5	14.4	No Data	16.5	22.6	1.5	17.9	6.3	0.26
23SS96-N 3-24"	05/24/1996	Soil	17.8	15.7	No Data	22.7	22.8	2.4	14.9	6.5	0.13U
23SS96-S 0-3"	05/24/1996	Soil	20.6	6.2	No Data	7.3	8.7	1.5	11.1	3.9	0.06U
23SS96-S 3-24"	05/24/1996	Soil	20.4	2.2	No Data	2.8	3.7	0.37U	11.1	3.7	0.11U
BPSD95-01 0-7"	08/22/1995	Sediment	18.1	8.7	9.8	12.4	12.1	0.72U	No Data	8.5	0.38J
BPSD95-02 0-6"	08/22/1995	Sediment	10.2	10.8	9.1	12.3	12.1	2.9	No Data	6.6	0.25J
BPSD95-02 0-18"	08/22/1995	Sediment	14.7	4.3	7.0	8.5	7.5	0.71U	No Data	4.8	0.20U
BPSD95-03 0-6"	08/23/1995	Sediment	13.1	5.2	5.1	5.9	5.5	2.0	No Data	3.6	0.20U
BPSD95-03 0-12"	08/23/1995	Sediment	14.6	8.2	9.1	9.6	9.5	2.8	No Data	4.8	0.20U
BPSD95-04 0-6"	08/23/1995	Sediment	16.6	9.0	6.6	8.3	7.4	2.2	No Data	5.7	0.20U
BPSD95-05 0-6"	08/23/1995	Sediment	10.2	6.5	6.3	8.2	7.6	2.2	No Data	3.0	0.20U
HH1-96 0-3"	05/22/1996	Soil	19.8	26.8	No Data	31.0	38.8	2.2	35.2	12.4	0.58
HH2-96 0-3"	05/22/1996	Soil	19.5	17.0	No Data	19.9	22.1	1.7	20.8	6.9	0.35
HH3-96 0-3"	05/22/1996	Soil	20.8	18.1	No Data	23.4	28.0	1.5	22.1	7.9	0.36
HH4-96 0-3"	05/22/1996	Soil	18.6	22.8	No Data	25.7	33.3	1.8	20.9	7.2	0.29
HH5-96 0-3"	05/22/1996	Soil	18.0	7.9	No Data	8.5	11.2	1.5	11.8	3.7	0.61
HH6-96 0-3"	05/23/1996	Soil	21.2	11.2	No Data	14.6	20.9	2.0	16.9	6.4	0.30
HH7-96 0-3"	05/23/1996	Soil	18.4	3.8	No Data	5.3	6.3	1.8	9.9	3.4	0.04U
HH8-96 0-3"	05/23/1996	Soil	18.5	19.4	No Data	23.8	29.9	2.0	21.8	8.4	0.42
HH9-96 0-3"	05/23/1996	Soil	16.9	9.8	No Data	9.7	12.8	1.2	11.9	4.4	0.09U
HH10-96 0-3"	05/23/1996	Soil	19.2	5.4	No Data	5.4	7.7	1.6	11.4	4.2	0.09U
HH11-96 0-3"	05/23/1996	Soil	19.0	5.8	No Data	5.0	7.1	1.8	15.6	5.4	0.12U
HH12-96 0-3"	05/23/1996	Soil	20.5	6.2	No Data	6.9	8.4	2.1	18.8	7.1	0.23
HH13-96 0-3"	05/23/1996	Soil	17.3	30.4	No Data	32.2	44.3	1.8	33.6	11.7	0.58
HH15-96 0-3"	05/29/1996	Soil	16.4	7.5	No Data	8.0	10.8	1.3	19.6	8.4	0.40
HH16-96 0-3"	05/29/1996	Soil	18.9	7.4	No Data	7.2	10.9	1.3	24.5	6.3	0.24
IPSD95-01 0-6"	08/22/1995	Sediment	17.7	2U	3.9	4.9	4.2	2.4	No Data	5.1	0.20U
IPSD95-01 0-24"	08/22/1995	Sediment	17.4	2.4	3.6	5.3	4.1	2.4	No Data	9.0	0.37J
IPSD95-02 0-6"	08/22/1995	Sediment	19.8	4.9	7.4	8.4	7.0	3.1	No Data	4.1	0.20U
IPSD95-02 0-20"	08/22/1995	Sediment	17.0	4.8	6.9	7.5	7.2	1.1U	No Data	3.4	0.20U
IPSD95-03 0-6"	08/22/1995	Sediment	16.9	2U	5.1	6.2	5.8	3.4	No Data	3.2	0.20U
IPSD95-03 0-24"	08/22/1995	Sediment	18.9	2.8	4.3	4.5	4.6	2.6	No Data	5.7	0.22J
IPSD95-04 0-6"	08/22/1995	Sediment	19.3	2.6	5.4	6.9	5.3	0.80U	No Data	3.8	0.20U
IPSD95-04 0-18"	08/22/1995	Sediment	16.8	2U	3.8	5.4	4.2	2.8	No Data	7.5	0.32J
IPSD95-05 0-6"	08/22/1995	Sediment	11.5	3.3	4.6	5.8	5.0	0.45U	No Data	3.4	0.20U
IPSD95-05 0-24"	08/22/1995	Sediment	16.1	5.6	3.8	4.8	4.9	2.2	No Data	4.7	0.20U
IPSD95-05 0-24" (Dup)	08/22/1995	Sediment	15.6	5.0	3.9	4.9	4.6	0.69U	No Data	4.7	0.20U

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.

Soil and Sediment Radiological Data[a]

Sample Location	Sample Date	Sample Type	U238 (pCi/g)
Down-Gradient - Upper Montezuma Creek			
23SD96-07 18-24" (Dup)	06/06/1996	Sediment	9.2
23SS96-N 0-3"	05/24/1996	Soil	6.6
23SS96-N 3-24"	05/24/1996	Soil	6.7
23SS96-S 0-3"	05/24/1996	Soil	3.7
23SS96-S 3-24"	05/24/1996	Soil	4.0
BPSD95-01 0-7"	08/22/1995	Sediment	9.3
BPSD95-02 0-6"	08/22/1995	Sediment	7.0
BPSD95-02 0-18"	08/22/1995	Sediment	5.2
BPSD95-03 0-6"	08/23/1995	Sediment	3.9
BPSD95-03 0-12"	08/23/1995	Sediment	5.2
BPSD95-04 0-6"	08/23/1995	Sediment	5.9
BPSD95-05 0-6"	08/23/1995	Sediment	2.9
HH1-96 0-3"	05/22/1996	Soil	12.8
HH2-96 0-3"	05/22/1996	Soil	7.5
HH3-96 0-3"	05/22/1996	Soil	7.5
HH4-96 0-3"	05/22/1996	Soil	7.3
HH5-96 0-3"	05/22/1996	Soil	3.5
HH6-96 0-3"	05/23/1996	Soil	6.2
HH7-96 0-3"	05/23/1996	Soil	3.4
HH8-96 0-3"	05/23/1996	Soil	8.5
HH9-96 0-3"	05/23/1996	Soil	4.4
HH10-96 0-3"	05/23/1996	Soil	4.3
HH11-96 0-3"	05/23/1996	Soil	5.1
HH12-96 0-3"	05/23/1996	Soil	7.0
HH13-96 0-3"	05/23/1996	Soil	12.1
HH15-96 0-3"	05/29/1996	Soil	9.1
HH16-96 0-3"	05/29/1996	Soil	6.6
IPSD95-01 0-6"	08/22/1995	Sediment	5.2
IPSD95-01 0-24"	08/22/1995	Sediment	9.4
IPSD95-02 0-6"	08/22/1995	Sediment	4.2
IPSD95-02 0-20"	08/22/1995	Sediment	3.7
IPSD95-03 0-6"	08/22/1995	Sediment	3.9
IPSD95-03 0-24"	08/22/1995	Sediment	6.2
IPSD95-04 0-6"	08/22/1995	Sediment	4.1
IPSD95-04 0-18"	08/22/1995	Sediment	8.2
IPSD95-05 0-6"	08/22/1995	Sediment	3.4
IPSD95-05 0-24"	08/22/1995	Sediment	5.3
IPSD95-05 0-24" (Dup)	08/22/1995	Sediment	5.2

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.

Soil and Sediment Radiological Data[a]

Sample Location	Sample Date	Sample Type	K40 (pCi/g)	Pb210 (pCi/g)	Po210 (pCi/g)	Ra226 (pCi/g)	Th230 (pCi/g)	Th232 (pCi/g)	U (mg/kg)	U234 (pCi/g)	U235 (pCi/g)
Down-Gradient - Upper Montezuma Creek											
R1-96 0-3"	05/23/1996	Soil	21.9	5.6	No Data	6.4	8.6	2.1	10.5	3.9	0.17
R1-96 15-21"	05/23/1996	Soil	22.4	63.5	No Data	75.2	93.6	2.4	33.7	12.4	0.50
R2-96 0-3"	05/23/1996	Soil	18.0	1.4U	No Data	1.3	1.8	1.5	3.8	1.3	0.04U
R2-96 3-9"	05/29/1996	Soil	15.5	1.3U	No Data	0.96	2.2	1.3	16.8	1.0	0.06U
R3-96 0-3"	05/22/1996	Soil	20.3	1.5U	No Data	2.0	1.9	1.4	4.4	1.3	0.05U
R3-96 3-9"	05/22/1996	Soil	18.1	1.3U	No Data	1.4	1.3	1.4	3.4	1.1	0.08U
R3-96 3-9" (Dup)	05/22/1996	Soil	21.8	1.4U	No Data	1.3	1.3	1.1	3.4	1.1	0.05U
R4-96 0-3"	05/22/1996	Soil	21.9	20.3	No Data	30.9	36.9	1.8	20.4	6.9	0.33
R5-96 0-3"	05/22/1996	Soil	19.5	26.0	No Data	34.2	47.2	1.4	27.9	10.3	0.41
R5-96 9-15"	05/22/1996	Soil	21.1	18.2	No Data	27.4	28.1	1.3	20.8	7.6	0.34
R6-96 0-3"	05/22/1996	Soil	20.2	14.0	No Data	19.8	21.4	2.1	20.3	6.4	0.31
R6-96 3-9"	05/29/1996	Soil	17.1	7.4	No Data	8.7	12.2	1.5	10.5	3.3	0.12
R7-96 0-3"	05/22/1996	Soil	19.2	27.4	No Data	29.6	30.8	1.7	23.9	7.9	0.41
R7-96 3-9"	05/22/1996	Soil	21.1	121	No Data	131	166	1.9	70.5	24.8	1.0
R8-96 0-3"	05/22/1996	Soil	20.8	22.8	No Data	23.6	30.6	1.8	23.5	7.9	0.32
R8-96 3-9"	05/22/1996	Soil	15.8	20.0	No Data	20.7	28.0	1.5	23.4	8.0	0.35
R9-96 0-3"	05/22/1996	Soil	23.1	3.8	No Data	2.5	2.8U	1.8	4.9	1.6	0.06U
R10-96 0-3"	05/23/1996	Soil	19.3	16.2	No Data	19.5	23.1	1.9	14.5	4.8	0.25
R11-96 0-3"	05/23/1996	Soil	21.0	94.2	No Data	111	133	2.0	93.3	32.4	2.1
R11-96 3-9"	05/23/1996	Soil	18.6	49.4	No Data	55.7	67.4	1.7	44.2	16.3	2.1
R12-96 0-3"	05/23/1996	Soil	17.3	6.6	No Data	8.1	11.7	1.5	10.8	3.8	0.05U
R12-96 0-3" (Dup)	05/23/1996	Soil	19.8	7.6	No Data	7.7	10.4	1.3	10.8	3.9	0.06U
R13-96 0-3"	05/29/1996	Soil	18.5	7.8	No Data	11.4	14.9	1.7	2.9	5.7	0.32
R15-96 0-3"	05/29/1996	Soil	17.1	3.8	No Data	4.0	5.2	1.5	7.4	2.6	0.09
R16-96 0-3"	05/29/1996	Soil	18.2	34.5	No Data	56.2	65.1	3.1	46.3	15.6	0.61
R16-96 3-9"	05/29/1996	Soil	17.3	20.8	No Data	26.8	37.3	1.6	20.1	7.2	0.28
R17-96 0-3"	05/29/1996	Soil	19.5	17.9	No Data	30.4	35.0	1.6	24.7	8.7	0.33
R39-96 0-3"	05/29/1996	Soil	19.2	4.0	No Data	3.6	4.8	1.5	20.8	7.7	0.56
R39-96 3-9"	05/29/1996	Soil	20.5	7.2	No Data	8.7	8.8	1.7	18.8	6.1	0.35
S94-015 0-6"	11/16/1994	Sediment	19.0	2U	No Data	3.7	4.4	2.4	12.2	No Data	No Data
S94-016 0-6"	11/11/1994	Sediment	13.1	6.1	No Data	6.6	12.7	0.37U	17.2	No Data	No Data
S94-016 0-6" (Dup)	11/11/1994	Sediment	2.2U	6.3	No Data	4.1	12.2	0.55U	17.1	No Data	No Data
S94-016 6-12"	11/11/1994	Sediment	2.1U	16.4	No Data	7.9	29.1	0.67U	18.9	No Data	No Data
S94-016 12-18"	11/11/1994	Sediment	2.3U	13.9	No Data	6.6	20.0	0.62U	17.1	No Data	No Data
SS94-001 0-6"	11/16/1994	Soil	16.3	16.3	No Data	35.5	36.2	3.0	31.2	No Data	No Data
SS94-001 6-12"	11/16/1994	Soil	17.3	5.7	No Data	14.1	15.2	2.3	13.6	No Data	No Data
SS94-002 0-6"	11/16/1994	Soil	19.6	2U	No Data	3.9	4.0	1.7	6.9	No Data	No Data
SS94-002 0-6" (Dup)	11/16/1994	Soil	19.8	2U	No Data	3.7	3.8	2.0	7.3	No Data	No Data

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Soil and Sediment Radiological Data[a]

Sample Location	Sample Date	Sample Type	U238 (pCi/g)
Down-Gradient - Upper Montezuma Creek			
R1-96 0-3"	05/23/1996	Soil	3.7
R1-96 15-21"	05/23/1996	Soil	12.3
R2-96 0-3"	05/23/1996	Soil	1.2
R2-96 3-9"	05/29/1996	Soil	1.0
R3-96 0-3"	05/22/1996	Soil	1.4
R3-96 3-9"	05/22/1996	Soil	1.1
R3-96 3-9" (Dup)	05/22/1996	Soil	1.2
R4-96 0-3"	05/22/1996	Soil	7.0
R5-96 0-3"	05/22/1996	Soil	10.2
R5-96 9-15"	05/22/1996	Soil	7.4
R6-96 0-3"	05/22/1996	Soil	6.5
R6-96 3-9"	05/29/1996	Soil	3.2
R7-96 0-3"	05/22/1996	Soil	8.2
R7-96 3-9"	05/22/1996	Soil	23.7
R8-96 0-3"	05/22/1996	Soil	7.7
R8-96 3-9"	05/22/1996	Soil	8.1
R9-96 0-3"	05/22/1996	Soil	1.5
R10-96 0-3"	05/23/1996	Soil	5.3
R11-96 0-3"	05/23/1996	Soil	32.7
R11-96 3-9"	05/23/1996	Soil	15.8
R12-96 0-3"	05/23/1996	Soil	4.2
R12-96 0-3" (Dup)	05/23/1996	Soil	4.0
R13-96 0-3"	05/29/1996	Soil	5.5
R15-96 0-3"	05/29/1996	Soil	2.7
R16-96 0-3"	05/29/1996	Soil	15.4
R16-96 3-9"	05/29/1996	Soil	7.7
R17-96 0-3"	05/29/1996	Soil	9.1
R39-96 0-3"	05/29/1996	Soil	7.9
R39-96 3-9"	05/29/1996	Soil	6.1
S94-015 0-6"	11/16/1994	Sediment	No Data
S94-016 0-6"	11/11/1994	Sediment	No Data
S94-016 0-6" (Dup)	11/11/1994	Sediment	No Data
S94-016 6-12"	11/11/1994	Sediment	No Data
S94-016 12-18"	11/11/1994	Sediment	No Data
SS94-001 0-6"	11/16/1994	Soil	No Data
SS94-001 6-12"	11/16/1994	Soil	No Data
SS94-002 0-6"	11/16/1994	Soil	No Data
SS94-002 0-6" (Dup)	11/16/1994	Soil	No Data

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.

Soil and Sediment Radiological Data[a]

Sample Location	Sample Date	Sample Type	K40 (pCi/g)	Pb210 (pCi/g)	Po210 (pCi/g)	Ra226 (pCi/g)	Th230 (pCi/g)	Th232 (pCi/g)	U (mg/kg)	U234 (pCi/g)	U235 (pCi/g)
Down-Gradient - Upper Montezuma Creek											
SS94-003 0-6"	11/16/1994	Soil	16.6	8.4	No Data	16.6	16.3	2.7	16.4	No Data	No Data
SS94-003 6-12"	11/16/1994	Soil	20.1	16.1	No Data	32.9	38.7	0.99U	23.6	No Data	No Data
SS94-003 12-18"	11/16/1994	Soil	16.2	9.8	No Data	22.8	23.7	1.6	19.2	No Data	No Data
SS94-003 18-24"	11/16/1994	Soil	16.1	3.7	No Data	10	11.3	2.0	12.5	No Data	No Data
SS94-003 18-24" (Dup)	11/16/1994	Soil	16.7	4.7	No Data	10.9	11.6	0.60U	12.8	No Data	No Data
SS94-004 0-6"	11/15/1994	Soil	19.2	16.4	No Data	32.7	34.4	0.57U	44.1	No Data	No Data
SS94-004 6-12"	11/15/1994	Soil	15.4	4.0	No Data	8.2	7.7	0.31U	17.9	No Data	No Data
SS94-004 12-18"	11/15/1994	Soil	18.3	18.3	No Data	27.0	27.1	2.7	20.3	No Data	No Data
SS94-004 18-24"	11/15/1994	Soil	22.8	43.8	No Data	56.7	61.6	2.6	23.4	No Data	No Data
SS94-005 0-6"	11/15/1994	Soil	16.8	20.9	No Data	48.5	44.1	1.7	33.5	No Data	No Data
SS94-005 6-12"	11/15/1994	Soil	16.2	3.0	No Data	7.2	8.5	0.32U	8.9	No Data	No Data
SS94-006 0-6"	11/15/1994	Soil	15.8	2U	No Data	5.7	5.6	1.7	6.4	No Data	No Data
SS94-006 6-12"	11/15/1994	Soil	17.5	2.8	No Data	7.6	7.4	2.5	8.1	No Data	No Data
SS94-006 12-18"	11/15/1994	Soil	17.8	10.1	No Data	3.1	3.6	2.3	6.0	No Data	No Data
SS94-006 18-24"	11/15/1994	Soil	18.8	2U	No Data	2.4	3.0	1.8	5.0	No Data	No Data
SS94-006 18-24" (Dup)	11/15/1994	Soil	19.6	2U	No Data	2.6	2.9	2.2	4.8	No Data	No Data
SS94-007 0-6"	11/15/1994	Soil	20.2	2U	No Data	3.9	3.5	1.9	5.1	No Data	No Data
SS94-008 0-6"	11/15/1994	Soil	16.3	2U	No Data	3.9	4.5	1.9	5.4	No Data	No Data
SS94-009 0-6"	11/14/1994	Soil	16.0	71.5	No Data	74.2	160	4.0	98.9	No Data	No Data
SS94-009 6-12"	11/14/1994	Soil	16.7	88.4	No Data	137	203	5.8	118	No Data	No Data
SS94-009 12-18"	11/14/1994	Soil	2.1U	30.0	No Data	50.9	73.8	0.82U	54.9	No Data	No Data
SS94-009 18-24"	11/14/1994	Soil	17.6	10.7	No Data	23.9	25.6	0.36U	29.3	No Data	No Data
SS94-010 0-6"	11/14/1994	Soil	15.9	12.3	No Data	23.1	28.3	3.2	21.8	No Data	No Data
SS94-010 6-12"	11/14/1994	Soil	6.8	21.8	No Data	12.8	44.9	1.7	28.2	No Data	No Data
SS94-010 12-18"	11/14/1994	Soil	1.5U	5.2	No Data	9.3	12.4	0.24U	14.2	No Data	No Data
SS94-010 18-24"	11/14/1994	Soil	7.9	12.9	No Data	14.8	26.8	1.3	18.9	No Data	No Data
SS94-011 0-6"	11/15/1994	Soil	13.2	4.0	No Data	12.0	11.1	3.0	16.1	No Data	No Data
SS94-011 0-6" (Dup)	11/15/1994	Soil	13.7	6.8	No Data	11.0	10.9	2.3	15.5	No Data	No Data
SS94-011 6-12"	11/15/1994	Soil	16.3	21.4	No Data	30.1	45.2	0.69U	30.5	No Data	No Data
SS94-011 12-18"	11/15/1994	Soil	6.7	6.7	No Data	7.2	13.7	0.19U	18.0	No Data	No Data
SS94-011 18-24"	11/15/1994	Soil	1.5U	4.8	No Data	5.1	8.1	1.3	15.9	No Data	No Data
UBPSD95-01 0-6"	08/23/1995	Sediment	13.1	6.6	6.0	8.2	7.8	0.58U	No Data	3.4	0.20U
UBPSD95-01 0-24"	08/23/1995	Sediment	15.1	2U	1.8	2.7	0.15U	3.3	No Data	2.1	0.20U
UBPSD95-02 0-6"	08/23/1995	Sediment	17.6	40.7	47.6	55.1	56.4	3.1	No Data	9.7	0.43J
UBPSD95-02 0-12"	08/23/1995	Sediment	16.5	18.6	21.1	25.9	26.5	1.1U	No Data	6.8	0.26J
UBPSD95-03 0-6"	08/23/1995	Sediment	16.2	2.4	2.8	4.4	3.8	2.8	No Data	2.8	0.20U
UBPSD95-03 0-24"	08/23/1995	Sediment	16.9	2U	2.2	3.3	2.8	0.63U	No Data	2.5	0.20U
UBPSD95-04 0-6"	08/23/1995	Sediment	14.6	6.0	6.4	7.8	9.5	2.6	No Data	15.7	0.75J

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Soil and Sediment Radiological Data[a]

Sample Location	Sample Date	Sample Type	U238 (pCi/g)
Down-Gradient - Upper Montezuma Creek			
SS94-003 0-6"	11/16/1994	Soil	No Data
SS94-003 6-12"	11/16/1994	Soil	No Data
SS94-003 12-18"	11/16/1994	Soil	No Data
SS94-003 18-24"	11/16/1994	Soil	No Data
SS94-003 18-24" (Dup)	11/16/1994	Soil	No Data
SS94-004 0-6"	11/15/1994	Soil	No Data
SS94-004 6-12"	11/15/1994	Soil	No Data
SS94-004 12-18"	11/15/1994	Soil	No Data
SS94-004 18-24"	11/15/1994	Soil	No Data
SS94-005 0-6"	11/15/1994	Soil	No Data
SS94-005 6-12"	11/15/1994	Soil	No Data
SS94-006 0-6"	11/15/1994	Soil	No Data
SS94-006 6-12"	11/15/1994	Soil	No Data
SS94-006 12-18"	11/15/1994	Soil	No Data
SS94-006 18-24"	11/15/1994	Soil	No Data
SS94-006 18-24" (Dup)	11/15/1994	Soil	No Data
SS94-007 0-6"	11/15/1994	Soil	No Data
SS94-008 0-6"	11/15/1994	Soil	No Data
SS94-009 0-6"	11/14/1994	Soil	No Data
SS94-009 6-12"	11/14/1994	Soil	No Data
SS94-009 12-18"	11/14/1994	Soil	No Data
SS94-009 18-24"	11/14/1994	Soil	No Data
SS94-010 0-6"	11/14/1994	Soil	No Data
SS94-010 6-12"	11/14/1994	Soil	No Data
SS94-010 12-18"	11/14/1994	Soil	No Data
SS94-010 18-24"	11/14/1994	Soil	No Data
SS94-011 0-6"	11/15/1994	Soil	No Data
SS94-011 0-6" (Dup)	11/15/1994	Soil	No Data
SS94-011 6-12"	11/15/1994	Soil	No Data
SS94-011 12-18"	11/15/1994	Soil	No Data
SS94-011 18-24"	11/15/1994	Soil	No Data
UBPSD95-01 0-6"	08/23/1995	Sediment	3.6
UBPSD95-01 0-24"	08/23/1995	Sediment	2.2
UBPSD95-02 0-6"	08/23/1995	Sediment	10.3
UBPSD95-02 0-12"	08/23/1995	Sediment	7.3
UBPSD95-03 0-6"	08/23/1995	Sediment	2.8
UBPSD95-03 0-24"	08/23/1995	Sediment	2.6
UBPSD95-04 0-6"	08/23/1995	Sediment	17.0

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.

Soil and Sediment Radiological Data[a]

Sample Location	Sample Date	Sample Type	K40 (pCi/g)	Pb210 (pCi/g)	Po210 (pCi/g)	Ra226 (pCi/g)	Th230 (pCi/g)	Th232 (pCi/g)	U (mg/kg)	U234 (pCi/g)	U235 (pCi/g)
Down-Gradient - Upper Montezuma Creek											
UBPSD95-05 0-6"	08/23/1995	Sediment	14.6	25.7	27.8	37.5	39.7	1.1U	No Data	10.2	0.45J
Down-Gradient - Middle Montezuma Creek											
24SD96-01 0-3"	05/28/1996	Sediment	17.8	6.6	No Data	6.6	7.2	2.2	35.2	12.0	0.83
24SD96-02 0-3"	05/28/1996	Sediment	19.1	6.7	No Data	6.2	6.5	1.8	30.3	10.3	0.41
24SS96-N 0-3"	05/28/1996	Soil	18.9	1.9U	No Data	2.2	1.7	2.1	3.5	1.2	0.12
24SS96-N 3-24"	05/28/1996	Soil	21.2	1.8U	No Data	1.7	1.7	1.8	3.3	1.3	0.09U
24SS96-S 0-3"	05/28/1996	Soil	22.0	16.8	No Data	23.6	1.6	1.7	24.4	0.95	0.13
24SS96-S 3-24"	05/28/1996	Soil	19.6	23.2	No Data	33.1	34.1	1.5	26.1	9.1	0.46
25SD96-01 0-3"	05/29/1996	Sediment	18.6	2.9	No Data	2.6	2.3	1.1	6.9	2.4	0.11
25SD96-02 0-3"	05/29/1996	Sediment	20.3	3.2	No Data	2.5	2.5	1.1	6.2	2.0	0.12
25SS96-N 0-3"	05/29/1996	Soil	19.8	12.3	No Data	17.5	24.6	1.4	17.4	5.4	0.19
25SS96-N 3-24"	05/29/1996	Soil	18.4	5.5	No Data	5.6	6.5	1.3	16.6	5.9	0.36
25SS96-N 3-24" (Dup)	05/29/1996	Soil	20.0	5.6	No Data	6.0	7.1	1.6	17.9	5.9	0.21
25SS96-S 0-3"	05/29/1996	Soil	14.6	22.2	No Data	21.2	30.0	2.0	22.4	7.3	0.33
25SS96-S 3-24"	05/29/1996	Soil	18.1	13.8	No Data	14.3	18.4	1.8	21.9	7.1	0.25
HH14-96 0-3"	05/29/1996	Soil	19.9	1.8U	No Data	3.2	4.8	1.7	5.0	1.8	0.16
HH17-96 0-3"	05/29/1996	Soil	20.1	1.3	No Data	0.72	0.94	1.0	2.3	0.83	0.10U
HH18-96 0-3"	05/30/1996	Soil	18.1	1.3U	No Data	0.93	1.1	0.96	2.2	0.72	0.05
R18-96 0-3"	05/28/1996	Soil	19.5	3.0	No Data	6.3	7.1	1.7	7.2	2.6	0.08U
R19-96 0-3"	05/28/1996	Soil	20.2	36.4	No Data	46.5	62.8	2.3	41.9	15.8	0.60
R19-96 3-9"	05/28/1996	Soil	20.6	13.3	No Data	19.9	22.6	1.8	23.9	8.3	0.33
R19-96 3-9" (Dup)	05/28/1996	Soil	20.8	13.4	No Data	19.3	25.0	2.6	23.2	8.0	0.41
R20-96 0-3"	05/28/1996	Soil	19.7	2.1U	No Data	3.2	3.7	1.5	5.1	1.7	0.10
R20-96 3-9"	05/29/1996	Soil	18.9	1.8U	No Data	1.7	2.4	1.2	3.6	1.4	0.19
R21-96 0-3"	05/28/1996	Soil	17.9	3.3	No Data	3.3	4.0	2.0	5.2	1.9	0.13
R22-96 0-3"	05/28/1996	Soil	22.1	33.3	No Data	48.8	55.0	1.7	38.8	13.2	0.60
R23-96 0-3"	05/28/1996	Soil	14.9	30.9	No Data	32.5	41.1	2.6	45.7	14.8	0.57
R23-96 33-39"	05/29/1996	Soil	20.6	93.1	No Data	115	107	0.94U	46.2	15.4	0.71
R24-96 0-3"	05/28/1996	Soil	20.1	1.8U	No Data	1.2	1.4	1.3	2.9	0.97	0.13U
R24-96 3-9"	05/29/1996	Soil	16.2	1.7U	No Data	1.9	2.0	1.8	2.9	0.98	0.07U
R25-96 0-3"	05/28/1996	Soil	18.3	27.9	No Data	33.6	46.7	1.4	28.8	8.7	0.39
R26-96 0-3"	05/30/1996	Soil	19.9	2.5	No Data	2.2	2.4	1.6	4.0	1.2	0.15
R27-96 0-3"	05/30/1996	Soil	19.3	24.0	No Data	18.3	19.6	1.9	27.3	9.0	0.42
R27-96 21-27"	05/30/1996	Soil	26.3	67.8	No Data	73.1	96.5	1.9	42.8	16.1	0.72
R27-96 21-27" (Dup)	05/30/1996	Soil	19.0	62.8	No Data	73.0	82.2	2.0	40.7	14.4	0.77
R28-96 0-3"	05/29/1996	Soil	16.7	2.7	No Data	4.0	4.0	1.4	5.1	1.9	0.15
R29-96 0-3"	05/29/1996	Soil	18.9	1.4	No Data	1.4	1.8	1.1	3.3	1.3	0.06U
R29-96 3-9"	05/29/1996	Soil	18.0	1.6	No Data	1.5	1.6	1.5	3.4	1.2	0.07U

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Soil and Sediment Radiological Data[a]

Sample Location	Sample Date	Sample Type	U238 (pCi/g)
Down-Gradient - Upper Montezuma Creek			
UBPSD95-05 0-6"	08/23/1995	Sediment	10.7
Down-Gradient - Middle Montezuma Creek			
24SD96-01 0-3"	05/28/1996	Sediment	11.6
24SD96-02 0-3"	05/28/1996	Sediment	9.9
24SS96-N 0-3"	05/28/1996	Soil	1.3
24SS96-N 3-24"	05/28/1996	Soil	1.2
24SS96-S 0-3"	05/28/1996	Soil	1.4
24SS96-S 3-24"	05/28/1996	Soil	9.3
25SD96-01 0-3"	05/29/1996	Sediment	2.3
25SD96-02 0-3"	05/29/1996	Sediment	2.1
25SS96-N 0-3"	05/29/1996	Soil	5.9
25SS96-N 3-24"	05/29/1996	Soil	6.2
25SS96-N 3-24" (Dup)	05/29/1996	Soil	6.0
25SS96-S 0-3"	05/29/1996	Soil	7.1
25SS96-S 3-24"	05/29/1996	Soil	7.6
HH14-96 0-3"	05/29/1996	Soil	1.8
HH17-96 0-3"	05/29/1996	Soil	0.77
HH18-96 0-3"	05/30/1996	Soil	0.75
R18-96 0-3"	05/28/1996	Soil	2.4
R19-96 0-3"	05/28/1996	Soil	15.1
R19-96 3-9"	05/28/1996	Soil	8.6
R19-96 3-9" (Dup)	05/28/1996	Soil	8.0
R20-96 0-3"	05/28/1996	Soil	1.6
R20-96 3-9"	05/29/1996	Soil	1.6
R21-96 0-3"	05/28/1996	Soil	1.7
R22-96 0-3"	05/28/1996	Soil	13.4
R23-96 0-3"	05/28/1996	Soil	15.0
R23-96 33-39"	05/29/1996	Soil	15.5
R24-96 0-3"	05/28/1996	Soil	0.97
R24-96 3-9"	05/29/1996	Soil	1.2
R25-96 0-3"	05/28/1996	Soil	8.8
R26-96 0-3"	05/30/1996	Soil	1.6
R27-96 0-3"	05/30/1996	Soil	9.4
R27-96 21-27"	05/30/1996	Soil	16.7
R27-96 21-27" (Dup)	05/30/1996	Soil	14.2
R28-96 0-3"	05/29/1996	Soil	1.9
R29-96 0-3"	05/29/1996	Soil	1.3
R29-96 3-9"	05/29/1996	Soil	1.1

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Soil and Sediment Radiological Data[a]

Sample Location	Sample Date	Sample Type	K40 (pCi/g)	Pb210 (pCi/g)	Po210 (pCi/g)	Ra226 (pCi/g)	Th230 (pCi/g)	Th232 (pCi/g)	U (mg/kg)	U234 (pCi/g)	U235 (pCi/g)
Down-Gradient - Middle Montezuma Creek											
R30-96 0-3"	05/29/1996	Soil	19.2	2.0	No Data	1.6	1.8	1.2	3.6	1.3	0.08U
R30-96 3-9"	05/29/1996	Soil	16.9	1.4U	No Data	1.1	1.4	1.4	3.1	1.2	0.12
R31-96 0-3"	05/29/1996	Soil	16.1	13.1	No Data	15.4	19.8	1.5	15.1	5.4	0.33
R32-96 0-3"	05/30/1996	Soil	18.0	14.1	No Data	19.7	21.8	1.5	34.4	11.7	0.65
R32-96 3-9"	05/30/1996	Soil	24.2	23.7	No Data	35.2	41.1	1.7	42.2	15.0	0.68
R32-96 3-9" (Dup)	05/30/1996	Soil	20.4	27.1	No Data	46.8	47.4	1.2	46.5	15.3	0.64
R33-96 0-3"	05/30/1996	Soil	22.7	8.1	No Data	10.6	13.2	2.2	25.1	8.4	0.38
R33-96 3-9"	05/30/1996	Soil	20.0	27.4	No Data	38.6	45.7	1.1	38.9	13.3	0.53
R34-96 0-3"	05/30/1996	Soil	19.1	22.4	No Data	32.5	41.7	1.9	25.4	9.2	0.36
R35-96 0-3"	05/30/1996	Soil	17.3	30.8	No Data	55.9	67.5	1.7	36.0	13.3	0.59
R36-96 0-3"	05/30/1996	Soil	18.1	10.4	No Data	12.8	16.8	1.2	15.2	4.4	0.29
R37-96 0-3"	05/30/1996	Soil	19.1	7.1	No Data	10.7	12.2	1.4	9.5	3.2	0.12
R38-96 0-3"	05/30/1996	Soil	21.6	12.1	No Data	13.9	19.6	1.9	11.5	4.1	0.13
Down-Gradient - Lower Montezuma Creek											
06SD95-01 0-6"	08/24/1995	Sediment	16.1	2.7	3.3	4.7	2.8	1.8	No Data	4.4	0.20U
06SD95-01 0-6" (Dup)	08/24/1995	Sediment	16.3	2U	2.9	4.3	3.1	0.45U	No Data	3.5	0.20U
06SS95-01 0-3"	07/20/1995	Soil	15.2	74.4	81.5	120	141	1.3U	No Data	27.4	1.2J
06SS95-01 3-24"	07/20/1995	Soil	15.6	23.5	27.8	39.5	45.6	0.67U	No Data	10.8	0.40J
06SS95-02 0-3"	07/20/1995	Soil	17.3	2U	2.4	1.8	1.6	1.5	No Data	1.1	0.20U
06SS95-02 3-24"	07/20/1995	Soil	16.5	2U	1.0	1.2	1.2	1.3	No Data	1.3	0.20U
07SD95-01 0-3"	08/24/1995	Sediment	15.9	2U	1.8	2.6	2.0	1.8	No Data	3.0	0.20U
07SS95-01 0-3"	07/25/1995	Soil	26.3	8.7	9.9	14.2	13.0	0.34U	No Data	4.3	0.20U
07SS95-01 3-24"	07/25/1995	Soil	28.9	11.0	19.8	17.4	16.5	2.2	No Data	4.1	0.20U
07SS95-02 0-3"	07/24/1995	Soil	29.5	2U	1.9	2.4	2.0	1.6	No Data	1.4	0.20U
07SS95-02 3-24"	07/24/1995	Soil	29.3	2U	0.99	2.4	1.5	2.6	No Data	1.3	0.20U
08SD95-01 0-3"	08/24/1995	Sediment	16.3	2U	1.1	1.8	1.2	2.0	No Data	0.96J	0.20U
08SS95-01 0-3"	07/25/1995	Soil	24.3	2.0	2.7	3.4	3.0	0.54U	No Data	1.4	0.20U
08SS95-01 3-24"	07/25/1995	Soil	24.5	3.4	5.3	8.2	7.4	0.79U	No Data	1.9	0.20U
08SS95-02 0-3"	07/25/1995	Soil	25.1	2U	1.9	2.7	2.2	0.56U	No Data	1.2	0.20U
08SS95-02 3-24"	07/25/1995	Soil	29.6	7.0	7.7	10.0	8.5	0.75U	No Data	1.9	0.20U
08SS95-02 3-24" (Dup)	07/25/1995	Soil	29.8	5.6	7.1	9.3	7.8	2.7	No Data	1.9	0.20U
09SD95-01 0-6"	08/24/1995	Sediment	17.8	20.7	25.6	30.6	24.7	3.9	No Data	6.7	0.26J
09SS95-01 0-3"	07/25/1995	Soil	25.5	2.5	4.5	5.1	4.9	0.49U	No Data	2.5	0.20U
09SS95-01 3-24"	07/25/1995	Soil	26.0	12.2	14.0	17.0	18.1	2.3	No Data	3.8	0.20U
09SS95-02 0-3"	07/25/1995	Soil	26.5	6.4	6.9	9.5	9.4	1.9	No Data	5.5	0.27J
09SS95-02 3-24"	07/25/1995	Soil	25.7	35.3	36.7	42.2	41.2	1.0U	No Data	6.0	0.26J
HH19-96 0-3"	05/30/1996	Soil	24.4	7.5	No Data	8.1	9.5	1.5	10.7	6.2	0.34
HH20-96 0-3"	05/30/1996	Soil	20.3	10.3	No Data	13.2	15.3	2.2	22.3	7.5	0.36

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Soil and Sediment Radiological Data[a]

Sample Location	Sample Date	Sample Type	U238 (pCi/g)
Down-Gradient - Middle Montezuma Creek			
R30-96 0-3"	05/29/1996	Soil	1.2
R30-96 3-9"	05/29/1996	Soil	1.1
R31-96 0-3"	05/29/1996	Soil	5.4
R32-96 0-3"	05/30/1996	Soil	12.4
R32-96 3-9"	05/30/1996	Soil	15.1
R32-96 3-9" (Dup)	05/30/1996	Soil	15.9
R33-96 0-3"	05/30/1996	Soil	8.5
R33-96 3-9"	05/30/1996	Soil	13.3
R34-96 0-3"	05/30/1996	Soil	9.0
R35-96 0-3"	05/30/1996	Soil	13.2
R36-96 0-3"	05/30/1996	Soil	4.7
R37-96 0-3"	05/30/1996	Soil	3.2
R38-96 0-3"	05/30/1996	Soil	3.8
Down-Gradient - Lower Montezuma Creek			
06SD95-01 0-6"	08/24/1995	Sediment	4.4
06SD95-01 0-6" (Dup)	08/24/1995	Sediment	3.8
06SS95-01 0-3"	07/20/1995	Soil	27.8
06SS95-01 3-24"	07/20/1995	Soil	11.3
06SS95-02 0-3"	07/20/1995	Soil	1.1J
06SS95-02 3-24"	07/20/1995	Soil	0.98J
07SD95-01 0-3"	08/24/1995	Sediment	3.3
07SS95-01 0-3"	07/25/1995	Soil	4.6
07SS95-01 3-24"	07/25/1995	Soil	4.3
07SS95-02 0-3"	07/24/1995	Soil	1.2
07SS95-02 3-24"	07/24/1995	Soil	1.2
08SD95-01 0-3"	08/24/1995	Sediment	1.0J
08SS95-01 0-3"	07/25/1995	Soil	1.6
08SS95-01 3-24"	07/25/1995	Soil	2.0
08SS95-02 0-3"	07/25/1995	Soil	1.3
08SS95-02 3-24"	07/25/1995	Soil	2.0
08SS95-02 3-24" (Dup)	07/25/1995	Soil	2.0
09SD95-01 0-6"	08/24/1995	Sediment	7.2
09SS95-01 0-3"	07/25/1995	Soil	2.5
09SS95-01 3-24"	07/25/1995	Soil	4.0
09SS95-02 0-3"	07/25/1995	Soil	6.0
09SS95-02 3-24"	07/25/1995	Soil	6.3
HH19-96 0-3"	05/30/1996	Soil	3.6
HH20-96 0-3"	05/30/1996	Soil	7.4

