SITE OBSERVATIONAL WORK PLAN FOR THE UMTRA PROJECT SITE AT AMBROSIA LAKE, NEW MEXICO

February 1995

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AT AMBROSIA LAKE, NEW MEXICO**

February 1995

**Prepared for
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EXECUTIVE SUMMARY

Ground water compliance for the Uranium Mill Tailings Remedial Action (UMTRA) Project sites, including the Ambrosia Lake, New Mexico, site, is governed by the *Uranium Mills Tailings Radiation Control Act* (42 USC §7901 *et seq.*) and the U.S. Environmental Protection Agency's Health and Environmental Protection Standards for Uranium and Thorium Mill Tailings (40 CFR Part 192; 60 FR 2854). The EPA standards describe specific conditions for which the U.S. Department of Energy (DOE) may apply for supplemental standards for contaminated ground water rather than meeting background levels or numerical standards.

To achieve compliance with Subpart A of the EPA standards the residual radioactive materials are currently being consolidated on the site by the DOE in a disposal cell, isolating them from direct human or ecological contact and further dispersion into the environment. Completion of the disposal cell is scheduled for early 1995. An environmental assessment (DOE, 1987a) and a Finding of No Significant Impact (FONSI) (DOE, 1987b) were completed in 1987. Concurrence with the UMTRA Surface Project Ambrosia Lake remedial action plan (RAP) (DOE, 1991) was granted by the U.S. Nuclear Regulatory Commission (NRC) and state of New Mexico in 1990 (NRC, 1990). The DOE deferred compliance with Subpart B of the EPA standards in the Surface Project RAP. This site observational work plan (SOWP) is the first document to address ground water compliance under Subpart B at the Ambrosia Lake site.

The Ambrosia Lake UMTRA Project site is within the Grants Mineral Belt and was one of numerous uranium mills supplied by many local mines. Ground water contamination at the site occurred as a result of uranium mill operations. During the period from 1958 to 1963, approximately 3.0 million tons (2.7 million tonnes) of uranium-bearing ore were processed by crushing and grinding, and uranium was removed through a chemical process (DOE, 1991). Contamination of ground water resulted from discharge of waste water, infiltration of water through the tailings pile, hydraulic placement of mill tailings in nearby mines, and water pumped from mine shafts.

The uppermost aquifer at the Ambrosia Lake site is defined as the alluvium and Tres Hermanos-C Sandstones. Saturation of the aquifer was artificially created solely by discharge of mill process water and the extent of saturation is limited in both surface area and vertical extent.

The uppermost aquifer does not represent a ground water resource because of the limited extent of saturation and the inability to consistently sustain a yield of 150 gallons (gal) per day (570 liters [L] per day) to wells, based on a February 1989 aquifer test on DOE Well 675 (DOE, 1991). As demonstrated in this document, and previously in the RAP (DOE, 1991), ground water within the uppermost aquifer meets the qualifications for supplemental standards, Class III ("limited use"), based on limited yield. The major sources of recharge, waste water disposal and infiltration, and water from mine pumping, no longer exist. Therefore, the unit is expected to return to its premilling and mining condition of little-to-no saturation, further eliminating the unit as a potential future ground water resource.

The potential for impacts to human health and the environment from contaminated ground water currently does not exist. No domestic or livestock wells accessing ground water from the uppermost aquifer have been identified within a 5 mile (mi) (8 kilometers [km]) radius from the site. Wells located further than 5 mi (8 km) from the site access ground water from deeper geologic units. Ground water does not discharge to the land surface and the nearest surface water is located approximately 1.5 mi (2.4 km) southwest of the site. Land use in the area is not expected to change in the future because of the poor quality of the range land, poor soils, and the limited surface or shallow ground water resources available in this semiarid region. Therefore, no current exposure pathways to humans, livestock, or wildlife exist, nor are any foreseen.

The proposed ground water compliance strategy under consideration for application at the Ambrosia Lake site is to perform no remediation, based on the application of supplemental standards because the ground water has "limited use" (40 CFR §192.21(g) (1994)) (60 FR 2854). "Limited use" means the ground water is not a current or potential source of drinking water because the quantity of water available is less than 150 gal (570 L) per day (40 CFR §192.11(e)) (60 FR 2854). The NRC and state of New Mexico concurred with application of supplemental standards for the UMTRA Surface Project in 1990. The Surface Project supplemental standards compliance strategy was substantiated by many of the arguments presented in this SOWP for the Ground Water Project. The Surface Project compliance strategy can logically be applied to the Ground Water Project at the Ambrosia Lake site.

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LIST OF ACRONYMS AND ABBREVIATIONS

<u>Acronym</u>	<u>Definition</u>
ACL	alternate concentration limit
AEC	Atomic Energy Commission
cm/s	centimeters per second
cm	centimeter
DOE	U.S. Department of Energy
EPA	U.S. Environmental Protection Agency
FONSI	Finding of No Significant Impact
ft	foot
ft/day	feet per day
gal	gallon
km	kilometer
L	liter
m	meter
MCL	maximum concentration limit
mg/L	milligrams per liter
mi	mile
MSL	mean sea level
NEPA	National Environmental Policy Act
NRC	U.S. Nuclear Regulatory Commission
PEIS	Programmatic Environmental Impact Statement
pCi/L	picocuries per liter
RAP	remedial action plan
RRM	residual radioactive material
SOWP	site observational work plan
SPEAR	Software Program for Environmental Analysis and Reporting
TAGR	Technical Approach to Ground Water Restoration
TER	Technical Evaluation Report
UMTRA	Uranium Mill Tailings Remedial Action
UMTRCA	Uranium Mill Tailings Radiation Control Act

1.0 INTRODUCTION

The "Site Observational Work Plan for Ground Water Investigation at Ambrosia Lake, New Mexico" is a response to requirements for ground water compliance established in the *Uranium Mill Tailings Radiation Control Act* (UMTRCA) (42 USC §7901 *et seq.* (1978)). This site observational work plan (SOWP) is the first ground water document of the Ambrosia Lake Uranium Mill Tailings Remedial Action (UMTRA) Project to address site-specific activities necessary to meet compliance with U.S. Environmental Protection Agency (EPA) ground water protection standards (60 FR 2854).

1.1 PURPOSE AND CONTENT

This SOWP, Revision Q, recommends an appropriate, site-specific ground water compliance strategy for the Ambrosia Lake site.

Section 2.0 describes the requirements for meeting the ground water protection standards at UMTRA Project sites. Section 3.0 presents a summary of the site's hydrogeological setting, describes the presence and distribution of contaminants in ground water resulting from the milling process, and describes and assesses the potential environmental and human health risks at the site. Section 4.0 presents and provides justifications for the recommended ground water compliance strategy at the Ambrosia Lake site.

1.2 GROUND WATER COMPLIANCE STRATEGY

The ground water compliance strategy recommended for the Ambrosia Lake site is to perform no remediation, based on the application of supplemental standards, because the ground water is classified as Class III ("limited use") ground water (40 CFR §192.21(g) (1994)) (60 FR 2854). "Limited use" means ground water that is not a current or potential source of drinking water because the quantity of water available is less than 150 gallons (gal) (570 liters [L]) per day (40 CFR §192.11(e)) (60 FR 2854).

1.3 PROGRAMMATIC DOCUMENTS

Programmatic documents that provide guidance for this SOWP include the U.S. Department of Energy (DOE) *UMTRA Ground Water Program Plan* (DOE, 1992a), *Programmatic Environmental Impact Statement for the Uranium Mill Tailings Remedial Action Ground Water Project* (PEIS) (DOE, 1994) and *Technical Approach to Ground Water Restoration* (TAGR) (DOE, 1993a). The *UMTRA Ground Water Program Plan* states the mission needs and objectives for the UMTRA Ground Water Compliance Program and provides an overall technical and management approach for conducting the program. The PEIS provides an objective programmatic decision-making framework for conducting the UMTRA Ground Water Project, assesses the potential programmatic impacts of conducting the project, provides a method for determining the site-specific ground water compliance strategies, and provides data and information that can

be used to prepare site-specific National Environmental Policy Act (NEPA) (42 USC §4321 *et seq.* (1970)) compliance documents more efficiently. A record of decision on the PEIS framework is anticipated in 1995. The preferred alternative from the PEIS for conducting the UMTRA Ground Water Project will be published as the record of decision in the *Federal Register*. The TAGR provides technical guidance for conducting the ground water program.

1.4 RELATIONSHIP TO SITE-SPECIFIC DOCUMENTS

The surface remedial action plan (RAP) provides site characterization information (DOE, 1991). This information is updated for the SOWP to formulate the site conceptual model. If a ground water compliance strategy requiring remedial action activities is selected for this site, a ground water RAP or surface RAP modification will be prepared.

Potential risks are considered in this SOWP to ensure that the proposed compliance strategy is protective of human health and the environment. The environmental impacts from the recommended ground water compliance strategy presented in this SOWP will be assessed in a separate, appropriate, site-specific document that will meet the requirements of the NEPA (42 USC §4321 *et seq.* (1970)). The site-specific NEPA document will be prepared by the DOE and be based on the framework in the approved PEIS.

2.0 REGULATORY FRAMEWORK

This SOWP proposes a ground water compliance strategy for the Ambrosia site to achieve compliance with the EPA ground water protection standards applicable to Title I UMTRA Project sites. This section identifies the relationship of the UMTRCA (42 USC §7901 *et seq.*), the EPA ground water protection standards (40 CFR Part 192; 60 FR 2854), the cooperative agreements, and the NEPA to the UMTRA Ground Water Project.

2.1 URANIUM MILL TAILINGS RADIATION CONTROL ACT

The U.S. Congress passed the UMTRCA (42 USC §7901 *et seq.*) in 1978 in response to public concerns about the potential health hazards from exposure to uranium mill tailings over long periods of time. The UMTRCA authorized the DOE to stabilize, dispose of, and control uranium mill tailings and other residual radioactive material (RRM) at uranium mill processing sites and associated vicinity properties.

The UMTRCA has three titles. The UMTRA Project has responsibility for administering only Title I of UMTRCA. Title I of the Act designates 24 inactive processing sites that will undergo remediation; directs the EPA to promulgate standards; mandates remedial action in accordance with standards prescribed by the EPA; directs remedial action to be selected and performed with the concurrence of the U.S. Nuclear Regulatory Commission (NRC) and in consultation with the status and Indian tribes; directs the NRC to license the disposal sites for long-term disposal; and directs the DOE to enter into cooperative agreements with the affected states and Indian tribes.

In 1988, Congress passed the *Uranium Mill Tailings Remedial Action Amendments Act* (Amendments Act) (42 USC §7922 *et seq.*) authorizing the DOE to extend without limitation the time needed to complete ground water restoration activities at the processing sites.

2.1.1 EPA ground water standards

The UMTRCA requires that the EPA promulgate standards for protecting public health, safety, and the environment from radiological and nonradiological contaminants associated with processing uranium and the resulting RRM. On January 5, 1983, the EPA promulgated final standards (40 CFR Part 192) for the disposal and cleanup of RRM. On September 3, 1985, the Tenth Circuit Court of Appeals set aside the ground water provisions of the regulations at 40 CFR §192.20(a)(2) and (3) and remanded them to the EPA. The standards were revised and a final rule was published on January 11, 1995 (60 FR 2854).

The EPA ground water protection standards address two ground water contamination scenarios: the first addresses future ground water contamination that may occur from tailings piles after disposal (completion of surface remedial action); the second addresses the cleanup of residual contamination that

occurred at the processing sites before disposal of the tailings piles (60 FR 2854). Protection of the ground water at the disposal sites is being addressed in the UMTRA Surface Project. The UMTRA Ground Water Project addresses the contamination that occurred at the processing sites and is regulated by Subparts B and C of the ground water protection standards. The maximum concentration limits of constituents for ground water protection are presented in Table 2.1 (60 FR 2854).

Subpart B

Subpart B ("Standards for Cleanup of Land and Buildings Contaminated with Residual Radioactive Materials from Inactive Uranium Processing Sites") requires that remedial action at processing sites be conducted to ensure that the amounts of RRM in ground water meet one of the three following standards presented in 60 FR 2854:

- Background levels: concentrations of constituents in nearby ground water unaffected by processing activities.
- Maximum concentration limits (MCL): the EPA's maximum concentration limits of certain constituents in ground water, as proposed for the UMTRA Project.
- Alternate concentration limits (ACL): an alternate concentration limit for a constituent that will not pose a substantial present or potential hazard to human health or the environment as long as the alternate concentration limit is not exceeded.

Subpart C

Under certain specific conditions, the DOE may apply supplemental standards, as described in Subpart C, in lieu of the standards of Subparts A or B (60 FR 2854) (background levels, MCLs, or ACLs). The supplemental standard applicable at the Ambrosia Lake site for the surface remedial action program, and discussed for further analysis in this SOWP, may be applied because the ground water is classified as having "limited use" (40 CFR §192.21(g) (1994)) (60 FR 2854). Subpart B of the standards defines "limited use" as ground water that 1) is not a current or potential source of drinking water because the concentration of total dissolved solids is in excess of 10,000 milligrams per liter (mg/L); or, 2) because widespread, ambient contamination not due to activities involving RRM from a designated processing site exists, that cannot be cleaned up using treatment methods reasonably employed in public water-supply systems; or, 3) because the quantity of water available is less than 150 gal (570 L) per day (40 CFR §192.11(e)) (60 FR 2854).

When supplemental standards apply, implementing agencies shall apply any remedial actions for the restoration of ground water contaminated by RRM that are required to assure, at a minimum, protection of human health and the

Table 2.1 Maximum concentration of constituents for ground water protection

Constituent	Maximum concentration ^a
Arsenic	0.05
Barium	1
Cadmium	0.01
Chromium	0.05
Lead	0.05
Mercury	0.002
Selenium	0.01
Silver	0.05
Nitrate (as N)	10
Molybdenum	0.1
Combined radium-226 and radium-228	5 pCi/L
Combined uranium-234 and uranium-238 ^b	30 pCi/L
Gross alpha-particle activity (excluding radon and uranium)	15 pCi/L
Endrin (1,2,3,4,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-1,4-endo,endo-5,8-dimethanonaphthalene)	0.0002
Lindane (1,2,3,4,5,6-hexachlorocyclohexane, gamma isomer)	0.004
Methoxychlor (1,1,1-trichloro-2,2'-bis(p-methoxyphenylethane))	0.1
Toxaphene (C ₁₀ H ₁₀ Cl ₆ , technical chlorinated camphene, 67-69 percent chlorine)	0.005
2,4-D (2,4-dichlorophenoxyacetic acid)	0.1
2,4,5-TP Silvex (2,4,5-trichlorophenoxypropionic acid)	0.01

Source: (60 FR 2854).

^aMilligrams per liter, unless stated otherwise.

^bWhere secular equilibrium obtains, this criterion will be satisfied by a concentration of 0.044 mg/L. For conditions of other than secular equilibrium, a corresponding value may be derived and applied, based on the measured site-specific ratio of the two isotopes of uranium.

pCi/L - picocuries per liter.

environment. In addition, when limited use ground water applies, supplemental standards shall ensure that current and reasonably projected uses of the affected ground water are preserved (60 FR 2854).

Subpart B also provides for selecting natural flushing as a means to meet the proposed standards. Natural flushing means allowing natural ground water processes to reduce the contamination in ground water to the standards (background levels, MCLs, or ACLs) within 100 years. Institutional controls that protect human health (measures that restrict access to contamination and satisfy beneficial uses of ground water), and an adequate monitoring program must be established and maintained during the period of natural flushing. Ground water also must not be currently, or be projected to become, a source of drinking water during the period of natural flushing (40 CFR §192.12(c)(4)) (60 FR 2854).

Subpart C (Implementation) provides guidance for implementing methods and procedures to provide reasonable assurance that the provisions of Subpart B are satisfied. Subpart C requires the following: that the conditions of Subpart B be met on a site-specific basis using information gathered from site characterization and monitoring; and that the compliance strategy plan or RAP contain the proposed compliance strategy, a demonstration of effectiveness, and a characterization and monitoring program, as appropriate to meet the conditions of Subpart B.

2.1.2 Cooperative agreements

The UMTRCA authorizes the DOE to enter into cooperative agreements with affected states (Section 103) and Indian tribes (Section 105) for the purpose of performing remedial action at each designated site. No Indian tribes are affected by the activities at the Ambrosia Lake site. The DOE and state of New Mexico are in the process of amending the Surface Project Cooperative Agreement to include the Ground Water Project (Cooperative Agreement Number DE-FC04-85AL20533, dated September 11, 1985, as amended) (DOE, 1985).

2.2 NATIONAL ENVIRONMENTAL POLICY ACT

Implementation of the UMTRCA represents a major federal action subject to the requirements of the NEPA (42 USC §4321 *et seq.* (1970)). The Council on Environmental Quality's regulations that implement the NEPA are codified in 40 CFR Parts 1500-1508 (1994) and require that each federal agency develop its own implementing procedures (40 CFR §1507.3). The DOE NEPA regulations are contained in 10 CFR Part 1021 (1994), "National Environmental Policy Act; Implementing Procedures." DOE guidance is provided in *Recommendations for the Preparation of Environmental Assessments and Environmental Impact Statements* (DOE, 1993b).

Pursuant to the NEPA, the DOE drafted a PEIS in 1994 to analyze the potential impacts of implementing the programmatic alternatives proposed for conducting the Ground Water Project. The preferred alternative for conducting the UMTRA Ground Water Project will be recommended by the DOE following a public participation effort, and the record of decision will be published in the *Federal Register*. All subsequent actions on the UMTRA Ground Water Project must comply with this record of decision, anticipated in 1995.

The Ambrosia Lake site-specific NEPA documentation will be prepared by the DOE and be based on the framework in the approved PEIS that has been published as the record of decision in the *Federal Register*. The site-specific NEPA document will analyze the potential impacts of the strategy of no remediation, based on the application of supplemental standards, as the recommended site-specific ground water compliance strategy.

3.0 SITE CONDITIONS

The appropriate ground water compliance strategy can be recommended only after the evaluation of site location, surrounding area land use, site history, and hydrogeologic conditions. Evaluation of site location, surrounding area land use, and hydrogeologic conditions assists in the evaluation of potential pathways for risks to human health and the environment. The site history highlights processing operations that have caused contamination, and hydrogeologic conditions describe the mechanisms that control contaminant distribution.

3.1 SITE BACKGROUND

Location

The Ambrosia Lake site is located in McKinley County, New Mexico, about 25 miles (mi) (40 kilometers [km]) north of Grants, New Mexico, and 1 mi (1.6 km) east of New Mexico Highway 509 (Figure 3.1). The town nearest to the site is San Mateo, about 10 mi (16 km) to the southeast (Figure 3.2).

The site is within the Ambrosia Lake Mining District, near the center of the Grants Mineral Belt. Decommissioned uranium mills, abandoned underground mines, mine shafts and vents, ore piles, tailings piles, and heap leach piles are in proximity to the site. The former mill, former main holding ponds, and tailings pile were in Section 28, and two former small holding ponds were in Section 33, Township 14 North, Range 9 West. A former heap leaching operation associated with the Ambrosia Lake mill was located in Section 27 (Figure 3.3) (USGS, 1980). The approximate elevation of the site is 7,000 feet (ft) (2,100 meters [m]) above sea level.

Surrounding land use

McKinley County is rural and sparsely populated. The town closest to the site is San Mateo, about 10 mi (16 km) to the southeast. The largest city in the area is Grants (in adjacent Cibola County), about 25 mi (40 km) south of the site, which had a population of 8626 in 1990 (DOC, 1990).

The sites of former uranium mines and mills, and a limited amount of grazing constitute current land use surrounding the site. The "Trailer Park" shown on the USGS topographic map (Figure 3.3) (USGS, 1980) is within about 1 mi (1.6 km) of the site, but was abandoned when the demand for uranium declined during the late 1970s. More than one dozen former uranium mines are within a 5-mi (8-km) radius of the site (Figure 3.2), and the closest residence is approximately 5 mi (8 km) south of the site. Not shown on the figure but present throughout the area are numerous abandoned mine spoil piles, ore piles, tailings piles, and heap leach piles resulting from former mining and milling

FIGURE 3.1
LOCATION OF AMBROSIA LAKE UMTA SITE

LEGEND

- DOMESTIC OR STOCK WELL
- X UNDERGROUND MINE
- EPHEMERAL STREAM

1 0 1 2 3 MILES

1 0 1 2 3 4 5 KILOMETERS

MODIFIED FROM DOE, 1991.

FIGURE 3.2
AMBROSIA LAKE UMTRA SITE AND SURROUNDING AREA

operations (Figure 3.2). Piles associated with the Ambrosia Lake UMTRA Project site have been cleaned up and placed in the disposal cell.

Many of the surrounding uranium mills are undergoing remediation. The former mill closest to the site is Quivira Mining Company, which is about 1 mi (1.6 km) to the southwest of the Ambrosia Lake site.

Surrounding water use

Ground water use in the Ambrosia Lake area was dominated by the uranium mining and milling industry, but has declined drastically as a result of the abandonment of mining and milling. The only surrounding ground water uses are for cleanup activities at nearby former mill sites, and for domestic and ranch supplies. The nearest surface water is located approximately 1.5 mi (2.4 km) southwest of the Ambrosia Lake site.

Water supplies associated with mill cleanup activities are from wells completed in the uranium ore zone (the Westwater Canyon Member of the Morrison Formation) and deeper hydrogeologic units. Domestic and stock wells are also completed in the ore zone or deeper units and obtain water at depths from 300 to greater than 800 ft (100 to greater than 240 m). No domestic or livestock wells are completed in any of the shallower zones (alluvium and Tres Hermanos Sandstones) within at least a 5-mi (8-km) radius of the site, with the exception of monitor wells installed by the DOE (DOE, 1991). The nearest municipality operating a public water supply is the town of San Mateo, 10 mi (16 km) southeast of the Ambrosia Lake site. The water for San Mateo is derived from the Point Lookout Sandstone (Brod, 1979), which is stratigraphically higher than, and not connected with, any of the geologic units at the Ambrosia Lake site.

Contaminant sources

Contaminant sources described in this section result from two factors: 1) surrounding land uses and 2) the UMTRA Project site. These two factors are significant because of the location of the Ambrosia Lake UMTRA site. A large number of contaminant sources are within the vicinity.

The Ambrosia Lake UMTRA Project site has contributed relatively little contamination within an area that experienced intensive uranium mining and milling activities from the mid-1950s through the late 1970s. Chemical processes for uranium concentration within the area were similar to those employed at the UMTRA Project site; therefore, contaminants from the surrounding mills are similar. For example, the former Quivira Mining Company mill, adjacent to the UMTRA Project site, has produced more than ten times the tailings produced by the UMTRA site, representing a volume of tailings greater than all of the 24 UMTRA Project sites combined. Because similar processing techniques were employed, it is logical to assume that the Quivira Mining Company mill produced at least ten times the volume of waste water as the

UMTRA Project mill produced. It is unknown how much additional ground water contamination has been produced from the other surrounding mills.

As stated earlier, the area surrounding the site has numerous abandoned mines and vent shafts, and associated spoil piles, ore piles, tailings piles, and heap leach piles. It is important to mention these conditions again, because of their net contribution to widespread ground water contamination. Many of the mines and vent shafts were legally backfilled with RRM, which contain contaminants that can leach into the water-bearing zones adjacent to the mines and vent shafts. Additionally, the mines and vent shafts provide interconnection between water-bearing zones, allowing the mixing of contaminated and noncontaminated ground water. If the piles are located over recharge areas for deeper aquifers, then the contaminants would not be limited to the uppermost aquifer.

The Ambrosia Lake UMTRA site was a former uranium mill that operated as a mechanical and chemical uranium-concentrating plant from 1958 to 1963. It operated as an ion-exchange plant for uranium concentration from 1971 to 1983. The sources of water for the ion-exchange plant were three mines (the Ann Lee, Sandstone, and Section 27 mines), as well as return water from heap leach piles in Section 27.

Site contamination was caused primarily by the discharge of waste water and tailings from uranium milling during the 1958 to 1963 period. The ion-exchange and heap leach operations contributed little additional contamination when compared to the uranium mill process.

Approximately 3.0 million tons (2.7 million tonnes) of uranium-bearing ore were processed during the period of 1958 to 1963 by crushing and grinding, and then by removing the uranium through a chemical process (DOE, 1991). The operations resulted in the production of a relatively small percentage of uranium concentrate and a relatively large percentage of wastes, consisting of waste water and mill tailings. Contamination of ground water resulted from discharge of waste water, hydraulic placement of mill tailings, and infiltration of water discharged at the surface.

Mill tailings are the fine-grained materials (sand, silt, and clay) resulting from the uranium removal process. Because the uranium represented only a small portion of the ore, the volume of tailings is approximately equal to the amount of ore processed (i.e. approximately 3 million tons [2.7 million tonnes] of tailings were produced) (DOE, 1991). The tailings were mixed with water from the ore zone (the Westwater Canyon Member of the Morrison Formation) and with waste water from the chemical concentration process and this mixture was piped to the tailings pile.

Waste water was produced from the former mill at a rate of 1 to 5 tons (0.9 to 4.5 tonnes) for every ton of ore processed (Merritt, 1971). Therefore, from 3.0 to 15 million tons (2.7 to 13.6 million tonnes) of waste water were produced during the 5 years of ore milling. This is equivalent to between 7.2×10^8 to

3.6×10^9 gal (2.7×10^9 and 1.4×10^{10} L) or 2200 to 11,000 acre-feet of waste water. Waste water was disposed of with the tailings and also collected in two main holding ponds (formerly near the southeast corner of the tailings pile in Section 28); some was discharged to a canal which led to a holding pond called the Voght Tank, previously located in Section 34 (Figure 3.3). Some waste water was also discharged to two holding ponds near the southeast corner of the tailings pile in Section 33 (Figure 3.3).

Approximately 400,000 tons (360,000 tonnes) of the total 3 million tons of (2.7 million tonnes) tailings were piped into the Ann Lee Mine using water from the mines and possibly process waste water (DOE, 1991). This was a legal and common practice in the area to protect against subsidence. The Ann Lee Mine was the only mine backfilled with tailings from the Ambrosia Lake site; however, this practice was undertaken at numerous other mines and contributes to widespread ground water contamination in all geologic units from the ore zone to the surface. Section 3.3, conceptual site model, provides additional detail regarding site and surrounding area geology and water quality.

The carbonate process for uranium concentration was used at the Ambrosia Lake site (Merritt, 1971). Process materials contributing to site contamination were uranium ore, caustic soda, soda ash, sulfate salts, and ammonia. Major indicators of contamination resulting from the Ambrosia Lake site process materials and byproducts were uranium, nitrate, sulfate, and sodium.

The ion-exchange process contributed little if any additional contamination to the site. Water that was passed through the ion-exchange columns was returned to its source (the mines), and not discharged to the land surface. Water applied to the heap leach piles was collected with a drain system for recovery of uranium using the ion-exchange columns.

Site status

The Phillips Petroleum Company constructed, owned, and operated the former mill from 1957 until 1963, when United Nuclear Corporation purchased the operation. Uranium concentrate was sold to the Atomic Energy Commission (AEC) throughout the mill's operational history. The state of New Mexico owns the site at present; ownership will be transferred to the DOE upon certification of completion of the surface remedial actions.

As part of the UMTRA project surface remediation activities, RRM is being consolidated on the site in a disposal cell that is scheduled for completion in early 1995. Contents of the cell include the tailings pile, former mill buildings, wind blown tailings, the heap leach pads (Section 27), the former main holding ponds (Section 28), and materials associated with the two former ponds near the southeast portion of the disposal cell (Section 33), the canal, and Voght Tank (Section 34) (Figure 3.3). An environmental assessment (DOE, 1987a) and a Finding of No Significant Impact (FONSI) (DOE, 1987b) were completed in

1987. The RAP for surface remediation activities was concurred with by the NRC and state of New Mexico in 1990 (NRC, 1990).

Tailings removal from the Ann Lee or other surrounding mines is technically unfeasible and their removal would pose a threat to personnel. The tailings within these underground mines are currently isolated from contact with human or environmental receptors. The tailings backfilled into the Ann Lee Mine, therefore, are anticipated to qualify for supplemental standards under the surface remediation project and will remain in place. A final application for supplemental surface remediation standards for the backfilled tailings in the Ann Lee Mine will be submitted by the DOE Remedial Action Contractor. Ambrosia Lake site tailings in the Ann Lee Mine have little additional adverse effect on area ground water quality because of the presence of tailings in numerous surrounding mines and the presence of uranium in the ore zone.

In their 1990 technical evaluation of the RAP, the NRC concurred with the finding that the uppermost aquifer at the site (the alluvium, weathered Mancos Shale, and Tres Hermanos-C Sandstones) is incapable of a sustained well yield of 150 gallons per day. Therefore ground water within the uppermost aquifer meets the criteria for Class III, supplemental standards, based on limited use (NRC, 1990). As described in Section 3.3, conceptual site model, the factors controlling well yield will not change over time, with the exception of the saturated thickness of the aquifer, which will decrease. Potential well yield will also decline as the saturated thickness decreases. Therefore, the "limited use" aquifer status should also apply to the ground water portion of this project.

3.2 SOURCES OF DATA

Information presented in this SOWP includes observations from site visits and review of data and documentation available at the UMTRA Project Document Control Center in Albuquerque, New Mexico.

Detailed descriptions of uranium concentration, mill byproducts, and process waste streams are provided in Merritt (1971). Site hydrogeologic conditions are described in detail in the RAP (DOE, 1991) and the NRC's final technical evaluation report (TER) (NRC, 1990). Additional site-specific information was obtained through a review of geologic and hydrologic reports cited in the RAP, an examination of monitor well completion reports, and ground water chemistry data contained in the DOE's Software Program for Environmental Analysis and Reporting (SPEAR) Program System (DOE, 1992b). The data contained in the SPEAR Program System are the results from periodic water quality monitoring at the site and encompass the years from 1980 to 1994.

3.3 CONCEPTUAL SITE MODEL

The following paragraphs present a summary of the site conceptual model. Additional details regarding the site conceptual model are in the subsections following this summary.

Surrounding land use was predominantly uranium mining and milling. Mining companies still own the land surrounding the site, but conventional mining and milling are no longer performed because of economic conditions. However, Quivira Mining Company has resumed old stope leach well injections and is recovering uranium by ion exchange. Low-density grazing is the current predominant land use.

The tailings in the Ann Lee Mine are isolated from direct contact to human and environmental receptors, and will remain in place. Ground water does not discharge at land surface; therefore a direct exposure pathway to contaminated ground water currently does not exist. No water supply wells are completed in the hydrogeologic zones with contamination attributable to the UMTRA Ambrosia Lake site, and water contaminated by the former uranium mill does not affect other ground water supplies in the area. Also, there are no nearby uses of surface water. Therefore, no current exposure pathways to humans, livestock, or wildlife exist.

As discussed previously, milling operations created a relatively large amount of waste water. Based on geochemical evaluation and the limited amount of natural recharge to the uppermost aquifer, saturation of the uppermost aquifer was created primarily by discharge of the mill waste water. The extent of saturation resulting from Ambrosia Lake site operations is therefore limited in both areal and vertical extent. The aquifer does not represent a ground water resource because of the inability to sustain a yield of 150 gal (570 L) per day to wells. Therefore, potential future exposure pathways to humans, livestock, or wildlife are also unlikely. Ground water within the uppermost aquifer meets the qualifications for supplemental standards, "limited use," based on limited yield (40 CFR §192.21(g)) (60 FR 2854). Because the potential for future exposure pathways to humans, livestock, or wildlife is unlikely, the proposed recommended ground water compliance strategy is no remediation based on the application for supplemental standards.

3.3.1 Hydrogeologic setting

Physiographic setting

The site lies within the Ambrosia Lake valley and west of San Mateo Mesa, a northwest trending ridge. The site is on a relatively flat area at an elevation of approximately 7000 ft (2100 m). San Mateo Mesa is at an elevation of about 8100 ft (2500 m).

The site is within the Arroyo del Puerto drainage basin, which slopes downward toward the southeast. The approximate elevation of the drainage channel nearest the site is about 6900 ft (2100 m). The streams in the area of the site and Ambrosia Lake are primarily ephemeral, containing water only after heavy rainfall. However, a portion of the Arroyo del Puerto approximately 1.5 mi (2.4 km) southwest of the site (Figure 3.3) appears to contain water for extended periods of time as a result of drainage from the Quivira Mining Company uranium mill site.

Geology

In descending order, geologic units of interest at the site are as follows (Brod and Stone, 1981):

1. Alluvium: alluvial and eolian deposits of clay, silt, sand, and gravel;
2. Mancos Shale: dark gray, calcareous marine shale containing four silty sandstone interbeds, known as the Tres Hermanos-C₁, -C₂, -B, and -A Sandstones;
3. Dakota Sandstone: fine- to medium-grained sandstone, probably representative of a marine shore zone; and
4. Morrison Formation: interbedded mudstones, siltstones, and sandstones that have been divided into three members, Brushy Basin Member (mudstones and sandstones that contain uranium ore in some areas), Westwater Canyon Member (sandstones and mudstones that contain the majority of the uranium ore mined in the Ambrosia Lake area and also the primary aquifer), and Recapture Member (interbedded shale, siltstone, and sandstone).

The geologic units beneath the site, with the exception of the alluvium, dip (on a regional basis) toward the northeast at approximately 2 degrees. The alluvium has been deposited nearly horizontally on top of the Mancos Shale. The direction of the dip, relative depths, and relative thicknesses of the units are shown on Figure 3.4, a regional, generalized geologic cross section. The Recapture Member of the Morrison Formation is below the ore zone and is considered an aquitard, retarding the exchange of water between units above it and below it (Brod and Stone, 1981). Site activities should not have impacted deeper units because mining operations did not extend deeper than the Westwater Canyon member (the ore zone) and because the Recapture Member retards the exchange of water between units above and below it. These deeper units are excluded from further description.

The locations of site-specific geologic cross sections constructed from wells installed by the DOE for the UMTRA project are shown on Figure 3.5. Cross sections are shown on Figures 3.6 and 3.7. The cross sections show site-specific relationships between the shallow geologic units and the thickness of those units. Logs of the Ambrosia Lake UMTRA Project site wells shown on the figures are presented in Appendix A. There are a number of additional UMTRA Project site wells, but because of the large amount of information, logs for those wells are not included with this document. However, well construction details and water levels contained in the SPEAR data base (DOE, 1992b) for all of the wells are in Appendix B, Hydrogeologic Information. Additional information is available for review in the UMTRA Project Document Control Center, Albuquerque, New Mexico. Not contained in the SPEAR data base are water

FIGURE 3.4
GENERALIZED REGIONAL GEOLOGIC CROSS SECTION
FOR THE AMBROSIA LAKE AREA, NEW MEXICO

MODIFIED FROM DOE, 1991.

MODIFIED FROM DOE, 1991.

FIGURE 3.5
LOCATIONS OF GEOLOGIC CROSS SECTIONS
AMBROSIA LAKE UMTRA SITE, NEW MEXICO

FIGURE 3.6
SITE-SPECIFIC HYDROGEOLOGIC CROSS SECTION (A-A')
AMBROSIA LAKE UMTRA SITE, NEW MEXICO

NOTE: WELL 679 WAS DRY

FIGURE 3.7
SITE-SPECIFIC HYDROGEOLOGIC CROSS SECTION (B-B')
AMBROSIA LAKE UMTRA SITE, NEW MEXICO

level data from the most recent sampling event, in July 1994. These data are shown in Table 3.1 and on the cross sections (Figures 3.6 and 3.7).

Hydrology

Ground water

Hydrogeologic units at the site, in descending order, and the hydraulic properties of each, are as follows:

1. **Uppermost aquifer:** By definition in the RAP (DOE, 1991), the uppermost aquifer consists of the Tres Hermanos- C₁ and -C₂ silty sandstone units, weathered Mancos Shale, and alluvium. The maximum thickness (and depth below grade) of the aquifer is approximately 175 ft (53 m). However, the maximum saturated thickness is only about 25 ft (8 m).

To determine the source of water in the uppermost aquifer, it is necessary to evaluate the relationship between recharge and discharge. The major sources of recharge, waste water disposal and water from mine pumping, no longer exist. The only current source of recharge to the uppermost aquifer is rainfall infiltration, which is limited by the semiarid climate.

A primary factor in determining recharge from rainfall is a comparison between rainfall and evapotranspiration. Annual rainfall is low, at 8.8 inches (22 centimeters [cm]) (QMC, 1981), and evapotranspiration is high, at a rate of 54 inches (140 cm) (NOAA, 1979). Other indicators of the semiarid conditions are the sparse vegetation and poor quality soils. Therefore, the potential for recharge from precipitation is low.

A further indicator of little-to-no recharge is the interaction between surface water and ground water. There have been no uses of ground water in the shallow aquifer, since there are no wells, other than DOE monitor wells, at the site. The Mancos Shale beneath the Tres Hermanos-C Sandstone units acts as a lower confining unit, retarding the infiltration of water into lower units. Therefore, there are no mechanisms for significant reductions or withdrawals of ground water. If there was a significant amount of recharge from rainfall, water in the upper aquifer would build to a level at which the water level would be at ground surface, or it would discharge to surface water bodies. Neither scenario is valid, based on records of water levels and because the surrounding surface water bodies are ephemeral, containing water only after significant rainfall. Therefore, the saturated thickness currently in the unit is expected to either remain about the same or decrease as water spreads laterally and a portion of it migrates upward into the vadose (unsaturated) zone.

An aquifer test conducted February 2-3, 1989 on well 675 and described in the RAP (DOE, 1991), shows that the uppermost aquifer is incapable of a sustained yield of 150 gal (570 L) per day to a well. Therefore, the unit is

Table 3.1 Water levels for all existing wells, July 13, 1994, Ambrosia Lake UMTRA site

Well No.	TOC elev ^a	DTW ^b	WL elev ^c
674	6972.00	44.60	6927.40
675	6966.00	22.35	6943.65
676	6991.80	64.85	6926.95
677	7001.60	89.37	6912.23
678	6975(*)	220.80	6754.20
679	7011.00	< 300	(**)
680	6972.00	< 300	(**)
681	7004.00	213.41	6790.59
778	6962.70	27.93	6934.77
779	6963.00	36.65	6926.35
781	6968.40	39.64	6928.76
785	6961.30	43.25	6918.05
786	6963.40	21.86	6941.54
787	6971.30	56.33	6914.97
789	7003.90	Dry	(**)
792	7001.10	Dry	(**)
793	6998.60	27.55	6971.05
797	6972.00	Dry	(**)
798	6980.40	Dry	(**)

^aTOC ELEV: Top of casing elevation, in feet, above mean sea level (MSL).

^bDTW: Depth to water below top of casing, in feet.

^cWL ELEV: Water level elevation, in feet, MSL.

* - Estimated for Well 678 because the well head was destroyed.

** - No water level elevation because well was dry or DTW exceeded length of water level indicator.

considered a "limited use" aquifer, based on limited yield. The calculation set detailing the aquifer test is in Appendix B of this document. The NRC interpreted the test results as follows (NRC, 1990):

As defined in the standards, Class III ground water is not a current or potential source of drinking water for any of three reasons, including inability of the aquifer to provide a sustained yield exceeding 150 gal per day. The DOE determined that the upper aquifer, composed of alluvium, weathered Mancos Shale, and the Tres Hermanos-C Sandstone members, is incapable of sustained yield of 150 gal per day. The DOE's determination is based on the following:

(1) A pump test was performed on Well 675. It produced 0.35 gal per minute (500 gal per day). The water level was drawn down 13 ft in 12 hours, and the pumping could not be sustained.

(2) Well 675 has the greatest saturated thickness of any wells completed in the uppermost aquifer, and is screened to the base of the saturated zone. Therefore, it probably produces the maximum available water.

(3) The DOE calculated that long-term output of 150 gal per day at Well 675 could not be sustained for more than 1 day. DOE further justifies application of supplemental standards at Ambrosia Lake because water in the uppermost aquifer is of limited extent, and is derived solely from infiltration of mining and milling water sources.

Therefore, there is reasonable assurance that DOE is eligible to apply for supplemental standards because the uppermost aquifer at Ambrosia Lake contains Class III ground water.

2. Mancos Shale: The Mancos Shale acts primarily as an aquitard, but by definition in the RAP (DOE, 1991), it contains a portion of the uppermost aquifer, the Tres Hermanos-C₁ and -C₂ Sandstones. Also contained within the Mancos Shale are the Tres Hermanos-B and -A Sandstone units which are silty sandstone units interbedded within the Mancos Shale. Aquifer tests were not performed on the Tres Hermanos-B and -A Sandstone units. However, based on a lithology similar to the Tres Hermanos-C Sandstone units, the water-bearing capacity of the Tres Hermanos-B and -A Sandstone units is not much greater than the Mancos Shale.

Recharge to the Tres Hermanos-B and -A Sandstone units is from surface water at the locations where the units outcrop, or appear at the surface (Figure 3.4). The Tres Hermanos-B Sandstone unit outcrops about 1.5 mi (2.4 km) southwest of the Ambrosia Lake site and is recharged by drainage

from the nearby Quivira Mining Company uranium mill. Similarly, the Tres Hermanos-A Sandstone unit outcrops slightly further to the southwest and is likely recharged by water affected by the same mill (Bostick, 1985). Recharge to these units has likely decreased since the report by Bostick (1985) was prepared, because the mill is no longer in operation.

Based on water-level data contained in the SPEAR data base (DOE, 1992b), there is an indication that the Tres-Hermanos-B Sandstone unit is only partially saturated. The information is shown graphically on Figures 3.6 and 3.7. Because the unit is relatively thin and only partially saturated, its use as a potential aquifer is limited.

The Mancos Shale units that separate the Tres Hermanos Sandstones and the units that are above the Dakota Sandstone are continuous and act as aquitards because of their thickness and low hydraulic conductivity. According to the RAP (DOE, 1991), "...a hydraulic conductivity of 4.3×10^{-8} centimeter per second (cm/s) (1.2×10^{-4} feet per day) was measured in undisturbed Mancos Shale and is probably representative of the vertical hydraulic conductivity...." The low hydraulic conductivity of the Mancos Shale also makes it suitable as a source of low-permeability cover material for UMTRA Project disposal cells, and is used for several Project cells, including the Ambrosia Lake site.

3. **Dakota Sandstone:** The Dakota Sandstone is considered a secondary aquifer because of the relatively low yield (less than 10 gal [40 L] per minute) and poor water quality, when compared to the Westwater Canyon Member of the Morrison Formation (DOE, 1987a). Bostick (1985) reports that the Dakota Sandstone is present at land surface near the Quivira Mill and that surface discharge of water related to the Quivira Mill onto the outcrop of the Dakota Sandstone has caused contamination of the unit. The discharge of contaminated water at the outcrop and the discharge of water possibly from mill tailings placed in surrounding mines are the sources of contaminants found in the Dakota Sandstone beneath the Ambrosia Lake site.
4. **Morrison Formation:**
 - a. The Brushy Basin Member acts as an aquitard between the Dakota Sandstone and Westwater Canyon Member.
 - b. The Westwater Canyon Member is the principal aquifer in the Ambrosia Lake Mining District, but it is also the major source of uranium ore. Mine pumping began in the mid-1950s to facilitate ore removal from the Westwater Canyon Member. The ground water was discharged to surface drainages where it evaporated, and some infiltrated into the shallower zones. A portion of the water was used for mill process water. Because of the regional mine pumping, a large ground water depression has been created and ground water flow is probably toward the northeast (DOE, 1987a).

- c. The Recapture Member acts as an aquitard beneath the Westwater Canyon Member because of its thickness of 165 ft (50 m) and low permeability (DOE, 1987a).

Surface water

The Ambrosia Lake tailings site lies in the drainage basin of the Arroyo del Puerto, an ephemeral stream. Surface water flow occurs only after heavy rain; however, there are ponds approximately 1.5 mi (2.4 km) southwest of the site. Based on the presence of cattails and marsh grasses, it appears that the ponds contain water throughout the year. The ponds are located in the recharge area for the Tres Hermanos-B Sandstone unit and are fed by water from the Quivira Mining Company uranium mill operation.

Two unnamed drainage channels originate to the west (north ephemeral stream) and east (east ephemeral stream) of the site (Figure 3.3). There are no perennial streams close to the site.

3.3.2 Ground water quality

In order to define the extent of ground water contamination caused by the former uranium milling at the Ambrosia Lake site, water samples were collected from a DOE monitor well network from 1980 through 1994. Figure 3.5 shows a portion of the DOE monitor well network which is representative of current site conditions. Ground water samples collected from the monitor well network have been analyzed to determine the quality of ground water in the alluvium and the weathered Mancos Shale, the Tres Hermanos-C, -B and -A Sandstones, and the Westwater Canyon Member of the Morrison Formation. Ground water quality data by location for all Ambrosia Lake UMTRA Project site wells, including all sampling events, are presented in Appendix C of this document.

Background water quality

Background ground water quality in the alluvium and the weathered Mancos Shale and Tres Hermanos-C Sandstone at the Ambrosia Lake site is considered to be the same as existing water quality because former mining and milling activities have created the saturated conditions (Bostick, 1985). It has been demonstrated, using geochemical modeling, that the ground water within the alluvium and the weathered Mancos Shale is derived entirely from tailings seepage and mill-makeup water (DOE, 1991). Mill-makeup water was generated from mine pumping discharge. Details of the modeling results are presented in Table D.8.25 of the RAP (DOE, 1991).

Extent of contamination

Because all water contained in the alluvium and the weathered Mancos Shale and Tres Hermanos-C Sandstone in the area of the milling site is primarily a mixture of tailings seepage and mine discharge, the extent of contamination is

the same as the extent of ground water. Because of the large ground water depression created by mine pumping, all potential pathways for contamination from the Ambrosia Lake UMTRA site to enter units between the Tres Hermanos-C Sandstone and the Morrison Formation are points of discharge. Thus, there is no UMTRA site-related contamination in those units. Discharge of water from the Quivira Mining Company Mill to the outcrop of the Tres Hermanos-A Sandstone, Tres Hermanos-B Sandstone, and the Dakota Formation caused contamination of these units (Bostick, 1985). The Westwater Canyon Member is potentially contaminated by regional mining and milling processes because water from all overlying units drains into this unit through mine shafts and vent holes.

Alluvium and the weathered Mancos Shale

Tailings pore water at the site contained as much as 11,000 mg/L sulfate (DOE, 1991). The sulfate isopleth map (Figure 3.8) is used to define the extent of tailings-related contamination and, very likely, the extent of ground water in the alluvium and the weathered Mancos Shale at the site. Monitor well 620 is more than 1200 ft (370 m) southeast of the primary ground water mound. Sulfate concentrations and ground water in well 620 are assumed to be derived from the former holding ponds to the east (Figure 3.8). During the period of sampling (1980-1994), concentrations of arsenic, cadmium, chromium, molybdenum, nitrate, selenium, silver, uranium, and the activities of gross alpha and radium-226 plus radium-228 exceeded the proposed EPA ground water standards in the alluvium and the weathered Mancos Shale (Table 3.2).

Tres Hermanos-C Sandstone

The Tres Hermanos-C₁ Sandstone is separated from the underlying Tres Hermanos-C₂ Sandstone by a 10-to-15 ft-(3-to-4.5 m-)thick shale unit. This shale unit retards downward migration of contaminants, resulting in slightly higher levels of contamination in the Tres Hermanos-C₁ Sandstone (Table 3.3), compared to values in the Tres Hermanos-C₂ Sandstone (Table 3.4). There are insufficient data to draw a sulfate isopleth map for the Tres Hermanos-C₁ Sandstone. The sulfate isopleth map (Figure 3.9) shows the approximate extent of tailings-related contamination in the Tres Hermanos-C₂ Sandstone. This map indicates that contamination has moved farther downgradient to the northeast (as compared to Figure D.8.24 in DOE, 1991). In sulfate data from the January, 1991 sampling round (used for Figure 3.9), downgradient values are higher and upgradient values are lower, compared to those in the February, 1989 sampling round (used in Figure D.8.24 of DOE, 1991).

Maximum observed concentrations of cadmium, chromium, molybdenum, nitrate, selenium, silver, uranium, and the activities of gross alpha and radium-226 plus radium-228, exceed the EPA MCLs in ground water from wells completed in the Tres Hermanos-C₁ Sandstone (Table 3.3). Maximum observed concentrations of cadmium, chromium, molybdenum, selenium, silver, uranium and the activities of gross alpha and radium-226 plus radium-228 exceed the

Table 3.2 Maximum observed concentrations of EPA MCL constituents in monitor wells located in the alluvium/weathered Mancos Shale at the Ambrosia Lake site during the years from 1980 to 1994

Constituent ^a	MCL ^b (mg/L)	Monitor wells					
		620	674	675	706	792	793
Arsenic	0.05	0.01	0.02	0.02	0.33 ^c	0.016	0.016
Barium	1	0.1	<0.1	0.01	<0.1	<0.1	<0.1
Cadmium	0.01	<0.001	0.003	0.003	<0.001	0.01	0.013 ^c
Chromium	0.05	0.16 ^c	<0.01	<0.01	0.06 ^c	0.28 ^c	0.28 ^c
Lead	0.05	0.02	0.03	0.02	0.02	0.02	0.02
Mercury	0.002	<0.0002	<0.0002	<0.0002	<0.002	0.0007	0.0003
Molybdenum	0.1	0.5 ^c	9.81 ^c	2.72 ^c	225 ^c	1.87 ^c	2.01 ^c
Nitrate	44 ^d	12.1	69 ^c	252 ^c	25	1.8	830 ^c
Selenium	0.01	0.07 ^c	3.1 ^c	0.51 ^c	0.088 ^c	2.22 ^c	2.1 ^c
Silver	0.05	0.04	0.01	0.02	0.15 ^c	0.11 ^c	0.11 ^c
Combined Uranium-234 and -238	0.044 ^e	8.22 ^c	10.7 ^c	2.083 ^c	11.1 ^c	3.31 ^c	0.393 ^c
Gross alpha (excluding radon and uranium) pCi/L ^f	15	5300 ^c	2200 ^c	1700 ^c	15,000 ^c	2400 ^c	320 ^c
Combined Radium-226 and -228 pCi/L ^f	5	9.13 ^c	0.8	4.03	131.8 ^c	6.85 ^c	2.3

^aConstituents from Table 1 of the U.S. Environmental Protection Agency Draft Final Rule, Groundwater Standards for Remedial Actions at Inactive Uranium Processing Sites (60 FR 2854). All concentrations are in mg/L unless stated otherwise.

^bMCL: maximum concentration limit, from Table 1 of the U.S. Environmental Protection Agency Draft Final Rule, Groundwater Standards for Remedial Actions at Inactive Uranium Processing Sites (60 FR 2854).

^cExceeds MCL.

^dThe MCL for nitrate as (N) is 10 mg/L.

^eThe uranium concentration of 0.044 mg/L is equivalent to 30 pCi/L, which is the MCL.

^fpCi/L: picocuries per liter.

Table 3.3. Maximum observed concentrations of EPA MCL constituents in monitor wells located in the Tres Hermanos-C₁ Sandstone at the Ambrosia Lake site during the years from 1980 to 1994

Constituent ^a	MCL ^b (mg/L)	Monitor wells	
		778	786
Arsenic	0.05	0.022	0.02
Barium	1	<0.1	0.3
Cadmium	0.01	0.014 ^c	0.013 ^c
Chromium	0.05	0.22 ^c	0.14 ^c
Lead	0.05	0.02	0.02
Mercury	0.002	0.0005	0.0003
Molybdenum	0.1	0.16 ^c	0.34 ^c
Nitrate	44 ^d	430 ^c	55 ^c
Selenium	0.01	0.28 ^c	0.78 ^c
Silver	0.05	0.06 ^c	0.02
Combined Uranium-234 and -238	0.044 ^e	11.8 ^c	2.88 ^c
Gross alpha (excluding radon and uranium) pCi/L ^f	15	9400 ^c	1300 ^c
Combined Radium-226 and -228 pCi/L ^f	5	7.93 ^c	9.92 ^c

^aConstituents from Table 1 of the U.S. Environmental Protection Agency *Final Rule, Groundwater Standards for Remedial Actions at Inactive Uranium Processing Sites* (60 FR 2854). All concentrations are in mg/L unless stated otherwise.

^bMCL: maximum concentration limit, from Table 1 of the U.S. Environmental Protection Agency *Final Rule, Groundwater Standards for Remedial Actions at Inactive Uranium Processing Sites* (60 FR 2854).

^cExceeds MCL.

^dThe MCL for nitrate as (N) is 10 mg/L.

^eThe uranium concentration of 0.044 mg/L is equivalent to 30 pCi/L, which is the MCL.

^fpCi/L: picocuries per liter.

Table 3.4 Maximum observed concentrations of EPA MCL constituents in monitor wells located in the Tres Hermanos-C₂ Sandstone at the Ambrosia Lake site during the years from 1980 to 1994

Constituent ^a	MCL ^b (mg/L)	Monitor wells				
		779	785	787	677	676
Arsenic	0.05	0.025	0.012	0.019	<0.01	<0.01
Barium	1	0.3	0.1	0.01	0.01	0.01
Cadmium	0.01	0.016 ^c	0.024 ^c	0.012 ^c	0.004	0.003
Chromium	0.05	0.22 ^c	0.24 ^c	0.23 ^c	<0.01	<0.01
Lead	0.05	0.02	0.02	0.02	0.05	0.04
Mercury	0.002	0.0006	0.0006	0.0004	<0.0002	<0.0002
Molybdenum	0.1	0.14 ^c	0.35 ^c	0.25 ^c	0.024	0.595 ^c
Nitrate	44 ^d	2.29	20	29	6.9	25.6
Selenium	0.01	0.092 ^c	0.324 ^c	0.054 ^c	0.037 ^c	0.091 ^c
Silver	0.05	0.05	0.08 ^c	0.09 ^c	<0.01	<0.01
Combined Uranium-234 and -238	0.044 ^e	0.0238	3.30 ^c	0.018	0.016	0.207 ^c
Gross alpha (excluding radon and uranium) pCi/L ^f	15	74 ^c	1900 ^c	57.4 ^c	29 ^c	85.9 ^c
Combined Radium-226 and -228 pCi/L ^f	5	5.6 ^c	10.51 ^c	4.2	6.45 ^c	24.12 ^c

^aConstituents from Table 1 of the U.S. Environmental Protection Agency *Final Rule, Groundwater Standards for Remedial Actions at Inactive Uranium Processing Sites* (60 FR 2854). All concentrations are in mg/L unless stated otherwise.

^bMCL: maximum concentration limit, from Table 1 of the U.S. Environmental Protection Agency *Final Rule, Groundwater Standards for Remedial Actions at Inactive Uranium Processing Sites* (60 FR 2854).

^cExceeds MCL.

^dThe MCL for nitrate as (N) is 10 mg/L.

^eThe uranium concentration of 0.044 mg/L is equivalent to 30 pCi/L, which is the MCL.

^fpCi/L: picocuries per liter.

FIGURE 3.9
SULFATE ISOPLETH MAP FOR GROUND WATER IN THE
TRES HERMANOS-C₂ SANDSTONE
AT THE AMBROSIA LAKE UMTRA SITE, NEW MEXICO

MODIFIED FROM DOE, 1991.

EPA MCLs in ground water from wells completed in the Tres Hermanos-C₂ Sandstone (Table 3.4). Maximum concentrations of several parameters in the Tres Hermanos-C Sandstone have increased over those of previous years (compare Tables 3.3 and 3.4 to Tables D.8.13 and D.8.14, respectively in DOE, 1991), indicating that contamination is moving downgradient.

Units below the Tres Hermanos-C Sandstone

Units between the bottom of the Tres Hermanos-C Sandstone and the top of the Westwater Canyon Member include, in descending order, the Tres Hermanos-B and -A Sandstones, and the Dakota Formation. Ground water from monitor wells completed in these units does not appear to be affected by site-related contamination.

Nitrate levels are increasing in monitor well 678, completed in the Tres Hermanos-B Sandstone (3410 mg/L in the December, 1992 sampling round) (Figure 3.10). This increase is not related to uranium processing at the Ambrosia Lake site because: 1) it is not accompanied by increases in other relatively mobile site-related parameters (e.g. molybdenum, uranium, or sulfate), and 2) nitrate concentrations in monitor well 678 are much higher than average concentrations found in tailings pore fluids (approximately 1400 mg/L). Further, the Tres Hermanos-B Sandstone is hydrologically isolated from alluvium and the weathered Mancos Shale at the site (see section 3.3.1). Relatively high nitrate levels are most likely related to the nearby Quivira Mining Company tailings pile.

Westwater canyon member

The Westwater Canyon Member is the primary source of uranium ore in the area and was the focus of intense mining-related activity. Thus, mining activities not related to UMTRA Project site tailings seepage introduced many other sources of contamination into the Westwater Canyon Member. The DOE made a comparison of concentrations of contaminants in the Tres Hermanos-C Sandstone and the Westwater Canyon Member (Table D.8.26 of DOE, 1991) and concluded that, in general, concentrations in the Tres Hermanos-C Sandstone are lower. This suggests that seepage from the Tres Hermanos-C Sandstone ground water will produce no increases in the concentrations of contaminants in the Westwater Canyon Member.

3.3.3 Contaminant fate and transport

Percolation of alkaline tailings leachate from the Ambrosia Lake site into ground water has not raised the pH of ground water in monitor wells at the site. The near-neutral pH (6.84-7.91) measured in the Tres Hermanos- C Sandstone during the November-December 1992 sampling round indicates that the base-neutralization potential of the alluvium and the weathered Mancos Shale and the Tres Hermanos-C Sandstone has not been exhausted. Although an alkaline pH front has migrated through subsoils beneath the former tailings site, the change in pH is relatively insignificant and does not affect the solubility of contaminants

FIGURE 3.10
NITRATE CONCENTRATIONS VERSUS TIME IN MONITOR WELL 678
LOCATED IN THE TRES HERMANOS-B SANDSTONE
AMBROSIA LAKE SITE, NEW MEXICO

in tailings seepage (Table D.8.22 of DOE, 1991). The tailings fluid and ground water in the alluvium and the weathered Mancos Shale is oxidizing, but becomes somewhat less oxidizing as it flows from the alluvium and weathered Mancos Shale into the Tres Hermanos-C Sandstone (Table D.8.22 of DOE, 1991). The change, however, does not significantly affect the solubility of most contaminants. The most important EPA MCL-list contaminants in the ground water are nitrate, selenium, molybdenum, and uranium which occur as anions (DOE, 1991). Adsorption by the cation exchange process is not an important mechanism for removal of most of these contaminants at the Ambrosia Lake site. Dilution of tailings seepage by mill makeup water that drained into the alluvium and the weathered Mancos Shale reduced concentrations of these contaminants in the alluvium and the weathered Mancos Shale. Ultimately, contamination at the site will drain through mine shafts and drill holes into the Westwater Canyon Member of the Morrison Formation or be retained with residual moisture in the unsaturated alluvium and the weathered Mancos Shale or Tres Hermanos-C Sandstone.