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Soil and Sediment Radiological Data[a]

Sample Location	Sample Date	Sample Type	K40 (pCi/g)	Pb210 (pCi/g)	Po210 (pCi/g)	Ra226 (pCi/g)	Th230 (pCi/g)	Th232 (pCi/g)	U (mg/kg)	U234 (pCi/g)	U235 (pCi/g)
Down-Gradient - Lower Montezuma Creek											
HH21-96 0-3"	05/30/1996	Soil	21.4	1.8	No Data	1.9	2.0	1.8	3.4	1.0	0.08
HH22-96 0-3"	05/30/1996	Soil	16.8	2.6	No Data	3.8	3.1	0.49U	4.6	1.6	0.09
HH23-96 0-3"	05/30/1996	Soil	18.0	9.2	No Data	11.6	15.5	1.7	13.6	4.8	0.32
HH24-96 0-3"	05/30/1996	Soil	19.3	2.2	No Data	1.2	15.0	1.3	2.8	10.4	0.51
HH25-96 0-3"	05/30/1996	Soil	18.8	10.7	No Data	11.8	1.6	1.8	32.7	0.85	0.07U
HH26-96 0-3"	05/30/1996	Soil	21.1	1.6	No Data	1.4	1.3	1.1	2.8	0.87	0.09U
R40-96 0-3"	05/31/1996	Soil	21.2	35.6	No Data	43.5	54.0	3.0	34.9	11.8	0.75
R41-96 0-3"	05/31/1996	Soil	16.1	1.6	No Data	1.6	2.0	1.6	3.6	1.2	0.08
R41-96 3-9"	06/03/1996	Soil	20.4	1.3U	No Data	1.0	1.5	1.5	3.4	1.1	0.06
R42-96 0-3"	05/31/1996	Soil	18.1	64.6	No Data	85.2	102	1.2	66.6	22.1	1.5
R42-96 3-9"	06/03/1996	Soil	17.0	6.5	No Data	6.3	9.2	1.3	12.0	3.8	0.16
R43-96 0-3"	05/31/1996	Soil	22.7	44.5	No Data	58.2	75.6	3.2	37.0	12.9	0.62
R43-96 0-3" (Dup)	05/31/1996	Soil	17.9	44.6	No Data	52.0	73.5	1.5	37.5	12.3	0.67
R44-96 0-3"	05/31/1996	Soil	26.7	24.5	No Data	37.5	32.0	3.1	42.2	13.6	0.82
R44-96 9-15"	05/31/1996	Soil	22.2	91.2	No Data	107	131	2.1	70.3	24.0	1.0
R45-96 0-3"	05/31/1996	Soil	21.3	2.4	No Data	1.7	2.1	1.7	3.5	1.1	0.07U
R46-96 0-3"	05/30/1996	Soil	18.4	19.9	No Data	23.6	31.7	1.5	31.1	10.1	0.38
R47-96 0-3"	05/30/1996	Soil	20.5	1.3U	No Data	1.4	1.3	1.4	3.0	1.2	0.06U
R48-96 0-3"	05/30/1996	Soil	19.4	3.2	No Data	3.5	4.4	1.4	7.1	2.2	0.12
R49-96 0-3"	05/30/1996	Soil	18.0	33.7	No Data	41.8	46.2	2.0	39.2	13.7	0.55
R49-96 15-21"	05/31/1996	Soil	25.9	83.5	No Data	105	128	2.3	62.7	22.3	1.1
R50-96 0-3"	05/31/1996	Soil	21.8	17.7	No Data	17.2	19.1	1.7	37.2	12.1	0.59
R51-96 0-3"	05/30/1996	Soil	25.0	1.9	No Data	1.7	1.5	1.6	3.2	0.97	0.07U
R51-96 21-27"	06/03/1996	Soil	21.3	1.4	No Data	1.4	1.5	1.4	3.5	0.98	0.06U
R52-96 0-3"	05/30/1996	Soil	21.1	1.4	No Data	1.3	1.6	1.8	2.9	1.2	0.06U
R53-96 0-3"	05/30/1996	Soil	23.4	9.4	No Data	11.9	13.6	2.3	11.3	3.8	0.29
R54-96 0-3"	06/03/1996	Soil	18.3	2.8	No Data	1.9	2.1	1.5	3.7	1.2	0.07
R55-96 0-3"	06/03/1996	Soil	20.0	14.1	No Data	17.5	17.5	1.6	24.5	8.2	0.39
R55-96 15-21"	06/03/1996	Soil	18.9	113	No Data	105	124	2.8	31.8	11.7	0.45
R56-96 0-3"	06/03/1996	Soil	11.0	1.5	No Data	0.77	1.1	1.1	1.9	0.66	0.08
R56-96 3-6"	06/03/1996	Soil	15.2	2.0	No Data	1.8	1.8	1.3	3.0	0.93	0.05U
R57-96 0-3"	06/03/1996	Soil	12.7	1.4	No Data	1.4	1.6	1.4	11.6	3.7	0.17
R57-96 21-27"	06/03/1996	Soil	20.3	85.0	No Data	87.3	113	0.59U	36.7	12.9	0.65
R57-96 21-27" (Dup)	06/03/1996	Soil	20.5	90.5	No Data	86.6	132	1.5	39.3	12.9	0.61
R58-96 0-3"	06/03/1996	Soil	19.0	4.8	No Data	4.2	4.8	2.1	7.6	2.5	0.17
R59-96 0-3"	06/04/1996	Soil	18.3	10.2	No Data	11.0	14.3	1.5	17.6	5.8	0.30
R60-96 0-3"	06/04/1996	Soil	16.9	2.6	No Data	1.7	1.8	1.2	3.3	1.1	0.05U
R61-96 0-3"	06/04/1996	Soil	18.3	2.1	No Data	1.1	1.4	1.6	3.2	0.95	0.11

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Soil and Sediment Radiological Data[a]

Sample Location	Sample Date	Sample Type	U238 (pCi/g)
Down-Gradient - Lower Montezuma Creek			
HH21-96 0-3"	05/30/1996	Soil	1.3
HH22-96 0-3"	05/30/1996	Soil	1.8
HH23-96 0-3"	05/30/1996	Soil	4.7
HH24-96 0-3"	05/30/1996	Soil	10.7
HH25-96 0-3"	05/30/1996	Soil	0.83
HH26-96 0-3"	05/30/1996	Soil	0.91
R40-96 0-3"	05/31/1996	Soil	11.7
R41-96 0-3"	05/31/1996	Soil	1.1
R41-96 3-9"	06/03/1996	Soil	1.2
R42-96 0-3"	05/31/1996	Soil	22.3
R42-96 3-9"	06/03/1996	Soil	4.2
R43-96 0-3"	05/31/1996	Soil	12.1
R43-96 0-3" (Dup)	05/31/1996	Soil	12.2
R44-96 0-3"	05/31/1996	Soil	14.0
R44-96 9-15"	05/31/1996	Soil	23.8
R45-96 0-3"	05/31/1996	Soil	1.2
R46-96 0-3"	05/30/1996	Soil	11.2
R47-96 0-3"	05/30/1996	Soil	1.1
R48-96 0-3"	05/30/1996	Soil	2.5
R49-96 0-3"	05/30/1996	Soil	13.5
R49-96 15-21"	05/31/1996	Soil	21.9
R50-96 0-3"	05/31/1996	Soil	12.6
R51-96 0-3"	05/30/1996	Soil	1.0
R51-96 21-27"	06/03/1996	Soil	1.2
R52-96 0-3"	05/30/1996	Soil	1.2
R53-96 0-3"	05/30/1996	Soil	3.6
R54-96 0-3"	06/03/1996	Soil	1.2
R55-96 0-3"	06/03/1996	Soil	8.6
R55-96 15-21"	06/03/1996	Soil	10.6
R56-96 0-3"	06/03/1996	Soil	0.82
R56-96 3-6"	06/03/1996	Soil	0.96
R57-96 0-3"	06/03/1996	Soil	3.8
R57-96 21-27"	06/03/1996	Soil	12.7
R57-96 21-27" (Dup)	06/03/1996	Soil	12.9
R58-96 0-3"	06/03/1996	Soil	2.4
R59-96 0-3"	06/04/1996	Soil	6.1
R60-96 0-3"	06/04/1996	Soil	0.98
R61-96 0-3"	06/04/1996	Soil	0.99

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.

Soil and Sediment Radiological Data[a]

Sample Location	Sample Date	Sample Type	K40 (pCi/g)	Pb210 (pCi/g)	Po210 (pCi/g)	Ra226 (pCi/g)	Th230 (pCi/g)	Th232 (pCi/g)	U (mg/kg)	U234 (pCi/g)	U235 (pCi/g)
Down-Gradient - Lower Montezuma Creek											
R61-96 3-9"	06/04/1996	Soil	19.9	2.6	No Data	0.78	1.2	1.6	2.6	0.72	0.05U
R62-96 0-3"	06/04/1996	Soil	19.2	19.1	No Data	23.7	28.8	1.1	18.6	6.5	0.34
R62-96 15-21"	06/04/1996	Soil	20.7	38.8	No Data	52.8	55.7	1.9	38.2	12.5	0.54
R63-96 0-3"	06/04/1996	Soil	17.6	1.9	No Data	1.7	1.8	1.3	2.9	0.94	0.06
R63-96 3-9"	06/04/1996	Soil	17.5	1.4U	No Data	1.1	0.99	1.5	2.6	0.78	0.09
R64-96 0-3"	06/04/1996	Soil	17.7	12.1	No Data	17.8	19.9	1.9	15.6	5.2	0.25
R65-96 0-3"	06/04/1996	Soil	22.4	1.4U	No Data	1.3	1.5	1.2	2.4	0.65	0.06U
R66-96 0-3"	06/04/1996	Soil	19.7	1.4U	No Data	0.90	0.95	1.3	2.4	0.69	0.06U
R67-96 0-3"	06/04/1996	Soil	20.4	6.3	No Data	7.3	9.2	1.6	10.6	3.6	0.22
R67-96 9-15"	06/04/1996	Soil	24.9	27.4	No Data	53.0	54.3	3.0	25.9	8.1	0.47
R68-96 0-3"	06/04/1996	Soil	15.4	1.4U	No Data	1.2	1.3	1.3	2.7	0.87	0.08U
R69-96 0-3"	06/04/1996	Soil	17.7	5.6	No Data	7.1	7.1	1.2	15.5	5.0	0.22
R69-96 15-21"	06/04/1996	Soil	19.7	76.0	No Data	142	142	1.7	66.8	22.9	1.3
R70-96 0-3"	06/04/1996	Soil	20.3	1.9	No Data	0.99	1.4	1.3	5.8	1.9	0.16
R70-96 9-15"	06/04/1996	Soil	21.9	48.3	No Data	68.9	98.5	2.3	36.0	12.1	0.55
R71-96 0-3"	06/04/1996	Soil	21.0	3.0	No Data	2.9	4.0	1.0	4.9	1.7	0.13
R71-96 9-15"	06/04/1996	Soil	16.9	34.1	No Data	40.4	51.0	1.9	30.1	10.2	0.40
R72-96 0-3"	06/04/1996	Soil	17.5	2.0	No Data	1.6	1.9	1.1	3.2	0.98	0.09
R72-96 3-9"	06/04/1996	Soil	21.5	2.2	No Data	3.9	2.7	1.4	4.6	1.6	0.04
R73-96 0-3"	06/04/1996	Soil	18.9	2.4	No Data	1.5	1.8	1.5	3.3	1.1	0.08
R74-96 0-3"	06/04/1996	Soil	19.2	66.7	No Data	120	145	0.99U	83.4	26.4	1.2
R74-96 0-3" (Dup)	06/04/1996	Soil	23.1	60.9	No Data	108	149	2.9	78.4	26.9	1.2
R74-96 3-9"	06/04/1996	Soil	17.1	16.9	No Data	21.6	27.6	1.3	21.0	7.2	0.30
R75-96 0-3"	06/04/1996	Soil	20.6	1.6U	No Data	1.9	2.0	1.6	3.9	1.2	0.09
R75-96 3-9"	06/04/1996	Soil	20.0	3.2	No Data	3.1	3.2	1.2	5.4	1.8	0.10
R76-96 0-3"	06/04/1996	Soil	17.6	1.6U	No Data	1.7	1.7	1.1	3.3	1.1	0.08
R76-96 9-15"	06/04/1996	Soil	22.4	7.7	No Data	13.8	12.5	1.6	8.4	2.8	0.17
R77-96 0-3"	06/04/1996	Soil	19.6	1.5	No Data	2.2	2.2	1.4	4.3	1.2	0.08
R78-96 0-3"	06/04/1996	Soil	23.1	1.4U	No Data	1.0	1.1	1.2	2.8	0.87	0.11
R78-96 3-9"	06/04/1996	Soil	18.3	2.4	No Data	2.4	2.8	1.0	6.2	1.9	0.07
R79-96 0-3"	06/04/1996	Soil	21.1	17.5	No Data	21.8	30.5	1.3	18.3	5.8	0.28
R80-96 0-3"	06/05/1996	Soil	22.4	1.7U	No Data	1.5	2.2	1.2	3.5	1.2	0.07
R80-96 3-9"	06/05/1996	Soil	23.2	2.4	No Data	2.7	3.0	1.3	4.9	1.6	0.06U
R81-96 0-3"	06/05/1996	Soil	19.9	10.1	No Data	15.0	16.0	1.7	15.2	5.1	0.22
R82-96 0-3"	06/05/1996	Soil	16.0	8.6	No Data	10.3	9.6	2.0	17.4	6.0	0.23
R83-96 0-3"	06/05/1996	Soil	21.3	1.5U	No Data	1.4	1.5	1.4	2.9	0.98	0.05
R83-96 3-9"	06/05/1996	Soil	19.4	1.5U	No Data	1.3	1.2	1.4	2.5	0.81	0.05
R84-96 0-3"	06/05/1996	Soil	17.4	45.8	No Data	61.9	77.9	3.6	46.3	14.9	0.67

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Soil and Sediment Radiological Data[a]

Sample Location	Sample Date	Sample Type	U238 (pCi/g)
Down-Gradient - Lower Montezuma Creek			
R61-96 3-9"	06/04/1996	Soil	0.74
R62-96 0-3"	06/04/1996	Soil	6.4
R62-96 15-21"	06/04/1996	Soil	12.5
R63-96 0-3"	06/04/1996	Soil	0.99
R63-96 3-9"	06/04/1996	Soil	0.93
R64-96 0-3"	06/04/1996	Soil	5.1
R65-96 0-3"	06/04/1996	Soil	0.88
R66-96 0-3"	06/04/1996	Soil	0.79
R67-96 0-3"	06/04/1996	Soil	3.7
R67-96 9-15"	06/04/1996	Soil	8.6
R68-96 0-3"	06/04/1996	Soil	0.83
R69-96 0-3"	06/04/1996	Soil	4.9
R69-96 15-21"	06/04/1996	Soil	23.5
R70-96 0-3"	06/04/1996	Soil	2.0
R70-96 9-15"	06/04/1996	Soil	11.9
R71-96 0-3"	06/04/1996	Soil	1.7
R71-96 9-15"	06/04/1996	Soil	10.4
R72-96 0-3"	06/04/1996	Soil	1.0
R72-96 3-9"	06/04/1996	Soil	1.5
R73-96 0-3"	06/04/1996	Soil	1.1
R74-96 0-3"	06/04/1996	Soil	26.5
R74-96 0-3" (Dup)	06/04/1996	Soil	27.6
R74-96 3-9"	06/04/1996	Soil	7.8
R75-96 0-3"	06/04/1996	Soil	1.2
R75-96 3-9"	06/04/1996	Soil	1.7
R76-96 0-3"	06/04/1996	Soil	1.2
R76-96 9-15"	06/04/1996	Soil	2.6
R77-96 0-3"	06/04/1996	Soil	1.5
R78-96 0-3"	06/04/1996	Soil	0.96
R78-96 3-9"	06/04/1996	Soil	2.1
R79-96 0-3"	06/04/1996	Soil	5.8
R80-96 0-3"	06/05/1996	Soil	1.2
R80-96 3-9"	06/05/1996	Soil	1.8
R81-96 0-3"	06/05/1996	Soil	5.3
R82-96 0-3"	06/05/1996	Soil	5.8
R83-96 0-3"	06/05/1996	Soil	1.1
R83-96 3-9"	06/05/1996	Soil	0.86
R84-96 0-3"	06/05/1996	Soil	15.1

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Soil and Sediment Radiological Data[a]

Sample Location	Sample Date	Sample Type	K40 (pCi/g)	Pb210 (pCi/g)	Po210 (pCi/g)	Ra226 (pCi/g)	Th230 (pCi/g)	Th232 (pCi/g)	U (mg/kg)	U234 (pCi/g)	U235 (pCi/g)
Down-Gradient - Lower Montezuma Creek											
R84-96 3-9"	06/05/1996	Soil	19.4	20.6	No Data	31.2	39.1	1.7	26.8	9.9	0.35
R85-96 0-3"	06/05/1996	Soil	17.5	2.5	No Data	1.7	2.1	1.1	3.0	0.96	0.07
R86-96 0-3"	06/05/1996	Soil	18.2	14.6	No Data	16.7	25.5	1.2	12.6	4.3	0.15
R86-96 3-9"	06/05/1996	Soil	20.4	9.9	No Data	12.8	15.3	1.8	10.7	3.8	0.14
R87-96 0-3"	06/05/1996	Soil	21.4	1.5	No Data	1.3	1.4	1.1	4.3	1.4	0.07
R87-96 0-3" (Dup)	06/05/1996	Soil	20.0	1.4U	No Data	1.2	1.2	1.4	3.9	1.2	0.07
R89-96 0-3"	06/05/1996	Soil	21.4	3.1	No Data	2.1	2.3	1.4	5.9	2.0	0.09
R89-96 3-9"	06/05/1996	Soil	17.4	1.7	No Data	2.2	2.6	1.4	4.7	1.5	0.10
R91-96 0-3"	06/05/1996	Soil	16.4	2.5	No Data	1.3	1.5	1.8	3.2	2.4	0.13
SS94-012 0-6"	11/11/1994	Soil	9.5	9.0	No Data	9.0	15.4	0.59U	18.9	No Data	No Data
SS94-012 6-12"	11/11/1994	Soil	1.9U	17.4	No Data	11.4	26.2	0.32U	20.9	No Data	No Data
SS94-012 12-18"	11/11/1994	Soil	2.0U	21.3	No Data	11.0	37.9	0.49U	22.2	No Data	No Data
SS94-012 18-24"	11/11/1994	Soil	2.7U	70.5	No Data	46.2	116	4.8	45.3	No Data	No Data
SS94-013 0-6"	11/11/1994	Soil	2.8U	10.5	No Data	3.9	24.6	0.82U	26.5	No Data	No Data
SS94-013 6-12"	11/11/1994	Soil	3.5U	78.7	No Data	36.7	100	1.3U	25.7	No Data	No Data
SS94-013 12-18"	11/11/1994	Soil	4.3U	113	No Data	60.2	145	1.6U	66.6	No Data	No Data
SS94-013 18-24"	11/11/1994	Soil	4.6U	47.2	No Data	23.9	65.5	0.95U	73.2	No Data	No Data
SS94-014 0-6"	11/11/1994	Soil	18.6	9.7	No Data	3.4	3.0	0.35U	8.5	No Data	No Data
Down-Gradient - Off-Site											
18SD96-01 0-3"	05/23/1996	Sediment	28.9	2.3	No Data	1.1	1.6	1.0	4.9	1.6	0.06U
18SD96-02 0-3"	05/23/1996	Sediment	28.5	2.7	No Data	1.8	1.9	1.6	5.8	2.2	0.08U
18SD96-03 0-3"	05/23/1996	Sediment	30.0	2.6	No Data	1.4	1.7	2.0	4.8	1.7	0.06U
18SD96-04 0-3"	05/23/1996	Sediment	31.9	2.4	No Data	1.6	1.8	1.9	5.5	1.8	0.07U
18SD96-05 0-3"	05/23/1996	Sediment	33.9	3.8	No Data	1.3	1.6	1.9	6.0	1.9	0.08U
18SD96-06 0-3"	05/23/1996	Sediment	31.4	3.4	No Data	1.9	1.7	2.1	5.3	1.8	0.09U
18SD96-07 24-30"	06/05/1996	Sediment	24.0	1.4U	No Data	1.9	1.7	2.0	4.5	1.5	0.09
18SS96-E 0-3"	05/23/1996	Soil	17.2	1.4U	No Data	1.6	2.3	1.3	2.7	0.96	0.04U
18SS96-E 3-24"	05/23/1996	Soil	18.6	1.4U	No Data	1.8	1.8	1.3	2.5	0.90	0.03U
18SS96-W 0-3"	05/23/1996	Soil	17.6	1.4U	No Data	1.9	2.1	1.1	3.1	1.2	0.03U
18SS96-W 3-24"	05/23/1996	Soil	18.9	1.4U	No Data	2.1	2.6	1.1	2.9	1.1	0.04U
19SD96-01 0-3"	05/21/1996	Sediment	31.2	3.0	No Data	2.0	1.6	1.9	4.9	1.8	0.08U
19SS96-E 0-3"	05/21/1996	Soil	17.9	1.6	No Data	1.2	1.3	1.4	2.9	0.98	0.08U
19SS96-E 3-24"	05/21/1996	Soil	16.6	1.8	No Data	1.4	1.2U	1.1	2.6	1.0	0.15U
19SS96-W 0-3"	05/21/1996	Soil	16.8	1.5U	No Data	0.80	1.1	1.3	2.6	0.78	0.08U
19SS96-W 3-24"	05/21/1996	Soil	16.3	1.5U	No Data	1.1	1.5	1.7	4.2	1.4	0.10U
20SD96-01 0-3"	05/23/1996	Sediment	29.2	3.3	No Data	1.3	1.6	2.5	4.5	1.6	0.11U
20SS96-E 0-3"	05/23/1996	Soil	21.1	2.1	No Data	3.7	4.2	1.2	4.5	1.6	0.04U
20SS96-E 3-24"	05/23/1996	Soil	20.5	4.3	No Data	6.6	8.4	1.5	7.2	2.5	0.03U

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.

Soil and Sediment Radiological Data[a]

Sample Location	Sample Date	Sample Type	U238 (pCi/g)
Down-Gradient - Lower Montezuma Creek			
R84-96 3-9"	06/05/1996	Soil	9.4
R85-96 0-3"	06/05/1996	Soil	0.89
R86-96 0-3"	06/05/1996	Soil	4.2
R86-96 3-9"	06/05/1996	Soil	4.0
R87-96 0-3"	06/05/1996	Soil	1.6
R87-96 0-3" (Dup)	06/05/1996	Soil	1.4
R89-96 0-3"	06/05/1996	Soil	1.9
R89-96 3-9"	06/05/1996	Soil	1.7
R91-96 0-3"	06/05/1996	Soil	2.4
SS94-012 0-6"	11/11/1994	Soil	No Data
SS94-012 6-12"	11/11/1994	Soil	No Data
SS94-012 12-18"	11/11/1994	Soil	No Data
SS94-012 18-24"	11/11/1994	Soil	No Data
SS94-013 0-6"	11/11/1994	Soil	No Data
SS94-013 6-12"	11/11/1994	Soil	No Data
SS94-013 12-18"	11/11/1994	Soil	No Data
SS94-013 18-24"	11/11/1994	Soil	No Data
SS94-014 0-6"	11/11/1994	Soil	No Data
Down-Gradient - Off-Site			
18SD96-01 0-3"	05/23/1996	Sediment	1.6
18SD96-02 0-3"	05/23/1996	Sediment	2.1
18SD96-03 0-3"	05/23/1996	Sediment	1.8
18SD96-04 0-3"	05/23/1996	Sediment	2.0
18SD96-05 0-3"	05/23/1996	Sediment	2.3
18SD96-06 0-3"	05/23/1996	Sediment	2.1
18SD96-07 24-30"	06/05/1996	Sediment	1.5
18SS96-E 0-3"	05/23/1996	Soil	1.0
18SS96-E 3-24"	05/23/1996	Soil	0.89
18SS96-W 0-3"	05/23/1996	Soil	1.2
18SS96-W 3-24"	05/23/1996	Soil	1.3
19SD96-01 0-3"	05/21/1996	Sediment	1.8
19SS96-E 0-3"	05/21/1996	Soil	1.0
19SS96-E 3-24"	05/21/1996	Soil	0.90
19SS96-W 0-3"	05/21/1996	Soil	0.93
19SS96-W 3-24"	05/21/1996	Soil	1.3
20SD96-01 0-3"	05/23/1996	Sediment	1.6
20SS96-E 0-3"	05/23/1996	Soil	1.7
20SS96-E 3-24"	05/23/1996	Soil	2.5

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.

Soil and Sediment Radiological Data[a]

Sample Location	Sample Date	Sample Type	K40 (pCi/g)	Pb210 (pCi/g)	Po210 (pCi/g)	Ra226 (pCi/g)	Th230 (pCi/g)	Th232 (pCi/g)	U (mg/kg)	U234 (pCi/g)	U235 (pCi/g)
Down-Gradient - Off-Site											
20SS96-W 0-3"	05/23/1996	Soil	19.8	1.4U	No Data	0.98	1.3	1.3	3.8	1.1	0.04U
20SS96-W 0-3" (Dup)	05/23/1996	Soil	18.8	1.4U	No Data	1.2	1.3	1.4	3.7	1.1	0.04U
20SS96-W 3-24"	05/23/1996	Soil	18.2	1.5U	No Data	1.4	1.4	1.6	4.6	1.6	0.04U

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.

Soil and Sediment Radiological Data[a]

Sample Location	Sample Date	Sample Type	U238 (pCi/g)
Down-Gradient - Off-Site			
20SS96-W 0-3"	05/23/1996	Soil	1.2
20SS96-W 0-3" (Dup)	05/23/1996	Soil	1.2
20SS96-W 3-24"	05/23/1996	Soil	1.6

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.

Appendix C–5

Biota Data

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Biota Metals Data[a]

Sample Location	Sample Date	Al (mg/kg)	As (mg/kg)	Co (mg/kg)	Cu (mg/kg)	Mn (mg/kg)	Mo (mg/kg)	Pb (mg/kg)	Se (mg/kg)	U (mg/kg)
Reference - Vega Forbs										
13FB95-01	08/30/1995	152	0.30J	0.12J	4.3	No Data	0.46J	No Data	0.29	0.06
Reference - Verdure Forbs										
10FB95-01	08/30/1995	102	0.22J	0.08J	3.1	No Data	0.72J	No Data	0.33	0.05U
11FB95-01	08/30/1995	39.2	0.27J	0.07J	4.4	No Data	0.59J	No Data	0.40	0.05U
11FB95-01 (Dup)	08/31/1995	54.1	0.38J	0.06J	3.2	No Data	0.91J	No Data	0.34	0.05U
12FB95-01	08/30/1995	31.1	0.14J	0.06J	15.5	No Data	2.5	No Data	0.19U	0.05U
14FB96-01	06/12/1996	43.8J	0.10R	0.12U	2.1	8.2	1.6J	0.14J	0.06U	0.11
15FB96-01	06/12/1996	37.3J	0.12R	0.14U	2.0	8.8	0.82J	0.33J	0.09J	0.33
16FB96-01	06/12/1996	63.7J	0.12R	0.15U	2.0	9.3	0.72J	0.85J	0.09J	0.18
Upper Montezuma Creek Forbs										
01FB95-01	09/01/1995	12.8	0.19J	0.05U	4.0	No Data	1.4	No Data	0.91	0.07
02FB95-01	09/01/1995	20.2	0.13U	0.05J	2.6U	No Data	2.1	No Data	0.51	0.06
03FB95-01	09/01/1995	35.4	0.14U	0.12J	3.2	No Data	1.8	No Data	0.23	0.13
04FB95-01	09/01/1995	18.0	0.24U	0.08U	4.3	No Data	0.21J	No Data	0.41	0.08U
05FB95-01	08/31/1995	333	0.29J	0.20J	4.1	No Data	0.33J	No Data	0.38	0.08
05FB95-01 (Dup)	08/31/1995	419	0.25J	0.20J	3.8	No Data	0.28J	No Data	0.26	0.05U
21FB96-01	06/12/1996	35.5J	0.07R	0.08U	0.96	11.0	0.21J	0.08UJ	0.04U	0.17
22FB96-01	06/13/1996	58.1	0.07R	0.09U	1.5	10.0	0.28J	0.11	0.09J	0.42
23FB96-01	06/13/1996	42.3	0.08J	0.07U	1.4	9.9	0.23J	0.08	0.17J	0.15
Middle Montezuma Creek Forbs										
24FB96-01	06/13/1996	130J	0.15R	0.17U	3.4	15.6	0.31J	0.19J	0.39	0.13J
24FB96-01 (Dup)	06/13/1996	90.7J	0.14R	0.16U	3.1	14.9	0.30J	0.14J	0.56J	0.12J
25FB96-01	06/13/1996	49.9J	0.09R	0.10U	2.2	8.8	0.58J	0.16J	0.49J	0.17
Lower Montezuma Creek Forbs										
06FB95-01	08/31/1995	608	0.60J	0.35J	5.4	No Data	0.95	No Data	0.48	0.29
07FB95-01	08/31/1995	51.8	1.5	0.06J	2.9	No Data	0.28J	No Data	0.40	0.13
08FB95-01	08/31/1995	365	0.33J	0.23J	3.3	No Data	0.24J	No Data	0.19U	0.15
09FB95-01	08/31/1995	208	0.25J	0.17J	3.0	No Data	1.4	No Data	0.20	0.56
Reference - Vega Grasses										
13GS95-01	08/30/1995	300	0.60J	0.19J	2.1	No Data	0.29J	No Data	0.24	0.05U
Reference - Verdure Grasses										
10GS95-01	08/30/1995	204	0.72J	0.19J	2.3	No Data	2.0	No Data	0.34	0.05U
11GS95-01	08/30/1995	17.3	0.72J	0.13J	2.8	No Data	1.1	No Data	0.41	0.05U
11GS95-01 (Dup)	08/31/1995	131	1.0	0.21J	2.7	No Data	0.83J	No Data	0.25	0.05U
12GS95-01	08/30/1995	35.3	0.88J	0.14J	2.9	No Data	1.5	No Data	0.42	0.05U
14GS96-01	06/12/1996	17.0J	0.13R	0.16U	1.2J	138	0.61J	0.11UJ	0.08U	0.08J
15GS96-01	06/12/1996	33.4J	0.13R	0.16U	1.5	15.2	0.46J	0.27J	0.10J	0.10J
16GS96-01	06/12/1996	59.0J	0.13R	0.15U	1.1J	63.3	0.31J	3.1J	0.08U	0.07J

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Biota Metals Data[a]

Sample Location	Sample Date	V (mg/kg)	Zn (mg/kg)
Reference - Vega Forbs			
13FB95-01	08/30/1995	0.20U	13.5J
Reference - Verdure Forbs			
10FB95-01	08/30/1995	0.23J	11.4J
11FB95-01	08/30/1995	0.19U	11.0J
11FB95-01 (Dup)	08/31/1995	0.19U	11.4J
12FB95-01	08/30/1995	0.19U	17.6J
14FB96-01	06/12/1996	0.14U	6.9J
15FB96-01	06/12/1996	0.16U	8.0J
16FB96-01	06/12/1996	0.17U	7.3J
Upper Montezuma Creek Forbs			
01FB95-01	09/01/1995	0.18U	14.1J
02FB95-01	09/01/1995	0.17U	14.9J
03FB95-01	09/01/1995	0.58J	16.0J
04FB95-01	09/01/1995	0.33U	5.2J
05FB95-01	08/31/1995	0.81J	11.0J
05FB95-01 (Dup)	08/31/1995	0.88J	12.9J
21FB96-01	06/12/1996	0.09U	3.5J
22FB96-01	06/13/1996	0.38J	4.9
23FB96-01	06/13/1996	0.17J	3.9
Middle Montezuma Creek Forbs			
24FB96-01	06/13/1996	0.42J	10.2J
24FB96-01 (Dup)	06/13/1996	0.22J	10.0J
25FB96-01	06/13/1996	0.13J	7.3J
Lower Montezuma Creek Forbs			
06FB95-01	08/31/1995	2.9	13.6J
07FB95-01	08/31/1995	0.18U	12.3J
08FB95-01	08/31/1995	0.77J	13.7J
09FB95-01	08/31/1995	0.67J	11.1J
Reference - Vega Grasses			
13GS95-01	08/30/1995	0.54J	7.9UJ
Reference - Verdure Grasses			
10GS95-01	08/30/1995	0.57J	9.6UJ
11GS95-01	08/30/1995	0.19U	11.7J
11GS95-01 (Dup)	08/31/1995	0.33J	15.2J
12GS95-01	08/30/1995	0.20J	13.6J
14GS96-01	06/12/1996	0.18U	5.2J
15GS96-01	06/12/1996	0.18U	8.8J
16GS96-01	06/12/1996	0.18U	7.6J

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Biota Metals Data[a]

Sample Location	Sample Date	Al (mg/kg)	As (mg/kg)	Co (mg/kg)	Cu (mg/kg)	Mn (mg/kg)	Mo (mg/kg)	Pb (mg/kg)	Se (mg/kg)	U (mg/kg)
Upper Montezuma Creek Grasses										
01GS95-01	09/01/1995	23.5	0.71J	0.09J	3.2	No Data	1.2	No Data	0.95	0.21J
02GS95-01	09/01/1995	9.4	0.62J	0.05U	5.1	No Data	1.8	No Data	0.42	0.05U
03GS95-01	09/01/1995	22.5	0.72J	0.08J	3.5	No Data	1.5	No Data	1.0	0.18J
04GS95-01	09/01/1995	39.4	0.46J	0.06J	4.1	No Data	0.74J	No Data	0.32	0.26J
05GS95-01	08/31/1995	184	0.95J	0.19J	6.5	No Data	1.3	No Data	0.40	0.05U
05GS95-01 (Dup)	08/31/1995	191	0.53J	0.15J	2.8	No Data	1.5	No Data	0.41	0.05U
21GS96-01	06/12/1996	108J	0.23R	0.27U	3.1	73.3	0.52J	0.25J	0.14U	0.39
22GS96-01	06/13/1996	52.2	0.16R	0.19U	2.6	32.6	0.37J	0.60	0.13J	0.44
23GS96-01	06/13/1996	50.4	0.14R	0.16U	2.1	24.6	0.32J	0.10J	0.22J	0.15
Middle Montezuma Creek Grasses										
24GS96-01	06/13/1996	96.6J	0.16R	0.18U	2.2	29.8	0.29J	0.19J	0.76J	0.32
24GS96-01 (Dup)	06/13/1996	158	0.17R	0.20U	2.1	31.8	0.31J	0.21	0.40	0.34
25GS96-01	06/13/1996	131J	0.16R	0.19U	2.0	20.4	0.53J	0.25J	0.51J	0.17
Lower Montezuma Creek Grasses										
06GS95-01	08/31/1995	154	0.57J	0.12J	3.0	No Data	1.8	No Data	0.77	0.05U
07GS95-01	08/31/1995	59.8	0.49J	0.07J	2.6	No Data	0.34J	No Data	0.91	0.05U
08GS95-01	08/31/1995	313	0.88J	0.25J	2.3	No Data	2.0	No Data	0.55	0.08J
09GS95-01	08/31/1995	187	0.61J	0.12J	34.9	No Data	0.75J	No Data	0.36	0.35J
Reference - Vega Shrubs										
13SH95-01	08/30/1995	32.7	0.61J	0.05J	3.8	No Data	0.11J	No Data	0.36	0.05U
Reference - Verdure Shrubs										
10SH95-01	08/30/1995	14.5	0.40J	0.12J	4.4	No Data	0.25J	No Data	0.27	0.05U
11SH95-01	08/30/1995	9.6	0.55J	0.09J	3.7	No Data	0.77J	No Data	0.32	0.05U
11SH95-01 (Dup)	08/31/1995	7.3	0.47J	0.12J	3.8	No Data	0.19J	No Data	0.41	0.05U
12SH95-01	08/30/1995	19.1	0.56J	0.06J	3.1	No Data	0.31J	No Data	0.27	0.05U
14SH96-01	06/12/1996	43.5J	0.20R	0.24U	3.4	32.4	0.36J	0.29J	0.12UJ	0.10J
15SH96-01	06/12/1996	53.1J	0.20R	0.23U	2.8	29.7	0.27J	0.47J	0.12U	0.34
16SH96-01	06/12/1996	31.4J	0.19R	0.22U	2.1	48.2	0.13U	0.52J	0.11U	0.14J
Upper Montezuma Creek Shrubs										
01SH95-01	09/01/1995	9.9	0.50J	0.05U	3.1	No Data	0.25J	No Data	0.39	0.30J
02SH95-01	09/01/1995	8.6	0.52J	0.06J	3.2	No Data	0.21J	No Data	0.32	0.05U
03SH95-01	09/01/1995	15.9	0.67J	0.08J	5.3	No Data	0.45J	No Data	0.72	0.23J
04SH95-01	09/01/1995	16.6	0.53J	0.10J	2.5	No Data	0.20J	No Data	0.50	0.48J
05SH95-01	08/31/1995	19.8	0.54J	0.05J	2.8	No Data	0.18J	No Data	0.47	0.05U
05SH95-01 (Dup)	08/31/1995	117	0.67J	0.14J	5.0	No Data	0.24J	No Data	0.34	0.05U
21SH96-01	06/12/1996	33.5J	0.17R	0.20U	2.0	62.7	0.12U	0.18J	0.11UJ	0.20
22SH96-01	06/13/1996	30.7	0.17R	0.21U	2.2	32.5	0.12J	0.09J	0.31	0.25
23SH96-01	06/13/1996	31.3	0.13R	0.15U	1.3	31.3	0.09J	0.16J	0.22	0.09U

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Biota Metals Data[a]

Sample Location	Sample Date	V (mg/kg)	Zn (mg/kg)
Upper Montezuma Creek Grasses			
01GS95-01	09/01/1995	2.3	10.9J
02GS95-01	09/01/1995	0.19U	11.2J
03GS95-01	09/01/1995	2.3	11.3J
04GS95-01	09/01/1995	0.32J	13.3J
05GS95-01	08/31/1995	0.59J	14.2J
05GS95-01 (Dup)	08/31/1995	0.49J	9.7UJ
21GS96-01	06/12/1996	0.32U	12.7J
22GS96-01	06/13/1996	0.22U	10.5
23GS96-01	06/13/1996	0.19U	7.9
Middle Montezuma Creek Grasses			
24GS96-01	06/13/1996	0.46J	8.4J
24GS96-01 (Dup)	06/13/1996	0.81J	8.7
25GS96-01	06/13/1996	0.22U	6.8J
Lower Montezuma Creek Grasses			
06GS95-01	08/31/1995	0.67J	7.8UJ
07GS95-01	08/31/1995	0.23J	16.9J
08GS95-01	08/31/1995	0.88J	9.4UJ
09GS95-01	08/31/1995	0.42J	25.6J
Reference - Vega Shrubs			
13SH95-01	08/30/1995	0.20U	20.6
Reference - Verdure Shrubs			
10SH95-01	08/30/1995	0.20U	37.2
11SH95-01	08/30/1995	0.30J	48.9
11SH95-01 (Dup)	08/31/1995	0.20U	24.4
12SH95-01	08/30/1995	0.20U	20.9
14SH96-01	06/12/1996	0.28U	39.5J
15SH96-01	06/12/1996	0.27U	27.8J
16SH96-01	06/12/1996	0.26U	29.8J
Upper Montezuma Creek Shrubs			
01SH95-01	09/01/1995	0.20U	19.7
02SH95-01	09/01/1995	0.19U	19.3
03SH95-01	09/01/1995	0.19U	50.8
04SH95-01	09/01/1995	0.20U	64.7
05SH95-01	08/31/1995	0.20U	11.9
05SH95-01 (Dup)	08/31/1995	0.41J	14.7
21SH96-01	06/12/1996	0.24U	40.7J
22SH96-01	06/13/1996	0.24U	61.7
23SH96-01	06/13/1996	0.18U	32.8

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Biota Metals Data[a]

Sample Location	Sample Date	Al (mg/kg)	As (mg/kg)	Co (mg/kg)	Cu (mg/kg)	Mn (mg/kg)	Mo (mg/kg)	Pb (mg/kg)	Se (mg/kg)	U (mg/kg)
Middle Montezuma Creek Shrubs										
24SH96-01	06/13/1996	28.1J	0.19R	0.22U	3.2	21.2	0.14U	0.14J	0.33	0.11J
24SH96-01 (Dup)	06/13/1996	28.4J	0.18R	0.22U	3.1	18.8	0.14U	0.16J	0.32J	0.14J
25SH96-01	06/13/1996	25.0J	0.17R	0.21U	2.3	20.5	0.12U	0.54J	0.25J	0.18
Lower Montezuma Creek Shrubs										
06SH95-01	08/31/1995	14.6	0.54J	0.05U	4.0	No Data	0.36J	No Data	0.76	0.05U
07SH95-01	08/31/1995	45.6	0.46J	0.05U	2.9	No Data	0.14J	No Data	0.27	0.05U
08SH95-01	08/31/1995	25.5	0.49J	0.05J	3.2	No Data	0.21J	No Data	0.32	0.05U
09SH95-01	08/31/1995	53.6	0.61J	0.05J	3.4	No Data	0.19J	No Data	0.44	0.07J
Reference - West of 191 Aquatic macroinvert.[b]										
MZG-1	08/15/1996	No Data	.85	.8	3.2	No Data	.34	1.02	.78U	.1
MZG-2	08/15/1996	No Data	.72	.66	2.9	No Data	.35	.75	1.11	.12
MZG-3	08/15/1996	No Data	.71	.64	2.9	No Data	.36	.74	1.08	.07
MZUG-1	08/15/1996	No Data	.6	.64	2.7	No Data	.28	.5	1.11	.09
MZUG-2	08/15/1996	No Data	.62	.86	2.4	No Data	.26	.71	1.03	.1
MZUG-3	08/15/1996	No Data	.6	.78	2.7	No Data	.27	.67	1.06	.09
Reference - Verdure Aquatic macroinvert.[b]										
VD-1 A	08/17/1995	545.99	.5U	.45	3.56	No Data	.28	.23	1.02U	.05U
VD-1 B	08/17/1995	573.76	.55U	.53	3.11	No Data	.26	.29	1.1U	.06U
VD-1-1	08/15/1996	No Data	.92	1.39	3.4	No Data	.58	.65	1.48	.13
VD-1-2	08/15/1996	No Data	1.2	1.44	3.4	No Data	1.03	.6	1.78	.11
VD-1-3	08/15/1996	No Data	.86	1.63	3.3	No Data	1.05	.75	1.54	.12
Upper Montezuma Creek Aquatic macroinvert.[b]										
MZ-2 A	08/17/1995	608.56	.95	.86	2.68	No Data	.64	.47	1.65	.48
MZ-2 B	08/17/1995	610.85	.59	.68	2.79	No Data	.59	.44	1.47	.49
MZ-2 C	08/17/1995	506.41	.56	.35	2.53	No Data	.64	.32	1.11	.54
MZ-2-1	08/14/1996	No Data	1.24	1.48	3.6	No Data	1.81	.63	1.39	.96
MZ-2-2	08/14/1996	No Data	1.35	1.28	3.2	No Data	2.02	.62	1.6	.79
MZ-2-3	08/14/1996	No Data	2.18	1.31	3	No Data	1.36	1	1.72	.87
MZ-3 A	08/17/1995	618.29	.87	.46	2.38	No Data	.54	.35	.98	.51
MZ-3 B	08/17/1995	512	.8	.27	2.24	No Data	.35	.35	1.15	.42
MZ-3 C	08/17/1995	564.74	1.05	.46	2.59	No Data	.46	.38	1.13	.46
MZ-3-1	08/14/1996	No Data	1.54	.74	3	No Data	.84	.44	1.16	1.05
MZ-3-2	08/14/1996	No Data	1.63	1.01	3.1	No Data	1.04	.47	1.48	1.78
MZ-3-3	08/14/1996	No Data	1.5	1.2	2.9	No Data	1.32	.48	1.13	1.08
MZ-5 A	08/17/1995	939.6	.54	.69	2.71	No Data	.33	.49	.94	.63
Lower Montezuma Creek Aquatic macroinvert.[b]										
MZ-9 A	08/17/1995	982.1	.57U	.42	5.16	No Data	.25	.47	1.11U	.42
MZ-9 B	08/17/1995	742.72	.95	.35	4.64	No Data	.23	.35	1.09U	.3

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[b]All results at these locations are unvalidated.

Biota Metals Data[a]

Sample Location	Sample Date	V (mg/kg)	Zn (mg/kg)
Middle Montezuma Creek Shrubs			
24SH96-01	06/13/1996	0.26U	36.5J
24SH96-01 (Dup)	06/13/1996	0.25U	34.9J
25SH96-01	06/13/1996	0.24U	29.4J
Lower Montezuma Creek Shrubs			
06SH95-01	08/31/1995	0.20U	16.4
07SH95-01	08/31/1995	0.20U	10
08SH95-01	08/31/1995	0.20U	13.5
09SH95-01	08/31/1995	0.21J	11.0
Reference - West of 191 Aquatic macroinvert.[b]			
MZG-1	08/15/1996	3.9	27
MZG-2	08/15/1996	2.6	24
MZG-3	08/15/1996	2.1	24
MZUG-1	08/15/1996	1.7	17
MZUG-2	08/15/1996	2.6	16
MZUG-3	08/15/1996	2.8	16
Reference - Verdure Aquatic macroinvert.[b]			
VD-1 A	08/17/1995	4.04	26.11
VD-1 B	08/17/1995	4.78	26.3
VD-1-1	08/15/1996	3.4	22
VD-1-2	08/15/1996	3.4	21
VD-1-3	08/15/1996	3.5	21
Upper Montezuma Creek Aquatic macroinvert.[b]			
MZ-2 A	08/17/1995	4.65	25.06
MZ-2 B	08/17/1995	5.76	22.69
MZ-2 C	08/17/1995	5.91	18.57
MZ-2-1	08/14/1996	7.8	18
MZ-2-2	08/14/1996	8.7	17
MZ-2-3	08/14/1996	11.9	16
MZ-3 A	08/17/1995	7.61	17.44
MZ-3 B	08/17/1995	7.36	16
MZ-3 C	08/17/1995	6.87	16.79
MZ-3-1	08/14/1996	6.2	16
MZ-3-2	08/14/1996	6.2	16
MZ-3-3	08/14/1996	6.3	15
MZ-5 A	08/17/1995	5.78	18.07
Lower Montezuma Creek Aquatic macroinvert.[b]			
MZ-9 A	08/17/1995	4.67	22.1
MZ-9 B	08/17/1995	5.34	22.05

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[b]All results at these locations are unvalidated.

Biota Metals Data[a]

Sample Location	Sample Date	Al (mg/kg)	As (mg/kg)	Co (mg/kg)	Cu (mg/kg)	Mn (mg/kg)	Mo (mg/kg)	Pb (mg/kg)	Se (mg/kg)	U (mg/kg)
Lower Montezuma Creek Aquatic macroinvert.[b]										
MZ-9-1	08/14/1996	No Data	.76	.65	2.6	No Data	.56	.59	.99	.96
MZ-9-2	08/14/1996	No Data	.74	.63	3.2	No Data	.56	.66	1.06	.74
MZ-9-3	08/14/1996	No Data	.71	.64	2.8	No Data	.59	.51	1.05	.92
Reference - Verdure Non-flying invert.										
14TI96-01	07/11/1996	340J	0.23J	0.37U	16.4J	39.9J	0.52J	0.63J	0.76J	0.44J
15TI96-01	07/11/1996	199J	0.31J	0.38U	22.1J	28.4J	0.48J	0.43J	0.46	0.62J
16TI96-01	07/11/1996	554J	0.60J	0.37U	11.7J	44.8J	0.54J	0.68J	1.2J	0.54J
Upper Montezuma Creek Non-flying invert.										
21TI96-01	07/11/1996	651J	18.1J	0.47U	23.5J	39.2J	0.48J	29.7J	1.0	4.9J
21TI96-01 (Dup)	07/11/1996	332J	0.17R	0.34U	17.5J	32.2J	0.55J	0.72J	0.85	1.0J
22TI96-01	07/11/1996	540J	3.1	1.9U	41.5J	68.6J	1.9U	1.4	2.8J	4.9J
23TI96-01	07/11/1996	559J	0.46J	0.52U	43.7J	60.4J	0.44J	1.3J	1.1	2.8J
Middle Montezuma Creek Non-flying invert.										
24TI96-01	07/11/1996	226J	0.83J	0.36U	16.0J	41.5J	0.35J	1.3J	0.97J	1.3J
25TI96-01	07/11/1996	280J	0.79R	0.22U	12.8J	43.2J	0.46J	1.0J	0.81	0.53J
Reference - Verdure Flying invert.										
03FI96-01	07/11/1996	426J	0.85R	0.21U	9.3J	31.5J	0.30J	1.5J	1.5J	0.57J
Montezuma Canyon Flying invert.										
01FI96-01	07/11/1996	360J	0.86R	0.40U	11.9J	36.5J	0.27J	1.4J	0.82J	1.5J
01FI96-01 (Dup)	07/11/1996	179J	0.88R	0.38U	11.0J	34.4J	0.35J	1.5J	1.1	2.7J
Reference - Verdure F & NF invert.										
10TI95-01	09/11/1995	85.1	0.40J	0.12J	9.9J	No Data	0.42J	No Data	0.26	0.05U
10TI95-01 (Dup)	09/13/1995	27.0	0.42J	0.06J	11.3J	No Data	0.38J	No Data	0.30	0.05U
11TI95-01	09/11/1995	24.7	0.43J	0.08J	12.9J	No Data	0.46J	No Data	0.27	0.05U
12TI95-01	09/11/1995	18.0	0.34J	0.08J	9.6J	No Data	0.60J	No Data	0.20U	0.05U
Upper Montezuma Creek F & NF invert.										
01TI95-01	09/13/1995	31.2	0.44J	0.08J	11.3J	No Data	0.42J	No Data	0.48	0.05U
02TI95-01	09/13/1995	16.9	0.35J	0.05U	14.0J	No Data	0.36J	No Data	0.41	0.06
03TI95-01	09/13/1995	18.4	0.35J	0.05J	19.1J	No Data	0.48J	No Data	0.54	0.05U
04TI95-01	09/13/1995	12.9	0.37J	0.05J	11.9J	No Data	0.36J	No Data	0.59	0.05U
04TI95-01 (Dup)	09/13/1995	6.1U	0.42J	0.05U	12.9J	No Data	0.27J	No Data	0.55	0.05U
05TI95-01	09/12/1995	103	0.63J	0.25J	13.9J	No Data	0.51J	No Data	1.8	0.05U
Lower Montezuma Creek F & NF invert.										
06TI95-01	09/12/1995	503	0.85J	0.49J	10.2J	No Data	0.45J	No Data	2.9	0.13
07TI95-01	09/12/1995	18.1	0.37J	0.07J	10.4J	No Data	0.83J	No Data	0.33	0.05U
08TI95-01	09/12/1995	183	0.80J	0.38J	9.3J	No Data	0.38J	No Data	2.4	0.09
09TI95-01	09/12/1995	30.2	0.43J	0.07J	14.9J	No Data	0.54J	No Data	0.33	0.05U

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]All results at these locations are unvalidated.

Biota Metals Data[a]

Sample Location	Sample Date	V (mg/kg)	Zn (mg/kg)
Lower Montezuma Creek Aquatic macroinvert.[b]			
MZ-9-1	08/14/1996	2.7	14
MZ-9-2	08/14/1996	2.9	16
MZ-9-3	08/14/1996	2.9	15
Reference - Verdure Non-flying invert.			
14TI96-01	07/11/1996	0.81J	61.5J
15TI96-01	07/11/1996	0.54J	50.3J
16TI96-01	07/11/1996	1.1J	57.5J
Upper Montezuma Creek Non-flying invert.			
21TI96-01	07/11/1996	5.0	62.2J
21TI96-01 (Dup)	07/11/1996	1.5J	54.2J
22TI96-01	07/11/1996	3.9J	91.4J
23TI96-01	07/11/1996	2.1	73.5J
Middle Montezuma Creek Non-flying invert.			
24TI96-01	07/11/1996	1.2J	64.1J
25TI96-01	07/11/1996	0.96J	56.5J
Reference - Verdure Flying invert.			
03FI96-01	07/11/1996	1.2J	47.2J
Montezuma Canyon Flying invert.			
01FI96-01	07/11/1996	1.6J	62.0J
01FI96-01 (Dup)	07/11/1996	1.4J	59.0J
Reference - Verdure F & NF invert.			
10TI95-01	09/11/1995	0.19U	42.6J
10TI95-01 (Dup)	09/13/1995	0.20U	48.3J
11TI95-01	09/11/1995	0.19U	50.5J
12TI95-01	09/11/1995	0.20U	46.9J
Upper Montezuma Creek F & NF invert.			
01TI95-01	09/13/1995	0.20U	46.7J
02TI95-01	09/13/1995	0.26J	50.5J
03TI95-01	09/13/1995	0.20J	52.5J
04TI95-01	09/13/1995	0.19U	47.0J
04TI95-01 (Dup)	09/13/1995	0.20U	46.0J
05TI95-01	09/12/1995	0.20U	50.4J
Lower Montezuma Creek F & NF invert.			
06TI95-01	09/12/1995	1.6	54.1J
07TI95-01	09/12/1995	0.20U	44.4J
08TI95-01	09/12/1995	0.56J	47.5J
09TI95-01	09/12/1995	0.20U	50.8J

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[b]All results at these locations are unvalidated.

Biota Metals Data[a]

Sample Location	Sample Date	Al (mg/kg)	As (mg/kg)	Co (mg/kg)	Cu (mg/kg)	Mn (mg/kg)	Mo (mg/kg)	Pb (mg/kg)	Se (mg/kg)	U (mg/kg)
Reference - Vega Swallow carcass										
13CS95-01	08/03/1995	15.9	0.25J	0.05U	2.3	No Data	0.10U	No Data	1.0	0.05U
13CS95-01	08/03/1995	17.5	0.33J	0.05U	2.8	No Data	0.10U	No Data	0.98	0.05U
13CS95-01	08/03/1995	13.4	0.38J	0.05U	2.5	No Data	0.10U	No Data	0.93	0.05U
Upper Montezuma Creek Swallow carcass										
05CS95-01	07/11/1995	15.7	0.32J	0.05U	2.3	No Data	0.10U	No Data	1.3	0.05U
05CS95-01	07/11/1995	11.6	0.39J	0.05U	2.2	No Data	0.10U	No Data	1.8	0.05U
05CS95-01	07/11/1995	14.0	0.33J	0.05U	2.6	No Data	0.10U	No Data	1.7	0.05U
Other Swallow carcass										
BLM Compound	07/27/1995	16.1	0.40J	0.05U	2.0	No Data	0.10U	No Data	1.3	0.09J
BLM Compound	07/27/1995	11.7	0.23J	0.05U	2.2	No Data	0.10U	No Data	1.3	0.07J
BLM Compound	07/27/1995	14.2	0.36J	0.05U	2.1	No Data	0.10U	No Data	1.1	0.05J
Reference - Vega Swallow liver										
13CS95-01	08/03/1995	1.3U	0.22J	0.05U	3.4	No Data	0.49J	No Data	1.3	0.05U
Upper Montezuma Creek Swallow liver										
05CS95-01	07/11/1995	2.3U	0.33J	0.05U	6.0	No Data	0.81J	No Data	1.7	0.05U
Other Swallow liver										
BLM Compound	07/27/1995	2.9U	0.27J	0.05U	8.5	No Data	0.56J	No Data	1.6	0.05U

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Biota Metals Data[a]

Sample Location	Sample Date	V (mg/kg)	Zn (mg/kg)
Reference - Vega Swallow carcass			
13CS95-01	08/03/1995	0.20U	29.1
13CS95-01	08/03/1995	0.20U	25.7
13CS95-01	08/03/1995	0.20U	26.8
Upper Montezuma Creek Swallow carcass			
05CS95-01	07/11/1995	0.19U	30.9
05CS95-01	07/11/1995	0.19U	33.9
05CS95-01	07/11/1995	0.19U	30.8
Other Swallow carcass			
BLM Compound	07/27/1995	0.20U	30.8
BLM Compound	07/27/1995	0.20U	33.6
BLM Compound	07/27/1995	0.20U	32.2
Reference - Vega Swallow liver			
13CS95-01	08/03/1995	0.19U	20.3
Upper Montezuma Creek Swallow liver			
05CS95-01	07/11/1995	0.20U	27.9
Other Swallow liver			
BLM Compound	07/27/1995	0.19U	32.7

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Biota Metals Data[a]

Sample Location	Sample Date	Alpha (pCi/g)	Beta (pCi/g)	Gamma (pCi/g)	Pb210 (pCi/g)	Ra226 (pCi/g)	Th230 (pCi/g)	U234 (pCi/g)	U235 (pCi/g)	U238 (pCi/g)
Reference - Vega Forbs										
13FB95-01	08/30/1995	0.30U	7.1	No Data	No Data	No Data	No Data	No Data	0.60	No Data
Reference - Verdure Forbs										
10FB95-01	08/30/1995	0.38U	7.2	No Data	No Data	No Data	No Data	No Data	0.36	No Data
11FB95-01	08/30/1995	0.30U	6.0	No Data	No Data	No Data	No Data	No Data	0.62	No Data
11FB95-01 (Dup)	08/31/1995	0.25U	5.3	No Data	No Data	No Data	No Data	No Data	0.44	No Data
12FB95-01	08/30/1995	0.24U	4.5	No Data	No Data	No Data	No Data	No Data	0.43	No Data
14FB96-01	06/12/1996	0.33U	4.0	6.6	0.2U	0.03U	0.02U	0.02U	0.02U	0.01U
15FB96-01	06/12/1996	0.45U	4.7	7.3	0.2U	0.03U	0.02U	0.12	0.02U	0.12
16FB96-01	06/12/1996	0.67	5.0	7.3	0.2U	0.04U	0.02U	0.08	0.02U	0.02U
Upper Montezuma Creek Forbs										
01FB95-01	09/01/1995	0.42	6.7	No Data	No Data	No Data	No Data	No Data	0.64	No Data
02FB95-01	09/01/1995	0.23U	7.1	No Data	No Data	No Data	No Data	No Data	0.63	No Data
03FB95-01	09/01/1995	1.1	6.3	No Data	No Data	No Data	No Data	No Data	0.42	No Data-
04FB95-01	09/01/1995	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
05FB95-01	08/31/1995	1.2	9.1	No Data	No Data	No Data	No Data	No Data	0.69	No Data
05FB95-01 (Dup)	08/31/1995	1.4	8.0	No Data	No Data	No Data	No Data	No Data	0.52	No Data
21FB96-01	06/12/1996	0.29U	3.3	5.8	0.1U	0.06	0.01U	0.05	0.01U	0.01U
22FB96-01	06/13/1996	1.3	4.3	7.3	0.2	0.21	0.06	0.13	0.01U	0.16
23FB96-01	06/13/1996	0.91	4.5	8.2	0.2	0.14	0.03	0.05	0.01U	0.05
Middle Montezuma Creek Forbs										
24FB96-01	06/13/1996	0.67U	5.7	9.4	0.2	0.11	0.02U	0.03U	0.03U	0.02U
24FB96-01 (Dup)	06/13/1996	0.71	5.5	9.0	0.2	0.04U	0.02U	0.03U	0.03U	0.02U
25FB96-01	06/13/1996	0.40U	3.8	6.5	0.2	0.10	0.01U	0.02U	0.01U	0.07
Lower Montezuma Creek Forbs										
06FB95-01	08/31/1995	6.3	10.0	No Data	No Data	No Data	No Data	No Data	0.59	No Data
07FB95-01	08/31/1995	0.32U	6.4	No Data	No Data	No Data	No Data	No Data	0.44	No Data
08FB95-01	08/31/1995	1.5	9.9	No Data	No Data	No Data	No Data	No Data	0.53	No Data
09FB95-01	08/31/1995	0.43	5.8	No Data	No Data	No Data	No Data	No Data	0.68	No Data
Reference - Vega Grasses										
13GS95-01	08/30/1995	0.45U	5.1	No Data	No Data	No Data	No Data	No Data	0.81	No Data
Reference - Verdure Grasses										
10GS95-01	08/30/1995	0.49U	7.3	No Data	No Data	No Data	No Data	No Data	0.92	No Data
11GS95-01	08/30/1995	0.37U	5.4	No Data	No Data	No Data	No Data	No Data	0.61	No Data
11GS95-01 (Dup)	08/31/1995	0.43U	5.3	No Data	No Data	No Data	No Data	No Data	0.75	No Data
12GS95-01	08/30/1995	0.52U	3.8	No Data	No Data	No Data	No Data	No Data	1.7	No Data
14GS96-01	06/12/1996	0.38U	5.5	8.4	0.2U	0.03U	0.02U	0.03U	0.02U	0.03U
15GS96-01	06/12/1996	0.59U	6.7	10.5	0.2U	0.04U	0.02U	0.03U	0.03U	0.02U
16GS96-01	06/12/1996	0.54U	5.9	8.3	0.2	0.03U	0.03U	0.03U	0.03U	0.02U

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Biota Metals Data[a]

Sample Location	Sample Date	Alpha (pCi/g)	Beta (pCi/g)	Gamma (pCi/g)	Pb210 (pCi/g)	Ra226 (pCi/g)	Th230 (pCi/g)	U234 (pCi/g)	U235 (pCi/g)	U238 (pCi/g)
Upper Montezuma Creek Grasses										
01GS95-01	09/01/1995	0.99	4.8	No Data	No Data	No Data	No Data	No Data	0.65	No Data
02GS95-01	09/01/1995	0.51U	7.1	No Data	No Data	No Data	No Data	No Data	0.90	No Data
03GS95-01	09/01/1995	1.9	5.7	No Data	No Data	No Data	No Data	No Data	0.61	No Data
04GS95-01	09/01/1995	1.3	6.0	No Data	No Data	No Data	No Data	No Data	0.75	No Data
05GS95-01	08/31/1995	0.63	4.1	No Data	No Data	No Data	No Data	No Data	1.1	No Data
05GS95-01 (Dup)	08/31/1995	1.1	6.8	No Data	No Data	No Data	No Data	No Data	0.98	No Data
21GS96-01	06/12/1996	0.91	7.1	13.4	0.4	0.26	0.04U	0.03U	0.03U	0.04U
22GS96-01	06/13/1996	1.5	6.1	10.3	0.4	0.43	0.02U	0.20	0.02U	0.16
23GS96-01	06/13/1996	0.51U	5.1	8.6	0.3	0.17	0.01U	0.02U	0.02U	0.02U
Middle Montezuma Creek Grasses										
24GS96-01	06/13/1996	1.2	5.2	8.0	0.3U	0.22	0.06	0.04U	0.02U	0.02U
24GS96-01 (Dup)	06/13/1996	1.5	6.1	11.3	0.4	0.28	0.06	0.17	0.03U	0.18
25GS96-01	06/13/1996	1.0	6.4	9.3	0.3	0.30	0.03U	0.03U	0.03U	0.02U
Lower Montezuma Creek Grasses										
06GS95-01	08/31/1995	2.4	5.5	No Data	No Data	No Data	No Data	No Data	0.85	No Data
07GS95-01	08/31/1995	0.32U	6.3	No Data	No Data	No Data	No Data	No Data	0.84	No Data
08GS95-01	08/31/1995	0.50U	6.4	No Data	No Data	No Data	No Data	No Data	1.1	No Data
09GS95-01	08/31/1995	0.60	5.3	No Data	No Data	No Data	No Data	No Data	0.86	No Data
Reference - Vega Shrubs										
13SH95-01	08/30/1995	0.34U	6.9	No Data	No Data	No Data	No Data	No Data	0.56	No Data
Reference - Verdure Shrubs										
10SH95-01	08/30/1995	0.29U	7.1	No Data	No Data	No Data	No Data	No Data	0.54	No Data
11SH95-01	08/30/1995	0.31U	6.1	No Data	No Data	No Data	No Data	No Data	0.74	No Data
11SH95-01 (Dup)	08/31/1995	0.25U	6.1	No Data	No Data	No Data	No Data	No Data	0.67	No Data
12SH95-01	08/30/1995	0.28U	4.8	No Data	No Data	No Data	No Data	No Data	0.71	No Data
14SH96-01	06/12/1996	0.45U	4.8	15.6	0.3	0.07U	0.02U	0.04U	0.04U	0.02U
15SH96-01	06/12/1996	0.67	4.5	7.6	0.4	0.06U	0.04U	0.05U	0.05U	0.15
16SH96-01	06/12/1996	0.42U	4.2	8.0	0.3	0.08U	0.03U	0.03U	0.03U	0.03U
Upper Montezuma Creek Shrubs										
01SH95-01	09/01/1995	0.26U	5.8	No Data	No Data	No Data	No Data	No Data	0.57	No Data
02SH95-01	09/01/1995	0.29U	5.0	No Data	No Data	No Data	No Data	No Data	0.47	No Data
03SH95-01	09/01/1995	0.32	5.5	No Data	No Data	No Data	No Data	No Data	0.35	No Data
04SH95-01	09/01/1995	0.53	4.3	No Data	No Data	No Data	No Data	No Data	0.70	No Data
05SH95-01	08/31/1995	0.36U	4.6	No Data	No Data	No Data	No Data	No Data	0.34	No Data
05SH95-01 (Dup)	08/31/1995	0.27U	5.4	No Data	No Data	No Data	No Data	No Data	0.43	No Data
21SH96-01	06/12/1996	0.39U	3.5	7.1	0.3	0.05U	0.02U	0.04U	0.03U	0.04U
22SH96-01	06/13/1996	11.7	2.3	6.7	0.3U	0.26	0.02U	0.04U	0.03U	0.04U
23SH96-01	06/13/1996	0.37U	2.5	5.4	0.2U	0.02U	0.01U	0.02U	0.02U	0.02U

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Biota Metals Data[a]

Sample Location	Sample Date	Alpha (pCi/g)	Beta (pCi/g)	Gamma (pCi/g)	Pb210 (pCi/g)	Ra226 (pCi/g)	Th230 (pCi/g)	U234 (pCi/g)	U235 (pCi/g)	U238 (pCi/g)
Middle Montezuma Creek Shrubs										
24SH96-01	06/13/1996	0.59	3.9	9.6	0.3	0.12	0.02U	0.04U	0.03U	0.03U
24SH96-01 (Dup)	06/13/1996	0.77	4.4	10	0.3U	0.08U	0.03U	0.05U	0.03U	0.03U
25SH96-01	06/13/1996	0.37U	3.1	6.9	0.3	0.04U	0.02U	0.03U	0.02U	0.03U
Lower Montezuma Creek Shrubs										
06SH95-01	08/31/1995	0.30U	5.5	No Data	No Data	No Data	No Data	No Data	0.72	No Data
07SH95-01	08/31/1995	0.31U	6.1	No Data	No Data	No Data	No Data	No Data	0.56	No Data
08SH95-01	08/31/1995	0.30U	6.2	No Data	No Data	No Data	No Data	No Data	0.69	No Data
09SH95-01	08/31/1995	0.32U	5.7	No Data	No Data	No Data	No Data	No Data	0.70	No Data
Reference - West of 191 Aquatic macroinvert.[b]										
MZG-1	08/15/1996	8.5	19.9	No Data	No Data	No Data	No Data	No Data	No Data	No Data
MZG-2	08/15/1996	5.3	11.9	No Data	No Data	No Data	No Data	No Data	No Data	No Data
MZG-3	08/15/1996	4.6U	17.4	No Data	No Data	No Data	No Data	No Data	No Data	No Data
MZUG-1	08/15/1996	4.5U	22.1	No Data	No Data	No Data	No Data	No Data	No Data	No Data
MZUG-2	08/15/1996	7.1	13.5	No Data	No Data	No Data	No Data	No Data	No Data	No Data
MZUG-3	08/15/1996	6.2	8.5U	No Data	No Data	No Data	No Data	No Data	No Data	No Data
Reference - Verdure Aquatic macroinvert.[b]										
VD-1 A	08/17/1995	-.019	10.0	No Data	No Data	No Data	No Data	No Data	-1.5	No Data
VD-1 B	08/17/1995	.66	13.7	No Data	No Data	No Data	No Data	No Data	21.6	No Data
VD-1-1	08/15/1996	11.0	15.2	No Data	No Data	No Data	No Data	No Data	No Data	No Data
VD-1-2	08/15/1996	10.9	21.4	No Data	No Data	No Data	No Data	No Data	No Data	No Data
VD-1-3	08/15/1996	8.6	17.5	No Data	No Data	No Data	No Data	No Data	No Data	No Data
Upper Montezuma Creek Aquatic macroinvert.[b]										
MZ-2 A	08/17/1995	5.2	2.1	No Data	No Data	No Data	No Data	No Data	17.2	No Data
MZ-2 B	08/17/1995	6.3	20.8	No Data	No Data	No Data	No Data	No Data	-.42	No Data
MZ-2 C	08/17/1995	8.4	14.1	No Data	No Data	No Data	No Data	No Data	25.7	No Data
MZ-2-1	08/14/1996	9.6	23.8	No Data	No Data	No Data	No Data	No Data	No Data	No Data
MZ-2-2	08/14/1996	12.4	23.0	No Data	No Data	No Data	No Data	No Data	No Data	No Data
MZ-2-3	08/14/1996	18	20.3	No Data	No Data	No Data	No Data	No Data	No Data	No Data
MZ-3 A	08/17/1995	6.1	10.4	No Data	No Data	No Data	No Data	No Data	1.8	No Data
MZ-3 B	08/17/1995	4.4	11.3	No Data	No Data	No Data	No Data	No Data	1.4	No Data
MZ-3 C	08/17/1995	4.3	18.1	No Data	No Data	No Data	No Data	No Data	8.3	No Data
MZ-3-1	08/14/1996	13.0	20.9	No Data	No Data	No Data	No Data	No Data	No Data	No Data
MZ-3-2	08/14/1996	15.8	24.2	No Data	No Data	No Data	No Data	No Data	No Data	No Data
MZ-3-3	08/14/1996	25.3	21.7	No Data	No Data	No Data	No Data	No Data	No Data	No Data
MZ-5 A	08/17/1995	5.5	16.6	No Data	No Data	No Data	No Data	No Data	12.1	No Data
Lower Montezuma Creek Aquatic macroinvert.[b]										
MZ-9 A	08/17/1995	1.7	8.8	No Data	No Data	No Data	No Data	No Data	-2.3	No Data
MZ-9 B	08/17/1995	-.38	11.7	No Data	No Data	No Data	No Data	No Data	17.7	No Data

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected: value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]All results at these locations are unvalidated.

Biota Metals Data[a]

Sample Location	Sample Date	Alpha (pCi/g)	Beta (pCi/g)	Gamma (pCi/g)	Pb210 (pCi/g)	Ra226 (pCi/g)	Th230 (pCi/g)	U234 (pCi/g)	U235 (pCi/g)	U238 (pCi/g)
Lower Montezuma Creek Aquatic macroinvert.[b]										
MZ-9-1	08/14/1996	10.5	18.3	No Data	No Data	No Data	No Data	No Data	No Data	No Data
MZ-9-2	08/14/1996	11.6	15.3	No Data	No Data	No Data	No Data	No Data	No Data	No Data
MZ-9-3	08/14/1996	16.6	24.0	No Data	No Data	No Data	No Data	No Data	No Data	No Data
Reference - Verdure Non-flying invert.										
14TI96-01	07/11/1996	0.77J-	2.5J-	No Data	No Data	0.06	No Data	No Data	No Data	No Data
15TI96-01	07/11/1996	1.2J-	2.6J-	No Data	No Data	0.08	No Data	No Data	No Data	No Data
16TI96-01	07/11/1996	0.87J-	2.9J-	No Data	No Data	0.12	No Data	No Data	No Data	No Data
Upper Montezuma Creek Non-flying invert.										
21TI96-01	07/11/1996	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
21TI96-01 (Dup)	07/11/1996	1.4J-	3.3J-	No Data	No Data	0.29	No Data	No Data	No Data	No Data
22&23TI96-01	07/11/1996	3.9J-	4.7J-	No Data	No Data	0.90	No Data	No Data	No Data	No Data
22TI96-01	07/11/1996	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
23TI96-01	07/11/1996	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
Middle Montezuma Creek Non-flying invert.										
24TI96-01	07/11/1996	1.8J-	3.5J-	No Data	No Data	0.38	No Data	No Data	No Data	No Data
25TI96-01	07/11/1996	1.4J-	3.4J-	No Data	No Data	0.43	No Data	No Data	No Data	No Data
Reference - Verdure Flying invert.										
03FI96-01	07/11/1996	0.74J-	3.3J-	No Data	No Data	0.11	No Data	No Data	No Data	No Data
Montezuma Canyon Flying invert.										
01FI96-01	07/11/1996	1.4J-	3.6J-	No Data	No Data	0.22	No Data	No Data	No Data	No Data
01FI96-01 (Dup)	07/11/1996	1.1J-	4.0J-	No Data	No Data	0.23	No Data	No Data	No Data	No Data
Reference - Verdure F & NF invert.										
10TI95-01	09/11/1995	0.38	3.3	No Data	No Data	No Data	No Data	No Data	0.46	No Data
10TI95-01 (Dup)	09/13/1995	0.24U	2.7	No Data	No Data	No Data	No Data	No Data	0.59	No Data
11TI95-01	09/11/1995	0.30U	3.4	No Data	No Data	No Data	No Data	No Data	0.45	No Data
12TI95-01	09/11/1995	0.19U	3.4	No Data	No Data	No Data	No Data	No Data	0.55	No Data
Upper Montezuma Creek F & NF invert.										
01TI95-01	09/13/1995	0.22	3.2	No Data	No Data	No Data	No Data	No Data	0.58	No Data
02TI95-01	09/13/1995	0.44	3.2	No Data	No Data	No Data	No Data	No Data	0.48	No Data
03TI95-01	09/13/1995	0.37	3.6	No Data	No Data	No Data	No Data	No Data	0.51	No Data
04TI95-01	09/13/1995	0.22U	3.1	No Data	No Data	No Data	No Data	No Data	0.51	No Data
04TI95-01 (Dup)	09/13/1995	0.16U	3.1	No Data	No Data	No Data	No Data	No Data	0.42	No Data
05TI95-01	09/12/1995	0.33	3.5	No Data	No Data	No Data	No Data	No Data	0.53	No Data
Lower Montezuma Creek F & NF invert.										
06TI95-01	09/12/1995	2.6	7.1	No Data	No Data	No Data	No Data	No Data	0.48	No Data
07TI95-01	09/12/1995	.14	3.4	No Data	No Data	No Data	No Data	No Data	0.41	No Data
08TI95-01	09/12/1995	1.5	5.3	No Data	No Data	No Data	No Data	No Data	0.37	No Data
09TI95-01	09/12/1995	0.29U	3.3	No Data	No Data	No Data	No Data	No Data	0.60	No Data

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected; value is sample detection limit. UJ -- Not detected, associated value is estimated.
[b]All results at these locations are unvalidated.

Biota Metals Data[a]

Sample Location	Sample Date	Alpha (pCi/g)	Beta (pCi/g)	Gamma (pCi/g)	Pb210 (pCi/g)	Ra226 (pCi/g)	Th230 (pCi/g)	U234 (pCi/g)	U235 (pCi/g)	U238 (pCi/g)
Reference - Vega Swallow carcass										
13CS95-01	08/03/1995	0.23U	2.0	No Data	No Data	No Data	No Data	No Data	0.33	No Data
13CS95-01	08/03/1995	0.24U	2.2	No Data	No Data	No Data	No Data	No Data	0.27	No Data
13CS95-01	08/03/1995	0.44U	2.4	No Data	No Data	No Data	No Data	No Data	0.31	No Data
Upper Montezuma Creek Swallow carcass										
05CS95-01	07/11/1995	0.32U	1.9	No Data	No Data	No Data	No Data	No Data	0.18	No Data
05CS95-01	07/11/1995	0.25U	2.1	No Data	No Data	No Data	No Data	No Data	0.22	No Data
05CS95-01	07/11/1995	0.24U	2.2	No Data	No Data	No Data	No Data	No Data	0.16	No Data
Other Swallow carcass										
BLM Compound	07/27/1995	0.27	2.3	No Data	No Data	No Data	No Data	No Data	0.45	No Data
BLM Compound	07/27/1995	0.47	2.7	No Data	No Data	No Data	No Data	No Data	0.35	No Data
BLM Compound	07/27/1995	0.30	2.2	No Data	No Data	No Data	No Data	No Data	0.49	No Data
Reference - Vega Swallow liver										
13CS95-01	08/03/1995	0.14U	2.1	No Data	No Data	No Data	No Data	No Data	0.77	No Data
Upper Montezuma Creek Swallow liver										
05CS95-01	07/11/1995	0.17U	2.2	No Data	No Data	No Data	No Data	No Data	0.51	No Data
Other Swallow liver										
BLM Compound	07/27/1995	0.17U	1.6	No Data	No Data	No Data	No Data	No Data	0.84	No Data

[a]Definition of Qualifiers: R -- Data unusable. J -- Estimated quantity. U -- Not detected: value is sample detection limit. UJ -- Not detected, associated value is estimated.