3.3.4 Risk evaluation

Information on site-related risk to human health and the environment is integral to this SOWP to help guide the recommendation of a remediation strategy for the site. An initial risk assessment of ground water contamination at the Ambrosia Lake site was published in the RAP (DOE, 1991). This preliminary risk assessment discussed the potential health risks to humans from ingesting contaminated ground water in the uppermost aquifer beneath the former uranium mill processing site.

Potential public health impacts

The initial risk assessment presented in the 1991 RAP (DOE, 1991), qualitatively investigated potential risks to public health from exposure to ground water, assuming the most conservative pathway, exposure through drinking water, from the most contaminated wells at the processing site. The evaluation was based on ground water data and followed the hazard index approach proposed by the EPA (EPA, 1989). This initial identification of hazards, assessment of toxicity, assessment of potential exposure, and characterization of risk showed that levels of contaminants that would result in potential adverse health effects, if the ground water were ingested on a long-term basis, are present in shallow ground water beneath and adjacent to the site. Three indicator chemicals were selected for the evaluation: selenium, radium-226, and natural uranium. Hazard indices for selenium and uranium exceeded an acceptable index of one, and the excess lifetime cancer risks calculated exceeded the EPA acceptable limit of 1×10^{-4} (DOE, 1991).

Currently, no domestic wells accessing the contaminated ground water in the uppermost aquifer exist within 5 mi (8 km) of the site, and surface expression of ground water does not occur. Therefore, with no current exposure pathway present there are no current human health or environmental risks associated

with the contaminated ground water attributable to the Ambrosia Lake UMTRA site.

The potential for future use of the most contaminated ground water at the site is not probable. Several site conditions exist that greatly reduce the possibility of future exposure. The NRC and the state of New Mexico concurred with application of supplemental standards for "limited use" ground water at the Ambrosia Lake site for the UMTRA Surface Project (NRC, 1990). The ground water in the saturated zone where contamination occurs has been attributed primarily to previous mill-processing activities. An aquifer test on well 675 performed in February 1989 and described in the RAP (DOE, 1991), shows that the uppermost aquifer is incapable of a sustained yield of 150 gal (570 L) per day and is considered a "limited use" aquifer based on limited yield. Therefore, the uppermost aquifer lacks both a long-term yield sufficient to provide a continuous drinking water source and threat of chronic exposure for a potential future resident.

Since the major sources of aquifer recharge (waste water disposal and water from mine pumping) no longer exist, the saturated thickness of the aquifer is expected to either remain about the same, or decrease as ground water spreads laterally and a portion of it migrates vertically upward into the vadose zone. Furthermore, ground water contamination attributable to the Ambrosia Lake site has not migrated from the area beneath the site, and no shallow domestic wells have been identified within a 5 mi (8 km) radius from the site. Land use in the area is not expected to change in the future because of the poor quality of the range land, poor soils, and the limited surface or shallow ground water resources available in this semiarid region. These conditions make it very unlikely that a future resident would install a shallow well immediately adjacent to the fenced disposal site. Therefore, future long-term exposure to ground water is unlikely.

Environmental evaluation

Current exposure and the potential for future exposure to contaminated ground water were evaluated for ecological receptors (livestock and terrestrial and aquatic biota). Because surface expression of contaminated ground water does not occur, and no other current pathway (such as a well used to water livestock) has been identified, there are no current exposure pathways for contaminated ground water to be used by terrestrial and aquatic biota and livestock. Therefore, current environmental risks do not exist.

The potential for future exposure of contaminated ground water to terrestrial or aquatic biota and livestock is unlikely because 1) the contaminated ground water is within a "limited use" aquifer, 2) aquifer yield will decrease as the saturated thickness decreases, and 3) surface expression of contaminated ground water will not occur, based on existing information. Therefore, the possibility for potential future use of ground water contaminated by the Ambrosia Lake UMTRA site is unlikely.

3.4 ASSESSMENT OF DATA NEEDS

The hydrogeologic site description presented is supported by regional and site-specific data. The information includes hydrogeologic reports prepared by state and federal agencies, site-specific and regional water quality data, site and surrounding area well completion reports, and well hydraulic testing data. Because the data base indicates little variability in the hydrogeologic conditions, no additional data needs have been identified.

3.5 EVALUATION OF INTERIM REMEDIAL ACTION

Interim remedial action is not required because no existing risks to human health or livestock result from site contamination, nor can any potential future risks be foreseen.

4.0 GROUND WATER COMPLIANCE STRATEGY RECOMMENDATION

This section explains the application of site-specific data to the PEIS ground water compliance evaluation framework; recommends a ground water compliance strategy for the Ambrosia Lake processing site based on current conditions; analyzes possible deviations from the recommended ground water compliance strategy; and notes contingencies (conceivable reason for recommendation of a different compliance strategy) and rules (criteria) for application of contingencies.

4.1 GROUND WATER COMPLIANCE STRATEGY EVALUATION PROCESS

Ground water compliance recommendations at the former Ambrosia Lake processing site were made by using the compliance evaluation framework shown in Figure 4.1. This compliance evaluation framework was developed for analysis in the DOE UMTRA Ground Water PEIS (DOE, 1994). The recommended ground water compliance strategy for the Ambrosia Lake site will be selected by applying site-specific data to the approved PEIS compliance evaluation framework.

The compliance evaluation framework proposed in the PEIS provides for the identification of one or more of three ground water compliance strategies, based upon site-specific data. The three compliance strategies developed in the UMTRA Ground Water PEIS are defined as follows:

- **No Remediation:** Application of the strategy of no remediation would mean that compliance with the ground water protection standards would be met without altering the ground water or cleaning it up in any way. This strategy could be applied at sites that have no contamination above MCLs or background levels, or at sites that have contamination above MCLs or background levels but qualify for supplemental standards or ACLs.
- **Natural flushing:** Natural flushing allows for the natural ground water movement and geochemical processes to decrease the contaminant concentrations to levels within regulatory limits within a given time period. This could be applied at sites where ground water compliance would be achieved with the application of natural flushing within 100 years, where effective monitoring and institutional controls could be maintained, and where the ground water is not currently and is not projected to be a drinking water source.
- **Active ground water remediation:** Active ground water remediation would require the application of engineered ground water remediation methods such as gradient manipulation, ground water extraction and treatment, or *in situ* ground water treatment to achieve compliance with the ground water protection standards.

FIGURE 4.1
AMBROSIA LAKE COMPLIANCE SELECTION FRAMEWORK

The ground water compliance strategy recommended for the Ambrosia Lake site is to perform no remediation, based on the application of supplemental standards to the affected ground water. The recommended compliance strategy is an appropriate compliance strategy to carry forward for analysis in an Ambrosia Lake site-specific NEPA document because the NRC and the state of New Mexico concurred with the RAP and application of supplemental standards for the UMTRA Surface Project (NRC, 1990).

4.2 SITE-SPECIFIC GROUND WATER COMPLIANCE STRATEGY

This section describes how the proposed PEIS decision-making framework was used to evaluate and recommend an appropriate ground water compliance strategy for the Ambrosia Lake site.

The ground water compliance strategy for the Ambrosia Lake site was identified through the application of site conditions to the proposed PEIS framework. The evaluation resulted in the identification of the strategy of performing no ground water remediation, based on the application of supplemental standards. The following is a description of the evaluation process, illustrated in Figure 4.1:

First and second steps

The first two steps (boxes 1 and 2 of Figure 4.1) confirm that ground water quality data obtained from the Ambrosia Lake site have resulted in ground water contamination exceeding background levels or MCLs. The uppermost aquifer was created primarily by discharge of mill process water and therefore the presence of water is primarily artificial. Because all water contained in the alluvium and the weathered Mancos Shale and Tres Hermanos-C Sandstone (uppermost aquifer) in the area of the milling site is primarily a mixture of tailings seepage and mine discharge, the extent of contamination is the same as the extent of background ground water.

Third step

The third step (box 4 of Figure 4.1) determines whether compliance with the proposed standards could be achieved by applying supplemental standards based on the presence of "limited use" ground water. "Limited use" means the ground water is not a current or potential source of drinking water because the quantity of water available is less than 150 gal (570 L) per day (40 CFR §192.11(e)) (60 FR 2854). The uppermost aquifer at the Ambrosia Lake site, comprised of the alluvium, upper Mancos Shale, and Tres Hermanos-C Sandstones, is incapable of sustaining a well yield of greater than 150 gal (570 L) per day based on an aquifer test (DOE, 1991). Therefore, the criterion is met for the Ambrosia Lake site for application of "limited use" ground water (supplemental standards), based on an insufficient yield of ground water. The major sources of recharge, waste water disposal and water from mine pumping, no longer exist. Therefore, the alluvium, upper Mancos Shale, and Tres Hermanos-C Sandstones are expected to return to premilling and mining

conditions of little-to-no saturation, further eliminating the unit as a potential future ground water resource.

Fourth step

The fourth step (box 5 of Figure 4.1) determines whether applying supplemental standards results in acceptable human health and environmental risks. Levels of contaminants presenting potential adverse human health effects occur at the site, but would have effect only if the ground water were ingested on a long-term basis. Since there are no domestic wells accessing the contaminated ground water in the uppermost aquifer, and ground water does not discharge to the land surface, there are currently no human health risks associated with the contaminated ground water.

The potential for impacts to the ecological environment from contaminated ground water currently does not exist. Surface expression of ground water contaminated by the UMTRA Project site does not occur, and no other pathway (such as a well used to water livestock) has been identified. Without an exposure pathway for contaminated ground water to be used by terrestrial and aquatic biota and livestock, current environmental risks do not exist.

The potential for future use of the most contaminated ground water at the site is not probable. Ground water data show that the saturated zone at the site has a yield insufficient to provide a continuous drinking water source for a potential future resident. The saturated zone where contamination occurs is primarily attributed to previous processing activities. Since the major sources of aquifer recharge (waste water disposal and water from mine pumping) no longer exist, the saturated thickness of the existing ground water is expected to either remain about the same or decrease, as water spreads laterally and a portion of it migrates upward into the vadose zone. Therefore, future long-term exposure to ground water is unlikely.

Fifth step

The last step (box 7 of Figure 4.1) is the recommended site-specific compliance strategy. The strategy of performing no remediation, based on the application of supplemental standards to the site ground water is proposed as the recommended compliance strategy for the Ambrosia Lake site. The recommended compliance strategy is appropriate because the proposed PEIS process evaluation criteria and conclusions in the preceding steps are supported by existing site data.

4.3 DEVIATIONS, CONTINGENCIES, AND RULES

Elevation of site conditions through the proposed PEIS process supports the preliminary conclusion. The determination of the Ambrosia Lake site-specific hydrogeologic conditions is based on and supported by both regional and site-specific data. Therefore, deviations that would impact the interpretation of the

hydrogeologic conditions are not expected. Contingency plans and rules to implement those plans are necessary only if significant deviations are anticipated. Because deviations are not expected, contingency plans will not be required.

4.4 DATA COLLECTION AND ASSESSMENT

Additional data collection activities for the Ambrosia Lake site will not be required. Existing regional and site-specific data are adequate to evaluate site hydrologic conditions and site risks.

5.0 LIST OF CONTRIBUTORS

The following individuals contributed to the preparation of this report.

Name	Contribution
M.D. Hansen	Document coordinator, National Environmental Policy Act coordinator
M.B. Leaf	Site manager, document sponsor, document review
A. Miller	Primary author, hydrogeology
M. Day	Risk evaluation
D. Erskine	Geochemistry
D. Bierley, R. Bowen, P. Briggs, J. Gibb, A. Holm, L. Ulland	Document review
J. Torline, R. Woodward	Editing
L. Sanchez, J. Martin	Text processing
B. Harvey	Graphic design

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10 CFR Part 1021, "National Environmental Policy Act; Implementation Procedures," U.S. Department of Energy, 1994.

40 CFR Part 192, "Health and Environmental Protection Standards for Uranium and Thorium Mill Tailings," U.S. Environmental Protection Agency, 1994.

40 CFR Part 1500, "Purpose, Policy, and Mandate" (Regulations for Implementing the Procedural Provisions of the National Environmental Policy Act), Council on Environmental Quality, 1994.

FEDERAL REGISTER

60 FR 2854, "Groundwater Standards for Remedial Actions at Inactive Uranium Processing Sites," Final Rule, January 11, 1995.

UNITED STATES CODE

42 USC §4321, *et seq.* *National Environmental Policy Act*, January 1, 1970.

42 USC §7901, *et seq.* *Uranium Mill Tailings Radiation Control Act*, November 8, 1978.

42 USC §7922, *et seq.* *Uranium Mill Tailings Remedial Action Amendments Act*, November 5 1988.

APPENDIX A

**LITHOLOGIC LOGS, WELL RECORDS, AND WELL COMPLETION LOGS
AMBROSIA LAKE, NEW MEXICO, UMTRA PROJECT SITE**

AMBROSIA LAKE UMTRA SITE SOWP

WELL LOGS FOR APPENDIX A

RECORD OF DOCUMENTS

AMBROSIA LAKE UMTRA SITE SOWP
WELL LOGS FOR APPENDIX A
(as of 8/17/94)

WELL NO	LITH LOG	WELL REC	WELL LOG
620	0	0	0
674	X	X	X
675	X	X	X
676	X	X	X
677	X	X	X
678	X	X	X
679	X	X	X
680	X	X	X
681	X	X	X
706	0	0	0
776	X	X	0
777	X	X	X
778	X	X	X
779	X	X	X
781	X	X	0
782	X	X	X
783	X	X	X
785	0	X	X
786	X	X	X
787	X	X	X
790	X	X	X
792	X	X	X
793	X	X	X
794	X	X	X
796	X	X	X
797	X	X	X
798	X	X	X
799	X	X	X

WELL RECORD = DIAGRAM
WELL LOG = 1 PG FORM
X= RECORD OBTAINED
0=RECORD MISSING

WELL 674 LOGS

BOREHOLE LOG (SOIL)

Page 1 of 2

LOCATION MAP:

SITE ID: AMB-16 LOCATION ID: MW-674
SITE COORDINATES (N. E.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
DRILLING METHOD: HSA 10" MOBILE 8-80
DRILLING CONTR.: CHEN-NORTHERN
DATE STARTED: 16 DEC 88
DATE COMPLETED: 17 DEC 88
FIELD REP.: D.R. WETZLER

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)
17 DEC	1305	45.0
21 DEC	1400	42.5

LOCATION DESCRIPTION 120' West of old WOODEN POST LINE FENCE, WEST OF PILE.
SITE CONDITION FLAT, BASIN SURFACE, SPARSE VEGETATION, DRY

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	TYPE	ID	BLOWS PER 6 IN.	N VALUE	USCS	VISUAL CLASSIFICATION
0						No Blow Counts taken		SM	<u>Topsoil:</u> <u>silty sand</u> , dry w/ rootlets to 1.0'. Medium sands w/ considerable silt fraction some clay particles. loose, low to non plastic Brown
5								SM	<u>Qal:</u> <u>silty sands</u> , dry, mostly fine to med. sands poorly graded, N.P., Reddish Brown.
10									
15									
20								SC	<u>Qal</u> <u>clayey sands</u> , slightly moist, soft, low pi, sands med. grain size, Brown.
25									
30								CL	<u>Qal</u> <u>sandy clay</u> , moist, soft, med. pi, sands med size grain less than 20% Lt. Brown

COMMENTS:

SAMPLE TYPE

A - Auger cuttings
S - 3" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. thin-walled Shelby tube

BOREHOLE LOG (SOIL)

LOCATION MAP:

SITE ID: AMB-16 LOCATION ID: MW-674

SITE COORDINATES (ft.):

N _____ E _____

GROUND ELEVATION (ft. MSL): _____

DRILLING METHOD: _____

DRILLING CONTR.: _____

DATE STARTED: _____

DATE COMPLETED: _____

FIELD REP.: _____

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION

SITE CONDITION

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	TYPE	ID	BLOWS PER 6 in.	N VALUE	USCS	VISUAL CLASSIFICATION
								CL	<u>Sandy clay</u> (continued)
35									
40									
45								GL	Pebbly / gravelly, sand clay. granular w/ trace amounts of fine gravelly (basal member of the Alluvium, sands are fine, poorly graded, gravels consist of calcareous ferruginous mudstone, well cemented.
50									T.D. 49.0' Augered to 49.0' TOP of DE WILKINS FM. 49.0'

COMMENTS:

SAMPLE TYPE

SAMPLE TYPE
A - Auger cuttings
S - 2" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. thin-walled Shelby tube

WELL COMPLETION RECORD

SITE ID: AMB-16 LOCATION ID: MW 674 DATE INSTALLED: 17 Dec 88
APPROX. SITE COORDINATES: (FT.) N NK E NK
OPEN AREA PER LINEAL FT. (IN²/FT.) (10")² - (4.5")²
FORMATION OF COMPLETION: BASE OF (QAL) ALLUVIUM
FIELD REP.: D. R. METZLER DRILLER: CITEN - NORTHERN

COMMENTS: WATER LEVEL 45.0 immediately after
drilling. CASING STICK-UP TRIMMED TO 3.0' ABOVE
GROUND LEVEL.

JE JACOBS ENGINEERING GROUP INC.
ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS
BOREHOLE/WELL CONSTRUCTION LOG

SITE ID: AMB-16 LOCATION ID: MW-674 FIELD REP: D.R. METZLER
 APPROX. SITE COORDINATES (FT.): N NK E NK
 GROUND ELEVATION (FT. MSL): 6965.0 COMPLETION DATE: 17 DEC 88

BOREHOLE SUMMARY				CONSTRUCTION TIME LOG			
DRILLER: <u>CHEN NORTHERN</u>				ACTIVITY	START		END TIME
RIG TYPE: <u>MOBILE B-80</u>					DATE	TIME	
BIT TYPE	HOLE DIA. (in.)	END DEPTH (ft.)	FLUID TYPE	DRILLING	16 DEC	1400	1830
AUGER ST TOOTH BIT	10.0	49.0	NONE		17 DEC	700	1300
CASING SUMMARY				CASING	17 DEC	1300	1315
CASING TYPE*	DESCRIPTION	DIA. (in.)	END DEPTH (ft.)	FILTER PACK 12 SACKS	17 DEC	1315	1345
B	SECT 40 FLUSH END CAP	4.0	49.0	SEAL	17 DEC	1500	1600
B	" " " SUMP	4.0	48.5	BACKFILL	18 DEC	700	900
S	" " " SCREEN	4.0	46.5	DEVELOPMENT Bailed only	JAN 26	1000	1400
B	" " " BLANKS	4.0	36.5	OTHER			
B	" " " TOP CAP	4.0	0.5				
	CENTRALIZER TOP						
	4' BOTTOM OF						
	SCREEN (S-Steel)						
* P-Protective B-Screen B-Blank O-Open N-None							
* Depth from Top of Casing							
WELL CONSTRUCTION				WELL DEVELOPMENT			
TYPE CODE*	DESCRIPTION	END DEPTH (ft.)	Low liquidity of I bailed this well off and on for most of the day. ~ 4' of water in the well prior to bailing. The water was very sediment laden. As the bailing continued the water became more clear. Recharge ~ 5-10 gpm/hour.				
F	8-12 silica sand	48.5					
S	1/4" bentonite Pellets	23.2					
S	3/4" bentonite chip	21.6					
B	verified grout	10.0					
			COMMENTS: 2 buckets of pellets				
			3 sacks of chip				
* B - Backfill B - Seal F - Filter Pack							
* Depth from Ground Surface							

WELL 675 LOGS

BOREHOLE LOG (SOIL)

Page 1 of 2

LOCATION MAP:

SITE ID: AMB-16 LOCATION ID: MW-675
SITE COORDINATES (ft.):
N E
GROUND ELEVATION (ft. MSL): 3 6265.0
DRILLING METHOD: HSA 10"
DRILLING CONTR.: CHEN NORTHERN
DATE STARTED: 12 DEC 88
DATE COMPLETED:
FIELD REP.: D.R. METZLER

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION BETWEEN THE E-W BEARINGS ROAD, 25' N. OF CONTROL FENCE
SITE CONDITION MIDWAY DOWN THE PILE ON SOUTH SIDE, FLAT, WOOD COVERED

FEET DEPTH D	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	TYPE	ID	BLOWS PER 6 IN.	N VALUE	USCS	VISUAL CLASSIFICATION
								SM	<u>Topsoil</u> poorly developed, immature, void of massive-root structures
5				G	01			SM	predominantly fine to v. fine sands with considerable silt. NP, v. loose, dry, Lt Brown
10								SC	<u>SILTY SAND</u> , predominantly fine sands w/ considerable silt, loose, dry, Brown
15								CL	<u>CLAYEY SAND</u> , predominantly fine sands, with a considerable silt/clay fraction. low Pi moist, Lt Brown.
20								CL	BECOMING MORE CLAYEY (<u>SANDY CLAY</u> , some fine grain sands med Pi, moist, Lt Brown.
25								CL	<u>SILTY CLAY</u> , homogenous, non stratified clays of med to high plasticity, med. stiff, moist, OLIVE BROWN.
30								CH/SC	CONTACT: BEDROCK/ <u>CLAYSTONE/SHALE</u> CLAYS, v. stiff, homogenous, moist, of high plasticity, OLIVE (UPPER MANCOS)

COMMENTS:

SAMPLE TYPE
A - Auger cuttings
S - 2" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. therwashed Shelby tube

Page 2 of 2

A

SITE COORDINATES (ft.):

N _____ E _____

GROUND ELEVATION (ft. MSL): _____

DRILLING METHOD: _____

DRILLING CONTR.: _____

DATE STARTED: _____

DATE COMPLETED: _____

FIELD REP.: D.R. METZLER

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)
12 DEC 88	4:00 PM	29
	and rising	

LOCATION DESCRIPTION

SITE CONDITION

[illegible]

COMMENTS:

SAMPLE TYPE

SAMPLE TYPE
A - Auger cuttings
S - 2" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. thin-walled Shelby tube

WELL COMPLETION RECORD

SITE ID: ANB-16 LOCATION ID: YW-675 DATE INSTALLED: 12 DEC 88

APPROX. SITE COORDINATES: (FT.) N NA E NA

OPEN AREA PER LINEAL FT. (IN²/FT.) 10² - 4.5²

FORMATION OF COMPLETION: TOP OF THE MANCOS / Base of ALLUVIUM

FIELD REP.: D.R. METZGER DRILLER: CHEN NORTHERN

COMMENTS: WATER AT 29.0 if possibly rising AT
END of Drilling.

JE JACOBS ENGINEERING GROUP INC.
ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS
BOREHOLE/WELL CONSTRUCTION LOG

SITE ID: AMB-16 LOCATION ID: MW-675 FIELD REP: DR. METZGER
 APPROX. SITE COORDINATES (FT.): N NA E NA
 GROUND ELEVATION (FT. MSL): 2 6965.0' COMPLETION DATE: 12 DEC 88

BOREHOLE SUMMARY				CONSTRUCTION TIME LOG			
DRILLER: <u>CHEN NORTHERN</u>				ACTIVITY	START		END TIME
RIG TYPE: <u>MOBILE 80 B</u>					DATE	TIME	
BIT TYPE	HOLE DIA. (in.)	END DEPTH (ft.)	FLUID TYPE	DRILLING	12-12-88	1130	350 pm
HSA	10.0	35	NONE.				
			A font				
			Bucket of				
			clean water	CASING	12-12	355 pm	405 pm
CASING SUMMARY				FILTER PACK	12-12	405 pm	420
CASING TYPE*	DESCRIPTION	DIA. (in.)	END DEPTH (ft.)	SEAL	12-12	420	425
B	SCH 40 PVC SUMPT CAP	4.0	35.0	BACKFILL	12-12	500	530
S	" " " SCREEN	"	32.5				
B	" " " BLANKS	"	22.5	DEVELOPMENT			
P	PROTECTIVE STEEL CASING	8 5/8	6.0				
				OTHER			
* P-Protective S-Screen B-Blank O-Open N-None							
* Depth from Top of Casing							

* P-Protective S-Screen B-Blank O-Open N-None
 * Depth from Top of Casing

WELL CONSTRUCTION			WELL DEVELOPMENT	
TYPE CODE*	DESCRIPTION	END DEPTH (ft.)	WATER LEVEL 16 DEC 88, is 22.5 from T. of C. 2 18.5 from brown surface.	
F	8-12 SILICA SAND	35.0		
S ₁	Bentonite Pellets	15.7		
S ₂	Bentonite chip 3/4"	13.5		
B	bentonite-grout-cement	10.0	COMMENTS: 9 bags of 8-12 silica 2 bucket of bentonite Pellets 3 bags of hole plug 3/4" hydrated bentonite Pellets w/ 5 gal clean H ₂ O	

* B - Backfill S - Seal F - Filter Pack
 * Depth from Ground Surface

WELL 676 LOGS

BOREHOLE LOG (SOIL)

Page 1 of 4

LOCATION MAP:

SITE ID: AND-16 LOCATION ID: NW-676
SITE COORDINATES (N.):
N NK E NK
GROUND ELEVATION (ft. MSL): NK
DRILLING METHOD: AIR ROTARY
DRILLING CONTR.: SALAZAR DRILLING / CHEN
DATE STARTED: 17 DEC, 1988
DATE COMPLETED: _____
FIELD REP.: D. R. METZLER

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION NW OF EXISTING TAILINGS PILE 20' NORTH OF 782 WEL.
SITE CONDITION FLAT, GRASSES AND SCRUB COVERED, DRY.

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	TYPE	ID	BLOWS PER 6 IN.	R VALUE	USCS	VISUAL CLASSIFICATION
0									
				h	01	NO BLOW COUNTS			VERY LITTLE TO NO TOPSOIL, roots - rootmass to ~3-4" surface very loose, dry, tan
5					02			SM	SILT SANDS <u>Qal</u> (blow sand) sands - predominantly v. fine to med. gr. sands, moderately graded w/ some silt, N.P., grains consist of angular to sub angular Qtz. and lithic minerals, v. loose, dry, brownish tan.
10					03				
15					04			SP	SANDS, <u>(weathered t.h.s.s.?)</u> w/ a trace of silt, predominantly fine to med grain sands, sub round to round, N.P. grains consist of 70% + Qtz. w/ < 5% iron detrital clasts. loose, dry, orange-tan. NOTE: calcareous cement and or clasts present from 20.0' - downward.
20					05				
25					06				
30					07				

COMMENTS:

SAMPLE TYPE
A - Auger cuttings
S - 3" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. thin-walled Shelby tube

JACOBS ENGINEERING GROUP INC.

ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS

BOREHOLE LOG (SOIL)Page 2 of 4**LOCATION MAP:** SITE ID: AMB-16 LOCATION ID: MW-676

SITE COORDINATES (N. E.):

N _____ E _____

GROUND ELEVATION (ft. MSL): _____

DRILLING METHOD: _____

DRILLING CONTR.: _____

DATE STARTED: _____

DATE COMPLETED: _____

FIELD REP.: _____

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION**SITE CONDITION**

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	TYPE	ID	BLOWS PER 6 IN.	N VALUE	USCS	VISUAL CLASSIFICATION
30									
				4				SS	Sandstone <u>tres hermanos member of the Mancos shale. ?</u>
35					08				strongly calcareous cemented sandstone consisting of poorly graded sub round fine sands grains including predominantly of 3 w/ other lithic clasts. extremely hard, v. low permeability. DRY, orangeish-tan.
40					09				INTERCTED WATER
45					10				
50					11			SC	NOTE: clasts and or ferruginous cementing of hematite in varying degrees of oxidation.
55					12				clayey sand (oxidized Mancos sh.) w/ some rotary cutting fragments of hd. well cemented ss. predominantly fine sands w/ a considerable portion of silts and clays low PL. reddish brown.
60					13				SHALE <u>MANCOS shale fm.</u> Contact

COMMENTS:**SAMPLE TYPE**

A - Auger cuttings
S - 2" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. ther-washed Shelby tube

BOREHOLE LOG (SOIL)

Page 3 of 4

LOCATION MAP:

SITE ID: AMB-16 LOCATION ID: MW-676
SITE COORDINATES (ft.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
DRILLING METHOD: _____
DRILLING CONTR.: _____
DATE STARTED: _____
DATE COMPLETED: _____
FIELD REP.: _____

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION _____
SITE CONDITION _____

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	TYPE	ID	BLOWS PER 6 in.	N VALUE	USCS	VISUAL CLASSIFICATION
				4				Cs/ Ms	Continued from previous page.
65					14				SHALE: <u>MANCOS shale fm.</u>
									consisting of silts and clays
									(could be called a siltstone
									or claystone), competent, dark
									grey, graded into lens w/
									a trace to some v. fine
70					15				sands (not enough to classify
									it as ss.
									NOTE: at 65-70' the fm. consists
									of predominantly a well sorted, well
									round silts (95% passing a
75					16				200 screen) glauconite minerals
									present, not-fissile, more
									massive, a <u>SILTSTONE</u>
									varies in color from a lt.
80					17				grey to a dk grey.
									NOTE: The trace of sands that are
									present are extremely fine-
									grained.
85					18				SILTstone, Lt grey
90					19				

COMMENTS: _____

SAMPLE TYPE

A - Auger cuttings
S - 3" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. thin-walled Shelby tube

JACOBS ENGINEERING GROUP INC.
ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS

BOREHOLE LOG (SOIL)

Page 4 of 4

LOCATION MAP:

SITE ID: AMB-16 LOCATION ID: MW-676
SITE COORDINATES (ft.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
DRILLING METHOD: _____
DRILLING CONTR.: _____
DATE STARTED: _____
DATE COMPLETED: _____
FIELD REP.: _____

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION _____
SITE CONDITION _____

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	TYPE	D	BLOWS PER 6 in.	N VALUE	USCS	VISUAL CLASSIFICATION
				4					Same as previous page. <u>MANCOS SHALE</u> :
95					20				
100					21				
105					22				
110					23				
115					24				
									T.D. 120' Geophysical logs: <u>ELECTRIC</u>
120					25				

COMMENTS: E logs 0-109' 109-120' filled in
with sediment

SAMPLE TYPE

A - Auger cuttings
S - 3" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. thin-walled Shelby tube

JACOBS ENGINEERING GROUP INC.
ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS

WELL COMPLETION RECORD 1

SITE ID: AHB-16 LOCATION ID: NW 676 DATE INSTALLED: 12-22-88

APPROX. SITE COORDINATES: (FT.) N _____ E _____

OPEN AREA PER LINEAL FT. (IN²/FT.) 8" - 4.5"

FORMATION OF COMPLETION: Manos Shale (C2?) Tres C

FIELD REP.: D. Hatcher / h. Phylle DRILLER: Chen Northern

COMMENTS: left open for TAC decision
completed under Larry Phylle's supervision

JACOBS ENGINEERING GROUP INC.
ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS

BOREHOLE/WELL CONSTRUCTION LOG

SITE ID: AMB-16 LOCATION ID: MW-676 FIELD REP: D.R. METZLER

APPROX. SITE COORDINATES (FT.): N NK E NK

GROUND ELEVATION (FT. MSL): NK COMPLETION DATE: 12-22-88

BOREHOLE SUMMARY				CONSTRUCTION TIME LOG			
DRILLER: <u>SALAZAR DRILLING SUB'CD</u> TO <u>CHEN NORTHERN</u> RIG TYPE: _____				ACTIVITY	START		END TIME
					DATE	TIME	
BIT TYPE	HOLE DIA. (in.)	END DEPTH (ft.)	FLUID TYPE	DRILLING	17 DEC	1500	1700
TRI-CONE	7 7/8"	120'	AIR/WATER	T.D. 120'	18 DEC	730	1130
TRI-CONE	10 7/8"	40'	AIR/WATER	Pilled off	21 DEC	1500	1630
					22 DEC	700	0930
				CASING	22 DEC	0930	1015
CASING SUMMARY				FILTER PACK	22 DEC	1015	1045
CASING TYPE*	DESCRIPTION	DIA. (in.)	END DEPTH (ft.)	SEAL	22 DEC	1110	1200
P	Protective Steel	8 7/8	6.0	BACKFILL	22 DEC	1330	1445
B	Schedule 40 PK	4	97.5	DEVELOPMENT	JAN 25	830	1030
S	Sch 40 PK (9.06" Sched)	4	117.5		JAN 25	1045	1215
B	Schedule 40 PK	4	120	OTHER			
				E Logs	18 DEC	1230	1400
* P-Protective B-Screen S-Blank O-Open N-None							
* Depth from Top of Casing							
WELL CONSTRUCTION				WELL DEVELOPMENT			
TYPE CODE*	DESCRIPTION	END DEPTH (ft.)		Blew with rig compressor 2-150 psi for 2 hours. The first blow produced water for 2-15 minutes. Water was produced in small quantities only. Bailed up 2"-5" long Plastic bailer, water still cloudy after multiple slug removals, minor silica - gravel never slipping through screen.			
B	Cement/Bentonite Grout	10					
S	Hole Plug Bentonite	82.0		COMMENTS: <u>left hole open, temp.</u> <u>for input on screened interval</u>			
F	Colo. SDZ Sand 8-12	120.0					
* B - Backfill B - Seal F - Filter Pack							
* Depth from Ground Surface							

WELL 677 LOGS

BOREHOLE LOG (SOIL)

Page 1 of 6

LOCATION MAP:

SITE ID: AMB-16 LOCATION ID: 677
SITE COORDINATES (ft.):
N NK E NK
GROUND ELEVATION (ft. MSL): NK
DRILLING METHOD: ROTARY
DRILLING CONTR.: CHRN HARTMAN / Salsbery
DATE STARTED: 17 DEC 88
DATE COMPLETED: 22 DEC 88
FIELD REP.: D. MITCHELL

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)
21 DEC	500 AM	119'
(FROM ground surface)		

LOCATION DESCRIPTION N 90°W, 315' from EXISTING WELL 781, N. of PILE
SITE CONDITION FLAT, loose sand w/ sparse woody plant community

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	TYPE	ID	BLOWS PER 6 in.	N VALUE	USCS	VISUAL CLASSIFICATION
0									
						no blow counts		SM	VOID OF TOPSOIL
						Drilled w/ water			SILTY SANDS:
5			✓		01				Considerable silty, w/ mud. sorted
						the entire			fine to fine sand
10			✓		02				grains, v. loose, dry
									TAN.
									predominantly 0.25 grain (non plastic)
15			✓		03				
20			✓		04				
25			✓		05			SC	clayey sand, predominantly v. fine to fine sands w/ trace of clay.
									orange-tan (NP)
30			✓		06			SC	sandy clay, most clay with a considerable amount of (loose) fine sand orange-tan

COMMENTS: 01 = 60.5 sample
Drilling with water

SAMPLE TYPE

A - Auger cuttings
S - 2" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. thin-walled Shelby tube

BOREHOLE LOG (SOIL)

Page 2 of 6

LOCATION MAP:

SITE ID: AMB-16 LOCATION ID: MW: 677
SITE COORDINATES (ft.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
DRILLING METHOD: _____
DRILLING CONTR.: _____
DATE STARTED: _____
DATE COMPLETED: _____
FIELD REP.: _____

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION _____
SITE CONDITION _____

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	TYPE	ID	BLOWS PER 6 in.	N VALUE	USCS	VISUAL CLASSIFICATION
				6				CL	<u>SILTY CLAY</u> , predominantly clay with some silty and a trace of sand. med PI, highly weathered possible base of gal e 35' inclusion of oxidized iron- clay minerals - orange
35			✓		07				
40			✓		08				
45			✓		09			CH	<u>MANCOS shale fm</u> consists of highly weathered, oxidized shales, mostly altered to clay- stone, with remnants of residual shale showing fissility. olive-tan orange iron bearing alter clay minerals at 45' becomes DK. olive brown at 55' showing unaltered inclusions of dk gray shale is still in the partially oxidized weathered Mancos
50			✓		10				
55			✓		11				
60			✓		12				

COMMENTS: _____

SAMPLE TYPE

A - Auger cuttings
S - 2" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. thin-walled Shelby tube

BOREHOLE LOG (SOIL)

Page 3 of 6

LOCATION MAP:

SITE ID: AMB-16 LOCATION ID: MW 677
SITE COORDINATES (ft.):

N _____ E _____

GROUND ELEVATION (ft. MSL): _____

DRILLING METHOD: _____

DRILLING CONTR.: _____

DATE STARTED: _____

DATE COMPLETED: _____

FIELD REP.: _____

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION _____

SITE CONDITION _____

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE REMOVED	TYPE	ID	BLOWS PER 6 in.	N VALUE	USCS	VISUAL CLASSIFICATION
				6				CH	<u>Manco's shale</u> partially oxidized clays. with remnants of unoxidized black shale. iron minerals partially oxidized to limonite
65			✓		13				
70			✓		14			shale/ CH/ H ₂	<u>MANCO'S shale</u> unoxidized, non weathered fissile in zones, predominantly silt size particles, occasionally grading kaotically to v. fine sands, pseudomorphs of Feldspathic minerals or more than likely rock fragments that have completely altered to clays. generally, the Manco's shale is somewhat homogenous. abundant CaCO ₃ cementation, including fracture infilling w/ calcite, color varies from lt. grey to DK grey. In places, organic rich matter is present producing a greasy feel.
75			✓		15				
80			✓		16				
85			✓		17				
90			✓		18				

COMMENTS: _____

SAMPLE TYPE

A - Auger cuttings
S - 2" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. thin-walled Shelby tube

JACOBS ENGINEERING GROUP INC.
ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS

BOREHOLE LOG (SOIL)

Page 4 of 6

LOCATION MAP:

SITE ID: AHB-16 LOCATION ID: NW 677
SITE COORDINATES (ft.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
DRILLING METHOD: _____
DRILLING CONTR.: _____
DATE STARTED: _____
DATE COMPLETED: _____
FIELD REP.: _____

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION _____
SITE CONDITION _____

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE REMOVED	TYPE	ID	BLOWS PER 6 in.	N VALUE	USCS	VISUAL CLASSIFICATION
				6					
98				✓	19			sandy shale	MANCOS SHALE: BECOME sandier, somewhat granular, mostly shaly, with some fine grains of ss. E logs show a response, Lt to DK GRAY.
100				✓	20			shale; claystone	MANCOS SHALE: predominantly silt & clays forming a fissile shale in zones. Massive in other areas. Calcite abundant in fracture. filling and pore filling. Lt to DK GRAY.
105				✓	21			silt- stone	
110				✓	22				MANCOS shale: Becomes sandier, somewhat granular, still plastic, with some fine grains of Qtz. present. E logs show a slight response. Lt to DK GRAY
115				✓	23				MANCOS shale: The clayey silty facies, Lt to DK GRAY.
120				✓	24				

COMMENTS: _____

SAMPLE TYPE

A - Auger cuttings
S - 2" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. thin-walled Shelby tube

BOREHOLE LOG (SOIL)

Page 5 of 6

LOCATION MAP:

SITE ID: AMB-16 LOCATION ID: MW-677
SITE COORDINATES (ft.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
DRILLING METHOD: _____
DRILLING CONTR.: _____
DATE STARTED: _____
DATE COMPLETED: _____
FIELD REP.: _____

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION _____
SITE CONDITION _____

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	TYPE	D	BLOWS PER 6 IN.	N VALUE	USCS	VISUAL CLASSIFICATION
				6					MANCOS Shale: silty clayey sands, with abundant Calcite filling of fractures and pore space. Homogeneous, fissile in places, lit to dk gray.
125			✓		25				
130			✓		26				
135			✓		27				
140			✓		28				
145			✓		29				
150			✓		30				

COMMENTS: _____

SAMPLE TYPE

A - Auger cuttings
S - 2" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. thin-walled Shelby tube

JACOBS ENGINEERING GROUP INC.
ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS

BOREHOLE LOG (SOIL)

Page 6 of 6

LOCATION MAP:

SITE ID: AMB-16 LOCATION ID: MW-677
SITE COORDINATES (ft.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
DRILLING METHOD: _____
DRILLING CONTR.: _____
DATE STARTED: _____
DATE COMPLETED: 20 Dec 88
FIELD REP.: _____

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION _____
SITE CONDITION _____

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	TYPE	ID	BLOWS PER 6 IN.	N VALUE	USCS	VISUAL CLASSIFICATION
					67				<u>Mancoos shale</u> Same as previous page
155			✓		31				
160			✓		32				
165			✓		33				
170			✓		34				
									T.D. at 172.0

COMMENTS: _____

SAMPLE TYPE

A - Auger cuttings
S - 3" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. ther-walled Shelby tube

JACOBS ENGINEERING GROUP INC.
ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS

WELL COMPLETION RECORD

SITE ID: AMB-16 LOCATION ID: MW 677 DATE INSTALLED: DEC 20, 88

APPROX. SITE COORDINATES: (FT.) N NK E NK

OPEN AREA PER LINEAL FT. (IN²/FT.) (8)"² - (4.5)"²

FORMATION OF COMPLETION: MANCOS SHALE; TRES C

FIELD REP.: D.R. METZGER DRILLER: CHEN NORTHERN

COMMENTS: hydrated chip w/ 5 gallons of water
at 119' 21 sec from ground level

JACOBS ENGINEERING GROUP INC.
ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS

BOREHOLE/WELL CONSTRUCTION LOG

SITE ID: AMB-16 LOCATION ID: MW-677 FIELD REP: D.R. METZLER

APPROX. SITE COORDINATES (FT.): N NK E NK

GROUND ELEVATION (FT. MSL): _____ COMPLETION DATE: _____

BOREHOLE SUMMARY				CONSTRUCTION TIME LOG			
DRILLER: <u>SALAZAR DRILLING SUBCD</u> <u>TO CHEN NORTHERN</u>				ACTIVITY	START		END TIME
RIG TYPE: _____					DATE	TIME	
BIT TYPE	HOLE DIA. (in.)	END DEPTH (ft.)	FLUID TYPE	DRILLING	15 DEC	1500	1700
TBI CORE 120' MAX	7 7/8"	170'	AIR/WATER		17 DEC	730	1200
TBI CORE ROTARY	10 7/8"	40'	WATER	CAVING HOLE Reset rig set surface casing	19 DEC	1300	1700
				CASING	20 DEC	700	1500
					20 DEC	1600	1700
CASING SUMMARY				FILTER PACK	20 DEC	1700	1750
CASING TYPE	DESCRIPTION	DIA. (in.)	END DEPTH (ft.)	23 SACKS			
B	SECT 40 PVC SUMP + CAP	4.0	172.5	SEAL	21 DEC	700	800
S	" " " SCREEN	4.0	170.0	Hydrated 30 SACK 50#			
B	" " " BLANKS	4.0	150.0	BACKFILL	21 DEC	915	1030
P	Protective steel casing	8 7/8	6.0	10 SACKS 100# Portland			
				DEVELOPMENT	23 DEC	905	1145
				OTHER			
				E LOGGING	19 DEC	1200	1300
* P-Protective S-Screen B-Blank O-Open N-None * Depth from Top of Casing							
WELL CONSTRUCTION				WELL DEVELOPMENT			
TYPE CODE	DESCRIPTION	END DEPTH (ft.)		1 1/2" PIPE (channeled) connected to air compressor, first surge produced 75-80 gal. H ₂ O. yield fell off dramatically. at 1030 making little to no water. (see field book pg. 21)			
F	B-12 SILICA SAND	172.0					
S	enviroplug 3/4" bentonite chip	78.0					
B	bentonite cement grout	12.0		COMMENTS: set surface casing 0- 40' because of wash out of the blow sands			
* B - Backfill S - Seal F - Filter Pack * Depth from Ground Surface							

WELL 678 LOGS

BOREHOLE LOG (SOIL)

Page 1 of 10

LOCATION MAP:

SITE ID: AMB-16 LOCATION ID: MW 678

SITE COORDINATES (ft.):

N E

GROUND ELEVATION (ft. MSL): 6985

DRILLING METHOD: ROTARY AIR

DRILLING CONTR.: CHEN NORTHERN / SALAZAR

DATE STARTED: JAN 12, 1989

DATE COMPLETED: JAN 13 (1300) 1989

FIELD REP.: D.R. METZLER

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION ~250' EAST OF EAST-CENTER OF TAILING PILE

SITE CONDITION SLOPE TO THE SOUTH gently, sparsely covered w/ short grass

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	TYPE	ID	BLOWS PER 6 IN.	N VALUE	USCS	VISUAL CLASSIFICATION
0									(MANCOS FM)
5				h	01				claystone, highly weathered, hard, dry, silty ls. tan.
10				h	02				OXIDIZED ZONE
15				h	03				
20				h	04				claystone, mod. weathered, slightly plastic, considerable silt, tanish-gray.
25				h	05				Partially oxidized
30				h	06				

COMMENTS:

SAMPLE TYPE

A - Auger cuttings
S - 2" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. thin-walled Shelby tube

BOREHOLE LOG (SOIL)

Page 2 of 10

LOCATION MAP:

A
B

SITE ID: AMB-16 LOCATION ID: 678

SITE COORDINATES (ft.):

N _____ E _____

GROUND ELEVATION (ft. MSL): _____

DRILLING METHOD: _____

DRILLING CONTR.: _____

DATE STARTED: _____

DATE COMPLETED: _____

FIELD REP.: _____

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION _____

SITE CONDITION _____

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	TYPE	ID	BLOWS PER 6 in.	N VALUE	USCS	VISUAL CLASSIFICATION
									Continued
35									
40									
									SHALE, fissile, v. hard, v. fine, dry, med to DK GRAY. UNOXIDIZED
45									
50									
55									
60									

COMMENTS: _____

SAMPLE TYPE

A - Auger cuttings
S - 2" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. ther-walled Shelby tube

BOREHOLE LOG (SOIL)

LOCATION MAP:

SITE ID: ANB-16 LOCATION ID: 678
SITE COORDINATES (ft.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
DRILLING METHOD: _____
DRILLING CONTR.: _____
DATE STARTED: _____
DATE COMPLETED: _____
FIELD REP.: _____

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION _____
SITE CONDITION _____

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE REMOVED	TYPE	D	BLOWS PER 6 in.	N VALUE	USCS	VISUAL CLASSIFICATION
65									<u>SHALE</u>
70									
75									
80									<u>SHALE</u> , extremely fissile, highly carbonaceous, v. hard, flakey v. DK GRAY
85									
									<u>SHALE</u> Med. gray
90									

COMMENTS: _____

SAMPLE TYPE

A - Auger cuttings
S - 2" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. ther-walled Shelby tube

BOREHOLE LOG (SOIL)

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LOCATION MAP:

SITE ID: AMB-16 LOCATION ID: 678
SITE COORDINATES (ft.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
DRILLING METHOD: _____
DRILLING CONTR.: _____
DATE STARTED: _____
DATE COMPLETED: _____
FIELD REP.: _____

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION _____
SITE CONDITION _____

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	TYPE	ID	BLOWS PER 6 IN.	N VALUE	USCS	VISUAL CLASSIFICATION
95									gradational Sandstone, fine grain, v. well rounded, well sorted, poorly graded, qtz. 5% Lt to med gray
100									
105									
110									
115									Siltstone, v. some v. fine sand, med. to dk gray.
120									

COMMENTS: _____

SAMPLE TYPE

A - Auger cuttings
S - 2" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. thin-walled Shelby tube

BOREHOLE LOG (SOIL)

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LOCATION MAP:

SITE ID: AMB-16 LOCATION ID: 678
SITE COORDINATES (ft.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
DRILLING METHOD: _____
DRILLING CONTR.: _____
DATE STARTED: _____
DATE COMPLETED: _____
FIELD REP.: _____

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION _____
SITE CONDITION _____

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE REMOVED	TYPE	ID	BLOWS PER 6 IN.	N VALUE	USCS	VISUAL CLASSIFICATION
12.5									SANDSTONE, A v. fine grain, well sorted, w/ some silt, dry to slightly moist lt. to med. gray. (Fres. member)
130									
135									
140									
145									SILTSTONE w/ some v. fine sands. Med gray.
150									

COMMENTS:

SAMPLE TYPE

A - Auger cuttings
S - 2" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. thin-walled Shelby tube

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▲

SITE ID: AMB-16 LOCATION ID: 678
SITE COORDINATES (N.): 1
N: E
GROUND ELEVATION (ft. MSL):
DRILLING METHOD:
DRILLING CONTR.:
DATE STARTED:
DATE COMPLETED:
FIELD REP.:

[illegible]

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	TYPE	D	BLOWS PER 6 IN.	N VALUE	USCS	VISUAL CLASSIFICATION
									<u>SILTSTONE</u>
155									
160									
165									
170									
175									
180									

COMMENTS:

SAMPLE TYPE

SAMPLE TYPE
A - Auger cuttings
S - 2" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. ther-walled Shelby tube

BOREHOLE LOG (SOIL)

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LOCATION MAP:

SITE ID: AMB-16 LOCATION ID: 678
SITE COORDINATES (ft.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
DRILLING METHOD: _____
DRILLING CONTR.: _____
DATE STARTED: _____
DATE COMPLETED: _____
FIELD REP.: _____

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION _____

SITE CONDITION _____

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	TYPE	ID	BLOWS PER 6 in.	N VALUE	USCS	VISUAL CLASSIFICATION
									<u>SILTSTONES</u>
<u>185</u>									
<u>190</u>									
<u>195</u>									
<u>200</u>									
<u>205</u>									
<u>210</u>									

COMMENTS: _____

SAMPLE TYPE

A - Auger cuttings
S - 3" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. thin-walled Shelby tube

JACOBS ENGINEERING GROUP INC.
ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS

BOREHOLE LOG (SOIL)

Page 2 of 10

LOCATION MAP:

SITE ID: AMB-16 LOCATION ID: 678
SITE COORDINATES (ft.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
DRILLING METHOD: _____
DRILLING CONTR.: _____
DATE STARTED: _____
DATE COMPLETED: _____
FIELD REP.: _____

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION _____

SITE CONDITION _____

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE REMOVED	TYPE	ID	BLOWS PER 6 in.	N VALUE	USCS	VISUAL CLASSIFICATION
									<u>SILTSTONES</u>
215									
220									
									<u>SANDSTONE (TRES B)</u> v. fine, well sorted Qtz. Ss w/ trace of accessory minerals, glauconite, some silts, no cement v. lt gray
225									
230									
235									
240									

COMMENTS: _____

SAMPLE TYPE

A - Auger cuttings
S - 2" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. thin-walled Shelby tube

BOREHOLE LOG (SOIL)

Page 7 of 10

LOCATION MAP:

SITE ID: AMB-16 LOCATION ID: 678
SITE COORDINATES (ft.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
DRILLING METHOD: _____
DRILLING CONTR.: _____
DATE STARTED: _____
DATE COMPLETED: _____
FIELD REP.: _____

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION _____

SITE CONDITION _____

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	TYPE	ID	BLOWS PER 6 in.	N VALUE	USCS	VISUAL CLASSIFICATION
									<u>SANDSTONE</u> (continued)
<u>245</u>									<u>DRY</u>
<u>250</u>									
<u>255</u>									
<u>260</u>									
<u>265</u>									<u>CLAYSTONE/SILT</u> with considerable silt Med. to DK GRAY
<u>270</u>									T.D. 262.0' at 1300

COMMENTS: _____

SAMPLE TYPE

A - Auger cuttings
S - 3" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. thin-walled Shelby tube

WELL COMPLETION RECORD

SITE ID: AMB-16 LOCATION ID: MW-678 DATE INSTALLED: 1/14/89

APPROX. SITE COORDINATES: (FT.) N _____ E _____

OPEN AREA PER LINEAL FT. (IN²/FT.) _____

FORMATION OF COMPLETION: MANCOS FM. TIGGS HENNAWDS TS

FIELD REP.: D.R. METZLER DRILLER: CHEN-NORTHERN

COMMENTS: LOW WORKED ON WELL

JE JACOBS ENGINEERING GROUP INC.
ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS
BOREHOLE/WELL CONSTRUCTION LOG

SITE ID: ANB-16 LOCATION ID: 678 FIELD REP: D.R. METZGER

APPROX. SITE COORDINATES (FT.): N_____E_____

GROUND ELEVATION (FT. MSL): 6985 COMPLETION DATE: 1-13-89

BOREHOLE SUMMARY				CONSTRUCTION TIME LOG				
DRILLER: <u>JEN NORTHEAN / SALAJA</u>				ACTIVITY	START		END TIME	
RIG TYPE: _____					DATE	TIME		
BIT TYPE	HOLE DIA. (in.)	END DEPTH (ft.)	FLUID TYPE	DRILLING				
TN1 CONT	10 7/8	40.0	A1X2	(surface casing) 40'	1-12-89	700	1700	
" "	7 7/8	262.0	A1XL		1-13-89	630	1250	
					1-14-89	630		
				CASING	1-14-89	1100	1230	
CASING SUMMARY				FILTER PACK	1-14-89	1230	100	
CASING TYPE*	DESCRIPTION		DIA. (in.)	END DEPTH (ft.)	SEAL	1-14-89	100	330
B	SCH 40 FLUSH SUMP+CAP		4.0	262.5	BACKFILL	1-15-89	800	1000
S	" " " SCREEN		4.0	260.0	DEVELOPMENT	1-26-89	1330	1645
B	" " " BLANK		4.0	240.0		1-27-89	700	730
P	STEEL PROTECTIVE CASING		8 5/8	6.0	OTHER	1-27-89	1600	
					✓ after development, 244.6			
* P-Protective S-Screen B-Blank O-Open N=None								
† Depth from Top of Casing								
WELL CONSTRUCTION				WELL DEVELOPMENT				
TYPE CODE*	DESCRIPTION		END DEPTH (ft.)	Blowing w/ min 80 psi 750 cfm a large slug of water initially blow out of hole, followed a small volume of continuous water.				
F	8-12 SILICA SAND		260.0					
S	3/4" bentonite chip		217.0					
B	bentonite - cement grout		10.0					
				COMMENTS: could be a good producer for the site.				
● B - Backfill S - Seal F - Filter Pack								
● Depth from Ground Surface								

WELL 679 LOGS

BOREHOLE LOG (SOIL)

Page 1 of 11

LOCATION MAP:

SITE ID: AMB-16 LOCATION ID: 679
SITE COORDINATES (ft.):
N NK E NK
GROUND ELEVATION (ft. MSL): ~ 700.5
DRILLING METHOD: ROTARY AIR
DRILLING CONTR.: CHEN NORTHERN / SALAZAR
DATE STARTED: 9 JAN 89
DATE COMPLETED: _____
FIELD REP.: D.R. HETZLER

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)
JAN 10	A. T. 3 D.	338'

LOCATION DESCRIPTION N 04° E 365' SOUTH of ANN LEE SHAFT, NW of tailings pile
SITE CONDITION Rel. Flat, covered sparsely w/ chamise, thistle, etc. some gravel

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	TYPE	D	BLOWS PER 6 in.	N VALUE	USCS	VISUAL CLASSIFICATION
0									NO TOP SOIL
									<u>SILTY SANDS</u> (Q _{u1})
5									fine to v. fine qtz sands well sorted, w/ considerable silt and trace of clay Non plastic. (Wind Born)
10									
15									(MANCOS FM) OXIDIZED CLAYSTONE
20									Med to high P _i Brownish-gray fractures filled w/ calcite and (possibly CaSO ₄)
25									Zone of enrichment: heavily limonitic, soft plastic fecp clays. high P _i --- Reddish-yellow clay
30									

COMMENTS:

SAMPLE TYPE-
A - Auger cuttings
S - 2" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. ther-waxed Shelby tube

JACOBS ENGINEERING GROUP INC.
ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS

BOREHOLE LOG (SOIL)

Page 2 of 11

LOCATION MAP:

SITE ID: AMB-16 LOCATION ID: MW-679

SITE COORDINATES (ft.):

N _____ E _____

GROUND ELEVATION (ft. MSL): _____

DRILLING METHOD: _____

DRILLING CONTR.: _____

DATE STARTED: _____

DATE COMPLETED: _____

FIELD REP.: _____

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION _____

SITE CONDITION _____

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	TYPE	ID	BLOWS PER 6 in.	N VALUE	USCS	VISUAL CLASSIFICATION
35									(MANCOS FMI) UNOXIDIZED SHALE, fissile to a lessor extent, (siltstone / mudstone) highly carbona- ceous, w/ abundant Calcite as a matrix and fracture filling. Med to DK GRAY
40									
45									
50									
55									
60									

COMMENTS: _____

SAMPLE TYPE

A - Auger cuttings
S - 3" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. thin-walled Shelby tube

BOREHOLE LOG (SOIL)

Page 3 of 11

LOCATION MAP:

SITE ID: AWB-16 LOCATION ID: HW-679
SITE COORDINATES (ft.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
DRILLING METHOD: _____
DRILLING CONTR.: _____
DATE STARTED: _____
DATE COMPLETED: _____
FIELD REP.: _____

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION _____

SITE CONDITION _____

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	TYPE	ID	BLOWS PER 6 in.	N VALUE	USCS	VISUAL CLASSIFICATION
									SHALE (MANCOS FM) (continued)
65									
70									
75									
80									
85									
90									

COMMENTS: _____

SAMPLE TYPE

A - Auger cuttings
S - 2" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. ther-walled Shelby tube

JACOBS ENGINEERING GROUP INC.
ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS

BOREHOLE LOG (SOIL)

Page 4 of 11

LOCATION MAP:

SITE ID: AMB-16 LOCATION ID: MW-679
SITE COORDINATES (ft.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
DRILLING METHOD: _____
DRILLING CONTR.: _____
DATE STARTED: _____
DATE COMPLETED: _____
FIELD REP.: _____

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION _____

SITE CONDITION _____

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE REMOVED	TYPE	ID	BLOWS PER 6 in.	N VALUE	USCS	VISUAL CLASSIFICATION
95									(MANCOS FM) SILT (CONTINUED)
100									
105									
110									
115									
120									grades into a sandy silt

COMMENTS: _____

SAMPLE TYPE

A - Auger cuttings
S - 2" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. ther-walled Shelby tube

BOREHOLE LOG (SOIL)

Page 5 of 11

LOCATION MAP:

SITE ID: AMB-16 LOCATION ID: KW-679
SITE COORDINATES (ft.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
DRILLING METHOD: _____
DRILLING CONTR.: _____
DATE STARTED: _____
DATE COMPLETED: _____
FIELD REP.: _____

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION _____
SITE CONDITION _____

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	TYPE	ID	BLOWS PER 6 in.	N VALUE	USCS	VISUAL CLASSIFICATION
125									↓ (MANCOS FM) Tres Hermanos c? <u>SANDSTONE</u> : a predominantly fine gr. ss w/ some v. fine and silt fraction, v. well sorted, (poorly graded), sub round to round Qtz. grain ss Lt grey. (carbonate matrix) grading downward ↓, becomes finer, v. fine gr. Qtz ss, Med. gray
130									grades into a <u>sandy siltstone</u> , med. well cemented, mostly Qtz. grains in a silt/shale matrix, trace of glauconite or chlorite. DK GRAY
135									grades into a <u>siltstone</u>
140									<u>Sandy siltstone</u> , w/ some v. fine Qtz. grains, Med gray
145									<u>Sandstone</u> , v. fine to fine, well sorted (poorly graded) well rounded sandstone, Lt GRAY (NOTE: slightly damp) (Tres C. Member)
150									

COMMENTS: _____

SAMPLE TYPE
A - Auger cuttings
S - 3" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. ther-walled Shelby tube

BOREHOLE LOG (SOIL)

LOCATION MAP:

SITE ID: AYB-16 LOCATION ID: 44W-679

SITE COORDINATES (ft.):

N _____ **E** _____

GROUND ELEVATION (ft. MSL): _____

DRILLING METHOD: _____

DRILLING CONTR.:

DATE STARTED: _____

DATE COMPLETED: _____

FIELD REP.: _____

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)
------	------	-------------

TIME

DEPTH (ft.)