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Appendix C–6

1995 Soil/Sediment Data

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1995 Soil Radium-226 Field Measurements

North				South			
Sample Location	Depth (in.)	Type[a]	Result (pCi/g)	Sample Location	Depth (in.)	Type[a]	Result (pCi/g)
Upper Montezuma Creek							
01SS95-1N	0	TC	4.6	01SS95-1S	0	TC	4.6
01SS95-1N	6	TC	5.4	01SS95-1S	6	TC	6.9
01SS95-1N	12	TC	8.1	01SS95-1S	12	TC	4.9
01SS95-1N	18	TC	9.9	01SS95-1S	18	TC	4.9
01SS95-1N	24	TC	14.0	01SS95-1S	24	TC	6.7
01SS95-1N	30	TC	12.1				
01SS95-1N	36	TC	6.4				
01SS95-2N	0	TC	8.3	01SS95-2S	0	TC	3.2
01SS95-2N	6	TC	19.5	01SS95-2S	6	TC	3.8
01SS95-2N	12	TC	34.2	01SS95-2S	12	TC	4.7
01SS95-2N	18	TC	20.8	01SS95-2S	18	TC	4.6
01SS95-2N	24	TC	18.4	01SS95-2S	24	TC	5.2
01SS95-2N	30	TC	16.3				
01SS95-2N	36	TC	9.4				
01SS95-2N	42	TC	5.1				
01SS95-3N	0	TC	3.6	01SS95-3S	0	DS	2.6
01SS95-3N	6	TC	3.8	01SS95-3S	6	DS	3.7
01SS95-3N	12	TC	4.5	01SS95-3S	12	DS	6.3
01SS95-3N	18	TC	4.9	01SS95-3S	18	DS	5.4
01SS95-3N	24	TC	4.6	01SS95-3S	24	DS	3.6
01SS95-4N	0	TC	5.9	01SS95-4S	0	DS	1.9
01SS95-4N	6	TC	9.8	01SS95-4S	6	DS	2.5
01SS95-4N	12	TC	5.7	01SS95-4S	12	DS	1.6
01SS95-4N	18	TC	4.3	01SS95-4S	18	DS	1.9
01SS95-4N	24	TC	3.8				
01SS95-5N	0	TC	2.9	01SS95-5S	0	TC	2.6
01SS95-5N	6	TC	3.5	01SS95-5S	6	TC	3.0
01SS95-5N	12	TC	3.9	01SS95-5S	12	TC	3.4
01SS95-5N	18	TC	3.7	01SS95-5S	18	TC	3.3
01SS95-5N	24	TC	3.3	01SS95-5S	24	TC	3.2
02SS95-1N	0	TC	8.4	02SS95-1S	0	TC	4.7
02SS95-1N	6	TC	9.4	02SS95-1S	6	TC	4.4
02SS95-1N	12	TC	4.7	02SS95-1S	12	TC	7.7
02SS95-1N	18	TC	3.8	02SS95-1S	18	TC	6.3
02SS95-1N	24	TC	3.5	02SS95-1S	24	TC	5.0

[a]Measurement type: DS=Delta Scintillometer, TC=Total Count Borehole

1995 Soil Radium-226 Field Measurements

North				South			
Sample Location	Depth (in.)	Type[a]	Result (pCi/g)	Sample Location	Depth (in.)	Type[a]	Result (pCi/g)
02SS95-2N	0	TC	4.4	02SS95-2S	0	DS	1.6
02SS95-2N	6	TC	4.4	02SS95-2S	6	DS	2.0
02SS95-2N	12	TC	4.6	02SS95-2S	12	DS	1.1
02SS95-2N	18	TC	4.1				
02SS95-2N	24	TC	3.3				
02SS95-3N	0	TC	3.4	02SS95-3S	0	TC	2.7
02SS95-3N	6	TC	3.3	02SS95-3S	6	TC	3.0
02SS95-3N	12	TC	3.7	02SS95-3S	12	TC	3.5
02SS95-3N	18	TC	3.6	02SS95-3S	18	TC	3.7
02SS95-3N	24	TC	3.6	02SS95-3S	18	DS	2.1
				02SS95-3S	21	TC	3.4
02SS95-4N	0	TC	3.2	02SS95-4S	0	TC	2.7
02SS95-4N	6	TC	3.2	02SS95-4S	6	TC	3.0
02SS95-4N	12	TC	4.2	02SS95-4S	12	TC	3.9
02SS95-4N	18	TC	4.1	02SS95-4S	18	TC	3.9
02SS95-4N	24	TC	4.1	02SS95-4S	24	TC	3.7
02SS95-5N	0	TC	2.9	02SS95-5S	0	TC	2.8
02SS95-5N	6	TC	3.0	02SS95-5S	6	TC	3.1
02SS95-5N	12	TC	3.8	02SS95-5S	12	TC	4.1
02SS95-5N	18	TC	4.0	02SS95-5S	18	TC	4.2
02SS95-5N	24	TC	3.2	02SS95-5S	24	TC	4.1
03SS95-1N	0	TC	20.4	03SS95-1S	0	TC	10.0
03SS95-1N	6	TC	39.0	03SS95-1S	6	TC	12.0
03SS95-1N	12	TC	62.1	03SS95-1S	12	TC	6.0
03SS95-1N	18	TC	5.3	03SS95-1S	18	TC	4.8
03SS95-1N	24	TC	5.7	03SS95-1S	24	TC	4.6
03SS95-2N	0	TC	21.2	03SS95-2S	0	TC	4.7
03SS95-2N	6	TC	14.7	03SS95-2S	6	TC	3.6
03SS95-2N	12	TC	5.6	03SS95-2S	12	TC	3.7
03SS95-2N	18	TC	5.0	03SS95-2S	18	TC	3.6
03SS95-2N	24	TC	4.9	03SS95-2S	24	TC	3.4

[a]Measurement type: DS=Delta Scintillometer, TC=Total Count Borehole

1995 Soil Radium-226 Field Measurements

North				South			
Sample Location	Depth (in.)	Type[a]	Result (pCi/g)	Sample Location	Depth (in.)	Type[a]	Result (pCi/g)
03SS95-3N	0	TC	78.9	03SS95-3S	0	TC	4.6
03SS95-3N	6	TC	142.8	03SS95-3S	6	TC	3.1
03SS95-3N	12	TC	166.8	03SS95-3S	12	TC	2.5
03SS95-3N	18	TC	62.7	03SS95-3S	15	TC	2.8
03SS95-3N	24	TC	29.3	03SS95-3S	18	DS	<1.0
03SS95-4N	0	TC	74.1	03SS95-4S	0	DS	<1.0
03SS95-4N	6	TC	115.5	03SS95-4S	6	DS	<1.0
03SS95-4N	12	TC	65.2	03SS95-4S	12	DS	<1.0
03SS95-4N	18	TC	15.4	03SS95-4S	18	DS	<1.0
03SS95-4N	24	TC	10.4				
03SS95-4N	30	TC	8.3				
03SS95-5N	0	TC	4.7	03SS95-5S	0	DS	2.2
03SS95-5N	6	TC	4.1	03SS95-5S	6	DS	<1.0
03SS95-5N	12	TC	4.5	03SS95-5S	12	DS	<1.0
03SS95-5N	18	TC	4.3	03SS95-5S	18	DS	<1.0
03SS95-5N	24	TC	4.1				
04SS95-1N	0	TC	43.7	04SS95-1S	0	TC	9.4
04SS95-1N	6	TC	87.5	04SS95-1S	6	TC	18.1
04SS95-1N	12	TC	74.9	04SS95-1S	12	TC	6.8
04SS95-1N	18	TC	19.1	04SS95-1S	18	TC	4.3
04SS95-1N	24	TC	17.1	04SS95-1S	24	TC	3.9
04SS95-1N	30	TC	6.9				
04SS95-2N	0	TC	40.0	04SS95-2S	0	TC	3.9
04SS95-2N	6	TC	89.3	04SS95-2S	6	TC	4.4
04SS95-2N	12	TC	60.1	04SS95-2S	12	TC	4.7
04SS95-2N	18	TC	4.3	04SS95-2S	18	TC	3.9
04SS95-2N	24	TC	6.9	04SS95-2S	24	TC	3.5
04SS95-3N	0	TC	2.7	04SS95-3S	0	TC	3.4
04SS95-3N	6	TC	1.9	04SS95-3S	6	TC	3.8
04SS95-3N	12	TC	2.0	04SS95-3S	12	TC	4.4
04SS95-3N	18	TC	2.0	04SS95-3S	18	TC	3.8
04SS95-3N	24	TC	2.0	04SS95-3S	24	TC	3.5

[a]Measurement type: DS=Delta Scintillometer, TC=Total Count Borehole

1995 Soil Radium-226 Field Measurements

North				South			
Sample Location	Depth (in.)	Type[a]	Result (pCi/g)	Sample Location	Depth (in.)	Type[a]	Result (pCi/g)
04SS95-4N	0	DS	<1.0	04SS95-4S	0	TC	3.1
04SS95-4N	6	DS	<1.0	04SS95-4S	6	TC	3.4
04SS95-4N	12	DS	<1.0	04SS95-4S	12	TC	4.0
04SS95-4N	18	DS	<1.0	04SS95-4S	18	TC	3.7
				04SS95-4S	24	TC	3.6
04SS95-5N	0	DS	<1.0	04SS95-5S	0	TC	3.0
04SS95-5N	6	DS	<1.0	04SS95-5S	6	TC	3.3
04SS95-5N	12	DS	<1.0	04SS95-5S	12	TC	3.8
04SS95-5N	18	DS	<1.0	04SS95-5S	18	TC	3.5
				04SS95-5S	24	TC	3.3
05SS95-1N	0	TC	13.2	05SS95-1S	0	TC	3.0
05SS95-1N	6	TC	36.3	05SS95-1S	6	TC	2.7
05SS95-1N	12	TC	70.9	05SS95-1S	12	TC	2.9
05SS95-1N	18	TC	136.4	05SS95-1S	18	TC	2.9
05SS95-1N	24	TC	44.6	05SS95-1S	24	TC	3.0
05SS95-1N	30	TC	2.8				
05SS95-1N	36	TC	4.1				
05SS95-2N	0	TC	24.1	05SS95-2S	0	TC	2.4
05SS95-2N	6	TC	52.7	05SS95-2S	6	TC	2.2
05SS95-2N	12	TC	146.4	05SS95-2S	12	TC	2.5
05SS95-2N	18	TC	112.0	05SS95-2S	18	TC	2.9
05SS95-2N	24	TC	38.5	05SS95-2S	24	TC	2.9
05SS95-3N	0	TC	21.6	05SS95-3S	0	TC	2.1
05SS95-3N	6	TC	54.9	05SS95-3S	6	TC	2.1
05SS95-3N	12	TC	142.2	05SS95-3S	12	TC	2.5
05SS95-3N	18	TC	22.2	05SS95-3S	18	TC	3.0
05SS95-3N	24	TC	40.8	05SS95-3S	24	TC	2.7
05SS95-3N	30	TC	9.6				
05SS95-4N	0	TC	15.5	05SS95-4S	0	TC	2.3
05SS95-4N	6	TC	26.7	05SS95-4S	6	TC	2.2
05SS95-4N	12	TC	136.6	05SS95-4S	12	TC	2.0
05SS95-4N	18	TC	119.9	05SS95-4S	18	TC	2.4
05SS95-4N	24	TC	34.4	05SS95-4S	24	TC	2.2
05SS95-4N	30	TC	8.1				

[a]Measurement type: DS=Delta Scintillometer, TC=Total Count Borehole

1995 Soil Radium-226 Field Measurements

North				South			
Sample Location	Depth (in.)	Type[a]	Result (pCi/g)	Sample Location	Depth (in.)	Type[a]	Result (pCi/g)
05SS95-5N	0	TC	11.4				
05SS95-5N	6	TC	18.6				
05SS95-5N	12	TC	87.4				
05SS95-5N	18	TC	14.4				
05SS95-5N	24	TC	21.1				
05SS95-5N	30	TC	5.0				
Lower Montezuma Creek							
06SS95-1N	0	TC	14.0	06SS95-1S	0	TC	3.5
06SS95-1N	6	TC	14.8	06SS95-1S	6	TC	3.4
06SS95-1N	12	TC	3.0	06SS95-1S	12	TC	3.1
06SS95-1N	18	TC	3.0	06SS95-1S	18	TC	3.2
06SS95-1N	24	TC	3.5	06SS95-1S	24	TC	3.1
06SS95-2N	0	TC	28.2	06SS95-2S	0	TC	2.8
06SS95-2N	6	TC	22.9	06SS95-2S	6	TC	3.3
06SS95-2N	12	TC	11.3	06SS95-2S	12	TC	3.3
06SS95-2N	18	TC	8.2	06SS95-2S	18	TC	3.4
06SS95-2N	24	TC	7.8	06SS95-2S	24	TC	3.4
06SS95-2N	30	TC	4.8				
06SS95-3N	0	TC	49.6	06SS95-3S	0	TC	2.6
06SS95-3N	6	TC	100.5	06SS95-3S	6	TC	3.3
06SS95-3N	12	TC	13.9	06SS95-3S	12	TC	3.1
06SS95-3N	18	TC	3.5	06SS95-3S	18	TC	3.1
06SS95-3N	24	TC	9.0	06SS95-3S	24	TC	3.0
06SS95-3N	30	TC	7.6				
06SS95-3N	36	TC	6.8				
06SS95-3N	42	TC	5.1				
06SS95-4N	0	TC	54.1	06SS95-4S	0	TC	2.7
06SS95-4N	6	TC	110.9	06SS95-4S	6	TC	3.2
06SS95-4N	12	TC	17.2	06SS95-4S	12	TC	3.3
06SS95-4N	18	TC	3.3	06SS95-4S	18	TC	3.4
06SS95-4N	24	TC	8.4	06SS95-4S	24	TC	3.4
06SS95-4N	30	TC	5.5				

[a]Measurement type: DS=Delta Scintillometer, TC=Total Count Borehole

1995 Soil Radium-226 Field Measurements

North				South			
Sample Location	Depth (in.)	Type[a]	Result (pCi/g)	Sample Location	Depth (in.)	Type[a]	Result (pCi/g)
06SS95-5N	0	TC	23.7	06SS95-5S	0	TC	2.5
06SS95-5N	6	TC	4.7	06SS95-5S	6	TC	2.8
06SS95-5N	12	TC	4.9	06SS95-5S	12	TC	3.2
06SS95-5N	18	TC	4.5	06SS95-5S	18	TC	3.2
06SS95-5N	24	TC	4.6	06SS95-5S	24	TC	3.2
07SS95-1N	0	TC	4.6	07SS95-1S	0	TC	2.5
07SS95-1N	6	TC	8.3	07SS95-1S	6	TC	2.8
07SS95-1N	12	TC	10.8	07SS95-1S	12	TC	3.1
07SS95-1N	18	TC	16.0	07SS95-1S	18	TC	3.0
07SS95-1N	24	TC	15.4	07SS95-1S	24	TC	3.1
07SS95-2N	0	TC	5.9	07SS95-2S	0	TC	2.3
07SS95-2N	6	TC	10.7	07SS95-2S	6	TC	3.2
07SS95-2N	12	TC	14.3	07SS95-2S	12	TC	3.3
07SS95-2N	18	TC	16.6	07SS95-2S	18	TC	3.1
07SS95-2N	24	TC	17.7	07SS95-2S	24	TC	3.0
07SS95-2N	30	TC	25.6				
07SS95-2N	36	TC	23.6				
07SS95-2N	42	TC	23.2				
07SS95-3N	0	TC	8.2	07SS95-3S	0	TC	2.1
07SS95-3N	6	TC	12.8	07SS95-3S	6	TC	3.0
07SS95-3N	12	TC	30.4	07SS95-3S	12	TC	3.1
07SS95-3N	18	TC	37.2	07SS95-3S	18	TC	3.0
07SS95-3N	24	TC	3.6	07SS95-3S	24	TC	3.0
07SS95-3N	30	TC	10.9				
07SS95-4N	0	TC	9.6	07SS95-4S	0	TC	1.8
07SS95-4N	6	TC	31.3	07SS95-4S	6	TC	2.8
07SS95-4N	12	TC	27.9	07SS95-4S	12	TC	3.0
07SS95-4N	18	TC	2.5	07SS95-4S	18	TC	3.0
07SS95-4N	24	TC	7.3	07SS95-4S	24	TC	3.1
				07SS95-5S	0	TC	2.5
				07SS95-5S	6	TC	3.6
				07SS95-5S	12	TC	3.4
				07SS95-5S	18	TC	3.4
				07SS95-5S	24	TC	3.4

[a]Measurement type: DS=Delta Scintillometer, TC=Total Count Borehole

1995 Soil Radium-226 Field Measurements

North				South			
Sample Location	Depth (in.)	Type[a]	Result (pCi/g)	Sample Location	Depth (in.)	Type[a]	Result (pCi/g)
08SS95-1N	0	TC	5.3	08SS95-1S	0	TC	3.3
08SS95-1N	6	TC	15.6	08SS95-1S	6	TC	7.6
08SS95-1N	12	TC	26.2	08SS95-1S	12	TC	8.8
08SS95-1N	18	TC	23.3	08SS95-1S	18	TC	13.6
08SS95-1N	24	TC	16.5	08SS95-1S	24	TC	8.0
08SS95-2N	0	TC	5.3	08SS95-2S	0	TC	1.9
08SS95-2N	6	TC	11.0	08SS95-2S	6	TC	2.6
08SS95-2N	12	TC	33.4	08SS95-2S	12	TC	3.8
08SS95-2N	18	TC	12.6	08SS95-2S	18	TC	10.2
08SS95-2N	24	TC	7.9	08SS95-2S	24	TC	6.4
08SS95-3N	0	TC	2.1	08SS95-3S	0	TC	2.0
08SS95-3N	6	TC	2.8	08SS95-3S	6	TC	2.6
08SS95-3N	12	TC	2.7	08SS95-3S	12	TC	3.3
08SS95-3N	18	TC	2.4	08SS95-3S	18	TC	3.2
08SS95-3N	24	TC	2.3	08SS95-3S	24	TC	2.9
08SS95-4N	0	TC	1.9	08SS95-4S	0	TC	1.9
08SS95-4N	6	TC	1.8	08SS95-4S	6	TC	2.6
08SS95-4N	12	TC	2.9	08SS95-4S	12	TC	3.1
08SS95-4N	18	TC	2.6	08SS95-4S	18	TC	2.9
08SS95-4N	24	TC	2.5	08SS95-4S	24	TC	2.9
08SS95-5N	0	TC	1.9	08SS95-5S	0	TC	2.0
08SS95-5N	6	TC	2.4	08SS95-5S	6	TC	2.6
08SS95-5N	12	TC	2.6	08SS95-5S	12	TC	2.9
08SS95-5N	18	TC	2.5	08SS95-5S	18	TC	2.8
08SS95-5N	24	TC	2.5	08SS95-5S	24	TC	2.8
09SS95-1N	0	TC	8.1	09SS95-1S	0	TC	5.2
09SS95-1N	6	TC	19.0	09SS95-1S	6	TC	5.7
09SS95-1N	12	TC	55.8	09SS95-1S	12	TC	31.3
09SS95-1N	18	DS	6.7	09SS95-1S	18	DS	59.0
09SS95-1N	18	TC	33.4				

[a]Measurement type: DS=Delta Scintillometer, TC=Total Count Borehole

1995 Soil Radium-226 Field Measurements

North				South			
Sample Location	Depth (in.)	Type[a]	Result (pCi/g)	Sample Location	Depth (in.)	Type[a]	Result (pCi/g)
09SS95-2N	0	TC	4.4	09SS95-2S	0	DS	9.8
09SS95-2N	6	TC	8.9	09SS95-2S	6	DS	26.0
09SS95-2N	12	TC	5.3	09SS95-2S	12	DS	52.6
09SS95-2N	18	TC	3.7	09SS95-2S	18	DS	88.9
09SS95-2N	24	TC	3.2	09SS95-2S	24	DS	33.2
				09SS95-2S	30	DS	13.5
09SS95-3N	0	TC	9.1	09SS95-3S	0	TC	6.8
09SS95-3N	6	TC	33.2	09SS95-3S	6	TC	24.0
09SS95-3N	12	TC	7.5	09SS95-3S	12	TC	24.9
09SS95-3N	18	TC	9.6	09SS95-3S	18	TC	6.8
09SS95-3N	24	TC	4.6	09SS95-3S	24	TC	6.8
09SS95-4N	0	TC	5.4	09SS95-4S	0	TC	7.1
09SS95-4N	6	TC	10.9	09SS95-4S	6	TC	13.0
09SS95-4N	12	TC	6.2	09SS95-4S	12	TC	13.8
09SS95-4N	18	TC	4.0	09SS95-4S	18	TC	6.1
				09SS95-4S	24	TC	4.1
09SS95-5N	0	TC	2.7				
09SS95-5N	6	TC	2.8				
09SS95-5N	12	TC	3.2				
09SS95-5N	18	TC	2.7				
09SS95-5N	24	TC	2.8				
Verdure Creek–Reference Area							
10SS95-1N	0	DS	<1.0	10SS95-1S	0	TC	1.9
10SS95-1N	6	DS	<1.0	10SS95-1S	6	TC	2.5
10SS95-1N	12	DS	<1.0	10SS95-1S	12	TC	2.6
10SS95-1N	18	DS	<1.0	10SS95-1S	18	TC	2.9
				10SS95-1S	24	TC	2.3
10SS95-2N	0	TC	2.1	10SS95-2S	0	DS	<1.0
10SS95-2N	6	TC	2.6	10SS95-2S	6	DS	<1.0
10SS95-2N	12	TC	3.5	10SS95-2S	12	DS	<1.0
10SS95-2N	18	TC	2.5	10SS95-2S	18	DS	<1.0
10SS95-2N	24	TC	2.7				
10SS95-3N	0	TC	2.0	10SS95-3S	0	DS	<1.0
10SS95-3N	6	TC	2.4	10SS95-3S	6	DS	<1.0
10SS95-3N	12	TC	2.7	10SS95-3S	12	DS	<1.0
10SS95-3N	18	DS	<1.0	10SS95-3S	18	DS	<1.0

[a]Measurement type: DS=Delta Scintillometer, TC=Total Count Borehole

1995 Soil Radium-226 Field Measurements

North				South			
Sample Location	Depth (in.)	Type[a]	Result (pCi/g)	Sample Location	Depth (in.)	Type[a]	Result (pCi/g)
10SS95-4N	0	TC	1.8	10SS95-4S	0	TC	1.9
10SS95-4N	6	TC	2.2	10SS95-4S	6	TC	2.3
10SS95-4N	12	TC	2.5	10SS95-4S	12	TC	3.0
10SS95-4N	18	TC	2.8	10SS95-4S	18	TC	2.9
10SS95-4N	24	TC	2.7	10SS95-4S	24	TC	3.0
10SS95-5N	0	TC	1.9	10SS95-5S	0	TC	2.1
10SS95-5N	6	TC	2.3	10SS95-5S	6	TC	2.7
10SS95-5N	12	TC	2.7	10SS95-5S	12	TC	3.0
10SS95-5N	18	TC	2.6	10SS95-5S	18	TC	3.0
10SS95-5N	24	TC	2.7	10SS95-5S	24	TC	3.1
11SS95-1N	0	DS	<1.0	11SS95-1S	0	TC	1.9
11SS95-1N	6	DS	<1.0	11SS95-1S	6	TC	2.6
11SS95-1N	12	DS	<1.0	11SS95-1S	12	TC	3.0
11SS95-1N	18	DS	<1.0	11SS95-1S	18	TC	3.1
				11SS95-1S	24	TC	2.9
11SS95-2N	0	TC	1.6	11SS95-2S	0	TC	2.1
11SS95-2N	6	TC	2.0	11SS95-2S	6	TC	2.4
11SS95-2N	12	TC	2.6	11SS95-2S	12	TC	3.5
11SS95-2N	18	TC	2.8	11SS95-2S	18	TC	3.3
11SS95-2N	24	TC	2.7	11SS95-2S	24	TC	3.3
11SS95-3N	0	TC	1.8	11SS95-3S	0	TC	2.0
11SS95-3N	6	TC	2.1	11SS95-3S	6	TC	2.5
11SS95-3N	12	TC	2.5	11SS95-3S	12	TC	3.1
11SS95-3N	18	TC	2.4	11SS95-3S	18	TC	2.9
11SS95-3N	24	TC	2.4	11SS95-3S	24	TC	2.9
11SS95-4N	0	TC	1.9	11SS95-4S	0	TC	2.1
11SS95-4N	6	TC	2.6	11SS95-4S	6	TC	2.8
11SS95-4N	12	TC	2.4	11SS95-4S	12	TC	3.2
11SS95-4N	18	TC	2.3	11SS95-4S	18	TC	3.2
11SS95-4N	24	TC	2.2	11SS95-4S	24	TC	3.2
11SS95-5N	0	TC	1.6	11SS95-5S	0	TC	2.1
11SS95-5N	6	TC	1.8	11SS95-5S	6	TC	2.8
11SS95-5N	12	TC	2.7	11SS95-5S	12	TC	3.2
11SS95-5N	18	TC	2.3	11SS95-5S	18	TC	3.2
11SS95-5N	24	TC	2.3	11SS95-5S	24	TC	3.2

[a]Measurement type: DS=Delta Scintillometer. TC=Total Count Borehole

1995 Soil Radium-226 Field Measurements

North				South			
Sample Location	Depth (in.)	Type[a]	Result (pCi/g)	Sample Location	Depth (in.)	Type[a]	Result (pCi/g)
12SS95-1N	0	TC	2.0	12SS95-1S	0	TC	2.2
12SS95-1N	6	TC	2.8	12SS95-1S	6	TC	2.7
12SS95-1N	12	TC	2.9	12SS95-1S	12	TC	3.2
12SS95-1N	18	TC	2.7	12SS95-1S	18	TC	3.4
12SS95-1N	24	TC	2.6	12SS95-1S	24	TC	3.3
12SS95-2N	0	TC	1.7	12SS95-2S	0	TC	2.1
12SS95-2N	6	TC	2.2	12SS95-2S	6	TC	2.7
12SS95-2N	12	TC	2.2	12SS95-2S	12	TC	3.4
12SS95-2N	18	TC	2.6	12SS95-2S	18	TC	3.4
12SS95-2N	21	TC	1.8	12SS95-2S	24	TC	3.2
12SS95-3N	0	TC	1.7	12SS95-3S	0	TC	2.0
12SS95-3N	6	TC	1.7	12SS95-3S	6	TC	2.8
12SS95-3N	12	TC	3.4	12SS95-3S	12	TC	3.4
12SS95-3N	18	TC	3.2	12SS95-3S	18	TC	3.3
12SS95-3N	24	TC	3.3	12SS95-3S	24	TC	3.4
12SS95-4N	0	TC	1.7	12SS95-4S	0	TC	1.9
12SS95-4N	6	TC	2.0	12SS95-4S	6	TC	2.4
12SS95-4N	12	TC	2.9	12SS95-4S	12	TC	2.9
12SS95-4N	18	TC	2.8	12SS95-4S	18	TC	3.1
12SS95-4N	24	TC	2.9	12SS95-4S	24	TC	2.9
12SS95-5N	0	TC	1.6	12SS95-5S	0	TC	1.8
12SS95-5N	6	TC	1.8	12SS95-5S	6	TC	2.3
12SS95-5N	12	TC	2.5	12SS95-5S	12	TC	2.8
12SS95-5N	18	TC	2.6	12SS95-5S	18	TC	2.9
12SS95-5N	24	TC	2.7	12SS95-5S	24	TC	2.7

[a]Measurement type: DS=Delta Scintillometer, TC=Total Count Borehole

1995 Sediment Radium-226 Field Measurements

Sample Location	Depth (in.)	Type[a]	Result (pCi/g)
Upper Montezuma Creek			
BPSD95-01	0	TC	3.9
BPSD95-01	6	TC	7.1
BPSD95-01	12	TC	8.0
BPSD95-01	18	TC	6.9
BPSD95-01	24	TC	6.5
BPSD95-01	30	TC	8.2
BPSD95-01	36	TC	6.3
BPSD95-01	42	TC	6.8
BPSD95-01	48	TC	9.4
BPSD95-01	54	TC	6.8
BPSD95-01	60	TC	6.3
BPSD95-02	0	TC	1.1
BPSD95-02	6	TC	2.7
BPSD95-02	12	TC	8.1
BPSD95-02	18	TC	8.5
BPSD95-02	24	TC	5.4
BPSD95-02	30	TC	5.1
BPSD95-02	36	TC	5.5
BPSD95-02	42	TC	5.3
BPSD95-02	48	TC	5.4
BPSD95-02	54	TC	4.8
BPSD95-02	60	TC	5.0
BPSD95-03	0	TC	4.7
BPSD95-03	6	TC	5.3
BPSD95-03	12	TC	5.1
BPSD95-03	18	TC	3.9
BPSD95-03	24	TC	2.9
BPSD95-03	30	TC	2.4
BPSD95-03	36	TC	2.3
BPSD95-03	42	TC	3.4
BPSD95-03	48	TC	4.0
BPSD95-03	54	TC	3.7

[a]Measurement type: DS=Delta Scintillometer, TC=Total Count Borehole

1995 Sediment Radium-226 Field Measurements

Sample Location	Depth (in.)	Type[a]	Result (pCi/g)
IPSD95-01	0	TC	7.0
IPSD95-01	6	TC	3.0
IPSD95-01	12	TC	4.0
IPSD95-01	18	TC	4.2
IPSD95-01	24	TC	3.0
IPSD95-01	30	TC	2.7
IPSD95-01	36	TC	5.0
IPSD95-01	42	TC	8.1
IPSD95-01	48	TC	7.9
IPSD95-01	54	TC	8.1
IPSD95-01	60	TC	5.5
IPSD95-01	66	TC	5.3
IPSD95-01	72	TC	9.3
IPSD95-01	78	TC	10.8
IPSD95-02	0	TC	1.6
IPSD95-02	6	TC	3.0
IPSD95-02	12	TC	6.7
IPSD95-02	18	TC	4.5
IPSD95-02	24	TC	3.6
IPSD95-02	30	TC	3.9
IPSD95-02	36	TC	3.7
IPSD95-02	42	TC	2.8
IPSD95-02	48	TC	2.3
IPSD95-02	54	TC	2.3
IPSD95-02	60	TC	4.4
IPSD95-02	66	TC	4.4
IPSD95-02	72	TC	7.4
IPSD95-02	78	TC	6.7
IPSD95-03	0	TC	1.7
IPSD95-03	6	TC	4.3
IPSD95-03	12	TC	3.6
IPSD95-03	18	TC	3.4
IPSD95-03	24	TC	3.6
IPSD95-03	30	TC	3.7
IPSD95-03	36	TC	3.9
IPSD95-03	42	TC	3.2
IPSD95-03	48	TC	3.6
IPSD95-03	54	TC	4.8

[a]Measurement type: DS=Delta Scintillometer, TC=Total Count Borehole

1995 Sediment Radium-226 Field Measurements

Sample Location	Depth (in.)	Type[a]	Result (pCi/g)
IPSD95-04	0	TC	3.1
IPSD95-04	6	TC	4.6
IPSD95-04	12	TC	3.8
IPSD95-04	18	TC	4.6
IPSD95-04	24	TC	4.0
IPSD95-04	30	TC	2.8
IPSD95-04	36	TC	2.4
IPSD95-04	42	TC	29.8
IPSD95-04	48	TC	38.6
IPSD95-04	54	TC	27.2
IPSD95-05	0	TC	3.2
IPSD95-05	6	TC	5.2
IPSD95-05	12	TC	4.2
IPSD95-05	18	TC	4.0
IPSD95-05	24	TC	4.3
IPSD95-05	30	TC	3.8
IPSD95-05	36	TC	3.8
IPSD95-05	42	TC	3.6
IPSD95-05	48	TC	4.8
IPSD95-05	54	TC	3.7
UBPSD95-01	0	TC	1.8
UBPSD95-01	6	TC	3.2
UBPSD95-01	12	TC	2.3
UBPSD95-01	18	TC	2.6
UBPSD95-01	24	TC	2.3
UBPSD95-01	30	TC	2.0
UBPSD95-01	36	TC	2.2
UBPSD95-01	42	TC	2.2
UBPSD95-01	48	TC	2.3

[a]Measurement type: DS=Delta Scintillometer, TC=Total Count Borehole

1995 Sediment Radium-226 Field Measurements

Sample Location	Depth (in.)	Type[a]	Result (pCi/g)
UBPSD95-02	0	TC	6.0
UBPSD95-02	6	TC	16.2
UBPSD95-02	12	TC	39.7
UBPSD95-02	18	TC	66.5
UBPSD95-02	24	TC	9.1
UBPSD95-02	30	TC	5.1
UBPSD95-02	36	TC	3.7
UBPSD95-02	42	TC	2.6
UBPSD95-02	48	TC	2.6
UBPSD95-02	54	TC	2.8
UBPSD95-02	60	TC	3.1
UBPSD95-02	66	TC	2.2
UBPSD95-02	72	TC	2.5
UBPSD95-03	0	TC	2.7
UBPSD95-03	6	TC	2.8
UBPSD95-03	12	TC	3.0
UBPSD95-03	18	TC	2.8
UBPSD95-03	24	TC	2.5
UBPSD95-03	36	TC	2.7
UBPSD95-03	42	TC	2.1
UBPSD95-03	48	TC	2.3
UBPSD95-03	54	TC	2.3

[a]Measurement type: DS=Delta Scintillometer, TC=Total Count Borehole

Appendix C–7

1996 Soil/Sediment Field Radiological Measurement Data

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1996 Soil/Sediment Field Radiological Measurements

Sample Location	Ra226 Meas. Type[a]	Ra226 pCi/g	Ground Gamma μR/h	Waist Gamma μR/h
Reference - Verdure				
14SD96-01 0"	TC	1.1	14	15
14SD96-01 6"	TC	2.1		
14SD96-01 12"	TC	2.1		
14SD96-01 18"	TC	2.4		
14SD96-01 24"	TC	2.9		
14SD96-01 30"	TC	3.1		
14SD96-01 36"	TC	2.9		
14SD96-02 0"	TC	1.2	14	15
14SD96-02 6"	TC	2.0		
14SD96-02 12"	TC	1.7		
14SD96-02 18"	TC	2.2		
14SD96-02 24"	TC	2.7		
14SD96-02 30"	TC	3.3		
14SD96-02 36"	TC	2.9		
Downgradient - Upper Montezuma Creek				
22SD96-02 0"	TC	5.4	18	21
22SD96-02 6"	TC	12.5		
22SD96-02 12"	TC	18.0		
22SD96-02 18"	TC	14.6		
22SD96-02 24"	TC	12.5		
22SD96-02 30"	TC	6.5		
22SD96-03 0"	TC	2.2	14	16
22SD96-03 6"	TC	4.9		
22SD96-03 12"	TC	8.1		
22SD96-03 18"	TC	8.3		
22SD96-03 24"	TC	11.0		
22SD96-03 30"	TC	13.0		
22SD96-03 36"	TC	10.0		
22SD96-03 42"	TC	8.0		
22SD96-03 48"	TC	8.0		
23SD96-02 0"	TC	2.8	32	21
23SD96-02 6"	TC	2.3		
23SD96-02 12"	TC	8.4		
23SD96-02 18"	TC	8.7		
23SD96-02 24"	TC	6.9		
23SD96-02 30"	TC	8.6		
23SD96-02 36"	TC	11.0		
23SD96-02 42"	TC	12.1		
23SD96-02 48"	TC	10.8		
23SD96-05 0"	TC	3.0	21	17
23SD96-05 6"	TC	1.6		
23SD96-05 12"	TC	2.3		
23SD96-05 18"	TC	2.7		
23SD96-05 24"	TC	3.0		
23SD96-05 30"	TC	3.5		
23SD96-05 36"	TC	2.7		
23SD96-05 42"	TC	2.6		
R1-96 0"	TC	7.6	25	23
R1-96 0"	DS	8.4		
R1-96 6"	TC	12.9		
Downgradient - Upper Montezuma Creek				
R1-96 12"	TC	51.5		
R1-96 18"	TC	70.7		
R1-96 24"	TC	50.2		
R1-96 30"	TC	.9		
R1-96 36"	TC	7.0		
R2-96 0"	TC	2.1	14.3	14.3
R2-96 0"	DS	<1.0		
R2-96 6"	TC	2.2		
R2-96 12"	TC	2.4		
R2-96 18"	TC	2.8		
R2-96 24"	TC	2.8		
R2-96 30"	TC	2.8		
R2-96 36"	TC	2.9		
R2-96 42"	TC	2.9		
R2-96 48"	TC	2.8		
R3-96 0"	TC	2.5	16	16
R3-96 0"	DS	<1.0		
R3-96 6"	TC	2.9		
R3-96 12"	TC	2.9		
R3-96 18"	TC	2.9		
R3-96 24"	TC	2.8		
R3-96 30"	TC	2.8		
R3-96 36"	TC	2.8		
R4-96 0"	TC	6.8	32	27
R4-96 0"	DS	14.0		
R4-96 6"	TC	6.8		
R4-96 12"	TC	3.1		
R4-96 18"	TC	3.4		
R4-96 24"	TC	2.7		
R4-96 27"	TC	2.9		
R5-96 0"	TC	13.3	51	42
R5-96 0"	DS	28.4		
R5-96 6"	TC	26.2		
R5-96 12"	TC	50.9		
R5-96 18"	TC	15.3		
R5-96 24"	TC	5.8		
R5-96 30"	TC	6.9		
R6-96 0"	TC	6.3	29	27
R6-96 0"	DS	9.0		
R6-96 6"	TC	8.7		
R6-96 12"	TC	3.8		
R6-96 18"	TC	4.1		
R6-96 24"	TC	4.0		
R7-96 0"	TC	37.5	81	58
R7-96 0"	DS	79.1		
R7-96 6"	TC	104.4		
R7-96 12"	TC	86.6		
R7-96 18"	TC	10.8		
R7-96 24"	TC	3.5		
R7-96 30"	TC	4.8		

[a]Radium-226 field measurement types: DS = Delta Scintillometer, OC = Soil Sample by Opposed Crystal System, TC = Total Count Borehole, SS = Soil Sample by Laboratory Analysis.

1996 Soil/Sediment Field Radiological Measurements

Sample Location	Ra226 Meas. Type[a]	Ra226 pCi/g	Ground Gamma μR/h	Waist Gamma μR/h
Downgradient - Upper Montezuma Creek				
R8-96 0"	TC	6.6	27	25
R8-96 0"	DS	10.9		
R8-96 6"	TC	12.4		
R8-96 12"	TC	10.1		
R8-96 18"	TC	3.3		
R8-96 24"	TC	4.5		
R9-96 0"	TC	2.6	15	16
R9-96 0"	DS	<1.0		
R9-96 6"	TC	2.7		
R9-96 12"	TC	2.9		
R9-96 18"	TC	2.7		
R9-96 24"	TC	2.6		
R9-96 30"	TC	2.6		
R9-96 36"	TC	2.7		
R9-96 42"	TC	2.7		
R9-96 48"	TC	2.7		
R10-96 0"	TC	5.5	29	25
R10-96 0"	DS	13.5		
R10-96 6"	TC	8.4		
R10-96 12"	TC	3.6		
R10-96 18"	TC	5.0		
R10-96 24"	TC	3.5		
R10-96 30"	TC	3.2		
R11-96 0"	TC	29.6	88	58
R11-96 0"	DS	83.4		
R11-96 6"	TC	108.6		
R11-96 12"	TC	44.4		
R11-96 18"	TC	3.4		
R11-96 24"	TC	2.3		
R11-96 30"	TC	4.2		
R12-96 0"	TC	4.3	30	21
R12-96 0"	DS	5.9		
R12-96 6"	TC	6.0		
R12-96 12"	TC	4.1		
R12-96 18"	TC	3.3		
R12-96 24"	TC	3.3		
R12-96 30"	TC	3.0		
R12-96 36"	TC	3.4		
R12-96 42"	TC	2.9		
R13-96 0"	TC	4.1	23	19
R13-96 0"	DS	5.5		
R13-96 6"	TC	8.0		
R13-96 12"	TC	4.2		
R13-96 18"	TC	3.4		
R13-96 24"	TC	3.3		
R13-96 30"	TC	3.3		
R13-96 36"	TC	3.0		
R13-96 42"	TC	3.1		
R14-96 0"	TC	2.6	16	16
R14-96 0"	DS	1.1		
Downgradient - Upper Montezuma Creek				
R14-96 6"	TC	3.1		
R14-96 12"	TC	3.2		
R14-96 18"	TC	3.4		
R14-96 24"	TC	3.2		
R14-96 30"	TC	3.2		
R14-96 36"	TC	3.1		
R15-96 0"	TC	3.6	21	18
R15-96 0"	DS	6.9		
R15-96 6"	TC	3.9		
R15-96 12"	TC	2.9		
R15-96 18"	TC	2.6		
R15-96 24"	TC	2.6		
R15-96 30"	TC	2.6		
R16-96 0"	TC	14.2	44	36
R16-96 0"	DS	23.7		
R16-96 6"	TC	34.4		
R16-96 12"	TC	3.7		
R16-96 18"	TC	3.5		
R16-96 24"	TC	3.3		
R16-96 30"	TC	3.0		
R16-96 36"	TC	3.2		
R17-96 0"	TC	5.9	29	25
R17-96 0"	DS	20.7		
R17-96 6"	TC	7.5		
R17-96 12"	TC	4.5		
R17-96 18"	TC	3.5		
R17-96 24"	TC	3.4		
R17-96 30"	TC	3.2		
R17-96 36"	TC	3.8		
R17-96 42"	TC	3.7		
R17-96 48"	TC	3.6		
R17-96 54"	TC	3.4		
R17-96 60"	TC	2.9		
R17-96 66"	TC	3.2		
R39-96 0"	TC	5.2		
R39-96 0"	DS	5.0		
R39-96 6"	TC	7.7		
R39-96 12"	TC	11.0		
R39-96 18"	TC	9.1		
R39-96 24"	TC	6.8		
R39-96 30"	TC	9.7		
R39-96 36"	TC	12.0		
R39-96 42"	TC	12.1		
R39-96 48"	TC	12.1		
R39-96 54"	TC	8.3		
R39-96 60"	TC	5.2		
R39-96 66"	TC	5.5		
R92-96 0"	TC	15.2	55	44
R92-96 0"	DS	36.3		
R92-96 6"	TC	38.0		

[a]Radium-226 field measurement types: DS = Delta Scintillometer, OC = Soil Sample by Opposed Crystal System, TC = Total Count Borehole, SS = Soil Sample by Laboratory Analysis.

1996 Soil/Sediment Field Radiological Measurements

Sample Location	Ra226 Meas. Type[a]	Ra226 pCi/g	Ground Gamma μR/h	Waist Gamma μR/h
Downgradient - Upper Montezuma Creek				
R92-96 12"	TC	46.4		
R92-96 18"	TC	83.1		
R92-96 24"	TC	93.7		
R92-96 30"	TC	15.1		
R92-96 36"	TC	13.2		
R93-96 0"	TC	8.5	36	30
R93-96 0"	DS	18.2		
R93-96 6"	TC	17.0		
R93-96 12"	TC	12.5		
R93-96 18"	TC	5.4		
R93-96 24"	TC	4.8		
R93-96 30"	TC	3.3		
R93-96 36"	TC	3.4		
R94-96 0"	TC	2.9	16	17
R94-96 0"	DS	1.6		
R94-96 6"	TC	3.3		
R94-96 12"	TC	3.8		
R94-96 18"	TC	4.0		
R94-96 24"	TC	3.9		
R94-96 30"	TC	3.9		
R94-96 36"	TC	3.8		
R95-96 0"	TC	18.7	40	34
R95-96 0"	DS	18.2		
R95-96 6"	TC	44.8		
R95-96 12"	TC	53.5		
R95-96 18"	TC	13.1		
R95-96 24"	TC	4.9		
R95-96 30"	TC	2.7		
R95-96 36"	TC	4.2		
R96-96 0"	TC	2.5	15	15
R96-96 0"	DS	<1.0		
R96-96 6"	TC	3.2		
R96-96 12"	TC	3.6		
R96-96 18"	TC	3.3		
R96-96 24"	TC	3.3		
R96-96 30"	TC	3.3		
R96-96 36"	TC	3.3		
R97-96 0"	TC	4.2	21	22
R97-96 0"	DS	5.1		
R97-96 6"	TC	6.6		
R97-96 12"	TC	5.9		
R97-96 18"	TC	4.0		
R97-96 24"	TC	4.2		
R97-96 30"	TC	3.9		
R97-96 36"	TC	3.7		
R98-96 0"	TC	2.6	14	15
R98-96 0"	DS	1.3		
R98-96 6"	TC	3.1		
R98-96 12"	TC	3.7		
R98-96 18"	TC	3.4		
Downgradient - Upper Montezuma Creek				
R98-96 24"	TC	3.3		
R98-96 30"	TC	3.6		
R98-96 36"	TC	3.7		
R99-96 0"	TC	26.9	96	73
R99-96 0"	DS	64.1		
R99-96 6"	TC	64.2		
R99-96 12"	TC	89.5		
R99-96 18"	TC	71.0		
R99-96 24"	TC	25.0		
R99-96 30"	TC	10.4		
R99-96 36"	TC	9.5		
R99-96 42"	TC	8.6		
R100-96 0"	TC	13.3	51	51
R100-96 0"	DS	32.8		
R100-96 6"	TC	31.5		
R100-96 12"	TC	25.1		
R100-96 18"	TC	7.2		
R100-96 24"	TC	5.5		
R100-96 30"	TC	4.0		
R100-96 36"	TC	4.9		
R101-96 0"	TC	2.8	17	16
R101-96 0"	DS	1.6		
R101-96 6"	TC	4.0		
R101-96 12"	TC	4.0		
R101-96 18"	TC	4.3		
R101-96 24"	TC	4.1		
R101-96 30"	TC	3.9		
R101-96 36"	TC	3.6		
R102-96 0"	TC	3.1	18	18
R102-96 0"	DS	1.7		
R102-96 6"	TC	3.7		
R102-96 12"	TC	4.1		
R102-96 18"	TC	3.6		
R102-96 24"	TC	3.8		
R102-96 30"	TC	3.5		
R102-96 36"	TC	3.4		
R103-96 0"	TC	22.3	73	66
R103-96 0"	DS	49.6		
R103-96 6"	TC	42.7		
R103-96 12"	TC	38.5		
R103-96 18"	TC	12.0		
R103-96 24"	TC	8.3		
R103-96 30"	TC	7.1		
R103-96 36"	TC	7.0		
R104-96 0"	TC	4.3	25	23
R104-96 0"	DS	5.4		
R104-96 6"	TC	6.1		
R104-96 12"	TC	6.1		
R104-96 18"	TC	4.9		
R104-96 24"	TC	4.4		

[a]Radium-226 field measurement types: DS = Delta Scintillometer, OC = Soil Sample by Opposed Crystal System, TC = Total Count Borehole, SS = Soil Sample by Laboratory Analysis.