LOCATION DESCRIPTION

SITE CONDITION

[illegible]

COMMENTS:

SAMPLE TYPE

A - Auger cuttings
S - 3" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. thin-walled Shelby tube

BOREHOLE LOG (SOIL)

Page 2 of 11

LOCATION MAP:

SITE ID: AMB-16 LOCATION ID: MW-679
SITE COORDINATES (ft.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
DRILLING METHOD: _____
DRILLING CONTR.: _____
DATE STARTED: _____
DATE COMPLETED: _____
FIELD REP.: _____

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION _____

SITE CONDITION _____

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	TYPE	ID	BLOWS PER 6 IN.	Z VALUE	USCS	VISUAL CLASSIFICATION
180									SLATSTONE continuous
185									
190									
195									
200									resume drilling Shale, gray, fissile, bl grey to black
205									
210									

COMMENTS: _____

SAMPLE TYPE
A - Auger cuttings
S - 2" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. thin-walled Shelby tube

BOREHOLE LOG (SOIL)

LOCATION MAP:

SITE ID: AHB-16 LOCATION ID: MW-679
SITE COORDINATES (ft.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
DRILLING METHOD: _____
DRILLING CONTR.: _____
DATE STARTED: _____
DATE COMPLETED: _____
FIELD REP.: _____

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION _____

SITE CONDITION _____

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	TYPE	ID	BLOWS PER 6 in.	N VALUE	USCS	VISUAL CLASSIFICATION
210									
215									
220									
225									
230									
235									
240									
245									
250									
255									
260									
265									
270									
275									
280									
285									
290									
295									
300									
305									
310									
315									
320									
325									
330									
335									
340									
345									
350									
355									
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365									
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725									
730									
735									
740									
745									
750									
755									
760									
765									
770									
775									
780									
785									
790									
795									
800									
805									
810									
815									
820									
825									
830									
835									
840									
845									
850									
855									
860									
865									
870									
875									
880									
885									
890									
895									
900									
905									
910									
915									
920									
925									
930									
935									
940									
945									
950									
955									
960									
965									
970									
975									
980									
985									
990									
995									
1000									

less fissile - becoming silty

Siltstone, minor mudstone,
dk grey, dry

COMMENTS:

SAMPLE TYPE
A - Auger Cuttings
S - 2" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. thin-walled Shelby Tube

BOREHOLE LOG (SOIL)

Page 9 of 11

LOCATION MAP:

123

SITE ID: AMB 16 LOCATION ID: HW-679
SITE COORDINATES (ft.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
DRILLING METHOD: _____
DRILLING CONTR.: _____
DATE STARTED: _____
DATE COMPLETED: _____
FIELD REP.: _____

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION _____

SITE CONDITION _____

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	TYPE	ID	BLOWS PER 6 in.	N VALUE	USCS	VISUAL CLASSIFICATION
240									
245									
250						252			Sandstone, silty fine to v. fine gr., grey, sl. damp. (Tres b member)
260						259			Siltstone, trace fine sand, lt. grey, non-fissile, dry
270									Sandstone / Siltstone, sand is fine to v. fine gr. grey, dry (Tres b member)
280						284			
290									Siltstone, grey to black non-fissile, dry.

COMMENTS: _____

SAMPLE TYPE

A - Auger cuttings
S - 2" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. ther-walled Shelby tube

BOREHOLE LOG (SOIL)

Page 10 of 11

LOCATION MAP:

SITE ID: AMB-116 LOCATION ID: 679
SITE COORDINATES (ft.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
DRILLING METHOD: _____
DRILLING CONTR.: _____
DATE STARTED: _____
DATE COMPLETED: _____
FIELD REP.: _____

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION _____
SITE CONDITION _____

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	TYPE	ID	BLOWS PER 6 in.	N VALUE	USCS	VISUAL CLASSIFICATION
<u>290</u>									
<u>300</u>						<u>302</u>			
<u>310</u>									
<u>320</u>									
<u>330</u>									
<u>340</u>						<u>338</u>			
<u>350</u>						<u>346</u>			

Shale, silty, fissile, loggy
to black, sl. damp

(BASE OF MARKS: TRES HERMANOS A.)
Sandstone, some silty fine
to v. fine gr., grey, moist
SHALE/SILTSTONE w/ some thin sands
DK GRAY

COMMENTS: S₂ at 328 is marking water.

SAMPLE TYPE
A - Auger cuttings
S - 2" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. thin-walled Shelby tube

BOREHOLE LOG (SOIL)

Page 11 of 11

LOCATION MAP:

AN

BITE ID: AMB-16 **LOCATION ID:** NW-679

SITE COORDINATES (ft.):

N NR m NR

GROUND ELEVATION (ft. MSL): ~ 6177.

DRILLING METHOD: ROTARY AIR

DRILLING CONTR.: CITEN NORTHERN / SALAZAR

DATE STARTED: 1-9-89

DATE COMPLETED: 62-11-1

FIELD REP.: DIR. METLER

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)
1-11-89	AT TIME of Drilling	338

LOCATION DESCRIPTION

SITE CONDITION

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	TYPE	ID	BLOWS PER 6 in.	N VALUE	USCS	VISUAL CLASSIFICATION
350									SILTCLAY/SILTSTONE w/ some fine sands
355									<u>BANDSTONE</u> (Tres A member) fine gr. Gtz S ₂ w/ well sorted (poorly graded) well rounded grains. trace of glauconitic minerals & 1%, well cemented in places. varies from lt to med. gray.
360									
365									T.D. Per hole 1-10-60 @ 362.0'

COMMENTS:

SAMPLE TYPE

SAMPLE TYPE
A - Auger cuttings
S - 2" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. thermal-walled Shelby tube

REG-AL-ENG-28 (4/85)

WELL COMPLETION RECORD

SITE ID: AMB LOCATION ID: 679 DATE INSTALLED: JAN 11, 89

APPROX. SITE COORDINATES: (FT.) N _____ E _____

OPEN AREA PER LINEAL FT. (IN²/FT.) 8² - 4.5²

FORMATION OF COMPLETION: Mancos Shale (Tres Hermanos A)

FIELD REP.: L. Phyllis / D.R. METZLER DRILLER: Joe Salazar Drilling

COMMENTS: forming when to 3620' T.D. with 1 1/2' of
CAVE.

JE JACOBS ENGINEERING GROUP INC.
ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS

BOREHOLE/WELL CONSTRUCTION LOG

SITE ID: AMB-16 LOCATION ID: MW 679 FIELD REP: D.R. METZLER
APPROX. SITE COORDINATES (FT.): N NK E NK
GROUND ELEVATION (FT. MSL): ~ 6777 COMPLETION DATE: 1-11-89

BOREHOLE SUMMARY				CONSTRUCTION TIME LOG			
DRILLER: <u>CHEN NORTHERN / SALAZAR</u> RIG TYPE: <u>GARDNER DENVER 15</u>				ACTIVITY	START		END TIME
					DATE	TIME	
BIT TYPE	HOLE DIA. (in.)	END DEPTH (ft.)	FLUID TYPE				
TRI CONE	10 7/8	73.0	AIR/MIST	DRILLING	JAN 8	1515	1620
"	7 7/8	360.0	AIR		9	630	1830
					10	1245	1800
				surface casing	10	830	1200
					11	645	830
				CASING	JAN 11	1300	1440
CASING SUMMARY				FILTER PACK	JAN 12	1440	1500
CASING TYPE*	DESCRIPTION	DIA. (in.)	END DEPTH (ft.)	10 SACKS			
B	SCH 40 FLUSH SUMP + CAP	4.0	362.5	SEAL 123 SACKS	JAN 12	1500	1530
S	" " " SCREEN	4.0	360.0	(Pulld surface casing)	JAN 12	1730	1607
B	" " " BLANKS	4.0	340.0	BACKFILL	JAN 15	1000	1200
P	Protective Steel	8 7/8	6.0				
				DEVELOPMENT	JAN 26	730	1200
				OTHER			
				Geo Phy	JAN 11	845	
				E./N. LOGS			
* P-Protective S-Screen B-Blank O-Open N-None * Depth from Top of Casing							
WELL CONSTRUCTION				WELL DEVELOPMENT			
TYPE CODE*	DESCRIPTION	END DEPTH (ft.)					
F	8-12 SILICA SAND	360.5	using 750 CFM 7 80 psi, the bottom of dev. pipe situated 2 4' off of bottom cap. No appreciable water was produced. Not a dry hole, but considerably less than 1 gpm.				
S	ENVIROplug bentonite chip	317.5					
B	bentonite - cement grout	10.0					
			COMMENTS: screen placed at 358 to 338 interval; from 6d. surface.				
* B - Backfill S - Seal F - Filter Pack * Depth from Ground Surface							

WELL 680 LOGS

BOREHOLE LOG (SOIL)

Page 1 of 12

LOCATION MAP:

SITE ID: AMB-16 LOCATION ID: MW-680
SITE COORDINATES (ft.):
N NK E NK
GROUND ELEVATION (ft. MSL): 6965.0
DRILLING METHOD: ROTARY AIR
DRILLING CONTR.: CHEN-NORTHERN/SALAZAR
DATE STARTED: 1-3-89
DATE COMPLETED: _____
FIELD REP.: D.R. NETZLER

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION 2350' SW of the SW cor. of existing tailings pile
SITE CONDITION FLAT, close to power lines (75'), sparse grasses, sage, chamisa

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	TYPE	ID	BLOWS PER 6 in.	N VALUE	USCS	VISUAL CLASSIFICATION
0						NK	NK	SM	<u>SILTY SAND</u> fine to med. sands with some silt, well rounded grains, at 3 with considerable lithic clasts, v loose, void of organic matter, dry. cohesionless, Brownish tan (Blow sand)
5				G	01				
10				G	02			SM	<u>Sandy silt</u> fine to med. sands, w/ considerable silt, cohesionless, v. dry. rose brown (Blow sand)
15				G	03				
20				G	04			SP	<u>Sands</u> mostly med. grain, sub to well rounded sands with minor silt, pred. at 3. w/ surface coating of Fe ₂ O ₃ , loose dry. orange-brown (mod. sorted) (QAL)
25				G	05				
30				G	06				

COMMENTS: Rig broke down at 1410

SAMPLE TYPE

A - Auger cuttings
S - 2" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. thin-walled Shelby tube

JACOBS ENGINEERING GROUP INC.
ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS

BOREHOLE LOG (SOIL)

Page 2 of 12

LOCATION MAP:

SITE ID: AMB-16 LOCATION ID: MW-680
SITE COORDINATES (ft.):
N NK E NK
GROUND ELEVATION (ft. MSL): ~ 6965.0
DRILLING METHOD: ROTARY AIR
DRILLING CONTR.: CHEN NORTHEAN/SALAZAR
DATE STARTED: 1-3-89
DATE COMPLETED: _____
FIELD REP.: D.R. METZLER

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION _____
SITE CONDITION _____

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	TYPE	ID	BLOWS PER 6 in.	N VALUE	USCS	VISUAL CLASSIFICATION
35				6	07			SM	sandy silt with a trace of clay, slightly moist, with fine to v fine sand grains, non plastic lt. brown. (Gal)
40				6	08				
45				6	09				
50				6	10				
55				6	11				
60				6	12				contact (MANCOS FH) claystone highly weathered, brownish-gray

COMMENTS: Partially saturated at 59-60'

SAMPLE TYPE
A - Auger cuttings
S - 3" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. ther-waxed Shelby tube

JACOBS ENGINEERING GROUP INC.
ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS

BOREHOLE LOG (SOIL)

Page 3 of 12

LOCATION MAP:

SITE ID: AMB-16 LOCATION ID: 680
SITE COORDINATES (ft.):
N NK E NK
GROUND ELEVATION (ft. MSL): ~6965.0
DRILLING METHOD: ROTARY AIR
DRILLING CONTR.: CHEN-N. / SMART
DATE STARTED: 1-3-89
DATE COMPLETED: _____
FIELD REP.: _____

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION _____

SITE CONDITION _____

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	TYPE	ID	BLOWS PER 6 IN.	N VALUE	USCS	VISUAL CLASSIFICATION
65				6	13				<u>MANCOS FM</u> CLAYSTONE / SILTSTONE, moderately weathered / Brownish - gray.
70				6	14				<u>MANCOS FM</u> CLAYSTONE / SILTSTONE NON OXIDIZED highly calcareous highly carbonaceous homogenous - med. to dk gray.
75				6	15				
80				6	16				
85				6	17				
90				6	18				

COMMENTS: Unit cased to 72' with 8 5/8" temp.
surface casing

SAMPLE TYPE
A - Auger cuttings
S - 2" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. thin-walled Shelby tube

JACOBS ENGINEERING GROUP INC.

ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS

BOREHOLE LOG (SOIL)Page 4 of 12**LOCATION MAP:**

SITE ID: AMB-16 LOCATION ID: 680
SITE COORDINATES (ft.):
N NK E NK
GROUND ELEVATION (ft. MSL): 2 6965.0
DRILLING METHOD: ROTARY AIR
DRILLING CONTR.: CHEN-N / SALT
DATE STARTED: 1-3-87
DATE COMPLETED: _____
FIELD REP.: _____

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION**SITE CONDITION**

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	TYPE	ID	BLOWS PER 6 in.	N VALUE	USCS	VISUAL CLASSIFICATION
									MANCOS FM UNOXIDIZED CLAYSTONE/SILTSTONE grey, MASSIVE
95				h	19				
100				h	20				
105				h	21				
110				h	22				
115				h	23				
120				h	24				
									Contact at 120.0'

COMMENTS:**SAMPLE TYPE**

A - Auger cuttings
S - 3" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. thin-walled Shelby tube

JACOBS ENGINEERING GROUP INC.
ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS

BOREHOLE LOG (SOIL)

Page 5 of 12

LOCATION MAP:

SITE ID: ANB-16 LOCATION ID: 680
SITE COORDINATES (ft.):
N NK E NK
GROUND ELEVATION (ft. MSL): 26965.0
DRILLING METHOD: RECTANG AIR
DRILLING CONTR.: CHEN-N / SALAZAR
DATE STARTED: 1-3-89
DATE COMPLETED: _____
FIELD REP.: _____

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION _____
SITE CONDITION _____

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE REMOVED	TYPE	ID	BLOWS PER 6 in.	N VALUE	USCS	VISUAL CLASSIFICATION
125				h	25				<u>MANCUS FM.</u> <u>SILTY SANDSTONE</u> predominantly qtz. gr. of fine gr. size, sub rounded, very well sorted, calcareous, lt grey <u>NOTE: THIS PACIES INTERVAL</u> <u>COULD WELL BE A SANDY</u> <u>SILTSTONE</u> V Neutrow Kick at 150'
130				h	26				
135				h	27				
140				h	28				
145				h	29				
150				h	30				

COMMENTS: _____

SAMPLE TYPE

A - Auger cuttings
S - 3" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. thermal Shelby tube

JACOBS ENGINEERING GROUP INC.
ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS

BOREHOLE LOG (SOIL)

Page 6 of 12

LOCATION MAP:

SITE ID: AMB-16 LOCATION ID: 680
SITE COORDINATES (ft.):
N NK E NK
GROUND ELEVATION (ft. MSL): 6965
DRILLING METHOD: ROTARY AIR
DRILLING CONTR.: CHEN N / SALAZAR
DATE STARTED: 1-3-87
DATE COMPLETED: _____
FIELD REP.: _____

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION _____
SITE CONDITION _____

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	TYPE	ID	BLOWS PER 6 in.	N VALUE	USCS	VISUAL CLASSIFICATION
155				h	31				SANDSTONE GRADUATES TO V. FINE. with considerable SILT. Lt. gray (Tres b member)
160				h	32				
165				h	33				
170				h	34				grades into a med. gray SILTSTONE w/ some v. fine sands.
175				h	35				
180				h	40				grades into a claystone/ shale, highly carbonaceous DK gray

COMMENTS: _____

SAMPLE TYPE

A - Auger cuttings
S - 2" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. thermal-shielded Shelby tube

JACOBS ENGINEERING GROUP INC.
ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS

BOREHOLE LOG (SOIL)

Page 7 of 12

LOCATION MAP:

SITE ID: ANB-16 LOCATION ID: 680
SITE COORDINATES (ft.):
N NK E NK
GROUND ELEVATION (ft. MSL): 6965
DRILLING METHOD: ROTARY AIR
DRILLING CONTR.: CHEN AL / SALAZAR
DATE STARTED: _____
DATE COMPLETED: 1-3-87
FIELD REP.: _____

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION _____
SITE CONDITION _____

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE REMOVED	TYPE	D	BLOWS PER 6 in.	N VALUE	USCS	VISUAL CLASSIFICATION
185				G	41				MANCOS FM. CLAYSTONE/SILT highly carbonaceous Dk. gray
190				G	42				
195				G	43				
200				G	44				
205				G	45				
210				G	46				

COMMENTS:

SAMPLE TYPE

A - Auger cuttings
S - 3" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. thermal-shielded Shelby tube

JACOBS ENGINEERING GROUP INC.
ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS

BOREHOLE LOG (SOIL)

Page 2 of 12

LOCATION MAP:

SITE ID: AMB-16 LOCATION ID: 680
SITE COORDINATES (ft.):
N NK E NK
GROUND ELEVATION (ft. MSL): 6265
DRILLING METHOD: ROTARY AIR
DRILLING CONTR.: CHEN/N. / SALAZAR
DATE STARTED: _____
DATE COMPLETED: 1-3-89
FIELD REP.: _____

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION _____
SITE CONDITION _____

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	TYPE	ID	BLOWS PER 6 in.	N VALUE	USCS	VISUAL CLASSIFICATION
215				b	47				gradational contact (MANCOS FM.) SILTSTONE: v. some v. fine, well sorted Qtz. grains. DK. GRAY to med. GRAY
220				b	48				gradational contact (MANCOS FM.) (Th-A member) SANDSTONE: v. fine grain, well rounded, well sorted glauconitic- Qtz. sand. V. Lt. GRAY NOTE: MOD. calcareous cementation.
225				b	49				
230				b	50				grades into SILTSTONE w/ varying amounts of shaley lenses and minor amounts of v. fine sands. Lt to DK GRAY
235				b	51				
240				b	52				

COMMENTS: _____

SAMPLE TYPE

A - Auger cuttings
S - 3" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. ther-walled Shelby tube

JACOBS ENGINEERING GROUP INC.
ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS

BOREHOLE LOG (SOIL)

Page 9 of 12

LOCATION MAP:

SITE ID: AMB-16 LOCATION ID: MW 680
SITE COORDINATES (ft.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
DRILLING METHOD: _____
DRILLING CONTR.: _____
DATE STARTED: _____
DATE COMPLETED: _____
FIELD REP.: D. R. METTLER

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION _____

SITE CONDITION _____

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	TYPE	ID	BLOWS PER 6 in.	N VALUE	USCS	VISUAL CLASSIFICATION
									MANICUS FM
245				h	53				SILTSTONES w/ varying amounts of shaly lenses and some fine sands
250				h	54				
255				h	55				
260				h	56				
265				h	57				
270				h	58				

COMMENTS: _____

SAMPLE TYPE

A - Auger cuttings
S - 3" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. ther-walled Shelby tube

BOREHOLE LOG (SOIL)

Page 10 of 12

LOCATION MAP:

SITE ID: AWR-16 LOCATION ID: 680
SITE COORDINATES (ft.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
DRILLING METHOD: _____
DRILLING CONTR.: _____
DATE STARTED: _____
DATE COMPLETED: _____
FIELD REP.: D. R. HILTZER

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION _____

SITE CONDITION _____

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	TYPE	ID	BLOWS PER 6 in.	N VALUE	USCS	VISUAL CLASSIFICATION
									(MANCOS PM)
									SILTSTONES:
275				h	59				
280				h	60				
285				h	61				
290				h	62				
									(MANCOS PM)
									Sandstone: v. fine to gr. well sorted
									lt gray
295				h	63				SILTSTONE: w/ some shaly facies.
300				h	64				

During Geophys.
logging
water level
dropping

COMMENTS:

SAMPLE TYPE

A - Auger cuttings
S - 2" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. thin-walled Shelby tube

BOREHOLE LOG (SOIL)

Page 11 of 12

LOCATION MAP:

SITE ID: AMB-16 LOCATION ID: 680
SITE COORDINATES (ft.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
DRILLING METHOD: _____
DRILLING CONTR.: _____
DATE STARTED: _____
DATE COMPLETED: _____
FIELD REP.: _____

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION _____
SITE CONDITION _____

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	TYPE	ID	BLOWS PER 6 in.	N VALUE	USCS	VISUAL CLASSIFICATION
									(MANCOS FN) SILTCLAY:
305				h	65				gradational contact (DAKOTA FN) ↓ SANDSTONE: # fine grain v. well sorted, well round. / qtz. matrix.
310				h	66				
315				h	67				
320				h	68				
325				h	69				
330				h	70				

Handwritten notes on log:
- 600 E 109 MATCH (with arrow pointing to depth 305)
- Neutron (with arrow pointing to depth 305)
- HAD TO ADD WATER (with arrow pointing to depth 320)

COMMENTS: _____

SAMPLE TYPE
A - Auger cuttings
S - 2" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. thermalized Shelby tube

JACOBS ENGINEERING GROUP INC.
ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS

BOREHOLE LOG (SOIL)

Page 12 of 12

LOCATION MAP:

SITE ID: ANB-16 LOCATION ID: 680
SITE COORDINATES (ft.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
DRILLING METHOD: _____
DRILLING CONTR.: _____
DATE STARTED: _____
DATE COMPLETED: 7-6-89
FIELD REP.: D.D. HETZLER

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION _____
SITE CONDITION _____

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	TYPE	ID	BLOWS PER 6 in.	N VALUE	USCS	VISUAL CLASSIFICATION
	 	 	 	 	 				<u>SANDSTONE</u> <u>continuous</u>
<u>335</u>	 	 	 	<u>6</u>	<u>71</u>				
	 	 	 						
<u>340</u>	 	 	 	<u>6</u>	<u>72</u>				<u>FM. MAKING WATER</u>
	 	 	 						
<u>345</u>	 	 	 	<u>6</u>	<u>73</u>				<u>contact</u> <u>lignite? highly organic shale?</u>
	 	 	 						
<u>350</u>	 	 	 	<u>6</u>	<u>74</u>				<u>SANDSTONE: ? fine gr. silty arenite</u> <u>strongly cemented / mixed</u> <u>w/ the lignite - organic shale.</u>
	 	 	 						
<u>355</u>	 	 	 						<u>T.D. 12' 15"</u>
	 	 	 						
<u>360</u>	 	 	 						

COMMENTS: _____

SAMPLE TYPE

A - Auger cuttings
S - 2" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. thin-walled Shelby tube

JACOBS ENGINEERING GROUP INC.
ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS

WELL COMPLETION RECORD

SITE ID: AMB-16 LOCATION ID: 680 DATE INSTALLED: 1/7/89
APPROX. SITE COORDINATES: (FT.) N NK E NK
OPEN AREA PER LINEAL FT. (IN²/FT.) (8" - 4")
FORMATION OF COMPLETION: Kd DAKOTA SS
FIELD REP.: J MacLennan DRILLER: Chen Northern Salazar

COMMENTS: WELL ANNULUS filled w/ silica from 333.5' to 350.0'

JE JACOBS ENGINEERING GROUP INC.
ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS
BOREHOLE/WELL CONSTRUCTION LOG

SITE ID: AMB-16 LOCATION ID: 680 FIELD REP: D.R. METZLER
 APPROX. SITE COORDINATES (FT.): N NK E NK
 GROUND ELEVATION (FT. MSL): 6965.0 COMPLETION DATE: JAN 8, 1989

BOREHOLE SUMMARY				CONSTRUCTION TIME LOG				
DRILLER: <u>CHEN-NORTHERN/SALAZAR</u>				ACTIVITY	START		END TIME	
RIG TYPE: <u>GARNER DENVER 15</u>					DATE	TIME		
BIT TYPE	HOLE DIA. (in.)	END DEPTH (ft.)	FLUID TYPE	DRILLING	3 JAN 89	13 30	14 15	
TRI CONE	10 7/8	73.0	AIR	BROKE DOWN	"	14 15		
TRI CONE	7 7/8	350.0	AIR	UP	"	16 00	17 00	
					4 JAN 89	7 30	16 45	
				CASING	5 JAN 89	8 05	17 00	
					6 JAN 89	7 15	12 15	
CASING SUMMARY				FILTER PACK	7 JAN 89	11 30	12 30	
CASING TYPE*	DESCRIPTION		DIA. (in.)	END DEPTH (ft.)	20 sacks	7 JAN 89	13 00	14 10
O	8-12 silica only		-	350.0	SEAL	7 JAN 89	14 10	15 00
B	SCH 40 SUMP + CAP		4.0	332.5	surface casing removal	7 JAN 89	15 00	16 30 @ 10
S	" " screen PVC		4.0	330.0	seal (bentonite)	7 JAN 89	7 00	8 30
B	" " Flush blanks		4.0	310.0	BACKFILL	8 JAN 89	12 45	16 00
P	STEEL Protective casing		8 5/8	6.0	DEVELOPMENT	25 JAN 89		
					OTHER			

* P-Protective S-Screen B-Blank O-Open N-None
 † Depth from Top of Casing

WELL CONSTRUCTION			WELL DEVELOPMENT	
TYPE CODE*	DESCRIPTION	END DEPTH (ft.)	SET UP RIG before lunch, blew for 15 minutes prior to lunch. Some water started up 12 45 by blowing w/ Air. At 15 min, then recharging for 15 min. well began producing wire water as time went on. at 16 00 the water was clear, producing 22 gpm	
B/F	sand pack filter	350.0		
S	bentonite 3/4" chip	296.0		
B	bentonite cement grout	10.0		
			COMMENTS: <u>Breakdown = Broken PTD</u>	
			<u>Geophy E logs; Huctat</u>	
			<u>JAN 6, 1989 : 1300 - 1800</u>	
			<u>E logs show Tres her.</u>	

① B - Backfill S - Seal F - Filter Pack

② Depth from Ground Surface

WELL 681 LOGS

JACOBS ENGINEERING GROUP INC.

ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS

BOREHOLE LOG (SOIL)Page 1 of 8**LOCATION MAP:**

SITE ID: AMB-16 LOCATION ID: 681 OPT.
SITE COORDINATES (ft.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
DRILLING METHOD: ROTARY AIR
DRILLING CONTR.: CHEN NUNDTMAN / SALAZAR
DATE STARTED: 1-23-88
DATE COMPLETED: _____
FIELD REP.: DON MITZLER

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)
1-23-88	15:30	205'

LOCATION DESCRIPTION N 45° W 200' from 677
SITE CONDITION FLAT: SPARSLEY VEGETATED W/ BUNCH GRASS & CREOSOTE

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	TYPE	ID	BLOWS PER 6 in.	N VALUE	USCS	VISUAL CLASSIFICATION
0									
5					01			SM	SILTY SANDS (Qa1) Eolian derived fine sands, DRY, mod. graded, angular grains tan
10					02				
15					03				Becomes darker
20					04				
25					05				(MANCOS FM) OXIDIZED SILTSTONE/CLAYSTONE highly weathered some limonite present dry, lt. tan
30					06				

COMMENTS:**SAMPLE TYPE**

A - Auger cuttings
S - 2" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. thin-walled Shelby tube

JACOBS ENGINEERING GROUP INC.
ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS

BOREHOLE LOG (SOIL)

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LOCATION MAP:

SITE ID: AMB-76 LOCATION ID: 681 061
SITE COORDINATES (ft.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
DRILLING METHOD: _____
DRILLING CONTR.: _____
DATE STARTED: _____
DATE COMPLETED: _____
FIELD REP.: _____

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION SITE CONDITION

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	TYPE	D	BLOWS PER 6 in.	N VALUE	USCS	VISUAL CLASSIFICATION
35					07				(MANCOS FM) OXIDIZED SILTSTONE / CLAYSTONE TAN
40					08				
45					09				fossiferous, mollusk molds w/ casts Brownish-tan
50					10				
55					11				Becomes more plastic, less oxidized, Brownish-gray
60					12				

COMMENTS:

SAMPLE TYPE

A - Auger cuttings
S - 3" O.D. 138" L.D. drive sample
U - 3" O.D. 242" L.D. tube sample
T - 3" O.D. ther-walled Shelby tube

BOREHOLE LOG (SOIL)

LOCATION MAP:

SITE ID: AMB-16 LOCATION ID: 681 OPT.
SITE COORDINATES (ft.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
DRILLING METHOD: _____
DRILLING CONTR.: _____
DATE STARTED: _____
DATE COMPLETED: _____
FIELD REP.: _____

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION

SITE CONDITION

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	TYPE	D	BLOWS PER 6 IN.	N VALUE	USCS	VISUAL CLASSIFICATION
65					13				(MANCOS FM) UNOXIDIZED G. HALE fissile, platy, organic rich, hard & dry DK. GRAY
70					14				
75					15				
80					16				
85					17				SANDSTONE w/ CONSIDERABLE SILT, v. FINE GRAIN DK. GRAY fine grain, well rounded, poorly graded, qtz. w/ SILTS (fres. c.)
90					18				

COMMENTS:

SAMPLE TYPE

A - Auger cuttings
S - 3" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. thin-walled Shelby tube

JACOBS ENGINEERING GROUP INC.
ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS

BOREHOLE LOG (SOIL)

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LOCATION MAP:

SITE ID: AMB-16 LOCATION ID: 661
SITE COORDINATES (ft.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
DRILLING METHOD: _____
DRILLING CONTR.: _____
DATE STARTED: _____
DATE COMPLETED: _____
FIELD REP.: _____

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION _____
SITE CONDITION _____

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE REMOVED	TYPE	ID	BLOWS PER 6 in.	N VALUE	USCS	VISUAL CLASSIFICATION
95					19				<u>SILT</u> w/ considerable silt, Med to DK Blue gray
100					20				
105					21				
110					22				<u>SANDSTONE</u> , very fine, well sorted aty grains V. LT. GRAY (trcs C ₂)
115					23				
120					24				<u>SILTSTONE</u> MED. GRAY

COMMENTS:

SAMPLE TYPE
A - Auger cuttings
S - 2" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. thermal Shelby tube

BOREHOLE LOG (SOIL)

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LOCATION MAP:

SITE ID: AMB-16 LOCATION ID: 681 OPT
SITE COORDINATES (N. E.):
N E
GROUND ELEVATION (ft. MSL):
DRILLING METHOD:
DRILLING CONTR.:
DATE STARTED:
DATE COMPLETED:
FIELD REP.:

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION

SITE CONDITION

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	TYPE	ID	BLOWS PER 6 in.	N VALUE	USCS	VISUAL CLASSIFICATION
125					25				SILTstone / SHALE fissile, dry, med to dk GRAY
130					26				
135					27				
140					28				
145					29				
150					30				

COMMENTS:

SAMPLE TYPE

A - Auger cuttings
S - 2" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. ther-walled Shelby tube

BOREHOLE LOG (SOIL)

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LOCATION MAP:

SITE ID: AMB-16 LOCATION ID: 681 OPT
SITE COORDINATES (ft.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
DRILLING METHOD: _____
DRILLING CONTR.: _____
DATE STARTED: _____
DATE COMPLETED: _____
FIELD REP.: _____

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION _____
SITE CONDITION _____

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	TYPE	ID	BLOWS PER 6 in.	N VALUE	USCS	VISUAL CLASSIFICATION
155	✓	✓	✓		31				SILTSTONE / CLAYSTONE fissile, DRY Med to DK GRAY
160	✓	✓	✓		32				
165	✓	✓	✓		33				
170	✓	✓	✓		34				
175	✓	✓	✓		35				
180	✓	✓	✓		36				

COMMENTS:

SAMPLE TYPE

A - Auger cuttings
S - 2" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. thin-walled Shelby tube

BOREHOLE LOG (SOIL)

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LOCATION MAP:

SITE ID: AMB-16 - LOCATION ID: 681 opt
SITE COORDINATES (ft.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
DRILLING METHOD: _____
DRILLING CONTR.: _____
DATE STARTED: _____
DATE COMPLETED: _____
FIELD REP.: _____

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION _____
SITE CONDITION _____

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	TYPE	D	BLOWS PER 6 in.	N VALUE	USCS	VISUAL CLASSIFICATION
185					37				CLAYSTONE / SHALE w/ SILT fraction DK GRAY
190					38				
195					39				
200					40				
205					41				SANDSTONE (Tres. & Member) Extremely well sorted, well rounded v. fine to fine Qtz ss Lt gray
210					42				

COMMENTS:

SAMPLE TYPE

A - Auger cuttings
S - 3" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. thin-walled Shelby tube

BOREHOLE LOG (SOIL)

LOCATION MAP:

SITE ID: AMB-16 LOCATION ID: 681
 SITE COORDINATES (II.):
 N _____ E _____
 GROUND ELEVATION (ft. MSL): _____
 DRILLING METHOD: _____
 DRILLING CONTR.: _____
 DATE STARTED: _____
 DATE COMPLETED: _____
 FIELD REP.: _____

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION

SITE CONDITION

DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	TYPE	D	BLOWS PER 6 IN.	N VALUE	USCS	VISUAL CLASSIFICATION
									L _s cont.
215					43				slightly damp
220					44				MORE SILTS
225					45				
230					46				SILTALC, Fissile, DRY Med. to DK GRAY
235					47				T.D. 234.7 at 1530

COMMENTS:

SAMPLE TYPE

A - Auger cuttings
S - 2" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. thin-walled Shelby tube

WELL COMPLETION RECORD

SITE ID: AMB-16 LOCATION ID: 681 OPT. DATE INSTALLED: 1-24-89
APPROX. SITE COORDINATES: (FT.) N _____ E _____
OPEN AREA PER LINEAL FT. (IN²/FT.) 8² - 4.5²
FORMATION OF COMPLETION: Tres B member of the MANCOS FM
FIELD REP.: D. R. METZGER DRILLER: CHEW NORTHERN

COMMENTS: _____

JE JACOBS ENGINEERING GROUP INC.
ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS

BOREHOLE/WELL CONSTRUCTION LOG

SITE ID: AMB-16 LOCATION ID: 681 FIELD REP: D.R. METZLER

APPROX. SITE COORDINATES (FT.): N E

GROUND ELEVATION (FT. MSL): 7000 COMPLETION DATE: 1-24-89

BOREHOLE SUMMARY				CONSTRUCTION TIME LOG			
DRILLER: <u>CHEN / NORTHERN / SALAZAR</u>				ACTIVITY	START		END TIME
RIG TYPE: <u> </u>					DATE	TIME	
BIT TYPE	HOLE DIA. (in.)	END DEPTH (ft.)	FLUID TYPE	DRILLING	1-23-89	10 00 AM	5 00 PM
TRicone	9 7/8	40.0	AIR	Geo Phy log	1-24-89	6 30 AM	8 30 AM
" "	7 7/8	235.0	AIR	tripped out	1-24-89	8 30 AM	9 30 AM
				CASING	1-24-89	9 30 AM	10 40 AM
CASING SUMMARY				FILTER PACK	1-24-89	10 40 AM	10 55 AM
CASING TYPE*	DESCRIPTION		DIA. (in.)	END DEPTH (ft.)	10 SACKS = SILICA		
B	SH 40 FLUSH SUMP + CAP		4.0	232.5	SEAL	1-24-89	11 00
S	" " " SCREEN		4.0	230.0	3/4 bentonite chip		12 15
B	" " " BLANK CASING		4.0	200.0	68 SACKS		
P	STEEL Protective CASING		8 5/8	6.0	BACKFILL	1-24-88	14 30
					DEVELOPMENT	1-27-88	8 00
					OTHER		11 45
* P-Protective S-Screen B-Blank O-Open N-None							
* Depth from Top of Casing							
WELL CONSTRUCTION				WELL DEVELOPMENT			
TYPE CODE*	DESCRIPTION		END DEPTH (ft.)	Blowing out a continuous fine stream of water 2 gpm for first 30 min. yielding a 1.0 gpm for remainder of test. showing v. hard			
S	3/4 bentonite chip		235.0				
F	8-12 SILICA SAND		233.0				
S	3/4 bentonite chip		190.0				
B	bentonite-cement grout		10.0				
COMMENTS: <u>Tres B MAKING some water.</u>							
* B - Backfill S - Seal F - Filter Pack							
* Depth from Ground Surface							

WELL 776 LOGS

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ANN

P. croconae 7918
16'
PDC

SITE ID: AMB-01 LOCATION ID: 776
APPROX. SITE COORDINATES (ft.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
DRILLING METHOD: 6.5" ASA
DRILLER: WTI
DATE STARTED: 7-16-85
DATE COMPLETED: 7-16-85
FIELD REP.: R. Crocker

DATE	TIME	DEPTH (ft.)
------	------	-------------

LOCATION DESCRIPTION
SITE CONDITION _____

LOCATION DESCRIPTION 6' S of Picocore 7 918
SITE CONDITION Uncovered Tailings Pile

[illegible]

COMMENTS:

SAMPLE TYPE

A - Auger cuttings
S - 2" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. thin-walled Shelby tube

JACOBS ENGINEERING GROUP INC.
ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS

WELL COMPLETION RECORD

SITE ID: AMB01 LOCATION ID: 776 DATE INSTALLED: 8/23/95
APPROX. SITE COORDINATES: (FT.) N NK E NK
OPEN AREA PER LINEAL FT. (IN²/FT.) 150.7 for 4.0" ID
FORMATION OF COMPLETION: Gal
FIELD REP.: Roger Holland DRILLER: Stewart Bro. (Albert)

COMMENTS: _____

WELL 777 LOGS

BOREHOLE LOG (ROCK)

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LOCATION MAP:

SITE ID: AMB01 LOCATION ID: 777
SITE COORDINATES (ft.):
N NK E NK
GROUND ELEVATION (ft. MSL): NK
DRILLING METHOD: Rotary - Gear Bit
DRILLING CONTR.: Stewart Bro.
DATE STARTED: 9/29/85
DATE COMPLETED: 9/29/85
FIELD REP.: Roger F. Holland

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION approx. 300' south of se. edge of Tailings pile
SITE CONDITION Level covered with weeds and grass

DEPTH (ft.)	DRILLING OPERATION	% CORE RECOVERY	% ROCK QUALITY DESIGNATION (RQD)	% DRILLING FLUID RECOVERY	PACKER TEST INTERVAL	SPACING	ORIENTATION	CONDITION	WEATHERING	LITHOLOGY	ROCK TYPE & REMARKS
0	GB			100						cl	Clay, sandy, tan to buff, calcareous
5											sand fraction seems to be increasing with depth
10											
15											
20											
25											
COMMENTS: _____											

DRILLING OPERATIONS

M - 6 1/2" HOLLOW STEM AUGER
C - 4 1/2" CONTINUOUS FLIGHT
GB - GEAR BIT
NR - NR ROCK CORING
AC - AC WIRELINE REEF CORING

BOREHOLE LOG (ROCK)

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LOCATION MAP:

SITE ID: AMB01 LOCATION ID: 777
SITE COORDINATES (ft.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
DRILLING METHOD: _____
DRILLING CONTR.: _____
DATE STARTED: _____
DATE COMPLETED: 7/4/85
FIELD REP.: Roger Holland

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION
SITE CONDITION

DEPTH (ft.)	BOHNG OPERATION	% CORE RECOVERY	ROCK QUALITY DESIGNATION (RQD)	% DRILLING FLUID RECOVERY	PACKER TEST INTERVAL	SPACING	ORIENTATION	CONDITION	WEATHERING	LITHOLOGY	ROCK TYPE & REMARKS
25	6B			100						clst	claystone, tan to v. lt yellow, calc., soft, fissile, weathered.
30										ss	@ 30' sandstone, tan, vfg, calc wit ferruginous micaceous sandstone frags. zone v. similar to zone @ 40-50' in hole 776.
35										clst	@ 35' as ab dec. becoming sandy clay, tan, calc.
40										clst	@ 40' as ab dec. & sandy claystone, dark gray to bl. calc. Top of Mancos Shale.
45										clst ss	claystone, dark gray to blk, fissile with sandstone, lt gray, fq, calc. fissile. TRC
50											

COMMENTS:

BOHNG OPERATIONS

H - 6 1/2" HOLLOW STEM ALGER
C - 4 1/2" CONTINUOUS FLIGHT A
GB - GEAR BIT
N2 - NO ROCK CORING
NC - NO WIRELINE ECLIP CORING

BOREHOLE LOG (ROCK)

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LOCATION MAP:

SITE ID: AmB01 LOCATION ID: 777
SITE COORDINATES (11.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
DRILLING METHOD: _____
DRILLING CONTR.: _____
DATE STARTED: _____
DATE COMPLETED: _____
FIELD REP.: R. Holland

GROUNDWATER LEVELS

DATE	TIME	DEPTH (11.)

LOCATION DESCRIPTION _____
SITE CONDITION _____

DEPTH (FT.)	BOHRING OPERATION	COHE RECOVERY	ROCK QUALITY DESIGNATION (RQD)	DRILLING FLUID RECOVERY	PACKER TEST INTERVAL	SPACING	ORIENTATION	CONDITION	WEATHERING	LITHOLOGY	ROCK TYPE & REMARKS
50	GB		100							CLST	Sandstone inc. with depth
55											
60										45	Sandstone, lt gray, vfg, calc. to non cal fissile
65										45	Sandstone, med. to dark gray, vfg, calc., fissile becoming clayey.
70											
75											

COMMENTS: _____

BOHRING OPERATIONS

M - 6 1/2 HOLLOW STEM AUGER
C - 4 1/2 CONTINUOUS FLIGHT AL.
GB - GEAR BIT
N3 - N3 REEF CORING
N2 - N2 WIRELINE REEF CORING

BOREHOLE LOG (ROCK)

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LOCATION MAP:

SITE ID: _____ LOCATION ID: _____
SITE COORDINATES (ft.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
DRILLING METHOD: _____
DRILLING CONTR.: _____
DATE STARTED: _____
DATE COMPLETED: _____
FIELD REP.: _____

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION _____
SITE CONDITION _____

DEPTH (ft.)	BOHNG OPERATION	% CORE RECOVERY	% ROCK QUALITY DESIGNATION (RQD)	% DRILLING FLUID RECOVERY	PACKER TEST INTERVAL	SPACING	ORIENTATION	CONDITION	WEATHERING	LITHOLOGY	ROCK TYPE & REMARKS
75	60			100						66	
80										66 ↓ CH	@ 80' same as above with clay fraction inc. with depth.
85											
90											
95											
100											

COMMENTS: _____

BOHNG OPERATIONS

H - 6 1/2 HOLLOW STEM ALGER
C - 4 1/2 CONTINUOUS FLIGHT A
GB - GEAR BIT
NA - NA ROCK CORING
NC - NC WIRELINE ECLIPSE CORING

BOREHOLE LOG (ROCK)

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LOCATION MAP:

SITE ID: AMB01 LOCATION ID: 777
SITE COORDINATES (ft.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
DRILLING METHOD: _____
DRILLING CONTR.: _____
DATE STARTED: _____
DATE COMPLETED: _____
FIELD REP.: R. Holland

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION _____

SITE CONDITION _____

DEPTH (ft.)	DRILLING OPERATION	% CORE RECOVERY	% ROCK QUALITY DESIGNATION (ROD)	% DRILLING FLUID RECOVERY	PACKER TEST INTERVAL	SPACING	ORIENTATION	CONDITION	WEATHERING	LITHOLOGY	ROCK TYPE • REMARKS
100	GB		100								Clay fraction about same or slightly less than above
105											
110											
115											
120											Claystone, med to dark gray, calc. fiss. ss, med to dark gr., vfg, calc.
125											

COMMENTS: _____

DRILLING OPERATIONS

H - 8 1/2" HOLLOW-STEM AUGER
C - 4 1/2" CONTINUOUS FLIGHT AUGER
GB - GEAR BIT
N1 - N1 ROCK CORING
N2 - N2 WIRELINE ROCK CORING

BOREHOLE LOG (ROCK)

LOCATION MAP:

SITE ID: AmB01 LOCATION ID: 777
SITE COORDINATES (ft.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
DRILLING METHOD: _____
DRILLING CONTR.: _____
DATE STARTED: _____
DATE COMPLETED: _____
FIELD REP.: Roger Holland

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION _____

SITE CONDITION _____

DEPTH (ft.)	BOHRING OPERATION	% CORE RECOVERY	ROCK QUALITY DESIGNATION (RQD)	% DRILLING FLUID RECOVERY	PACKER TEST INTERVAL	SPACING	ORIENTATION	CONDITION	WEATHERING	LITHOLOGY	ROCK TYPE & REMARKS
125	GP		100							Q ₁₀₀ 65	as above
130											
135											
140											pyrite noted @ 140-145
145											
150											

COMMENTS: _____

BOHRING OPERATIONS

H - 6 1/2 HOLLOW STEM ALGER
C - 4 1/2 CONTINUOUS FLIGHT A
GB - GEAR BIT
RC - RC ROCC CORING
WC - WC WIRELINE ROCC CORING

BOREHOLE LOG (ROCK)

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LOCATION MAP:

SITE ID: AM1301 LOCATION ID: 777
SITE COORDINATES (ft.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
DRILLING METHOD: _____
DRILLING CONTR.: _____
DATE STARTED: _____
DATE COMPLETED: _____
FIELD REP.: Roger F. Holland

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION _____
SITE CONDITION _____

DEPTH (ft.)	DRILLING OPERATION	% CORE RECOVERY	% ROCK QUALITY DESIGNATION (RQD)	% DRILLING FLUID RECOVERY	PACKER TEST INTERVAL	SPACING	ORIENTATION	CONDITION	WEATHERING	LITHOLOGY	ROCK TYPE & REMARKS
150	GP			100						clay /s	
155										clay /s	same as ab with sandstone fractio inc. TRA
160										clay /s	claystone, if greenish gray, slightly calc. pyrite noted minor sandstone
165											
170										clay /s	same as ab with inc. in sand fraction.
176											

COMMENTS: _____

BOREHOLE OPERATIONS

M - 6 1/2 HOLLOW STEM ALGES
C - 4 1/2 CONTINUOUS FLIGHT
GB - GEAR BIT
NA - NO ROCK CORING
ND - NO WIRELINE RECY CORING

BOREHOLE LOG (ROCK)

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LOCATION MAP:

SITE ID: AmB01 LOCATION ID: 775
SITE COORDINATES (ft.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
DRILLING METHOD: _____
DRILLING CONTR.: _____
DATE STARTED: _____
DATE COMPLETED: _____
FIELD REP.: R. Holland

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION _____

SITE CONDITION _____

DEPTH (ft.)	BOHNG OPERATION	% CORE RECOVERY	% ROCK QUALITY DESIGNATION (RQD)	% DRILLING FLUID RECOVERY	PACKER TEST INTERVAL	SPACING	ORIENTATION	CONDITION	WEATHERING	LITHOLOGY	ROCK TYPE & REMARKS
175	GB			100						50 20%	as ab
180											
185											greenish gray claystone as ab dec. sandy claystone, med gray to blk some lt gray sandstone, fq, calc
190											
195											
200											

COMMENTS: _____

BOHNG OPERATION

H - 6 1/2 HOLLOW STEM ALGER
C - 4 1/2 CONTINUOUS FLIGHT AL
GB - GEAR BIT
N2 - N2 ROCK CORING
ND - NO WIRELINE REC CORING

BOREHOLE LOG (ROCK)

Page 9 of 10

LOCATION MAP:

SITE ID: Am301 LOCATION ID: 777
SITE COORDINATES (ft.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
DRILLING METHOD: _____
DRILLING CONTR.: _____
DATE STARTED: _____
DATE COMPLETED: _____
FIELD REP.: R. Holland

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION
SITE CONDITION

DEPTH (ft.)	RODING OPERATION	% CORE RECOVERY	% ROCK QUALITY DESIGNATION (ROD)	% DRILLING FLUID RECOVERY	PACKER TEST INTERVAL	SPACING	ORIENTATION	CONDITION	WEATHERING	LITHOLOGY	ROCK TYPE & REMARKS
200	GB			100						CHT 100	
205										clst	claystone, dark gray to blk, soft, non calc.
210											
215											
220											
225											

COMMENTS:

BOREHOLE OPERATIONS

H - 8 1/2" HOLLOW STEM AUGER
C - 4 1/2" CONTINUOUS FLIGHT A
GB - GEAR BIT
NA - NO ROCK CORING
NC - NO WIRELINE ECH CORING

AN

FIELD REP.: B. Holland

DATE	TIME	DEPTH (ft.)
------	------	-------------

SITE CONDITION

TD 230 PD 227

COMMENTS:

AC - MC WIRELINE 2200 22042

WELL COMPLETION RECORD

SITE ID: AMB01 LOCATION ID: 777 DATE INSTALLED: 9/4/85
APPROX. SITE COORDINATES: (FT.) N NK E NK
OPEN AREA PER LINEAL FT. (IN²/FT.) 8" hole 4.5" OD PVC casing
FORMATION OF COMPLETION: Tres Hermanas, X B
FIELD REP.: Roger Holland DRILLER: Stewart Bro.

COMMENTS: _____

JE JACOBS ENGINEERING GROUP INC.
ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS
BOREHOLE/WELL CONSTRUCTION LOG

SITE ID: AMB01 LOCATION ID: 777 FIELD REP: Roger Holland
APPROX. SITE COORDINATES (FT.): N NX E NX
GROUND ELEVATION (FT. MSL): NX COMPLETION DATE: 9/5/85

BOREHOLE SUMMARY				CONSTRUCTION TIME LOG				
DRILLER: <u>Stewart Bros.</u>				ACTIVITY	START		END TIME	
RIG TYPE: <u>Gardner Denver 15W</u>					DATE	TIME		
BIT TYPE	HOLE DIA. (in.)	END DEPTH (ft.)	FLUID TYPE	DRILLING*	9/4/85	12:30 pm	3:00 pm	
<u>Hughes Mill Teeth</u>	<u>8.0</u>	<u>158'</u>	<u>Bentonite mud</u>					
				CASING	9/4/85	3:25 pm	4:10 pm	
CASING SUMMARY				FILTER PACK	9/4/85	4:39 pm	5:45 pm	
CASING TYPE*	DESCRIPTION		DIA. (in.)	END DEPTH (ft.)	SEAL	9/4/85	6:00 pm	6:05 pm
<u>B</u>	<u>PVC sched 80</u>		<u>4.0</u>	<u>153</u>	BACKFILL	9/5/85	7:11 AM	7:20 AM
<u>S</u>	<u>PVC .051" sched</u>		<u>4.0</u>	<u>158</u>	DEVELOPMENT	9/6/85	3:12 pm	6:30 pm
<u>B</u>	<u>PVC sched 80</u>		<u>4.0</u>	<u>160</u>		9/7/85	7:00 AM	8:45 AM
					OTHER			
* P-Protective S-Screen B-Blank O-Open N-None								
* Depth from Top of Casing								
WELL CONSTRUCTION				WELL DEVELOPMENT				
TYPE CODE*	DESCRIPTION		END DEPTH (ft.)	Hole blown, flushed repeatedly until clean. water quality: pH 8.9 8.2				
<u>B</u>	<u>Cement/Bent. Grout</u>		<u>146</u>	Hole blown dry, let set, blow - no water				
<u>S</u>	<u>Bentonite Gel</u>		<u>148</u>	Bail - very little < 190 removed in 15 min.				
<u>F</u>	<u>Silica sand</u>		<u>158</u>	COMMENTS: * Hole previously drilled to 230 on 8/29 using a 5" bit.				
				Hole cement back to top on same date. Hole reamed to 8" hole to 158 on 9/4/85				
* B - Backfill S - Seal F - Filter Pack								
* Depth from Ground Surface								

WELL 778 LOGS

BOREHOLE LOG (ROCK)

Page 1 of 1

LOCATION MAP:

SITE ID: AMBO1 LOCATION ID: 778
SITE COORDINATES (ft.):
N NK E NK
GROUND ELEVATION (ft. MSL): NK
DRILLING METHOD: Rotary - Gear Bit
DRILLING CONTR.: Stewart Bro.
DATE STARTED: 8/30/85
DATE COMPLETED: 8/30/85
FIELD REP.: Roger Holland

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION Approx 300' so. of the so. side of Tailings pile
SITE CONDITION Level loamy soil with weed and grass cover

[illegible]

COMMENTS:

SCIENCE OFFICIALS

M - 5 1/2 HOLLOW STEM AUGER
C - 4 1/2 CONTINUOUS FLIGHT AUGER
GB - GEAR BIT
A1 - A2 ROCK CORING
A3 - A4 WIRELINE ECLIP CORING

JACOBS ENGINEERING GROUP INC.
ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS

WELL COMPLETION RECORD

SITE ID: AMB01 LOCATION ID: 778 DATE INSTALLED: 8/30/85
APPROX. SITE COORDINATES: (FT.) N NK E NK
OPEN AREA PER LINEAL FT. (IN²/FT.) 8.0" bore hole 4.0" OD casing
FORMATION OF COMPLETION: Aluminum TRCI
FIELD REP.: Roger Holland DRILLER: Stewart Bro.

COMMENTS: _____

JE JACOBS ENGINEERING GROUP INC.
 ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS
BOREHOLE/WELL CONSTRUCTION LOG

SITE ID: AMB01 LOCATION ID: 778 FIELD REP: Roger Holland
 APPROX. SITE COORDINATES (FT.): N NK E NK
 GROUND ELEVATION (FT. MSL): NK COMPLETION DATE: 8/30/85

BOREHOLE SUMMARY				CONSTRUCTION TIME LOG																																						
DRILLER: <u>Stewart Bro. (Albert Fero)</u>				ACTIVITY	START		END TIME																																			
RIG TYPE: _____					DATE	TIME																																				
BIT TYPE	HOLE DIA. (in.)	END DEPTH (ft.)	FLUID TYPE	DRILLING	8/30/85	8:20 AM	9:00 AM																																			
<u>Hughes Multi-Tooth</u>	<u>8.0</u>	<u>37.0</u>	<u>Bentonite</u>																																							
				CASING	8/30/85	9:17 AM	10:00 AM																																			
				FILTER PACK	8/30/85	10:06 AM	10:20 AM																																			
				SEAL	8/30/85	10:21 AM	10:23 AM																																			
				BACKFILL	8/30/85	10:30 AM	10:45 AM																																			
				DEVELOPMENT	9/4/85	8:04 AM	11:30 AM																																			
				OTHER																																						
CASING SUMMARY <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>CASING TYPE*</th> <th>DESCRIPTION</th> <th>DIA. (in.)</th> <th>END DEPTH (ft.)</th> </tr> </thead> <tbody> <tr> <td><u>B</u></td> <td><u>PVC Sched. 80</u></td> <td><u>4.0</u></td> <td><u>30.0</u></td> </tr> <tr> <td><u>S</u></td> <td><u>Well screen PVC .051"</u></td> <td><u>4.0</u></td> <td><u>35.0</u></td> </tr> <tr> <td><u>B</u></td> <td><u>PVC Sched. 80</u></td> <td><u>4.0</u></td> <td><u>37.0</u></td> </tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>				CASING TYPE*	DESCRIPTION	DIA. (in.)	END DEPTH (ft.)	<u>B</u>	<u>PVC Sched. 80</u>	<u>4.0</u>	<u>30.0</u>	<u>S</u>	<u>Well screen PVC .051"</u>	<u>4.0</u>	<u>35.0</u>	<u>B</u>	<u>PVC Sched. 80</u>	<u>4.0</u>	<u>37.0</u>																							
CASING TYPE*	DESCRIPTION	DIA. (in.)	END DEPTH (ft.)																																							
<u>B</u>	<u>PVC Sched. 80</u>	<u>4.0</u>	<u>30.0</u>																																							
<u>S</u>	<u>Well screen PVC .051"</u>	<u>4.0</u>	<u>35.0</u>																																							
<u>B</u>	<u>PVC Sched. 80</u>	<u>4.0</u>	<u>37.0</u>																																							
* P-Protective S-Screen B-Blank O-Open N-None * Depth from Top of Casing																																										
WELL CONSTRUCTION				WELL DEVELOPMENT																																						
TYPE CODE*	DESCRIPTION	END DEPTH (ft.)	Ph <u>8.16</u> <u>7.09</u> <u>7.19</u> Conductivity <u>460</u> <u>442</u> <u>449</u> salinity <u>3%</u> <u>2.9%</u> <u>2.8%</u>																																							
<u>B</u>	<u>cement/bentonite Grout</u>	<u>25.0</u>																																								
<u>S</u>	<u>Bentonite pellets</u>	<u>27.0</u>																																								
<u>BF</u>	<u>Silica Sand</u>	<u>37.0</u>																																								
* B - Backfill S - Seal F - Filter Pack * Depth from Ground Surface			COMMENTS: <u>Hole blown, Flushed</u> <u>and blown repeatedly to clean.</u> <u>Hole allowed to set & recharge</u> <u>several times - hole making water</u>																																							

WELL 779 LOGS

BOREHOLE LOG (ROCK)

Page 1 of 2

LOCATION MAP:

SITE ID: AMB01 LOCATION ID: 279
SITE COORDINATES (N. E.):
N NK E NK
GROUND ELEVATION (ft. MSL): NK
DRILLING METHOD: Rotary Gear Bit / Core
DRILLING CONTR.: Stewart Brothers
DATE STARTED: 9/5/85
DATE COMPLETED:
FIELD REP.: Roger Holland

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION Approx 300' so. of So. side of Tailings pile
SITE CONDITION Level with weed and grass cover

DEPTH (ft.)	DRILLING OPERATION	% CORE RECOVERY	% ROCK QUALITY DESIGNATION (RQD)	% DRILLING FLUID RECOVERY	PACKER TEST INTERVAL	SPACING	ORIENTATION	CONDITION	WEATHERING	LITHOLOGY	ROCK TYPE & REMARKS
0	GB		100								Note: Hole drilled to 50 ft. with 8" bit -- Core from 50-60' Reamed to 8" from 50-60' Drilled 8" from 60-62' No samples taken from 0-50'
50	3.0"	97%	100	100		1	0	SM	F	SS	2. 50' sandstone, med to lt. to dk gray, fine to coarse gr., calc., dr with clay fraction some mottling sub to well rounded frosted 6.0g gran overall grain size dec. 2 54.5' sandstone becoming cleaner. some disturbed bedding. calc. Pyrite noted. Aragonite stringer 2 56.8' noted.
60	GB		100								2 68' 55, lt to med gray, fa, calc. TD 62' screen set from 60-55'

COMMENTS:

DRILLING OPERATIONS

M - 6 1/2 MOLLOY STEEL ALDER
C - 4 1/2 CONTINUOUS FLIGHT A
GB - GEAR BIT
NA - NO ROCK CORING
NC - NO WIRELINE PULP CORING

JACOBS ENGINEERING GROUP INC.
ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS

WELL COMPLETION RECORD

SITE ID: AmB01 LOCATION ID: 779 DATE INSTALLED: 9/5/85
APPROX. SITE COORDINATES: (FT.) N NK E NK
OPEN AREA PER LINEAL FT. (IN²/FT.) 9" Bore hole 4.500 PVC casing
FORMATION OF COMPLETION: Tres Hermanos # 2
FIELD REP.: Roger Holland DRILLER: Stewart Bro.

COMMENTS: _____

JE JACOBS ENGINEERING GROUP INC.
 ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS
BOREHOLE/WELL CONSTRUCTION LOG

SITE ID: AMBA LOCATION ID: 779 FIELD REP: Roger Holland
 APPROX. SITE COORDINATES (FT.): N NK E NK
 GROUND ELEVATION (FT. MSL): NK COMPLETION DATE: 9/5/85

BOREHOLE SUMMARY				CONSTRUCTION TIME LOG			
DRILLER: <u>Steward Bro.</u> RIG TYPE: <u>Gardner Denver 15W</u>				ACTIVITY	START		END TIME
					DATE	TIME	
BIT TYPE	HOLE DIA. (in.)	END DEPTH (ft.)	FLUID TYPE	DRILLING	9/5/85	10:10 AM	12:30 PM
<u>Hughes</u>	<u>8.0"</u>	<u>62.0'</u>	<u>Bentonite mud</u>				
<u>Mill Tooth</u>							
				CASING	9/5/85	12:45 PM	1:20 PM
CASING SUMMARY				FILTER PACK	9/5/85	1:45 PM	1:54 PM
CASING TYPE*	DESCRIPTION	DIA. (in.)	END DEPTH (ft.)				
<u>B</u>	<u>PVC SCHED. 80</u>	<u>4.0"</u>	<u>57'</u>				
<u>S</u>	<u>PVC .051 slotted</u>	<u>4.0</u>	<u>62'</u>	SEAL	9/5/85	1:58 PM	2:00 PM
<u>B</u>	<u>PVC SCHED. 80</u>	<u>4.0</u>	<u>64'</u>				
				BACKFILL	9/5/85	2:36 PM	2:47 PM
				DEVELOPMENT	9/7/85	8:20 AM	12:15 PM
				OTHER			
WELL CONSTRUCTION				WELL DEVELOPMENT			
TYPE CODE*	DESCRIPTION	END DEPTH (ft.)	Hole was blown, let set, flushed, and blown to clean and allow to recharge - NO water. Bailed from 12:00 - 12:15 PM < 1/2 gal water removed.				
<u>B</u>	<u>Cement/Bent. Grout</u>	<u>48'</u>					
<u>S</u>	<u>Veeloy Tablets</u>	<u>52'</u>					
<u>F</u>	<u>Silica Sand</u>	<u>62'</u>					
			COMMENTS:				
* B - Backfill S - Seal F - Filter Pack * Depth from Ground Surface							

WELL 781 LOGS

PROJECT AMBROSIA LAKE SITE, NEW MEXICOPage 1 of 4
LOG OF WELL BORING NO. 781JOB NO. AMB01 DATE 09/06/85TOTAL DEPTH 170.0 feetSURFACE ELEVATION 6965.10

RIG TYPE

TOP OF FILTER PACK 30.00BORING TYPE ROTARYWELL CASING TYPE 4.0-IN. SCHED. 80 PVCLOCATION N 53253.50 E 59156.30COMPLETION ALLUVIUMDATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
0		Installed 4-in. PVC well to 40 feet.		SC	ALLUVIUM:
		Placed steel protective casing to 3 feet.			CLAYEY SAND, fine to medium, calcareous, tan to brown.
5		Installed grout to 26 feet.			
10					
15					
20					
25					
30		Installed bentonite pellet seal from 26 to 30 ft.			
35		Placed 8-12 filter pack from 30 to 40 feet			
40		Placed .051 slot well screen from 33 to 38 ft. with 2 ft. sump below.			
45		Bentonite seal placed from 40 to 41 ft. over grout backfill of 5-in. hole drilled to 170 feet. Hole was reamed to 8-in to 41 feet.		SP	MANCOS SHALE FM., TRES HERMANOS C (lower), MEMBER SANDSTONE, fine, slightly calcareous, little silt, tan.
50					Note: Becoming lt. to med. to dark grey.

GROUNDWATER

DEPTH	HOUR	DATE
36.5	10:52	9-25-85

JEG TAC TEAM

PROJECT AMBROSIA LAKE SITE, NEW MEXICOPage 2 of 4
LOG OF WELL BORING NO. 781JOB NO. AMB01 DATE 09/06/85
SURFACE ELEVATION 6965.10
TOP OF FILTER PACK 30.00
WELL CASING TYPE 4.0-IN. SCHED. 80 PVC
COMPLETION ALLUVIUMTOTAL DEPTH 170.0 feet
RIG TYPE
BORING TYPE ROTARY
LOCATION N 53253.50 E 59156.30
DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
55					MANCOS SHALE FM., Continued.
60					
65					
70					
75					
80					Note: Inclusions of white bentonitic clay present. Becoming dark grey to black.
85					
90				CH	
					CLAYSTONE-SHALE, calcareous, fissile, soft, dark grey to black.
95					
100					

GROUNDWATER

DEPTH	HOUR	DATE
36.5	10:52	9-25-85

JEG TAC TEAM

PROJECT AMBROSIA LAKE SITE, NEW MEXICOPage 3 of 4
LOG OF WELL BORING NO. 781JOB NO. AMB01 DATE 09/06/85TOTAL DEPTH 170.0 feetSURFACE ELEVATION 6965.10

RIG TYPE

TOP OF FILTER PACK 30.00BORING TYPE ROTARYWELL CASING TYPE 4.0-IN.SCHED.80 PVCLOCATION N 53253.50 E 59156.30COMPLETION ALLUVIUMDATUM MSL, GROUND SURFACE

	Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
105						MANCOS SHALE FM.: Continued. Note: Some minor interbedded clayey, fine, sandstone seams present, slightly calcareous, dark grey to black.
110						
115						
120						
125						
130						
135						
140						
145					SP CL	SANDSTONE & CLAYSTONE , interbedded, slightly calcareous, pyrite particles common, dark grey to black.
150			DEPTH, CORE / RQD REC. % 150-160 90 100		SP	MANCOS SHALE FM. TRES HERMANOS B, MEMBER SANDSTONE , fine with seams of coarse, hard, scattered pyrite, lt. to med. grey.
155						

GROUNDWATER		
DEPTH	HOUR	DATE
36.5	10:52	9-25-85

JEG TAC TEAM

PROJECT AMBROSIA LAKE SITE, NEW MEXICOPage 4 of 4
LOG OF WELL BORING NO. 781JOB NO. AMB01 DATE 09/06/85TOTAL DEPTH 170.0 feetSURFACE ELEVATION 6965.10

RIG TYPE

TOP OF FILTER PACK 30.00BORING TYPE ROTARYWELL CASING TYPE 4.0-IN.SCHED.80 PVCLOCATION N 53253.50 E 59156.30COMPLETION ALLUVIUMDATUM MSL, GROUND SURFACE

	Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
160						MANCOS SHALE FM. TRES HERMANOS B, Continued. Note: Some claystone seams, slightly calcareous.
165					CH	CLAYSTONE-SHALE, soft, with minor sandstone seams, lt. grey.
170						TD AT 170 FEET.
175						
180						
185						
190						
195						
200						
205						

GROUNDWATER

DEPTH	HOUR	DATE
36.5	10:52	9-25-85

JEG TAC TEAM

WELL COMPLETION RECORD

SITE ID: AMB01 LOCATION ID: 781 DATE INSTALLED: 9/7/85
APPROX. SITE COORDINATES: (FT.) N NK E NK
OPEN AREA PER LINEAL FT. (IN²/FT.) 8" Bore hole with 4.5" OD casing
FORMATION OF COMPLETION: Alluvium
FIELD REP.: Roger J. Holland DRILLER: Stewart Brothers

COMMENTS: A small amt. of Bentonite Tablets ^{was} put in hole
Prior to putting in casing in order to seal off cement in bottom of hole.

WELL 782 LOGS

BOREHOLE LOG (ROCK)

Page 1 of 6

LOCATION MAP:

SITE ID: AMB01 LOCATION ID: 782
SITE COORDINATES (N. E.):
N NK E NK
GROUND ELEVATION (ft. MSL): NK
DRILLING METHOD: Rotary - Gear Bit
DRILLING CONTR.: Stewart Brothers
DATE STARTED: 9/7/85
DATE COMPLETED: _____
FIELD REP.: Gregor E. Holland

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION North west cor., west side of tailings pile outside of fence
SITE CONDITION Level with blue grass and weed cover

DEPTH (ft.)	BOHING OPERATION	% CORE RECOVERY	ROCK QUALITY DESIGNATION (RQD)	% DRILLING FLUID RECOVERY	PACKER TEST INTERVAL	SPACING	ORIENTATION	CONDITION	WEATHERING	LITHOLOGY	ROCK TYPE & REMARKS
0	GB			100						Sand and clay	0-10' Sandy clay, of tan, highly calcareous soft.
5											
10	GB			100							at 10' clay as above becomes slightly indurated. Sandstone, lt tan, cty to fq, calcareous or sandstone, orange, fq, ferrugeneous. Hematite fragments common. 10-45'
15											
20											
25											
30											
35											
40											
45											

COMMENTS:

BOHING OPERATIONS

H - 6 1/2 HOLLOW STEM AUGER
C - 4 1/2 CONTINUOUS FLIGHT A
GB - GEAR BIT
NA - NO ROCK CORING
NC - NO WIRELINE REEF CORING

JEG-AL-ENG-2A (4/85)

* Hole drilled to _____ with 5" bit on _____ then reamed out to 8" to a depth of _____ on _____

BOREHOLE LOG (ROCK)

Page 2 of 5

LOCATION MAP:

SITE ID: AmB01 LOCATION ID: 782

SITE COORDINATES (ft.):

N _____ E _____

GROUND ELEVATION (ft. MSL): _____

DRILLING METHOD: _____

DRILLING CONTR.: _____

DATE STARTED: _____

DATE COMPLETED: _____

FIELD REP.: Roger J. Holland

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION _____

SITE CONDITION _____

DEPTH (ft.)	RODING OPERATION	% CORE RECOVERY	% ROCK QUALITY DESIGNATION (RQD)	% DRILLING FLUID RECOVERY	PACKER TEST INTERVAL	SPACING	ORIENTATION	CONDITION	WEATHERING	LITHOLOGY	ROCK TYPE & REMARKS
25	GB		100								see previous previous page
30											
35											
40											
45	GB		100							Sandy Clay	@ 45' very sandy clay, it tan, calc., very soft, forms balls. As above dec. sharply
50											

COMMENTS: _____

DRILLING OPERATIONS

H - 8 1/2 HOLLOW STEM ALGER
C - 4 1/2 CONTINUOUS FLIGHT
GB - GEAR BIT
RA - RA ROCK CORING
WC - WC WIRELINE REEL CORING

BOREHOLE LOG (ROCK)

Page 3 of 5

LOCATION MAP:

SITE ID: AMB01 LOCATION ID: 782
SITE COORDINATES (ft.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
DRILLING METHOD: _____
DRILLING CONTR.: _____
DATE STARTED: _____
DATE COMPLETED: _____
FIELD REP.: Robert F. Holland

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION _____
SITE CONDITION _____

DEPTH (ft.)	DRILLING OPERATION	% CORE RECOVERY	ROCK QUALITY DESIGNATION (RQD)	% DRILLING FLUID RECOVERY	PACKER TEST INTERVAL	SPACING	ORIENTATION	CONDITION	WEATHERING	LITHOLOGY	ROCK TYPE & REMARKS
50	GB		100							clst	at 50' same as above with claystone, dark gray, soft, some sand.
55	GB		100							clst	55' claystone as ab
60	GB		100							clst	at 60' sandstone, lt gray, fq, slight calc. to calcareous, clean.
65											
70											
75											

COMMENTS: _____

DRILLING OPERATIONS

M - 6 1/2" HOLLOW STEM AUGER
C - 4 1/2" CONTINUOUS FLIGHT AUGER
GB - GEAR BIT
NA - 42 ROCK CORING
NC - NO WIRELINE ROCK CORING

BOREHOLE LOG (ROCK)

Page 4 of 5

LOCATION MAP:

SITE ID: Am 801 LOCATION ID: 782
SITE COORDINATES (ft.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
DRILLING METHOD: _____
DRILLING CONTR.: _____
DATE STARTED: _____
DATE COMPLETED: _____
FIELD REP.: Roger J. Holland

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION _____

SITE CONDITION _____

DEPTH (ft.)	DRILLING OPERATION	% CORE RECOVERY	% ROCK QUALITY DESIGNATION (RQD)	% DRILLING FLUID RECOVERY	PACKER TEST INTERVAL	SPACING	ORIENTATION	CONDITION	WEATHERING	LITHOLOGY	ROCK TYPE & REMARKS
75	GB			100						SS	
80	GB			100						SS	sandstone as above becoming dirty and darker gray
85											
90											
95	GB			100						SS	@ 95' clayey sandstone, dark gray, slightly calc., soft.
100											
COMMENTS: _____											

DRILLING OPERATIONS

M - 6 1/2" HOLLOW STEM AUGER
C - 4 1/2" CONTINUOUS FLIGHT AUGER
GB - GEAR BIT
NS - NO ROCK CORING
NC - NO WIRELINE REEF CORING

BOREHOLE LOG (ROCK)

Page 5 of 5

LOCATION MAP:

SITE ID: Amber 1 LOCATION ID: 782
SITE COORDINATES (ft.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
DRILLING METHOD: _____
DRILLING CONTR.: _____
DATE STARTED: _____
DATE COMPLETED: _____
FIELD REP.: Roger F. Holland

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION _____
SITE CONDITION _____

DEPTH (ft.)	BOILING OPERATION	% CORE RECOVERY	ROCK QUALITY DESIGNATION (RQD)	% DRILLING FLUID RECOVERY	PACKER TEST INTERVAL	SPACING	ORIENTATION	CONDITION	WEATHERING	LITHOLOGY	ROCK TYPE & REMARKS
100	GB		100							SS	
105											Clay content inc. with depth
110	GB		100								110 - 120 Claystone, med. to dark gray, very slightly calc., balls up, soft
115											
120											TD 120
125											

COMMENTS:

BOREHOLE OPERATIONS

M - 6 1/2" HOLLOW STEM AUGER
C - 4 1/2" CONTINUOUS FLIGHT AUGER
GB - GEAR BIT
RQ - 42 ROCK CORING
WC - 42 WIRELINE ROCK CORING

JACOBS ENGINEERING GROUP INC.
ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS

WELL COMPLETION RECORD

SITE ID: AM301 LOCATION ID: 782 DATE INSTALLED: 7/9/85
APPROX. SITE COORDINATES: (FT.) N NK E NK
OPEN AREA PER LINEAL FT. (IN²/FT.) 8" Bore Hole with 4.580 PVC Casing
FORMATION OF COMPLETION: Tras Hernandez & C2
FIELD-REP.: Roger Holland DRILLER: Stewart Brothers

COMMENTS: _____

SITE ID: AMB01 LOCATION ID: 782 FIELD REP: Roger Holland
APPROX. SITE COORDINATES (FT.): N NK E NK
GROUND ELEVATION (FT. MSL): NK COMPLETION DATE: 9/9/85

JEG-AL-ENG-1 (8/84) * Hole previously drilled to 120' with 5" bit and cemented back to 65'. Reamed out to 8" hole to 70' on 9/9/85

WELL 783 LOGS

BOREHOLE LOG (ROCK)

Page 1 of 1

LOCATION MAP:.....

SITE ID: AMBOL LOCATION ID: 783
SITE COORDINATES (ft.):
N NK E NK
GROUND ELEVATION (ft. MSL): NK
DRILLING METHOD: Rotary - Gear Bit
DRILLING CONTR.: Stewart Brothers
DATE STARTED: 9/8/85
DATE COMPLETED: 9/8/85
FIELD REP.: Roger F. Holland

GROUNDWATER LEVELS		
DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION west of the No. west Cor. of Tailings Pile
SITE CONDITION level with grass and weed cover.

[illegible]

JEG-AL-ENG-2A (4/85)

WELL COMPLETION RECORD

SITE ID: AMB01 LOCATION ID: 783 DATE INSTALLED: 9/8/85
APPROX. SITE COORDINATES: (FT.) N NK E NK
OPEN AREA PER LINEAL FT. (IN²/FT.) 8" bore hole with 4.5" OD casing
FORMATION OF COMPLETION: Alluvium
FIELD REP.: Roger F. Holland DRILLER: Stewart Brothers

COMMENTS: _____

JE JACOBS ENGINEERING GROUP INC.
 ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS
BOREHOLE/WELL CONSTRUCTION LOG

SITE ID: AMB01 LOCATION ID: 783 FIELD REP: Roger F. Holland
 APPROX. SITE COORDINATES (FT.): N NK E NK
 GROUND ELEVATION (FT. MSL): NK COMPLETION DATE: 9/8/85

BOREHOLE SUMMARY				CONSTRUCTION TIME LOG			
DRILLER: <u>Stewart Brothers</u> RIG TYPE: <u>Gardner Denver 15W</u>				ACTIVITY	START		END TIME
					DATE	TIME	
BIT TYPE	HOLE DIA. (in.)	END DEPTH (ft.)	FLUID TYPE	DRILLING	9/8/85	7:25 am	8:15 am
<u>Hughes</u>	2.0"	50'	<u>Bentonite mud</u>				
CASING SUMMARY				CASING	9/8/85	8:30 am	8:45 am
CASING TYPE*	DESCRIPTION	DIA. (in.)	END DEPTH (ft.)				
B	<u>PVC SCHED 80</u>	4.0"	45.0'				
S	<u>PVC .051" slot</u>	4.0"	50.0'				
B	<u>PVC SCHED 80</u>	4.0"	52.0'	FILTER PACK	9/8/85	8:53 am	10:00 am
P	<u>Steel Casing</u>	8.0"	5.0'				
				SEAL	9/8/85	10:21 am	10:23 am
				BACKFILL	9/8/85	10:45 am	10:55 am
				DEVELOPMENT	9/10/85	5:22 pm	6:47 pm
					9/11/85	7:00 am	8:05 am
				OTHER			

* P-Protective S-Screen B-Blank O-Open N-None
 † Depth from Top of Casing

WELL CONSTRUCTION			WELL DEVELOPMENT
TYPE CODE*	DESCRIPTION	END DEPTH (ft.)	Hole blown, flushed & blown to clean, over night recharge produced 1.4' of water Bailed 7:50 - 8:05 obtained about 2 gts of water.
B	<u>Cement/Bentonite</u>	28.0'	
S	<u>Bentonite Pellets</u>	32.0'	
F	<u>Silica Sand</u>	50.0'	
			COMMENTS: _____ _____ _____ _____

* B - Backfill S - Seal F - Filter Pack
 † Depth from Ground Surface

WELL 785 LOGS

JACOBS ENGINEERING GROUP INC.
ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS

WELL COMPLETION RECORD

SITE ID: AMB01 LOCATION ID: 785 DATE INSTALLED: 9/11/85
APPROX. SITE COORDINATES: (FT.) N NK E NK
OPEN AREA PER LINEAL FT. (IN²/FT.) 8" Bore hole with 4.5" OD PVC casing
FORMATION OF COMPLETION: Tres Hermanos B (Mancoas)
FIELD REP.: Roger Holland DRILLER: Stewart Brothers

COMMENTS: _____

JE JACOBS ENGINEERING GROUP INC.
ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS
BOREHOLE/WELL CONSTRUCTION LOG

SITE ID: AM301 LOCATION ID: 785 FIELD REP: Roger Holland
 APPROX. SITE COORDINATES (FT.): N NK E NK
 GROUND ELEVATION (FT. MSL): NK COMPLETION DATE: 9/11/85

BOREHOLE SUMMARY				CONSTRUCTION TIME LOG			
DRILLER: <u>Stewart Brothers</u>				ACTIVITY	START		END TIME
RIG TYPE: <u>Gardner Denver 15W</u>					DATE	TIME	
BIT TYPE	HOLE DIA. (in.)	END DEPTH (ft.)	FLUID TYPE	DRILLING	9/11/85	9:34 AM	11:00 AM
<u>Hughes</u>	<u>8.0"</u>	<u>45'</u>	<u>Bentonite Mud</u>				
				CASING	9/11/85	11:30 AM	12:00 AM
CASING SUMMARY				FILTER PACK	9/11/85	12:04 PM	12:24 PM
CASING TYPE*	DESCRIPTION	DIA. (in.)	END DEPTH (ft.)	SEAL	9/11/85	12:26 PM	12:36 PM
<u>B</u>	<u>PVC SCHED 80</u>	<u>4.0"</u>	<u>40'</u>	BACKFILL	9/11/85	12:58 PM	1:00 PM
<u>S</u>	<u>PVC .051" Blotted</u>	<u>4.0"</u>	<u>45.0'</u>	DEVELOPMENT	9/12/85	3:30 PM	6:17 PM
<u>B</u>	<u>PVC SCHED 80</u>	<u>4.0"</u>	<u>47.6'</u>	OTHER Probe	9/11/85	11:00 AM	11:30 AM
<u>P</u>	<u>2" CP Steel Casing</u>	<u>8.0"</u>	<u>5.0'</u>				
* P-Protective S-Screen B-Blank O-Open N-None							
* Depth from Top of Casing							
WELL CONSTRUCTION				WELL DEVELOPMENT			
TYPE CODE*	DESCRIPTION	END DEPTH (ft.)		Blew and flushed hole to clean.			
<u>B</u>	<u>Cement/Bentonite Grout</u>	<u>28.0'</u>		Blew hole 10 min to dry.			
				Let set 15 min - blow - very little water. Inject to clean & develop further. Blew dry.			
<u>S</u>	<u>Heavy Bentonite mud</u>	<u>33.0'</u>		Bail 6:00 PM - 6:17 PM < 2 gph H ₂ O.			
<u>F</u>	<u>Silica Sand</u>	<u>45.0'</u>		water level on 9/13/85 42.7'			
				COMMENTS:			
* B - Backfill S - Seal F - Filter Pack							
* Depth from Ground Surface							

WELL 786 LOGS

BOREHOLE LOG (ROCK)

Page 1 of 2

LOCATION MAP:

SITE ID: AMB01 LOCATION ID: 786
SITE COORDINATES (ft.):
N NK E NK
GROUND ELEVATION (ft. MSL): NK
DRILLING METHOD: Rotary - Gear Bit
DRILLING CONTR.: Stewart Brothers
DATE STARTED: 9/11/85
DATE COMPLETED: _____
FIELD REP.: Roger Holland

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION

SITE CONDITION

DEPTH (ft.)	BOHNG OPERATION	% CORE RECOVERY	% ROCK QUALITY DESIGNATION (RQD)	% DRILLING FLUID RECOVERY	PACKER TEST INTERVAL	SPACING	ORIENTATION	CONDITION	WEATHERING	LITHOLOGY	ROCK TYPE & REMARKS
0	GB			100						Sand & Clay	Sandy clay - clayey sand, tan to buff, calcareous 0-30'
5											
10											
15											
20											Some fossil (?) frags noted @ 20-25'
25											

COMMENTS: Hole TD'd @ 35' because it was suspected that the Tres Hermanas "E" is not present here and any further drilling would encounter the Tres Hermanas "B". Well set in upper member.

BOHNG OPERATIONS

M - 6 1/2" HOLLOW STEM AUGER
C - 4 1/2" CONTINUOUS FLIGHT AUGER
GB - GEAR BIT
NR - NO ROCK CORING
NC - NO WIRELINE REEF CORING

BOREHOLE LOG (ROCK)

Page 2 of 2

LOCATION MAP:

SITE ID: AMBOL LOCATION ID: 786

SITE COORDINATES (ft.):

N NA E NA

GROUND ELEVATION (ft. MSL): _____

DRILLING METHOD: _____

DRILLING CONTR.: _____

DATE STARTED: 9/11/95

DATE COMPLETED: _____

FIELD REP.: Roger Holland

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION

SITE CONDITION

[illegible]

COMMENTS:

REC'D OF [64-144]

H - 6 1/2 HOLLOW STEM AUGER
 C - 4 1/2 CONTINUOUS FLIGHT AUGER
 GB - GEAR BIT
 A1 - NO ROCKER CORING
 A2 - NO WIRELINE ROCKER CORING

JEG-AL-ENG-2A (4/85)

WELL COMPLETION RECORD

SITE ID: AMB01 LOCATION ID: 786 DATE INSTALLED: 9/11/95
APPROX. SITE COORDINATES: (FT.) N NK E NK
OPEN AREA PER LINEAL FT. (IN²/FT.) 9" bare hole with 4.5" ID PVC casing,
FORMATION OF COMPLETION: Upper Mancos/Alluvial T.C. 1?
FIELD REP.: Roger Holland DRILLER: Stewart Brothers

COMMENTS: The seal length was increased from 2.0' to 5.0'
to insure against grout migration into filter sand.

JACOBS ENGINEERING GROUP INC.
ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS

BOREHOLE/WELL CONSTRUCTION LOG

SITE ID: AMB01 LOCATION ID: 786 FIELD REP: Roger Holland
APPROX. SITE COORDINATES (FT.): N NK E NK
GROUND ELEVATION (FT. MSL): NK COMPLETION DATE: 9/11/85

BOREHOLE SUMMARY				CONSTRUCTION TIME LOG				
DRILLER: <u>Stewart Brothers</u>				ACTIVITY	START		END TIME	
RIG TYPE: <u>Gardner Denver 15W (Rotary)</u>					DATE	TIME		
BIT TYPE	HOLE DIA. (in.)	END DEPTH (ft.)	FLUID TYPE	DRILLING	9/11/85	2:11 pm	2:55 pm	
<u>Hughes</u> <u>Multi Tooth</u>	<u>8.0"</u>	<u>35.0'</u>	<u>Bentonite</u> <u>mud</u>					
				CASING	9/11/85	3:50 pm	4:04 pm	
CASING SUMMARY				FILTER PACK	9/11/85	4:10 pm	4:28 pm	
CASING TYPE*	DESCRIPTION		DIA. (in.)	END DEPTH (ft.)	SEAL	9/11/85	4:29 pm	5:05 pm
<u>B</u>	<u>PVC SCHED. 80</u>		<u>4.0"</u>	<u>30.0'</u>	BACKFILL	9/11/85	4:59 pm	5:05 pm
<u>S</u>	<u>PVC .051" slotted</u>		<u>4.0"</u>	<u>35.0'</u>	DEVELOPMENT	9/13/85	7:25 AM	11:08 AM
<u>B</u>	<u>PVC SCHED. 80</u>		<u>4.0"</u>	<u>37.0'</u>				
<u>P</u>	<u>5' length Steel casing</u>		<u>8.0"</u>	<u>5.0'</u>	OTHER	9/11/85	3:15 pm	3:48 pm
					<u>Probing</u>			
* P-Protective S-Screen B-Blank O-Open N-None								
† Depth from Top of Casing								
WELL CONSTRUCTION				WELL DEVELOPMENT				
TYPE CODE*	DESCRIPTION		END DEPTH (ft.)	Flush & blow hole to clean until 8:33 am				
<u>B</u>	<u>Cement/Bentonite Grout</u>		<u>20.0'</u>	Blow: 8:33 - 8:38 am				
<u>S</u>	<u>Heavy Bentonite mud</u>		<u>25.0'</u>	Set: 8:38 - 8:50 am				
<u>F</u>	<u>Silica Sand</u>		<u>35.0'</u>	Blow: 8:50 - 9:00 am No water				
				Flush & surge				
				Blow dry				
				1st set 9:20 - 9:30 am				
				COMMENTS: <u>Blow 9:30 - 9:35 am</u>				
				<u>very little water produced</u>				
				<u>Flush & blow till 9:50 am</u>				
				<u>Exit 9:50 - 11:08 am</u>				
* B - Backfill B - Seal F - Filter Pack				<u>Hole making water</u>				
† Depth from Ground Surface				<u>sample collected PH 7.77</u>				

WELL 787 LOGS

BOREHOLE LOG (ROCK)

Page 1 of 4

LOCATION MAP:

SITE ID: AMB01 LOCATION ID: 787

SITE COORDINATES (11.):

N NK E NK

GROUND ELEVATION (ft. MSL): NK

DRILLING METHOD: Rotary - Gear Bit

DRILLING CONTR.: Stewart Brothers

DATE STARTED: 9/12/85

DATE COMPLETED: 9/12/85

FIELD REP.: Roger Holland

GROUNDWATER LEVELS

DATE	TIME	DEPTH (11.)

LOCATION DESCRIPTION Due south of the So. East Cor. of Tailings Pile
SITE CONDITION Leaves sandy with weed cover

DEPTH (FT.)	DRILLING OPERATION	% CORE RECOVERY	% ROCK QUALITY DESIGNATION (RQD)	% DRILLING FLUID RECOVERY	PACKER TEST INTERVAL	SPACING	ORIENTATION	CONDITION	WEATHERING	LITHOLOGY	ROCK TYPE & REMARKS
0	GB			100						sand	sandy clay, tan to buff, calcareous, soft. Alluvium
										clay	
5											
10											
15											
20											
25											

COMMENTS:

DRILLING OPERATIONS

M - 8 1/2 HOLLOW STEM AUGER
C - 4 1/2 CONTINUOUS FLIGHT AUGER
GB - GEAR BIT
NA - NO ROCK CORING
AC - NO WIRELINE REEF CORING

BOREHOLE LOG (ROCK)

Page 2 of 4

LOCATION MAP:

SITE ID: Ambel LOCATION ID: 787
SITE COORDINATES (N.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
DRILLING METHOD: _____
DRILLING CONTR.: _____
DATE STARTED: _____
DATE COMPLETED: _____
FIELD REP.: Roger Holland

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION _____
SITE CONDITION _____

DEPTH (ft.)	HOLOG OPERATION	% CORE RECOVERY	% ROCK QUALITY DESIGNATION (ROD)	% DRILLING FLUID RECOVERY	PACKER TEST INTERVAL	SPACING	ORIENTATION	CONDITION	WEATHERING	LITHOLOGY	ROCK TYPE & REMARKS
25	GB				100					clay sand	a) 25' same as above with some yellow to orange ss frags, fine gr. calc. and hematite frags. This is the same horizon as found in other holes marking the basal alluvial material.
30	GB				100					clst	
35											a 30' same as above dec. clay-claystone, tan to lt tan, calc.
40											
45											
50											

COMMENTS:

DRILLING OPERATIONS
H - 6 1/2 HOLLOW STEM AUGER
C - 4 1/2 CONTINUOUS FLIGHT AUGER
GB - GEAR BIT
NA - NO ROCK CORING
ND - NO WIRELINE ROCK CORING

BOREHOLE LOG (ROCK)

Page 3 of 4

LOCATION MAP:

SITE ID: AmB01 LOCATION ID: 787
SITE COORDINATES (ft.):
N _____ E _____
GROUND ELEVATION (ft. MSL): _____
DRILLING METHOD: _____
DRILLING CONTR.: _____
DATE STARTED: _____
DATE COMPLETED: _____
FIELD REP.: Regis Holland

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION _____
SITE CONDITION _____

DEPTH (ft.)	DRILLING OPERATION	% CORE RECOVERY	% ROCK QUALITY DESIGNATION (RQD)	% DRILLING FLUID RECOVERY	PACKER TEST INTERVAL	SPACING	ORIENTATION	CONDITION	WEATHERING	LITHOLOGY	ROCK TYPE & REMARKS
50	GB			100						Clst	@ 50' becoming very sandy — weathered(?) sandstone, tan to yellow tan, calc.
55	GB			100						↓	@ 55' some sandstone frags and same as above.
60	GB			100						↓	@ 60' sandy claystone, dark gray to blk, calcareous, soft.
65											
70										Clst 65	@ 70' as ab with sandstone, white to lt gray, fg. The lighter colored frags are clean. Celadonite common.
75										↓	

COMMENTS: _____

DRILLING OPERATIONS

H - 6 1/2" HOLLOW STEM AUGER
C - 4 1/2" CONTINUOUS FLIGHT AUGER
GB - GEAR BIT
NS - NO ROCK CORING
NC - NO WIRELINE ECLIPSE CORING

BOREHOLE LOG (ROCK)

Page 4 of 4

LOCATION MAP:

ANN

SITE ID: AMB01 LOCATION ID: 287

SITE COORDINATES (11.):

N _____ **E** _____

GROUND ELEVATION (ft. MSL):

DRILLING METHOD: _____

DRILLING CONTR.:

DATE STARTED: _____

DATE COMPLETED: _____

FIELD REP.: Roger Holland

GROUNDWATER LEVELS

DATE _____

TIME

DEPTH (11.)

LOCATION DESCRIPTION

SITE CONDITION

[illegible]

COMMENTS:

BEING FILED IN

M - 6 1/2 HOLLOW STEM AUGER
C - 6 1/2 CONTINUOUS FLIGHT AUGER
GB - GEAR BIT
A2 - A2 ROCK CORING
A2 - A2 WIRELINE S.O. CORING

JACOBS ENGINEERING GROUP INC.
ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS

WELL COMPLETION RECORD

SITE ID: AMB01 LOCATION ID: 787 DATE INSTALLED: 9/12/85

APPROX. SITE COORDINATES: (FT.) N PK E AK

OPEN AREA PER LINEAL FT. (IN²/FT.) 8" bore hole with 4.5" ID PVC casing

FORMATION OF COMPLETION: Tres Hermanos IB

FIELD-REP.: Roger Holland DRILLER: Stewart Brothers

COMMENTS: _____

JACOBS ENGINEERING GROUP INC.
ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS

BOREHOLE/WELL CONSTRUCTION LOG

SITE ID: AMB01 LOCATION ID: 787 FIELD REP: Roger Holland
APPROX. SITE COORDINATES (FT.): N NK E NK
GROUND ELEVATION (FT. MSL): NK COMPLETION DATE: 9/12/85

BOREHOLE SUMMARY				CONSTRUCTION TIME LOG			
DRILLER: <u>Stewart Brothers</u>				ACTIVITY	START		END TIME
RIG TYPE: <u>Gardner Denver 15W (Rotary)</u>					DATE	TIME	
BIT TYPE	HOLE DIA. (in.)	END DEPTH (ft.)	FLUID TYPE	DRILLING	9/12/85	7:25 AM	9:00 AM
<u>Hughes</u> <u>mill Tooth</u>	<u>8.0"</u>	<u>8'</u>	<u>Bentonite mud</u>	CASING	9/12/85	10:00 AM	10:16 AM
CASING SUMMARY				FILTER PACK	9/12/85	10:26 AM	10:50 AM
CASING TYPE*	DESCRIPTION	DIA. (in.)	END DEPTH (ft.)	SEAL	9/12/85	11:04 AM	11:07 AM
<u>B</u>	<u>PVC SCHED. 80</u>	<u>4.0"</u>	<u>75.0'</u>	BACKFILL	9/12/85	11:26 AM	11:30 AM
<u>S</u>	<u>PVC .051" slotted screen</u>	<u>4.0"</u>	<u>80.0'</u>	DEVELOPMENT	9/13/85	11:50 AM	2:10 PM
<u>B</u>	<u>PVC SCHED. 80</u>	<u>4.0"</u>	<u>80.0'</u>	OTHER	9/12/85	9:20 AM	9:43 AM
<u>P</u>	<u>Steel casing</u>	<u>8.0"</u>	<u>5.0'</u>	<u>Probing</u>			
* P-Protective S-Screen B-Blank O-Open N-None				WELL DEVELOPMENT			
* Depth from Top of Casing				Blow, Flush and surge to clean			
WELL CONSTRUCTION				Blow dry 12:15 - 12:20 PM			
TYPE CODE*	DESCRIPTION	END DEPTH (ft.)		Set: 12:20 - 12:35 PM			
<u>B</u>	<u>Cement/Bentonite Grout</u>	<u>66.0'</u>		Blow hole - dirty water			
<u>S</u>	<u>Heavy Bentonite mud</u>	<u>70.0'</u>		Clean 12:35 - 1:20 PM			
<u>F</u>	<u>Silica sand</u>	<u>80.0'</u>		1st set: 1:20 - 1:35 PM			
				COMMENTS: <u>Blow 1:35 - 1:40 PM</u>			
				<u>Very little water</u>			
				<u>Bail - 1:50 - 2:10 PM</u>			
				<u>Only 1qt water removed</u>			
* B - Backfill S - Seal F - Filter Pack							
* Depth from Ground Surface							

WELL 790 LOGS

PROJECT AMBROSIA LAKE SITE, NEW MEXICO

Page 1 of 1

LOG OF WELL BORING NO. 790JOB NO. AMB01 DATE 09/22/85TOTAL DEPTH 30.0 feetSURFACE ELEVATION 7002.90

RIG TYPE

TOP OF FILTER PACK 21.00BORING TYPE ROTARYWELL CASING TYPE 4.0-IN. SCHED. 80 PVCLOCATION N 56135.90 E 59590.20COMPLETION TRES HERMANOS CDATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
0		Installed 4-in. PVC well to 30 feet.		CL	ALLUVIUM: SANDY CLAY, fine sand, calcareous, soft, lt. tan.
5		Placed steel protective casing to 3 feet.			Note: Lithology log taken from adjacent bore hole 789.
10		Installed grout to 17 feet.			
15					Note: Sand content increasing from 15 feet.
20		Installed bentonite mud seal from 17 to 21 ft.			Some oxidized zones of orange tan.
25		Placed 8-12 filter pack from 21 to 30 feet		SP	MANCOS SHALE FM., TRES HERMANOS C upper), MEMBER, .. SANDSTONE, fine, calcareous, greenish tan with local zones of yellow to lt. orange.
30		Placed .051 slot well screen from 23 to 28 ft. with 2 ft. sump below.			TD AT 30 FEET.
35					
40					
45					
50					

GROUNDWATER

DEPTH	HOUR	DATE
▽		
▽		
▽		

JEG TAC TEAM

WELL COMPLETION RECORD

SITE ID: AMB01 LOCATION ID: 790 DATE INSTALLED: 9/23/85
APPROX. SITE COORDINATES: (FT.) N NK E NK
OPEN AREA PER LINEAL FT. (IN²/FT.) 8" bore hole with 9.5"OD/4.0"ID PVC casing
FORMATION OF COMPLETION: Tres Hermanos "C"
FIELD REP.: Roger Holland DRILLER: Stewart Brothers

COMMENTS: _____

JE JACOBS ENGINEERING GROUP INC.
ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS
BOREHOLE/WELL CONSTRUCTION LOG

SITE ID: AMB01 LOCATION ID: 790 FIELD REP: Roger Holland
 APPROX. SITE COORDINATES (FT.): N NK E NK
 GROUND ELEVATION (FT. MSL): NK COMPLETION DATE: 9/23/85

BOREHOLE SUMMARY				CONSTRUCTION TIME LOG				
DRILLER: <u>Stewart Brothers</u>				ACTIVITY	START		END TIME	
RIG TYPE: <u>Gardner Denver 15W (Rotary)</u>					DATE	TIME		
BIT TYPE	HOLE DIA. (in.)	END DEPTH (ft.)	FLUID TYPE	DRILLING	9/22/85	5:30 pm	6:55 pm	
<u>Hughes mill teeth</u>	<u>8.0"</u>	<u>30.0'</u>	<u>Bentonite mud</u>					
				CASING	9/23/85	8:55 am	9:05 am	
CASING SUMMARY				FILTER PACK	9/23/85	9:17 am	9:48 am	
CASING TYPE*	DESCRIPTION		DIA. (in.)	END DEPTH (ft.)	SEAL	9/23/85	9:50 am	10:00 am
<u>B</u>	<u>PVC SCHED 80</u>		<u>4.0"</u>	<u>25'</u>				
<u>S</u>	<u>PVC .051" sloHed</u>		<u>4.0"</u>	<u>30'</u>	BACKFILL	9/23/85	10:18 am	10:14 am
<u>B</u>	<u>PVC SCHED 80</u>			<u>30'</u>				
<u>P</u>	<u>steel casing</u>		<u>8.0"</u>	<u>5.0'</u>	DEVELOPMENT	9/24/85	9:20 pm	6:45 pm
						9/25/85	7:45 am	10:20 am
				OTHER Probing	9/23/85	7:42 am	8:13 am	
* P-Protective S-Screen B-Blank O-Open N-None								
* Depth from Top of Casing								
WELL CONSTRUCTION				WELL DEVELOPMENT				
TYPE CODE*	DESCRIPTION		END DEPTH (ft.)	Hole developed using portable air-compressor Hole was continuously blown, flushed, surged and blown dry for approx. 7 hrs. Hole blown dry and let set several times. Hole making small amt. of water.				
<u>B</u>	<u>Cement/Bentonite Grout</u>		<u>17.0'</u>					
<u>S</u>	<u>Heavy Bentonite mud</u>		<u>21.0'</u>					
<u>F</u>	<u>Silica Sand</u>		<u>30.0'</u>					
				COMMENTS:				
* B - Backfill S - Seal F - Filter Pack								
* Depth from Ground Surface								

WELL 792 LOGS

PROJECT AMBROSIA LAKE SITE, NEW MEXICOPage 1 of 1
LOG OF WELL BORING NO. 792JOB NO. AMB01 DATE 09/24/85TOTAL DEPTH 20.0 feetSURFACE ELEVATION 6999.00

RIG TYPE

TOP OF FILTER PACK

BORING TYPE ROTARYWELL CASING TYPE 4.0-IN. SCHED. 80 PVCLOCATION N 55724.90 E 60649.10COMPLETION ALLUVIUMDATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
0		Installed 4-in. PVC well to 20.0 feet.		CL	ALLUVIUM: SANDY CLAY, calcareous, soft, tan. Note: Sand content increasing.
		Placed steel protective casing to 3 feet.		SC	
5		Installed grout to 6.0 feet.			
		Installed bentonite mud seal from 6.0 to 10.0 ft.			
10		Placed 8-12 filter pack from 10 to 20 feet			
15				CL	
		Placed .051 slot well screen from 13.0 to 18.0 ft. with 2 ft. sump below.			
20					
25					TD AT 20 FEET.
30					
35					
40					
45					
50					

GROUNDWATER

DEPTH	HOUR	DATE
13.6	17:05	9-25-85
16.9	13:00	1-9-91

JEG TAC TEAM

WELL COMPLETION RECORD

SITE ID: Am301 LOCATION ID: 792 DATE INSTALLED: 9/24/85
APPROX. SITE COORDINATES: (FT.) N NK E NK
OPEN AREA PER LINEAL FT. (IN²/FT.) 9" bore hole with 4.5 ID / 4.0 ID PVC casing
FORMATION OF COMPLETION: Alluvium
FIELD REP.: Roger Holland DRILLER: Stewart Brothers

COMMENTS: _____

BOREHOLE SUMMARY				CONSTRUCTION TIME LOG			
DRILLER: <u>Stewart Brothers</u>				ACTIVITY	START		END TIME
RIG TYPE: <u>Gardner Denver 15W (Rotary)</u>					DATE	TIME	
BIT TYPE	HOLE DIA. (in.)	END DEPTH (ft.)	FLUID TYPE	DRILLING	9/24/85	7:25 AM	7:35 AM
<i>Hughes Mill Teeth</i>	8.0"	20.0'	<i>Bentonite mud</i>				
CASING SUMMARY				CASING	9/24/85	7:55 AM	8:25 AM
CASING TYPE*	DESCRIPTION	DIA. (in.)	END DEPTH (ft.)	FILTER PACK	9/24/85	8:47 AM	9:10 AM
B	PVC SCHED 80	4.0"	15'	SEAL <i>Heavy Bent. mud</i>	9/24/85	9:27 AM	9:30 AM
S	PVC .051" grooved	4.0"	20'				
B	PVC SCHED 80	4.0"	22'	BACKFILL	9/24/85	9:34 AM	9:37 AM
P	Steel casing	8.0"	5'	DEVELOPMENT	9/25/85	11:10 AM	3:30 PM
				OTHER			
* P-Protective S-Screen B-Blank O-Open N-None							
* Depth from Top of Casing							
WELL CONSTRUCTION				WELL DEVELOPMENT			
TYPE CODE*	DESCRIPTION	END DEPTH (ft.)		<i>Hole blown, flushed and surged to clean. Blown dry several times then allowed to set then blown to check for recovery. Hole making some water</i>			
B	Cement/Bent. Grout 0-6'	6'					
S	Heavy Bent. mud 6-10'	10'					
F	Silica Sand 10-20'	20'					
				COMMENTS: _____			
* B - Backfill S - Seal F - Filter Pack							
* Depth from Ground Surface							

WELL 793 LOGS

PROJECT AMBROSIA LAKE SITE, NEW MEXICO

Page 1 of 1

LOG OF WELL BORING NO. 793JOB NO. AMB01DATE 09/24/85TOTAL DEPTH 28.0 feetSURFACE ELEVATION 6996.60

RIG TYPE _____

TOP OF FILTER PACK _____

BORING TYPE ROTARYWELL CASING TYPE 4.0-IN.SCHED.80 PVCLOCATION N 55493.00 E 60225.70COMPLETION ALLUVIUMDATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
0		Installed 4-in. PVC well to 28.0 feet. Placed steel protective casing to 3 feet. Installed grout to 9.0 feet.		CL SC	ALLUVIUM: SANDY CLAY to clayey sand, fine grained sand, calcareous, soft, tan.
5		Installed bentonite mud seal from 9.0 to 13.0 ft.			
10					
15					Note: Clay content increasing.
20		Placed 8-12 filter pack from 21 to 26 feet		CH	MANCOS SHALE FM.: CLAYSTONE-SHALE, calcareous, highly weathered, fissile, cream to lt. tan.
25					
30		Placed .051 slot well screen from 26.0 to 28.0 ft. with 2 ft. sump below.			TD AT 28 FEET.
35					
40					
45					
50					

GROUNDWATER

DEPTH	HOUR	DATE
19.4	14:18	10-3-85
22.8	13:44	1-6-89

JEG TAC TEAM

WELL COMPLETION RECORD

SITE ID: Am801 LOCATION ID: 793 DATE INSTALLED: 9/24/85
APPROX. SITE COORDINATES: (FT.) N NK E NK
OPEN AREA PER LINEAL FT. (IN²/FT.) 8" bore hole with 4.5" ID / 4.0" ID PVC casing
FORMATION OF COMPLETION: Alluvium
FIELD REP.: Roger Holland DRILLER: Stewart Brothers

COMMENTS: _____

SITE ID: AmBoi LOCATION ID: 793 FIELD REP: Roger Holland
APPROX. SITE COORDINATES (FT.): N NK E NK
GROUND ELEVATION (FT. MSL): NK COMPLETION DATE: 9/24/95

BOREHOLE SUMMARY				CONSTRUCTION TIME LOG			
DRILLER: <u>Stewart Brothers</u>				ACTIVITY	START		END TIME
RIG TYPE: <u>Gardner Denver 15W (Rotary)</u>					DATE	TIME	
BIT TYPE	HOLE DIA. (in.)	END DEPTH (ft.)	FLUID TYPE	DRILLING	9/24/85	11:10 Am	11:35 Am
Hughes Mill Tooth	8.0"	28.0'	Bentonite mud				
CASING SUMMARY				CASING	9/24/85	12:00 Noon	12:13 pm
CASING TYPE*	DESCRIPTION	DIA. (in.)	END DEPTH (ft.)				
B	PVC SCHED 80	4.0"	23'				
S	PVC 0.051" slotted	4.0"	28'				
B	PVC SCHED 80	4.0"	30'				
P	Steel casing	8.0"	5.0'	FILTER PACK	9/24/85	12:18 pm	12:37 pm
				SEAL	9/24/85	12:42 pm	12:44 pm
				BACKFILL	9/24/85	12:46 pm	12:50 pm
				DEVELOPMENT	9/25/85	4:30 pm	6:30 pm
				OTHER	9/26/85	8:00 AM	9:35 AM
* P-Protective S-Screen B-Blank O-Open N-None							
* Depth from Top of Casing							
WELL CONSTRUCTION				WELL DEVELOPMENT			
TYPE CODE*	DESCRIPTION	END DEPTH (ft.)	Hole continuously blown, flushed and surged to clean.				
B	Cement/Bent. Grout 9' to surf.	9'	Blown dry and let set then blown to check for recovery				
S	Heavy Bent. mud 19-13'	13'	Several times.				
F	silica sand 13-28'	28'	Hole making a small amt. of water				
* B - Backfill S - Seal F - Filter Pack			COMMENTS: _____				
* Depth from Ground Surface			_____				

WELL 794 LOGS

BOREHOLE LOG (ROCK)

Page 1 of 1

LOCATION MAP:

SITE ID: AMB01 LOCATION ID: 794
SITE COORDINATES (ft.):
N NK E NK
GROUND ELEVATION (ft. MSL): NK
DRILLING METHOD: Rotary - Gear Bit
DRILLING CONTR.: Stewart Brothers
DATE STARTED: 9/24/85
DATE COMPLETED: 9/24/85
FIELD REP.: Roger Holland

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION South of the So. edge of the Tailings pile
SITE CONDITION Level with Blue Grama grass cover.