1996 Soil/Sediment Field Radiological Measurements

Sample Location	Ra226 Meas. Type[a]	Ra226 pCi/g	Ground Gamma μR/h	Waist Gamma μR/h
Downgradient - Upper Montezuma Creek				
R104-96 30"	TC	4.2		
R104-96 36"	TC	3.8		
R105-96 0"	TC	2.1	17	16
R105-96 0-6"	OC	2.8		
R105-96 0"	DS	2.0		
R105-96 6"	TC	3.4		
R105-96 12"	TC	3.1		
R105-96 18"	TC	2.9		
R105-96 24"	TC	3.0		
R105-96 30"	TC	3.4		
R106-96 0"	TC	23.1	73	55
R106-96 0"	DS	47.9		
R106-96 6"	TC	61.6		
R106-96 12"	TC	97.5		
R106-96 18"	TC	29.6		
R106-96 24"	TC	13.3		
R106-96 30"	TC	9.3		
R107-96 0"	TC	21.6	66	44
R107-96 0"	DS	44.8		
R107-96 6"	TC	56.6		
R107-96 12"	TC	110.1		
R107-96 18"	TC	39.2		
R107-96 24"	TC	8.3		
R107-96 30"	TC	3.2		
R107-96 36"	TC	4.3		
R108-96 0"	TC	2.3	17	15
R108-96 0"	DS	<1.0		
R108-96 6"	TC	2.4		
R108-96 12"	TC	2.6		
R108-96 18"	TC	2.8		
R108-96 24"	TC	2.5		
R108-96 30"	TC	2.7		
R109-96 0"	TC	9.9	32	30
R109-96 0"	DS	15.5		
R109-96 6"	TC	21.0		
R109-96 12"	TC	33.2		
R109-96 18"	TC	25.2		
R109-96 24"	TC	21.0		
R109-96 30"	TC	22.3		
R109-96 36"	TC	7.9		
R110-96 0"	TC	4.3	25	23
R110-96 0"	DS	6.7		
R110-96 6"	TC	5.7		
R110-96 12"	TC	8.2		
R110-96 18"	TC	10.2		
R110-96 24"	TC	10.8		
R110-96 30"	TC	19.9		
R110-96 36"	TC	15.9		
R110-96 42"	TC	8.2		
R110-96 48"	TC	7.1		
Downgradient - Upper Montezuma Creek				
R111-96 0"	TC	36.5	126	103
R111-96 0"	DS	81.6		
R111-96 6"	TC	88.6		
R111-96 12"	TC	107.9		
R111-96 18"	TC	61.7		
R111-96 24"	TC	26.6		
R111-96 30"	TC	13.1		
R111-96 36"	TC	9.8		
R112-96 0"	TC	37.6	133	103
R112-96 0"	DS	95.8		
R112-96 6"	TC	83.6		
R112-96 12"	TC	80.8		
R112-96 18"	TC	29.3		
R112-96 24"	TC	18.7		
R112-96 30"	TC	13.1		
R112-96 36"	TC	7.1		
R113-96 0"	TC	16.1	81	55
R113-96 0"	DS	71.3		
R113-96 6"	TC	23.3		
R113-96 12"	TC	13.3		
R113-96 18"	TC	12.4		
R113-96 24"	TC	12.5		
R113-96 30"	TC	12.5		
R113-96 36"	TC	5.5		
R114-96 0"	TC	31.0	96	81
R114-96 0"	DS	70.4		
R114-96 6"	TC	68.2		
R114-96 12"	TC	81.6		
R114-96 18"	TC	34.6		
R114-96 24"	TC	6.9		
R114-96 30"	TC	7.8		
R114-96 36"	TC	6.3		
R115-96 0"	TC	18.5	77	55
R115-96 0"	DS	54.6		
R115-96 6"	TC	28.6		
R115-96 12"	TC	19.2		
R115-96 18"	TC	9.9		
R115-96 24"	TC	6.2		
R115-96 30"	TC	5.9		
R115-96 36"	TC	5.7		
R116-96 0"	TC	1.8	17	17
R116-96 0"	DS	1.3		
R116-96 6"	TC	3.1		
R116-96 12"	TC	3.4		
R116-96 18"	TC	2.7		
R116-96 24"	TC	2.8		
R117-96 0"	TC	20.7	81	58
R117-96 0"	DS	40.8		
R117-96 6"	TC	70.9		
R117-96 12"	TC	94.9		

[a]Radium-226 field measurement types: DS = Delta Scintillometer, OC = Soil Sample by Opposed Crystal System, TC = Total Count Borehole, SS = Soil Sample by Laboratory Analysis.

1996 Soil/Sediment Field Radiological Measurements

Sample Location	Ra226 Meas. Type[a]	Ra226 pCi/g	Ground Gamma µR/h	Waist Gamma µR/h
Downgradient - Upper Montezuma Creek				
R117-96 18"	TC	11.5		
R117-96 24"	TC	6.5		
R117-96 30"	TC	4.7		
R118-96 0"	TC	2.6	16	16
R118-96 0"	DS	<1.0		
R118-96 6"	TC	3.4		
R118-96 12"	TC	3.5		
R118-96 18"	TC	3.4		
R118-96 24"	TC	3.4		
R118-96 30"	TC	3.3		
R118-96 36"	TC	3.2		
R119-96 0"	TC	21.5	47	36
R119-96 0"	DS	22.0		
R119-96 6"	TC	27.7		
R119-96 12"	TC	89.5		
R119-96 18"	TC	82.0		
R119-96 24"	TC	4.5		
R119-96 30"	TC	2.6		
R119-96 36"	TC	5.8		
R120-96 0"	TC	11.4	44	27
R120-96 0"	DS	25.9		
R120-96 6"	TC	40.2		
R120-96 12"	TC	15.9		
R120-96 18"	TC	7.5		
R120-96 24"	TC	4.6		
R120-96 30"	TC	3.4		
R120-96 36"	TC	3.1		
R121-96 0"	TC	5.0	25	23
R121-96 0"	DS	7.4		
R121-96 6"	TC	7.6		
R121-96 12"	TC	5.2		
R121-96 18"	TC	5.0		
R121-96 24"	TC	4.9		
R121-96 30"	TC	4.6		
R121-96 36"	TC	4.2		
R122-96 0"	TC	4.3	23	19
R122-96 0"	DS	6.6		
R122-96 6"	TC	8.6		
R122-96 12"	TC	14.6		
R122-96 18"	TC	4.2		
R122-96 24"	TC	5.4		
R122-96 30"	TC	4.5		
R122-96 36"	TC	4.4		
R123-96 0"	TC	6.6	29	23
R123-96 0"	DS	12.7		
R123-96 6"	TC	15.4		
R123-96 12"	TC	22.9		
R123-96 18"	TC	8.9		
R123-96 24"	TC	5.8		
R123-96 30"	TC	6.2		
Downgradient - Upper Montezuma Creek				
R123-96 36"	TC	7.2		
R123-96 42"	TC	7.0		
R123-96 48"	TC	6.7		
R123-96 54"	TC	6.2		
R123-96 60"	TC	4.5		
R123-96 66"	TC	4.7		
R124-96 0"	TC	1.8	15	15
R124-96 0"	DS	<1.0		
R124-96 6"	TC	3.1		
R124-96 12"	TC	3.2		
R124-96 18"	TC	3.5		
R124-96 24"	TC	1.1		
R124-96 30"	TC	3.5		
R124-96 36"	TC	3.1		
R125-96 0"	TC	6.1	36	29
R125-96 0"	DS	28.2		
R125-96 6"	TC	25.8		
R125-96 12"	TC	36.3		
R125-96 18"	TC	2.8		
R125-96 24"	TC	2.8		
R125-96 30"	TC	2.6		
R125-96 36"	TC	2.6		
R125-96 42"	TC	2.6		
R125-96 48"	TC	2.0		
R125-96 54"	TC	2.7		
R125-96 60"	TC	2.1		
R125-96 66"	TC	2.0		
R125-96 72"	TC	2.5		
R125-96 78"	TC	2.6		
R125-96 84"	TC	2.3		
R126-96 0"	TC	2.8	16	16
R126-96 0"	DS	1.5		
R126-96 6"	TC	3.9		
R126-96 12"	TC	3.9		
R126-96 18"	TC	3.9		
R126-96 24"	TC	3.6		
R126-96 30"	TC	3.3		
R126-96 36"	TC	3.5		
R127-96 0"	TC	3.5	20	18
R127-96 0-6"	OC	6.5		
R127-96 0"	DS	4.1		
R127-96 6"	TC	5.3		
R127-96 12"	TC	4.2		
R127-96 18"	TC	3.7		
R127-96 24"	TC	3.6		
R127-96 30"	TC	1.7		
R127-96 36"	TC	2.2		
R128-96 0"	TC	2.9	17	17
R128-96 0"	DS	1.1		
R128-96 6"	TC	3.4		

[a]Radium-226 field measurement types: DS = Delta Scintillometer, OC = Soil Sample by Opposed Crystal System, TC = Total Count Borehole, SS = Soil Sample by Laboratory Analysis.

1996 Soil/Sediment Field Radiological Measurements

Sample Location	Ra226 Meas. Type[a]	Ra226 pCi/g	Ground Gamma μR/h	Waist Gamma μR/h
Downgradient - Upper Montezuma Creek				
R128-96 12"	TC	4.0		
R128-96 18"	TC	3.8		
R128-96 24"	TC	3.7		
R128-96 30"	TC	3.6		
R128-96 36"	TC	3.6		
R129-96 0"	TC	10.5	36	32
R129-96 0"	DS	11.5		
R129-96 6"	TC	18.7		
R129-96 12"	TC	11.1		
R129-96 18"	TC	4.9		
R129-96 24"	TC	3.6		
R129-96 30"	TC	2.9		
R129-96 36"	TC	3.0		
R130-96 0"	TC	13.1	51	42
R130-96 0"	DS	14.9		
R130-96 6"	TC	22.7		
R130-96 12"	TC	8.4		
R130-96 18"	TC	5.7		
R130-96 24"	TC	5.0		
R130-96 30"	TC	4.1		
R130-96 36"	TC	3.5		
R131-96 0"	TC	3.8	20	18
R131-96 0-6"	OC	6.2		
R131-96 0"	DS	3.2		
R131-96 6"	TC	4.8		
R131-96 12"	TC	4.2		
R131-96 18"	TC	3.8		
R131-96 24"	TC	4.0		
R131-96 30"	TC	3.7		
R131-96 36"	TC	3.6		
R132-96 0"	TC	3.1	17	17
R132-96 0"	DS	1.6		
R132-96 6"	TC	3.3		
R132-96 12"	TC	3.6		
R132-96 18"	TC	3.9		
R132-96 24"	TC	3.8		
R132-96 30"	TC	3.8		
R132-96 36"	TC	3.8		
R133-96 0"	TC	17.3	51	36
R133-96 0"	DS	37.0		
R133-96 6"	TC	20.0		
R133-96 12"	TC	6.8		
R133-96 18"	TC	10.6		
R133-96 24"	TC	13.2		
R133-96 30"	TC	24.4		
R133-96 36"	TC	22.6		
R133-96 42"	TC	35.4		
R133-96 48"	TC	60.5		
R133-96 54"	TC	36.9		
R133-96 60"	TC	36.3		
Downgradient - Upper Montezuma Creek				
R133-96 66"	TC	22.6		
R133-96 72"	TC	23.8		
R133-96 78"	TC	20.6		
R133-96 84"	TC	14.0		
R134-96 0"	TC	23.5	58	47
R134-96 0"	DS	38.5		
R134-96 6"	TC	53.6		
R134-96 12"	TC	10.1		
R134-96 18"	TC	3.4		
R134-96 24"	TC	3.5		
R134-96 30"	TC	3.2		
R134-96 36"	TC	3.4		
R135-96 0"	TC	4.0	20	18
R135-96 0"	DS	6.8		
R135-96 6"	TC	4.6		
R135-96 12"	TC	4.9		
R135-96 18"	TC	2.8		
R135-96 24"	TC	2.9		
R135-96 30"	TC	3.0		
R135-96 36"	TC	2.9		
R136-96 0"	TC	1.7	15	14
R136-96 0"	DS	<1.0		
R136-96 6"	TC	2.2		
R136-96 12"	TC	3.0		
R136-96 18"	TC	2.8		
R136-96 24"	TC	2.7		
R136-96 30"	TC	2.5		
R137-96 0"	TC	35.9	111	73
R137-96 0"	DS	76.6		
R137-96 6"	TC	24.7		
R137-96 12"	TC	7.1		
R137-96 18"	TC	3.0		
R137-96 24"	TC	4.6		
R137-96 30"	TC	4.3		
R138-96 0"	TC	28.0	77	55
R138-96 0"	DS	61.7		
R138-96 6"	TC	29.8		
R138-96 12"	TC	9.5		
R138-96 18"	TC	7.0		
R138-96 24"	TC	4.7		
R138-96 30"	TC	4.1		
R138-96 36"	TC	3.7		
R139-96 0"	TC	2.8	17	16
R139-96 0"	DS	1.5		
R139-96 6"	TC	4.0		
R139-96 12"	TC	3.7		
R139-96 18"	TC	3.3		
R139-96 24"	TC	3.4		
R139-96 30"	TC	3.4		
R140-96 0"	TC	36.1	156	103

[a]Radium-226 field measurement types: DS = Delta Scintillometer, OC = Soil Sample by Opposed Crystal System, TC = Total Count Borehole, SS = Soil Sample by Laboratory Analysis.

1996 Soil/Sediment Field Radiological Measurements

Sample Location	Ra226 Meas. Type[a]	Ra226 pCi/g	Ground Gamma μR/h	Waist Gamma μR/h
Downgradient - Upper Montezuma Creek				
R140-96 0"	DS	140.4		
R140-96 6"	TC	101.2		
R140-96 12"	TC	178.7		
R140-96 18"	TC	58.3		
R140-96 24"	TC	39.5		
R140-96 30"	TC	12.0		
R140-96 36"	TC	10.6		
R140-96 42"	TC	8.8		
R141-96 0"	TC	4.6	25	27
R141-96 0"	DS	7.7		
R141-96 6"	TC	5.7		
R141-96 12"	TC	7.6		
R141-96 18"	TC	10.7		
R141-96 24"	TC	11.1		
R141-96 30"	TC	7.0		
R141-96 36"	TC	4.9		
R142-96 0"	TC	2.8	16	17
R142-96 0"	DS	1.8		
R142-96 6"	TC	3.3		
R142-96 12"	TC	3.8		
R142-96 18"	TC	4.0		
R142-96 24"	TC	3.8		
R142-96 30"	TC	3.6		
R142-96 36"	TC	3.5		
R143-96 0"	TC	1.6	15	15
R143-96 0"	DS	<1.0		
R143-96 6"	TC	2.2		
R143-96 12"	TC	2.1		
R143-96 18"	TC	2.2		
R143-96 24"	TC	2.4		
R143-96 30"	TC	2.5		
R144-96 0"	TC	2.6	16	17
R144-96 0"	DS	1.8		
R144-96 6"	TC	4.2		
R144-96 12"	TC	3.8		
R144-96 18"	TC	2.6		
R144-96 24"	TC	2.6		
R144-96 30"	TC	2.9		
R145-96 0"	TC	5.9	36	23
R145-96 0"	DS	10.2		
R145-96 6"	TC	24.8		
R145-96 12"	TC	21.5		
R145-96 18"	TC	3.5		
R145-96 24"	TC	5.7		
R145-96 30"	TC	5.9		
R146-96 0"	TC	32.8	73	58
R146-96 0"	DS	58.6		
R146-96 6"	TC	69.5		
R146-96 12"	TC	49.2		
R146-96 18"	TC	16.7		
Downgradient - Upper Montezuma Creek				
R146-96 24"	TC	9.2		
R146-96 30"	TC	6.3		
R147-96 0"	TC	23.5	47	44
R147-96 0"	DS	28.1		
R147-96 6"	TC	38.7		
R147-96 12"	TC	82.9		
R147-96 18"	TC	65.6		
R147-96 24"	TC	31.5		
R147-96 30"	TC	16.8		
R147-96 36"	TC	9.6		
R148-96 0"	TC	14.4	40	38
R148-96 0"	DS	19.5		
R148-96 6"	TC	26.8		
R148-96 12"	TC	48.4		
R148-96 18"	TC	23.4		
R148-96 24"	TC	12.6		
R148-96 30"	TC	6.6		
R148-96 36"	TC	4.0		
R149-96 0"	TC	12.1	44	36
R149-96 0"	DS	23.9		
R149-96 6"	TC	19.5		
R149-96 12"	TC	9.3		
R149-96 18"	TC	7.0		
R149-96 24"	TC	6.0		
R149-96 30"	TC	4.5		
R149-96 36"	TC	4.2		
R150-96 0"	TC	31.7	73	58
R150-96 0"	DS	42.0		
R150-96 6"	TC	56.2		
R150-96 12"	TC	63.8		
R150-96 18"	TC	119.2		
R150-96 24"	TC	117.1		
R150-96 30"	TC	30.9		
R150-96 36"	TC	7.7		
R150-96 42"	TC	5.9		
R151-96 0"	TC	6.0	25	23
R151-96 0"	DS	9.4		
R151-96 6"	TC	10.4		
R151-96 12"	TC	10.2		
R151-96 18"	TC	19.3		
R151-96 24"	TC	14.5		
R151-96 30"	TC	3.5		
R151-96 36"	TC	3.3		
R151-96 42"	TC	3.8		
R151-96 48"	TC	3.2		
R152-96 0"	TC	23.5	81	66
R152-96 0"	DS	59.3		
R152-96 6"	TC	39.4		
R152-96 12"	TC	10.0		
R152-96 18"	TC	6.0		

[a]Radium-226 field measurement types: DS = Delta Scintillometer, OC = Soil Sample by Opposed Crystal System, TC = Total Count Borehole, SS = Soil Sample by Laboratory Analysis.

1996 Soil/Sediment Field Radiological Measurements

Sample Location	Ra226 Meas. Type[a]	Ra226 pCi/g	Ground Gamma μR/h	Waist Gamma μR/h
Downgradient - Upper Montezuma Creek				
R152-96 24"	TC	5.2		
R153-96 0"	TC	22.1	70	55
R153-96 0"	DS	48.2		
R153-96 6"	TC	36.1		
R153-96 12"	TC	21.7		
R153-96 18"	TC	6.5		
R153-96 24"	TC	6.8		
R154-96 0"	TC	17.7	44	21
R154-96 0"	DS	30.0		
R154-96 6"	TC	39.2		
R154-96 12"	TC	9.7		
R154-96 18"	TC	4.0		
R154-96 24"	TC	3.5		
R154-96 30"	TC	3.3		
R155-96 0"	TC	21.5	70	47
R155-96 0"	DS	59.6		
R155-96 6"	TC	31.0		
R155-96 12"	TC	26.7		
R155-96 18"	TC	10.8		
R155-96 24"	TC	5.5		
R155-96 30"	TC	5.0		
R156-96 0"	TC	17.2	55	51
R156-96 0"	DS	30.9		
R156-96 6"	TC	43.2		
R156-96 12"	TC	36.3		
R156-96 18"	TC	14.3		
R156-96 24"	TC	7.1		
R156-96 30"	TC	6.0		
R157-96 0"	TC	3.2	19	18
R157-96 0"	DS	<1.0		
R157-96 6"	TC	3.9		
R157-96 12"	TC	4.0		
R157-96 18"	TC	3.5		
R157-96 24"	TC	3.5		
R158-96 0"	TC	5.1	23	21
R158-96 0"	DS	9.3		
R158-96 6"	TC	7.9		
R158-96 12"	TC	6.6		
R158-96 18"	TC	5.8		
R158-96 24"	TC	5.5		
R159-96 0"	TC	4.3	44	36
R159-96 0"	DS	38.1		
R159-96 6"	TC	13.4		
R159-96 12"	TC	4.3		
R159-96 18"	TC	3.9		
R159-96 24"	TC	3.5		
R160-96 0"	TC	2.6	17	17
R160-96 0"	DS	1.3		
R160-96 6"	TC	3.3		
R160-96 12"	TC	3.6		
Downgradient - Upper Montezuma Creek				
R160-96 18"	TC	5.4		
R160-96 24"	TC	7.7		
R160-96 30"	TC	9.6		
R160-96 36"	TC	9.4		
R160-96 42"	TC	10.2		
R160-96 48"	TC	11.2		
R160-96 54"	TC	6.6		
R160-96 60"	TC	6.4		
R161-96 0"	TC	8.7	30	27
R161-96 0"	DS	11.5		
R161-96 6"	TC	19.5		
R161-96 12"	TC	68.4		
R161-96 18"	TC	21.2		
R161-96 24"	TC	6.6		
R161-96 30"	TC	10.4		
R161-96 36"	TC	5.6		
R162-96 0"	TC	1.7	16	15
R162-96 0"	DS	<1.0		
R162-96 6"	TC	2.3		
R162-96 12"	TC	3.0		
R162-96 18"	TC	3.2		
R162-96 24"	TC	3.0		
R162-96 30"	TC	2.9		
R163-96 0"	TC	3.0	16	16
R163-96 0-6"	OC	3.5		
R163-96 0"	DS	2.4		
R163-96 6"	TC	4.0		
R163-96 12"	TC	4.2		
R163-96 18"	TC	4.8		
R163-96 24"	TC	4.1		
R163-96 30"	TC	4.4		
R163-96 36"	TC	3.7		
R164-96 0"	TC	2.6	15	15
R164-96 0"	DS	1.1		
R164-96 6"	TC	3.2		
R164-96 12"	TC	3.4		
R164-96 18"	TC	3.8		
R164-96 24"	TC	3.2		
R164-96 30"	TC	3.6		
R165-96 0"	TC	8.8	36	29
R165-96 0"	DS	16.1		
R165-96 6"	TC	14.4		
R165-96 12"	TC	8.0		
R165-96 18"	TC	6.6		
R165-96 24"	TC	5.9		
R165-96 30"	TC	3.8		
R165-96 36"	TC	4.3		
R166-96 0"	TC	2.9	17	16
R166-96 0"	DS	1.9		
R166-96 6"	TC	4.0		

[a]Radium-226 field measurement types: DS = Delta Scintillometer, OC = Soil Sample by Opposed Crystal System, TC = Total Count Borehole, SS = Soil Sample by Laboratory Analysis.

1996 Soil/Sediment Field Radiological Measurements

Sample Location	Ra226 Meas. Type[a]	Ra226 pCi/g	Ground Gamma μR/h	Waist Gamma μR/h
Downgradient - Upper Montezuma Creek				
R166-96 12"	TC	3.9		
R166-96 18"	TC	3.7		
R166-96 24"	TC	3.7		
R166-96 30"	TC	3.6		
R167-96 0"	TC	5.3	25	19
R167-96 0"	DS	9.2		
R167-96 6"	TC	4.5		
R167-96 12"	TC	3.5		
R167-96 18"	TC	3.7		
R167-96 24"	TC	3.6		
R167-96 30"	TC	3.6		
R168-96 0"	TC	3.9	20	18
R168-96 0-6"	OC	6.9		
R168-96 0"	DS	4.5		
R168-96 6"	TC	6.2		
R168-96 12"	TC	4.6		
R168-96 18"	TC	3.7		
R168-96 24"	TC	4.0		
R168-96 30"	TC	4.2		
R168-96 36"	TC	4.0		
R169-96 0"	TC	8.4	25	21
R169-96 0"	DS	8.0		
R169-96 6"	TC	9.3		
R169-96 12"	TC	41.3		
R169-96 18"	TC	175.3		
R169-96 24"	TC	181.7		
R169-96 30"	TC	63.0		
R169-96 36"	TC	4.7		
R169-96 42"	TC	12.4		
R169-96 48"	TC	8.6		
R169-96 54"	TC	3.2		
R169-96 60"	TC	3.0		
R170-96 0"	TC	13.9	29	23
R170-96 0"	DS	14.9		
R170-96 6"	TC	24.2		
R170-96 12"	TC	40.1		
R170-96 18"	TC	67.5		
R170-96 24"	TC	146.3		
R170-96 30"	TC	134.7		
R170-96 36"	TC	64.0		
R170-96 42"	TC	24.0		
R170-96 48"	TC	5.6		
R170-96 54"	TC	6.7		
R171-96 0"	TC	4.9	25	18
R171-96 0"	DS	12.0		
R171-96 6"	TC	7.1		
R171-96 12"	TC	4.3		
R171-96 18"	TC	3.6		
R171-96 24"	TC	4.0		
R171-96 30"	TC	3.7		
Downgradient - Upper Montezuma Creek				
R171-96 36"	TC	3.6		
R172-96 0"	TC	7.8	32	25
R172-96 0"	DS	14.0		
R172-96 6"	TC	11.7		
R172-96 12"	TC	5.8		
R172-96 18"	TC	4.8		
R172-96 24"	TC	5.3		
R172-96 30"	TC	4.7		
R172-96 36"	TC	4.6		
R173-96 0"	TC	5.3	21	18
R173-96 0"	DS	7.1		
R173-96 6"	TC	6.9		
R173-96 12"	TC	5.0		
R173-96 18"	TC	4.1		
R173-96 24"	TC	4.0		
R173-96 30"	TC	3.7		
R173-96 36"	TC	3.3		
R174-96 0"	TC	2.6	16	15
R174-96 0"	DS	1.0		
R174-96 6"	TC	4.0		
R174-96 12"	TC	4.2		
R174-96 18"	TC	5.0		
R174-96 24"	TC	3.8		
R174-96 30"	TC	3.9		
R174-96 36"	TC	3.4		
R175-96 0"	TC	7.1	30	21
R175-96 0"	DS	14.1		
R175-96 6"	TC	20.5		
R175-96 12"	TC	13.9		
R175-96 18"	TC	4.4		
R175-96 24"	TC	3.8		
R175-96 30"	TC	4.0		
R176-96 0"	TC	5.5	30	29
R176-96 0"	DS	11.5		
R176-96 6"	TC	8.3		
R176-96 12"	TC	10.4		
R176-96 18"	TC	6.3		
R176-96 24"	TC	4.4		
R176-96 30"	TC	3.3		
R176-96 36"	TC	3.3		
W48 0-6"	SS	1.0		
W48 0"	DS	2.6		
W48 6"	DS	3.8		
W51 0-6"	SS	3.0		
W51 0"	DS	<1.0		
W51 12-18"	SS	6.0		
W60 0-6"	SS	40.0		
W60 0"	DS	28.0		
W60 6-12"	SS	67.0		
W60 6"	DS	33.3		

[a]Radium-226 field measurement types: DS = Delta Scintillometer, OC = Soil Sample by Opposed Crystal System, TC = Total Count Borehole, SS = Soil Sample by Laboratory Analysis.

1996 Soil/Sediment Field Radiological Measurements

Sample Location	Ra226 Meas. Type[a]	Ra226 pCi/g	Ground Gamma μR/h	Waist Gamma μR/h
Downgradient - Upper Montezuma Creek				
W60 12"	DS	9.4		
W60 18"	DS	8.5		
W61 0-6"	SS	6.0		
W61 0"	DS	4.6		
W61 6"	DS	5.2		
W65 0-6"	SS	2.0		
W65 0"	DS	1.7		
W66 0"	DS	13.2		
W66 6"	DS	8.2		
W67 0"	DS	12.2		
W67 6"	DS	1.6		
W73 0"	TC	4.8		
W73 0"	DS	8.2		
W73 6"	TC	5.6		
W73 12"	TC	7.6		
W73 18"	TC	19.8		
W73 24"	TC	25.7		
W73 30"	TC	24.4		
W73 36"	TC	13.7		
W73 42"	TC	6.7		
W73 48"	TC	4.9		
W73 54"	TC	5.3		
W77 0-6"	SS	3.0		
W77 0"	DS	4.8		
W77 6-12"	SS	2.0		
W77 6"	DS	6.0		
W77 12"	DS	4.5		
W82 0-6"	SS	2.0		
W82 0"	DS	2.8		
W82 6"	DS	2.7		
W83 0"	TC	7.1		
W83 0-6"	SS	13.0		
W83 0"	DS	11.2		
W83 6"	TC	9.2		
W83 6-12"	SS	19.0		
W83 6"	DS	17.9		
W83 12"	TC	4.8		
W83 12"	DS	11.8		
W83 18"	TC	2.9		
W83 22"	TC	3.0		
W84 0-6"	SS	2.0		
W84 0"	DS	10.9		
W84 6"	DS	4.4		
W89 0"	DS	14.9		
W89 6"	DS	3.8		
W92 0-6"	SS	131.0		
W92 0"	DS	63.6		
W92 6-12"	SS	42.0		
W92 6"	DS	22.5		
W92 12-18"	SS	6.0		
Downgradient - Upper Montezuma Creek				
W92 12"	DS	8.4		
W92 18"	DS	6.7		
W94 0-6"	SS	12.0		
W94 0"	DS	7.4		
W94 6"	DS	7.6		
W95 0"	DS	9.7		
W95 6"	DS	4.6		
W96 0-6"	SS	25.0		
W96 0"	DS	22.6		
W96 6-12"	SS	103.0		
W96 6"	DS	62.5		
W96 12"	DS	7.1		
W98 0-6"	SS	10.0		
W98 0"	DS	9.3		
W98 6"	DS	5.5		
W99 0-6"	SS	3.0		
W99 0"	DS	3.0		
W99 6"	DS	2.9		
W105 0"	TC	3.8		
W105 0"	DS	5.0		
W105 6"	TC	5.5		
W105 12"	TC	4.2		
W112 0-6"	SS	4.0		
W112 0"	DS	4.7		
W112 6"	DS	5.0		
Downgradient - Middle Montezuma Creek				
R18-96 0"	TC	2.9	17	16
R18-96 0-6"	OC	4.4		
R18-96 0"	DS	2.1		
R18-96 6"	TC	3.4		
R18-96 12"	TC	3.6		
R18-96 18"	TC	3.5		
R18-96 24"	TC	3.4		
R18-96 30"	TC	3.3		
R18-96 36"	TC	3.3		
R19-96 0"	TC	13.1	51	25
R19-96 0"	DS	29.6		
R19-96 6"	TC	16.8		
R19-96 12"	TC	4.4		
R19-96 18"	TC	3.8		
R19-96 24"	TC	3.0		
R19-96 30"	TC	2.3		
R19-96 36"	TC	2.7		
R20-96 0"	TC	3.4	14	16
R20-96 0"	DS	1.3		
R20-96 6"	TC	4.6		
R20-96 12"	TC	3.5		
R20-96 18"	TC	3.2		
R20-96 24"	TC	3.2		
R20-96 30"	TC	3.1		

[a]Radium-226 field measurement types: DS = Delta Scintillometer, OC = Soil Sample by Opposed Crystal System, TC = Total Count Borehole, SS = Soil Sample by Laboratory Analysis.

1996 Soil/Sediment Field Radiological Measurements

Sample Location	Ra226 Meas. Type[a]	Ra226 pCi/g	Ground Gamma μR/h	Waist Gamma μR/h
Downgradient - Middle Montezuma Creek				
R20-96 36"	TC	3.1		
R21-96 0"	TC	3.0	17	17
R21-96 0-6"	OC	3.2		
R21-96 0"	DS	2.3		
R21-96 6"	TC	3.6		
R21-96 12"	TC	3.4		
R21-96 18"	TC	3.4		
R21-96 24"	TC	3.3		
R21-96 30"	TC	3.2		
R22-96 0"	TC	7.6	111	36
R22-96 0"	DS	92.8		
R22-96 6"	TC	8.8		
R22-96 12"	TC	5.5		
R22-96 18"	TC	4.1		
R22-96 24"	TC	3.7		
R23-96 0"	TC	14.5	51	40
R23-96 0"	DS	34.9		
R23-96 6"	TC	24.4		
R23-96 12"	TC	44.7		
R23-96 18"	TC	102.2		
R23-96 24"	TC	78.5		
R23-96 30"	TC	87.3		
R23-96 36"	TC	111.7		
R23-96 42"	TC	66.0		
R23-96 48"	TC	73.9		
R24-96 0"	TC	2.5	13	15
R24-96 0"	DS	<1.0		
R24-96 6"	TC	3.4		
R24-96 12"	TC	2.7		
R24-96 18"	TC	3.8		
R24-96 24"	TC	3.4		
R24-96 30"	TC	3.1		
R24-96 36"	TC	3.2		
R25-96 0"	TC	19.2	27	23
R25-96 0"	DS	33.8		
R25-96 6"	TC	19.0		
R25-96 12"	TC	30.3		
R25-96 18"	TC	50.5		
R25-96 24"	TC	51.4		
R25-96 30"	TC	70.6		
R25-96 36"	TC	80.0		
R25-96 42"	TC	82.7		
R25-96 48"	TC	217.4		
R25-96 54"	TC	195.9		
R25-96 60"	TC	33.5		
R25-96 66"	TC	15.4		
R25-96 72"	TC	10.0		
R26-96 0"	TC	3.0	16	17
R26-96 0"	DS	1.3		
R26-96 6"	TC	4.2		
Downgradient - Middle Montezuma Creek				
R26-96 12"	TC	3.9		
R26-96 18"	TC	3.6		
R26-96 24"	TC	3.3		
R26-96 30"	TC	3.1		
R26-96 36"	TC	3.0		
R27-96 0"	TC	13.9	44	36
R27-96 0"	DS	26.2		
R27-96 6"	TC	26.5		
R27-96 12"	TC	34.8		
R27-96 18"	TC	39.8		
R27-96 24"	TC	73.5		
R27-96 30"	TC	30.4		
R27-96 36"	TC	8.7		
R27-96 42"	TC	7.3		
R28-96 0"	TC	2.6	14	15
R28-96 0"	DS	<1.0		
R28-96 6"	TC	3.0		
R28-96 12"	TC	3.4		
R28-96 18"	TC	3.4		
R28-96 24"	TC	3.5		
R28-96 30"	TC	3.5		
R29-96 0"	TC	2.3	15	15
R29-96 0"	DS	<1.0		
R29-96 6"	TC	2.9		
R29-96 12"	TC	3.0		
R29-96 18"	TC	3.4		
R29-96 24"	TC	3.3		
R29-96 30"	TC	3.2		
R29-96 36"	TC	3.1		
R30-96 0"	TC	2.4	14	15
R30-96 0"	DS	<1.0		
R30-96 6"	TC	2.8		
R30-96 12"	TC	3.4		
R30-96 18"	TC	3.5		
R30-96 24"	TC	3.8		
R30-96 30"	TC	4.4		
R30-96 36"	TC	3.6		
R30-96 42"	TC	3.5		
R31-96 0"	TC	6.3	27	25
R31-96 0"	DS	13.1		
R31-96 6"	TC	11.1		
R31-96 12"	TC	5.7		
R31-96 18"	TC	4.0		
R31-96 24"	TC	3.4		
R31-96 30"	TC	3.7		
R31-96 36"	TC	3.6		
R32-96 0"	TC	18.8	58	40
R32-96 0"	DS	30.9		
R32-96 6"	TC	56.0		
R32-96 12"	TC	46.8		

[a]Radium-226 field measurement types: DS = Delta Scintillometer, OC = Soil Sample by Opposed Crystal System, TC = Total Count Borehole, SS = Soil Sample by Laboratory Analysis.

1996 Soil/Sediment Field Radiological Measurements

Sample Location	Ra226 Meas. Type[a]	Ra226 pCi/g	Ground Gamma μR/h	Waist Gamma μR/h
Downgradient - Middle Montezuma Creek				
R32-96 18"	TC	-.4		
R32-96 24"	TC	10.6		
R33-96 0"	TC	10.6	32	23
R33-96 0"	DS	20.3		
R33-96 6"	TC	22.3		
R33-96 12"	TC	7.5		
R33-96 18"	TC	5.2		
R33-96 24"	TC	5.3		
R34-96 0"	TC	18.5	59	44
R34-96 0"	DS	50.1		
R34-96 6"	TC	32.7		
R34-96 12"	TC	14.2		
R34-96 18"	TC	10.3		
R35-96 0"	TC	15.7	66	44
R35-96 0"	DS	48.2		
R35-96 6"	TC	21.7		
R35-96 12"	TC	7.1		
R35-96 18"	TC	3.7		
R35-96 24"	TC	3.3		
R35-96 30"	TC	4.1		
R36-96 0"	TC	8.4	32	21
R36-96 0"	DS	15.7		
R36-96 6"	TC	18.6		
R36-96 12"	TC	29.4		
R36-96 18"	TC	12.7		
R36-96 24"	TC	3.9		
R36-96 30"	TC	5.2		
R37-96 0"	TC	4.8	25	21
R37-96 0"	DS	12.4		
R37-96 6"	TC	6.3		
R37-96 12"	TC	3.9		
R37-96 18"	TC	4.1		
R37-96 24"	TC	4.1		
R37-96 30"	TC	3.6		
R38-96 0"	TC	5.2	25	16
R38-96 0"	DS	8.1		
R38-96 6"	TC	5.9		
R38-96 12"	TC	3.6		
R38-96 18"	TC	3.5		
R38-96 24"	TC	3.5		
Downgradient - Lower Montezuma Creek				
R40-96 0"	TC	23.5	81	55
R40-96 0"	DS	69.6		
R40-96 6"	TC	43.4		
R40-96 12"	TC	64.1		
R40-96 18"	TC	107.2		
R40-96 24"	TC	71.0		
R40-96 30"	TC	14.4		
R41-96 0"	TC	2.4	14	14
R41-96 0"	DS	<1.0		
Downgradient - Lower Montezuma Creek				
R41-96 6"	TC	3.1		
R41-96 12"	TC	3.4		
R41-96 18"	TC	3.3		
R41-96 24"	TC	3.2		
R41-96 30"	TC	3.1		
R42-96 0"	TC	26.9	81	58
R42-96 0"	DS	69.0		
R42-96 6"	TC	27.5		
R42-96 12"	TC	10.6		
R42-96 18"	TC	13.5		
R42-96 24"	TC	15.9		
R42-96 30"	TC	9.6		
R42-96 36"	TC	7.6		
R43-96 0"	TC	24.5	77	44
R43-96 0"	DS	53.4		
R43-96 6"	TC	47.0		
R43-96 12"	TC	39.1		
R43-96 18"	TC	13.4		
R43-96 24"	TC	5.9		
R43-96 30"	TC	5.6		
R43-96 36"	TC	6.3		
R44-96 0"	TC	24.1	96	81
R44-96 0"	DS	78.5		
R44-96 6"	TC	54.9		
R44-96 12"	TC	102.5		
R44-96 18"	TC	54.8		
R44-96 24"	TC	5.3		
R44-96 30"	TC	4.4		
R44-96 36"	TC	4.0		
R45-96 0"	TC	2.5	16	16
R45-96 0"	DS	1.2		
R45-96 6"	TC	3.1		
R45-96 12"	TC	3.4		
R45-96 18"	TC	3.3		
R45-96 24"	TC	3.3		
R46-96 0"	TC	10.4	38	34
R46-96 0"	DS	22.0		
R46-96 6"	TC	19.5		
R46-96 12"	TC	14.6		
R46-96 18"	TC	5.6		
R46-96 24"	TC	4.8		
R46-96 30"	TC	3.9		
R47-96 0"	TC	2.4	15	15
R47-96 0"	DS	<1.0		
R47-96 6"	TC	3.0		
R47-96 12"	TC	3.3		
R47-96 18"	TC	3.3		
R47-96 24"	TC	3.3		
R47-96 30"	TC	3.3		
R48-96 0"	TC	2.2	17	17

[a]Radium-226 field measurement types: DS = Delta Scintillometer, OC = Soil Sample by Opposed Crystal System, TC = Total Count Borehole, SS = Soil Sample by Laboratory Analysis.

1996 Soil/Sediment Field Radiological Measurements

Sample Location	Ra226 Meas. Type[a]	Ra226 pCi/g	Ground Gamma μR/h	Waist Gamma μR/h
Downgradient - Lower Montezuma Creek				
R48-96 0"	DS	1.6		
R48-96 6"	TC	3.9		
R48-96 12"	TC	4.4		
R48-96 18"	TC	4.4		
R48-96 24"	TC	4.8		
R48-96 30"	TC	4.2		
R48-96 36"	TC	3.8		
R48-96 42"	TC	2.7		
R48-96 48"	TC	1.9		
R48-96 54"	TC	2.2		
R48-96 60"	TC	3.1		
R48-96 66"	TC	2.3		
R49-96 0"	TC	16.9	58	47
R49-96 0"	DS	37.4		
R49-96 6"	TC	32.1		
R49-96 12"	TC	42.9		
R49-96 18"	TC	66.8		
R49-96 24"	TC	15.5		
R49-96 30"	TC	4.2		
R49-96 36"	TC	6.6		
R50-96 0"	TC	5.9	32	32
R50-96 0"	DS	17.8		
R50-96 6"	TC	15.8		
R50-96 12"	TC	18.2		
R50-96 18"	TC	29.3		
R50-96 24"	TC	45.1		
R50-96 30"	TC	107.1		
R50-96 36"	TC	27.8		
R50-96 42"	TC	4.8		
R50-96 48"	TC	3.5		
R50-96 54"	TC	2.2		
R50-96 60"	TC	2.8		
R50-96 66"	TC	2.5		
R51-96 0"	TC	2.4	15	15
R51-96 0"	DS	<1.0		
R51-96 6"	TC	3.1		
R51-96 12"	TC	3.5		
R51-96 18"	TC	3.6		
R51-96 24"	TC	3.9		
R51-96 30"	TC	3.7		
R51-96 36"	TC	3.6		
R52-96 0"	TC	2.5	14	15
R52-96 0"	DS	<1.0		
R52-96 6"	TC	3.0		
R52-96 12"	TC	3.1		
R52-96 18"	TC	3.2		
R52-96 24"	TC	3.2		
R52-96 30"	TC	3.3		
R53-96 0"	TC	4.6	21	18
R53-96 0"	DS	6.7		
Downgradient - Lower Montezuma Creek				
R53-96 6"	TC	6.1		
R53-96 12"	TC	3.7		
R53-96 18"	TC	3.5		
R53-96 24"	TC	3.7		
R53-96 30"	TC	3.6		
R54-96 0"	TC	2.5	16	16
R54-96 0"	DS	1.2		
R54-96 6"	TC	3.3		
R54-96 12"	TC	2.8		
R54-96 18"	TC	3.1		
R54-96 24"	TC	2.9		
R54-96 30"	TC	2.9		
R55-96 0"	TC	6.2	32	27
R55-96 0"	DS	17.8		
R55-96 6"	TC	11.7		
R55-96 12"	TC	24.5		
R55-96 18"	TC	58.7		
R55-96 24"	TC	37.4		
R55-96 30"	TC	8.4		
R56-96 0"	TC	1.4	14	14
R56-96 0"	DS	<1.0		
R56-96 6"	TC	2.3		
R56-96 12"	TC	2.6		
R56-96 18"	TC	2.4		
R56-96 24"	TC	2.3		
R56-96 30"	TC	2.2		
R57-96 0"	TC	5.9	27	27
R57-96 0"	DS	15.8		
R57-96 6"	TC	18.6		
R57-96 12"	TC	24.6		
R57-96 18"	TC	76.8		
R57-96 24"	TC	90.4		
R57-96 30"	TC	8.3		
R57-96 36"	TC	2.1		
R57-96 42"	TC	3.0		
R58-96 0"	TC	2.6	19	18
R58-96 0-6"	OC	4.6		
R58-96 0"	DS	3.8		
R58-96 6"	TC	4.4		
R58-96 12"	TC	5.1		
R58-96 18"	TC	5.1		
R58-96 24"	TC	9.2		
R58-96 30"	TC	5.7		
R58-96 36"	TC	1.9		
R58-96 42"	TC	1.6		
R59-96 0"	TC	11.8	40	32
R59-96 0"	DS	20.8		
R59-96 6"	TC	31.8		
R59-96 12"	TC	19.0		
R59-96 18"	TC	4.7		

[a]Radium-226 field measurement types: DS = Delta Scintillometer, OC = Soil Sample by Opposed Crystal System, TC = Total Count Borehole, SS = Soil Sample by Laboratory Analysis.

1996 Soil/Sediment Field Radiological Measurements

Sample Location	Ra226 Meas. Type[a]	Ra226 pCi/g	Ground Gamma μR/h	Waist Gamma μR/h	Sample Location	Ra226 Meas. Type[a]	Ra226 pCi/g	Ground Gamma μR/h	Waist Gamma μR/h
Downgradient - Lower Montezuma Creek					Downgradient - Lower Montezuma Creek				
R59-96 24"	TC	4.3			R67-96 6"	TC	16.6		
R60-96 0"	TC	2.5	15	15	R67-96 12"	TC	31.9		
R60-96 0"	DS	<1.0			R67-96 18"	TC	15.7		
R60-96 6"	TC	3.2			R67-96 24"	TC	3.8		
R60-96 12"	TC	3.6			R67-96 30"	TC	5.1		
R60-96 18"	TC	3.7			R68-96 0"	TC	2.1	12	12
R60-96 24"	TC	3.5			R68-96 0"	DS	<1.0		
R61-96 0"	TC	1.7	14	14	R68-96 6"	TC	3.3		
R61-96 0"	DS	1.1			R68-96 12"	TC	3.3		
R61-96 6"	TC	2.7			R68-96 18"	TC	3.1		
R61-96 12"	TC	2.4			R68-96 24"	TC	3.0		
R61-96 18"	TC	2.1			R68-96 30"	TC	3.0		
R61-96 24"	TC	2.2			R68-96 36"	TC	2.9		
R61-96 30"	TC	2.2			R69-96 0"	TC	11.3	34	23
R62-96 0"	TC	17.9	55	44	R69-96 0"	DS	19.0		
R62-96 0"	DS	38.9			R69-96 6"	TC	18.7		
R62-96 6"	TC	34.2			R69-96 12"	TC	58.8		
R62-96 12"	TC	60.4			R69-96 18"	TC	93.8		
R62-96 18"	TC	83.0			R69-96 24"	TC	20.5		
R62-96 24"	TC	14.6			R69-96 30"	TC	5.2		
R63-96 0"	TC	2.1	14	14	R69-96 36"	TC	5.3		
R63-96 0"	DS	<1.0			R70-96 0"	TC	12.1	25	25
R63-96 6"	TC	2.8			R70-96 0"	DS	7.0		
R63-96 12"	TC	2.8			R70-96 6"	TC	14.6		
R63-96 18"	TC	2.6			R70-96 12"	TC	62.7		
R63-96 24"	TC	2.6			R70-96 18"	TC	55.8		
R63-96 30"	TC	2.8			R70-96 24"	TC	9.0		
R63-96 36"	TC	2.6			R70-96 30"	TC	5.8		
R64-96 0"	TC	9.5	40	32	R71-96 0"	TC	7.5	29	29
R64-96 0"	DS	26.0			R71-96 0"	DS	12.5		
R64-96 6"	TC	29.0			R71-96 6"	TC	14.6		
R64-96 12"	TC	7.9			R71-96 12"	TC	31.8		
R64-96 18"	TC	2.6			R71-96 18"	TC	12.3		
R64-96 24"	TC	2.7			R71-96 24"	TC	.5		
R64-96 30"	TC	2.6			R71-96 30"	TC	3.4		
R65-96 0"	TC	6.7	29	21	R72-96 0"	TC	3.5	16	17
R65-96 0"	DS	14.4			R72-96 0-6"	OC	3.5		
R65-96 6"	TC	11.0			R72-96 0"	DS	2.2		
R65-96 12"	TC	52.1			R72-96 6"	TC	4.0		
R65-96 18"	TC	29.1			R72-96 12"	TC	5.0		
R65-96 24"	TC	7.3			R72-96 18"	TC	5.3		
R65-96 30"	TC	6.7			R72-96 24"	TC	5.0		
R66-96 0"	TC	1.9	14	15	R72-96 30"	TC	5.5		
R66-96 0"	DS	<1.0			R72-96 36"	TC	4.3		
R66-96 6"	TC	2.5			R73-96 0"	TC	2.3	14	14
R66-96 12"	TC	2.6			R73-96 0"	DS	1.2		
R66-96 18"	TC	2.1			R73-96 6"	TC	3.1		
R66-96 24"	TC	2.2			R73-96 12"	TC	3.6		
R67-96 0"	TC	7.5	32	23	R73-96 18"	TC	3.8		
R67-96 0"	DS	15.8			R73-96 24"	TC	3.6		

[a]Radium-226 field measurement types: DS = Delta Scintillometer, OC = Soil Sample by Opposed Crystal System, TC = Total Count Borehole, SS = Soil Sample by Laboratory Analysis.

1996 Soil/Sediment Field Radiological Measurements

Sample Location	Ra226 Meas. Type[a]	Ra226 pCi/g	Ground Gamma μR/h	Waist Gamma μR/h
Downgradient - Lower Montezuma Creek				
R73-96 30"	TC	3.6		
R74-96 0"	TC	19.6	96	58
R74-96 0"	DS	70.5		
R74-96 6"	TC	38.1		
R74-96 12"	TC	2.6		
R74-96 18"	TC	3.4		
R74-96 24"	TC	2.9		
R74-96 30"	TC	2.7		
R75-96 0"	TC	3.0	16	15
R75-96 0-6"	OC	3.4		
R75-96 0"	DS	2.6		
R75-96 6"	TC	4.9		
R75-96 12"	TC	7.6		
R75-96 18"	TC	5.9		
R75-96 24"	TC	2.7		
R75-96 30"	TC	2.7		
R76-96 0"	TC	6.6	21	18
R76-96 0"	DS	11.2		
R76-96 6"	TC	17.9		
R76-96 12"	TC	28.3		
R76-96 18"	TC	4.5		
R76-96 24"	TC	3.3		
R76-96 30"	TC	3.4		
R77-96 0"	TC	2.3	14	14
R77-96 0"	DS	1.9		
R77-96 6"	TC	4.0		
R77-96 12"	TC	4.8		
R77-96 18"	TC	4.4		
R77-96 24"	TC	5.0		
R77-96 30"	TC	4.4		
R78-96 0"	TC	2.5	14	14
R78-96 0"	DS	<1.0		
R78-96 6"	TC	3.9		
R78-96 12"	TC	3.9		
R78-96 18"	TC	6.5		
R78-96 24"	TC	8.2		
R78-96 30"	TC	6.8		
R78-96 36"	TC	6.2		
R79-96 0"	TC	13.9	55	44
R79-96 0"	DS	43.4		
R79-96 6"	TC	46.2		
R79-96 12"	TC	26.3		
R79-96 18"	TC	2.1		
R79-96 24"	TC	2.7		
R79-96 30"	TC	2.4		
R80-96 0"	TC	2.1	15	15
R80-96 0-6"	OC	2.2		
R80-96 0"	DS	2.0		
R80-96 6"	TC	3.8		
R80-96 12"	TC	4.6		
Downgradient - Lower Montezuma Creek				
R80-96 18"	TC	4.2		
R80-96 24"	TC	4.6		
R80-96 30"	TC	3.7		
R81-96 0"	TC	7.2	32	25
R81-96 0"	DS	12.0		
R81-96 6"	TC	13.3		
R81-96 12"	TC	4.7		
R81-96 18"	TC	2.9		
R81-96 24"	TC	3.0		
R82-96 0"	TC	11.0	40	27
R82-96 0"	DS	22.7		
R82-96 6"	TC	25.6		
R82-96 12"	TC	54.6		
R82-96 18"	TC	14.5		
R82-96 24"	TC	4.2		
R82-96 30"	TC	3.7		
R83-96 0"	TC	2.3	14	14
R83-96 0"	DS	1.0		
R83-96 6"	TC	3.1		
R83-96 12"	TC	3.2		
R83-96 18"	TC	3.1		
R83-96 24"	TC	3.1		
R83-96 30"	TC	3.1		
R83-96 36"	TC	3.1		
R84-96 0"	TC	8.0	58	40
R84-96 0"	DS	30.9		
R84-96 6"	TC	9.4		
R84-96 12"	TC	4.1		
R84-96 18"	TC	3.2		
R84-96 24"	TC	3.6		
R84-96 30"	TC	3.5		
R85-96 0"	TC	2.0	14	14
R85-96 0"	DS	<1.0		
R85-96 6"	TC	2.2		
R85-96 12"	TC	1.9		
R85-96 18"	TC	2.2		
R85-96 24"	TC	1.9		
R85-96 30"	TC	1.8		
R86-96 0"	TC	7.1	29	25
R86-96 0"	DS	12.7		
R86-96 6"	TC	10.1		
R86-96 12"	TC	3.7		
R86-96 18"	TC	2.7		
R86-96 24"	TC	3.0		
R87-96 0"	TC	1.9	15	14
R87-96 0"	DS	1.7		
R87-96 6"	TC	3.6		
R87-96 12"	TC	3.7		
R87-96 18"	TC	16.3		
R87-96 24"	TC	26.8		

[a]Radium-226 field measurement types: DS = Delta Scintillometer, OC = Soil Sample by Opposed Crystal System, TC = Total Count Borehole, SS = Soil Sample by Laboratory Analysis.

1996 Soil/Sediment Field Radiological Measurements

Sample Location	Ra226 Meas. Type[a]	Ra226 pCi/g	Ground Gamma µR/h	Waist Gamma µR/h	Sample Location	Ra226 Meas. Type[a]	Ra226 pCi/g	Ground Gamma µR/h	Waist Gamma µR/h
Downgradient - Lower Montezuma Creek									
R87-96 30"	TC	19.4							
R87-96 36"	TC	12.2							
R87-96 42"	TC	10.8							
R87-96 48"	TC	9.6							
R88-96 0"	TC	1.9	14	14					
R88-96 0"	DS	1.3							
R88-96 6"	TC	3.5							
R88-96 12"	TC	4.8							
R88-96 18"	TC	5.9							
R88-96 24"	TC	6.5							
R88-96 30"	TC	4.1							
R88-96 36"	TC	3.5							
R89-96 0"	TC	1.9	14	14					
R89-96 0"	DS	<1.0							
R89-96 6"	TC	2.8							
R89-96 12"	TC	4.4							
R89-96 18"	TC	4.8							
R89-96 24"	TC	3.7							
R89-96 30"	TC	4.9							
R89-96 36"	TC	6.2							
R90-96 0"	TC	2.0	14	14					
R90-96 0"	DS	1.2							
R90-96 6"	TC	3.2							
R90-96 12"	TC	4.0							
R90-96 18"	TC	3.3							
R90-96 24"	TC	2.9							
R90-96 30"	TC	2.4							
R91-96 0"	TC	2.3							
R91-96 0"	DS	<1.0							
R91-96 6"	TC	2.8							
R91-96 12"	TC	3.0							
R91-96 18"	TC	2.9							
R91-96 24"	TC	2.9							
R91-96 30"	TC	2.9							
Downgradient - Off-Site									
18SD96-03 0"	TC	1.2	12	12					
18SD96-03 6"	TC	2.0							
18SD96-03 12"	TC	2.3							
18SD96-03 18"	TC	2.2							
18SD96-03 24"	TC	2.0							
18SD96-03 30"	TC	2.3							
18SD96-05 0"	TC	1.1	11	11					
18SD96-05 6"	TC	2.4							
18SD96-05 12"	TC	2.6							
18SD96-05 18"	TC	2.5							
18SD96-05 24"	TC	3.2							
18SD96-05 30"	TC	2.6							
18SD96-05 36"	TC	2.3							
18SD96-05 42"	TC	2.0							

[a]Radium-226 field measurement types: DS = Delta Scintillometer, OC = Soil Sample by Opposed Crystal System, TC = Total Count Borehole, SS = Soil Sample by Laboratory Analysis.

Appendix C–8

Statistical Data

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Surface Water Statistics[a]

Analyte	Position	Maximum	Average	Stand	MinDetLimit	MaxDetLimit	MinDetected	MaxDetected	UCL	N	DetFreq
Al	Reference - West of 191	724	181	155	29	29	31.4	724	232	27	96.3
Al	Reference - Vega	3510	1780	1730			41.3	3510	9520	2	100
Al	Reference - Verdure	186	76.6	71.8	31.2	31.2	136	186	129	7	42.9
Al	Reference - Verdure + Vega	3510	454	1080	31.2	31.2	41.3	3510	1130	9	55.6
Al	On-Site	1930	458	423			31.9	1930	572	39	100
Al	Cross-Gradient - Off-Site	1450	687	510			158	1450	1110	6	100
Al	Down-Gradient - Upper Canyon	1270	202	206	22.2	31.2	21.4	1270	252	48	91.7
Al	Down-Gradient - Middle Canyon	15.6	15.6	0	31.2	31.2			15.6	2	0
Al	Down-Gradient - Lower Canyon	8930	687	1670	14	29	13.3	8930	1240	27	92.6
Al	Down-Gradient - Up + Mid + Low Canyon	8930	367	1030	14	31.2	13.3	8930	564	77	89.6
Al	Down-Gradient - Off-Site	3550	941	1400	31.2	31.2	58.5	3550	1670	12	75
Alpha	Reference - West of 191	30	12.4	7.38	9.4	60			14.9	27	0
Alpha	Reference - Vega	16.5	15.5	1	29	33			20	2	0
Alpha	Reference - Verdure	78.1	17	25.2	6	21	78.1	78.1	35.5	7	14.3
Alpha	Reference - Verdure + Vega	78.1	16.7	22.2	6	33	78.1	78.1	30.4	9	11.1
Alpha	On-Site	2480	365	699	17.4	70	17.3	2480	554	39	61.5
Alpha	Cross-Gradient - Off-Site	34.5	22.5	8.76	23	69			29.7	6	0
Alpha	Down-Gradient - Upper Canyon	350	126	76.2	35	53	35.5	350	145	48	91.7
Alpha	Down-Gradient - Middle Canyon	156	150	6			144	156	177	2	100
Alpha	Down-Gradient - Lower Canyon	264	95.2	66.3	20	40	27.7	264	117	27	74.1
Alpha	Down-Gradient - Up + Mid + Low Canyon	350	116	73.6	20	53	27.7	350	130	77	85.7
Alpha	Down-Gradient - Off-Site	119	50.7	38.6	7.2	40	55	119	70.7	12	58.3
As	Reference - West of 191	3.9	1.46	.816	1	4	2.3	3.9	1.73	27	14.8
As	Reference - Vega	5.7	3.45	2.25			1.2	5.7	13.5	2	100
As	Reference - Verdure	1.8	1.07	.528	1.1	1.1	.86	1.8	1.46	7	57.1
As	Reference - Verdure + Vega	5.7	1.6	1.52	1.1	1.1	.86	5.7	2.55	9	66.7
As	On-Site	1250	110	256	.44	3	2.6	1250	179	39	56.4
As	Cross-Gradient - Off-Site	11	6.13	3.99	1	1	2.4	11	9.41	6	83.3
As	Down-Gradient - Upper Canyon	15.1	2.83	2.87	.44	4	1.2	15.1	3.53	48	58.3
As	Down-Gradient - Middle Canyon	2.7	2.65	.05			2.6	2.7	2.87	2	100
As	Down-Gradient - Lower Canyon	4.6	2.33	1.45	.44	4	1.7	4.6	2.81	27	48.1
As	Down-Gradient - Up + Mid + Low Canyon	15.1	2.65	2.43	.44	4	1.2	15.1	3.11	77	55.8
As	Down-Gradient - Off-Site	5.9	2.98	1.59	1	4	3.3	5.9	3.8	12	58.3
Beta	Reference - West of 191	21	9.5	5.06	6.8	42			11.2	27	0
Beta	Reference - Vega	12.3	11.4	.9	21	24.6			15.4	2	0
Beta	Reference - Verdure	16	7.31	3.9	4.6	14.4	5.2	16	10.2	7	42.9
Beta	Reference - Verdure + Vega	16	8.22	3.86	4.6	24.6	5.2	16	10.6	9	33.3
Beta	On-Site	1290	172	365	10.2	48.6	25.2	1290	271	39	35.9
Beta	Cross-Gradient - Off-Site	32	18	10.9	13.6	64			27	6	0
Beta	Down-Gradient - Upper Canyon	130	39.7	27.6	14.8	50.2	12	130	46.4	48	70.8
Beta	Down-Gradient - Middle Canyon	32.9	31.6	1.3			30.3	32.9	37.4	2	100
Beta	Down-Gradient - Lower Canyon	100	37.1	26.9	13	49.2	12.4	100	45.9	27	66.7
Beta	Down-Gradient - Up + Mid + Low Canyon	130	38.6	27	13	50.2	12	130	43.7	77	70.1
Beta	Down-Gradient - Off-Site	44.3	19.8	12	8.6	35	21.2	44.3	26	12	41.7
Co	Reference - West of 191	6.6	4	1.02	6	10	6.6	6.6	4.53	12	8.33
Co	Reference - Vega	2.8	2.5	.3	4.4	5.6			3.84	2	0
Co	Reference - Verdure	3.3	2.83	.544	4.4	6.6			3.23	7	0
Co	Reference - Verdure + Vega	3.3	2.76	.519	4.4	6.6			3.08	9	0
Co	On-Site	5	3.88	.806	6	10			4.22	17	0
Co	Cross-Gradient - Off-Site	4	4	0	8	8				1	0
Co	Down-Gradient - Upper Canyon	5	3.45	.845	4.4	10			3.73	28	0

Upper Canyon = Upper Montezuma Creek; Lower Canyon = Lower Montezuma Creek; Middle Canyon = Middle Montezuma Creek

[a]Metals are reported in µg/L and radiological data are reported in pCi/L.

Surface Water Statistics[a]

Analyte	Position	Maximum	Average	Stand	MinDetLimit	MaxDetLimit	MinDetected	MaxDetected	UCL	N	DetFreq
Co	Down-Gradient - Middle Canyon	3.3	3.3	0	6.6	6.6			3.3	2	0
Co	Down-Gradient - Lower Canyon	5	3.31	.854	4.4	10			3.67	17	0
Co	Down-Gradient - Up + Mid + Low Canyon	5	3.39	.833	4.4	10			3.6	47	0
Co	Down-Gradient - Off-Site	5	3.61	.634	6	10			4.07	7	0
Cu	Reference - West of 191	3	1.79	.491	2	5	3	3	1.96	27	3.7
Cu	Reference - Vega	2.8	2.5	.3	4.4	5.6			3.84	2	0
Cu	Reference - Verdure	2.8	2.26	.47	3.7	5.6			2.6	7	0
Cu	Reference - Verdure + Vega	2.8	2.31	.45	3.7	5.6			2.59	9	0
Cu	On-Site	66.2	7.41	15.8	2	5	3.1	66.2	11.7	39	23.1
Cu	Cross-Gradient - Off-Site	16.3	6.1	6.87	2	4	15.3	16.3	11.8	6	33.3
Cu	Down-Gradient - Upper Canyon	20	2.72	2.98	2	5.6	3.3	20	3.44	48	12.5
Cu	Down-Gradient - Middle Canyon	1.85	1.85	0	3.7	3.7			1.85	2	0
Cu	Down-Gradient - Lower Canyon	51.5	3.8	9.37	2	5.6	51.5	51.5	6.88	27	3.7
Cu	Down-Gradient - Up + Mid + Low Canyon	51.5	3.07	6.05	2	5.6	3.3	51.5	4.23	77	9.09
Cu	Down-Gradient - Off-Site	4.6	2.4	.924	3	5	3.3	4.6	2.88	12	25
Mn	Reference - West of 191	191	52.3	47.9			6.7	191	68	27	100
Mn	Reference - Vega	2430	1330	1100			221	2430	6260	2	100
Mn	Reference - Verdure	406	124	129			14.5	406	218	7	100
Mn	Reference - Verdure + Vega	2430	391	730			14.5	2430	844	9	100
Mn	On-Site	785	183	210			23.7	785	240	39	100
Mn	Cross-Gradient - Off-Site	1000	341	346			34.7	1000	625	6	100
Mn	Down-Gradient - Upper Canyon	616	218	122			27.6	616	247	48	100
Mn	Down-Gradient - Middle Canyon	192	185	7			178	192	216	2	100
Mn	Down-Gradient - Lower Canyon	398	197	107			27.7	398	232	27	100
Mn	Down-Gradient - Up + Mid + Low Canyon	616	209	116			27.6	616	232	77	100
Mn	Down-Gradient - Off-Site	374	192	96.9			54.1	374	243	12	100
Mo	Reference - West of 191	20.2	6.19	5.65	1	27	1.3	20.2	8.04	27	59.3
Mo	Reference - Vega	14.45	7.5	6.95	1.1	28.9			38.5	2	0
Mo	Reference - Verdure	14.45	8.76	4.93	28.9	28.9	4.3	4.9	12.4	7	57.1
Mo	Reference - Verdure + Vega	14.45	8.48	5.47	1.1	28.9	4.3	4.9	11.9	9	44.4
Mo	On-Site	2450	138	443	.56	27	1.2	2450	258	39	66.7
Mo	Cross-Gradient - Off-Site	13.5	7.75	5.88	1	27	1.1	4.4	12.6	6	33.3
Mo	Down-Gradient - Upper Canyon	90.9	21	16.3	15.6	28.9	7.5	90.9	24.9	48	64.6
Mo	Down-Gradient - Middle Canyon	16.3	16.1	.25			15.8	16.3	17.2	2	100
Mo	Down-Gradient - Lower Canyon	36.8	17.4	8.68	15.6	28.9	10.2	36.8	20.2	27	59.3
Mo	Down-Gradient - Up + Mid + Low Canyon	90.9	19.6	13.9	15.6	28.9	7.5	90.9	22.2	77	63.6
Mo	Down-Gradient - Off-Site	18.2	11.4	4.58	15.6	27	1.4	18.2	13.7	12	75
NO3	Reference - West of 191	1200	446	384			50.6	1200	656	11	100
NO3	On-Site	25100	6650	7250			34.7	25100	9450	20	100
NO3	Down-Gradient - Upper Canyon	6190	2770	1400			82.8	6190	3390	16	100
NO3	Down-Gradient - Lower Canyon	3900	1960	1280			49.2	3900	2810	8	100
NO3	Down-Gradient - Up + Mid + Low Canyon	6190	2500	1410			49.2	6190	3000	24	100
NO3	Down-Gradient - Off-Site	360	168	121			49.5	360	310	4	100
NO3+NO2-N	Reference - West of 191	1580	242	424			15.1	1580	428	16	100
NO3+NO2-N	Reference - Vega	15.5	10.3	5.25	10	10	15.5	15.5	33.7	2	50
NO3+NO2-N	Reference - Verdure	35.8	17.1	13.4	10	10	10.6	35.8	39.7	3	66.7
NO3+NO2-N	Reference - Verdure + Vega	35.8	14.4	11.4	10	10	10.6	35.8	25.3	5	60
NO3+NO2-N	On-Site	7290	1240	1940			11.5	7290	2010	19	100
NO3+NO2-N	Cross-Gradient - Off-Site	2430	674	889			14.3	2430	1410	6	100
NO3+NO2-N	Down-Gradient - Upper Canyon	1880	526	412			41	1880	656	29	100

Upper Canyon = Upper Montezuma Creek; Lower Canyon = Lower Montezuma Creek; Middle Canyon = Middle Montezuma Creek
[a]Metals are reported in µg/L and radiological data are reported in pCi/L.

Surface Water Statistics[a]

Analyte	Position	Maximum	Average	Stand	MinDetLimit	MaxDetLimit	MinDetected	MaxDetected	UCL	N	DetFreq
NO3+NO2-N	Down-Gradient - Lower Canyon	1350	622	488			7	1350	816	19	100
NO3+NO2-N	Down-Gradient - Up • Mid • Low Canyon	1880	564	446			7	1880	672	48	100
NO3+NO2-N	Down-Gradient - Off-Site	1200	262	469			15.2	1200	710	5	100
Pb	Reference - West of 191	24.5	2.09	4.9	1	1	1.1	24.5	3.8	24	25
Pb	Reference - Vega	.55	.55	0	1.1	1.1				1	0
Pb	Reference - Verdure	1.3	.8	.293			.55	1.3	1.15	4	100
Pb	Reference - Verdure + Vega	1.3	.75	.281	1.1	1.1	.55	1.3	1.02	5	80
Pb	On-Site	5.9	1.36	1.46	.44	1	1.1	5.9	1.77	36	38.9
Pb	Cross-Gradient - Off-Site	2.2	1	.716	1	1	1.8	2.2	1.59	6	33.3
Pb	Down-Gradient - Upper Canyon	2.3	.627	.427	.44	1	.67	2.3	.743	39	15.4
Pb	Down-Gradient - Middle Canyon	.82	.785	.035			.75	.82	.941	2	100
Pb	Down-Gradient - Lower Canyon	4	1.02	1.07	.44	1.1	1.2	4	1.45	19	26.3
Pb	Down-Gradient - Up + Mid • Low Canyon	4	.759	.718	.44	1.1	.67	4	.914	60	21.7
Pb	Down-Gradient - Off-Site	6.5	1.39	1.79	1	1	.41	6.5	2.37	11	54.5
Pb210	Reference - West of 191	1	.984	.0784	1.2	2			1.01	25	0
Pb210	Reference - Vega	1.3	1.15	.15	2	2	1.3	1.3	1.82	2	50
Pb210	Reference - Verdure	1	.786	.19	1.1	2			.925	7	0
Pb210	Reference - Verdure • Vega	1.3	.867	.237	1.1	2	1.3	1.3	1.01	9	11.1
Pb210	On-Site	33.8	3.97	7.2	1.26	2	4.6	33.8	6.06	34	20.6
Pb210	Cross-Gradient - Off-Site	10.9	2.65	3.69	2	2	10.9	10.9	5.69	6	16.7
Pb210	Down-Gradient - Upper Canyon	6.6	1.26	1.05	1.14	2.2	2	6.6	1.53	44	11.4
Pb210	Down-Gradient - Middle Canyon	.6	.6	0	1.2	1.2			.6	2	0
Pb210	Down-Gradient - Lower Canyon	2.7	1.15	.512	1.22	2	1.4	2.7	1.33	25	16
Pb210	Down-Gradient - Up + Mid + Low Canyon	6.6	1.2	.889	1.14	2.2	1.4	6.6	1.38	71	12.7
Pb210	Down-Gradient - Off-Site	2	.986	.362	1.2	2	2	2	1.18	11	9.09
Ra226	Reference - West of 191	.8	.198	.153	.07	.58	.1	.8	.248	27	25.9
Ra226	Reference - Vega	.25	.148	.103	.09	.5			.605	2	0
Ra226	Reference - Verdure	.25	.127	.107	.05	.5			.206	7	0
Ra226	Reference - Verdure • Vega	.25	.132	.106	.05	.5			.197	9	0
Ra226	On-Site	30	3.05	6.28	.15	.5	.22	30	4.75	39	74.4
Ra226	Cross-Gradient - Off-Site	3.1	1.24	1.11	.46	.5	.51	3.1	2.15	6	66.7
Ra226	Down-Gradient - Upper Canyon	1.3	.616	.305	.11	.5	.33	1.3	.69	48	79.2
Ra226	Down-Gradient - Middle Canyon	1.1	.895	.205			.69	1.1	1.81	2	100
Ra226	Down-Gradient - Lower Canyon	1.3	.709	.29	.5	1.2	.2	1.3	.804	27	88.9
Ra226	Down-Gradient - Up + Mid + Low Canyon	1.3	.656	.303	.11	1.2	.2	1.3	.714	77	83.1
Ra226	Down-Gradient - Off-Site	.58	.243	.149	.04	.5	.2	.58	.32	12	50
Rn222	Reference - West of 191	170	46.8	40.6	30	129	37	170	60.2	27	25.9
Rn222	Reference - Vega	301	187	114			73	301	696	2	100
Rn222	Reference - Verdure	545	98	183	38	40	44	545	232	7	28.6
Rn222	Reference - Verdure + Vega	545	118	174	38	40	44	545	226	9	44.4
Rn222	On-Site	43700	2500	7530	71	72	63	43700	4540	39	94.9
Rn222	Cross-Gradient - Off-Site	713	256	252	46	87	337	713	463	6	50
Rn222	Down-Gradient - Upper Canyon	1700	164	249	30	68	33	1700	225	48	85.4
Rn222	Down-Gradient - Middle Canyon	63	60	3			57	63	73.4	2	100
Rn222	Down-Gradient - Lower Canyon	210	83.3	61.6	26	67	37	210	104	27	59.3
Rn222	Down-Gradient - Up + Mid • Low Canyon	1700	133	204	26	68	33	1700	172	77	76.6
Rn222	Down-Gradient - Off-Site	103	48.1	30	45	90	3	103	63.7	12	50
SO4	Reference - West of 191	1000	408	331			57.8	1000	517	27	100
SO4	Reference - Vega	810	482	328			154	810	1950	2	100
SO4	Reference - Verdure	230	170	47.8			127	230	205	7	100

Upper Canyon = Upper Montezuma Creek; Lower Canyon = Lower Montezuma Creek; Middle Canyon = Middle Montezuma Creek

[a]Metals are reported in µg/L and radiological data are reported in pCi/L.

Surface Water Statistics[a]

Analyte	Position	Maximum	Average	Stand	MinDetLimit	MaxDetLimit	MinDetected	MaxDetected	UCL	N	DetFreq
SO4	Reference - Verdure + Vega	810	239	206			127	810	367	9	100
SO4	On-Site	1380	616	284			196	1380	693	39	100
SO4	Cross-Gradient - Off-Site	132	75.1	38.3			25.6	132	107	6	100
SO4	Down-Gradient - Upper Canyon	906	625	212			245	906	677	48	100
SO4	Down-Gradient - Middle Canyon	728	727	1			726	728	731	2	100
SO4	Down-Gradient - Lower Canyon	809	481	184			240	809	541	27	100
SO4	Down-Gradient - Up + Mid + Low Canyon	906	577	212			240	906	618	77	100
SO4	Down-Gradient - Off-Site	749	472	214			46.4	749	583	12	100
Se	Reference - West of 191	9.7	1.69	1.78	1	3	1	9.7	2.27	27	33.3
Se	Reference - Vega	1.1	1.1	0	2.2	2.2			1.1	2	0
Se	Reference - Verdure	1.1	.957	.124	1.7	2.2			1.05	7	0
Se	Reference - Verdure + Vega	1.1	.989	.124	1.7	2.2			1.07	9	0
Se	On-Site	540	34.4	113	1	15	1.1	540	65	39	74.4
Se	Cross-Gradient - Off-Site	1.3	.8	.316	1	2	1.3	1.3	1.06	6	16.7
Se	Down-Gradient - Upper Canyon	19.6	3.57	3.93	1	3.3	1.8	19.6	4.52	48	64.6
Se	Down-Gradient - Middle Canyon	2	1.43	.575	1.7	1.7	2	2	3.99	2	50
Se	Down-Gradient - Lower Canyon	4.1	1.76	.911	1.1	3	1.2	4.1	2.06	27	51.9
Se	Down-Gradient - Up + Mid + Low Canyon	19.6	2.88	3.28	1	3.3	1.2	19.6	3.5	77	59.7
Se	Down-Gradient - Off-Site	2.5	1.35	.701	1	3	1.7	2.5	1.72	12	33.3
Th230	Reference - West of 191	1.2	.2	.236	.06	.76	.15	1.2	.278	27	18.5
Th230	Reference - Vega	.75	.575	.175	.8	1.5			1.36	2	0
Th230	Reference - Verdure	.75	.357	.344	.04	1.5	.18	.18	.61	7	14.3
Th230	Reference - Verdure + Vega	.75	.406	.327	.04	1.5	.18	.18	.608	9	11.1
Th230	On-Site	4.5	.416	.793	.05	9	.31	.81	.63	39	12.8
Th230	Cross-Gradient - Off-Site	.15	.102	.0492	.07	.3			.142	6	0
Th230	Down-Gradient - Upper Canyon	.75	.259	.22	.04	1.5	.11	.58	.312	48	8.33
Th230	Down-Gradient - Middle Canyon	.03	.025	.005	.04	.06			.0473	2	0
Th230	Down-Gradient - Lower Canyon	.75	.295	.216	.15	1.5	.05	.3	.366	27	11.1
Th230	Down-Gradient - Up + Mid + Low Canyon	.75	.265	.22	.04	1.5	.05	.58	.307	77	9.09
Th230	Down-Gradient - Off-Site	.77	.162	.207	.04	.76	.13	.77	.269	12	16.7
U	Reference - West of 191	5.6	2.43	1.51	1	1	1	5.6	2.96	24	75
U	Reference - Verdure	1.1	1.06	.0217	2.1	2.2			1.09	4	0
U	Reference - Verdure + Vega	1.1	1.06	.0217	2.1	2.2			1.09	4	0
U	On-Site	3230	602	1010			8.3	3230	886	36	100
U	Cross-Gradient - Off-Site	37.7	22.3	14.2			3	37.7	34	6	100
U	Down-Gradient - Upper Canyon	508	181	112			47.7	508	212	39	100
U	Down-Gradient - Middle Canyon	140	138	2.5			135	140	149	2	100
U	Down-Gradient - Lower Canyon	309	165	69.6			73.7	309	194	18	100
U	Down-Gradient - Up + Mid + Low Canyon	508	175	99.6			47.7	508	197	59	100
U	Down-Gradient - Off-Site	116	70.3	36	1	1	20.8	116	90	11	90.9
U234	Reference - West of 191	4.8	2.31	1.12	.82	3.6	.77	4.8	2.68	27	88.9
U234	Reference - Vega	2.9	2.45	.45			2	2.9	4.46	2	100
U234	Reference - Verdure	1.5	1.18	.234			.85	1.5	1.35	7	100
U234	Reference - Verdure + Vega	2.9	1.46	.604			.85	2.9	1.84	9	100
U234	On-Site	1060	168	303			5.4	1060	251	38	100
U234	Cross-Gradient - Off-Site	24.1	10.9	7.45			2	24.1	17	6	100
U234	Down-Gradient - Upper Canyon	177	59	36.7			13.8	177	68	47	100
U234	Down-Gradient - Middle Canyon	46.4	45	1.45			43.5	46.4	51.4	2	100
U234	Down-Gradient - Lower Canyon	118	46.3	30.1	.6	.6	14.4	118	56.4	26	96.2
U234	Down-Gradient - Up + Mid + Low Canyon	177	54.2	34.6	.6	.6	13.8	177	60.9	75	98.7
U234	Down-Gradient - Off-Site	40.7	24.9	12.1			2.4	40.7	31.2	12	100

Upper Canyon = Upper Montezuma Creek; Lower Canyon = Lower Montezuma Creek; Middle Canyon = Middle Montezuma Creek

[a]Metals are reported in µg/L and radiological data are reported in pCi/L.

Surface Water Statistics[a]

Analyte	Position	Maximum	Average	Stand	MinDetLimit	MaxDetLimit	MinDetected	MaxDetected	UCL	N	DetFreq
U235	Reference - West of 191	.5	.15	.145	.05	1	.07	.09	.203	22	9.09
U235	Reference - Vega	.55	.525	.025	1	1.1			.637	2	0
U235	Reference - Verdure	.5	.231	.233	.04	1			.402	7	0
U235	Reference - Verdure + Vega	.55	.297	.239	.04	1.1			.445	9	0
U235	On-Site	42.9	8.05	13.6	.16	2.2	.58	42.9	12.4	28	64.3
U235	Cross-Gradient - Off-Site	1.6	.437	.546	.12	.3	.56	1.6	.886	6	33.3
U235	Down-Gradient - Upper Canyon	4.9	1.87	1.13	.38	3.6	.96	4.9	2.18	39	66.7
U235	Down-Gradient - Middle Canyon	2.2	2.1	.1			2	2.2	2.55	2	100
U235	Down-Gradient - Lower Canyon	3.2	1.24	.959	.04	1.22	1.8	3.2	1.59	22	40.9
U235	Down-Gradient - Up + Mid + Low Canyon	4.9	1.66	1.1	.04	3.6	.96	4.9	1.89	63	58.7
U235	Down-Gradient - Off-Site	1.9	1.13	.553	.13	1	.71	1.9	1.45	10	80
U238	Reference - West of 191	2.1	1.12	.583	.28	1	.36	2.1	1.31	27	85.2
U238	Reference - Vega	1.5	1	.5	1	1	1.5	1.5	3.23	2	50
U238	Reference - Verdure	.82	.579	.113	1	1	.49	.82	.661	7	57.1
U238	Reference - Verdure + Vega	1.5	.672	.31	1	1	.49	1.5	.864	9	55.6
U238	On-Site	1060	167	307			3.6	1060	252	38	100
U238	Cross-Gradient - Off-Site	23.3	9.65	7.41			1.2	23.3	15.7	6	100
U238	Down-Gradient - Upper Canyon	174	58.6	37.8			14.2	174	67.9	47	100
U238	Down-Gradient - Middle Canyon	44.9	44.3	.65			43.6	44.9	47.2	2	100
U238	Down-Gradient - Lower Canyon	120	46.2	29.6	1	1	16.3	120	56.1	26	96.2
U238	Down-Gradient - Up + Mid + Low Canyon	174	53.9	35.1	1	1	14.2	174	60.7	75	98.7
U238	Down-Gradient - Off-Site	40	24.5	12.4			1.9	40	30.9	12	100
V	Reference - West of 191	5.4	2.9	.852	4	8	5.4	5.4	3.18	27	3.7
V	Reference - Vega	2.8	2.5	.3	4.4	5.6			3.84	2	0
V	Reference - Verdure	3.85	3.14	.817	4.4	7.7			3.74	7	0
V	Reference - Verdure + Vega	3.85	3	.781	4.4	7.7			3.48	9	0
V	On-Site	52000	3180	9660	4	6.7	5.9	52000	5790	39	79.5
V	Cross-Gradient - Off-Site	29.8	12.2	9.75	5	6	7.5	29.8	20.2	6	66.7
V	Down-Gradient - Upper Canyon	414	64	83	4.4	7.7	7.4	414	84.2	48	85.4
V	Down-Gradient - Middle Canyon	3.85	3.85	0	7.7	7.7			3.85	2	0
V	Down-Gradient - Lower Canyon	44	16.9	11.8	4.4	6.7	4.3	44	20.8	27	92.6
V	Down-Gradient - Up + Mid + Low Canyon	414	45.9	69.9	4.4	7.7	4.3	414	59.2	77	85.7
V	Down-Gradient - Off-Site	14.3	5.07	4.11	4	7.7	6.6	14.3	7.2	12	25
Zn	Reference - West of 191	92.3	12.7	17.4	3	6	3.8	92.3	18.5	27	74.1
Zn	Reference - Vega	16	14.6	1.45			13.1	16	21	2	100
Zn	Reference - Verdure	21.1	7.93	6.76			2	21.1	12.9	7	100
Zn	Reference - Verdure + Vega	21.1	9.4	6.61			2	21.1	13.5	9	100
Zn	On-Site	66.1	10.6	12.1	2	7	3	66.1	13.8	39	66.7
Zn	Cross-Gradient - Off-Site	24.9	9.55	10.7	2	2	5.3	24.9	18.3	6	50
Zn	Down-Gradient - Upper Canyon	57.8	11.7	10.5	1.9	6	2.4	57.8	14.3	48	75
Zn	Down-Gradient - Middle Canyon	4.7	4.65	.05			4.6	4.7	4.87	2	100
Zn	Down-Gradient - Lower Canyon	58.9	9.6	12.1	2	7	3.1	58.9	13.6	27	81.5
Zn	Down-Gradient - Up + Mid + Low Canyon	58.9	10.8	11.1	1.9	7	2.4	58.9	12.9	77	77.9
Zn	Down-Gradient - Off-Site	86.7	15.7	23.4	1.9	7	4.5	86.7	27.9	12	66.7

Upper Canyon = Upper Montezuma Creek; Lower Canyon = Lower Montezuma Creek; Middle Canyon = Middle Montezuma Creek

[a]Metals are reported in µg/L and radiological data are reported in pCi/L.