DEPTH (ft.)	BOHNG OPERATION	% CORE RECOVERY	ROCK QUALITY DESIGNATION (RQD)	% DRILLING FLUID RECOVERY	PACKER TEST INTERVAL	SPACING	ORIENTATION	CONDITION	WEATHERING	LITHOLOGY	ROCK TYPE & REMARKS
0	60		100							sand & clay	sandy clay, tan, fq, calc.
5										ss	sandstone, tan to yellow to red orange with hematite frags - gravelly. correlates with basal alluvium at other bore holes
10											
15										15-22'	15-22' clay, tan, soft, calc. weathered manco.
20											
22											TD 22.0'

COMMENTS:

BOHNG OPERATIONS

H - 6 1/2 HOLLOW STEM AUGER
C - 4 1/2 CONTINUOUS FLIGHT AUGER
GB - GEAR BIT
NK - NO ROCK CORING
NG - NO WIRELINE REEF CORING

WELL COMPLETION RECORD

SITE ID: AMB01 LOCATION ID: 794 DATE INSTALLED: 9/24/85
APPROX. SITE COORDINATES: (FT.) N NK E NK
OPEN AREA PER LINEAL FT. (IN²/FT.) 8" bore hole with 4.5" ID / 4.0" ID PVC casing
FORMATION OF COMPLETION: Aluminum
FIELD REP.: Roger Holland DRILLER: Stewart Brothers

COMMENTS: _____

JE JACOBS ENGINEERING GROUP INC.
ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS
BOREHOLE/WELL CONSTRUCTION LOG

SITE ID: AMBOI LOCATION ID: 794 FIELD REP: Roger Holland
APPROX. SITE COORDINATES (FT.): N NK E NK
GROUND ELEVATION (FT. MSL): NK COMPLETION DATE: 9/24/85

BOREHOLE SUMMARY				CONSTRUCTION TIME LOG			
DRILLER: <u>Stewart Brothers</u>				ACTIVITY	START		END TIME
RIG TYPE: <u>Gardner Denver 15W (Rotary)</u>					DATE	TIME	
BIT TYPE	HOLE DIA. (In.)	END DEPTH (ft.)	FLUID TYPE	DRILLING	9/24/85	3:50 pm	4:00 pm
Hughes Mull Teeth	8.0"	22.0'	Bentonite mud				
				CASING	9/24/85	4:20 pm	4:30 pm
CASING SUMMARY				FILTER PACK	9/24/85	4:37 pm	4:55 pm
CASING TYPE*	DESCRIPTION	DIA. (In.)	END DEPTH (ft.)	SEAL <i>Heavy Bent mud</i>	9/24/85	4:58 pm	4:59 pm
B	PVC SCHED 80	4.020	17'	BACKFILL	9/24/85	5:01 pm	5:11 pm
S	PVC 0.051" Galled	4.0"	22'	DEVELOPMENT	9/26/85	11:20 AM	3:00 pm
B	PVC SCHED. 80	4.0"	24'	OTHER			
P	Steel Casing	8.0"	5'				
* P-Protective S-Screen B-Blank O-Open N-None							
* Depth from Top of Casing							
WELL CONSTRUCTION				WELL DEVELOPMENT			
TYPE CODE*	DESCRIPTION	END DEPTH (ft.)	Hole blown, flushed and surged to clean.				
B	Cement/Bentonite Grout 0-5'	5'	Hole blown dry, allowed to set then blown dry to check recovery several times.				
S	Heavy Bentonite 5-7'	7'	Hole making some water.				
F	Silica sand 7-22'	22'	COMMENTS: _____				
* B - Backfill S - Seal F - Filter Pack				_____			
* Depth from Ground Surface				_____			

WELL 796 LOGS

PROJECT AMBROSIA LAKE SITE, NEW MEXICO

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LOG OF WELL BORING NO. 796

JOB NO. AMB01 DATE 09/25/85TOTAL DEPTH 23.0 feetSURFACE ELEVATION 6955.10

RIG TYPE

TOP OF FILTER PACK 10.00BORING TYPE ROTARYWELL CASING TYPE 4.0-IN. SCHED. 80 PVCLOCATION N 52337.40 E 58319.60COMPLETION ALLUVIUM; (dry)DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
0		Installed 4-in. PVC well to 23.0 feet.		CL	ALLUVIUM:
		Placed steel protective casing to 3 feet.			SANDY CLAY, with fine sand, soft, calcareous, tan.
		Installed grout to 8.0 feet.			
5					
		Installed bentonite mud seal from 8.0 to 10 ft.			
10		Placed 8-12 filter pack from 10 to 23.0 feet		SC	CLAYEY SAND, fine, calcareous, tan.
15				CL	SANDY CLAY, tan, with sandstone gravelly fragments, yellow to orange, little hematite frags. Considered to be basal alluvium deposit.
		Placed .051 slot well screen from 16.0 to 21.0 ft. with 2 ft. sump below.		CH	MANCOS SHALE FM.: CLAYSTONE-SHALE, little sand, fissile, dark grey.
20					
25					TD AT 23 FEET.
30					
35					
40					
45					
50					

GROUNDWATER

DEPTH	HOUR	DATE
1		
2		

JEG TAC TEAM

JACOBS ENGINEERING GROUP INC.
ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS

WELL COMPLETION RECORD

SITE ID: AMB01 LOCATION ID: 796 DATE INSTALLED: 9/25/85

APPROX. SITE COORDINATES: (FT.) N NK E NK

OPEN AREA PER LINEAL FT. (IN²/FT.) 8" hole with 4.5" ID / 4.0" ID PVC casing

FORMATION OF COMPLETION: Alluvium

FIELD REP.: Roger Holland DRILLER: Stewart Brothers

COMMENTS: _____

JACOBS ENGINEERING GROUP INC.
ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS

BOREHOLE/WELL CONSTRUCTION LOG

SITE ID: AMB01 LOCATION ID: 796 FIELD REP: Roger Holland

APPROX. SITE COORDINATES (FT.): N NK E NK

GROUND ELEVATION (FT. MSL): NK COMPLETION DATE: 9/25/85

BOREHOLE SUMMARY				CONSTRUCTION TIME LOG			
DRILLER: <u>Stewart Brothers</u>				ACTIVITY	START		END TIME
RIG TYPE: <u>Gardner Denver 154 (Rotary)</u>					DATE	TIME	
BIT TYPE	HOLE DIA. (in.)	END DEPTH (ft.)	FLUID TYPE	DRILLING	9/25/85	11:25 am	11:40 am
<u>Hughes Mill Teeth</u>	<u>8.0"</u>	<u>23.0'</u>	<u>Bentonite mud.</u>				
				CASING	9/25/85	11:50 am	12:00 noon
CASING SUMMARY				FILTER PACK	9/25/85	12:06 pm	12:17 pm
CASING TYPE*	DESCRIPTION	DIA. (in.)	END DEPTH (ft.)	SEAL <u>HEAVY Bent. mud.</u>	9/25/85	12:21 pm	12:23 pm
<u>B</u>	<u>PVC SCHED 80</u>		<u>18'</u>				
<u>S</u>	<u>PVC 0.051" slotted</u>		<u>23'</u>	BACKFILL	9/25/85	12:26 pm	12:30 pm
<u>B</u>	<u>PVC SCHED 80</u>		<u>25'</u>				
<u>P</u>	<u>steel casing</u>		<u>5.0'</u>	DEVELOPMENT	9/26/85	3:20 pm	6:20 pm
				OTHER			
* P-Protective S-Screen B-Blank O-Open N-None							
† Depth from Top of Casing							
WELL CONSTRUCTION				WELL DEVELOPMENT			
TYPE CODE*	DESCRIPTION	END DEPTH (ft.)		Hole blown, Flushed and surged to clean. Hole cleaned up well. Hole allowed to set after blowing dry then blown to check recov. Hole making water.			
<u>B</u>	<u>Cement/Bent. Grout surface-8'</u>	<u>8'</u>					
<u>S</u>	<u>Heavy Bent. mud. 8-10'</u>	<u>10</u>		COMMENTS:			
<u>F</u>	<u>Silica sand 10-23'</u>	<u>23</u>					
• B - Backfill S - Seal F - Filter Pack							
• Depth from Ground Surface							

WELL 797 LOGS

PROJECT AMBROSIA LAKE SITE, NEW MEXICO

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LOG OF WELL BORING NO. 797JOB NO. AMB01 DATE 09/25/85TOTAL DEPTH 21.5 feetSURFACE ELEVATION 6969.70

RIG TYPE

TOP OF FILTER PACK

BORING TYPE ROTARYWELL CASING TYPE 4.0-IN.SCHED.80 PVCLOCATION N 53366.20 E 61327.70COMPLETION ALLUVIUM;(dry)DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
0		Installed 4-in. PVC well to 21.5 feet.		CL	ALLUVIUM: SANDY CLAY, fine, calcareous, soft, tan. Note: Some yellow to orange sandstone frag. gravels and minor hematite frags. from 10 to 15 feet as basal unit of alluvium.
5		Placed steel protective casing to 3 feet.			
		Installed grout to 8.0 feet.			
		Installed bentonite mud seal from 8.0 to 10 ft.			
10		Placed 8-12 filter pack from 10 to 21.5 feet			
15					
20		Placed .051 slot well screen from 14.5 to 19.5 ft. with 2 ft. sump below.			
					TD AT 21.5 FEET.
25					
30					
35					
40					
45					
50					

GROUNDWATER

DEPTH	HOUR	DATE

JEG TAC TEAM

JACOBS ENGINEERING GROUP INC.
ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS

WELL COMPLETION RECORD

SITE ID: AMB01 LOCATION ID: 797 DATE INSTALLED: 7/25/85
APPROX. SITE COORDINATES: (FT.) N NK E NK
OPEN AREA PER LINEAL FT. (IN²/FT.) 8" bore hole with 4.5" ID / 4.0" ID PVC casing
FORMATION OF COMPLETION: Alluvium
FIELD-REP.: Roger Holland DRILLER: Stewart Brothers

COMMENTS:

BOREHOLE SUMMARY				CONSTRUCTION TIME LOG				
DRILLER: <u>Stewart Brothers</u>				ACTIVITY	START		END TIME	
RIG TYPE: <u>Gardner Denver 15W (Rotary)</u>					DATE	TIME		
BIT TYPE	HOLE DIA. (in.)	END DEPTH (ft.)	FLUID TYPE	DRILLING	9/25/85	1:50 pm	1:57 pm	
Hughes mull Teeth	8.0"		Bentonite mud					
Casing Summary				CASING	9/25/85	2:15 pm	2:34 pm	
Casing Type*	Description		DIA. (in.)	END DEPTH (ft.)	FILTER PACK	9/25/85	2:34 pm	2:42 pm
B	PVC SCHED 80		4.0 ³⁰	16.5'	SEAL ^{Heavy} _{Bent. mud}	9/25/85	2:43 pm	2:45 pm
S	PVC 0.051" slotted		4.0"	21.5'				
B	PVC SCHED 80		4.0"	23.5'	BACKFILL	9/25/85	2:51 pm	2:54 pm
P	Steel Casing		8.0"	5.0	DEVELOPMENT	9/27/85	7:55 Am	11:00 Am
					OTHER			

* P-Protective G-Screen B-Blank O-Open N-None

* Depth from Top of Casing

WELL CONSTRUCTION			WELL DEVELOPMENT
TYPE CODE*	DESCRIPTION	END DEPTH (ft.)	
B	Cement/Bent. Grout 0-8'	8'	Began developing @ 7:55 AM Blow hole, inject and flush to clean.
S	Heavy Bent. mud 8-10'	10.0'	Blow dry and let set 10 min
F	Silica sand 10-21.5'	21.5'	Blow - very little water removed Flush and clean
	-		let set 10:10 AM - 10:35 AM
			Blow 10:35 AM - 11:00 AM

* B - Backfill S - Seal F - Filter Pack

● Depth from Ground Surface

COMMENTS: Hole appears Dry

WELL 798 LOGS

PROJECT AMBROSIA LAKE SITE, NEW MEXICO

Page 1 of 1

LOG OF WELL BORING NO. 798

JOB NO. AMB01 DATE 09/25/85TOTAL DEPTH 20.0 feetSURFACE ELEVATION 6978.20

RIG TYPE

TOP OF FILTER PACK

BORING TYPE ROTARYWELL CASING TYPE 4.0-IN. SCHED. 80 PVCLOCATION N 53471.00 E 62021.20COMPLETION ALLUVIUM (dry)DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
0		Installed 4-in. PVC well to 20 feet.		SC	ALLUVIUM:
		Placed steel protective casing to 3 feet.			CLAYEY SAND, fine, calcareous, soft, tan.
5		Installed grout to 8.0 feet.			
		Installed bentonite mud seal from 8.0 to 10 ft.			
10		Placed 8-12 filter pack from 10 to 20 feet		CL	SANDY CLAY, fine sand, calcareous, soft, tan.
15		Placed .051 slot well screen from 13 to 18 ft. with 2 ft. sump below.			Note: clasts of yellow to orange sandstone fragments included from 15 feet.
20					TD AT 20 FEET.
25					
30					
35					
40					
45					
50					

GROUNDWATER

DEPTH	HOUR	DATE
▽		
▽		

JEG TAC TEAM

WELL COMPLETION RECORD

SITE ID: AMB01 LOCATION ID: 798 DATE INSTALLED: 9/25/85
APPROX. SITE COORDINATES: (FT.) N NK E NK
OPEN AREA PER LINEAL FT. (IN²/FT.) 8" bore hole with 4.5" o.d./4.0" i.d. PVC casing
FORMATION OF COMPLETION: Alluvium
FIELD-REP.: Roger Holland DRILLER: Stewart Brothers

COMMENTS: _____

JE JACOBS ENGINEERING GROUP INC.
 ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS
BOREHOLE/WELL CONSTRUCTION LOG

SITE ID: AMB01 LOCATION ID: 798 FIELD REP: Roger F. Holland
 APPROX. SITE COORDINATES (FT.): N NK E NK
 GROUND ELEVATION (FT. MSL): NK COMPLETION DATE: 9/25/85

BOREHOLE SUMMARY				CONSTRUCTION TIME LOG			
DRILLER: <u>Stewart Brothers</u>				ACTIVITY	START		END TIME
RIG TYPE: <u>Gardner Denver 15W (Rotary)</u>					DATE	TIME	
BIT TYPE	HOLE DIA. (in.)	END DEPTH (ft.)	FLUID TYPE	DRILLING	9/25/85	4:07 pm	4:15 pm
<u>Hughes multi-bit</u>	<u>8.0"</u>		<u>Bentonite mud</u>				
				CASING	9/25/85	4:33 pm	4:44 pm
CASING SUMMARY				FILTER PACK	9/25/85	5:08 pm	5:16 pm
CASING TYPE*	DESCRIPTION	DIA. (in.)	END DEPTH (ft.)	SEAL	9/25/85	5:18 pm	5:19 pm
<u>B</u>	<u>PVC SCHED 80</u>	<u>4.0"</u>	<u>15'</u>				
<u>S</u>	<u>PVC 0.051" slotted</u>	<u>4.0"</u>	<u>20'</u>	BACKFILL	9/25/85	5:25 pm	5:33 pm
<u>B</u>	<u>PVC SCHED 80</u>	<u>4.0"</u>	<u>22'</u>				
<u>P</u>	<u>Steel Casing</u>	<u>8.0"</u>	<u>5.0'</u>	DEVELOPMENT	9/27/85	7:40 am	11:00 am
				OTHER			
* P-Protective S-Screen B-Blank O-Open N-None							
† Depth from Top of Casing							
WELL CONSTRUCTION				WELL DEVELOPMENT			
TYPE CODE*	DESCRIPTION	END DEPTH (ft.)		Hole blown, Flushed and Surged to clean. Hole blown dry, let set, and blown to check recovery. Hole appears to be making water. Hole cleaned up fairly well			
<u>B</u>	<u>Cement/Bent. Grout surface-8'</u>	<u>8'</u>					
<u>S</u>	<u>Heavy Bent. Mud 8-10'</u>	<u>10'</u>					
<u>F</u>	<u>Silica Sand 10-20'</u>	<u>20'</u>					
COMMENTS:							
● B - Backfill S - Seal F - Filter Pack ● Depth from Ground Surface							

WELL 799 LOGS

PROJECT AMBROSIA LAKE SITE, NEW MEXICO

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LOG OF WELL BORING NO. 799JOB NO. AMB01 DATE 09/26/85TOTAL DEPTH 12.0 feetSURFACE ELEVATION 6980.70

RIG TYPE

TOP OF FILTER PACK

BORING TYPE ROTARYWELL CASING TYPE 4.0-IN. SCHED. 80 PVCLOCATION N 54621.70 E 61167.60COMPLETION ALLUVIUM; (dry)DATUM MSL, GROUND SURFACE

Depth	Well Con.	Remarks	Lithology	USCS	Visual Classification
0		Installed 4-in. PVC well to 12 feet.		CL	ALLUVIUM: SANDY CLAY, highly calcareous, soft, tan to lt. yellow.
5		Placed steel protective casing to 3 feet.			
		Installed grout to 1.5 feet.		CH	MANCOS SHALE FM.: CLAYSTONE-SHALE, highly calcareous, fissile, with some sand, lt. grey.
10		Installed bentonite mud seal from 1.5 to 3.0 ft.			Note: Becoming lt. yellow with frag. of dk. grey, from 10 feet, gypsum frag. common.
		Placed 8-12 filter pack from 3 to 12 feet			TD AT 12 FEET.
		Placed .051 slot well screen from 5 to 10 ft. with 2 ft. sump below.			
15		Very low yield.			
20					
25					
30					
35					
40					
45					
50					

GROUNDWATER

DEPTH	HOUR	DATE

JEG TAC TEAM

WELL COMPLETION RECORD

SITE ID: AMB01 LOCATION ID: 799 DATE INSTALLED: 9/26/85

APPROX. SITE COORDINATES: (FT.) N NX E NX

OPEN AREA PER LINEAL FT. (IN²/FT.) 8" bore hole with 4.5" ID / 4.0" ID PVC CASING

FORMATION OF COMPLETION: Alluvium

FIELD REP.: Roger Holland DRILLER: Stewart Brothers

COMMENTS: _____

JE JACOBS ENGINEERING GROUP INC.
 ADVANCED SYSTEMS DIVISION, ALBUQUERQUE OPERATIONS
BOREHOLE/WELL CONSTRUCTION LOG

SITE ID: Ambol LOCATION ID: 799 FIELD REP: Roger Holland
 APPROX. SITE COORDINATES (FT.): N NK E NK
 GROUND ELEVATION (FT. MSL): NK COMPLETION DATE: 9/26/85

BOREHOLE SUMMARY				CONSTRUCTION TIME LOG			
DRILLER: <u>Stewart Brothers</u>				ACTIVITY	START		END TIME
RIG TYPE: <u>Gardner Denver 15W (Rotary)</u>					DATE	TIME	
BIT TYPE	HOLE DIA. (in.)	END DEPTH (ft.)	FLUID TYPE	DRILLING	9/26/85	7:53 AM	7:55 AM
<u>Huge Mill Teeth</u>	<u>8.0"</u>	<u>12'</u>	<u>Bentonite mud</u>				
				CASING	9/26/85	7:57 AM	8:06 AM
				FILTER PACK	9/26/85	8:13 AM	8:19 AM
				SEAL	9/26/85	8:26 AM	8:27 AM
				BACKFILL	9/26/85	8:41 AM	8:42 AM
				DEVELOPMENT	9/27/85	11:30 AM	12:15 PM
					9/28/85	12:15 PM	1:25 PM
				OTHER			
* P-Protective G-Screen B-Blank O-Open N-None † Depth from Top of Casing							
WELL CONSTRUCTION				WELL DEVELOPMENT			
TYPE CODE*	DESCRIPTION		END DEPTH (ft.)	Hole was blown, surged and flushed to clean. Hole blown dry, let set and blown. Appears to be making very small amt. of water.			
B	Cement/Bent. Grout surf-15'		1.5				
S	Heavy Bent. mud 1.5-3'		3				
F	Silica sand 3-12'		12				
				COMMENTS:			
* B - Backfill S - Seal F - Filter Pack † Depth from Ground Surface							

APPENDIX B

**HYDROGEOLOGIC INFORMATION
AMBROSIA LAKE, NEW MEXICO, UMTRA PROJECT SITE**

CALCULATION COVER SHEET

CALC NO. AMB-03-88-15-01-⁰¹ DISCIPLINE HYDROLOGY NO. OF SHEETS

PROJECT:

UMTRA

SITE:

AMBROSIA LAKE, NEW MEXICO

FEATURE:

CALCULATION OF TRANSMISSIVITY & STORATIVITY
WITHIN ALLUVIUM/WEATHERED MANCOS SHALE
USING JACOB STRAIGHT-LINE METHOD.

SOURCES OF DATA:

AQUIFER PUMPING TEST DATA COLLECTED
BY TAC - FEB. 2 & 3, 1989

SOURCES OF FORMULAE & REFERENCES:

GROUNDWATER AND WELLS, 1986, JOHNSON, pp. 219-
257.

PRELIMINARY CALC. ☐ FINAL CALC. ☐ SUPERSEDES CALC. NO.

REV. NO.	REVISION	CALCULATION BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE

A. PURPOSE OF CALCULATION

To calculate the transmissivity and storativity in the alluvium/weatherted Mancos Shale at the Ambrosia Lake (AMB-01) UMTRA Project Site.

B. METHOD AND PROCEDURES

An aquifer pumping test was performed on Well 675 with wells OBS-1 and OBS-2 used as observation wells. The pumping test occurred in two phases: 1) drawdown and 2) recovery. The drawdown phase consisted of a 12-hour test where Well 675 was pumped at a constant rate of 0.35 gpm before the water level fell below the intake of the pump ending the drawdown phase of the test. The recovery phase began immediately after. Water level measurements were recorded electronically and manually throughout both phases of the test from the pumping and observation wells. The discharge was routed to a nearby drainage ditch where it could not recharge the alluvial aquifer. Discharge rate was monitored manually throughout the duration of the drawdown phase.

The Jacob straight-line technique (Johnson, 1986) was used to analyse the drawdown and recovery data to obtain values for transmissivity and storativity. Time-drawdown graphs (Figures 1 through 3) were generated from the drawdown data collected from pumping and observation wells. Residual-drawdown and time-recovery curves were generated from the recovery data collected from observation well OBS-1. The graphs were analysed according to methods described in "Groundwater and Wells," (Johnson, 1986).

C. ASSUMPTIONS

- 1) The aquifer is homogenous and isotropic.
- 2) The formation has uniform thickness.
- 3) The formation receives no recharge from any source.
- 4) The pumped well penetrates and receives water from the full thickness of the water-bearing formation.
- 5) The aquifer is infinite in areal extent.
- 6) The water removed from storage is discharged instantaneously with lowering of the head.

D. MATERIAL PROPERTIES

Attachment A contains the well log and well construction summary for Well 675. Observation points OBS-1 and OBS-2 are located within 30 feet of Well 675 and penetrated similar lithologic conditions.

E. DATA SOURCES

The pumping test was performed and data collected by the TAC on February 2 and 3, 1989. The pumping test data and graphs are contained in Attachment B.

F. CALCULATION AND ANALYSIS

The drawdown and recovery graphs and the calculations are shown in Figures 1 through 5. Transmissivity and storativity were calculated using the following equations:

Transmissivity

$$T = 264 Q / s$$

where

T = transmissivity, in gpd/ft

Q = pumping rate, in gpm. The pumping rate was 0.35 gpm

s = slope of the time drawdown graph expressed as the change in drawdown between any two times on the log scale whose ratio is 10 (one log cycle). The time drawdown graphs for the pumping and observation wells, show that effects of casing storage were not exceeded until 200 minutes into the drawdown phase of the test as indicated by the two distinct slopes shown in Figures 1 and 2. The calculation for the time when casing storage effect becomes negligible is present in calculation number AMB-03-88-15-01-02.

Storativity

$$S = 0.3 T t_0 / r^2$$

where

S = storage coefficient

T = transmissivity, in gpd/ft

t₀ = intercept of the straight line at zero drawdown

r = distance, in ft, from the pumped well to the observation well where the drawdown measurements were made. The values of r for OBS-1 and OBS-2 are 9.9 and 29.5 ft, respectively.

G. CONCLUSIONS AND RECOMMENDATIONS

The results of the pumping test analysis are summarized in Table 1. Transmissivities and storage coefficient values ranged from 13 to 73 gpd/ft and from 0.001 to 0.004, respectively. The results for T and S obtained from well OBS-2 are higher than for the other two wells. The T value of 73 gpd/ft calculated from drawdown data from well OBS-1 as compared to an average T value of 15.5 gpd/ft from the other two wells suggests that the alluvial aquifer is anisotropic and that poor hydraulic connection exists between well OBS-2 and the pumping well. The T values calculated from the drawdown data for wells 675 and OBS-1 were based on the second slope of the straight-line plot since this is the true aquifer transmissivity if the aquifer is to be pumped for extended periods of time. The results from residual drawdown and the calculated time-recovery analysis for well OBS-1 agreed closely to the time drawdown analysis (Table 1).

DATE _____

SUBJECT _____

SHEET NO. _____

BY _____ CHKD. _____

JOB NO. _____

TABLE 1.
RESULTS OF PUMPING TEST ANALYSISTime-drawdown analysis

Well No.	Transmissivity (gpd/ft)	Storage Coefficient
675	13	Not applicable
OBS-1	18	0.001
OBS-2	73	0.004

Time-recovery analysis

Well No.	Transmissivity (gpd/ft)	Storage Coefficient
OBS-1	19	0.001

Residual-drawdown analysis

Well No.	Transmissivity (gpd/ft)	Storage Coefficient
OBS-1	22	Not applicable

ATTACHMENT A
WELL LOG AND CONSTRUCTION SUMMARY
WELL 675

BOREHOLE LOG (SOIL)

Page 1 of 2

LOCATION MAP:

SITE ID: AMB-16 LOCATION ID: MW-675
SITE COORDINATES (ft.):
N _____ E _____
GROUND ELEVATION (ft. MSL): 3 6765.0
DRILLING METHOD: HSA 10"
DRILLING CONTR.: CHEN NORTHERN
DATE STARTED: 12 DEC 88
DATE COMPLETED: _____
FIELD REP.: D.R. METZLER

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft.)

LOCATION DESCRIPTION BETWEEN THE E-W BEARINGS ROAD, 25' N. OF CONTROL FENCE
SITE CONDITION MIDWAY DOWN THE PILE ON SOUTH SIDE, FLAT, NEED COVERED

FEET DEPTH	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	TYPE	ID	BLOWS PER 6 IN.	W VALUE	USCS	VISUAL CLASSIFICATION
0								SM	<u>Topsoil</u> poorly developed, immature, void of massive-root structures, predominantly fine to v. fine sands with considerable silt. NP, v. loose, dry, Lt Brown
5					6 01			SM	<u>SILTY SAND</u> , predominantly fine sands w/ considerable silt, loose, dry, Brown
10								SC	<u>CLAYEY SAND</u> , predominantly fine sands, with a considerable silt/clay fraction. low Pi moist, Lt. Brown.
15								CL	<u>BECOMING MORE CLAYEY</u> (<u>SANDY CLAY</u> , some fine grain sands med Pi, moist, Lt Brown.
20								CL	<u>SILTY CLAY</u> , homogeneous, non stratified clays of med to high plasticity, Med. stiff, moist, olive Brown.
25								CH/SC	<u>CONTACT: BEDROCK / CLAYSTONE / SHALE</u> CLAYS, v. stiff, homogeneous, moist, of high plasticity, olive (UPPER MANCOS)
30									

COMMENTS:

SAMPLE TYPE

A - Auger cuttings
S - 3" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. thermal-weld Shelby tube

Page 2 of 2

N _____ **E** _____

GROUND ELEVATION (ft. MSL): _____

DRILLING METHOD: _____

DRILLING CONTR.: _____

DATE STARTED: _____

DATE COMPLETED: _____

FIELD REP.: DR. HETZLER

DATE	TIME	DEPTH (ft.)
12 DEC 88	4 ⁰⁰ PM	29'
	and rising	

LOCATION DESCRIPTION
SITE CONDITION _____

[illegible]**COMMENTS:**

SAMPLE TYPE

SAMPLE TYPE
A - Auger cuttings
S - 2" O.D. 1.38" I.D. drive sample
U - 3" O.D. 2.42" I.D. tube sample
T - 3" O.D. thermal-walled Shelby tube

WELL COMPLETION RECORD

SITE ID: ANB-16 **LOCATION ID:** YW-675 **DATE INSTALLED:** 12 DEC 88

APPROX. SITE COORDINATES: (FT.) N NA E NA

OPEN AREA PER LINEAL FT. (IN²/FT.) 10² - 4.5²

FORMATION OF COMPLETION: TOP OF THE MANCOS / Base of Alluvium

FIELD REP.: D. B. METZGER DRILLER: CHEN NORTHERN

COMMENTS: WATER AT 29.0 if possibly rising AT
END of Drilling.

SITE ID: AMB-16 LOCATION ID: MW-675 FIELD REP: DR. HATZELER
APPROX. SITE COORDINATES (FT.): N NA E NA
GROUND ELEVATION (FT. MSL): 2 6965.0 COMPLETION DATE: 12 DEC 88

BOREHOLE SUMMARY				CONSTRUCTION TIME LOG			
DRILLER: <u>CHEN NORTHERN</u>				ACTIVITY	START		END TIME
RIG TYPE: <u>MOBILE 80 B</u>					DATE	TIME	
BIT TYPE	HOLE DIA. (in.)	END DEPTH (ft.)	FLUID TYPE	DRILLING	12-12-88	1130	350 pm
HSA	10.0	35	NONE.				
			A few				
			BUCKET 6				
			CHAM NUT				
CASING SUMMARY				CASING	12-12	355 pm	405 pm
CASING TYPE*	DESCRIPTION	DIA. (in.)	END DEPTH (ft.)	FILTER PACK	12-12	405 pm	420
B	SCH 40 PVC SUNP + CAP	4.0	35.0	SEAL	12-12	420	425
S	" " " SCREEN	"	32.5	BACKFILL	12-12	500	530
B	" " " BLANKS	"	22.5				
P	PROTECTIVE STEEL COBINS	8 5/8	6.0	DEVELOPMENT			
				OTHER			
* P-Protective S-Screen B-Blank O-Open N-None † Depth from Top of Casing							
WELL CONSTRUCTION				WELL DEVELOPMENT			
TYPE CODE*	DESCRIPTION	END DEPTH (ft.)	WATER LEVEL 16 DEC 88, is 22.5 from T. of C. & 19.5 from ground surface.				
F	8-12 SILICA SAND	35.0					
S ₁	Bentonite Pellets	15.7					
S ₂	Bentonite chip 3/4"	13.5					
B	bentonite-grout-compact	10.0					
			COMMENTS: 9 bags of 8-12 silica				
			2 bucket of bentonite Pellets				
			3 bags of hole plug 3/4"				
			hydrated bentonite Pellets w/ 5 gal				
* B - Backfill S - Seal F - Filter Pack † Depth from Ground Surface

ATTACHMENT B
PUMP TEST DATA AND FIGURES

Ambrosia Lake Aquifer Pumping Test (drawdown)
 Well OBS-2 ($r = 29.5$ ft)
 Pumping Well: 675 ($Q = 0.35$ gpm)
 2/2/89

$$T = 264 \text{ @ } \Delta S$$

$$\Delta S = 1.27 \text{ ft}$$

$$T = 264 (0.35) / 1.27$$

$$= 73 \text{ gpd/ft}$$

$$S = 0.3 T t_o / r^2$$

$$t_o = 225 \text{ min} = 0.16 \text{ days}$$

$$S = 0.3 (73) (0.16) / (29.5)^2$$

$$= .004$$

Ambrosia Lake Aquifer Pumping Test
 Well OBS-1 ($r_r = 9.9 \text{ ft}$)
 Pumping Well: 675 ($Q = 0.35 \text{ gpm}$)
 2/2/89

Ambrosia Lake Aquifer Pumping Test
 Well OBS-1 ($r = 9.9$ ft)
 Pumping Well: 675 ($Q = 0.35$ gpm)
 2/2/89

$$T = 264 \text{ } Q / \Delta s$$

$$\Delta s_1 = 1.72 \text{ ft}$$

$$\Delta s_2 = 5.25 \text{ ft}$$

$$T_1 = 264 (0.35) / 1.72$$

$$= 54 \text{ gpd / ft}$$

$$T_2 = 264 (0.35) / 5.25$$

$$= 18 \text{ gpd / ft}$$

$$S = 0.3 T t_0 / r^2$$

$$t_{o1} = 4.5 = .003 \text{ days}$$

$$t_{o2} = 28 = .020 \text{ days}$$

$$S_1 = 0.3 (54) (.003) / (9.9)^2$$

$$= 0.0005$$

$$S_2 = 0.3 (18) (.020) / (9.9)^2$$

$$= 0.001$$

$$y = 2.28 (\ln(x)) - 7.60$$

$$y = 0.748 (\ln(x)) - 1.13$$

WELL - OBS-1

Time - Recovery Curve Well OBS-1

$$T = 264 Q / \Delta s$$

$$Q = 0.35 \text{ gpm}$$

$$\Delta s = 4.94 \text{ ft}$$

$$T = 264 (0.35) / 4.94$$

$$= 19 \text{ gpd / ft}$$

$$S = 0.3 T t_o / r^2$$

$$t_o = 29 \text{ min} = 0.02 \text{ days}$$

$$r = 9.9 \text{ ft}$$

$$S = 0.3 (19) (0.02) / (9.9)^2$$

$$= 0.001$$

Ambrosia Lake Aquifer Pumping Test (drawdown)
Well 675 ($r = 0.17$ ft)
Pumping Well: 675 ($Q = 0.35$ gpm)
2/2/89

APPENDIX C

GROUND WATER QUALITY DATA BY LOCATION AMBROSIA LAKE, NEW MEXICO, UMTRA PROJECT SITE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0568
 NORTH COORDINATE: 51550.0 FT
 EAST COORDINATE: 50990.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - B SANDSTONE (TB)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	08/16/83	0001	MG/L CaCO_3		90.20		-	-
ALUMINUM	10/21/80 08/16/83	0001 0001	MG/L		0.89 0.24		- -	- -
ARSENIC	10/21/80 08/16/83	0001 0001	MG/L		0.012 0.18		- -	- -
BARIUM	10/21/80 08/16/83	0001 0001	MG/L		0.01 0.014		- -	- -
BICARBONATE - HCO_3	10/21/80 08/16/83	0001 0001	MG/L		152.00 220.00		- -	- -
BORON	10/21/80 08/16/83	0001 0001	MG/L		0.44 0.45		- -	- -
CADMIUM	10/21/80 08/16/83	0001 0001	MG/L	<	0.008 0.01		0.008 -	- -
CALCIUM	10/21/80 08/16/83	0001 0001	MG/L		200.00 210.00		- -	- -
CARBONATE	08/16/83	0001	MG/L	<	10.00		10.	-
CHLORIDE	10/21/80 08/16/83	0001 0001	MG/L	<	10.00 18.00		10. -	- -
CHROMIUM	10/21/80 08/16/83	0001 0001	MG/L	<	0.001 0.036		0.001 -	- -
COBALT	10/21/80 08/16/83	0001 0001	MG/L	<	0.006 0.029		0.006 -	- -
COPPER	10/21/80 08/16/83	0001 0001	MG/L		0.009 0.052		- -	- -
CYANIDE	08/16/83	0001	MG/L	<	0.01		0.01	-
FLUORIDE	10/21/80 08/16/83	0001 0001	MG/L	<	0.26 1.00		- 1.	- -
IRON	10/21/80 08/16/83	0001 0001	MG/L		0.18 0.14		- -	- -
LEAD	10/21/80 08/16/83	0001 0001	MG/L	<	0.001 0.19		0.001 -	- -
MAGNESIUM	10/21/80 08/16/83	0001 0001	MG/L		92.00 83.00		- -	- -
MANGANESE	10/21/80 08/16/83	0001 0001	MG/L		0.021 0.11		- -	- -
MERCURY	10/21/80	0001	MG/L	<	0.001		0.001	-
MOLYBDENUM	10/21/80 08/16/83	0001 0001	MG/L		0.035 0.019		- -	- -

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0568
 NORTH COORDINATE: 51550.0 FT
 EAST COORDINATE: 50990.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - B SANDSTONE (TB)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
NICKEL	10/21/80 08/16/83	0001 0001	MG/L		0.038 0.077		- -	- -
NITRATE	10/21/80 08/16/83	0001 0001	MG/L	<	1.30 1.00		- 1.	- -
PH	10/21/80 08/16/83	0001 0001	SU		7.80 7.30		- -	- -
POTASSIUM	10/21/80 08/16/83	0001 0001	MG/L		6.40 9.00		- -	- -
RADIUM-226	10/21/80 08/16/83	0001 0001	PCI/L		2.45 1.10		- -	- -
RADIUM-226 + RADIUM-228	08/16/83	0001	PCI/L		2.20		-	-
RADIUM-228	08/16/83	0001	PCI/L		1.10		-	-
SELENIUM	10/21/80 08/16/83	0001 0001	MG/L		0.009 0.21		- -	- -
SILVER	10/21/80 08/16/83	0001 0001	MG/L	<	0.002 0.065		0.002 -	- -
SODIUM	10/21/80 08/16/83	0001 0001	MG/L		100.00 110.00		- -	- -
SPECIFIC CONDUCTANCE	10/21/80	0001	UMHO/CM		1860.00		-	-
SULFATE	10/21/80 08/16/83	0001 0001	MG/L		990.00 960.00		- -	- -
TOTAL DISSOLVED SOLIDS	10/21/80 08/16/83	0001 0001	MG/L		1590.00 1480.00		- -	- -
TOTAL SUSPENDED SOLIDS	10/21/80	0001	MG/L		124.00		-	-
URANIUM	10/21/80 08/16/83	0001 0001	MG/L		0.027 0.016		- -	- -
VANADIUM	10/21/80 08/16/83	0001 0001	MG/L	<	0.003 0.046		0.003 -	- -
ZINC	10/21/80 08/16/83	0001 0001	MG/L		0.17 0.045		- -	- -

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0569
 NORTH COORDINATE: 49990.0 FT
 EAST COORDINATE: 51010.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS-A SANDSTONE (TR)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	11/14/83	0001	MG/L CAC03		49.20		-	-
	10/15/85	0001			43.		-	-
ALUMINUM	11/04/80	0001	MG/L		0.72		-	-
	11/14/83	0001		<	0.008		0.008	-
ARSENIC	11/04/80	0001	MG/L		0.02		-	-
	11/14/83	0001			0.032		-	-
	10/15/85	0001		<	0.01		0.01	-
BARIUM	11/04/80	0001	MG/L		0.009		-	-
	11/14/83	0001		<	0.013		0.013	-
BICARBONATE - HCO3	11/04/80	0001	MG/L		232.00		-	-
	11/14/83	0001			120.00		-	-
BORON	11/04/80	0001	MG/L		0.27		-	-
	11/14/83	0001			0.26		-	-
CADMIUM	11/04/80	0001	MG/L	<	0.008		0.008	-
	11/14/83	0001		<	0.007		0.007	-
CALCIUM	11/04/80	0001	MG/L		98.00		-	-
	11/14/83	0001			65.00		-	-
	10/15/85	0001			161.		0.01	-
CARBONATE	11/14/83	0001	MG/L	<	10.00		10.	-
CHLORIDE	11/04/80	0001	MG/L		24.00		-	-
	11/14/83	0001			25.00		-	-
	10/15/85	0001			35.		1.	-
CHROMIUM	11/04/80	0001	MG/L	<	0.001		0.001	-
	11/14/83	0001		<	0.026		0.026	-
COBALT	11/04/80	0001	MG/L	<	0.006		0.006	-
	11/14/83	0001		<	0.011		0.011	-
COPPER	11/04/80	0001	MG/L	<	0.001		0.001	-
	11/14/83	0001		<	0.017		0.017	-
CYANIDE	11/14/83	0001	MG/L	<	1.00		1.	-
FLUORIDE	11/04/80	0001	MG/L	<	0.20		0.2	-
	11/14/83	0001		<	1.00		1.	-
IRON	11/04/80	0001	MG/L		0.30		-	-
	11/14/83	0001			0.14		-	-
LEAD	11/04/80	0001	MG/L	<	0.001		0.001	-
	11/14/83	0001			0.03		-	-
MAGNESIUM	11/04/80	0001	MG/L		92.00		-	-
	11/14/83	0001			84.00		-	-
	10/15/85	0001			167.		0.001	-
MANGANESE	11/04/80	0001	MG/L		0.44		-	-
	11/14/83	0001			0.41		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0569
 NORTH COORDINATE: 49990.0 FT
 EAST COORDINATE: 51010.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS-A SANDSTONE (TR)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
MERCURY	11/04/80	0001	MG/L	<	0.001		0.001	-
MOLYBDENUM	11/04/80	0001	MG/L	<	0.028		-	-
	11/14/83	0001			0.018		0.018	-
	10/15/85	0001			0.19		0.01	-
NICKEL	11/04/80	0001	MG/L	<	0.003		0.003	-
	11/14/83	0001		<	0.038		0.038	-
NITRATE	11/04/80	0001	MG/L	<	1.10		-	-
	11/14/83	0001			1.00		1.	-
PH	11/04/80	0001	SU		7.90		-	-
	11/14/83	0001			7.50		-	-
	10/15/85	0001			8.82		-	-
POTASSIUM	11/04/80	0001	MG/L		8.00		-	-
	11/14/83	0001			7.00		-	-
	10/15/85	0001			10.		0.01	-
RADIUM-226	11/04/80	0001	PCI/L		1.95		-	-
	11/14/83	0001			0.66		-	-
RADIUM-226 + RADIUM-228	11/14/83	0001	PCI/L		1.32		-	-
RADIUM-228	11/14/83	0001	PCI/L		0.66		-	-
SELENIUM	11/04/80	0001	MG/L	<	0.025		-	-
	11/14/83	0001			0.015		-	-
	10/15/85	0001			0.005		0.005	-
SILVER	11/04/80	0001	MG/L	<	0.002		0.002	-
	11/14/83	0001		<	0.02		0.02	-
SODIUM	11/04/80	0001	MG/L		310.00		-	-
	11/14/83	0001			320.00		-	-
	10/15/85	0001			134.		0.002	-
SPECIFIC CONDUCTANCE	11/04/80	0001	UMHO/CM		2320.00		-	-
	10/15/85	0001			2000.		-	-
SULFATE	11/04/80	0001	MG/L		1080.00		-	-
	11/14/83	0001			1120.00		-	-
	10/15/85	0001			1120.		0.1	-
TEMPERATURE	10/15/85	0001	C - DEGREE		13.		-	-
TOTAL DISSOLVED SOLIDS	11/04/80	0001	MG/L		1705.00		-	-
	11/14/83	0001			1640.00		-	-
	10/15/85	0001			2300.		10.	-
TOTAL SUSPENDED SOLIDS	11/04/80	0001	MG/L		89.00		-	-
URANIUM	11/04/80	0001	MG/L		0.06		-	-
	11/14/83	0001			0.003		-	-
	10/15/85	0001			0.0058		0.003	-
VANADIUM	11/04/80	0001	MG/L	<	0.003		0.003	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0569
 NORTH COORDINATE: 49990.0 FT
 EAST COORDINATE: 51010.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS-A SANDSTONE (TR)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
VANADIUM	11/14/83	0001	MG/L		0.007		-	-
ZINC	11/04/80	0001	MG/L		0.079		-	-
	11/14/83	0001			0.022		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0570
 NORTH COORDINATE: 51730.0 FT
 EAST COORDINATE: 47650.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - B SANDSTONE (TB)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	05/24/83	0001	MG/L CaCO3		86.10		-	-
ALUMINUM	10/02/80	0001	MG/L		0.088		-	-
	05/24/83	0001			0.22		-	-
ARSENIC	10/02/80	0001	MG/L		0.004		-	-
	05/24/83	0001			0.21		-	-
BARIUM	10/02/80	0001	MG/L		0.018		-	-
	05/24/83	0001		<	0.02		0.02	-
BICARBONATE - HCO3	10/02/80	0001	MG/L		397.00		-	-
	05/24/83	0001			210.00		-	-
BORON	10/02/80	0001	MG/L		0.38		-	-
	05/24/83	0001			0.25		-	-
CADMIUM	10/02/80	0001	MG/L	<	0.008		0.008	-
	05/24/83	0001			0.017		-	-
CALCIUM	10/02/80	0001	MG/L		420.00		-	-
	05/24/83	0001			430.00		-	-
CARBONATE	05/24/83	0001	MG/L	<	10.00		10.	-
CHLORIDE	10/02/80	0001	MG/L		2398.00		-	-
	05/24/83	0001			1840.00		-	-
CHROMIUM	10/02/80	0001	MG/L		0.061		-	-
	05/24/83	0001			0.01		-	-
COBALT	10/02/80	0001	MG/L	<	0.006		0.006	-
	05/24/83	0001		<	0.04		0.04	-
COPPER	10/02/80	0001	MG/L		0.001		-	-
	05/24/83	0001		<	0.03		0.03	-
CYANIDE	05/24/83	0001	MG/L	<	1.00		1.	-
FLUORIDE	10/02/80	0001	MG/L		0.10		-	-
	05/24/83	0001		<	1.00		1.	-
IRON	10/02/80	0001	MG/L		0.11		-	-
	05/24/83	0001			28.00		-	-
LEAD	10/02/80	0001	MG/L		0.002		-	-
	05/24/83	0001			0.27		-	-
MAGNESIUM	10/02/80	0001	MG/L		1400.00		-	-
	05/24/83	0001			1900.00		-	-
MANGANESE	10/02/80	0001	MG/L		2.00		-	-
	05/24/83	0001			1.70		-	-
MERCURY	10/02/80	0001	MG/L	<	0.001		0.001	-
MOLYBDENUM	10/02/80	0001	MG/L		0.002		-	-
	05/24/83	0001			0.031		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0570
 NORTH COORDINATE: 51730.0 FT
 EAST COORDINATE: 47650.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - B SANDSTONE (TB)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
NICKEL	10/02/80	0001	MG/L		0.01		-	-
	05/24/83	0001			0.075		-	-
NITRATE	10/02/80	0001	MG/L		24.00		-	-
	05/24/83	0001			6.00		-	-
PH	10/02/80	0001	SU		7.00		-	-
	05/24/83	0001			6.20		-	-
POTASSIUM	10/02/80	0001	MG/L		15.00		-	-
	05/24/83	0001			11.00		-	-
RADIUM-226	10/02/80	0001	PCI/L		1.41		-	-
	05/24/83	0001			1.77		-	-
RADIUM-226 + RADIUM-228	05/24/83	0001	PCI/L		3.54		-	-
RADIUM-228	05/24/83	0001	PCI/L		1.77		-	-
SELENIUM	10/02/80	0001	MG/L		0.68		-	-
	05/24/83	0001			0.24		-	-
SILVER	10/02/80	0001	MG/L	<	0.002		0.002	-
	05/24/83	0001			0.035		-	-
SODIUM	10/02/80	0001	MG/L		800.00		-	-
	05/24/83	0001			730.00		-	-
SPECIFIC CONDUCTANCE	10/02/80	0001	UMHO/CM		12400.00		-	-
SULFATE	10/02/80	0001	MG/L		4780.00		-	-
	05/24/83	0001			7630.00		-	-
TOTAL DISSOLVED SOLIDS	10/02/80	0001	MG/L		10710.00		-	-
	05/24/83	0001			12:70		-	-
TOTAL ORGANIC CARBON	05/24/83	0001	MG/L		18.00		-	-
TOTAL SUSPENDED SOLIDS	10/02/80	0001	MG/L		36.00		-	-
URANIUM	10/02/80	0001	MG/L		0.04		-	-
	05/24/83	0001			0.08		-	-
VANADIUM	10/02/80	0001	MG/L		0.028		-	-
	05/24/83	0001			0.04		-	-
ZINC	10/02/80	0001	MG/L		0.23		-	-
	05/24/83	0001			0.70		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0571
 NORTH COORDINATE: 57190.0 FT
 EAST COORDINATE: 47500.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS-A SANDSTONE (TR)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	08/15/83	0001	MG/L CaCO_3		28.70		-	-
ALUMINUM	11/05/80	0001	MG/L	<	0.05		0.05	-
	08/15/83	0001		<	0.04		0.04	-
ARSENIC	11/05/80	0001	MG/L		0.009		-	-
	08/15/83	0001		<	0.10		0.1	-
BARIUM	11/05/80	0001	MG/L		0.063		-	-
	08/15/83	0001			0.021		-	-
BICARBONATE - HCO_3	11/05/80	0001	MG/L		71.00		-	-
	08/15/83	0001			70.00		-	-
BORON	11/05/80	0001	MG/L		0.27		-	-
	08/15/83	0001			0.38		-	-
CADMIUM	11/05/80	0001	MG/L	<	0.008		0.008	-
	08/15/83	0001		<	0.007		0.007	-
CALCIUM	11/05/80	0001	MG/L		100.00		-	-
	08/15/83	0001			22.00		-	-
CARBONATE	08/15/83	0001	MG/L	<	10.00		10.	-
CHLORIDE	11/05/80	0001	MG/L		30.00		-	-
	08/15/83	0001			2.40		-	-
CHROMIUM	11/05/80	0001	MG/L		0.005		-	-
	08/15/83	0001		<	0.03		0.03	-
COBALT	11/05/80	0001	MG/L	<	0.006		0.006	-
	08/15/83	0001		<	0.01		0.01	-
COPPER	11/05/80	0001	MG/L		0.021		-	-
	08/15/83	0001		<	0.02		0.02	-
CYANIDE	08/15/83	0001	MG/L	<	0.10		0.1	-
FLUORIDE	11/05/80	0001	MG/L	<	0.20		0.2	-
	08/15/83	0001			0.30		-	-
IRON	11/05/80	0001	MG/L		0.19		-	-
	08/15/83	0001			0.028		-	-
LEAD	11/05/80	0001	MG/L	<	0.001		0.001	-
	08/15/83	0001		<	0.07		0.07	-
MAGNESIUM	11/05/80	0001	MG/L		37.00		-	-
	08/15/83	0001			3.70		-	-
MANGANESE	11/05/80	0001	MG/L		0.071		-	-
	08/15/83	0001			0.017		-	-
MERCURY	11/05/80	0001	MG/L	<	0.001		0.001	-
MOLYBDENUM	11/05/80	0001	MG/L		0.027		-	-
	08/15/83	0001		<	0.02		0.02	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0571
 NORTH COORDINATE: 57190.0 FT
 EAST COORDINATE: 47500.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS-A SANDSTONE (TR)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
NICKEL	11/05/80	0001	MG/L	<	0.003		0.003	-
	08/15/83	0001		<	0.04		0.04	-
NITRATE	11/05/80	0001	MG/L		1.80		-	-
	08/15/83	0001		<	1.00		1.	-
PH	11/05/80	0001	SU		7.80		-	-
	08/15/83	0001			8.20		-	-
POTASSIUM	11/05/80	0001	MG/L		20.00		-	-
	08/15/83	0001			8.90		-	-
RADIUM-226	11/05/80	0001	PCI/L		1.901		-	-
	08/15/83	0001			2.52		-	-
RADIUM-226 + RADIUM-228	08/15/83	0001	PCI/L		5.04		-	-
RADIUM-228	08/15/83	0001	PCI/L		2.52		-	-
SELENIUM	11/05/80	0001	MG/L		0.011		-	-
	08/15/83	0001		<	0.10		0.1	-
SILVER	11/05/80	0001	MG/L	<	0.002		0.002	-
	08/15/83	0001		<	0.02		0.02	-
SODIUM	11/05/80	0001	MG/L		170.00		-	-
	08/15/83	0001			3.30		-	-
SPECIFIC CONDUCTANCE	11/05/80	0001	UMHO/CM		1530.00		-	-
SULFATE	11/05/80	0001	MG/L		760.00		-	-
	08/15/83	0001			28.00		-	-
TOTAL DISSOLVED SOLIDS	11/05/80	0001	MG/L		1130.00		-	-
	08/15/83	0001			120.00		-	-
TOTAL ORGANIC CARBON	08/15/83	0001	MG/L		21.00		-	-
TOTAL SUSPENDED SOLIDS	11/05/80	0001	MG/L		48.00		-	-
URANIUM	11/05/80	0001	MG/L		0.10		-	-
	08/15/83	0001			0.005		-	-
VANADIUM	11/05/80	0001	MG/L	<	0.003		0.003	-
	08/15/83	0001		<	0.005		0.005	-
ZINC	11/05/80	0001	MG/L		0.14		-	-
	08/15/83	0001		<	0.008		0.008	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0572
 NORTH COORDINATE: 52200.0 FT
 EAST COORDINATE: 51100.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS-A SANDSTONE (TR)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	08/16/83	0001	MG/L CaCO_3		14.80		-	-
ALUMINUM	08/16/83	0001	MG/L		0.32		-	-
ARSENIC	08/16/83	0001	MG/L	<	0.10		0.1	-
BARIUM	08/16/83	0001	MG/L		0.017		-	-
BICARBONATE - HCO_3	08/16/83	0001	MG/L		36.00		-	-
BORON	08/16/83	0001	MG/L		0.28		-	-
CADMIUM	08/16/83	0001	MG/L		0.008		-	-
CALCIUM	08/16/83	0001	MG/L		230.00		-	-
CARBONATE	08/16/83	0001	MG/L	<	10.00		10.	-
CHLORIDE	08/16/83	0001	MG/L		510.00		-	-
CHROMIUM	08/16/83	0001	MG/L		0.047		-	-
COBALT	08/16/83	0001	MG/L		0.023		-	-
COPPER	08/16/83	0001	MG/L		0.051		-	-
CYANIDE	08/16/83	0001	MG/L	<	0.10		0.1	-
FLUORIDE	08/16/83	0001	MG/L	<	1.00		1.	-
IRON	08/16/83	0001	MG/L		0.26		-	-
LEAD	08/16/83	0001	MG/L		0.18		-	-
MAGNESIUM	08/16/83	0001	MG/L		230.00		-	-
MANGANESE	08/16/83	0001	MG/L		0.83		-	-
MOLYBDENUM	08/16/83	0001	MG/L		0.019		-	-
NICKEL	08/16/83	0001	MG/L		0.072		-	-
NITRATE	08/16/83	0001	MG/L	<	1.00		1.	-
PH	08/16/83	0001	SU		7.40		-	-
POTASSIUM	08/16/83	0001	MG/L		17.00		-	-
RADIUM-226	08/16/83	0001	PCI/L		10.65		-	-
RADIUM-226 + RADIUM-228	08/16/83	0001	PCI/L		21.30		-	-
RADIUM-228	08/16/83	0001	PCI/L		10.65		-	-
SELENIUM	08/16/83	0001	MG/L		0.17		-	-
SILVER	08/16/83	0001	MG/L		0.06		-	-
SODIUM	08/16/83	0001	MG/L		320.00		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0572
 NORTH COORDINATE: 52200.0 FT
 EAST COORDINATE: 51100.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS-A SANDSTONE (TR)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SULFATE	08/16/83	0001	MG/L		1650.00		-	-
TOTAL DISSOLVED SOLIDS	08/16/83	0001	MG/L		2940.00		-	-
TOTAL ORGANIC CARBON	08/16/83	0001	MG/L		12.00		-	-
URANIUM	08/16/83	0001	MG/L		0.016		-	-
VANADIUM	08/16/83	0001	MG/L		0.059		-	-
ZINC	08/16/83	0001	MG/L		0.10		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0583
 NORTH COORDINATE: 45780.0 FT
 EAST COORDINATE: 57270.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: DAKOTA SANDSTONE (KD)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	05/25/83	0001	MG/L CACO3		172.00		-	-
ALUMINUM	05/25/83	0001	MG/L	<	0.20		0.2	-
ARSENIC	05/25/83	0001	MG/L		0.11		-	-
BARIUM	05/25/83	0001	MG/L	<	0.02		0.02	-
BICARBONATE - HCO3	05/25/83	0001	MG/L		420.00		-	-
BORON	05/25/83	0001	MG/L	<	0.05		0.05	-
CADMIUM	05/25/83	0001	MG/L	<	0.01		0.01	-
CALCIUM	05/25/83	0001	MG/L		4.90		-	-
CARBONATE	05/25/83	0001	MG/L	<	10.00		10.	-
CHLORIDE	05/25/83	0001	MG/L	<	1.00		1.	-
CHROMIUM	05/25/83	0001	MG/L	<	0.03		0.03	-
COBALT	05/25/83	0001	MG/L	<	0.04		0.04	-
COPPER	05/25/83	0001	MG/L	<	0.03		0.03	-
CYANIDE	05/25/83	0001	MG/L	<	1.00		1.	-
FLUORIDE	05/25/83	0001	MG/L	<	1.00		1.	-
IRON	05/25/83	0001	MG/L	<	0.05		0.05	-
LEAD	05/25/83	0001	MG/L		0.033		-	-
MAGNESIUM	05/25/83	0001	MG/L		21.00		-	-
MANGANESE	05/25/83	0001	MG/L	<	0.02		0.02	-
MOLYBDENUM	05/25/83	0001	MG/L		0.023		-	-
NICKEL	05/25/83	0001	MG/L	<	0.08		0.08	-
NITRATE	05/25/83	0001	MG/L	<	1.00		1.	-
PH	05/25/83	0001	SU		8.80		-	-
POTASSIUM	05/25/83	0001	MG/L		6.30		-	-
RADIUM-226	05/25/83	0001	PCI/L		0.13		-	-
RADIUM-226 + RADIUM-228	05/25/83	0001	PCI/L		0.26		-	-
RADIUM-228	05/25/83	0001	PCI/L		0.13		-	-
SELENIUM	05/25/83	0001	MG/L		0.086		-	-
SILVER	05/25/83	0001	MG/L	<	0.03		0.03	-
SODIUM	05/25/83	0001	MG/L		110.00		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0583
 NORTH COORDINATE: 45780.0 FT
 EAST COORDINATE: 57270.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: DAKOTA SANDSTONE (KD)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SULFATE	05/25/83	0001	MG/L		36.00		-	-
TOTAL DISSOLVED SOLIDS	05/25/83	0001	MG/L		390.00		-	-
TOTAL ORGANIC CARBON	05/25/83	0001	MG/L	<	5.00		5.	-
URANIUM	05/25/83	0001	MG/L		0.008		-	-
VANADIUM	05/25/83	0001	MG/L	<	0.04		0.04	-
ZINC	05/25/83	0001	MG/L		0.014		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0584
 NORTH COORDINATE: 45290.0 FT
 EAST COORDINATE: 56310.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: DAKOTA SANDSTONE (KD)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALUMINUM	05/26/83	0001	MG/L	<	0.20		0.2	-
ARSENIC	05/26/83	0001	MG/L	<	0.10		0.1	-
BARIUM	05/26/83	0001	MG/L		0.05		-	-
BICARBONATE - HCO3	05/26/83	0001	MG/L		110.00		-	-
BORON	05/26/83	0001	MG/L	<	0.05		0.05	-
CADMIUM	05/26/83	0001	MG/L	<	0.01		0.01	-
CALCIUM	05/26/83	0001	MG/L		110.00		-	-
CARBONATE	05/26/83	0001	MG/L	<	10.00		10.	-
CHLORIDE	05/26/83	0001	MG/L		27.00		-	-
CHROMIUM	05/26/83	0001	MG/L	<	0.03		0.03	-
COBALT	05/26/83	0001	MG/L	<	0.04		0.04	-
COPPER	05/26/83	0001	MG/L	<	0.03		0.03	-
CYANIDE	05/26/83	0001	MG/L	<	1.00		1.	-
IRON	05/26/83	0001	MG/L	<	0.05		0.05	-
LEAD	05/26/83	0001	MG/L		0.047		-	-
MAGNESIUM	05/26/83	0001	MG/L		56.00		-	-
MANGANESE	05/26/83	0001	MG/L		0.60		-	-
MOLYBDENUM	05/26/83	0001	MG/L	<	0.02		0.02	-
NICKEL	05/26/83	0001	MG/L	<	0.08		0.08	-
NITRATE	05/26/83	0001	MG/L		1.00		-	-
POTASSIUM	05/26/83	0001	MG/L		10.00		-	-
RADIUM-226	05/26/83	0001	PCI/L	<	1.30		1.3	-
RADIUM-226 + RADIUM-228	05/26/83	0001	PCI/L		1.30		-	-
RADIUM-228	05/26/83	0001	PCI/L	<	1.30		1.3	-
SELENIUM	05/26/83	0001	MG/L		0.048		-	-
SILVER	05/26/83	0001	MG/L	<	0.03		0.03	-
SODIUM	05/26/83	0001	MG/L		56.00		-	-
SULFATE	05/26/83	0001	MG/L		420.00		-	-
URANIUM	05/26/83	0001	MG/L		0.004		-	-
VANADIUM	05/26/83	0001	MG/L	<	0.04		0.04	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
SITE: AMB01 AMBROSIA LAKE
LOCATION: 0584
NORTH COORDINATE: 45290.0 FT
EAST COORDINATE: 56310.0 FT
06/10/80 TO 12/04/92
REPORT DATE: 08/04/94

FORMATION OF COMPLETION: DAKOTA SANDSTONE (KD)
HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ZINC	05/26/83	0001	MG/L		0.044		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0585
 NORTH COORDINATE: 56520.0 FT
 EAST COORDINATE: 47090.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: DAKOTA SANDSTONE (KD)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	11/14/83	0001	MG/L CaCO3		8.20		-	-
ALUMINUM	11/05/80 11/14/83	0001 0001	MG/L	<	0.05 0.091		0.05 -	- -
ARSENIC	11/05/80 11/14/83	0001 0001	MG/L	<	0.001 0.057		0.001 -	- -
BARIUM	11/05/80 11/14/83	0001 0001	MG/L		0.03 0.046		- -	- -
BICARBONATE - HCO3	11/05/80 11/14/83	0001 0001	MG/L		24.00 20.00		- -	- -
BORON	11/05/80 11/14/83	0001 0001	MG/L		7.20 4.70		- -	- -
CADMIUM	11/05/80 11/14/83	0001 0001	MG/L	< <	0.008 0.007		0.008 0.007	- -
CALCIUM	11/05/80 11/14/83	0001 0001	MG/L		29.00 110.00		- -	- -
CARBONATE	11/14/83	0001	MG/L	<	10.00		10.	-
CHLORIDE	11/05/80 11/14/83	0001 0001	MG/L	<	10.00 90.00		10. -	- -
CHROMIUM	11/05/80 11/14/83	0001 0001	MG/L	< <	0.001 0.026		0.001 0.026	- -
COBALT	11/05/80 11/14/83	0001 0001	MG/L	< <	0.006 0.011		0.006 0.011	- -
COPPER	11/05/80 11/14/83	0001 0001	MG/L	<	0.19 0.017		- 0.017	- -
CYANIDE	11/14/83	0001	MG/L	<	1.00		1.	-
FLUORIDE	11/05/80 11/14/83	0001 0001	MG/L	< <	0.20 1.00		0.2 1.	- -
IRON	11/05/80 11/14/83	0001 0001	MG/L	<	0.053 0.024		- 0.024	- -
LEAD	11/05/80 11/14/83	0001 0001	MG/L	<	0.001 0.023		0.001 -	- -
MAGNESIUM	11/05/80 11/14/83	0001 0001	MG/L		0.27 9.90		- -	- -
MANGANESE	11/05/80 11/14/83	0001 0001	MG/L	<	0.004 0.003		- 0.003	- -
MERCURY	11/05/80	0001	MG/L	<	0.001		0.001	-
MOLYBDENUM	11/05/80 11/14/83	0001 0001	MG/L		0.066 0.021		- -	- -

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 · AMBROSIA LAKE
 LOCATION: 0585
 NORTH COORDINATE: 56520.0 FT
 EAST COORDINATE: 47090.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: DAKOTA SANDSTONE (KD)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
NICKEL	11/05/80	0001	MG/L		0.051		-	-
	11/14/83	0001		<	0.038		0.038	-
NITRATE	11/05/80	0001	MG/L		5.30		-	-
	11/14/83	0001			1.00		-	-
PH	11/05/80	0001	SU		9.90		-	-
	11/14/83	0001			9.80		-	-
POTASSIUM	11/05/80	0001	MG/L		11.00		-	-
	11/14/83	0001			16.00		-	-
RADIUM-226	11/05/80	0001	PCI/L		6.60		-	-
	11/14/83	0001		<	3.80		3.8	-
RADIUM-226 + RADIUM-228	11/14/83	0001	PCI/L		3.80		-	-
RADIUM-228	11/14/83	0001	PCI/L	<	3.80		3.8	-
SELENIUM	11/05/80	0001	MG/L		0.013		-	-
	11/14/83	0001			0.041		-	-
SILVER	11/05/80	0001	MG/L	<	0.002		0.002	-
	11/14/83	0001		<	0.02		0.02	-
SODIUM	11/05/80	0001	MG/L		75.00		-	-
	11/14/83	0001			190.00		-	-
SPECIFIC CONDUCTANCE	11/05/80	0001	UMHO/CM		530.00		-	-
SULFATE	11/05/80	0001	MG/L		170.00		-	-
	11/14/83	0001			590.00		-	-
TOTAL DISSOLVED SOLIDS	11/05/80	0001	MG/L		376.00		-	-
	11/14/83	0001			1120.00		-	-
TOTAL SUSPENDED SOLIDS	11/05/80	0001	MG/L		21.00		-	-
URANIUM	11/05/80	0001	MG/L		0.078		-	-
	11/14/83	0001			0.004		-	-
VANADIUM	11/05/80	0001	MG/L	<	0.003		0.003	-
	11/14/83	0001		<	0.005		0.005	-
ZINC	11/05/80	0001	MG/L		0.12		-	-
	11/14/83	0001		<	0.008		0.008	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0586
 NORTH COORDINATE: 53590.0 FT
 EAST COORDINATE: 48410.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: DAKOTA SANDSTONE (KD)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALUMINUM	10/20/80 05/26/83	0001 0001	MG/L	<	0.05 0.43		0.05 -	- -
ARSENIC	10/20/80 05/26/83	0001 0001	MG/L		0.033 0.18		- -	- -
BARIUM	10/20/80 05/26/83	0001 0001	MG/L		0.017 0.034		- -	- -
BICARBONATE - HCO3	10/20/80 05/26/83	0001 0001	MG/L	<	279.00 10.00		- 10.	- -
BORON	10/20/80 05/26/83	0001 0001	MG/L		0.58 0.48		- -	- -
CADMIUM	10/20/80 05/26/83	0001 0001	MG/L	<	0.008 0.029		0.008 -	- -
CALCIUM	10/20/80 05/26/83	0001 0001	MG/L		450.00 760.00		- -	- -
CARBONATE	05/26/83	0001	MG/L	<	10.00		10.	-
CHLORIDE	10/20/80 05/26/83	0001 0001	MG/L		375.00 1070.00		- -	- -
CHROMIUM	10/20/80 05/26/83	0001 0001	MG/L		0.006 0.096		- -	- -
COBALT	10/20/80 05/26/83	0001 0001	MG/L	<	0.006 0.066		0.006 -	- -
COPPER	10/20/80 05/26/83	0001 0001	MG/L		0.011 0.073		- -	- -
CYANIDE	05/26/83	0001	MG/L	<	1.00		1.	-
FLUORIDE	10/20/80 05/26/83	0001 0001	MG/L	<	0.20 4.00		0.2 -	- -
IRON	10/20/80 05/26/83	0001 0001	MG/L		0.057 33.00		- -	- -
LEAD	10/20/80 05/26/83	0001 0001	MG/L		0.003 0.46		- -	- -
MAGNESIUM	10/20/80 05/26/83	0001 0001	MG/L		230.00 330.00		- -	- -
MANGANESE	10/20/80 05/26/83	0001 0001	MG/L		0.74 2.90		- -	- -
MERCURY	10/20/80	0001	MG/L	<	0.001		0.001	-
MOLYBDENUM	10/20/80 05/26/83	0001 0001	MG/L		0.08 0.04		- -	- -
NICKEL	10/20/80	0001	MG/L		0.05		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0586
 NORTH COORDINATE: 53590.0 FT
 EAST COORDINATE: 48410.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: DAKOTA SANDSTONE (KD)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
NICKEL	05/26/83	0001	MG/L		0.18		-	-
NITRATE	10/20/80	0001	MG/L		2.80		-	-
	05/26/83	0001			2.00		-	-
PH	10/20/80	0001	SU		7.70		-	-
	05/26/83	0001			5.00		-	-
POTASSIUM	10/20/80	0001	MG/L		19.00		-	-
	05/26/83	0001			26.00		-	-
RADIUM-226	10/20/80	0001	PCI/L		3.07		-	-
	05/26/83	0001			2.86		-	-
RADIUM-226 + RADIUM-228	05/26/83	0001	PCI/L		5.72		-	-
RADIUM-228	05/26/83	0001	PCI/L		2.86		-	-
SELENIUM	10/20/80	0001	MG/L		0.025		-	-
	05/26/83	0001			0.26		-	-
SILVER	10/20/80	0001	MG/L	<	0.002		0.002	-
	05/26/83	0001			0.10		-	-
SODIUM	10/20/80	0001	MG/L		210.00		-	-
	05/26/83	0001			500.00		-	-
SPECIFIC CONDUCTANCE	10/20/80	0001	UMHO/CM		4020.00		-	-
SULFATE	10/20/80	0001	MG/L		1615.00		-	-
	05/26/83	0001			2770.00		-	-
TOTAL DISSOLVED SOLIDS	10/20/80	0001	MG/L		3280.00		-	-
	05/26/83	0001			4880.00		-	-
TOTAL SUSPENDED SOLIDS	10/20/80	0001	MG/L		124.00		-	-
URANIUM	10/20/80	0001	MG/L		0.06		-	-
	05/26/83	0001			0.004		-	-
VANADIUM	10/20/80	0001	MG/L	<	0.003		0.003	-
	05/26/83	0001			0.091		-	-
ZINC	10/20/80	0001	MG/L		0.21		-	-
	05/26/83	0001			0.23		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0587
 NORTH COORDINATE: 54400.0 FT
 EAST COORDINATE: 51480.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: DAKOTA SANDSTONE (KD)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	08/15/83	0001	MG/L CaCO3		258.00		-	-
ALUMINUM	08/15/83	0001	MG/L		0.52		-	-
ARSENIC	08/15/83	0001	MG/L		0.45		-	-
BARIUM	08/15/83	0001	MG/L		0.021		-	-
BICARBONATE - HCO3	08/15/83	0001	MG/L		630.00		-	-
BORON	08/15/83	0001	MG/L		0.36		-	-
CADMIUM	08/15/83	0001	MG/L		0.02		-	-
CALCIUM	08/15/83	0001	MG/L		640.00		-	-
CARBONATE	08/15/83	0001	MG/L	<	10.00		10.	-
CHLORIDE	08/15/83	0001	MG/L		770.00		-	-
CHROMIUM	08/15/83	0001	MG/L		0.096		-	-
COBALT	08/15/83	0001	MG/L		0.072		-	-
COPPER	08/15/83	0001	MG/L		0.12		-	-
CYANIDE	08/15/83	0001	MG/L	<	1.00		1.	-
FLUORIDE	08/15/83	0001	MG/L		1.10		-	-
IRON	08/15/83	0001	MG/L		0.82		-	-
LEAD	08/15/83	0001	MG/L		0.39		-	-
MAGNESIUM	08/15/83	0001	MG/L		440.00		-	-
MANGANESE	08/15/83	0001	MG/L		2.80		-	-
MOLYBDENUM	08/15/83	0001	MG/L		0.055		-	-
NICKEL	08/15/83	0001	MG/L		0.14		-	-
NITRATE	08/15/83	0001	MG/L	<	1.00		1.	-
PH	08/15/83	0001	SU		6.70		-	-
POTASSIUM	08/15/83	0001	MG/L		15.00		-	-
RADIUM-226	08/15/83	0001	PCI/L	<	3.30		3.3	-
RADIUM-226 + RADIUM-228	08/15/83	0001	PCI/L		3.30		-	-
RADIUM-228	08/15/83	0001	PCI/L	<	3.30		3.3	-
SELENIUM	08/15/83	0001	MG/L		0.49		-	-
SILVER	08/15/83	0001	MG/L		0.14		-	-
SODIUM	08/15/83	0001	MG/L		330.00		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
SITE: AMB01 AMBROSIA LAKE
LOCATION: 0587
NORTH COORDINATE: 54400.0 FT
EAST COORDINATE: 51480.0 FT
06/10/80 TO 12/04/92
REPORT DATE: 08/04/94

FORMATION OF COMPLETION: DAKOTA SANDSTONE (KD)
HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SULFATE	08/15/83	0001	MG/L		2590.00		-	-
TOTAL DISSOLVED SOLIDS	08/15/83	0001	MG/L		5380.00		-	-
URANIUM	08/15/83	0001	MG/L		0.038		-	-
VANADIUM	08/15/83	0001	MG/L		0.098		-	-
ZINC	08/15/83	0001	MG/L		0.14		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0588
 NORTH COORDINATE: 51630.0 FT
 EAST COORDINATE: 50720.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: DAKOTA SANDSTONE (KD)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	08/18/83	0001	MG/L CaCO_3		49.20		-	-
ALUMINUM	10/21/80 08/18/83	0001 0001	MG/L		0.03 0.14		- -	- -
ARSENIC	10/21/80 08/18/83	0001 0001	MG/L		0.035 0.12		- -	- -
BARIUM	10/21/80 08/18/83	0001 0001	MG/L		0.016 0.017		- -	- -
BICARBONATE - HCO_3	10/21/80 08/18/83	0001 0001	MG/L		200.00 120.00		- -	- -
BORON	10/21/80 08/18/83	0001 0001	MG/L		0.078 0.23		- -	- -
CADMIUM	10/21/80 08/18/83	0001 0001	MG/L	<	0.008 0.008		0.008 -	- -
CALCIUM	10/21/80 08/18/83	0001 0001	MG/L		160.00 180.00		- -	- -
CARBONATE	08/18/83	0001	MG/L	<	10.00		10.	-
CHLORIDE	10/21/80 08/18/83	0001 0001	MG/L		80.00 95.00		- -	- -
CHROMIUM	10/21/80 08/18/83	0001 0001	MG/L	< <	0.001 0.026		0.001 0.026	- -
COBALT	10/21/80 08/18/83	0001 0001	MG/L	<	0.006 0.015		0.006 -	- -
COPPER	10/21/80 08/18/83	0001 0001	MG/L	<	0.001 0.036		0.001 -	- -
CYANIDE	08/18/83	0001	MG/L	<	0.10		0.1	-
FLUORIDE	10/21/80 08/18/83	0001 0001	MG/L	<	0.38 1.00		- 1.	- -
IRON	10/21/80 08/18/83	0001 0001	MG/L		0.15 0.025		- -	- -
LEAD	10/21/80 08/18/83	0001 0001	MG/L	<	0.001 0.14		0.001 -	- -
MAGNESIUM	10/21/80 08/18/83	0001 0001	MG/L		42.00 44.00		- -	- -
MANGANESE	10/21/80 08/18/83	0001 0001	MG/L		0.082 0.025		- -	- -
MERCURY	10/21/80	0001	MG/L	<	0.001		0.001	-
MOLYBDENUM	10/21/80 08/18/83	0001 0001	MG/L		0.09 0.041		- -	- -

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0588
 NORTH COORDINATE: 51630.0 FT
 EAST COORDINATE: 50720.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: DAKOTA SANDSTONE (KD)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
NICKEL	10/21/80 08/18/83	0001 0001	MG/L	<	0.003 0.049		0.003 -	- -
NITRATE	10/21/80 08/18/83	0001 0001	MG/L	<	1.30 1.00		- 1.	- -
PH	10/21/80 08/18/83	0001 0001	SU		7.80 7.40		- -	- -
POTASSIUM	10/21/80 08/18/83	0001 0001	MG/L		12.00 12.00		- -	- -
RADIUM-226	10/21/80 08/18/83	0001 0001	PCI/L		15.48 2.33		- -	- -
RADIUM-226 + RADIUM-228	08/18/83	0001	PCI/L		4.66		-	-
RADIUM-228	08/18/83	0001	PCI/L		2.33		-	-
SELENIUM	10/21/80 08/18/83	0001 0001	MG/L		0.11 0.12		- -	- -
SILVER	10/21/80 08/18/83	0001 0001	MG/L	<	0.002 0.041		0.002 -	- -
SODIUM	10/21/80 08/18/83	0001 0001	MG/L		300.00 280.00		- -	- -
SPECIFIC CONDUCTANCE	10/21/80	0001	UMHO/CM		2340.00		-	-
SULFATE	10/21/80 08/18/83	0001 0001	MG/L		970.00 900.00		- -	- -
TOTAL DISSOLVED SOLIDS	10/21/80 08/18/83	0001 0001	MG/L		1800.00 1560.00		- -	- -
TOTAL SUSPENDED SOLIDS	10/21/80	0001	MG/L		9830.00		-	-
URANIUM	10/21/80 08/18/83	0001 0001	MG/L		0.11 0.022		- -	- -
VANADIUM	10/21/80 08/18/83	0001 0001	MG/L		0.006 0.032		- -	- -
ZINC	10/21/80 08/18/83	0001 0001	MG/L		0.026 0.03		- -	- -

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0589
 NORTH COORDINATE: 50500.0 FT
 EAST COORDINATE: 54790.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: DAKOTA SANDSTONE (KD)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALUMINUM	10/20/80 05/25/83	0001 0001	MG/L		0.33 0.51		- -	- -
ARSENIC	10/20/80 05/25/83	0001 0001	MG/L	<	0.015 0.20		- 0.2	- -
BARIUM	10/20/80 05/25/83	0001 0001	MG/L		0.092 0.06		- -	- -
BICARBONATE - HCO3	05/25/83	0001	MG/L	<	10.00		10.	-
BORON	10/20/80 05/25/83	0001 0001	MG/L		0.97 0.54		- -	- -
CADMIUM	10/20/80 05/25/83	0001 0001	MG/L	< <	0.008 0.50		0.008 0.5	- -
CALCIUM	10/20/80 05/25/83	0001 0001	MG/L		120.00 110.00		- -	- -
CARBONATE	05/25/83	0001	MG/L	<	10.00		10.	-
CHLORIDE	10/20/80 05/25/83	0001 0001	MG/L		146.00 210.00		- -	- -
CHROMIUM	10/20/80 05/25/83	0001 0001	MG/L	< <	0.001 0.50		0.001 0.5	- -
COBALT	10/20/80 05/25/83	0001 0001	MG/L	< <	0.006 0.50		0.006 0.5	- -
COPPER	10/20/80 05/25/83	0001 0001	MG/L	<	0.005 0.50		- 0.5	- -
CYANIDE	05/25/83	0001	MG/L	<	1.00		1.	-
FLUORIDE	10/20/80 05/25/83	0001 0001	MG/L		0.27 1.00		- -	- -
IRON	10/20/80 05/25/83	0001 0001	MG/L	<	0.093 0.25		- 0.25	- -
LEAD	10/20/80 05/25/83	0001 0001	MG/L	<	0.001 0.027		0.001 -	- -
MAGNESIUM	10/20/80 05/25/83	0001 0001	MG/L	<	0.11 0.50		- 0.5	- -
MANGANESE	10/20/80 05/25/83	0001 0001	MG/L	< <	0.002 0.05		0.002 0.05	- -
MERCURY	10/20/80	0001	MG/L	<	0.001		0.001	-
MOLYBDENUM	10/20/80 05/25/83	0001 0001	MG/L	<	0.27 0.011		- 0.011	- -
NICKEL	10/20/80 05/25/83	0001 0001	MG/L	<	0.041 0.01		- 0.01	- -

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0589
 NORTH COORDINATE: 50500.0 FT
 EAST COORDINATE: 54790.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: DAKOTA SANDSTONE (KD)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
NITRATE	10/20/80	0001	MG/L		4.60		-	-
	05/25/83	0001		<	1.00		1.	-
PH	10/20/80	0001	SU		11.50		-	-
	05/25/83	0001			11.40		-	-
POTASSIUM	10/20/80	0001	MG/L		13.00		-	-
	05/25/83	0001			9.40		-	-
RADIUM-226	10/20/80	0001	PCI/L		1.097		-	-
	05/25/83	0001		<	2.00		2.	-
RADIUM-226 + RADIUM-228	05/25/83	0001	PCI/L		2.00		-	-
RADIUM-228	05/25/83	0001	PCI/L	<	2.00		2.	-
SELENIUM	10/20/80	0001	MG/L		0.16		-	-
	05/25/83	0001			0.053		-	-
SILVER	10/20/80	0001	MG/L	<	0.002		0.002	-
	05/25/83	0001		<	0.50		0.5	-
SODIUM	10/20/80	0001	MG/L		190.00		-	-
	05/25/83	0001			170.00		-	-
SPECIFIC CONDUCTANCE	10/20/80	0001	UMHO/CM		1730.00		-	-
SULFATE	10/20/80	0001	MG/L		400.00		-	-
	05/25/83	0001			220.00		-	-
TOTAL DISSOLVED SOLIDS	10/20/80	0001	MG/L		961.00		-	-
	05/25/83	0001			820.00		-	-
TOTAL SUSPENDED SOLIDS	10/20/80	0001	MG/L		3.00		-	-
URANIUM	10/20/80	0001	MG/L		0.05		-	-
	05/25/83	0001			0.006		-	-
VANADIUM	10/20/80	0001	MG/L	<	0.003		0.003	-
	05/25/83	0001		<	0.04		0.04	-
ZINC	10/20/80	0001	MG/L		0.059		-	-
	05/25/83	0001			0.013		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0590
 NORTH COORDINATE: 51910.0 FT
 EAST COORDINATE: 54880.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: DAKOTA SANDSTONE (KD)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	11/14/83	0001	MG/L CaCO3		8.20		-	-
ALUMINUM	06/23/80 11/14/83	0001 0001	MG/L		1.60 0.15		- -	- -
ARSENIC	06/23/80 11/14/83	0001 0001	MG/L		0.13 0.064		- -	- -
BARIUM	06/23/80 11/14/83	0001 0001	MG/L	<	0.001 0.014		0.001 -	- -
BICARBONATE - HCO3	06/23/80 11/14/83	0001 0001	MG/L		293.00 20.00		- -	- -
BORON	06/23/80 11/14/83	0001 0001	MG/L		1.00 0.44		- -	- -
CADMIUM	06/23/80 11/14/83	0001 0001	MG/L	< <	0.008 0.007		0.008 0.007	- -
CALCIUM	06/23/80 11/14/83	0001 0001	MG/L		670.00 240.00		- -	- -
CARBONATE	11/14/83	0001	MG/L	<	10.00		10.	-
CHLORIDE	06/23/80 11/14/83	0001 0001	MG/L		2120.00 1310.00		- -	- -
CHROMIUM	06/23/80 11/14/83	0001 0001	MG/L		0.037 0.038		- -	- -
COBALT	06/23/80 11/14/83	0001 0001	MG/L	<	0.006 0.014		0.006 -	- -
COPPER	06/23/80 11/14/83	0001 0001	MG/L		0.01 0.019		- -	- -
CYANIDE	11/14/83	0001	MG/L	<	1.00		1.	-
FLUORIDE	06/23/80 11/14/83	0001 0001	MG/L	<	0.05 1.00		- 1.	- -
IRON	06/23/80 11/14/83	0001 0001	MG/L	<	0.001 0.17		0.001 -	- -
LEAD	06/23/80 11/14/83	0001 0001	MG/L		0.008 0.033		- -	- -
MAGNESIUM	06/23/80 11/14/83	0001 0001	MG/L		400.00 510.00		- -	- -
MANGANESE	06/23/80 11/14/83	0001 0001	MG/L		0.51 0.70		- -	- -
MERCURY	06/23/80	0001	MG/L	<	0.001		0.001	-
MOLYBDENUM	06/23/80 11/14/83	0001 0001	MG/L	<	0.002 0.018		- 0.018	- -

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0590
 NORTH COORDINATE: 51910.0 FT
 EAST COORDINATE: 54880.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: DAKOTA SANDSTONE (KD)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
NICKEL	06/23/80	0001	MG/L		0.014		-	-
	11/14/83	0001			0.038		-	-
NITRATE	06/23/80	0001	MG/L		50.00		-	-
	11/14/83	0001			10.00		-	-
PH	06/23/80	0001	SU		7.30		-	-
	11/14/83	0001			6.00		-	-
POTASSIUM	06/23/80	0001	MG/L		7.80		-	-
	11/14/83	0001			7.70		-	-
RADIUM-226	06/23/80	0001	PCI/L	<	0.50		-	-
	11/14/83	0001			3.60		3.6	-
RADIUM-226 + RADIUM-228	11/14/83	0001	PCI/L		3.60		-	-
RADIUM-228	11/14/83	0001	PCI/L	<	3.60		3.6	-
SELENIUM	06/23/80	0001	MG/L		0.32		-	-
	11/14/83	0001			0.11		-	-
SILVER	06/23/80	0001	MG/L		0.009		-	-
	11/14/83	0001			0.028		-	-
SODIUM	06/23/80	0001	MG/L		1100.00		-	-
	11/14/83	0001			1000.00		-	-
SPECIFIC CONDUCTANCE	06/23/80	0001	UMHO/CM		8770.00		-	-
SULFATE	06/23/80	0001	MG/L		2810.00		-	-
	11/14/83	0001			2630.00		-	-
TOTAL DISSOLVED SOLIDS	06/23/80	0001	MG/L		7510.00		-	-
	11/14/83	0001			6270.00		-	-
TOTAL SUSPENDED SOLIDS	06/23/80	0001	MG/L		33.00		-	-
URANIUM	06/23/80	0001	MG/L		0.31		-	-
	11/14/83	0001			0.015		-	-
VANADIUM	06/23/80	0001	MG/L	<	0.003		0.003	-
	11/14/83	0001			0.021		-	-
ZINC	06/23/80	0001	MG/L		0.096		-	-
	11/14/83	0001			0.14		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0591
 NORTH COORDINATE: 50580.0 FT
 EAST COORDINATE: 55640.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: DAKOTA SANDSTONE (KD)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALUMINUM	06/23/80	0001	MG/L		1.10		-	-
ARSENIC	06/23/80	0001	MG/L		0.086		-	-
BARIUM	06/23/80	0001	MG/L	<	0.001		0.001	-
BICARBONATE - HCO3	06/23/80	0001	MG/L		230.00		-	-
BORON	06/23/80	0001	MG/L		0.94		-	-
CADMIUM	06/23/80	0001	MG/L	<	0.008		0.008	-
CALCIUM	06/23/80	0001	MG/L		460.00		-	-
CHLORIDE	06/23/80	0001	MG/L		184.00		-	-
CHROMIUM	06/23/80	0001	MG/L		0.025		-	-
COBALT	06/23/80	0001	MG/L		0.047		-	-
COPPER	06/23/80	0001	MG/L		0.047		-	-
FLUORIDE	06/23/80	0001	MG/L		0.40		-	-
LEAD	06/23/80	0001	MG/L		0.012		-	-
MAGNESIUM	06/23/80	0001	MG/L		240.00		-	-
MANGANESE	06/23/80	0001	MG/L		0.66		-	-
MERCURY	06/23/80	0001	MG/L	<	0.001		0.001	-
MOLYBDENUM	06/23/80	0001	MG/L		0.002		-	-
NICKEL	06/23/80	0001	MG/L	<	0.003		0.003	-
NITRATE	06/23/80	0001	MG/L		18.00		-	-
PH	06/23/80	0001	SU		7.80		-	-
POTASSIUM	06/23/80	0001	MG/L		4.10		-	-
RADIUM-226	06/23/80	0001	PCI/L		0.91		-	-
SELENIUM	06/23/80	0001	MG/L		0.26		-	-
SILVER	06/23/80	0001	MG/L	<	0.002		0.002	-
SODIUM	06/23/80	0001	MG/L		610.00		-	-
SPECIFIC CONDUCTANCE	06/23/80	0001	UMHO/CM		5200.00		-	-
SULFATE	06/23/80	0001	MG/L		3090.00		-	-
TOTAL DISSOLVED SOLIDS	06/23/80	0001	MG/L		5050.00		-	-
TOTAL SUSPENDED SOLIDS	06/23/80	0001	MG/L		10.00		-	-
URANIUM	06/23/80	0001	MG/L		0.24		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
SITE: AMB01 AMBROSIA LAKE
LOCATION: 0591
NORTH COORDINATE: 50580.0 FT
EAST COORDINATE: 55640.0 FT
06/10/80 TO 12/04/92
REPORT DATE: 08/04/94

FORMATION OF COMPLETION: DAKOTA SANDSTONE (KD)
HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
VANADIUM	06/23/80	0001	MG/L	<	0.003		0.003	-
ZINC	06/23/80	0001	MG/L		0.063		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0592
 NORTH COORDINATE: 48150.0 FT
 EAST COORDINATE: 56680.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: DAKOTA SANDSTONE (KD)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALUMINUM	06/24/80 05/24/83	0001 0001	MG/L	<	0.51 0.20		- 0.2	- -
ARSENIC	06/24/80 05/24/83	0001 0001	MG/L	<	0.04 0.10		- 0.1	- -
BARIUM	06/24/80 05/24/83	0001 0001	MG/L	<	0.001 0.025		0.001 -	- -
BICARBONATE - HCO3	06/24/80 05/24/83	0001 0001	MG/L	<	147.00 10.00		- 10.	- -
BORON	06/24/80 05/24/83	0001 0001	MG/L	<	1.00 0.05		- 0.05	- -
CADMIUM	06/24/80 05/24/83	0001 0001	MG/L	< <	0.008 0.01		0.008 0.01	- -
CALCIUM	06/24/80 05/24/83	0001 0001	MG/L		420.00 140.00		- -	- -
CARBONATE	05/24/83	0001	MG/L	<	10.00		10.	-
CHLORIDE	06/24/80 05/24/83	0001 0001	MG/L		44.00 49.00		- -	- -
CHROMIUM	06/24/80 05/24/83	0001 0001	MG/L	<	0.001 0.032		0.001 -	- -
COBALT	06/24/80 05/24/83	0001 0001	MG/L	< <	0.006 0.04		0.006 0.04	- -
COPPER	06/24/80 05/24/83	0001 0001	MG/L	< <	0.001 0.03		0.001 0.03	- -
CYANIDE	05/24/83	0001	MG/L		6.00		-	-
FLUORIDE	06/24/80 05/24/83	0001 0001	MG/L	<	0.56 1.00		- 1.	- -
IRON	06/24/80 05/24/83	0001 0001	MG/L	< <	0.008 0.05		0.008 0.05	- -
LEAD	06/24/80 05/24/83	0001 0001	MG/L		0.005 0.024		- -	- -
MAGNESIUM	06/24/80 05/24/83	0001 0001	MG/L		140.00 52.00		- -	- -
MANGANESE	06/24/80 05/24/83	0001 0001	MG/L	<	0.12 0.02		- 0.02	- -
MERCURY	06/24/80	0001	MG/L	<	0.001		0.001	-
MOLYBDENUM	06/24/80 05/24/83	0001 0001	MG/L	<	0.018 0.02		- 0.02	- -
NICKEL	06/24/80	0001	MG/L	<	0.003		0.003	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0592
 NORTH COORDINATE: 48150.0 FT
 EAST COORDINATE: 56680.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: DAKOTA SANDSTONE (KD)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
NICKEL	05/24/83	0001	MG/L	<	0.08		0.08	-
NITRATE	06/24/80	0001	MG/L		42.00		-	-
	05/24/83	0001		<	1.00		1.	-
PH	06/24/80	0001	SU		7.90		-	-
	05/24/83	0001			9.00		-	-
POTASSIUM	06/24/80	0001	MG/L		4.70		-	-
	05/24/83	0001			9.20		-	-
RADIUM-226	06/24/80	0001	PCI/L		1.42		-	-
	05/24/83	0001			3.16		-	-
RADIUM-226 + RADIUM-228	05/24/83	0001	PCI/L		6.32		-	-
RADIUM-228	05/24/83	0001	PCI/L		3.16		-	-
SELENIUM	06/24/80	0001	MG/L		0.26		-	-
	05/24/83	0001			0.052		-	-
SILVER	06/24/80	0001	MG/L	<	0.002		0.002	-
	05/24/83	0001		<	0.03		0.03	-
SODIUM	06/24/80	0001	MG/L		290.00		-	-
	05/24/83	0001			130.00		-	-
SPECIFIC CONDUCTANCE	06/24/80	0001	UMHO/CM		3570.00		-	-
SULFATE	06/24/80	0001	MG/L		2040.00		-	-
	05/24/83	0001			760.00		-	-
TOTAL DISSOLVED SOLIDS	06/24/80	0001	MG/L		3440.00		-	-
	05/24/83	0001			1220.00		-	-
TOTAL SUSPENDED SOLIDS	06/24/80	0001	MG/L		70.00		-	-
URANIUM	06/24/80	0001	MG/L		0.085		-	-
	05/24/83	0001			0.008		-	-
VANADIUM	06/24/80	0001	MG/L	<	0.003		0.003	-
ZINC	06/24/80	0001	MG/L		0.059		-	-
	05/24/83	0001			0.04		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0593
 NORTH COORDINATE: 52240.0 FT
 EAST COORDINATE: 45590.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: DAKOTA SANDSTONE (KD)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALUMINUM	08/16/83	0001	MG/L		0.65		-	-
ARSENIC	08/16/83	0001	MG/L		0.26		-	-
BARIUM	08/16/83	0001	MG/L		0.028		-	-
BICARBONATE - HCO3	08/16/83	0001	MG/L	<	10.00		10.	-
BORON	08/16/83	0001	MG/L		1.30		-	-
CADMIUM	08/16/83	0001	MG/L		0.042		-	-
CALCIUM	08/16/83	0001	MG/L		510.00		-	-
CARBONATE	08/16/83	0001	MG/L	<	10.00		10.	-
CHLORIDE	08/16/83	0001	MG/L		2630.00		-	-
CHROMIUM	08/16/83	0001	MG/L		0.12		-	-
COBALT	08/16/83	0001	MG/L		0.074		-	-
COPPER	08/16/83	0001	MG/L		0.12		-	-
CYANIDE	08/16/83	0001	MG/L	<	0.10		0.1	-
FLUORIDE	08/16/83	0001	MG/L		9.90		-	-
IRON	08/16/83	0001	MG/L		500.00		-	-
LEAD	08/16/83	0001	MG/L		0.46		-	-
MAGNESIUM	08/16/83	0001	MG/L		700.00		-	-
MANGANESE	08/16/83	0001	MG/L		10.00		-	-
MOLYBDENUM	08/16/83	0001	MG/L		0.058		-	-
NICKEL	08/16/83	0001	MG/L		0.17		-	-
NITRATE	08/16/83	0001	MG/L		9.20		-	-
PH	08/16/83	0001	SU		4.60		-	-
POTASSIUM	08/16/83	0001	MG/L		28.00		-	-
RADIUM-226	08/16/83	0001	PCI/L	<	2.30		2.3	-
RADIUM-226 + RADIUM-228	08/16/83	0001	PCI/L		2.30		-	-
RADIUM-228	08/16/83	0001	PCI/L	<	2.30		2.3	-
SELENIUM	08/16/83	0001	MG/L		0.43		-	-
SILVER	08/16/83	0001	MG/L		0.14		-	-
SODIUM	08/16/83	0001	MG/L		1200.00		-	-
SULFATE	08/16/83	0001	MG/L		3770.00		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0593
 NORTH COORDINATE: 52240.0 FT
 EAST COORDINATE: 45590.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: DAKOTA SANDSTONE (KD)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TOTAL DISSOLVED SOLIDS	08/16/83	0001	MG/L		9320.00		-	-
URANIUM	08/16/83	0001	MG/L		0.003		-	-
VANADIUM	08/16/83	0001	MG/L		0.12		-	-
ZINC	08/16/83	0001	MG/L		0.25		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0594
 NORTH COORDINATE: 31650.0 FT
 EAST COORDINATE: 72440.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	06/10/80	0001	MG/L CaCO3		101.00		-	-
	07/01/81	0001			99.20		-	-
ARSENIC	06/10/80	0001	MG/L		0.005		-	-
	07/01/81	0002			0.005		-	-
BARIUM	06/10/80	0001	MG/L		0.10		-	-
	07/01/81	0002			0.10		-	-
BICARBONATE - HCO3	06/10/80	0001	MG/L		246.00		-	-
	07/01/81	0002			242.00		-	-
CADMIUM	06/10/80	0001	MG/L		0.001		-	-
	07/01/81	0002			0.001		-	-
CALCIUM	06/10/80	0001	MG/L		57.20		-	-
	07/01/81	0002			60.20		-	-
CHLORIDE	06/10/80	0001	MG/L		15.00		-	-
	07/01/81	0002			18.00		-	-
LEAD	06/10/80	0001	MG/L		0.005		-	-
	07/01/81	0002			0.005		-	-
MAGNESIUM	06/10/80	0001	MG/L		10.70		-	-
	07/01/81	0002			7.60		-	-
MOLYBDENUM	06/10/80	0001	MG/L		0.159		-	-
	07/01/81	0002			0.155		-	-
PH	06/10/80	0001	SU		7.45		-	-
	07/01/81	0002			7.40		-	-
POTASSIUM	06/10/80	0001	MG/L		3.50		-	-
	07/01/81	0002			2.70		-	-
SELENIUM	06/10/80	0001	MG/L		0.022		-	-
	07/01/81	0002			0.028		-	-
SODIUM	06/10/80	0001	MG/L		142.60		-	-
	07/01/81	0002			144.90		-	-
SPECIFIC CONDUCTANCE	06/10/80	0001	UMHO/CM		968.00		-	-
SULFATE	06/10/80	0001	MG/L		259.00		-	-
	07/01/81	0002			265.00		-	-
TOTAL DISSOLVED SOLIDS	06/10/80	0001	MG/L		656.00		-	-
	07/01/81	0002			665.00		-	-
URANIUM	06/10/80	0001	MG/L		0.178		-	-
	07/01/81	0002			0.22		-	-
VANADIUM	06/10/80	0001	MG/L		0.01		-	-
	07/01/81	0002			0.10		-	-
ZINC	06/10/80	0001	MG/L		0.25		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)
 0002 - FILTERED REPLICATE SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0595
 NORTH COORDINATE: 30640.0 FT
 EAST COORDINATE: 67540.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PV1	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	07/01/81	0001	MG/L CaCO_3		108.00		-	-
ARSENIC	07/01/81	0001	MG/L		0.005		-	-
BARIUM	07/01/81	0001	MG/L		0.10		-	-
BICARBONATE - HCO_3	07/01/81	0001	MG/L		264.00		-	-
CADMIUM	07/01/81	0001	MG/L		0.001		-	-
CALCIUM	07/01/81	0001	MG/L		58.60		-	-
CHLORIDE	07/01/81	0001	MG/L		19.00		-	-
LEAD	07/01/81	0001	MG/L		0.005		-	-
MAGNESIUM	07/01/81	0001	MG/L		4.60		-	-
MOLYBDENUM	07/01/81	0001	MG/L		0.155		-	-
PH	07/01/81	0001	SU		7.50		-	-
POTASSIUM	07/01/81	0001	MG/L		2.30		-	-
SELENIUM	07/01/81	0001	MG/L		0.023		-	-
SODIUM	07/01/81	0001	MG/L		158.70		-	-
SPECIFIC CONDUCTANCE	07/01/81	0001	UMHO/CM		879.00		-	-
SULFATE	07/01/81	0001	MG/L		259.00		-	-
TEMPERATURE	07/01/81	0001	C - DEGREE		12.20		-	-
TOTAL DISSOLVED SOLIDS	07/01/81	0001	MG/L		668.00		-	-
URANIUM-234	07/01/81	0001	PCI/L		0.18		-	-
VANADIUM	07/01/81	0001	MG/L		0.01		-	-
ZINC	07/01/81	0001	MG/L		0.10		-	-

PARAMETER VALUE INDICATOR (PV1): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0596
 NORTH COORDINATE: 20790.0 FT
 EAST COORDINATE: 64530.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	01/26/82	0001	MG/L CAC03		155.00		-	-
ALUMINUM	01/26/82	0001	MG/L		0.25		-	-
ARSENIC	01/26/82	0001	MG/L		0.005		-	-
BARIUM	01/26/82	0001	MG/L		0.10		-	-
BICARBONATE - HCO3	01/26/82	0001	MG/L		377.00		-	-
CADMIUM	01/26/82	0001	MG/L		0.002		-	-
CALCIUM	01/26/82	0001	MG/L		73.60		-	-
CHLORIDE	01/26/82	0001	MG/L		20.00		-	-
FLUORIDE	01/26/82	0001	MG/L		1.15		-	-
IRON	01/26/82	0001	MG/L		0.10		-	-
LEAD	01/26/82	0001	MG/L		0.005		-	-
MAGNESIUM	01/26/82	0001	MG/L		19.50		-	-
MOLYBDENUM	01/26/82	0001	MG/L		0.01		-	-
PH	01/26/82	0001	SU		7.40		-	-
POTASSIUM	01/26/82	0001	MG/L		0.00		-	-
SELENIUM	01/26/82	0001	MG/L		0.005		-	-
SILICON	01/26/82	0001	MG/L		13.00		-	-
SODIUM	01/26/82	0001	MG/L		101.20		-	-
SPECIFIC CONDUCTANCE	01/26/82	0001	UMHO/CM		638.00		-	-
SULFATE	01/26/82	0001	MG/L		84.00		-	-
TEMPERATURE	01/26/82	0001	C - DEGREE		12.50		-	-
TOTAL DISSOLVED SOLIDS	01/26/82	0001	MG/L		505.00		-	-
URANIUM-234	01/26/82	0001	PCI/L		0.005		-	-
VANADIUM	01/26/82	0001	MG/L		0.01		-	-
ZINC	01/26/82	0001	MG/L		0.10		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0597
 NORTH COORDINATE: 19350.0 FT
 EAST COORDINATE: 65380.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	01/26/82	0001	MG/L CACO3		86.50		-	-
ALUMINUM	01/26/82	0001	MG/L		0.25		-	-
ARSENIC	01/26/82	0001	MG/L		0.007		-	-
BARIUM	01/26/82	0001	MG/L		0.15		-	-
BICARBONATE - HCO3	01/26/82	0001	MG/L		211.00		-	-
CADMIUM	01/26/82	0001	MG/L		0.001		-	-
CALCIUM	01/26/82	0001	MG/L		21.20		-	-
CHLORIDE	01/26/82	0001	MG/L		8.00		-	-
FLUORIDE	01/26/82	0001	MG/L		1.90		-	-
IRON	01/26/82	0001	MG/L		0.10		-	-
LEAD	01/26/82	0001	MG/L		0.005		-	-
MAGNESIUM	01/26/82	0001	MG/L		4.00		-	-
MOLYBDENUM	01/26/82	0001	MG/L		0.012		-	-
PH	01/26/82	0001	SU		7.80		-	-
POTASSIUM	01/26/82	0001	MG/L		2.30		-	-
SELENIUM	01/26/82	0001	MG/L		0.005		-	-
SILICON	01/26/82	0001	MG/L		22.90		-	-
SODIUM	01/26/82	0001	MG/L		126.50		-	-
SPECIFIC CONDUCTANCE	01/26/82	0001	UMHO/CM		628.00		-	-
SULFATE	01/26/82	0001	MG/L		31.00		-	-
TEMPERATURE	01/26/82	0001	C - DEGREE		12.20		-	-
TOTAL DISSOLVED SOLIDS	01/26/82	0001	MG/L		422.00		-	-
URANIUM-234	01/26/82	0001	PCI/L		0.005		-	-
VANADIUM	01/26/82	0001	MG/L		0.01		-	-
ZINC	01/26/82	0001	MG/L		0.10		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0609
 NORTH COORDINATE: 55335.0 FT
 EAST COORDINATE: 60670.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: ON-SITE (O)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	09/30/85	0001	MG/L CaCO3		462.		-	-
	09/30/85	0002			462.		-	-
	09/30/85	0003			462.		-	-
	09/30/85	0004			462.		-	-
	09/30/85	0005			462.		-	-
	05/13/86	0001			463.		-	-
	05/13/86	0002			463.		-	-
	05/13/86	0003			463.		-	-
	05/13/86	0004			463.		-	-
	05/13/86	0005			463.		-	-
ALUMINUM	09/30/85	0002	MG/L		0.3		0.1	-
	09/30/85	0003			0.3		0.1	-
	09/30/85	0004			0.2		0.1	-
	09/30/85	0005			0.3		0.1	-
AMMONIUM	09/30/85	0002	MG/L	<	0.1		0.1	-
	09/30/85	0003		<	0.1		0.1	-
	09/30/85	0004		<	0.1		0.1	-
	09/30/85	0005		<	0.1		0.1	-
ANTIMONY	09/30/85	0002	MG/L	<	0.003		0.003	-
	09/30/85	0003		<	0.003		0.003	-
	09/30/85	0004		<	0.003		0.003	-
	09/30/85	0005		<	0.003		0.003	-
ARSENIC	09/30/85	0001	MG/L	<	0.01		0.01	-
	09/30/85	0002		<	0.01		0.01	-
	09/30/85	0003		<	0.01		0.01	-
	09/30/85	0004		<	0.01		0.01	-
	09/30/85	0005		<	0.01		0.01	-
	05/13/86	0001		<	0.01		0.01	-
	05/13/86	0002		<	0.01		0.01	-
	05/13/86	0003		<	0.01		0.01	-
	05/13/86	0004		<	0.01		0.01	-
	05/13/86	0005		<	0.01		0.01	-
BARIUM	09/30/85	0002	MG/L		0.1		0.1	-
	09/30/85	0003			0.1		0.1	-
	09/30/85	0004			0.1		0.1	-
	09/30/85	0005			0.1		0.1	-
BORON	09/30/85	0002	MG/L		0.4		0.1	-
	09/30/85	0003			0.5		0.1	-
	09/30/85	0004			0.6		0.1	-
	09/30/85	0005			0.5		0.1	-
	05/13/86	0001			1.		0.1	-
	05/13/86	0002			1.		0.1	-
	05/13/86	0003			1.		0.1	-
	05/13/86	0004			1.		0.1	-
	05/13/86	0005			1.		0.1	-
	05/13/86	0005			1.		0.1	-
CADMIUM	09/30/85	0002	MG/L	<	0.001		0.001	-
	09/30/85	0003		<	0.001		0.001	-
	09/30/85	0004		<	0.001		0.001	-
	09/30/85	0005		<	0.001		0.001	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)
 0002 - FILTERED REPLICATE SAMPLE (.45 MICRONS)
 0003 - FILTERED REPLICATE SAMPLE (.45 MICRONS)
 0004 - FILTERED REPLICATE SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0609
 NORTH COORDINATE: 55335.0 FT
 EAST COORDINATE: 60670.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: ON-SITE (O)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CADMIUM	05/13/86	0001	MG/L	<	0.001		0.001	-
	05/13/86	0002		<	0.001		0.001	-
	05/13/86	0003		<	0.001		0.001	-
	05/13/86	0004		<	0.001		0.001	-
	05/13/86	0005		<	0.001		0.001	-
CALCIUM	09/30/85	0001	MG/L		562.		0.01	-
	09/30/85	0002			610.		0.01	-
	09/30/85	0003			536.		0.01	-
	09/30/85	0004			540.		0.01	-
	09/30/85	0005			492.		0.01	-
	05/13/86	0001			566.		0.01	-
	05/13/86	0002			566.		0.01	-
	05/13/86	0003			566.		0.01	-
	05/13/86	0004			566.		0.01	-
	05/13/86	0005			566.		0.01	-
CHLORIDE	09/30/85	0001	MG/L		148.		1.	-
	09/30/85	0002			150.		1.	-
	09/30/85	0003			150.		1.	-
	09/30/85	0004			150.		1.	-
	09/30/85	0005			150.		1.	-
	05/13/86	0001			160.		1.	-
	05/13/86	0002			160.		1.	-
	05/13/86	0003			160.		1.	-
	05/13/86	0004			160.		1.	-
	05/13/86	0005			160.		1.	-
CHROMIUM	09/30/85	0002	MG/L		0.04		0.01	-
	09/30/85	0003			0.03		0.01	-
	09/30/85	0004			0.05		0.01	-
	09/30/85	0005			0.04		0.01	-
	05/13/86	0001			0.2		0.01	-
	05/13/86	0002			0.02		0.01	-
	05/13/86	0003			0.02		0.01	-
	05/13/86	0004			0.02		0.01	-
	05/13/86	0005			0.02		0.01	-
COBALT	09/30/85	0002	MG/L		0.07		0.05	-
	09/30/85	0003			0.06		0.05	-
	09/30/85	0004			0.07		0.05	-
	09/30/85	0005			0.09		0.05	-
	05/13/86	0001			0.09		0.05	-
	05/13/86	0002			0.09		0.05	-
	05/13/86	0003			0.09		0.05	-
	05/13/86	0004			0.09		0.05	-
	05/13/86	0005			0.09		0.05	-
COPPER	09/30/85	0002	MG/L		0.03		0.02	-
	09/30/85	0003			0.05		0.02	-
	09/30/85	0004			0.04		0.02	-
	09/30/85	0005			0.04		0.02	-
CYANIDE	09/30/85	0002	MG/L	<	0.01		0.01	-
	09/30/85	0003		<	0.01		0.01	-
	09/30/85	0004		<	0.01		0.01	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:

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 0004 - FILTERED REPLICATE SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0609
 NORTH COORDINATE: 55335.0 FT
 EAST COORDINATE: 60670.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: ON-SITE (O)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CYANIDE	09/30/85	0005	MG/L	<	0.01		0.01	-
FLUORIDE	09/30/85	0002	MG/L		0.5		0.1	-
	09/30/85	0003			0.4		0.1	-
	09/30/85	0004			0.4		0.1	-
	09/30/85	0005			0.6		0.1	-
	05/13/86	0001			0.4		0.1	-
	05/13/86	0002			0.3		0.1	-
	05/13/86	0003			0.3		0.1	-
	05/13/86	0004			0.3		0.1	-
	05/13/86	0005			0.3		0.1	-
IRON	09/30/85	0002	MG/L	<	0.03		0.03	-
	09/30/85	0003		<	0.03		0.03	-
	09/30/85	0004			0.04		0.03	-
	09/30/85	0005		<	0.03		0.03	-
	05/13/86	0001			0.05		0.03	-
	05/13/86	0002			0.05		0.03	-
	05/13/86	0003			0.05		0.03	-
	05/13/86	0004			0.05		0.03	-
	05/13/86	0005			0.05		0.03	-
LEAD	09/30/85	0002	MG/L	<	0.01		0.01	-
	09/30/85	0003		<	0.01		0.01	-
	09/30/85	0004		<	0.01		0.01	-
	09/30/85	0005		<	0.01		0.01	-
LEAD-210	09/30/85	0002	PCI/L		3.2		1.5	2.5
	09/30/85	0003			2.9		1.5	2.4
	09/30/85	0004			2.6		1.5	2.7
	09/30/85	0005			2.7		1.5	2.8
MAGNESIUM	09/30/85	0001	MG/L		156.		0.001	-
	09/30/85	0002			142.		0.001	-
	09/30/85	0003			157.		0.001	-
	09/30/85	0004			160.		0.001	-
	09/30/85	0005			164.		0.001	-
	05/13/86	0001			149.		0.001	-
	05/13/86	0002			149.		0.001	-
	05/13/86	0003			149.		0.001	-
	05/13/86	0004			150.		0.001	-
	05/13/86	0005			149.		0.001	-
MANGANESE	09/30/85	0002	MG/L		0.47		0.01	-
	09/30/85	0003			0.48		0.01	-
	09/30/85	0004			0.52		0.01	-
	09/30/85	0005			0.49		0.01	-
	05/13/86	0001			0.68		0.01	-
	05/13/86	0002			0.68		0.01	-
	05/13/86	0003			0.68		0.01	-
	05/13/86	0004			0.68		0.01	-
	05/13/86	0005			0.68		0.01	-
MERCURY	09/30/85	0002	MG/L	<	0.0002		0.0002	-
	09/30/85	0003		<	0.0002		0.0002	-
	09/30/85	0004		<	0.0002		0.0002	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

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GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0609
 NORTH COORDINATE: 55335.0 FT
 EAST COORDINATE: 60670.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: ON-SITE (O)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
MERCURY	09/30/85	0005	MG/L	<	0.0002		0.0002	-
MOLYBDENUM	09/30/85	0001	MG/L		1.41		0.01	-
	09/30/85	0002			1.47		0.01	-
	09/30/85	0003			1.59		0.01	-
	09/30/85	0004			1.47		0.01	-
	09/30/85	0005			1.47		0.01	-
	05/13/86	0001			1.41		0.01	-
	05/13/86	0002			1.39		0.01	-
	05/13/86	0003			1.4		0.01	-
	05/13/86	0004			1.41		0.01	-
	05/13/86	0005			1.43		0.01	-
NICKEL	09/30/85	0002	MG/L		0.09		0.04	-
	09/30/85	0003			0.1		0.04	-
	09/30/85	0004			0.09		0.04	-
	09/30/85	0005			0.1		0.04	-
NITRATE	09/30/85	0002	MG/L		3.		1.	-
	09/30/85	0003			3.		1.	-
	09/30/85	0004			3.		1.	-
	09/30/85	0005			4.		1.	-
	05/13/86	0001		<	1.		1.	-
	05/13/86	0002		<	1.		1.	-
	05/13/86	0003		<	1.		1.	-
	05/13/86	0004		<	1.		1.	-
	05/13/86	0005		<	1.		1.	-
NITRITE	09/30/85	0002	MG/L	<	0.1		0.1	-
	09/30/85	0003		<	0.1		0.1	-
	09/30/85	0004		<	0.1		0.1	-
	09/30/85	0005		<	0.1		0.1	-
PH	09/30/85	0001	SU		7.11		-	-
	09/30/85	0002			7.11		-	-
	09/30/85	0003			7.11		-	-
	09/30/85	0004			7.11		-	-
	09/30/85	0005			7.11		-	-
	05/13/86	0001			6.87		-	-
	05/13/86	0002			6.87		-	-
	05/13/86	0003			6.87		-	-
	05/13/86	0004			6.87		-	-
	05/13/86	0005			6.87		-	-
PHOSPHATE	09/30/85	0002	MG/L		0.4		0.1	-
	09/30/85	0003			0.4		0.1	-
	09/30/85	0004			0.4		0.1	-
	09/30/85	0005			0.5		0.1	-
POTASSIUM	09/30/85	0001	MG/L		1.06		0.01	-
	09/30/85	0002			1.14		0.01	-
	09/30/85	0003			1.38		0.01	-
	09/30/85	0004			1.11		0.01	-
	09/30/85	0005			1.1		0.01	-
	05/13/86	0001			0.83		0.01	-
	05/13/86	0002			0.83		0.01	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

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GROUNDWATER QUALITY DATA BY LOCATION
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 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: ON-SITE (O)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
POTASSIUM	05/13/86	0003	MG/L		0.83		0.01	-
	05/13/86	0004			0.83		0.01	-
	05/13/86	0005			0.83		0.01	-
RADIUM-226	09/30/85	0002	PCI/L		410.		1.	20.
	09/30/85	0003			11.		1.	3.
	09/30/85	0004			8.3		1.	2.9
	09/30/85	0005			7.9		1.	3.2
RADIUM-226 + RADIUM-228	09/30/85	0002	PCI/L		410.00		-	-
	09/30/85	0003			11.20		-	-
	09/30/85	0004			8.60		-	-
	09/30/85	0005			8.10		-	-
RADIUM-228	09/30/85	0002	PCI/L		0.		1.	4.
	09/30/85	0003			0.2		1.	4.5
	09/30/85	0004			0.3		1.	5.
	09/30/85	0005			0.2		1.	3.
SELENIUM	09/30/85	0001	MG/L		0.147		0.005	-
	09/30/85	0002			0.01		0.005	-
	09/30/85	0003			0.01		0.005	-
	09/30/85	0004			0.014		0.005	-
	09/30/85	0005			0.013		0.005	-
	05/13/86	0001			0.009		0.005	-
	05/13/86	0002			0.009		0.005	-
	05/13/86	0003			0.009		0.005	-
	05/13/86	0004			0.009		0.005	-
	05/13/86	0005			0.009		0.005	-
SILICA - SiO2	09/30/85	0002	MG/L		11.		2.	-
	09/30/85	0003			11.		2.	-
	09/30/85	0004			10.		2.	-
	09/30/85	0005			12.		2.	-
SILVER	09/30/85	0002	MG/L	<	0.01		0.01	-
	09/30/85	0003		<	0.01		0.01	-
	09/30/85	0004		<	0.01		0.01	-
	09/30/85	0005		<	0.01		0.01	-
SODIUM	09/30/85	0001	MG/L		520.		0.002	-
	09/30/85	0002			470.		0.002	-
	09/30/85	0003			538.		0.002	-
	09/30/85	0004			527.		0.002	-
	09/30/85	0005			576.		0.002	-
	05/13/86	0001			590.		0.002	-
	05/13/86	0002			590.		0.002	-
	05/13/86	0003			590.		0.002	-
	05/13/86	0004			590.		0.002	-
	05/13/86	0005			590.		0.002	-
SPECIFIC CONDUCTANCE	09/30/85	0001	UMHO/CM		3200.		-	-
	09/30/85	0002			3200.		-	-
	09/30/85	0003			3200.		-	-
	09/30/85	0004			3200.		-	-
	09/30/85	0005			3200.		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

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GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0609
 NORTH COORDINATE: 55335.0 FT
 EAST COORDINATE: 60670.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: ON-SITE (O)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SPECIFIC CONDUCTANCE	05/13/86	0001	UMHO/CM		3450.		-	-
	05/13/86	0002			3450.		-	-
	05/13/86	0003			3450.		-	-
	05/13/86	0004			3450.		-	-
	05/13/86	0005			3450.		-	-
STRONTIUM	09/30/85	0002	MG/L		9.8		0.1	-
	09/30/85	0003			10.		0.1	-
	09/30/85	0004			12.		0.1	-
	09/30/85	0005			12.		0.1	-
	05/13/86	0001			0.8		0.1	-
	05/13/86	0002			0.8		0.1	-
	05/13/86	0003			0.8		0.1	-
	05/13/86	0004			0.8		0.1	-
	05/13/86	0005			0.8		0.1	-
	05/13/86	0005			0.8		0.1	-
SULFATE	09/30/85	0001	MG/L		2420.		0.1	-
	09/30/85	0002			2400.		0.1	-
	09/30/85	0003			2400.		0.1	-
	09/30/85	0004			2400.		0.1	-
	09/30/85	0005			2390.		0.1	-
	05/13/86	0001			2540.		0.1	-
	05/13/86	0002			2530.		0.1	-
	05/13/86	0003			2520.		0.1	-
	05/13/86	0004			2540.		0.1	-
	05/13/86	0005			2530.		0.1	-
SULFIDE	09/30/85	0002	MG/L	<	0.1		0.1	-
	09/30/85	0003		<	0.1		0.1	-
	09/30/85	0004		<	0.1		0.1	-
	09/30/85	0005		<	0.1		0.1	-
TEMPERATURE	09/30/85	0001	C - DEGREE		12.		-	-
	09/30/85	0002			12.		-	-
	09/30/85	0003			12.		-	-
	09/30/85	0004			12.		-	-
	09/30/85	0005			12.		-	-
	05/13/86	0001			16.		-	-
	05/13/86	0002			16.		-	-
	05/13/86	0003			16.		-	-
	05/13/86	0004			16.		-	-
	05/13/86	0005			16.		-	-
THORIUM-230	09/30/85	0002	PCI/L		1.4		1.	1.1
	09/30/85	0003			0.9		1.	0.9
	09/30/85	0004			0.9		1.	0.9
	09/30/85	0005			0.5		1.	0.8
TIN	09/30/85	0002	MG/L	<	0.005		0.005	-
	09/30/85	0003		<	0.005		0.005	-
	09/30/85	0004		<	0.005		0.005	-
	09/30/85	0005		<	0.005		0.005	-
TOTAL DISSOLVED SOLIDS	09/30/85	0001	MG/L		4310.		10.	-
	09/30/85	0002			4370.		10.	-
	09/30/85	0003			4330.		10.	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

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GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0609
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 EAST COORDINATE: 60670.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: ON-SITE (O)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TOTAL DISSOLVED SOLIDS	09/30/85	0004	MG/L		4350.		10.	-
	09/30/85	0005			4360.		10.	-
	05/13/86	0001			4360.		10.	-
	05/13/86	0002			4390.		10.	-
	05/13/86	0003			4540.		10.	-
	05/13/86	0004			4370.		10.	-
	05/13/86	0005			4390.		10.	-
URANIUM	09/30/85	0001	MG/L		0.0807		0.003	-
	09/30/85	0002			0.102		0.003	-
	09/30/85	0003			0.0991		0.003	-
	09/30/85	0004			0.0848		0.003	-
	09/30/85	0005			0.0885		0.003	-
	05/13/86	0001			0.0537		0.003	-
	05/13/86	0002			0.0534		0.003	-
	05/13/86	0003			0.0517		0.003	-
	05/13/86	0004			0.05		0.003	-
	05/13/86	0005			0.0506		0.003	-
VANADIUM	09/30/85	0002	MG/L	<	0.01		0.01	-
	09/30/85	0003		<	0.01		0.01	-
	09/30/85	0004		<	0.01		0.01	-
	09/30/85	0005		<	0.01		0.01	-
	05/13/86	0001			0.41		0.01	-
	05/13/86	0002			0.41		0.01	-
	05/13/86	0003			0.4		0.01	-
	05/13/86	0004			0.4		0.01	-
	05/13/86	0005			0.42		0.01	-
ZINC	09/30/85	0002	MG/L		0.069		0.005	-
	09/30/85	0003			0.063		0.005	-
	09/30/85	0004			0.075		0.005	-
	09/30/85	0005			0.066		0.005	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