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Filtered Surface Water Statistics[a]

Analyte	Position	Maximum	Average	Stand	MinDetLimit	MaxDetLimit	MinDetected	MaxDetected	UCL	N	DetFreq
Al	Reference - West of 191	6	5.5	.408	10	12			5.75	9	0
Al	Reference - Vega	10	8	2	12	20			16.9	2	0
Al	Reference - Verdure	381	82.2	129	20	31.2	133	381	177	7	28.6
Al	Reference - Verdure + Vega	381	65.7	118	12	31.2	133	381	139	9	22.2
Al	On-Site	6	5.36	.481	9	12			5.63	11	0
Al	Cross-Gradient - Off-Site	5.5	5.17	.236	10	11			5.56	3	0
Al	Down-Gradient - Upper Canyon	942	87	224	9	20	320	942	169	22	13.6
Al	Down-Gradient - Middle Canyon	350	341	9.5			331	350	383	2	100
Al	Down-Gradient - Lower Canyon	10	6.82	2.06	9	20			7.8	14	0
Al	Down-Gradient - Up + Mid + Low Canyon	942	70.8	186	9	20	320	942	122	38	13.2
Al	Down-Gradient - Off-Site	912	231	327	10	12	114	912	501	6	50
As	Reference - West of 191	1.5	.867	.362	1	2	1.3	1.5	1.09	9	22.2
As	Reference - Vega	6.1	3.65	2.45			1.2	6.1	14.6	2	100
As	Reference - Verdure	2.1	1.59	.352			1.1	2.1	1.84	7	100
As	Reference - Verdure + Vega	6.1	2.04	1.47			1.1	6.1	2.96	9	100
As	On-Site	921	104	264	.44	1	1	921	249	11	45.5
As	Cross-Gradient - Off-Site	5.8	4.4	.99			3.7	5.8	6.07	3	100
As	Down-Gradient - Upper Canyon	16	3.02	3.4	.44	1	1.3	16	4.27	22	81.8
As	Down-Gradient - Middle Canyon	3.4	3.25	.15			3.1	3.4	3.92	2	100
As	Down-Gradient - Lower Canyon	6	3.59	2.17	.44	1	1.6	6	4.61	14	78.6
As	Down-Gradient - Up + Mid + Low Canyon	16	3.24	2.92	.44	1	1.3	16	4.04	38	81.6
As	Down-Gradient - Off-Site	7.6	4.82	1.44			2.8	7.6	6	6	100
Co	Reference - West of 191	4	3.5	.5	6	8			3.91	6	0
Co	Reference - Vega	2.5	2.25	.25	4	5			3.37	2	0
Co	Reference - Verdure	3.3	2.74	.643	4	6.6			3.22	7	0
Co	Reference - Verdure + Vega	3.3	2.63	.615	4	6.6			3.01	9	0
Co	On-Site	4	3.5	.463	6	8			3.84	7	0
Co	Cross-Gradient - Off-Site	4	4	0	8	8				1	0
Co	Down-Gradient - Upper Canyon	4	3.05	.735	4	8			3.35	18	0
Co	Down-Gradient - Middle Canyon	3.3	3.3	0	6.6	6.6			3.3	2	0
Co	Down-Gradient - Lower Canyon	4	2.83	.717	4	8			3.2	12	0
Co	Down-Gradient - Up + Mid + Low Canyon	4	2.98	.717	4	8			3.2	32	0
Co	Down-Gradient - Off-Site	4	3.38	.331	6	8			3.7	5	0
Cu	Reference - West of 191	5.6	2.29	1.19	3	4	5.6	5.6	3.03	9	11.1
Cu	Reference - Vega	2.5	2.25	.25	4	5			3.37	2	0
Cu	Reference - Verdure	2.5	2.13	.322	3.7	5			2.36	7	0
Cu	Reference - Verdure + Vega	2.5	2.16	.311	3.7	5			2.35	9	0
Cu	On-Site	21.7	4.58	5.89	3	4	4.4	21.7	7.8	11	27.3
Cu	Cross-Gradient - Off-Site	2	1.83	.236	3	4			2.23	3	0
Cu	Down-Gradient - Upper Canyon	4.7	2.3	.819	3	5	3.9	4.7	2.61	22	13.6
Cu	Down-Gradient - Middle Canyon	1.85	1.85	0	3.7	3.7			1.85	2	0
Cu	Down-Gradient - Lower Canyon	13.8	2.84	3.06	3	5	13.8	13.8	4.29	14	7.14
Cu	Down-Gradient - Up + Mid + Low Canyon	13.8	2.48	1.98	3	5	3.9	13.8	3.02	38	10.5
Cu	Down-Gradient - Off-Site	2	1.84	.167	3	4			1.98	6	0
Mn	Reference - West of 191	181	44.2	59.1			2	181	80.9	9	100
Mn	Reference - Vega	2280	1250	1030			221	2280	5850	2	100
Mn	Reference - Verdure	499	196	189			11.8	499	334	7	100
Mn	Reference - Verdure + Vega	2280	430	675			11.8	2280	849	9	100
Mn	On-Site	500	208	167			18.7	500	299	11	100
Mn	Cross-Gradient - Off-Site	69.8	40.9	20.4			26.3	69.8	75.4	3	100
Mn	Down-Gradient - Upper Canyon	601	228	140			25.2	601	280	22	100

Upper Canyon = Upper Montezuma Creek; Lower Canyon = Lower Montezuma Creek; Middle Canyon = Middle Montezuma Creek

[a]Metals are reported in µg/L and radiological data are reported in pCi/L.

Filtered Surface Water Statistics[a]

Analyte	Position	Maximum	Average	Stand	MinDetLimit	MaxDetLimit	MinDetected	MaxDetected	UCL	N	DetFreq
Mn	Down-Gradient - Middle Canyon	208	203	5.5			197	208	227	2	100
Mn	Down-Gradient - Lower Canyon	396	170	114	1	1	49.4	396	224	14	92.9
Mn	Down-Gradient - Up + Mid + Low Canyon	601	205	130	1	1	25.2	601	241	38	97.4
Mn	Down-Gradient - Off-Site	382	211	117			90.6	382	307	6	100
Mo	Reference - West of 191	15.9	4.8	4.4	14	14	1.7	15.9	7.53	9	77.8
Mo	Reference - Vega	13	6.78	6.23	1.1	26			34.6	2	0
Mo	Reference - Verdure	13	8.07	4.28	26	26	4	5	11.2	7	57.1
Mo	Reference - Verdure + Vega	13	7.78	4.81	1.1	26	4	5	10.8	9	44.4
Mo	On-Site	1490	152	424	14	14	2.3	1490	383	11	81.8
Mo	Cross-Gradient - Off-Site	3.4	1.7	1.24	1	1	1.2	3.4	3.78	3	66.7
Mo	Down-Gradient - Upper Canyon	45.9	18.5	11.4	14	26	10.7	45.9	22.7	22	63.6
Mo	Down-Gradient - Middle Canyon	16	15.8	.2			15.6	16	16.7	2	100
Mo	Down-Gradient - Lower Canyon	28	16.4	5.78	14	26	13	28	19.1	14	64.3
Mo	Down-Gradient - Up + Mid + Low Canyon	45.9	17.6	9.39	14	26	10.7	45.9	20.2	38	65.8
Mo	Down-Gradient - Off-Site	23.4	14.3	4.62			9.3	23.4	18.1	6	100
Pb	Reference - West of 191	.5	.5	0	1	1			.5	6	0
Pb	Reference - Vega	.5	.5	0	1	1				1	0
Pb	Reference - Verdure	1.1	.775	.244			.48	1.1	1.06	4	100
Pb	Reference - Verdure + Vega	1.1	.72	.244	1	1	.48	1.1	.953	5	80
Pb	On-Site	.5	.463	.0992	.4	1			.529	8	0
Pb	Cross-Gradient - Off-Site	.5	.5	0	1	1			.5	3	0
Pb	Down-Gradient - Upper Canyon	1.2	.571	.279	.4	1	.72	1.2	.709	13	23.1
Pb	Down-Gradient - Middle Canyon	.79	.78	.01			.77	.79	.825	2	100
Pb	Down-Gradient - Lower Canyon	.5	.45	.112	.4	1			.542	6	0
Pb	Down-Gradient - Up + Mid + Low Canyon	1.2	.556	.245	.4	1	.72	1.2	.648	21	23.8
Pb	Down-Gradient - Off-Site	1.1	.796	.192	1	1	.74	1.1	.979	5	80
Se	Reference - West of 191	1.1	.733	.262	1	2	1.1	1.1	.896	9	11.1
Se	Reference - Vega	1	1	0	2	2			1	2	0
Se	Reference - Verdure	2.6	1.16	.59	1.7	2	2.6	2.6	1.6	7	14.3
Se	Reference - Verdure + Vega	2.6	1.13	.525	1.7	2	2.6	2.6	1.45	9	11.1
Se	On-Site	504	50.5	144	1	1	1.3	504	129	11	72.7
Se	Cross-Gradient - Off-Site	1	.833	.236	1	2			1.23	3	0
Se	Down-Gradient - Upper Canyon	11.5	3.13	2.77	1	2	1.4	11.5	4.15	22	77.3
Se	Down-Gradient - Middle Canyon	2.3	1.58	.725	1.7	1.7	2.3	2.3	4.81	2	50
Se	Down-Gradient - Lower Canyon	6.1	1.97	1.56	1	2	2	6.1	2.71	14	50
Se	Down-Gradient - Up + Mid + Low Canyon	11.5	2.62	2.4	1	2	1.4	11.5	3.28	38	65.8
Se	Down-Gradient - Off-Site	1	.842	.167	1	2	1	1	.979	6	16.7
U	Reference - West of 191	3.6	2.33	1.02			1.1	3.6	4.05	3	100
U	Reference - Verdure	1.15	1.09	.0415	2.1	2.3			1.14	4	0
U	Reference - Verdure + Vega	1.15	1.09	.0415	2.1	2.3			1.14	4	0
U	On-Site	2660	1100	1260			29.7	2660	2290	5	100
U	Cross-Gradient - Off-Site	35	19.2	15.8			3.4	35	89.7	2	100
U	Down-Gradient - Upper Canyon	291	186	48.7			136	291	216	9	100
U	Down-Gradient - Middle Canyon	136	135	1.5			133	136	141	2	100
U	Down-Gradient - Lower Canyon	182	161	22.8			129	182	199	3	100
U	Down-Gradient - Up + Mid + Low Canyon	291	173	44.6			129	291	194	14	100
U	Down-Gradient - Off-Site	104	79.8	24.2			49	104	108	4	100
V	Reference - West of 191	6.2	3.13	1.16	4	6	6.2	6.2	3.85	9	11.1
V	Reference - Vega	2.5	2.25	.25	4	5			3.37	2	0
V	Reference - Verdure	3.85	3.06	.916	4	7.7			3.73	7	0

Upper Canyon = Upper Montezuma Creek; Lower Canyon = Lower Montezuma Creek; Middle Canyon = Middle Montezuma Creek

[a]Metals are reported in µg/L and radiological data are reported in pCi/L.

Filtered Surface Water Statistics[a]

Analyte	Position	Maximum	Average	Stand	MinDetLimit	MaxDetLimit	MinDetected	MaxDetected	UCL	N	DetFreq
V	Reference - Verdure + Vega	3.85	2.88	.882	4	7.7			3.42	9	0
V	On-Site	33100	3650	9480	4	6	7.2	33100	8820	11	54.5
V	Cross-Gradient - Off-Site	15.1	6.7	5.95	4	6	15.1	15.1	16.7	3	33.3
V	Down-Gradient - Upper Canyon	411	43.9	96.7	4	7.7	9.8	411	79.4	22	63.6
V	Down-Gradient - Middle Canyon	3.85	3.85	0	7.7	7.7			3.85	2	0
V	Down-Gradient - Lower Canyon	30.5	7.39	9.03	4	6	4.7	30.5	11.7	14	42.9
V	Down-Gradient - Up + Mid + Low Canyon	411	28.3	76	4	7.7	4.7	411	49.2	38	52.6
V	Down-Gradient - Off-Site	8.3	4.14	1.98	4	7.7	8.3	8.3	5.77	6	16.7
Zn	Reference - West of 191	23.2	6.04	8.91	2	3	22.2	23.2	11.6	9	22.2
Zn	Reference - Vega	16.7	8.85	7.85	2	2	16.7	16.7	43.9	2	50
Zn	Reference - Verdure	32.1	15.2	7.8			6.2	32.1	20.9	7	100
Zn	Reference - Verdure + Vega	32.1	13.8	8.24	2	2	6.2	32.1	18.9	9	88.9
Zn	On-Site	19.8	5.31	6.86	2	3	2.1	19.8	9.06	11	36.4
Zn	Cross-Gradient - Off-Site	15.7	6.33	6.64	2	2	2.3	15.7	17.5	3	66.7
Zn	Down-Gradient - Upper Canyon	20.7	5.54	5.7	2	3	5.8	20.7	7.63	22	40.9
Zn	Down-Gradient - Middle Canyon	5.5	4.4	1.1			3.3	5.5	9.31	2	100
Zn	Down-Gradient - Lower Canyon	30.3	4.7	7.64	2	3	4.8	30.3	8.31	14	28.6
Zn	Down-Gradient - Up + Mid + Low Canyon	30.3	5.17	6.37	2	3	3.3	30.3	6.92	38	39.5
Zn	Down-Gradient - Off-Site	20.1	9.93	8.87	1.9	3	16.2	20.1	17.2	6	50

Upper Canyon = Upper Montezuma Creek; Lower Canyon = Lower Montezuma Creek; Middle Canyon = Middle Montezuma Creek

[a]Metals are reported in µg/L and radiological data are reported in pCi/L.

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Alluvial-Aquifer System Groundwater Statistics[a]

Analyte	Position	Maximum	Average	Stand	MinDetLimit	MaxDetLimit	MinDetected	MaxDetected	UCL	N	DetFreq
Al	Reference - West of 191	2050	288	507	9	12	17.2	2050	519	15	86.7
Al	On-Site	492	59.5	83.2	9	29	10.6	492	78.3	55	76.4
Al	Down-Gradient	916	80.3	151	9	29	10.4	916	111	67	65.7
Alpha	Reference - West of 191	38.5	16.2	8.07	12.1	77			18.9	26	0
Alpha	On-Site	9780	1700	1960	25.2	184	34	9780	2090	73	80.8
Alpha	Down-Gradient	2330	487	502	9.1	84.1	6.7	2330	588	69	88.4
As	Reference - West of 191	3.6	1.42	.916	1	4	3	3.6	1.77	20	15
As	On-Site	256	48.2	51.1	.44	4	3	256	59	63	71.4
As	Cross-Gradient	2.2	2.2	0	4.4	4.4				1	0
As	Down-Gradient	42.2	8.96	11.7	.44	4	1.1	42.2	11.3	68	55.9
Beta	Reference - West of 191	26	12.3	6.77	7	52			14.5	26	0
Beta	On-Site	4230	554	722	19.8	193	20.9	4230	695	73	71.2
Beta	Down-Gradient	1040	171	173	9.5	81.2	4.6	1040	206	69	78.3
Co	Reference - West of 191	5	3.89	.68	6	10			4.32	9	0
Co	On-Site	61.3	9.4	12.9	6	10	8.8	61.3	13.3	31	22.6
Co	Down-Gradient	7.4	3.91	1.01	5.6	10	6.1	7.4	4.18	39	7.69
Cu	Reference - West of 191	6.8	2.05	1.17	2	5	6.8	6.8	2.5	20	5
Cu	On-Site	174	5.59	21.8	2	5	3.4	174	10.2	63	14.3
Cu	Cross-Gradient	1.5	1.5	0	3	3				1	0
Cu	Down-Gradient	28.5	3.23	4.96	2	5	3.4	28.5	4.23	68	13.2
Mn	Reference - West of 191	181	30.4	48.1	1	1	1.2	181	52.3	15	86.7
Mn	On-Site	14100	4440	4170			12.5	14100	5390	55	100
Mn	Down-Gradient	4210	516	782	1	1	1.9	4210	676	67	98.5
Mo	Reference - West of 191	13.5	4.36	4.19	1	27	1.4	3.6	5.98	20	50
Mo	On-Site	34000	817	4220	.56	27	2.1	34000	1710	63	82.5
Mo	Down-Gradient	264	71.1	74.4	.56	27	1.4	264	86.1	68	79.4
Mo	Cross-Gradient	14.5	14.5	0	29	29				1	0
NO3	Reference - West of 191	20900	3770	5920			31.8	20900	7000	11	100
NO3	On-Site	266000	45000	86800			19.1	266000	72400	29	100
NO3	Down-Gradient	53700	14100	16000			36.9	53700	20000	22	100
NO3+NO2	On-Site	2	2	0	4	4				1	0
NO3+NO2	Cross-Gradient	6620	6620	0			6620	6620		1	100
NO3+NO2-N	Reference - West of 191	4330	1010	1370			35.6	4330	1630	15	100
NO3+NO2-N	On-Site	263000	10100	40200	7	10	7	263000	20300	44	90.9
NO3+NO2-N	Down-Gradient	5370	1450	1540	7	10	7.2	5370	1830	47	85.1
Pb	Reference - West of 191	3.2	1.08	.936	1	1	1.1	3.2	1.54	13	38.5
Pb	On-Site	22.9	1.08	3.21	.44	1	1.1	22.9	1.86	48	14.6
Pb	Cross-Gradient	.5	.5	0	1	1				1	0
Pb	Down-Gradient	24.8	1.3	3.28	.44	1.1	.66	24.8	2.02	59	27.1
Pb210	Reference - West of 191	1	1	0	2	2			1	24	0
Pb210	On-Site	91	11	17.6	1.3	2.2	1.5	91	14.7	66	63.6
Pb210	Down-Gradient	36.8	4.38	6.37	1.2	2.6	.36	36.8	5.72	63	50.8

[a]Metals are reported in µg/L and radiological data are reported in pCi/L.

Alluvial-Aquifer System Groundwater Statistics[a]

Analyte	Position	Maximum	Average	Stand	MinDetLimit	MaxDetLimit	MinDetected	MaxDetected	UCL	N	DetFreq
Ra226	Reference - West of 191	.56	.208	.134	.05	.55	.1	.56	.253	26	30.8
Ra226	On-Site	26.5	2.52	4.86	.04	1.5	.1	26.5	3.46	74	59.5
Ra226	Cross-Gradient	.32	.32	0	.64	.64				1	0
Ra226	Down-Gradient	3.2	.389	.683	.02	1.3	.1	3.2	.526	69	40.6
Rn222	Reference - West of 191	1270	732	259			203	1270	817	27	100
Rn222	On-Site	182000	8590	24900			99	182000	13500	73	100
Rn222	Down-Gradient	10600	1200	1620			49	10600	1530	69	100
SO4	Reference - West of 191	1430	580	412			70.8	1430	718	26	100
SO4	On-Site	5820	1340	820			316	5820	1500	74	100
SO4	Cross-Gradient	938	938	0			938	938		1	100
SO4	Down-Gradient	1720	830	275			112	1720	885	69	100
Se	Reference - West of 191	7.5	2.06	1.97	1	15	1.6	5.1	2.82	20	25
Se	On-Site	395	15.3	49.6	1	3	1.3	395	25.7	63	66.7
Se	Cross-Gradient	18.5	18.5	0			18.5	18.5		1	100
Se	Down-Gradient	57.4	11.3	11.8	1	3.3	3.5	57.4	13.7	68	67.6
Th230	Reference - West of 191	.45	.155	.127	.05	.76	.3	.45	.197	26	11.5
Th230	On-Site	3.9	.481	.685	.07	7.8	.34	2.5	.615	73	12.3
Th230	Down-Gradient	3.3	.35	.477	.07	6.6	.03	.92	.446	69	13
U	Reference - West of 191	6.3	4.78	1.2			2.5	6.3	5.29	17	100
U	On-Site	12600	1830	2390			21.6	12600	2370	56	100
U	Cross-Gradient	16.9	16.9	0			16.9	16.9		1	100
U	Down-Gradient	2870	700	604			.58	2870	837	55	100
U234	Reference - West of 191	5.4	3.09	1.5	.04	5.5	.37	5.4	3.6	25	84
U234	On-Site	3130	674	691			10	3130	813	69	100
U234	Down-Gradient	968	213	187			.39	968	251	67	100
U235	Reference - West of 191	.5	.191	.168	.07	1	.42	.49	.254	21	9.52
U235	On-Site	194	40.9	46.1	.11	1	.39	194	51.4	55	89.1
U235	Down-Gradient	51.5	9.8	9.81	.05	16.8	.02	51.5	12	55	85.5
U238	Reference - West of 191	3.1	1.7	.73	.28	.28	.38	3.1	1.95	25	96
U238	On-Site	3200	685	705			7.9	3200	827	69	100
U238	Down-Gradient	986	216	192	1.1	1.1	.25	986	255	67	98.5
V	Reference - West of 191	4	2.83	.653	4	8			3.08	20	0
V	On-Site	2920	662	826	4	8	60.8	2920	836	63	71.4
V	Cross-Gradient	2.5	2.5	0	5	5				1	0
V	Down-Gradient	1000	227	308	4	8	6.8	1000	290	68	51.5
Zn	Reference - West of 191	29.7	6.43	7.43	2	7	2.9	29.7	9.81	15	46.7
Zn	On-Site	27.3	7.07	6.35	2	7	2.7	27.3	8.5	55	65.5
Zn	Cross-Gradient	11	11	0			11	11		1	100
Zn	Down-Gradient	27	6.67	5.52	2	7	2.2	27	7.79	67	68.7

[a]Metals are reported in µg/L and radiological data are reported in pCi/L.

Lower Mancos Groundwater Statistics[a]

Analyte	Position	Maximum	Average	Stand	MinDetLimit	MaxDetLimit	MinDetected	MaxDetected	UCL	N	DetFreq
As	Reference	2.2	2.2	0	4.4	4.4				1	0
As	On-Site	10	4	3.46	4	20			8.08	4	0
Cu	Reference	1.5	1.5	0	3	3				1	0
Cu	On-Site	1.5	1.5	0	3	3			1.5	4	0
Mo	Reference	14.5	14.5	0	29	29				1	0
Mo	On-Site	60.2	25.9	19.8	29	29	60.2	60.2	49.2	4	25
NO3+NO2	Reference	6620	6620	0			6620	6620		1	100
NO3+NO2	On-Site	96500	33100	37200			2180	96500	76900	4	100
Pb	Reference	.5	.5	0	1	1				1	0
Pb	On-Site	5.4	1.73	2.12	1	1	5.4	5.4	4.22	4	25
Ra226	Reference	.32	.32	0	.64	.64				1	0
Ra226	On-Site	.95	.469	.278	.58	1.9			.796	4	0
SO4	Reference	938	938	0			938	938		1	100
SO4	On-Site	2740	1910	616			1210	2740	2630	4	100
Se	Reference	18.5	18.5	0			18.5	18.5		1	100
Se	On-Site	12.5	4.88	4.7	2	10	12.5	12.5	10.4	4	25
U	Reference	16.9	16.9	0			16.9	16.9		1	100
U	On-Site	1290	341	548			16.1	1290	985	4	100
V	Reference	2.5	2.5	0	5	5				1	0
V	On-Site	196	53.7	82.3	5	5	13.7	196	150	4	50
Zn	Reference	11	11	0			11	11		1	100
Zn	On-Site	35.6	12.6	13.4	7	7	7.7	35.6	28.3	4	50

[a]Metals are reported in µg/L and radiological data are reported in pCi/L.

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Lower Dakota Sandstone Groundwater Statistics[a]

Analyte	Position	Maximum	Average	Stand	MinDetLimit	MaxDetLimit	MinDetected	MaxDetected	UCL	N	DetFreq
Al	Reference - West of 191	1860	1860	0			1860	1860		1	100
Al	Cross-Gradient	13800	13800	0			13800	13800		1	100
Alpha	Reference - West of 191	11.5	9.13	1.45	15	23			10.5	5	0
Alpha	Cross-Gradient	29.35	24.7	5.52	33.9	58.7	27.8	27.8	34	3	33.3
Alpha	Down-Gradient	884	160	324	16	23	15.2	884	426	6	50
As	Reference - West of 191	48.3	36.7	11.6			25.1	48.3	88.5	2	100
As	On-Site	4.5	4.5	0			4.5	4.5		1	100
As	Cross-Gradient	17.4	9.85	7.55			2.3	17.4	43.6	2	100
As	Down-Gradient	1	.61	.39	.44	2			2.35	2	0
Beta	Reference - West of 191	10	8.84	1.93	10	20			10.7	5	0
Beta	Cross-Gradient	24.8	18.8	8.49	13.6	49.6			33.1	3	0
Beta	Down-Gradient	321	60.7	116	10	23	321	321	157	6	16.7
Co	Reference - West of 191	4	4	0	8	8				1	0
Co	Cross-Gradient	3.3	3.3	0	6.6	6.6				1	0
Co	Down-Gradient	3.9	3.9	0	7.8	7.8				1	0
Cu	Reference - West of 191	8.8	5.15	3.65	3	3	8.8	8.8	21.4	2	50
Cu	On-Site	197	197	0			197	197		1	100
Cu	Cross-Gradient	166	83.9	82.1	3.7	3.7	166	166	450	2	50
Cu	Down-Gradient	1.65	1.33	.325	2	3.3			2.78	2	0
Mn	Reference - West of 191	51.6	51.6	0			51.6	51.6		1	100
Mn	Cross-Gradient	142	142	0			142	142		1	100
Mo	Reference - West of 191	146	92	54			38	146	333	2	100
Mo	On-Site	14.5	14.5	0	29	29				1	0
Mo	Cross-Gradient	34.2	22.8	11.4			11.4	34.2	73.7	2	100
Mo	Down-Gradient	109	92.7	16.3			76.4	109	165	2	100
NO3+NO2	On-Site	55	55	0			55	55		1	100
NO3+NO2	Cross-Gradient	343	343	0			343	343		1	100
NO3+NO2-N	Reference - West of 191	1340	429	518			25.4	1340	923	5	100
NO3+NO2-N	Down-Gradient	1220	887	317			246	1220	1150	6	100
NO3+NO2-N	Cross-Gradient	90.6	33.9	40.1	7	7	7.6	90.6	102	3	66.7
Pb	Reference - West of 191	5.8	5.8	0			5.8	5.8		1	100
Pb	On-Site	13.2	13.2	0			13.2	13.2		1	100
Pb	Cross-Gradient	127	67.7	59.3			8.4	127	332	2	100
Pb210	Reference - West of 191	1	.93	.14	1.3	2			1.06	5	0
Pb210	Cross-Gradient	.78	.677	.0759	1.2	1.3	.78	.78	.805	3	33.3
Pb210	Down-Gradient	1.35	1.02	.191	1.5	2.7			1.2	5	0
Ra226	Reference - West of 191	.25	.205	.0613	.19	.5	.18	.18	.263	5	20
Ra226	On-Site	.29	.29	0	.58	.58				1	0
Ra226	Cross-Gradient	2	1.22	.655	.37	.37	1.3	2	1.99	4	75
Ra226	Down-Gradient	1.2	.46	.372	.5	.5	.24	1.2	.814	5	80
Rn222	Reference - West of 191	287	199	69.5			92	287	265	5	100
Rn222	Down-Gradient	60	45.5	8.96	78	78	34	60	52.9	6	66.7

[a]Metals are reported in µg/L and radiological data are reported in pCi/L.

Lower Dakota Sandstone Groundwater Statistics[a]

Analyte	Position	Maximum	Average	Stand	MinDetLimit	MaxDetLimit	MinDetected	MaxDetected	UCL	N	DetFreq
Rn222	Cross-Gradient	76	58.3	20.2			30	76	92.5	3	100
SO4	Reference - West of 191	62.5	42.5	19.2			18.9	62.5	60.8	5	100
SO4	On-Site	9.36	9.36	0			9.36	9.36		1	100
SO4	Cross-Gradient	18.9	13.9	3.23			10.8	18.9	17.7	4	100
SO4	Down-Gradient	128	118	8.5			108	128	125	6	100
Se	Reference - West of 191	1	.75	.25	1	2			1.87	2	0
Se	On-Site	1	1	0	2	2				1	0
Se	Cross-Gradient	1.1	.975	.125	1.7	2.2			1.53	2	0
Se	Down-Gradient	2.8	1.65	1.15	1	1	2.8	2.8	6.78	2	50
Th230	Reference - West of 191	.38	.149	.127	.06	.76			.27	5	0
Th230	Cross-Gradient	.4	.162	.169	.11	.8	.03	.03	.446	3	33.3
Th230	Down-Gradient	.38	.141	.116	.07	.76			.236	6	0
U	Reference - West of 191	4.5	3.15	1.35			1.8	4.5	9.18	2	100
U	On-Site	6.9	6.9	0			6.9	6.9		1	100
U	Cross-Gradient	6	5.5	.5			5	6	7.73	2	100
U	Down-Gradient	10.8	7.1	3.7			3.4	10.8	23.6	2	100
U234	Reference - West of 191	5.1	3.26	1.76	.6	.6	2.4	5.1	4.94	5	80
U234	Down-Gradient	8.9	5.58	2.8	.6	.6	4	8.9	7.88	6	83.3
U234	Cross-Gradient	21.5	12.8	6.14			8	21.5	23.2	3	100
U235	Reference - West of 191	.5	.177	.169	.08	1			.338	5	0
U235	Down-Gradient	.5	.158	.159	.08	1			.289	6	0
U235	Cross-Gradient	.55	.285	.204	.11	1.1	.25	.25	.628	3	33.3
U238	Reference - West of 191	2.1	1.32	.527	1	1	1.2	2.1	1.82	5	80
U238	Cross-Gradient	5	2.83	1.54			1.6	5	5.42	3	100
U238	Down-Gradient	2.7	1.87	.618			1	2.7	2.38	6	100
V	Reference - West of 191	18.9	10.5	8.45	4	4	18.9	18.9	48.2	2	50
V	On-Site	2.5	2.5	0	5	5				1	0
V	Cross-Gradient	57.5	33.1	24.5			8.6	57.5	142	2	100
V	Down-Gradient	3.35	2.93	.425	5	6.7			4.82	2	0
Zn	Reference - West of 191	16.1	16.1	0			16.1	16.1		1	100
Zn	On-Site	67.3	67.3	0			67.3	67.3		1	100
Zn	Cross-Gradient	440	241	199			41.5	440	1130	2	100

[a]Metals are reported in µg/L and radiological data are reported in pCi/L.

Burro Canyon Aquifer Groundwater Statistics[a]

Analyte	Position	Maximum	Average	Stand	MinDetLimit	MaxDetLimit	MinDetected	MaxDetected	UCL	N	DetFreq
Al	Reference - West of 191	304	40.6	71.1	9	29	9.5	304	64	27	59.3
Al	On-Site	53.8	19.3	15.8	10	29	15	53.8	25.8	18	50
Al	Down-Gradient	413	43.3	78.1	10	31.2	11.7	413	66.7	32	56.3
Al	Cross-Gradient	42.6	19.3	15.5	10	11	24	42.6	37.5	4	50
Alpha	Reference - West of 191	20	7.39	3.82	7	40	12.6	12.6	8.65	27	3.7
Alpha	On-Site	90	13	19.4	7.3	30	25.9	90	20.9	18	11.1
Alpha	Cross-Gradient	18	13.8	3.36	17.2	36	14	14	17.7	4	25
Alpha	Down-Gradient	66.5	12.9	14.4	8.8	133	4.1	60.2	17.1	34	11.8
As	Reference	2	2	0	4	4				1	0
As	Reference - West of 191	15.8	4.82	3.81	1	4.4	1.6	15.8	6.07	27	70.4
As	On-Site	4.8	2.13	1.23	1	4.4	2.2	4.8	2.62	19	26.3
As	Down-Gradient	11.8	2.25	2.48	.44	4	2	11.8	2.98	34	32.4
As	Cross-Gradient	51.4	24.3	20.4	2	4	25.5	51.4	43.7	5	60
Beta	Reference - West of 191	15	6	3.37	6.5	30			7.11	27	0
Beta	On-Site	15	7.38	3.74	6.7	30			8.91	18	0
Beta	Cross-Gradient	16.5	9.96	4.01	13	33			14.7	4	0
Beta	Down-Gradient	49.5	9.93	8.81	4.6	99	17.7	17.7	12.5	34	2.94
Co	Reference - West of 191	5	3.84	.761	6	10			4.23	12	0
Co	On-Site	5	3.92	.841	6	10			4.44	9	0
Co	Cross-Gradient	4	3.68	.325	6.7	8			5.13	2	0
Co	Down-Gradient	5	3.62	.688	5.6	10			3.87	22	0
Cu	Reference	4.2	4.2	0			4.2	4.2		1	100
Cu	Reference - West of 191	4.2	1.86	.644	2	5	4.2	4.2	2.07	27	3.7
Cu	On-Site	24.7	3.91	6.14	2	5	18.3	24.7	6.35	19	10.5
Cu	Cross-Gradient	3.2	2.08	.624	3	4.4	3.2	3.2	2.68	5	20
Cu	Down-Gradient	23	2.56	3.65	2	5	6.1	23	3.62	34	5.88
Mn	Reference - West of 191	773	505	109			351	773	541	27	100
Mn	On-Site	416	239	163			29.8	416	306	18	100
Mn	Cross-Gradient	1020	980	31.1			948	1020	1020	4	100
Mn	Down-Gradient	501	285	104			62.6	501	317	32	100
Mo	Reference	14.5	14.5	0	29	29				1	0
Mo	Reference - West of 191	60.6	13.2	13.6	1	27	1.3	60.6	17.6	27	63
Mo	On-Site	31.8	6.65	9.32	.56	27	1	31.8	10.4	19	36.8
Mo	Cross-Gradient	14.5	7.72	5.64	15.6	29	1.3	1.5	13.1	5	40
Mo	Down-Gradient	13.5	3.28	4.22	.56	27	1.1	10.5	4.51	34	35.3
NO3	Reference - West of 191	1470	198	407	10	10	17.9	1470	409	12	91.7
NO3	On-Site	82	44.9	20.6			16.2	82	55.6	12	100
NO3	Down-Gradient	120	38.7	28.8			8.5	120	54.4	11	100
NO3+NO2	Reference	168	168	0			168	168		1	100
NO3+NO2	On-Site	30.8	30.8	0			30.8	30.8		1	100
NO3+NO2	Cross-Gradient	56	56	0			56	56		1	100
NO3+NO2-N	Reference - West of 191	94.1	36.8	27.1	10	20	18.6	94.1	49.1	15	73.3
NO3+NO2-N	On-Site	40.1	21	11.1	7	7	16.4	40.1	30.1	6	83.3
NO3+NO2-N	Down-Gradient	71.4	19.6	20	7	10	9.5	71.4	26.7	23	56.5
NO3+NO2-N	Cross-Gradient	27.3	12.9	8.55	10	10	8.9	27.3	22.9	4	75

[a]Metals are reported in µg/L and radiological data are reported in pCi/L.

Burro Canyon Aquifer Groundwater Statistics[a]

Analyte	Position	Maximum	Average	Stand	MinDetLimit	MaxDetLimit	MinDetected	MaxDetected	UCL	N	DetFreq
Pb	Reference	9.1	9.1	0			9.1	9.1		1	100
Pb	Reference - West of 191	12.1	1.88	2.64	1	1	1.2	12.1	2.8	24	45.8
Pb	On-Site	21.7	1.81	4.84	.44	1	1.6	21.7	3.8	18	16.7
Pb	Cross-Gradient	.5	.5	0	1	1			.5	4	0
Pb	Down-Gradient	8	1.23	1.76	.44	1.1	.52	8	1.77	30	33.3
Pb210	Reference - West of 191	1	1	0	2	2			1	24	0
Pb210	On-Site	1	.977	.0873	1.3	2			1.02	15	0
Pb210	Cross-Gradient	2.4	1.28	.661	1.4	2	2.4	2.4	2.05	4	25
Pb210	Down-Gradient	1.7	.902	.264	1.1	2	.43	1.7	.983	31	16.1
Ra226	Reference	.22	.22	0			.22	.22		1	100
Ra226	Reference - West of 191	1.9	.687	.417	.5	.5	.3	1.9	.824	27	88.9
Ra226	On-Site	1.1	.602	.274	.35	.51	.2	1.1	.711	19	84.2
Ra226	Down-Gradient	2.2	1.24	.375	.41	.41	.52	2.2	1.35	34	97.1
Ra226	Cross-Gradient	2	1.6	.432			.78	2	2.01	5	100
Rn222	Reference - West of 191	175	83.3	35.3	67	107	47	175	94.9	27	74.1
Rn222	On-Site	203	126	35.1			67	203	141	18	100
Rn222	Cross-Gradient	134	120	8.32			112	134	130	4	100
Rn222	Down-Gradient	353	185	78.5			58	353	208	34	100
SO4	Reference	48	48	0			48	48		1	100
SO4	Reference - West of 191	489	100	80.7			46.8	489	127	27	100
SO4	On-Site	118	89.5	18.6			54.6	118	96.9	19	100
SO4	Down-Gradient	726	196	191			34.7	726	252	34	100
SO4	Cross-Gradient	457	363	144			78.3	457	500	5	100
Se	Reference	1	1	0	2	2				1	0
Se	Reference - West of 191	3.1	1.17	.712	1	3.3	1	3.1	1.41	27	18.5
Se	On-Site	1.5	1.01	.317	1	3			1.14	19	0
Se	Cross-Gradient	1	.71	.237	1	2			.936	5	0
Se	Down-Gradient	8.1	1.24	1.35	1	3.3	1.3	8.1	1.63	34	8.82
Th230	Reference - West of 191	.54	.149	.125	.07	.76	.54	.54	.19	27	3.7
Th230	On-Site	.76	.197	.201	.1	.76	.42	.76	.28	18	16.7
Th230	Down-Gradient	.42	.155	.14	.04	.8	.04	.42	.196	34	11.8
Th230	Cross-Gradient	.38	.193	.111	.18	.76			.323	4	0
U	Reference	1.8	1.8	0			1.8	1.8		1	100
U	Reference - West of 191	2.8	.721	.624	1	1	1.4	2.8	.939	24	12.5
U	On-Site	13.7	1.65	3.02	1	1	.52	13.7	2.88	18	38.9
U	Down-Gradient	46.5	4.38	10.8	.22	1	.4	46.5	7.85	28	35.7
U	Cross-Gradient	.5	.5	0	1	1			.5	4	0
U234	Reference - West of 191	12.2	3.34	3.46	.1	3.4	.32	12.2	4.48	27	77.8
U234	On-Site	22.8	3.4	6.72	.17	.81	.45	22.8	6.15	18	72.2
U234	Cross-Gradient	2.3	1.58	.76	.6	.6	1.8	2.3	2.47	4	75
U234	Down-Gradient	25.4	3.87	6.18	.14	.89	.41	25.4	5.67	34	79.4
U235	Reference - West of 191	.5	.175	.151	.04	1	.1	.35	.232	21	14.3
U235	On-Site	.5	.116	.122	.06	1			.179	12	0
U235	Cross-Gradient	.5	.214	.17	.11	1			.413	4	0
U235	Down-Gradient	.87	.223	.238	.03	1.1	.04	.87	.298	29	13.8

[a]Metals are reported in µg/L and radiological data are reported in pCi/L.

Burro Canyon Aquifer Groundwater Statistics[a]

Analyte	Position	Maximum	Average	Stand	MinDetLimit	MaxDetLimit	MinDetected	MaxDetected	UCL	N	DetFreq
U238	Reference - West of 191	3.2	.438	.621	.05	1	.17	3.2	.642	27	37
U238	On-Site	22.1	1.81	5.05	.08	1	.32	22.1	3.88	18	44.4
U238	Cross-Gradient	.5	.213	.171	.1	1			.414	4	0
U238	Down-Gradient	17.1	1.86	4.03	.06	1.1	.06	17.1	3.03	34	47.1
V	Reference	8.2	8.2	0			8.2	8.2		1	100
V	Reference - West of 191	4.5	2.8	.758	4	9			3.05	27	0
V	On-Site	4.5	2.88	.842	4	9			3.21	19	0
V	Down-Gradient	23.2	3.6	3.48	4	8	23.2	23.2	4.61	34	2.94
V	Cross-Gradient	3.35	2.67	.464	4	6.7			3.11	5	0
Zn	Reference	81.3	81.3	0			81.3	81.3		1	100
Zn	Reference - West of 191	24.2	6.35	6.6	2	7	3.4	24.2	8.52	27	51.9
Zn	On-Site	33.3	8.02	8.61	2	6	3.8	33.3	11.4	19	57.9
Zn	Down-Gradient	70.6	10.5	13.5	2	7	2	70.6	14.6	32	71.9
Zn	Cross-Gradient	12.8	7.06	4.22	2	2	3.9	12.8	11.1	5	80

[a]Metals are reported in µg/L and radiological data are reported in pCi/L.

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Soil Statistics[a]

Analyte	Position	Maximum	Normal Average	Normal Stand	MinDetLimit	MaxDetLimit	MinDetected	MaxDetected	Lognormal UCL	N	Det Freq
Al	Reference - Supplemental Standards	19700	15700	3270			12400	19700	22800	4	100
Al	Reference - Verdure	16700	11900	2420			8090	16700	13200	14	100
Al	Reference - Verdure + Supple. Stds.	19700	12700	3080			8090	19700	14200	18	100
Al	Down-Gradient - Upper Canyon	20300	12300	3570			6310	20300	13200	59	100
Al	Down-Gradient - Up + Mid Canyon	21900	12400	3430			6310	21900	13100	86	100
Al	Down-Gradient - Middle Canyon	21900	12500	3110			6880	21900	13700	27	100
Al	Down-Gradient - Lower Canyon	16900	11300	2480			6520	16900	11800	69	100
Al	Down-Gradient - Up + Mid + Low Canyon	21900	11900	3100			6310	21900	12300	155	100
Al	Down-Gradient - Off-Site	15400	10900	2740			7070	15400	14300	6	100
As	Reference - Supplemental Standards	6.2	5.3	.612			4.5	6.2	6.34	4	100
As	Reference - Verdure	12.1	4.67	2.26			2.3	12.1	5.82	14	100
As	Reference - Verdure + Supple. Stds.	12.1	4.81	2.03			2.3	12.1	5.7	18	100
As	Down-Gradient - Upper Canyon	18.4	7.28	2.78			2.9	18.4	8.01	59	100
As	Down-Gradient - Up + Mid Canyon	18.4	7.16	2.68			2.7	18.4	7.75	87	100
As	Down-Gradient - Middle Canyon	12.3	6.92	2.45			2.7	12.3	8.03	28	100
As	Down-Gradient - Lower Canyon	13.7	6.1	2.97			1.7	13.7	6.85	69	100
As	Down-Gradient - Up + Mid + Low Canyon	18.4	6.69	2.86			1.7	18.4	7.18	156	100
As	Down-Gradient - Off-Site	5	3.68	.841			2.6	5	4.73	6	100
Co	Reference - Supplemental Standards	5.7	5.35	.497			4.5	5.7	6.21	4	100
Co	Reference - Verdure	6.5	4.34	1.06			2	6.5	5.08	14	100
Co	Reference - Verdure + Supple. Stds.	6.5	4.57	1.05			2	6.5	5.2	18	100
Co	Down-Gradient - Upper Canyon	14	6.59	1.48			4.6	14	6.88	59	100
Co	Down-Gradient - Up + Mid Canyon	14	6.53	1.42			3.8	14	6.78	86	100
Co	Down-Gradient - Middle Canyon	8.9	6.41	1.26			3.8	8.9	6.91	27	100
Co	Down-Gradient - Lower Canyon	8.8	5.35	1.19			2.9	8.8	5.6	69	100
Co	Down-Gradient - Up + Mid + Low Canyon	14	6.01	1.45			2.9	14	6.2	155	100
Co	Down-Gradient - Off-Site	3.6	3.17	.435			2.4	3.6	3.67	6	100
Cu	Reference - Supplemental Standards	15	12.3	2.54			9.4	15	17.8	4	100
Cu	Reference - Verdure	11	7.92	1.46			5.1	11	8.76	14	100
Cu	Reference - Verdure + Supple. Stds.	15	8.89	2.53			5.1	15	10	18	100
Cu	Down-Gradient - Upper Canyon	229	58.3	48.2			11.5	229	73.9	59	100
Cu	Down-Gradient - Up + Mid Canyon	229	62.6	52.7			5.8	229	81	87	100
Cu	Down-Gradient - Middle Canyon	213	71.5	60.2			5.8	213	148	28	100
Cu	Down-Gradient - Lower Canyon	324	48.9	59.9			5.8	324	64.8	69	100
Cu	Down-Gradient - Up + Mid + Low Canyon	324	56.5	56.4			5.8	324	69.6	156	100
Cu	Down-Gradient - Off-Site	19.9	10.5	4.49			5.7	19.9	16.7	6	100
Gamma	Down-Gradient - Upper Canyon	103	32	20.3			14	103	34.9	102	100
Gamma	Down-Gradient - Up + Mid Canyon	103	30.8	19.2			14	103	33.1	123	100
Gamma	Down-Gradient - Middle Canyon	44	24.8	10.3			15	44	29.4	21	100
Gamma	Down-Gradient - Lower Canyon	81	24.9	14.8			12	81	28.1	51	100
Gamma	Down-Gradient - Up + Mid + Low Canyon	103	29.1	18.2			12	103	30.8	174	100
Mn	Reference - Supplemental Standards	473	407	47.1			340	473	488	4	100
Mn	Reference - Verdure	1060	426	183			283	1060	498	14	100
Mn	Reference - Verdure + Supple. Stds.	1060	422	163			283	1060	474	18	100
Mn	Down-Gradient - Upper Canyon	2300	507	357			270	2300	542	59	100
Mn	Down-Gradient - Up + Mid Canyon	2300	462	308			42.5	2300	496	87	100
Mn	Down-Gradient - Middle Canyon	805	366	110			42.5	805	447	28	100
Mn	Down-Gradient - Lower Canyon	564	352	64.4			232	564	365	69	100
Mn	Down-Gradient - Up + Mid + Low Canyon	2300	413	240			42.5	2300	429	156	100
Mn	Down-Gradient - Off-Site	364	318	26.8			284	364	345	6	100

Upper Canyon = Upper Montezuma Creek; Lower Canyon = Lower Montezuma Creek; Middle Canyon = Middle Montezuma Creek
[a]Metals are reported in mg/Kg and radiological data are reported in pCi/g.

Soil Statistics[a]

Analyte	Position	Maximum	Normal Average	Normal Stand	MinDetLimit	MaxDetLimit	MinDetected	MaxDetected	Lognormal UCL	N	Det Freq
Mo	Reference - Supplemental Standards	.95	.95	0	1.9	1.9			.95	4	0
Mo	Reference - Verdure	1.3	.87	.418	.31	2.6	.49	.91	1.53	14	42.9
Mo	Reference - Verdure + Supple. Stds.	1.3	.888	.371	.31	2.6	.49	.91	1.34	18	33.3
Mo	Down-Gradient - Upper Canyon	2.8	1.25	.457	2.6	2.6	.37	2.8	1.38	59	83.1
Mo	Down-Gradient - Up + Mid Canyon	2.8	1.18	.503	2.6	2.6	.15	2.8	1.33	87	88.5
Mo	Down-Gradient - Middle Canyon	2.6	1.03	.559			.15	2.6	1.38	28	100
Mo	Down-Gradient - Lower Canyon	2.8	.728	.572	.1	2.6	.16	2.8	.964	69	84.1
Mo	Down-Gradient - Up + Mid + Low Canyon	2.8	.98	.58	.1	2.6	.15	2.8	1.19	156	86.5
Mo	Down-Gradient - Off-Site	.24	.181	.04	.25	.32	.15	.24	.23	6	66.7
NO3+NO2-N	Reference - Verdure	6.1	2.2	1.16			1.3	6.1	2.69	14	100
NO3+NO2-N	Reference - Verdure + Supple. Stds.	6.1	2.2	1.16			1.3	6.1	2.69	14	100
NO3+NO2-N	Down-Gradient - Upper Canyon	11.2	3.18	2.39			.36	11.2	4.17	48	100
NO3+NO2-N	Down-Gradient - Up + Mid Canyon	13.4	3.42	2.62			.36	13.4	4.16	76	100
NO3+NO2-N	Down-Gradient - Middle Canyon	13.4	3.83	2.94			.97	13.4	5.16	28	100
NO3+NO2-N	Down-Gradient - Lower Canyon	28.2	3.83	4.99			.08	28.2	6.52	66	100
NO3+NO2-N	Down-Gradient - Up + Mid + Low Canyon	28.2	3.61	3.91			.08	28.2	4.72	142	100
NO3+NO2-N	Down-Gradient - Off-Site	35	7.93	12.1			1.9	35	68.8	6	100
Pb	Reference - Supplemental Standards	13.9	13.2	.723			12	13.9	14.3	4	100
Pb	Reference - Verdure	10.2	8.84	1.02			6.9	10.2	9.69	8	100
Pb	Reference - Verdure + Supple. Stds.	13.9	10.3	2.24			6.9	13.9	11.7	12	100
Pb	Down-Gradient - Upper Canyon	24	14	2.77			10	24	14.7	49	100
Pb	Down-Gradient - Up + Mid Canyon	24	13.7	2.96			6.2	24	14.3	77	100
Pb	Down-Gradient - Middle Canyon	18.7	13.1	3.19			6.2	18.7	14.4	28	100
Pb	Down-Gradient - Lower Canyon	34	11.3	4.18			6	34	12.1	61	100
Pb	Down-Gradient - Up + Mid + Low Canyon	34	12.6	3.74			6	34	13.2	138	100
Pb	Down-Gradient - Off-Site	10.3	7.87	1.37			6.7	10.3	9.3	6	100
Pb210	Reference - Verdure	2.4	.996	.399	1.6	2	2.4	2.4	1.15	14	7.14
Pb210	Reference - Verdure + Supple. Stds.	2.4	.996	.399	1.6	2	2.4	2.4	1.15	14	7.14
Pb210	Down-Gradient - Upper Canyon	94.2	14.7	17.3	1.4	2	2.6	94.2	24.6	59	84.7
Pb210	Down-Gradient - Up + Mid Canyon	94.2	13.9	15.7	1.3	2.1	1.3	94.2	22.6	87	83.9
Pb210	Down-Gradient - Middle Canyon	36.4	12.2	11.5	1.3	2.1	1.3	36.4	33.1	28	82.1
Pb210	Down-Gradient - Lower Canyon	74.4	10.3	15.8	1.3	2	1.4	74.4	15.1	69	82.6
Pb210	Down-Gradient - Up + Mid + Low Canyon	94.2	12.3	15.9	1.3	2.1	1.3	94.2	17.5	156	83.3
Pb210	Down-Gradient - Off-Site	2.1	1.09	.556	1.4	1.5	1.6	2.1	1.98	6	33.3
Ra226	Reference - Supplemental Standards	2.5	2.03	.349			1.6	2.5	2.7	4	100
Ra226	Reference - Verdure	2.2	1.6	.494	1	1	.61	2.2	1.85	44	90.9
Ra226	Reference - Verdure + Supple. Stds.	2.5	1.64	.498	1	1	.61	2.5	1.87	48	91.7
Ra226	Down-Gradient - Upper Canyon	131	13.8	18.2	1	1	1	131	16.1	215	98.6
Ra226	Down-Gradient - Up + Mid Canyon	131	14	18	1	1	.72	131	16.7	243	98.8
Ra226	Down-Gradient - Middle Canyon	55.9	15.8	15.6			.72	55.9	41	28	100
Ra226	Down-Gradient - Lower Canyon	120	11.4	20.7			.77	120	13	109	100
Ra226	Down-Gradient - Up + Mid + Low Canyon	131	13.2	18.9	1	1	.72	131	15	352	99.1
Ra226	Down-Gradient - Off-Site	3.7	1.73	.945			.8	3.7	3.3	6	100
SO4	Reference - Verdure	388	81.3	99.6			3.3	388	702	14	100
SO4	Reference - Verdure + Supple. Stds.	388	81.3	99.6			3.3	388	702	14	100
SO4	Down-Gradient - Upper Canyon	8020	1050	1760			5.7	8020	4970	48	100
SO4	Down-Gradient - Up + Mid Canyon	8020	797	1520			5.7	8020	2360	76	100
SO4	Down-Gradient - Middle Canyon	3970	363	851			11.2	3970	816	28	100
SO4	Down-Gradient - Lower Canyon	6340	777	1150			4.1	6340	5190	66	100
SO4	Down-Gradient - Up + Mid + Low Canyon	8020	788	1360			4.1	8020	2520	142	100
SO4	Down-Gradient - Off-Site	813	318	304			14.6	813	32300	6	100

Upper Canyon = Upper Montezuma Creek; Lower Canyon = Lower Montezuma Creek; Middle Canyon = Middle Montezuma Creek

[a] Metals are reported in mg/Kg and radiological data are reported in pCi/g.

Soil Statistics[a]

Analyte	Position	Maximum	Normal Average	Normal Stand	MinDetLimit	MaxDetLimit	MinDetected	MaxDetected	Lognormal UCL	N	Det Freq
Se	Reference - Supplemental Standards	.15	.15	0	.3	.3			.15	4	0
Se	Reference - Verdure	1.4	.82	.476	.2	.2	.29	1.4	1.88	14	85.7
Se	Reference - Verdure + Supple. Stds.	1.4	.671	.504	.2	.3	.29	1.4	1.43	18	66.7
Se	Down-Gradient - Upper Canyon	4.1	2.19	1.34	.6	2.2	.39	4.1	3.28	59	81.4
Se	Down-Gradient - Up + Mid Canyon	4.1	2.08	1.23	.3	2.2	.39	4.1	2.79	87	86.2
Se	Down-Gradient - Middle Canyon	3.6	1.84	.915	.3	.3	.74	3.6	2.57	28	96.4
Se	Down-Gradient - Lower Canyon	3.7	1.3	.801	.3	1.9	.32	3.7	1.69	69	85.5
Se	Down-Gradient - Up + Mid + Low Canyon	4.1	1.73	1.13	.3	2.2	.32	4.1	2.16	156	85.9
Se	Down-Gradient - Off-Site	2	1.36	.416			.68	2	2.06	6	100
Th230	Reference - Supplemental Standards	2.8	2.18	.531			1.6	2.8	3.46	4	100
Th230	Reference - Verdure	1.6	1.16	.196			.81	1.6	1.26	14	100
Th230	Reference - Verdure + Supple. Stds.	2.8	1.38	.522			.81	2.8	1.6	18	100
Th230	Down-Gradient - Upper Canyon	160	24.6	30.4	1.8	2.8	1.8	160	37.7	59	96.6
Th230	Down-Gradient - Up + Mid Canyon	160	22.8	27.6	1.8	2.8	.94	160	35.5	87	97.7
Th230	Down-Gradient - Middle Canyon	67.5	18.9	19.9			.94	67.5	52.2	28	100
Th230	Down-Gradient - Lower Canyon	149	16.3	29.4			.95	149	23.6	69	100
Th230	Down-Gradient - Up + Mid + Low Canyon	160	19.9	28.6	1.8	2.8	.94	160	28.4	156	98.7
Th230	Down-Gradient - Off-Site	4.2	2.05	1.06			1.1	4.2	3.75	6	100
U	Reference - Supplemental Standards	5.7	4.88	.698			4	5.7	6.16	4	100
U	Reference - Verdure	2.8	2.56	.212			2.1	2.8	2.74	8	100
U	Reference - Verdure + Supple. Stds.	5.7	3.33	1.17			2.1	5.7	4.06	12	100
U	Down-Gradient - Upper Canyon	98.9	20.9	18.5			2.9	98.9	26.8	49	100
U	Down-Gradient - Up + Mid Canyon	98.9	19.4	17			2.2	98.9	25	77	100
U	Down-Gradient - Middle Canyon	45.7	16.7	13.6			2.2	45.7	29.2	28	100
U	Down-Gradient - Lower Canyon	83.4	14.1	16.3			1.9	83.4	18.9	61	100
U	Down-Gradient - Up + Mid + Low Canyon	98.9	17.1	16.9			1.9	98.9	21.1	138	100
U	Down-Gradient - Off-Site	4.5	3.27	.675			2.6	4.5	4	6	100
U234	Reference - Verdure	1	.863	.0842			.72	1	.907	14	100
U234	Reference - Verdure + Supple. Stds.	1	.863	.0842			.72	1	.907	14	100
U234	Down-Gradient - Upper Canyon	32.4	6.89	6.06			.99	32.4	8.73	48	100
U234	Down-Gradient - Up + Mid Canyon	32.4	6.35	5.65			.72	32.4	8.17	76	100
U234	Down-Gradient - Middle Canyon	15.8	5.44	4.74			.72	15.8	9.4	28	100
U234	Down-Gradient - Lower Canyon	27.4	4.78	5.9			.65	27.4	6.26	66	100
U234	Down-Gradient - Up + Mid + Low Canyon	32.4	5.62	5.82			.65	32.4	6.91	142	100
U234	Down-Gradient - Off-Site	1.6	1.1	.257			.78	1.6	1.4	6	100
U235	Reference - Verdure	.1	.075	.0224	.08	.2			.0895	14	0
U235	Reference - Verdure + Supple. Stds.	.1	.075	.0224	.08	.2			.0895	14	0
U235	Down-Gradient - Upper Canyon	2.1	.309	.357	.04	.2	.09	2.1	.513	48	62.5
U235	Down-Gradient - Up + Mid Canyon	2.1	.289	.309	.04	.2	.05	2.1	.415	76	69.7
U235	Down-Gradient - Middle Canyon	.65	.256	.198	.06	.13	.05	.65	.423	28	82.1
U235	Down-Gradient - Lower Canyon	1.5	.247	.298	.05	.2	.05	1.5	.324	66	75.8
U235	Down-Gradient - Up + Mid + Low Canyon	2.1	.27	.304	.04	.2	.05	2.1	.339	142	72.5
U235	Down-Gradient - Off-Site	.04	.0258	.0102	.03	.08			.0409	6	0
U238	Reference - Verdure	1.1	.918	.0931			.79	1.1	.965	14	100
U238	Reference - Verdure + Supple. Stds.	1.1	.918	.0931			.79	1.1	.965	14	100
U238	Down-Gradient - Upper Canyon	33.3	7.06	6.26			1.2	33.3	8.86	48	100
U238	Down-Gradient - Up + Mid Canyon	33.3	6.48	5.79			.75	33.3	8.26	76	100
U238	Down-Gradient - Middle Canyon	15.1	5.49	4.74			.75	15.1	9.34	28	100
U238	Down-Gradient - Lower Canyon	27.8	4.83	5.98			.79	27.8	6.21	66	100
U238	Down-Gradient - Up + Mid + Low Canyon	33.3	5.71	5.94			.75	33.3	6.95	142	100
U238	Down-Gradient - Off-Site	1.7	1.17	.258			.93	1.7	1.44	6	100

Upper Canyon = Upper Montezuma Creek; Lower Canyon = Lower Montezuma Creek; Middle Canyon = Middle Montezuma Creek
[a]Metals are reported in mg/Kg and radiological data are reported in pCi/g.

Soil Statistics[a]

Analyte	Position	Maximum	Normal Average	Normal Stand	MinDetLimit	MaxDetLimit	MinDetected	MaxDetected	Lognormal UCL	N	Det Freq
V	Reference - Supplemental Standards	43.8	34.5	8.39			22.5	43.8	56.8	4	100
V	Reference - Verdure	25.2	19.5	3.33			14.3	25.2	21.3	14	100
V	Reference - Verdure + Supple. Stds.	43.8	22.8	7.95			14.3	43.8	26.2	18	100
V	Down-Gradient - Upper Canyon	488	97.6	83.6			17.2	488	117	59	100
V	Down-Gradient - Up + Mid Canyon	488	90.5	77.7			15.7	488	108	87	100
V	Down-Gradient - Middle Canyon	220	75.7	60.8			15.7	220	112	28	100
V	Down-Gradient - Lower Canyon	339	60.2	71.1			11.3	339	71	69	100
V	Down-Gradient - Up + Mid + Low Canyon	488	77.1	76.4			11.3	488	88.3	156	100
V	Down-Gradient - Off-Site	23.5	16.5	4.35			10.7	23.5	22.1	6	100
Zn	Reference - Supplemental Standards	61.6	49	12.3			35	61.6	79.9	4	100
Zn	Reference - Verdure	45.7	32.5	5.54			23.2	45.7	35.5	14	100
Zn	Reference - Verdure + Supple. Stds.	61.6	36.2	10.2			23.2	61.6	40.5	18	100
Zn	Down-Gradient - Upper Canyon	73.4	54.6	7.95			38.4	73.4	56.5	59	100
Zn	Down-Gradient - Up + Mid Canyon	79	54.2	10.7			4.4	79	58.7	87	100
Zn	Down-Gradient - Middle Canyon	79	53.2	14.8			4.4	79	69.2	28	100
Zn	Down-Gradient - Lower Canyon	83	42.6	11.8			19.6	83	45.5	68	100
Zn	Down-Gradient - Up + Mid + Low Canyon	83	49.1	12.6			4.4	83	52.1	155	100
Zn	Down-Gradient - Off-Site	27.8	24.8	3.13			20	27.8	28.3	6	100

Upper Canyon = Upper Montezuma Creek; Lower Canyon = Lower Montezuma Creek; Middle Canyon = Middle Montezuma Creek
[a]Metals are reported in mg/Kg and radiological data are reported in pCi/g.

Sediment Statistics[a]

Analyte	Position	Maximum	Normal Average	Normal Stand	MinDetLimit	MaxDetLimit	MinDetected	MaxDetected	Lognormal UCL	N	Det Freq
Al	Reference - Verdure	19300	13200	3380			8600	19300	15500	11	100
Al	Reference - Verdure + Vega	32600	14800	6270			8600	32600	18400	12	100
Al	Down-Gradient - Upper Canyon	26200	16700	4910			8870	26200	18400	34	100
Al	Down-Gradient - Up + Mid Canyon	26200	16200	4990			8210	26200	17900	38	100
Al	Down-Gradient - Middle Canyon	19000	12500	4000			8210	19000	23000	4	100
Al	Down-Gradient - Lower Canyon	15100	12600	1440			11600	15100	14900	4	100
Al	Down-Gradient - Up + Mid + Low Canyon	26200	15900	4890			8210	26200	17400	42	100
Al	Down-Gradient - Off-Site	17700	13600	2910			7710	17700	16700	8	100
As	Reference - Verdure	10	6.02	1.79			4.3	10	7.13	11	100
As	Reference - Verdure + Vega	10	6.01	1.72			4.3	10	6.99	12	100
As	Down-Gradient - Upper Canyon	12.2	7.44	2.13			4.6	12.2	8.08	34	100
As	Down-Gradient - Up + Mid Canyon	12.2	7.19	2.23			3	12.2	7.92	38	100
As	Down-Gradient - Middle Canyon	7.4	5.1	2.01			3	7.4	14.1	4	100
As	Down-Gradient - Lower Canyon	18.1	7.83	6.2			2.2	18.1	207	4	100
As	Down-Gradient - Up + Mid + Low Canyon	18.1	7.25	2.87			2.2	18.1	8.14	42	100
As	Down-Gradient - Off-Site	6.4	4.64	1.44	3	3	4	6.4	7.12	8	87.5
Co	Reference - Verdure	9.9	6.28	1.8			4.5	9.9	7.4	11	100
Co	Reference - Verdure + Vega	9.9	6.38	1.75			4.5	9.9	7.41	12	100
Co	Down-Gradient - Upper Canyon	9	6.57	.984			4.6	9	6.87	34	100
Co	Down-Gradient - Up + Mid Canyon	9	6.41	1.14			3.6	9	6.79	38	100
Co	Down-Gradient - Middle Canyon	6.8	5.05	1.47			3.6	6.8	9.18	4	100
Co	Down-Gradient - Lower Canyon	8.8	5.43	2			3.9	8.8	10.8	4	100
Co	Down-Gradient - Up + Mid + Low Canyon	9	6.32	1.28			3.6	9	6.72	42	100
Co	Down-Gradient - Off-Site	5.7	4.53	.634			3.3	5.7	5.07	8	100
Cu	Reference - Verdure	15.9	12.2	1.9			10.3	15.9	13.3	11	100
Cu	Reference - Verdure + Vega	16.4	12.5	2.17			10.3	16.4	13.8	12	100
Cu	Down-Gradient - Upper Canyon	220	42.6	39.2			12.8	220	49.8	34	100
Cu	Down-Gradient - Up + Mid Canyon	220	40.2	37.9			9.4	220	47.5	38	100
Cu	Down-Gradient - Middle Canyon	32.6	19.8	10.5			9.4	32.6	127	4	100
Cu	Down-Gradient - Lower Canyon	179	54.1	72.2			7.1	179	136000	4	100
Cu	Down-Gradient - Up + Mid + Low Canyon	220	41.5	42.5			7.1	220	50.1	42	100
Cu	Down-Gradient - Off-Site	12.9	10.6	1.62			7.4	12.9	12.1	8	100
Gamma	Reference - Verdure	15	15	0			15	15	15	2	100
Gamma	Reference - Verdure + Vega	15	15	0			15	15	15	2	100
Gamma	Down-Gradient - Upper Canyon	21	18.8	2.28			16	21	22.7	4	100
Gamma	Down-Gradient - Up + Mid Canyon	21	18.8	2.28			16	21	22.7	4	100
Gamma	Down-Gradient - Up + Mid + Low Canyon	21	18.8	2.28			16	21	22.7	4	100
Gamma	Down-Gradient - Off-Site	12	11.5	.5			11	12	13.6	2	100
Mn	Reference - Verdure	4390	948	1270			318	4390	1940	11	100
Mn	Reference - Verdure + Vega	4390	906	1220			318	4390	1640	12	100
Mn	Down-Gradient - Upper Canyon	1200	480	215			150	1200	559	34	100
Mn	Down-Gradient - Up + Mid Canyon	1220	498	240			150	1220	577	38	100
Mn	Down-Gradient - Middle Canyon	1220	653	358			346	1220	3050	4	100
Mn	Down-Gradient - Lower Canyon	529	411	114			273	529	734	4	100
Mn	Down-Gradient - Up + Mid + Low Canyon	1220	490	232			150	1220	560	42	100
Mn	Down-Gradient - Off-Site	486	388	64			269	486	445	8	100
Mo	Reference - Verdure	1.4	.975	.325	2.6	2.6	.46	1.4	1.27	11	72.7
Mo	Reference - Verdure + Vega	1.4	1	.324	2.6	2.6	.46	1.4	1.28	12	66.7
Mo	Down-Gradient - Upper Canyon	3.2	1.47	.558	2.6	2.6	.62	3.2	1.63	34	47.1

Upper Canyon = Upper Montezuma Creek; Lower Canyon = Lower Montezuma Creek; Middle Canyon = Middle Montezuma Creek
[a]Metals are reported in mg/Kg and radiological data are reported in pCi/g.

Sediments Statistics[a]

Analyte	Position	Maximum	Normal Average	Normal Stand	MinDetLimit	MaxDetLimit	MinDetected	MaxDetected	Lognormal UCL	N	Det Freq
Mo	Down-Gradient - Up + Mid Canyon	3.5	1.5	.715	.47	2.6	.62	3.5	1.82	38	47.4
Mo	Down-Gradient - Middle Canyon	3.5	1.7	1.47	.47	.55	2.8	3.5	7960	4	50
Mo	Down-Gradient - Lower Canyon	1.3	1.3	0	2.6	2.6			1.3	4	0
Mo	Down-Gradient - Up + Mid + Low Canyon	3.5	1.48	.682	.47	2.6	.62	3.5	1.75	42	42.9
Mo	Down-Gradient - Off-Site	.65	.286	.15			.16	.65	.428	8	100
NO3+NO2-N	Reference - Verdure	1.2	.689	.278			.22	1.2	1	11	100
NO3+NO2-N	Reference - Verdure + Vega	1.2	.723	.289			.22	1.2	1.03	12	100
NO3+NO2-N	Down-Gradient - Upper Canyon	4	.822	.699			.25	4	.974	29	100
NO3+NO2-N	Down-Gradient - Up + Mid Canyon	4	.792	.686			.25	4	.935	31	100
NO3+NO2-N	Down-Gradient - Middle Canyon	.42	.35	.07			.28	.42	1.13	2	100
NO3+NO2-N	Down-Gradient - Lower Canyon	.51	.465	.0572			.37	.51	.573	4	100
NO3+NO2-N	Down-Gradient - Up + Mid + Low Canyon	4	.754	.654			.25	4	.869	35	100
NO3+NO2-N	Down-Gradient - Off-Site	1.1	.789	.187			.48	1.1	.999	7	100
Pb	Reference - Verdure	29.1	15.7	5.66			11.6	29.1	20.2	8	100
Pb	Reference - Verdure + Vega	29.1	15.7	5.66			11.6	29.1	20.2	8	100
Pb	Down-Gradient - Upper Canyon	22.7	14.5	3.21			10.4	22.7	16	16	100
Pb	Down-Gradient - Up + Mid Canyon	22.7	14.1	3.63			7.3	22.7	15.8	20	100
Pb	Down-Gradient - Middle Canyon	19.9	12.5	4.63			7.3	19.9	27.8	4	100
Pb	Down-Gradient - Up + Mid + Low Canyon	22.7	14.1	3.63			7.3	22.7	15.8	20	100
Pb	Down-Gradient - Off-Site	22.4	14.6	4.69			8.4	22.4	19.4	8	100
Pb210	Reference - Verdure	3.1	2.23	.819	2	2	1.9	3.1	3.15	11	72.7
Pb210	Reference - Verdure + Vega	3.1	2.13	.855	2	2	1.9	3.1	3	12	66.7
Pb210	Down-Gradient - Upper Canyon	50.6	9.05	10.3	2	2	2.4	50.6	12.8	34	91.2
Pb210	Down-Gradient - Up + Mid Canyon	50.6	8.61	9.83	2	2	2.4	50.6	11.5	38	92.1
Pb210	Down-Gradient - Middle Canyon	6.7	4.85	1.8			2.9	6.7	12.2	4	100
Pb210	Down-Gradient - Lower Canyon	20.7	6.35	8.31	2	2	2.7	20.7	17800	4	50
Pb210	Down-Gradient - Up + Mid + Low Canyon	50.6	8.39	9.72	2	2	2.4	50.6	11.7	42	88.1
Pb210	Down-Gradient - Off-Site	3.8	2.94	.495			2.3	3.8	3.35	8	100
Ra226	Reference - Verdure	3	1.94	.623			1.3	3	2.39	11	100
Ra226	Reference - Verdure + Vega	3	1.93	.597			1.3	3	2.32	12	100
Ra226	Down-Gradient - Upper Canyon	55.1	10.5	10.9			3.7	55.1	12.3	35	100
Ra226	Down-Gradient - Up + Mid Canyon	55.1	9.92	10.5			2.5	55.1	11.6	39	100
Ra226	Down-Gradient - Middle Canyon	6.6	4.48	1.93			2.5	6.6	15.1	4	100
Ra226	Down-Gradient - Lower Canyon	30.6	9.93	12			1.8	30.6	4770	4	100
Ra226	Down-Gradient - Up + Mid + Low Canyon	55.1	9.92	10.6			1.8	55.1	11.8	43	100
Ra226	Down-Gradient - Off-Site	2	1.55	.304			1.1	2	1.82	8	100
SO4	Reference - Verdure	354	130	91			16.4	354	329	11	100
SO4	Reference - Verdure + Vega	391	152	113			16.4	391	389	12	100
SO4	Down-Gradient - Upper Canyon	2430	651	750			40.4	2430	1250	29	100
SO4	Down-Gradient - Up + Mid Canyon	2430	649	726			40.4	2430	1190	31	100
SO4	Down-Gradient - Middle Canyon	695	628	67			561	695	1000	2	100
SO4	Down-Gradient - Lower Canyon	109	96.1	13.7			73.2	109	124	4	100
SO4	Down-Gradient - Up + Mid + Low Canyon	2430	586	705			40.4	2430	1000	35	100
SO4	Down-Gradient - Off-Site	910	548	216			113	910	1280	7	100
Se	Reference - Verdure	5.3	2.27	1.7	.22	.22	.22	5.3	12.5	11	90.9
Se	Reference - Verdure + Vega	5.3	2.23	1.63	.22	.22	.22	5.3	9.73	12	91.7
Se	Down-Gradient - Upper Canyon	6.8	2.44	2.2	.2	1	.28	6.8	5.81	34	79.4
Se	Down-Gradient - Up + Mid Canyon	6.8	2.49	2.06	.2	1	.28	6.8	5.52	38	81.6
Se	Down-Gradient - Middle Canyon	6.3	2.91	2.46			.5	6.3	2410	4	100
Se	Down-Gradient - Lower Canyon	3.6	1.43	1.36	.2	1	1.5	3.6	20500	4	50

Upper Canyon = Upper Montezuma Creek; Lower Canyon = Lower Montezuma Creek; Middle Canyon = Middle Montezuma Creek

[a] Metals are reported in mg/Kg and radiological data are reported in pCi/g.

Sediment Statistics[a]

Analyte	Position	Maximum	Normal Average	Normal Stand	MinDetLimit	MaxDetLimit	MinDetected	MaxDetected	Lognormal UCL	N	Det Freq
Se	Down-Gradient - Up + Mid + Low Canyon	6.8	2.39	2.03	.2	1	.28	6.8	5.23	42	78.6
Se	Down-Gradient - Off-Site	2.5	1.81	.686	1.3	1.8	1.4	2.5	2.96	8	75
Th230	Reference - Verdure	2.1	1.28	.754	.15	.15	1.4	2.1	13.4	11	72.7
Th230	Reference - Verdure + Vega	2.1	1.29	.725	.15	.15	1.4	2.1	10.2	12	75
Th230	Down-Gradient - Upper Canyon	56.4	11.6	11.1			3.8	56.4	14	34	100
Th230	Down-Gradient - Up + Mid Canyon	56.4	10.9	10.7			2.3	56.4	13.1	38	100
Th230	Down-Gradient - Middle Canyon	7.2	4.63	2.24			2.3	7.2	21.7	4	100
Th230	Down-Gradient - Lower Canyon	24.7	7.75	9.81			1.2	24.7	7290	4	100
Th230	Down-Gradient - Up + Mid + Low Canyon	56.4	10.6	10.7			1.2	56.4	13.4	42	100
Th230	Down-Gradient - Off-Site	1.9	1.69	.105			1.6	1.9	1.77	8	100
U	Reference - Verdure	4.2	3.88	.244			3.4	4.2	4.07	8	100
U	Reference - Verdure + Vega	4.2	3.88	.244			3.4	4.2	4.07	8	100
U	Down-Gradient - Upper Canyon	54.3	23.7	11.2			9.6	54.3	30.1	16	100
U	Down-Gradient - Up + Mid Canyon	54.3	22.9	11.8			6.2	54.3	30.6	20	100
U	Down-Gradient - Middle Canyon	35.2	19.7	13.2			6.2	35.2	645	4	100
U	Down-Gradient - Up + Mid + Low Canyon	54.3	22.9	11.8			6.2	54.3	30.6	20	100
U	Down-Gradient - Off-Site	6	5.21	.491			4.5	6	5.59	8	100
U234	Reference - Verdure	1.5	1.17	.382	.07	.07	1	1.5	4.96	11	90.9
U234	Reference - Verdure + Vega	1.6	1.2	.385	.07	.07	1	1.6	4.34	12	91.7
U234	Down-Gradient - Upper Canyon	19.3	6.9	3.95			2.6	19.3	8.31	32	100
U234	Down-Gradient - Up + Mid Canyon	19.3	6.88	4.02			2	19.3	8.37	36	100
U234	Down-Gradient - Middle Canyon	12	6.68	4.52			2	12	238	4	100
U234	Down-Gradient - Lower Canyon	6.7	3.77	2.09			.96	6.7	64.8	4	100
U234	Down-Gradient - Up + Mid + Low Canyon	19.3	6.57	3.98			.96	19.3	8.14	40	100
U234	Down-Gradient - Off-Site	2.2	1.8	.18			1.6	2.2	1.94	8	100
U235	Reference - Verdure	.1	.0609	.0256	.07	.2			.0804	11	0
U235	Reference - Verdure + Vega	.1	.0642	.0268	.07	.2			.0844	12	0
U235	Down-Gradient - Upper Canyon	.97	.292	.236	.06	.2	.2	.97	.462	32	56.3
U235	Down-Gradient - Up + Mid Canyon	.97	.3	.244	.06	.2	.11	.97	.458	36	61.1
U235	Down-Gradient - Middle Canyon	.83	.368	.293			.11	.83	17.2	4	100
U235	Down-Gradient - Lower Canyon	.26	.14	.0693	.2	.2	.26	.26	.379	4	25
U235	Down-Gradient - Up + Mid + Low Canyon	.97	.284	.238	.06	.2	.11	.97	.41	40	57.5
U235	Down-Gradient - Off-Site	.055	.0394	.00768	.06	.11			.0458	8	0
U238	Reference - Verdure	1.5	1.33	.135			1.1	1.5	1.41	11	100
U238	Reference - Verdure + Vega	1.5	1.32	.134			1.1	1.5	1.4	12	100
U238	Down-Gradient - Upper Canyon	19	7.13	3.97			2.8	19	8.53	32	100
U238	Down-Gradient - Up + Mid Canyon	19	7.06	4.02			2.1	19	8.54	36	100
U238	Down-Gradient - Middle Canyon	11.6	6.48	4.32			2.1	11.6	192	4	100
U238	Down-Gradient - Lower Canyon	7.2	3.98	2.23			1	7.2	70.6	4	100
U238	Down-Gradient - Up + Mid + Low Canyon	19	6.75	3.99			1	19	8.33	40	100
U238	Down-Gradient - Off-Site	2.3	1.91	.237			1.6	2.3	2.1	8	100
V	Reference - Verdure	29.1	20.3	4.48			14.7	29.1	23.1	11	100
V	Reference - Verdure + Vega	40	22	6.92			14.7	40	26	12	100
V	Down-Gradient - Upper Canyon	167	79.2	28.4			27.7	167	88.7	34	100
V	Down-Gradient - Up + Mid Canyon	167	77.2	29.7			23.2	167	88.3	38	100
V	Down-Gradient - Middle Canyon	97.7	60	34			23.2	97.7	585	4	100
V	Down-Gradient - Lower Canyon	166	67	58.9			17.5	166	3020	4	100
V	Down-Gradient - Up + Mid + Low Canyon	167	76.2	33.7			17.5	167	89.4	42	100
V	Down-Gradient - Off-Site	22.7	17.6	3.38			11.5	22.7	20.8	8	100

Upper Canyon = Upper Montezuma Creek; Lower Canyon = Lower Montezuma Creek; Middle Canyon = Middle Montezuma Creek
[a]Metals are reported in mg/Kg and radiological data are reported in pCi/g.

Sediments Statistics[a]

Analyte	Position	Maximum	Normal Average	Normal Stand	MinDetLimit	MaxDetLimit	MinDetected	MaxDetected	Lognormal UCL	N	Det Freq
Zn	Reference - Verdure	63.3	44.9	8.31			35.9	63.3	49.9	11	100
Zn	Reference - Verdure + Vega	63.3	46.1	8.92			35.9	63.3	51.3	12	100
Zn	Down-Gradient - Upper Canyon	87.8	60.9	9.86			37.1	87.8	64.1	34	100
Zn	Down-Gradient - Up + Mid Canyon	87.8	59	11.8			28.9	87.8	63.1	38	100
Zn	Down-Gradient - Middle Canyon	58.7	42	13.2			28.9	58.7	82.3	4	100
Zn	Down-Gradient - Lower Canyon	69.5	41.1	17.7			23.8	69.5	110	4	100
Zn	Down-Gradient - Up + Mid + Low Canyon	87.8	57.3	13.5			23.8	87.8	62.2	42	100
Zn	Down-Gradient - Off-Site	41.1	33.5	5.39			22.9	41.1	38.5	8	100

Upper Canyon = Upper Montezuma Creek; Lower Canyon = Lower Montezuma Creek; Middle Canyon = Middle Montezuma Creek
[a]Metals are reported in mg/Kg and radiological data are reported in pCi/g.