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GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0619
 NORTH COORDINATE: 50910.0 FT
 EAST COORDINATE: 64040.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: CROSS GRADIENT (C)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	10/02/85	0001	MG/L CaCO_3		597.		-	-
ARSENIC	10/02/85	0001	MG/L	<	0.01		0.01	-
CALCIUM	10/02/85	0001	MG/L		380.		0.01	-
CHLORIDE	10/02/85	0001	MG/L		165.		1.	-
MAGNESIUM	10/02/85	0001	MG/L		110.		0.001	-
MOLYBDENUM	10/02/85	0001	MG/L		0.22		0.01	-
PH	10/02/85	0001	SU		7.01		-	-
POTASSIUM	10/02/85	0001	MG/L		5.38		0.01	-
SELENIUM	10/02/85	0001	MG/L		0.033		0.005	-
SODIUM	10/02/85	0001	MG/L		555.		0.002	-
SPECIFIC CONDUCTANCE	10/02/85	0001	UMHO/CM		2600.		-	-
SULFATE	10/02/85	0001	MG/L		1770.		0.1	-
TEMPERATURE	10/02/85	0001	C - DEGREE		12.		-	-
TOTAL DISSOLVED SOLIDS	10/02/85	0001	MG/L		3200.		10.	-
URANIUM	10/02/85	0001	MG/L		0.95		0.003	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0620
 NORTH COORDINATE: 52040.0 FT
 EAST COORDINATE: 60740.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: CROSS GRADIENT (C)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	10/02/85	0001	MG/L CACO3		294.		-	-
	01/09/87	0001			294.		-	-
	07/15/88	0001			299.		-	-
	01/12/89	0001			278.		-	-
	09/14/89	0001			274.		-	-
	03/31/90	0001			299.		-	-
	01/09/91	0001			277.		-	-
ALUMINUM	10/02/85	0001	MG/L		0.4		0.1	-
	07/15/88	0001			0.3		0.1	-
	01/12/89	0001		<	0.05	J	0.1	-
	09/14/89	0001			0.1		0.1	-
	03/31/90	0001		<	0.1		0.1	-
	01/09/91	0001		<	0.05		0.05	-
AMMONIUM	10/02/85	0001	MG/L	<	0.1		0.1	-
	07/15/88	0001		<	0.1		0.1	-
	01/12/89	0001			0.10		0.1	-
	09/14/89	0001		<	0.1		0.1	-
	03/31/90	0001		<	0.1		0.1	-
	01/09/91	0001			0.08		0.01	-
ANTIMONY	10/02/85	0001	MG/L	<	0.003		0.003	-
	07/15/88	0001			0.013		0.003	-
	01/12/89	0001			0.003		0.003	-
	09/14/89	0001		<	0.003		0.003	-
	03/31/90	0001			0.021		0.003	-
	01/09/91	0001		<	0.003		0.003	-
ARSENIC	10/02/85	0001	MG/L	<	0.01		0.01	-
	01/09/87	0001			0.003	J	0.01	-
	07/15/88	0001			0.01		0.01	-
	01/12/89	0001		<	0.001	J	0.01	-
	09/14/89	0001			0.01		0.01	-
	03/31/90	0001		<	0.01		0.01	-
	01/09/91	0001		<	0.03	I	0.03	-
BARIUM	10/02/85	0001	MG/L		0.1		0.1	-
	07/15/88	0001		<	0.1		0.1	-
	01/12/89	0001			0.01	J	0.1	-
	09/14/89	0001		<	0.1		0.1	-
	03/31/90	0001		<	0.1		0.1	-
	01/09/91	0001		<	0.01		0.01	-
BERYLLIUM	01/12/89	0001	MG/L	<	0.005		0.005	-
	09/14/89	0001		<	0.01		0.01	-
	03/31/90	0001		<	0.01		0.01	-
	01/09/91	0001		<	0.005		0.005	-
BORON	10/02/85	0001	MG/L		0.4		0.1	-
	01/09/87	0001			0.35		0.1	-
	07/15/88	0001			0.3		0.1	-
	01/12/89	0001			0.37		0.1	-
	09/14/89	0001			0.4		0.1	-
	03/31/90	0001			0.3		0.1	-
	01/09/91	0001			0.35		0.05	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:

I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0620
 NORTH COORDINATE: 52040.0 FT
 EAST COORDINATE: 60740.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: CROSS GRADIENT (C)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
BROMIDE	07/15/88	0001	MG/L		0.1		0.1	-
	01/12/89	0001			0.42		0.01	-
	09/14/89	0001			0.12		0.1	-
	03/31/90	0001			0.2		0.1	-
	01/09/91	0001			0.4		0.1	-
CADMIUM	10/02/85	0001	MG/L	<	0.001		0.001	-
	07/15/88	0001		<	0.001		0.001	-
	01/12/89	0001		<	0.0001	J	0.001	-
	09/14/89	0001		<	0.001		0.001	-
	03/31/90	0001		<	0.001		0.001	-
	01/09/91	0001		<	0.001		0.001	-
CALCIUM	10/02/85	0001	MG/L		533.		0.01	-
	01/09/87	0001			475.		0.01	-
	07/15/88	0001			482.		0.01	-
	01/12/89	0001			503.		0.01	-
	09/14/89	0001			479.		0.01	-
	03/31/90	0001			481.		0.01	-
	01/09/91	0001			535.		0.01	-
CHLORIDE	10/02/85	0001	MG/L		36.		1.	-
	01/09/87	0001			43.		1.	-
	07/15/88	0001			48.		1.	-
	01/12/89	0001			43.		1.	-
	09/14/89	0001			54.		1.	-
	03/31/90	0001			58.		1.	-
	01/09/91	0001			65.		0.5	-
CHROMIUM	10/02/85	0001	MG/L		0.04		0.01	-
	01/09/87	0001			0.02		0.01	-
	07/15/88	0001			0.16		0.01	-
	01/12/89	0001		<	0.01		0.01	-
	09/14/89	0001		<	0.01		0.01	-
	03/31/90	0001		<	0.01		0.01	-
	01/09/91	0001		<	0.01		0.01	-
COBALT	10/02/85	0001	MG/L		0.06		0.05	-
	01/09/87	0001			0.05		0.05	-
	07/15/88	0001		<	0.05		0.05	-
	01/12/89	0001		<	0.01	J	0.05	-
	09/14/89	0001		<	0.05		0.05	-
	03/31/90	0001		<	0.05		0.05	-
	01/09/91	0001		<	0.03		0.03	-
COPPER	10/02/85	0001	MG/L		0.03		0.02	-
	01/09/87	0001			0.01	J	0.02	-
	07/15/88	0001			0.03		0.02	-
	01/12/89	0001		<	0.01	J	0.02	-
	09/14/89	0001		<	0.02		0.02	-
	03/31/90	0001		<	0.02		0.02	-
	01/09/91	0001		<	0.01		0.01	-
CYANIDE	10/02/85	0001	MG/L	<	0.01		0.01	-
	01/12/89	0001		<	0.002	J	0.01	-
	09/14/89	0001		<	0.01		0.01	-
	03/31/90	0001		<	0.01		0.01	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
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GROUNDWATER QUALITY DATA BY LOCATION
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 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: CROSS GRADIENT (C)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CYANIDE	01/09/91	0001	MG/L	<	0.01		0.01	-
FLUORIDE	10/02/85	0001	MG/L		0.8		0.1	-
	01/09/87	0001			0.51		0.1	-
	07/15/88	0001			0.4		0.1	-
	01/12/89	0001			0.6		0.1	-
	09/14/89	0001			0.5		0.1	-
	03/31/90	0001			0.4		0.1	-
	01/09/91	0001			0.5		0.1	-
GROSS ALPHA	01/09/87	0001	PCI/L		5300.		0.2	200.
	07/15/88	0001			5200.		0.2	200.
	01/12/89	0001			852.	J	1.	71.4
	09/14/89	0001			3200.		1.	100.
	03/31/90	0001			3000.		1.	100.
	01/09/91	0001			2178.		1.	121.
GROSS BETA	01/09/87	0001	PCI/L		2200.		1.	100.
	07/15/88	0001			1510.		1.	40.
	01/12/89	0001			1130.		0.5	5.91
	09/14/89	0001			1390.		0.5	40.
	03/31/90	0001			1500.		0.5	100.
	01/09/91	0001			1025.		0.5	44.1
IRON	10/02/85	0001	MG/L	<	0.03		0.03	-
	01/09/87	0001			0.97		0.03	-
	07/15/88	0001			0.09		0.03	-
	01/12/89	0001		<	0.02	J	0.03	-
	09/14/89	0001			0.09		0.03	-
	03/31/90	0001			0.10		0.03	-
	01/09/91	0001		<	0.03		0.03	-
LEAD	10/02/85	0001	MG/L	<	0.01		0.01	-
	07/15/88	0001		<	0.01		0.01	-
	01/12/89	0001			0.001	J	0.01	-
	09/14/89	0001			0.02		0.01	-
	03/31/90	0001		<	0.01		0.01	-
	01/09/91	0001		<	0.03	I	0.03	-
LEAD-210	10/02/85	0001	PCI/L		102.		1.5	4.
	07/15/88	0001			0.7		1.5	0.9
	01/12/89	0001			0.00		1.5	6.39
	09/14/89	0001			0.0		1.5	0.7
MAGNESIUM	10/02/85	0001	MG/L		142.		0.001	-
	01/09/87	0001			145.		0.001	-
	07/15/88	0001			131.		0.001	-
	01/12/89	0001			130.		0.001	-
	09/14/89	0001			131.		0.001	-
	03/31/90	0001			131.		0.001	-
	01/09/91	0001			135.		0.5	-
MANGANESE	10/02/85	0001	MG/L		0.02		0.01	-
	01/09/87	0001			0.07		0.01	-
	07/15/88	0001			0.03		0.01	-
	01/12/89	0001		<	0.01		0.01	-

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FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: CROSS GRADIENT (C)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
MANGANESE	09/14/89	0001	MG/L		0.03		0.01	-
	03/31/90	0001			0.02		0.01	-
	01/09/91	0001			0.02		0.01	-
MERCURY	10/02/85	0001	MG/L	<	0.0002		0.0002	-
	07/15/88	0001		<	0.0002		0.0002	-
	01/12/89	0001		<	0.0001	J	0.0002	-
	09/14/89	0001		<	0.0002		0.0002	-
	03/31/90	0001		<	0.0002		0.0002	-
	01/09/91	0001		<	0.0002		0.0002	-
MOLYBDENUM	10/02/85	0001	MG/L		0.5		0.01	-
	01/09/87	0001		<	0.1		0.1	-
	07/15/88	0001			0.12		0.01	-
	01/12/89	0001			0.076		0.01	-
	09/14/89	0001			0.11		0.01	-
	03/31/90	0001			0.11		0.01	-
	01/09/91	0001			0.07		0.01	-
NET GROSS ALPHA *	01/09/87	0001	PCI/L		-338.92		-	-
	07/15/88	0001			809.60		-	-
	01/12/89	0001			-3038.99		-	-
	09/14/89	0001			346.24		-	-
	03/31/90	0001			269.72		-	-
	01/09/91	0001			-847.26		-	-
NICKEL	10/02/85	0001	MG/L		0.06		0.04	-
	07/15/88	0001			0.04		0.04	-
	01/12/89	0001		<	0.02	J	0.04	-
	09/14/89	0001		<	0.04		0.04	-
	03/31/90	0001		<	0.04		0.04	-
	01/09/91	0001		<	0.04		0.04	-
NITRATE	10/02/85	0001	MG/L		3.		1.	-
	01/09/87	0001			7.5		1.	-
	07/15/88	0001			12.		1.	-
	01/12/89	0001			12.1		1.	-
	09/14/89	0001			3.8		1.	-
	03/31/90	0001			5.7		1.	-
	01/09/91	0001			8.0	J	0.1	-
NITRITE	10/02/85	0001	MG/L	<	0.1		0.1	-
NITRITE AND NITRATE	03/31/90	0001	MG/L		1.3		1.	-
	01/09/91	0001			1.79		0.05	-
PH	10/02/85	0001	SU		7.22		-	-
	01/09/87	0001			7.59		-	-
	07/15/88	0001			7.08		-	-
	01/12/89	0001			7.2		-	-
	09/14/89	0001			7.30		-	-
	03/31/90	0001			7.15		-	-
	01/09/91	0001			7.39		-	-
PHOSPHATE	10/02/85	0001	MG/L		0.6		0.1	-

* NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:

0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:

J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0620
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 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: CROSS GRADIENT (C)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
PHOSPHATE	07/15/88	0001	MG/L	<	0.1		0.1	-
	01/12/89	0001		<	0.1		0.1	-
	09/14/89	0001		<	0.1		0.1	-
	03/31/90	0001		<	0.1		0.1	-
	01/09/91	0001			0.12		0.05	-
POLONIUM-210	10/02/85	0001	PCI/L		1.9		1.	0.9
	07/15/88	0001			0.7		1.	0.5
	01/12/89	0001			0.311	J	1.	1.22
	09/14/89	0001			1.7		1.	0.5
POTASSIUM	10/02/85	0001	MG/L		1.12		0.01	-
	01/09/87	0001			0.86		0.01	-
	07/15/88	0001			0.92		0.01	-
	01/12/89	0001			1.3		0.01	-
	09/14/89	0001			1.0		0.01	-
	03/31/90	0001			1.5		0.01	-
	01/09/91	0001			0.84		0.01	-
RADIUM-226	10/02/85	0001	PCI/L		2.9		1.	0.6
	01/09/87	0001			0.2		1.	0.3
	07/15/88	0001			0.1		1.	0.2
	01/12/89	0001			9.13		1.	1.03
	09/14/89	0001			0.0		1.	0.1
	03/31/90	0001			0.0		1.	0.1
	01/09/91	0001			0.7		1.	0.4
RADIUM-226 + RADIUM-228	10/02/85	0001	PCI/L		3.80		-	-
	01/09/87	0001			0.20		-	-
	07/15/88	0001			0.40		-	-
	01/12/89	0001			9.13		-	-
	09/14/89	0001			0.50		-	-
	03/31/90	0001			1.00		-	-
	01/09/91	0001			3.00		-	-
RADIUM-228	10/02/85	0001	PCI/L		0.9		1.	1.1
	01/09/87	0001			0.0		1.	1.1
	07/15/88	0001			0.3		1.	0.9
	01/12/89	0001			0.00		1.	6.32
	09/14/89	0001			0.5		1.	0.8
	03/31/90	0001			1.0		1.	0.8
	01/09/91	0001			2.3		1.	1.6
SELENIUM	10/02/85	0001	MG/L		0.011		0.005	-
	01/09/87	0001			0.008		0.005	-
	07/15/88	0001			0.058		0.005	-
	01/12/89	0001			0.070		0.005	-
	09/14/89	0001			0.040		0.005	-
	03/31/90	0001			0.024		0.005	-
	01/09/91	0001			0.035		0.005	-
SILICA - SiO2	10/02/85	0001	MG/L		11.		2.	-
	07/15/88	0001			13.9		2.	-
	01/12/89	0001			12.0		2.	-
	09/14/89	0001			14.		2.	-
	03/31/90	0001			15.		2.	-
	01/09/91	0001			13.1		0.1	-

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PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SILVER	10/02/85	0001	MG/L	<	0.01		0.01	-
	01/09/87	0001		<	0.01		0.01	-
	07/15/88	0001			0.04		0.01	-
	01/12/89	0001		<	0.01		0.01	-
	09/14/89	0001			0.01		0.01	-
	03/31/90	0001		<	0.01		0.01	-
	01/09/91	0001		<	0.01		0.01	-
SODIUM	10/02/85	0001	MG/L		434.		0.002	-
	01/09/87	0001			439.		0.002	-
	07/15/88	0001			366.		0.002	-
	01/12/89	0001			440.		0.002	-
	09/14/89	0001			415.		0.002	-
	03/31/90	0001			421.		0.002	-
	01/09/91	0001			435		5.	-
SPECIFIC CONDUCTANCE	10/02/85	0001	UMHO/CM		3100.		-	-
	01/09/87	0001			2850.		-	-
	07/15/88	0001			2750.		-	-
	01/12/89	0001			2600.		-	-
	09/14/89	0001			1300.		-	-
	03/31/90	0001			2700.		-	-
	01/09/91	0001			2800.		-	-
STRONTIUM	10/02/85	0001	MG/L		8.4		0.1	-
	07/15/88	0001			6.2		0.1	-
	01/12/89	0001			7.40		0.1	-
	09/14/89	0001			6.9		0.1	-
	03/31/90	0001			6.86		0.1	-
	01/09/91	0001			7.15		0.01	-
SULFATE	10/02/85	0001	MG/L		2440.		0.1	-
	01/09/87	0001			2310.		0.1	-
	07/15/88	0001			2100.		0.1	-
	01/12/89	0001			2354.		0.1	-
	09/14/89	0001			2370.		0.1	-
	03/31/90	0001			2380.		0.1	-
	01/09/91	0001			2380.		10.	-
SULFIDE	10/02/85	0001	MG/L	<	0.1		0.1	-
	07/15/88	0001		<	0.1		0.1	-
	01/12/89	0001		<	0.01	J	0.1	-
	09/14/89	0001		<	0.1		0.1	-
	03/31/90	0001		<	0.1		0.1	-
	01/09/91	0001		<	0.1	J	0.1	-
TEMPERATURE	10/02/85	0001	C - DEGREE		12.		-	-
	01/09/87	0001			12.		-	-
	07/15/88	0001			13.		-	-
	01/12/89	0001			11.0		-	-
	09/14/89	0001			13.0		-	-
	03/31/90	0001			12.		-	-
	01/09/91	0001			12.5		-	-
THALLIUM	01/12/89	0001	MG/L	<	0.005	I	0.005	-
	09/14/89	0001		<	0.01		0.01	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:

I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0620
 NORTH COORDINATE: 52040.0 FT
 EAST COORDINATE: 60740.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: CROSS GRADIENT (C)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
THALLIUM	03/31/90	0001	MG/L	<	0.01		0.01	-
	01/09/91	0001		<	0.03	I	0.03	-
THORIUM-230	10/02/85	0001	PCI/L		4.		1.	1.2
	07/15/88	0001			0.2		1.	0.4
	01/12/89	0001			5.14		1.	0.660
	09/14/89	0001			0.1		1.	0.4
TIN	10/02/85	0001	MG/L	<	0.005		0.005	-
	07/15/88	0001			0.010		0.005	-
	01/12/89	0001		<	0.001	J	0.005	-
	09/14/89	0001		<	0.1		0.1	-
	03/31/90	0001		<	0.005		0.005	-
	01/09/91	0001		<	0.03	I	0.03	-
TOTAL DISSOLVED SOLIDS	10/02/85	0001	MG/L		4060.		10.	-
	01/09/87	0001			4000.		10.	-
	07/15/88	0001			3940.		10.	-
	01/12/89	0001			3782.		10.	-
	09/14/89	0001			3680.		10.	-
	03/31/90	0001			3550.		10.	-
	01/09/91	0001			3860.		10.	-
TOTAL KJELDAHL NITROGEN	01/09/91	0001	MG/L		2.		1.	-
TOTAL ORGANIC CARBON	10/02/85	0001	MG/L		63.		1.	-
	07/15/88	0001			78.6		1.	-
	01/12/89	0001			15.		1.	-
	09/14/89	0001			79.1		1.	-
	03/31/90	0001			5.2		1.	-
	01/09/91	0001			4.	J	1.	-
URANIUM	10/02/85	0001	MG/L		5.34		0.003	-
	01/09/87	0001			8.22		0.003	-
	07/15/88	0001			6.40		0.003	-
	01/12/89	0001			5.672		0.003	-
	09/14/89	0001			4.16		0.003	-
	03/31/90	0001			3.98		0.003	-
	01/09/91	0001			4.41		0.001	-
VANADIUM	10/02/85	0001	MG/L	<	0.01		0.01	-
	01/09/87	0001		<	0.01		0.01	-
	07/15/88	0001			0.07		0.01	-
	01/12/89	0001		<	0.01		0.01	-
	09/14/89	0001		<	0.01		0.01	-
	03/31/90	0001		<	0.01		0.01	-
	01/09/91	0001		<	0.01		0.01	-
ZINC	10/02/85	0001	MG/L		0.017		0.005	-
	07/15/88	0001			0.011		0.005	-
	01/12/89	0001		<	0.01		0.01	-
	09/14/89	0001		<	0.005		0.005	-
	03/31/90	0001		<	0.005		0.005	-
	01/09/91	0001		<	0.005		0.005	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
 I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0650
 NORTH COORDINATE: 49990.0 FT
 EAST COORDINATE: 51010.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	05/22/86	0001	MG/L CaCO3		260.		-	-
	05/22/86	0002			260.		-	-
	05/22/86	0003			260.		-	-
	05/22/86	0004			260.		-	-
	05/22/86	0005			260.		-	-
	01/09/87	0001			283.		-	-
ARSENIC	05/22/86	0001	MG/L	<	0.01		0.01	-
	05/22/86	0002		<	0.01		0.01	-
	05/22/86	0003		<	0.01		0.01	-
	05/22/86	0004		<	0.01		0.01	-
	05/22/86	0005		<	0.01		0.01	-
	01/09/87	0001			0.003	J	0.01	-
BORON	05/22/86	0001	MG/L		0.5		0.1	-
	05/22/86	0002			0.6		0.1	-
	05/22/86	0003			0.5		0.1	-
	05/22/86	0004			0.5		0.1	-
	05/22/86	0005			0.5		0.1	-
	01/09/87	0001			0.21		0.1	-
CADMIUM	05/22/86	0001	MG/L	<	0.001		0.001	-
	05/22/86	0002		<	0.001		0.001	-
	05/22/86	0003		<	0.001		0.001	-
	05/22/86	0004		<	0.001		0.001	-
	05/22/86	0005		<	0.001		0.001	-
CALCIUM	05/22/86	0001	MG/L		565.		0.01	-
	05/22/86	0002			565.		0.01	-
	05/22/86	0003			565.		0.01	-
	05/22/86	0004			565.		0.01	-
	05/22/86	0005			565.		0.01	-
	01/09/87	0001			551.		0.01	-
CHLORIDE	05/22/86	0001	MG/L		240.		1.	-
	05/22/86	0002			240.		1.	-
	05/22/86	0003			240.		1.	-
	05/22/86	0004			240.		1.	-
	05/22/86	0005			240.		1.	-
	01/09/87	0001			200.		1.	-
CHROMIUM	05/22/86	0001	MG/L		0.04		0.01	-
	05/22/86	0002			0.04		0.01	-
	05/22/86	0003			0.04		0.01	-
	05/22/86	0004			0.04		0.01	-
	05/22/86	0005			0.04		0.01	-
	01/09/87	0001			0.02		0.01	-
COBALT	05/22/86	0001	MG/L		0.08		0.05	-
	05/22/86	0002			0.08		0.05	-
	05/22/86	0003			0.08		0.05	-
	05/22/86	0004			0.08		0.05	-
	05/22/86	0005			0.08		0.05	-
	01/09/87	0001			0.05		0.05	-
COPPER	01/09/87	0001	MG/L	<	0.01	J	0.02	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

OTHER PARAMETER VALUE FLAGS:
 J - ESTIMATED VALUE

SAMPLE ID CODES:

0001 - FILTERED SAMPLE (.45 MICRONS)
 0002 - FILTERED REPLICATE SAMPLE (.45 MICRONS)
 0003 - FILTERED REPLICATE SAMPLE (.45 MICRONS)
 0004 - FILTERED REPLICATE SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0650
 NORTH COORDINATE: 49990.0 FT
 EAST COORDINATE: 51010.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
FLUORIDE	05/22/86	0001	MG/L		0.6		0.1	-
	05/22/86	0002			0.6		0.1	-
	05/22/86	0003			0.6		0.1	-
	05/22/86	0004			0.6		0.1	-
	05/22/86	0005			0.6		0.1	-
	01/09/87	0001			0.61		0.1	-
GROSS ALPHA	01/09/87	0001	PCI/L		19.		0.2	23.
GROSS BETA	01/09/87	0001	PCI/L		24.		1.	13.
IRON	05/22/86	0001	MG/L		0.05		0.03	-
	05/22/86	0002			0.05		0.03	-
	05/22/86	0003			0.05		0.03	-
	05/22/86	0004			0.05		0.03	-
	05/22/86	0005			0.05		0.03	-
	01/09/87	0001			0.05		0.03	-
MAGNESIUM	05/22/86	0001	MG/L		171.		0.001	-
	05/22/86	0002			171.		0.001	-
	05/22/86	0003			171.		0.001	-
	05/22/86	0004			171.		0.001	-
	05/22/86	0005			171.		0.001	-
	01/09/87	0001			176.		0.001	-
MANGANESE	05/22/86	0001	MG/L		0.17		0.01	-
	05/22/86	0002			0.17		0.01	-
	05/22/86	0003			0.17		0.01	-
	05/22/86	0004			0.17		0.01	-
	05/22/86	0005			0.17		0.01	-
	01/09/87	0001			0.17		0.01	-
MOLYBDENUM	05/22/86	0001	MG/L		0.14		0.01	-
	05/22/86	0002			0.15		0.01	-
	05/22/86	0003			0.14		0.01	-
	05/22/86	0004			0.15		0.01	-
	05/22/86	0005			0.14		0.01	-
	01/09/87	0001		<	0.1		0.1	-
NET GROSS ALPHA *	01/09/87	0001	PCI/L		-4.94		-	-
NITRATE	05/22/86	0001	MG/L		5.		1.	-
	05/22/86	0002			5.		1.	-
	05/22/86	0003			5.		1.	-
	05/22/86	0004			5.		1.	-
	05/22/86	0005			5.		1.	-
	01/09/87	0001			49.		1.	-
PH	05/22/86	0001	SU		7.06		-	-
	05/22/86	0002			7.06		-	-
	05/22/86	0003			7.06		-	-
	05/22/86	0004			7.06		-	-
	05/22/86	0005			7.06		-	-
	01/09/87	0001			7.18		-	-

• NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:

0001 - FILTERED SAMPLE (.45 MICRONS)
 0002 - FILTERED REPLICATE SAMPLE (.45 MICRONS)
 0003 - FILTERED REPLICATE SAMPLE (.45 MICRONS)
 0004 - FILTERED REPLICATE SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0650
 NORTH COORDINATE: 49990.0 FT
 EAST COORDINATE: 51010.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
POTASSIUM	05/22/86	0001	MG/L		7.92		0.01	-
	05/22/86	0002			7.92		0.01	-
	05/22/86	0003			7.92		0.01	-
	05/22/86	0004			7.92		0.01	-
	05/22/86	0005			7.92		0.01	-
	01/09/87	0001			7.26		0.01	-
RADIUM-226	01/09/87	0001	PCI/L		0.5		1.	0.4
RADIUM-226 + RADIUM-228	01/09/87	0001	PCI/L		0.70		-	-
RADIUM-228	01/09/87	0001	PCI/L		0.2		1.	1.3
SELENIUM	05/22/86	0001	MG/L	<	0.005		0.005	-
	05/22/86	0002		<	0.005		0.005	-
	05/22/86	0003		<	0.005		0.005	-
	05/22/86	0004		<	0.005		0.005	-
	05/22/86	0005		<	0.005		0.005	-
	01/09/87	0001			0.007		0.005	-
SILVER	01/09/87	0001	MG/L	<	0.01		0.01	-
SODIUM	05/22/86	0001	MG/L		367.		0.002	-
	05/22/86	0002			367.		0.002	-
	05/22/86	0003			367.		0.002	-
	05/22/86	0004			367.		0.002	-
	05/22/86	0005			367.		0.002	-
	01/09/87	0001			411.		0.002	-
SPECIFIC CONDUCTANCE	05/22/86	0001	UMHO/CM		3200.		-	-
	05/22/86	0002			3200.		-	-
	05/22/86	0003			3200.		-	-
	05/22/86	0004			3200.		-	-
	05/22/86	0005			3200.		0.02	-
	01/09/87	0001			3100.		-	-
STRONTIUM	05/22/86	0001	MG/L		0.7		0.1	-
	05/22/86	0002			0.7		0.1	-
	05/22/86	0003			0.7		0.1	-
	05/22/86	0004			0.7		0.1	-
	05/22/86	0005			0.7		0.1	-
SULFATE	05/22/86	0001	MG/L		2360.		0.1	-
	05/22/86	0002			2360.		0.1	-
	05/22/86	0003			2360.		0.1	-
	05/22/86	0004			2360.		0.1	-
	05/22/86	0005			2360.		0.1	-
	01/09/87	0001			2250.		0.1	-
TEMPERATURE	05/22/86	0001	C - DEGREE		13.		-	-
	05/22/86	0002			13.		-	-
	05/22/86	0003			13.		-	-
	05/22/86	0004			13.		-	-
	05/22/86	0005			13.		-	-
	01/09/87	0001			12.5		-	-
TOTAL DISSOLVED SOLIDS	05/22/86	0001	MG/L		4330.		10.	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:

0001 - FILTERED SAMPLE (.45 MICRONS)
 0002 - FILTERED REPLICATE SAMPLE (.45 MICRONS)
 0003 - FILTERED REPLICATE SAMPLE (.45 MICRONS)
 0004 - FILTERED REPLICATE SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0650
 NORTH COORDINATE: 49990.0 FT
 EAST COORDINATE: 51010.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TOTAL DISSOLVED SOLIDS	05/22/86	0002	MG/L		4310.		10.	-
	05/22/86	0003			4290.		10.	-
	05/22/86	0004			4290.		10.	-
	05/22/86	0005			4450.		10.	-
	01/09/87	0001			4310.		10.	-
URANIUM	05/22/86	0001	MG/L		0.0305		0.003	-
	05/22/86	0002			0.0299		0.003	-
	05/22/86	0003			0.0297		0.003	-
	05/22/86	0004			0.0299		0.003	-
	05/22/86	0005			0.0351		0.003	-
	01/09/87	0001			0.0349		0.003	-
VANADIUM	05/22/86	0001	MG/L		0.23		0.01	-
	05/22/86	0002			0.23		0.01	-
	05/22/86	0003			0.23		0.01	-
	05/22/86	0004			0.23		0.01	-
	05/22/86	0005			0.23		0.01	-
	01/09/87	0001			0.01		0.01	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:

0001 - FILTERED SAMPLE (.45 MICRONS)
 0002 - FILTERED REPLICATE SAMPLE (.45 MICRONS)
 0003 - FILTERED REPLICATE SAMPLE (.45 MICRONS)
 0004 - FILTERED REPLICATE SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0674 RESERVED ESTORMS, MW, 11/14/88
 NORTH COORDINATE: UNKNOWN
 EAST COORDINATE: UNKNOWN
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	02/01/89	0001	MG/L CaCO3		466.		-	-
	09/19/89	0001			463.		-	-
	04/11/90	0001			538.		-	-
	01/24/91	0001			356.		-	-
	12/03/92	0001			447		-	-
ALUMINUM	02/01/89	0001	MG/L		0.16		0.1	-
	09/19/89	0001		<	0.1		0.1	-
	04/11/90	0001		<	0.1		0.1	-
	01/24/91	0001		<	0.05		0.05	-
AMMONIUM	02/01/89	0001	MG/L		0.28		0.1	-
	09/19/89	0001		<	0.1		0.1	-
	04/11/90	0001		<	0.1		0.1	-
	12/03/92	0001			0.2		0.1	-
ANTIMONY	02/01/89	0001	MG/L		0.003		0.003	-
	09/19/89	0001			0.020		0.003	-
	04/11/90	0001			0.040		0.003	-
	01/24/91	0001		<	0.003		0.003	-
	12/03/92	0001		<	0.003		0.003	-
ARSENIC	02/01/89	0001	MG/L	<	0.001	J	0.01	-
	09/19/89	0001			0.02		0.01	-
	04/11/90	0001		<	0.01		0.01	-
	01/24/91	0001		<	0.03	I	0.03	-
BARIUM	02/01/89	0001	MG/L	<	0.01	J	0.1	-
	09/19/89	0001		<	0.1		0.1	-
	04/11/90	0001		<	0.1		0.1	-
	01/24/91	0001		<	0.01		0.01	-
BERYLLIUM	02/01/89	0001	MG/L	<	0.005		0.005	-
	09/19/89	0001		<	0.01		0.01	-
	04/11/90	0001		<	0.01		0.01	-
	01/24/91	0001		<	0.005		0.005	-
BORON	02/01/89	0001	MG/L		0.50		0.1	-
	09/19/89	0001			0.5		0.1	-
	04/11/90	0001			0.5		0.1	-
	01/24/91	0001			0.51		0.05	-
BROMIDE	02/01/89	0001	MG/L		1.28		0.01	-
	09/19/89	0001		<	0.1		0.1	-
	04/11/90	0001			0.3	J	0.1	-
	01/24/91	0001			1.1		0.1	-
CADMIUM	02/01/89	0001	MG/L		0.0005	J	0.001	-
	09/19/89	0001			0.003		0.001	-
	04/11/90	0001		<	0.001		0.001	-
	01/24/91	0001		<	0.001		0.001	-
	12/03/92	0001		<	0.001		0.001	-
CALCIUM	02/01/89	0001	MG/L		444.		0.01	-
	09/19/89	0001			472.		0.01	-
	04/11/90	0001			411.		0.01	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
 I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0674 RESERVED ESTORMS, MW, 11/14/88
 NORTH COORDINATE: UNKNOWN
 EAST COORDINATE: UNKNOWN
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CALCIUM	01/24/91	0001	MG/L		462.		0.5	-
	12/03/92	0001			461.		0.5	-
CHLORIDE	02/01/89	0001	MG/L		165.		1.	-
	09/19/89	0001			170.		1.	-
	04/11/90	0001			185.		1.	-
	01/24/91	0001			166.		0.5	-
	12/03/92	0001			196.		5.	-
CHROMIUM	02/01/89	0001	MG/L	<	0.01		0.01	-
	09/19/89	0001		<	0.01		0.01	-
	04/11/90	0001		<	0.01		0.01	-
	01/24/91	0001		<	0.01		0.01	-
	12/03/92	0001		<	0.01		0.01	-
COBALT	02/01/89	0001	MG/L	<	0.01	J	0.05	-
	09/19/89	0001		<	0.05		0.05	-
	04/11/90	0001		<	0.05		0.05	-
	01/24/91	0001		<	0.03		0.03	-
	12/03/92	0001		<	0.03		0.03	-
COPPER	02/01/89	0001	MG/L	<	0.01	J	0.02	-
	09/19/89	0001		<	0.02		0.02	-
	04/11/90	0001			0.02		0.02	-
	01/24/91	0001		<	0.01		0.01	-
CYANIDE	02/01/89	0001	MG/L		0.004	J	0.01	-
	09/19/89	0001		<	0.01		0.01	-
	04/11/90	0001			0.01		0.01	-
	01/24/91	0001		<	0.01		0.01	-
FLUORIDE	02/01/89	0001	MG/L		0.6		0.1	-
	09/19/89	0001			0.4		0.1	-
	04/11/90	0001			0.5		0.1	-
	01/24/91	0001			0.5		0.1	-
	12/03/92	0001			0.6		0.1	-
GROSS ALPHA	02/01/89	0001	PCI/L		810.	J	1.	98.1
	09/19/89	0001			2200.		1.	100.
	04/11/90	0001			2200.		1.	100.
	01/24/91	0001			1662.		1.	145.
	12/03/92	0001			844.		1.0	89.6
GROSS BETA	02/01/89	0001	PCI/L		998.		0.5	68.7
	09/19/89	0001			1100.		0.5	40.
	04/11/90	0001			1000.		0.5	100.
	01/24/91	0001			579.		0.5	44.0
	12/03/92	0001			354.		68.2	54.0
IRON	02/01/89	0001	MG/L	<	0.02	J	0.03	-
	09/19/89	0001			0.11		0.03	-
	04/11/90	0001			0.10		0.03	-
	01/24/91	0001		<	0.03		0.03	-
	12/03/92	0001		<	0.03		0.03	-
LEAD	02/01/89	0001	MG/L		0.001	J	0.01	-
	09/19/89	0001			0.03		0.01	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0674 RESERVED ESTORMS, MW, 11/14/88
 NORTH COORDINATE: UNKNOWN
 EAST COORDINATE: UNKNOWN
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
LEAD	04/11/90	0001	MG/L	<	0.01		0.01	-
	01/24/91	0001		<	0.03	1	0.03	-
LEAD-210	02/01/89	0001	PCI/L		0.00		1.5	7.92
	09/19/89	0001			0.2		1.5	0.6
MAGNESIUM	02/01/89	0001	MG/L		230.		0.001	-
	09/19/89	0001			243.		0.001	-
	04/11/90	0001			229.		0.001	-
	01/24/91	0001			246.		0.5	-
	12/03/92	0001			222.		0.5	-
MANGANESE	02/01/89	0001	MG/L		0.38		0.01	-
	09/19/89	0001			0.06		0.01	-
	04/11/90	0001			0.02		0.01	-
	01/24/91	0001			0.03		0.01	-
MERCURY	02/01/89	0001	MG/L	<	0.0001	J	0.0002	-
	09/19/89	0001		<	0.0002		0.0002	-
	04/11/90	0001		<	0.0002		0.0002	-
	01/24/91	0001		<	0.0002		0.0002	-
MOLYBDENUM	02/01/89	0001	MG/L		9.81		0.01	-
	09/19/89	0001			9.19		0.01	-
	04/11/90	0001			8.62		0.01	-
	01/24/91	0001			5.25		0.01	-
	12/03/92	0001			5.75		0.05	-
NET GROSS ALPHA *	02/01/89	0001	PCI/L		-1798.17		-	-
	09/19/89	0001			-5140.20		-	-
	04/11/90	0001			320.36		-	-
	01/24/91	0001			-663.54		-	-
	12/03/92	0001			-781.82		-	-
NICKEL	02/01/89	0001	MG/L	<	0.02	J	0.04	-
	09/19/89	0001		<	0.04		0.04	-
	04/11/90	0001		<	0.04		0.04	-
	01/24/91	0001		<	0.04		0.04	-
	12/03/92	0001			0.10		0.04	-
NITRATE	02/01/89	0001	MG/L		36.5		1.	-
	09/19/89	0001			9.7		1.	-
	04/11/90	0001			12.4		1.	-
	12/03/92	0001			69.		10.	-
NITRITE AND NITRATE	04/11/90	0001	MG/L		2.8		1.	-
PH	02/01/89	0001	SU		7.25		-	-
	09/19/89	0001			7.27		-	-
	04/11/90	0001			6.99		-	-
	01/24/91	0001			7.61		-	-
	12/03/92	0001			7.16		-	-
PHOSPHATE	09/19/89	0001	MG/L	<	0.1		0.1	-

* NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:

0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:

I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0674 RESERVED ESTORMS, MW, 11/14/88
 NORTH COORDINATE: UNKNOWN
 EAST COORDINATE: UNKNOWN
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
PHOSPHATE	04/11/90	0001	MG/L	<	0.1		0.1	-
	01/24/91	0001		<	0.05		0.05	-
	12/03/92	0001			3.2		0.2	-
POLONIUM-210	02/01/89	0001	PCI/L		0.621	J	1.	1.29
	09/19/89	0001			1.5		1.	0.5
POTASSIUM	02/01/89	0001	MG/L		6.9		0.01	-
	09/19/89	0001			5.5		0.01	-
	04/11/90	0001			6.1		0.01	-
	01/24/91	0001			6.1		0.01	-
	12/03/92	0001			4.59		0.01	-
RADIUM-226	02/01/89	0001	PCI/L		0.744		1.	0.404
	09/19/89	0001			0.0		1.	0.1
	04/11/90	0001			0.1		1.	0.1
	12/03/92	0001			0.4	H	1.0	0.7
RADIUM-226 + RADIUM-228	02/01/89	0001	PCI/L		0.74		-	-
	09/19/89	0001			0.80		-	-
	04/11/90	0001			0.30		-	-
	12/03/92	0001			0.70		-	-
RADIUM-228	02/01/89	0001	PCI/L		0.00		1.	6.57
	09/19/89	0001			0.8		1.	2.0
	04/11/90	0001			0.2		1.	1.1
	12/03/92	0001			0.3	H	1.0	1.4
SELENIUM	02/01/89	0001	MG/L		1.390		0.005	-
	09/19/89	0001			1.05		0.005	-
	04/11/90	0001			0.043		0.005	-
	01/24/91	0001			0.800		0.005	-
	12/03/92	0001			3.1		0.1	-
SILICA - SiO2	02/01/89	0001	MG/L		16.3		2.	-
	09/19/89	0001			20.		2.	-
	04/11/90	0001			18.		2.	-
	01/24/91	0001			17.8		0.1	-
SILVER	02/01/89	0001	MG/L	<	0.01		0.01	-
	09/19/89	0001			0.01		0.01	-
	04/11/90	0001		<	0.01		0.01	-
	01/24/91	0001		<	0.01		0.01	-
	12/03/92	0001		<	0.01		0.01	-
SODIUM	02/01/89	0001	MG/L		945.		0.002	-
	09/19/89	0001			913.		0.002	-
	04/11/90	0001			952.		0.002	-
	01/24/91	0001			1060.	J	5.	-
	12/03/92	0001			757.		5.	-
SPECIFIC CONDUCTANCE	02/01/89	0001	UMHO/CM		3200.		-	-
	09/19/89	0001			2000.		-	-
	04/11/90	0001			3450.		-	-
	01/24/91	0001			3950.		-	-
	12/03/92	0001			4100		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
 H - HOLD TIME EXPIRED, VALUE SUSPECT
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0674 RESERVED ESTORMS, MW, 11/14/88
 NORTH COORDINATE: UNKNOWN
 EAST COORDINATE: UNKNOWN
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
STRONTIUM	02/01/89	0001	MG/L		8.70		0.1	-
	09/19/89	0001			8.6		0.1	-
	04/11/90	0001			8.36		0.1	-
	01/24/91	0001			7.05		0.01	-
SULFATE	02/01/89	0001	MG/L		3523.		0.1	-
	09/19/89	0001			3630.		0.1	-
	04/11/90	0001			3550.		0.1	-
	01/24/91	0001			3540.		10.	-
	12/03/92	0001			2690.		10.	-
SULFIDE	02/01/89	0001	MG/L	<	0.01	J	0.1	-
	09/19/89	0001		<	0.1		0.1	-
	04/11/90	0001		<	0.1		0.1	-
TEMPERATURE	02/01/89	0001	C - DEGREE		11.0		-	-
	09/19/89	0001			13.5		-	-
	04/11/90	0001			12.5		-	-
	01/24/91	0001			10.5		-	-
	12/03/92	0001			11.0		-	-
THALLIUM	02/01/89	0001	MG/L	<	0.005		0.005	-
	09/19/89	0001		<	0.01		0.01	-
	04/11/90	0001		<	0.01		0.01	-
	01/24/91	0001		<	0.03	I	0.03	-
THORIUM-230	02/01/89	0001	PCI/L		5.25		1.	1.01
	09/19/89	0001			0.0		1.	0.3
TIN	02/01/89	0001	MG/L	<	0.001	J	0.005	-
	09/19/89	0001			0.150		0.005	-
	04/11/90	0001			0.047		0.005	-
	01/24/91	0001		<	0.03	I	0.03	-
TOTAL DISSOLVED SOLIDS	02/01/89	0001	MG/L		5768.		10.	-
	09/19/89	0001			6030.		10.	-
	04/11/90	0001			5540.		10.	-
	01/24/91	0001			5840.		10.	-
	12/03/92	0001			4980.		10.	-
TOTAL KJELDAHL NITROGEN	01/24/91	0001	MG/L		1.		1.	-
	12/03/92	0001			1.		1.	-
TOTAL ORGANIC CARBON	02/01/89	0001	MG/L		16.		1.	-
	09/19/89	0001			120.		1.	-
	04/11/90	0001			45.		1.	-
	01/24/91	0001			8.		1.	-
	12/03/92	0001			10.		1.	-
URANIUM	02/01/89	0001	MG/L		3.802		0.003	-
	09/19/89	0001			10.7		0.003	-
	04/11/90	0001			2.74		0.003	-
	01/24/91	0001			3.39		0.001	-
	12/03/92	0001			2.37		0.001	-
VANADIUM	02/01/89	0001	MG/L	<	0.01		0.01	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:

I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0674 RESERVED ESTORMS, MW, 11/14/88
 NORTH COORDINATE: UNKNOWN
 EAST COORDINATE: UNKNOWN
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
VANADIUM	09/19/89	0001	MG/L		0.02		0.01	-
	04/11/90	0001		<	0.01		0.01	-
	01/24/91	0001		<	0.01		0.01	-
	12/03/92	0001		<	0.05	I	0.05	-
ZINC	02/01/89	0001	MG/L		0.58		0.005	-
	09/19/89	0001		<	0.005		0.005	-
	04/11/90	0001		<	0.005		0.005	-
	01/24/91	0001			0.007		0.005	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
 I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0675 RESERVED ESTORMS, MW, 11/14/88
 NORTH COORDINATE: UNKNOWN
 EAST COORDINATE: UNKNOWN
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: MANCOS SHALE (KM)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	02/02/89	0001	MG/L CAC03		551.		-	-
	09/14/89	0001			428.		-	-
	04/11/90	0001			484.		-	-
	01/16/91	0001			278.		-	-
ALUMINUM	02/02/89	0001	MG/L	<	0.05	J	0.1	-
	09/14/89	0001		<	0.1		0.1	-
	04/11/90	0001		<	0.1		0.1	-
	01/16/91	0001		<	0.05		0.05	-
AMMONIUM	02/02/89	0001	MG/L		0.15		0.1	-
	09/14/89	0001		<	0.1		0.1	-
	04/11/90	0001		<	0.1		0.1	-
	01/16/91	0001			0.28		0.01	-
ANTIMONY	02/02/89	0001	MG/L		0.003		0.003	-
	09/14/89	0001			0.021		0.003	-
	04/11/90	0001			0.053		0.003	-
	01/16/91	0001		<	0.003		0.003	-
ARSENIC	02/02/89	0001	MG/L	<	0.001	J	0.01	-
	09/14/89	0001			0.02		0.01	-
	04/11/90	0001		<	0.01		0.01	-
	01/16/91	0001		<	0.03	I	0.03	-
BARIUM	02/02/89	0001	MG/L		0.02	J	0.1	-
	09/14/89	0001		<	0.1		0.1	-
	04/11/90	0001		<	0.1		0.1	-
	01/16/91	0001			0.01		0.01	-
BERYLLIUM	02/02/89	0001	MG/L	<	0.005		0.005	-
	09/14/89	0001		<	0.01		0.01	-
	04/11/90	0001		<	0.01		0.01	-
	01/16/91	0001		<	0.005		0.005	-
BORON	02/02/89	0001	MG/L		0.91		0.1	-
	09/14/89	0001			0.9		0.1	-
	04/11/90	0001			0.8		0.1	-
	01/16/91	0001			0.73		0.05	-
BROMIDE	02/02/89	0001	MG/L		2.86		0.01	-
	09/14/89	0001			2.2		0.1	-
	04/11/90	0001			2.0	J	0.1	-
	01/16/91	0001			7.1		0.1	-
CADMIUM	02/02/89	0001	MG/L		0.0003	J	0.001	-
	09/14/89	0001			0.003		0.001	-
	04/11/90	0001		<	0.001		0.001	-
	01/16/91	0001		<	0.001		0.001	-
CALCIUM	02/02/89	0001	MG/L		464.		0.01	-
	09/14/89	0001			505.		0.01	-
	04/11/90	0001			431.		0.01	-
	01/16/91	0001			496.		0.01	-
CHLORIDE	02/02/89	0001	MG/L		309.		1.	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:

I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0675 RESERVED ESTORMS, MW, 11/14/88
 NORTH COORDINATE: UNKNOWN
 EAST COORDINATE: UNKNOWN
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: MANCOS SHALE (KM)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CHLORIDE	09/14/89	0001	MG/L		360.		1.	-
	04/11/90	0001			407.		1.	-
	01/16/91	0001			510.		0.5	-
CHROMIUM	02/02/89	0001	MG/L	<	0.01		0.01	-
	09/14/89	0001		<	0.01		0.01	-
	04/11/90	0001		<	0.01		0.01	-
	01/16/91	0001		<	0.01		0.01	-
COBALT	02/02/89	0001	MG/L	<	0.01	J	0.05	-
	09/14/89	0001		<	0.05		0.05	-
	04/11/90	0001		<	0.05		0.05	-
	01/16/91	0001		<	0.03		0.03	-
COPPER	02/02/89	0001	MG/L	<	0.01	J	0.02	-
	09/14/89	0001		<	0.02		0.02	-
	04/11/90	0001		<	0.02		0.02	-
	01/16/91	0001		<	0.01		0.01	-
CYANIDE	02/02/89	0001	MG/L		0.263		0.01	-
	09/14/89	0001			0.01		0.01	-
	04/11/90	0001			0.36		0.01	-
	01/16/91	0001			0.24		0.01	-
FLUORIDE	02/02/89	0001	MG/L		0.3		0.1	-
	09/14/89	0001			0.2		0.1	-
	04/11/90	0001			0.3		0.1	-
	01/16/91	0001			0.4		0.1	-
GROSS ALPHA	02/02/89	0001	PCI/L		674.		1.	103.
	09/14/89	0001			1700.		1.	100.
	04/11/90	0001			1100.		1.	100.
	01/16/91	0001			397.		1.	74.9
GROSS BETA	02/02/89	0001	PCI/L		0.00		0.5	41.1
	09/14/89	0001			740.		0.5	40.
	04/11/90	0001			440.		0.5	30.
	01/16/91	0001			201.		0.5	33.4
IRON	02/02/89	0001	MG/L		0.66		0.03	-
	09/14/89	0001			0.24		0.03	-
	04/11/90	0001			0.21		0.03	-
	01/16/91	0001			0.09		0.03	-
LEAD	02/02/89	0001	MG/L		0.001	J	0.01	-
	09/14/89	0001			0.02		0.01	-
	04/11/90	0001		<	0.01		0.01	-
	01/16/91	0001		<	0.03	I	0.03	-
LEAD-210	02/02/89	0001	PCI/L		0.00		1.5	5.28
	09/14/89	0001			0.8		1.5	0.7
MAGNESIUM	02/02/89	0001	MG/L		340.		0.001	-
	09/14/89	0001			338.		0.001	-
	04/11/90	0001			292.		0.001	-
	01/16/91	0001			288.		0.5	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:

I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0675 RESERVED ESTORMS, MW, 11/14/88
 NORTH COORDINATE: UNKNOWN
 EAST COORDINATE: UNKNOWN
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: MANCOS SHALE (KM)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
MANGANESE	02/02/89	0001	MG/L		0.10		0.01	-
	09/14/89	0001			0.04		0.01	-
	04/11/90	0001			0.04		0.01	-
	01/16/91	0001		<	0.01		0.01	-
MERCURY	02/02/89	0001	MG/L	<	0.0001	J	0.0002	-
	09/14/89	0001		<	0.0002		0.0002	-
	04/11/90	0001		<	0.0002		0.0002	-
	01/16/91	0001		<	0.0002		0.0002	-
MOLYBDENUM	02/02/89	0001	MG/L		2.72		0.01	-
	09/14/89	0001			1.77		0.01	-
	04/11/90	0001			1.11		0.01	-
	01/16/91	0001			0.28		0.01	-
NET GROSS ALPHA *	02/02/89	0001	PCI/L		-754.94		-	-
	09/14/89	0001			993.42		-	-
	04/11/90	0001			478.48		-	-
	01/16/91	0001			-302.72		-	-
NICKEL	02/02/89	0001	MG/L	<	0.02	J	0.04	-
	09/14/89	0001			0.04		0.04	-
	04/11/90	0001		<	0.04		0.04	-
	01/16/91	0001		<	0.04		0.04	-
NITRATE	02/02/89	0001	MG/L		138.6		1.	-
	09/14/89	0001			160.		1.	-
	04/11/90	0001			173.		1.	-
	01/16/91	0001			252.		0.1	-
NITRITE AND NITRATE	04/11/90	0001	MG/L		39.0		1.	-
	01/16/91	0001			54.0		0.05	-
PH	02/02/89	0001	SU		7.03		-	-
	09/14/89	0001			6.95		-	-
	04/11/90	0001			6.81		-	-
	01/16/91	0001			7.20		-	-
PHOSPHATE	02/02/89	0001	MG/L	<	0.1		0.1	-
	09/14/89	0001		<	0.1		0.1	-
	04/11/90	0001			0.3		0.1	-
	01/16/91	0001			0.10		0.05	-
POLONIUM-210	02/02/89	0001	PCI/L		0.00		1.	1.01
	09/14/89	0001			1.3		1.	0.5
POTASSIUM	02/02/89	0001	MG/L		15.6		0.01	-
	09/14/89	0001			11.6		0.01	-
	04/11/90	0001			1.8		0.01	-
	01/16/91	0001			7.6		0.01	-
RADIUM-226	02/02/89	0001	PCI/L		2.05		1.	0.271
	09/14/89	0001			0.4		1.	0.2
	04/11/90	0001			0.2		1.	0.2
	01/16/91	0001			1.6		1.	0.6

* NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0675 RESERVED ESTORMS, MW, 11/14/88
 NORTH COORDINATE: UNKNOWN
 EAST COORDINATE: UNKNOWN
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: MANCOS SHALE (KM)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
RADIUM-226 + RADIUM-228	02/02/89	0001	PCI/L		4.03		-	-
	09/14/89	0001			1.50		-	-
	04/11/90	0001			1.50		-	-
	01/16/91	0001			2.60		-	-
RADIUM-228	02/02/89	0001	PCI/L		1.98		1.	8.10
	09/14/89	0001			1.1		1.	0.8
	04/11/90	0001			1.3		1.	0.9
	01/16/91	0001			1.0		1.	1.6
SELENIUM	02/02/89	0001	MG/L		0.510		0.005	-
	09/14/89	0001			0.421		0.005	-
	04/11/90	0001			0.030		0.005	-
	01/16/91	0001			0.500		0.005	-
SILICA - SIO2	02/02/89	0001	MG/L		10.0		2.	-
	09/14/89	0001			11.		2.	-
	04/11/90	0001			10.		2.	-
	01/16/91	0001			9.8		0.1	-
SILVER	02/02/89	0001	MG/L	<	0.01		0.01	-
	09/14/89	0001			0.02		0.01	-
	04/11/90	0001		<	0.01		0.01	-
	01/16/91	0001		<	0.01		0.01	-
SODIUM	02/02/89	0001	MG/L		1200.		0.002	-
	09/14/89	0001			1090.		0.002	-
	04/11/90	0001			1090.		0.002	-
	01/16/91	0001			1050.	J	5.	-
SPECIFIC CONDUCTANCE	02/02/89	0001	UMHO/CM		3600.		-	-
	09/14/89	0001			2700.		-	-
	04/11/90	0001			4500.		-	-
	01/16/91	0001			4600.		-	-
STRONTIUM	02/02/89	0001	MG/L		12.2		0.1	-
	09/14/89	0001			12.0		0.1	-
	04/11/90	0001			11.5		0.1	-
	01/16/91	0001			10.9		0.01	-
SULFATE	02/02/89	0001	MG/L		4141.		0.1	-
	09/14/89	0001			4110.		0.1	-
	04/11/90	0001			3770.		0.1	-
	01/16/91	0001			3340.		10.	-
SULFIDE	02/02/89	0001	MG/L	<	0.01	J	0.1	-
	09/14/89	0001		<	0.1		0.1	-
	04/11/90	0001		<	0.1		0.1	-
	01/16/91	0001		<	0.1		0.1	-
TEMPERATURE	02/02/89	0001	C - DEGREE		12.0		-	-
	09/14/89	0001			12.0		-	-
	04/11/90	0001			12.		-	-
	01/16/91	0001			11.5		-	-
THALLIUM	02/02/89	0001	MG/L	<	0.005		0.005	-
	09/14/89	0001		<	0.01		0.01	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0675 RESERVED ESTORMS, MW, 11/14/88
 NORTH COORDINATE: UNKNOWN
 EAST COORDINATE: UNKNOWN
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: MANCOS SHALE (KM)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
THALLIUM	04/11/90	0001	MG/L	<	0.01		0.01	-
	01/16/91	0001		<	0.03	I	0.03	-
THORIUM-230	02/02/89	0001	PCI/L		1.02		1.	0.423
	09/14/89	0001			0.1		1.	0.4
TIN	02/02/89	0001	MG/L	<	0.001	J	0.005	-
	09/14/89	0001			0.171		0.005	-
	04/11/90	0001			0.036		0.005	-
	01/16/91	0001		<	0.03	I	0.03	-
TOTAL DISSOLVED SOLIDS	02/02/89	0001	MG/L		7208.		10.	-
	09/14/89	0001			6650.		10.	-
	04/11/90	0001			6420.		10.	-
	01/16/91	0001			6350.		10.	-
TOTAL KJELDAHL NITROGEN	01/16/91	0001	MG/L		2.		1.	-
TOTAL ORGANIC CARBON	02/02/89	0001	MG/L		40.		1.	-
	09/14/89	0001			140.		1.	-
	04/11/90	0001			173.		1.	-
	01/16/91	0001			27.		1.	-
URANIUM	02/02/89	0001	MG/L		2.083		0.003	-
	09/14/89	0001			1.03		0.003	-
	04/11/90	0001			0.906		0.003	-
	01/16/91	0001			1.02		0.001	-
VANADIUM	02/02/89	0001	MG/L	<	0.01		0.01	-
	09/14/89	0001		<	0.01		0.01	-
	04/11/90	0001		<	0.01		0.01	-
	01/16/91	0001		<	0.01		0.01	-
ZINC	02/02/89	0001	MG/L		0.96		0.005	-
	09/14/89	0001		<	0.005		0.005	-
	04/11/90	0001		<	0.005		0.005	-
	01/16/91	0001		<	0.005		0.005	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:

0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:

I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0676 RESERVED ESTORMS, MW, 11/14/88
 NORTH COORDINATE: UNKNOWN
 EAST COORDINATE: UNKNOWN
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C2 SANDSTONE (TT)
 HYDRAULIC FLOW RELATIONSHIP: CROSS GRADIENT (C)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	02/02/89	0001	MG/L CaCO3		331.		-	-
	09/19/89	0001			349.		-	-
	04/06/90	0001			440.		-	-
	01/18/91	0001			432.		-	-
	11/24/92	0001			445		-	-
ALUMINUM	02/02/89	0001	MG/L	<	0.05	J	0.1	-
	09/19/89	0001		<	0.1		0.1	-
	04/06/90	0001		<	0.1		0.1	-
	01/18/91	0001		<	0.05		0.05	-
AMMONIUM	02/02/89	0001	MG/L		0.63		0.1	-
	09/19/89	0001			0.3		0.1	-
	04/06/90	0001		<	0.1		0.1	-
	01/18/91	0001			0.31		0.01	-
	11/24/92	0001			0.6		0.1	-
ANTIMONY	02/02/89	0001	MG/L		0.009		0.003	-
	09/19/89	0001			0.039		0.003	-
	04/06/90	0001			0.067		0.003	-
	01/18/91	0001			0.003		0.003	-
	11/24/92	0001		<	0.003		0.003	-
ARSENIC	02/02/89	0001	MG/L	<	0.001	J	0.01	-
	09/19/89	0001		<	0.01		0.01	-
	04/06/90	0001		<	0.01		0.01	-
	01/18/91	0001		<	0.03	I	0.03	-
BARIUM	02/02/89	0001	MG/L		0.02	J	0.1	-
	09/19/89	0001		<	0.1		0.1	-
	04/06/90	0001		<	0.1		0.1	-
	01/18/91	0001			0.01		0.01	-
BERYLLIUM	02/02/89	0001	MG/L	<	0.005		0.005	-
	09/19/89	0001		<	0.01		0.01	-
	04/06/90	0001		<	0.01		0.01	-
	01/18/91	0001		<	0.005		0.005	-
BORON	02/02/89	0001	MG/L		0.78		0.1	-
	09/19/89	0001			0.7		0.1	-
	04/06/90	0001			0.6		0.1	-
	01/18/91	0001			0.59		0.05	-
BROMIDE	02/02/89	0001	MG/L		0.71		0.01	-
	09/19/89	0001		<	0.1		0.1	-
	04/06/90	0001			1.0	J	0.1	-
	01/18/91	0001			0.6		0.1	-
CADMIUM	02/02/89	0001	MG/L		0.0001	J	0.001	-
	09/19/89	0001			0.003		0.001	-
	04/06/90	0001		<	0.001		0.001	-
	01/18/91	0001		<	0.001		0.001	-
	11/24/92	0001		<	0.001		0.001	-
CALCIUM	02/02/89	0001	MG/L		111.		0.01	-
	09/19/89	0001			44.6		0.01	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
 I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0676 RESERVED ESTORMS, MW, 11/14/88
 NORTH COORDINATE: UNKNOWN
 EAST COORDINATE: UNKNOWN
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C2 SANDSTONE (TT)
 HYDRAULIC FLOW RELATIONSHIP: CROSS GRADIENT (C)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CALCIUM	04/06/90	0001	MG/L		34.4		0.01	-
	01/18/91	0001			25.3		0.5	-
	11/24/92	0001			26.0		0.5	-
CHLORIDE	02/02/89	0001	MG/L		210.		1.	-
	09/19/89	0001			150.		1.	-
	04/06/90	0001			31.		1.	-
	01/18/91	0001			32.		0.5	-
	11/24/92	0001			28.		1.	-
CHROMIUM	02/02/89	0001	MG/L	<	0.01		0.01	-
	09/19/89	0001		<	0.01		0.01	-
	04/06/90	0001		<	0.01		0.01	-
	01/18/91	0001		<	0.01		0.01	-
	11/24/92	0001		<	0.01		0.01	-
COBALT	02/02/89	0001	MG/L	<	0.01	J	0.05	-
	09/19/89	0001		<	0.05		0.05	-
	04/06/90	0001		<	0.05		0.05	-
	01/18/91	0001		<	0.03		0.03	-
	11/24/92	0001		<	0.03		0.03	-
COPPER	02/02/89	0001	MG/L		0.01	J	0.02	-
	09/19/89	0001		<	0.02		0.02	-
	04/06/90	0001		<	0.02		0.02	-
	01/18/91	0001		<	0.01		0.01	-
CYANIDE	02/02/89	0001	MG/L	<	0.002	J	0.01	-
	09/19/89	0001			0.01		0.01	-
	04/06/90	0001		<	0.01		0.01	-
	01/18/91	0001		<	0.01		0.01	-
FLUORIDE	02/02/89	0001	MG/L		1.1		0.1	-
	09/19/89	0001			1.4		0.1	-
	04/06/90	0001			0.7		0.1	-
	01/18/91	0001			0.9		0.1	-
	11/24/92	0001			0.9		0.1	-
GROSS ALPHA	02/02/89	0001	PCI/L		85.9		1.	27.8
	04/06/90	0001			24.		1.	11.
	01/18/91	0001			48.1		1.	23.1
	11/24/92	0001			3.9	H	1.0	15.9
GROSS BETA	02/02/89	0001	PCI/L		79.9		0.5	26.8
	04/06/90	0001			15.		0.5	8.
	01/18/91	0001			20.7		0.5	9.8
	11/24/92	0001			0.0		29.5	16.3
IRON	02/02/89	0001	MG/L	<	0.02	J	0.03	-
	09/19/89	0001			0.03		0.03	-
	04/06/90	0001		<	0.03		0.03	-
	01/18/91	0001		<	0.03		0.03	-
	11/24/92	0001			0.12		0.03	-
LEAD	02/02/89	0001	MG/L	<	0.001	J	0.01	-
	09/19/89	0001			0.04		0.01	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
 H - HOLD TIME EXPIRED, VALUE SUSPECT
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0676 RESERVED ESTORMS, MW, 11/14/88
 NORTH COORDINATE: UNKNOWN
 EAST COORDINATE: UNKNOWN
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C2 SANDSTONE (TT)
 HYDRAULIC FLOW RELATIONSHIP: CROSS GRADIENT (C)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
LEAD	04/06/90	0001	MG/L	<	0.01		0.01	-
	01/18/91	0001		<	0.03	I	0.03	-
LEAD-210	02/02/89	0001	PCI/L		0.00		1.5	6.21
MAGNESIUM	02/02/89	0001	MG/L		33.		0.001	-
	09/19/89	0001			15.2		0.001	-
	04/06/90	0001			14.3		0.001	-
	01/18/91	0001			10.0		0.1	-
	11/24/92	0001			9.5		0.1	-
MANGANESE	02/02/89	0001	MG/L		0.13		0.01	-
	09/19/89	0001			0.43		0.01	-
	04/06/90	0001			0.02		0.01	-
	01/18/91	0001			0.03		0.01	-
MERCURY	02/02/89	0001	MG/L	<	0.0001	J	0.0002	-
	09/19/89	0001		<	0.0002		0.0002	-
	04/06/90	0001		<	0.0002		0.0002	-
	01/18/91	0001		<	0.0002		0.0002	-
MOLYBDENUM	02/02/89	0001	MG/L		0.595		0.01	-
	09/19/89	0001			0.24		0.01	-
	04/06/90	0001			0.02		0.01	-
	01/18/91	0001			0.02		0.01	-
	11/24/92	0001			0.01		0.01	-
NET GROSS ALPHA *	02/02/89	0001	PCI/L		-56.10		-	-
	04/06/90	0001			18.92		-	-
	01/18/91	0001			47.76		-	-
	11/24/92	0001			1.84		-	-
NICKEL	02/02/89	0001	MG/L	<	0.02	J	0.04	-
	09/19/89	0001		<	0.04		0.04	-
	04/06/90	0001		<	0.04		0.04	-
	01/18/91	0001		<	0.04		0.04	-
	11/24/92	0001		<	0.04		0.04	-
NITRATE	02/02/89	0001	MG/L		4.5		1.	-
	09/19/89	0001			3.1		1.	-
	04/06/90	0001			25.6		1.	-
	01/18/91	0001			18.6		0.1	-
	11/24/92	0001			1.8		1.0	-
NITRITE AND NITRATE	04/06/90	0001	MG/L		5.8		1.	-
	01/18/91	0001			4.74		0.05	-
PH	02/02/89	0001	SU		8.20		-	-
	09/19/89	0001			8.02		-	-
	04/06/90	0001			7.64		-	-
	01/18/91	0001			8.09		-	-
	11/24/92	0001			7.91		-	-
PHOSPHATE	02/02/89	0001	MG/L	<	0.1		0.1	-

* NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:

I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0676 RESERVED ESTORMS, MW, 11/14/88
 NORTH COORDINATE: UNKNOWN
 EAST COORDINATE: UNKNOWN
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C2 SANDSTONE (TT)
 HYDRAULIC FLOW RELATIONSHIP: CROSS GRADIENT (C)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
PHOSPHATE	09/19/89	0001	MG/L	<	0.1		0.1	-
	04/06/90	0001			0.3		0.1	-
	01/18/91	0001			0.12		0.05	-
	11/24/92	0001			0.6		0.1	-
POLONIUM-210	02/02/89	0001	PCI/L		0.777		1.	1.33
POTASSIUM	02/02/89	0001	MG/L		10.4		0.01	-
	09/19/89	0001			5.4		0.01	-
	04/06/90	0001			4.8		0.01	-
	01/18/91	0001			3.3		0.01	-
	11/24/92	0001			3.82		0.01	-
RADIUM-226	02/02/89	0001	PCI/L		1.72		1.	0.291
	04/06/90	0001			0.4		1.	0.3
	01/18/91	0001			1.0		1.	0.5
	11/24/92	0001			0.9		0.3	0.4
RADIUM-226 + RADIUM-228	02/02/89	0001	PCI/L		24.12		-	-
	04/06/90	0001			1.60		-	-
	01/18/91	0001			4.00		-	-
	11/24/92	0001			1.30		-	-
RADIUM-228	02/02/89	0001	PCI/L		22.4		1.	8.63
	04/06/90	0001			1.2		1.	0.9
	01/18/91	0001			3.0		1.	1.6
	11/24/92	0001			0.4	H	1.0	1.5
SELENIUM	02/02/89	0001	MG/L		0.091		0.005	-
	09/19/89	0001			0.021		0.005	-
	04/06/90	0001		<	0.005		0.005	-
	01/18/91	0001		<	0.03	I	0.03	-
	11/24/92	0001		<	0.05	I	0.05	-
SILICA - SiO2	02/02/89	0001	MG/L		13.3		2.	-
	09/19/89	0001			11.		2.	-
	04/06/90	0001			8.		2.	-
	01/18/91	0001			7.1		0.1	-
SILVER	02/02/89	0001	MG/L	<	0.01		0.01	-
	09/19/89	0001		<	0.01		0.01	-
	04/06/90	0001		<	0.01		0.01	-
	01/18/91	0001		<	0.01		0.01	-
	11/24/92	0001		<	0.01		0.01	-
SODIUM	02/02/89	0001	MG/L		750.		0.002	-
	09/19/89	0001			804.		0.002	-
	04/06/90	0001			674.		0.002	-
	01/18/91	0001			754.	J	5.	-
	11/24/92	0001			665.		5.	-
SPECIFIC CONDUCTANCE	02/02/89	0001	UMHO/CM		2000.		-	-
	09/19/89	0001			1450.		-	-
	04/06/90	0001			2000.		-	-
	01/18/91	0001			2150.		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:

H - HOLD TIME EXPIRED, VALUE SUSPECT
 I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0676 RESERVED ESTORMS, MW, 11/14/88
 NORTH COORDINATE: UNKNOWN
 EAST COORDINATE: UNKNOWN
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C2 SANDSTONE (TT)
 HYDRAULIC FLOW RELATIONSHIP: CROSS GRADIENT (C)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SPECIFIC CONDUCTANCE	11/24/92	0001	UMHO/CM		2200		-	-
STRONTIUM	02/02/89	0001	MG/L		3.30		0.1	-
	09/19/89	0001			1.7		0.1	-
	04/06/90	0001			1.69		0.1	-
	01/18/91	0001			1.47		0.01	-
SULFATE	02/02/89	0001	MG/L		1494.		0.1	-
	09/19/89	0001			1460.		0.1	-
	04/06/90	0001			1130.		0.1	-
	01/18/91	0001			1120.		10.	-
	11/24/92	0001			920.		10.	-
SULFIDE	02/02/89	0001	MG/L	<	0.01	J	0.1	-
	04/06/90	0001		<	0.1		0.1	-
	01/18/91	0001		<	0.1		0.1	-
TEMPERATURE	02/02/89	0001	C - DEGREE		11.0		-	-
	09/19/89	0001			15.0		-	-
	04/06/90	0001			13.		-	-
	01/18/91	0001			11.		-	-
	11/24/92	0001			11.5		-	-
THALLIUM	02/02/89	0001	MG/L	<	0.005	I	0.005	-
	09/19/89	0001			0.01		0.01	-
	04/06/90	0001		<	0.01		0.01	-
	01/18/91	0001		<	0.03	I	0.03	-
THORIUM-230	02/02/89	0001	PCI/L		0.159		1.	0.367
TIN	02/02/89	0001	MG/L	<	0.001	J	0.005	-
	09/19/89	0001			0.141		0.005	-
	04/06/90	0001			0.052		0.005	-
	01/18/91	0001		<	0.03	I	0.03	-
TOTAL DISSOLVED SOLIDS	02/02/89	0001	MG/L		2668.		10.	-
	09/19/89	0001			2530.		10.	-
	04/06/90	0001			2010.		10.	-
	01/18/91	0001			2180.		10.	-
	11/24/92	0001			2150.		10.	-
TOTAL KJELDAHL NITROGEN	01/18/91	0001	MG/L		1.		1.	-
	11/24/92	0001			1.		1.	-
TOTAL ORGANIC CARBON	02/02/89	0001	MG/L		20.		1.	-
	09/19/89	0001			12.		1.	-
	04/06/90	0001			101.		1.	-
	01/18/91	0001			8.		1.	-
	11/24/92	0001			2.		1.	-
URANIUM	02/02/89	0001	MG/L		0.207		0.003	-
	09/19/89	0001			0.016		0.003	-
	04/06/90	0001			0.0074		0.003	-
	01/18/91	0001		<	0.001		0.001	-
	11/24/92	0001			0.003	H	0.001	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:

H - HOLD TIME EXPIRED, VALUE SUSPECT
 I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0676 RESERVED ESTORMS, MW, 11/14/88
 NORTH COORDINATE: UNKNOWN
 EAST COORDINATE: UNKNOWN
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C2 SANDSTONE (TT)
 HYDRAULIC FLOW RELATIONSHIP: CROSS GRADIENT (C)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
VANADIUM	02/02/89	0001	MG/L	<	0.01		0.01	-
	09/19/89	0001		<	0.01		0.01	-
	04/06/90	0001		<	0.01		0.01	-
	01/18/91	0001		<	0.01		0.01	-
	11/24/92	0001		<	0.01		0.01	-
ZINC	02/02/89	0001	MG/L	<	0.01		0.01	-
	09/19/89	0001			0.048		0.005	-
	04/06/90	0001			0.005		0.005	-
	01/18/91	0001			0.030		0.005	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0677 RESERVED ESTORMS, MW, 11/14/88
 NORTH COORDINATE: UNKNOWN
 EAST COORDINATE: UNKNOWN
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C2 SANDSTONE (TT)
 HYDRAULIC FLOW RELATIONSHIP: CROSS GRADIENT (C)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	02/06/89	0001	MG/L CaCO3		296.		-	-
	09/19/89	0001			428.		-	-
	04/11/90	0001			394.		-	-
	01/18/91	0001			398.		-	-
ALUMINUM	02/06/89	0001	MG/L	<	0.05	J	0.1	-
	09/19/89	0001		<	0.1		0.1	-
	04/11/90	0001		<	0.1		0.1	-
	01/18/91	0001		<	0.05		0.05	-
AMMONIUM	02/06/89	0001	MG/L		0.58		0.1	-
	09/19/89	0001			0.8		0.1	-
	04/11/90	0001		<	0.1		0.1	-
	01/18/91	0001			0.49		0.01	-
ANTIMONY	02/06/89	0001	MG/L		0.004		0.003	-
	09/19/89	0001			0.053		0.003	-
	04/11/90	0001			0.116		0.003	-
	01/18/91	0001		<	0.003		0.003	-
ARSENIC	02/06/89	0001	MG/L	<	0.001	J	0.01	-
	09/19/89	0001		<	0.01		0.01	-
	04/11/90	0001		<	0.01		0.01	-
	01/18/91	0001		<	0.05	I	0.05	-
BARIUM	02/06/89	0001	MG/L		0.02	J	0.1	-
	09/19/89	0001		<	0.1		0.1	-
	04/11/90	0001		<	0.1		0.1	-
	01/18/91	0001			0.01		0.01	-
BERYLLIUM	02/06/89	0001	MG/L	<	0.005		0.005	-
	09/19/89	0001		<	0.01		0.01	-
	04/11/90	0001		<	0.01		0.01	-
	01/18/91	0001		<	0.005		0.005	-
BORON	02/06/89	0001	MG/L		0.64		0.1	-
	09/19/89	0001			0.6		0.1	-
	04/11/90	0001			0.5		0.1	-
	01/18/91	0001			0.49		0.05	-
BROMIDE	02/06/89	0001	MG/L		0.42		0.01	-
	09/19/89	0001			0.2		0.1	-
	04/11/90	0001			0.3	J	0.1	-
	01/18/91	0001			0.3		0.1	-
CADMIUM	02/06/89	0001	MG/L		0.0009	J	0.001	-
	09/19/89	0001			0.004		0.001	-
	04/11/90	0001		<	0.001		0.001	-
	01/18/91	0001		<	0.001		0.001	-
CALCIUM	02/06/89	0001	MG/L		75.		0.01	-
	09/19/89	0001			31.9		0.01	-
	04/11/90	0001			28.2		0.01	-
	01/18/91	0001			30.9		0.5	-
CHLORIDE	02/06/89	0001	MG/L		73.		1.	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:

I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0677 RESERVED ESTORMS, MW, 11/14/88
 NORTH COORDINATE: UNKNOWN
 EAST COORDINATE: UNKNOWN
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C2 SANDSTONE (TT)
 HYDRAULIC FLOW RELATIONSHIP: CROSS GRADIENT (C)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CHLORIDE	09/19/89	0001	MG/L		35.		1.	-
	04/11/90	0001			40.		1.	-
	01/18/91	0001			34.		0.5	-
CHROMIUM	02/06/89	0001	MG/L	<	0.01		0.01	-
	09/19/89	0001		<	0.01		0.01	-
	04/11/90	0001		<	0.01		0.01	-
	01/18/91	0001		<	0.01		0.01	-
COBALT	02/06/89	0001	MG/L	<	0.01	J	0.05	-
	09/19/89	0001		<	0.05		0.05	-
	04/11/90	0001		<	0.05		0.05	-
	01/18/91	0001		<	0.03		0.03	-
COPPER	02/06/89	0001	MG/L	<	0.01	J	0.02	-
	09/19/89	0001		<	0.02		0.02	-
	04/11/90	0001		<	0.02		0.02	-
	01/18/91	0001		<	0.01		0.01	-
CYANIDE	02/06/89	0001	MG/L	<	0.002	J	0.01	-
	09/19/89	0001		<	0.01		0.01	-
	04/11/90	0001		<	0.01		0.01	-
	01/18/91	0001		<	0.01		0.01	-
FLUORIDE	02/06/89	0001	MG/L		1.0		0.1	-
	09/19/89	0001			0.8		0.1	-
	04/11/90	0001			0.8		0.1	-
	01/18/91	0001			0.9		0.1	-
GROSS ALPHA	02/06/89	0001	PCI/L		1.48		1.	17.2
	09/19/89	0001			29.		1.	20.
	04/11/90	0001			13.		1.	15.
	01/18/91	0001			24.2		1.	22.1
GROSS BETA	02/06/89	0001	PCI/L		14.0		0.5	23.0
	09/19/89	0001			22.		0.5	10.
	04/11/90	0001			16.		0.5	13.
	01/18/91	0001			27.2		0.5	16.8
IRON	02/06/89	0001	MG/L	<	0.02	J	0.03	-
	09/19/89	0001		<	0.03		0.03	-
	04/11/90	0001		<	0.03		0.03	-
	01/18/91	0001		<	0.03		0.03	-
LEAD	02/06/89	0001	MG/L	<	0.001	J	0.01	-
	09/19/89	0001			0.05		0.01	-
	04/11/90	0001		<	0.01		0.01	-
	01/18/91	0001		<	0.03	I	0.03	-
LEAD-210	02/06/89	0001	PCI/L		0.00		1.5	0.512
	09/19/89	0001			0.0		1.5	0.6
MAGNESIUM	02/06/89	0001	MG/L		21.		0.001	-
	09/19/89	0001			11.8		0.001	-
	04/11/90	0001			11.3		0.001	-
	01/18/91	0001			11.8		0.1	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:

I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0677 RESERVED ESTORMS, MW, 11/14/88
 NORTH COORDINATE: UNKNOWN
 EAST COORDINATE: UNKNOWN
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C2 SANDSTONE (TT)
 HYDRAULIC FLOW RELATIONSHIP: CROSS GRADIENT (C)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
MANGANESE	02/06/89	0001	MG/L		0.03		0.01	-
	09/19/89	0001			0.11		0.01	-
	04/11/90	0001			0.04		0.01	-
	01/18/91	0001			0.04		0.01	-
MERCURY	02/06/89	0001	MG/L	<	0.0001	J	0.0002	-
	09/19/89	0001		<	0.0002		0.0002	-
	04/11/90	0001		<	0.0002		0.0002	-
	01/18/91	0001		<	0.0002		0.0002	-
MOLYBDENUM	02/06/89	0001	MG/L		0.024		0.01	-
	09/19/89	0001			0.02		0.01	-
	04/11/90	0001		<	0.01		0.01	-
	01/18/91	0001		<	0.01		0.01	-
NET GROSS ALPHA *	02/06/89	0001	PCI/L		-9.50		-	-
	09/19/89	0001			26.53		-	-
	04/11/90	0001			11.01		-	-
	01/18/91	0001			23.86		-	-
NICKEL	02/06/89	0001	MG/L	<	0.02	J	0.04	-
	09/19/89	0001		<	0.04		0.04	-
	04/11/90	0001		<	0.04		0.04	-
	01/18/91	0001		<	0.04		0.04	-
NITRATE	02/06/89	0001	MG/L		4.3		1.	-
	09/19/89	0001		<	1.		1.	-
	04/11/90	0001			6.9		1.	-
	01/18/91	0001			5.8		0.1	-
NITRITE AND NITRATE	04/11/90	0001	MG/L		1.6		1.	-
	01/18/91	0001			1.23		0.05	-
PH	02/06/89	0001	SU		7.85		-	-
	09/19/89	0001			8.07		-	-
	04/11/90	0001			7.87		-	-
	01/18/91	0001			7.83		-	-
PHOSPHATE	02/06/89	0001	MG/L	<	0.1		0.1	-
	09/19/89	0001		<	0.1		0.1	-
	04/11/90	0001		<	0.1		0.1	-
	01/18/91	0001			0.10		0.05	-
POLONIUM-210	02/06/89	0001	PCI/L		0.155		1.	1.18
	09/19/89	0001			0.0		1.	0.3
POTASSIUM	02/06/89	0001	MG/L		9.4		0.01	-
	09/19/89	0001			5.4		0.01	-
	04/11/90	0001			5.4		0.01	-
	01/18/91	0001			3.8		0.01	-
RADIUM-226	02/06/89	0001	PCI/L		1.75		1.	0.279
	09/19/89	0001			5.4		1.	1.4
	04/11/90	0001			3.0		1.	0.6
	01/18/91	0001			1.4		1.	0.6

* NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:

0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:

J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
SITE: AMB01 AMBROSIA LAKE
LOCATION: 0677 RESERVED ESTORMS, MW, 11/14/88
NORTH COORDINATE: UNKNOWN
EAST COORDINATE: UNKNOWN
06/10/80 TO 12/04/92
REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C2 SANDSTONE (TT)
HYDRAULIC FLOW RELATIONSHIP: CROSS GRADIENT (C)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
RADIUM-226 + RADIUM-228	02/06/89	0001	PCI/L		6.45		-	-
	09/19/89	0001			6.20		-	-
	04/11/90	0001			4.50		-	-
	01/18/91	0001			1.90		-	-
RADIUM-228	02/06/89	0001	PCI/L		4.70		1.	9.51
	09/19/89	0001			0.8		1.	0.8
	04/11/90	0001			1.5		1.	0.9
	01/18/91	0001			0.5		1.	1.5
SELENIUM	02/06/89	0001	MG/L		0.006		0.005	-
	09/19/89	0001			0.037		0.005	-
	04/11/90	0001		<	0.005		0.005	-
	01/18/91	0001		<	0.05	I	0.05	-
SILICA - SiO2	02/06/89	0001	MG/L		9.3		2.	-
	09/19/89	0001			9.0		2.	-
	04/11/90	0001			8.		2.	-
	01/18/91	0001			8.5		0.1	-
SILVER	02/06/89	0001	MG/L	<	0.01		0.01	-
	09/19/89	0001		<	0.01		0.01	-
	04/11/90	0001		<	0.01		0.01	-
	01/18/91	0001		<	0.01		0.01	-
SODIUM	02/06/89	0001	MG/L		1030.		0.002	-
	09/19/89	0001			1090.		0.002	-
	04/11/90	0001			1140.		0.002	-
	01/18/91	0001			1270.	J	5.	-
SPECIFIC CONDUCTANCE	02/06/89	0001	UMHO/CM		2600.		-	-
	09/19/89	0001			950.		-	-
	04/11/90	0001			3380.		-	-
	01/18/91	0001			4840.		-	-
STRONTIUM	02/06/89	0001	MG/L		2.60		0.1	-
	09/19/89	0001			2.0		0.1	-
	04/11/90	0001			1.82		0.1	-
	01/18/91	0001			1.91		0.01	-
SULFATE	02/06/89	0001	MG/L		2107.		0.1	-
	09/19/89	0001			2190.		0.1	-
	04/11/90	0001			2160.		0.1	-
	01/18/91	0001			2210.		10.	-
SULFIDE	02/06/89	0001	MG/L	<	0.01	J	0.1	-
	09/19/89	0001		<	0.1		0.1	-
	04/11/90	0001		<	0.1		0.1	-
	01/18/91	0001		<	0.1		0.1	-
TEMPERATURE	02/06/89	0001	C - DEGREE		12.0		-	-
	09/19/89	0001			14.0		-	-
	04/11/90	0001			14.		-	-
	01/18/91	0001			12.8		-	-
THALLIUM	02/06/89	0001	MG/L	<	0.005		0.005	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0677 RESERVED ESTORMS, MW, 11/14/88
 NORTH COORDINATE: UNKNOWN
 EAST COORDINATE: UNKNOWN
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C2 SANDSTONE (TT)
 HYDRAULIC FLOW RELATIONSHIP: CROSS GRADIENT (C)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
THALLIUM	09/19/89	0001	MG/L		0.02		0.01	-
	04/11/90	0001		<	0.01		0.01	-
	01/18/91	0001		<	0.03	I	0.03	-
THORIUM-230	02/06/89	0001	PCI/L		0.285		1.	0.463
	09/19/89	0001			0.1		1.	0.4
TIN	02/06/89	0001	MG/L		0.006		0.005	-
	09/19/89	0001			0.173		0.005	-
	04/11/90	0001			0.090		0.005	-
	01/18/91	0001		<	0.03	I	0.03	-
TOTAL DISSOLVED SOLIDS	02/06/89	0001	MG/L		3372.		10.	-
	09/19/89	0001			3470.		10.	-
	04/11/90	0001			3500.		10.	-
	01/18/91	0001			3600.		10.	-
TOTAL KJELDAHL NITROGEN	01/18/91	0001	MG/L		1.		1.	-
TOTAL ORGANIC CARBON	02/06/89	0001	MG/L		11.		1.	-
	09/19/89	0001			98.		1.	-
	04/11/90	0001			57.		1.	-
	01/18/91	0001			2.		1.	-
URANIUM	02/06/89	0001	MG/L		0.016		0.003	-
	09/19/89	0001			0.0036		0.003	-
	04/11/90	0001			0.0029	J	0.003	-
	01/18/91	0001		<	0.001		0.001	-
VANADIUM	02/06/89	0001	MG/L	<	0.01		0.01	-
	09/19/89	0001		<	0.01		0.01	-
	04/11/90	0001		<	0.01		0.01	-
	01/18/91	0001		<	0.01		0.01	-
ZINC	02/06/89	0001	MG/L		0.02		0.005	-
	09/19/89	0001			0.015		0.005	-
	04/11/90	0001			0.035		0.005	-
	01/18/91	0001			0.008		0.005	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:

I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0678 RESERVED ESTORMS, MW, 11/14/88
 NORTH COORDINATE: UNKNOWN
 EAST COORDINATE: UNKNOWN
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - B SANDSTONE (TB)
 HYDRAULIC FLOW RELATIONSHIP: CROSS GRADIENT (C)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	02/06/89	0001	MG/L CaCO3		525.		-	-
	09/19/89	0001			495.		-	-
	04/11/90	0001			532.		-	-
	01/18/91	0001			535.		-	-
ALUMINUM	02/06/89	0001	MG/L	<	0.01	J	0.1	-
	09/19/89	0001		<	0.1		0.1	-
	04/11/90	0001			0.1		0.1	-
	01/18/91	0001		<	0.05		0.05	-
AMMONIUM	02/06/89	0001	MG/L		3.21		0.1	-
	09/19/89	0001			0.8		0.1	-
	04/11/90	0001			0.6		0.1	-
	01/18/91	0001			0.90		0.01	-
	12/04/92	0001			1.2	J	0.1	-
ANTIMONY	02/06/89	0001	MG/L		0.005		0.003	-
	09/19/89	0001			0.095		0.003	-
	04/11/90	0001			0.171		0.003	-
	01/18/91	0001		<	0.02	I	0.02	-
	12/04/92	0001		<	0.02	I	0.02	-
ARSENIC	02/06/89	0001	MG/L		0.001	J	0.01	-
	09/19/89	0001			0.02		0.01	-
	04/11/90	0001			0.02		0.01	-
	01/18/91	0001		<	0.05	I	0.05	-
BARIUM	02/06/89	0001	MG/L		0.02	J	0.1	-
	09/19/89	0001		<	0.1		0.1	-
	04/11/90	0001		<	0.1		0.1	-
	01/18/91	0001			0.01		0.01	-
BERYLLIUM	02/06/89	0001	MG/L	<	0.005		0.005	-
	09/19/89	0001		<	0.01		0.01	-
	04/11/90	0001		<	0.01		0.01	-
	01/18/91	0001		<	0.005		0.005	-
BORON	02/06/89	0001	MG/L		0.88		0.1	-
	09/19/89	0001			0.4		0.1	-
	04/11/90	0001			0.3		0.1	-
	01/18/91	0001			0.37		0.05	-
BROMIDE	02/06/89	0001	MG/L		0.46		0.01	-
	09/19/89	0001		<	0.1		0.1	-
	04/11/90	0001		<	0.1	J	0.1	-
	01/18/91	0001			5.1		0.1	-
CADMIUM	02/06/89	0001	MG/L		0.0006	J	0.001	-
	09/19/89	0001			0.010		0.001	-
	04/11/90	0001		<	0.001		0.001	-
	01/18/91	0001		<	0.001		0.001	-
	12/04/92	0001			0.0005		0.0001	-
CALCIUM	02/06/89	0001	MG/L		172.		0.01	-
	09/19/89	0001			322.		0.01	-
	04/11/90	0001			292.		0.01	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:

I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0678 RESERVED ESTORMS, MW, 11/14/88
 NORTH COORDINATE: UNKNOWN
 EAST COORDINATE: UNKNOWN
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - B SANDSTONE (TB)
 HYDRAULIC FLOW RELATIONSHIP: CROSS GRADIENT (C)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CALCIUM	01/18/91	0001	MG/L		322.		0.5	-
	12/04/92	0001			392.		0.5	-
CHLORIDE	02/06/89	0001	MG/L		248.		1.	-
	09/19/89	0001			280.		1.	-
	04/11/90	0001			309.		1.	-
	01/18/91	0001			286.		0.5	-
	12/04/92	0001			300.		10.	-
CHROMIUM	02/06/89	0001	MG/L	<	0.01		0.01	-
	09/19/89	0001		<	0.01		0.01	-
	04/11/90	0001		<	0.01		0.01	-
	01/18/91	0001		<	0.01		0.01	-
	12/04/92	0001		<	0.01		0.01	-
COBALT	02/06/89	0001	MG/L		0.01	J	0.05	-
	09/19/89	0001		<	0.05		0.05	-
	04/11/90	0001		<	0.01	J	0.05	-
	01/18/91	0001		<	0.03		0.03	-
	12/04/92	0001		<	0.03		0.03	-
COPPER	02/06/89	0001	MG/L		0.01	J	0.02	-
	09/19/89	0001		<	0.02		0.02	-
	04/11/90	0001		<	0.02		0.02	-
	01/18/91	0001			0.02		0.01	-
CYANIDE	02/06/89	0001	MG/L	<	0.002	J	0.01	-
	09/19/89	0001		<	0.01		0.01	-
	04/11/90	0001		<	0.01		0.01	-
	01/18/91	0001		<	0.01		0.01	-
FLUORIDE	02/06/89	0001	MG/L	<	0.02	J	0.1	-
	09/19/89	0001			0.3		0.1	-
	04/11/90	0001			0.3		0.1	-
	01/18/91	0001			0.2		0.1	-
	12/04/92	0001			0.2		0.1	-
GROSS ALPHA	02/06/89	0001	PCI/L		48.2		1.	31.0
	09/19/89	0001			92.		1.	67.
	04/11/90	0001			130.		1.	80.
	01/18/91	0001			82.9		1.	121.
	12/04/92	0001			45.2		1.0	95.7
GROSS BETA	02/06/89	0001	PCI/L		18.7		0.5	32.0
	09/19/89	0001			77.		0.5	33.
	04/11/90	0001			100.		0.5	60.
	01/18/91	0001			120.		0.5	67.4
	12/04/92	0001			0.0		204.	113.
IRON	02/06/89	0001	MG/L	<	0.02	J	0.03	-
	09/19/89	0001			0.10		0.03	-
	04/11/90	0001			0.09		0.03	-
	01/18/91	0001		<	0.03		0.03	-
	12/04/92	0001		<	0.03		0.03	-
LEAD	02/06/89	0001	MG/L	<	0.001	J	0.01	-
	09/19/89	0001			0.04		0.01	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0678 RESERVED ESTORMS, MW, 11/14/88
 NORTH COORDINATE: UNKNOWN
 EAST COORDINATE: UNKNOWN
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - B SANDSTONE (TB)
 HYDRAULIC FLOW RELATIONSHIP: CROSS GRADIENT (C)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
LEAD	04/11/90	0001	MG/L	<	0.01		0.01	-
	01/18/91	0001		<	0.03	I	0.03	-
LEAD-210	02/06/89	0001	PCI/L		0.00		1.5	11.0
	09/19/89	0001			0.4		1.5	0.6
MAGNESIUM	02/06/89	0001	MG/L		86.		0.001	-
	09/19/89	0001			399.		0.001	-
	04/11/90	0001			374.		0.001	-
	01/18/91	0001			419.		0.5	-
	12/04/92	0001			540.		2.	-
MANGANESE	02/06/89	0001	MG/L		0.12		0.01	-
	09/19/89	0001			0.12		0.01	-
	04/11/90	0001			0.10		0.01	-
	01/18/91	0001			0.08		0.01	-
MERCURY	02/06/89	0001	MG/L	<	0.0001	J	0.0002	-
	09/19/89	0001		<	0.0002		0.0002	-
	04/11/90	0001		<	0.0002		0.0002	-
	01/18/91	0001		<	0.0002		0.0002	-
MOLYBDENUM	02/06/89	0001	MG/L		0.016		0.01	-
	09/19/89	0001			0.05		0.01	-
	04/11/90	0001			0.03		0.01	-
	01/18/91	0001			0.02		0.01	-
	12/04/92	0001			0.05		0.01	-
NET GROSS ALPHA *	02/06/89	0001	PCI/L		28.31		-	-
	09/19/89	0001			66.62		-	-
	04/11/90	0001			127.46		-	-
	01/18/91	0001			57.52		-	-
	12/04/92	0001			6.10		-	-
NICKEL	02/06/89	0001	MG/L		0.04		0.04	-
	09/19/89	0001			0.08		0.04	-
	04/11/90	0001			0.05		0.04	-
	01/18/91	0001			0.04		0.04	-
	12/04/92	0001			0.29		0.04	-
NITRATE	02/06/89	0001	MG/L		246.		1.	-
	09/19/89	0001			2100.		1.	-
	04/11/90	0001			2210.		1.	-
	01/18/91	0001			2400.		0.1	-
	12/04/92	0001			3410.		300.	-
NITRITE AND NITRATE	04/11/90	0001	MG/L		499.		1.	-
	01/18/91	0001			54.8		0.05	-
PH	02/06/89	0001	SU		7.71		-	-
	09/19/89	0001			7.23		-	-
	04/11/90	0001			7.23		-	-
	01/18/91	0001			7.57		-	-
	12/04/92	0001			7.23		-	-

* NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:

I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0678 RESERVED ESTORMS, MW, 11/14/88
 NORTH COORDINATE: UNKNOWN
 EAST COORDINATE: UNKNOWN
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - B SANDSTONE (TB)
 HYDRAULIC FLOW RELATIONSHIP: CROSS GRADIENT (C)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
PHOSPHATE	02/06/89	0001	MG/L	<	0.1		0.1	-
	09/19/89	0001		<	0.1		0.1	-
	04/11/90	0001		<	0.1		0.1	-
	01/18/91	0001			0.08		0.05	-
	12/04/92	0001		<	0.1	H	0.1	-
POLONIUM-210	02/06/89	0001	PCI/L		2.17		1.	1.61
	09/19/89	0001			0.2		1.	0.4
POTASSIUM	02/06/89	0001	MG/L		23.2		0.01	-
	09/19/89	0001			29.3		0.01	-
	04/11/90	0001			32.8		0.01	-
	01/18/91	0001			21.		5.	-
	12/04/92	0001			24.		5.	-
RADIUM-226	02/06/89	0001	PCI/L		1.71		1.	0.257
	09/19/89	0001			1.1		1.	0.4
	04/11/90	0001			0.5		1.	0.3
	01/18/91	0001			3.0		1.	0.8
	12/04/92	0001			2.4		0.3	0.6
RADIUM-226 + RADIUM-228	02/06/89	0001	PCI/L		4.63		-	-
	09/19/89	0001			4.80		-	-
	04/11/90	0001			6.10		-	-
	01/18/91	0001			3.90		-	-
	12/04/92	0001			9.80		-	-
RADIUM-228	02/06/89	0001	PCI/L		2.92		1.	8.08
	09/19/89	0001			3.7		1.	1.0
	04/11/90	0001			5.6		1.	1.1
	01/18/91	0001			0.9		1.	1.6
	12/04/92	0001			7.4	H	1.0	2.0
SELENIUM	02/06/89	0001	MG/L		0.011		0.005	-
	09/19/89	0001			0.212		0.005	-
	04/11/90	0001			0.100		0.005	-
	01/18/91	0001			0.250		0.005	-
	12/04/92	0001			0.7		0.1	-
SILICA - SiO2	02/06/89	0001	MG/L		9.4		2.	-
	09/19/89	0001			6.		2.	-
	04/11/90	0001			5.		2.	-
	01/18/91	0001			4.5		0.1	-
SILVER	02/06/89	0001	MG/L	<	0.01		0.01	-
	09/19/89	0001		<	0.01		0.01	-
	04/11/90	0001		<	0.01		0.01	-
	01/18/91	0001		<	0.01		0.01	-
	12/04/92	0001		<	0.01		0.01	-
SODIUM	02/06/89	0001	MG/L		1320.		0.002	-
	09/19/89	0001			2850.		0.002	-
	04/11/90	0001			2980.		0.002	-
	01/18/91	0001			3290.	J	5.	-
	12/04/92	0001			3450.		20.	-
SPECIFIC CONDUCTANCE	02/06/89	0001	UMHO/CM		3700.		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
 H - HOLD TIME EXPIRED, VALUE SUSPECT
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0678 RESERVED ESTORMS, MW, 11/14/88
 NORTH COORDINATE: UNKNOWN
 EAST COORDINATE: UNKNOWN
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - B SANDSTONE (TB)
 HYDRAULIC FLOW RELATIONSHIP: CROSS GRADIENT (C)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SPECIFIC CONDUCTANCE	09/19/89	0001	UMHO/CM		900.		-	-
	04/11/90	0001			9100.		-	-
	01/18/91	0001			10000.		-	-
	12/04/92	0001			12100		-	-
STRONTIUM	02/06/89	0001	MG/L		8.40		0.1	-
	09/19/89	0001			16.5		0.1	-
	04/11/90	0001			13.2		0.1	-
	01/18/91	0001			12.4		0.01	-
SULFATE	02/06/89	0001	MG/L		2638.		0.1	-
	09/19/89	0001			6240.		0.1	-
	04/11/90	0001			6540.		0.1	-
	01/18/91	0001			6530.		10.	-
	12/04/92	0001			6690.		10.	-
SULFIDE	02/06/89	0001	MG/L	<	0.01	J	0.1	-
	09/19/89	0001		<	0.1		0.1	-
	04/11/90	0001		<	0.1		0.1	-
	01/18/91	0001		<	0.1		0.1	-
TEMPERATURE	02/06/89	0001	C - DEGREE		12.0		-	-
	09/19/89	0001			16.0		-	-
	04/11/90	0001			14.5		-	-
	01/18/91	0001			12.2		-	-
	12/04/92	0001			12.8		-	-
THALLIUM	02/06/89	0001	MG/L	<	0.005		0.005	-
	09/19/89	0001			0.02		0.01	-
	04/11/90	0001			0.01		0.01	-
	01/18/91	0001		<	0.03	I	0.03	-
THORIUM-230	02/06/89	0001	PCI/L		0.731		1.	0.375
	09/19/89	0001			0.1		1.	0.4
TIN	02/06/89	0001	MG/L	<	0.001	J	0.005	-
	09/19/89	0001			0.435		0.005	-
	04/11/90	0001			0.134		0.005	-
	01/18/91	0001		<	0.03	I	0.03	-
TOTAL DISSOLVED SOLIDS	02/06/89	0001	MG/L		4702.		10.	-
	09/19/89	0001			12300.		10.	-
	04/11/90	0001			12900.		10.	-
	01/18/91	0001			10800.		10.	-
	12/04/92	0001			15300.		10.	-
TOTAL KJELDAHL NITROGEN	01/18/91	0001	MG/L	<	1.		1.	-
	12/04/92	0001			8.		1.	-
TOTAL ORGANIC CARBON	02/06/89	0001	MG/L		86.		1.	-
	09/19/89	0001			170.		1.	-
	04/11/90	0001			194.		1.	-
	01/18/91	0001			81		1.	-
	12/04/92	0001			74.	H	1.	-
URANIUM	02/06/89	0001	MG/L		0.029		0.003	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:

H - HOLD TIME EXPIRED, VALUE SUSPECT
 I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0678 RESERVED ESTORMS, MW, 11/14/88
 NORTH COORDINATE: UNKNOWN
 EAST COORDINATE: UNKNOWN
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - B SANDSTONE (TB)
 HYDRAULIC FLOW RELATIONSHIP: CROSS GRADIENT (C)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
URANIUM	09/19/89	0001	MG/L		0.037		0.003	-
	04/11/90	0001			0.0037		0.003	-
	01/18/91	0001			0.037		0.001	-
	12/04/92	0001			0.057		0.001	-
VANADIUM	02/06/89	0001	MG/L	<	0.01		0.01	-
	09/19/89	0001		<	0.01		0.01	-
	04/11/90	0001		<	0.01		0.01	-
	01/18/91	0001		<	0.01		0.01	-
	12/04/92	0001		<	0.01		0.01	-
ZINC	02/06/89	0001	MG/L		0.02		0.005	-
	09/19/89	0001			0.006		0.005	-
	04/11/90	0001			3.79		0.005	-
	01/18/91	0001		<	0.005		0.005	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0679 RESERVED ESTORMS, MW, 11/14/88
 NORTH COORDINATE: UNKNOWN
 EAST COORDINATE: UNKNOWN
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS-A SANDSTONE (TR)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	02/03/89	0001	MG/L CAC03		2995.		-	-
ALUMINUM	02/03/89	0001	MG/L		16.1		0.1	-
AMMONIUM	02/03/89	0001	MG/L		0.40		0.1	-
ANTIMONY	02/03/89	0001	MG/L		0.003		0.003	-
ARSENIC	02/03/89	0001	MG/L		0.037		0.01	-
BARIUM	02/03/89	0001	MG/L		0.09	J	0.1	-
BERYLLIUM	02/03/89	0001	MG/L		0.019		0.005	-
BORON	02/03/89	0001	MG/L		0.32		0.1	-
BROMIDE	02/03/89	0001	MG/L		1.04		0.01	-
CADMIUM	02/03/89	0001	MG/L		0.0019		0.001	-
CALCIUM	02/03/89	0001	MG/L		129.		0.01	-
CHLORIDE	02/03/89	0001	MG/L		139.		1.	-
CHROMIUM	02/03/89	0001	MG/L		0.02		0.01	-
COBALT	02/03/89	0001	MG/L		0.07		0.05	-
COPPER	02/03/89	0001	MG/L		0.08		0.02	-
CYANIDE	02/03/89	0001	MG/L		0.006	J	0.01	-
FLUORIDE	02/03/89	0001	MG/L		0.6		0.1	-
GROSS ALPHA	02/03/89	0001	PCI/L		74.1		1.	58.9
GROSS BETA	02/03/89	0001	PCI/L		12.1		0.5	52.9
IRON	02/03/89	0001	MG/L		62.		0.03	-
LEAD	02/03/89	0001	MG/L		0.135		0.01	-
LEAD-210	02/03/89	0001	PCI/L		43.9		1.5	17.9
MAGNESIUM	02/03/89	0001	MG/L		520.		0.001	-
MANGANESE	02/03/89	0001	MG/L		6.60		0.01	-
MERCURY	02/03/89	0001	MG/L	<	0.0001	J	0.0002	-
MOLYBDENUM	02/03/89	0001	MG/L		0.002	J	0.01	-
NET GROSS ALPHA *	02/03/89	0001	PCI/L		45.29		-	-
NICKEL	02/03/89	0001	MG/L		0.09		0.04	-

* NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0679 RESERVED ESTORMS, MW, 11/14/88
 NORTH COORDINATE: UNKNOWN
 EAST COORDINATE: UNKNOWN
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS-A SANDSTONE (TR)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
NITRATE	02/03/89	0001	MG/L		730.		1.	-
PH	02/03/89	0001	SU		8.08		-	-
PHOSPHATE	02/03/89	0001	MG/L	<	0.1		0.1	-
POLONIUM-210	02/03/89	0001	PCI/L		0.932		1.	1.36
POTASSIUM	02/03/89	0001	MG/L		19.5		0.01	-
RADIUM-226	02/03/89	0001	PCI/L		5.09		1.	1.30
RADIUM-226 + RADIUM-228	02/03/89	0001	PCI/L		13.80		-	-
RADIUM-228	02/03/89	0001	PCI/L		8.71		1.	9.09
SELENIUM	02/03/89	0001	MG/L		0.004	J	0.005	-
SILICA - SiO2	02/03/89	0001	MG/L		5.0		2.	-
SILVER	02/03/89	0001	MG/L	<	0.01		0.01	-
SODIUM	02/03/89	0001	MG/L		2400.		0.002	-
SPECIFIC CONDUCTANCE	02/03/89	0001	UMHO/CM		4000.		-	-
STRONTIUM	02/03/89	0001	MG/L		18.6		0.1	-
SULFATE	02/03/89	0001	MG/L		3935.		0.1	-
SULFIDE	02/03/89	0001	MG/L		0.04	J	0.1	-
TEMPERATURE	02/03/89	0001	C - DEGREE		10.5		-	-
THALLIUM	02/03/89	0001	MG/L	<	0.005		0.005	-
THORIUM-230	02/03/89	0001	PCI/L		23.8		1.	2.80
TIN	02/03/89	0001	MG/L	<	0.001	J	0.005	-
TOTAL DISSOLVED SOLIDS	02/03/89	0001	MG/L		6778.		10.	-
TOTAL ORGANIC CARBON	02/03/89	0001	MG/L		430.		1.	-
URANIUM	02/03/89	0001	MG/L		0.042		0.003	-
VANADIUM	02/03/89	0001	MG/L		0.03		0.01	-
ZINC	02/03/89	0001	MG/L		0.60		0.005	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0680 RESERVED ESTORMS, MW, 11/14/88
 NORTH COORDINATE: UNKNOWN
 EAST COORDINATE: UNKNOWN
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: DAKOTA SANDSTONE (KD)
 HYDRAULIC FLOW RELATIONSHIP: UPGRADIENT (U)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	02/03/89	0001	MG/L CaCO3		322.		-	-
	09/19/89	0001			359.		-	-
	04/11/90	0001			354.		-	-
	01/15/91	0001			344.		-	-
	12/03/92	0001			329		-	-
ALUMINUM	02/03/89	0001	MG/L		0.15		0.1	-
	09/19/89	0001		<	0.1		0.1	-
	04/11/90	0001		<	0.1		0.1	-
	01/15/91	0001		<	0.05		0.05	-
AMMONIUM	02/03/89	0001	MG/L		0.13		0.1	-
	09/19/89	0001		<	0.1		0.1	-
	04/11/90	0001		<	0.1		0.1	-
	01/15/91	0001			0.27		0.01	-
	12/03/92	0001			0.2	J	0.1	-
ANTIMONY	02/03/89	0001	MG/L		0.003		0.003	-
	09/19/89	0001			0.007		0.003	-
	04/11/90	0001			0.021		0.003	-
	01/15/91	0001		<	0.003		0.003	-
	12/03/92	0001		<	0.003		0.003	-
ARSENIC	02/03/89	0001	MG/L		0.005	J	0.01	-
	09/19/89	0001			0.02		0.01	-
	04/11/90	0001		<	0.01		0.01	-
	01/15/91	0001		<	0.03	I	0.03	-
BARIUM	02/03/89	0001	MG/L		0.02	J	0.1	-
	09/19/89	0001		<	0.1		0.1	-
	04/11/90	0001		<	0.1		0.1	-
	01/15/91	0001			0.01		0.01	-
BERYLLIUM	02/03/89	0001	MG/L	<	0.005		0.005	-
	09/19/89	0001		<	0.01		0.01	-
	04/11/90	0001		<	0.01		0.01	-
	01/15/91	0001		<	0.005		0.005	-
BORON	02/03/89	0001	MG/L		0.77		0.1	-
	09/19/89	0001			0.2		0.1	-
	04/11/90	0001			0.1		0.1	-
	01/15/91	0001			0.18		0.05	-
BROMIDE	02/03/89	0001	MG/L		0.67		0.01	-
	09/19/89	0001			0.2		0.1	-
	04/11/90	0001			0.9	J	0.1	-
	01/15/91	0001			0.6		0.1	-
CADMIUM	02/03/89	0001	MG/L		0.0006	J	0.001	-
	09/19/89	0001			0.002		0.001	-
	04/11/90	0001		<	0.001		0.001	-
	01/15/91	0001		<	0.001		0.001	-
	12/03/92	0001		<	0.001		0.001	-
CALCIUM	02/03/89	0001	MG/L		317.		0.01	-
	09/19/89	0001			587.		0.01	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
 I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0680 RESERVED ESTORMS, MW, 11/14/88
 NORTH COORDINATE: UNKNOWN
 EAST COORDINATE: UNKNOWN
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: DAKOTA SANDSTONE (KD)
 HYDRAULIC FLOW RELATIONSHIP: UPGRADIENT (U)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CALCIUM	04/11/90	0001	MG/L		529.		0.01	-
	01/15/91	0001			595.		0.01	-
	12/03/92	0001			600.		2.	-
CHLORIDE	02/03/89	0001	MG/L		178.		1.	-
	09/19/89	0001			61.		1.	-
	04/11/90	0001			73.		1.	-
	01/15/91	0001			69.		0.5	-
	12/03/92	0001			80.		5.	-
CHROMIUM	02/03/89	0001	MG/L	<	0.01		0.01	-
	09/19/89	0001		<	0.01		0.01	-
	04/11/90	0001		<	0.01		0.01	-
	01/15/91	0001		<	0.01		0.01	-
	12/03/92	0001		<	0.01		0.01	-
COBALT	02/03/89	0001	MG/L		0.01	J	0.05	-
	09/19/89	0001		<	0.05		0.05	-
	04/11/90	0001		<	0.05		0.05	-
	01/15/91	0001		<	0.03		0.03	-
	12/03/92	0001		<	0.03		0.03	-
COPPER	02/03/89	0001	MG/L		0.02		0.02	-
	09/19/89	0001		<	0.02		0.02	-
	04/11/90	0001		<	0.02		0.02	-
	01/15/91	0001		<	0.01		0.01	-
CYANIDE	02/03/89	0001	MG/L	<	0.002	J	0.01	-
	09/19/89	0001		<	0.01		0.01	-
	04/11/90	0001		<	0.01		0.01	-
	01/15/91	0001		<	0.01		0.01	-
FLUORIDE	02/03/89	0001	MG/L		0.6		0.1	-
	09/19/89	0001			0.2		0.1	-
	04/11/90	0001			0.2		0.1	-
	01/15/91	0001			0.1		0.1	-
	12/03/92	0001			0.3		0.1	-
GROSS ALPHA	02/03/89	0001	PCI/L		15.6		1.	20.0
	09/19/89	0001			12.		1.	20.
	04/11/90	0001			29.		1.	18.
	01/15/91	0001			0.0		1.	28.5
	12/03/92	0001			25.0		1.0	30.5
GROSS BETA	02/03/89	0001	PCI/L		33.2		0.5	24.2
	09/19/89	0001			33.		0.5	11.
	04/11/90	0001			30.		0.5	14.
	01/15/91	0001			22.8		0.5	18.4
	12/03/92	0001			0.0		50.3	28.4
IRON	02/03/89	0001	MG/L		1.61		0.03	-
	09/19/89	0001			2.15		0.03	-
	04/11/90	0001			2.23		0.03	-
	01/15/91	0001			2.31		0.03	-
	12/03/92	0001			1.82		0.03	-
LEAD	02/03/89	0001	MG/L		0.010		0.01	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0680 RESERVED ESTORMS, MW, 11/14/88
 NORTH COORDINATE: UNKNOWN
 EAST COORDINATE: UNKNOWN
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: DAKOTA SANDSTONE (KD)
 HYDRAULIC FLOW RELATIONSHIP: UPGRADIENT (U)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
LEAD	09/19/89	0001	MG/L		0.01		0.01	-
	04/11/90	0001		<	0.01		0.01	-
	01/15/91	0001		<	0.03	I	0.03	-
LEAD-210	02/03/89	0001	PCI/L		0.00		1.5	6.25
	09/19/89	0001			0.0		1.5	0.8
MAGNESIUM	02/03/89	0001	MG/L		84.		0.001	-
	09/19/89	0001			212.		0.001	-
	04/11/90	0001			210.		0.001	-
	01/15/91	0001			222.		0.5	-
	12/03/92	0001			213.		0.5	-
MANGANESE	02/03/89	0001	MG/L		0.51		0.01	-
	09/19/89	0001			1.35		0.01	-
	04/11/90	0001			1.35		0.01	-
	01/15/91	0001			1.22		0.01	-
MERCURY	02/03/89	0001	MG/L		0.0001	J	0.0002	-
	09/19/89	0001		<	0.0002		0.0002	-
	04/11/90	0001		<	0.0002		0.0002	-
	01/15/91	0001		<	0.0002		0.0002	-
MOLYBDENUM	02/03/89	0001	MG/L		0.058		0.01	-
	09/19/89	0001			0.12		0.01	-
	04/11/90	0001			0.10		0.01	-
	01/15/91	0001			0.09		0.01	-
	12/03/92	0001			0.08		0.01	-
NET GROSS ALPHA *	02/03/89	0001	PCI/L		-0.18		-	-
	09/19/89	0001			10.63		-	-
	04/11/90	0001			27.90		-	-
	01/15/91	0001			-0.34		-	-
	12/03/92	0001			24.31		-	-
NICKEL	02/03/89	0001	MG/L	<	0.02	J	0.04	-
	09/19/89	0001		<	0.04		0.04	-
	04/11/90	0001		<	0.04		0.04	-
	01/15/91	0001		<	0.04		0.04	-
	12/03/92	0001			0.10		0.04	-
NITRATE	02/03/89	0001	MG/L		6.78		1.	-
	09/19/89	0001		<	1.		1.	-
	04/11/90	0001			0.8	J	1.	-
	01/15/91	0001			4.4		0.1	-
	12/03/92	0001		<	1.0		1.0	-
NITRITE AND NITRATE	04/11/90	0001	MG/L		0.2	J	1.	-
	01/15/91	0001			0.94		0.05	-
PH	02/03/89	0001	SU		7.12		-	-
	09/19/89	0001			6.59		-	-
	04/11/90	0001			6.53		-	-
	01/15/91	0001			6.9		-	-

• NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:

0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:

I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0680 RESERVED ESTORMS, MW, 11/14/88
 NORTH COORDINATE: UNKNOWN
 EAST COORDINATE: UNKNOWN
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: DAKOTA SANDSTONE (KD)
 HYDRAULIC FLOW RELATIONSHIP: UPGRADIENT (U)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
PH	12/03/92	0001	SU		6.74		-	-
PHOSPHATE	02/03/89	0001	MG/L	<	0.1		0.1	-
	09/19/89	0001		<	0.1		0.1	-
	04/11/90	0001		<	0.1		0.1	-
	01/15/91	0001			0.23		0.05	-
	12/03/92	0001			0.3		0.1	-
POLONIUM-210	02/03/89	0001	PCI/L		0.466		1.	1.26
	09/19/89	0001			0.3		1.	0.4
POTASSIUM	02/03/89	0001	MG/L		22.6		0.01	-
	09/19/89	0001			9.8		0.01	-
	04/11/90	0001			10.9		0.01	-
	01/15/91	0001			8.3		0.01	-
	12/03/92	0001			8.75		0.01	-
RADIUM-226	02/03/89	0001	PCI/L		2.60		1.	0.351
	09/19/89	0001			1.5		1.	0.4
	04/11/90	0001			0.9		1.	0.3
	01/15/91	0001			3.5		1.	0.9
	12/03/92	0001			2.2		0.3	0.6
RADIUM-226 + RADIUM-228	02/03/89	0001	PCI/L		3.82		-	-
	09/19/89	0001			4.10		-	-
	04/11/90	0001			4.50		-	-
	01/15/91	0001			6.40		-	-
	12/03/92	0001			5.30		-	-
RADIUM-228	02/03/89	0001	PCI/L		1.22		1.	8.64
	09/19/89	0001			2.6		1.	1.2
	04/11/90	0001			3.6		1.	1.0
	01/15/91	0001			2.9		1.	1.8
	12/03/92	0001			3.1	H	1.0	1.7
SELENIUM	02/03/89	0001	MG/L	<	0.001	J	0.005	-
	09/19/89	0001			0.018		0.005	-
	04/11/90	0001		<	0.005		0.005	-
	01/15/91	0001		<	0.05	I	0.05	-
	12/03/92	0001		<	0.05	I	0.05	-
SILICA - SiO2	02/03/89	0001	MG/L		14.2		2.	-
	09/19/89	0001			21.		2.	-
	04/11/90	0001			20.		2.	-
	01/15/91	0001			20.1		0.1	-
SILVER	02/03/89	0001	MG/L	<	0.01		0.01	-
	09/19/89	0001			0.01		0.01	-
	04/11/90	0001		<	0.01		0.01	-
	01/15/91	0001		<	0.01		0.01	-
	12/03/92	0001		<	0.01		0.01	-
SODIUM	02/03/89	0001	MG/L		515.		0.002	-
	09/19/89	0001			309.		0.002	-
	04/11/90	0001			374.		0.002	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:

0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:

H - HOLD TIME EXPIRED, VALUE SUSPECT

I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0680 RESERVED ESTORMS, MW, 11/14/88
 NORTH COORDINATE: UNKNOWN
 EAST COORDINATE: UNKNOWN
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: DAKOTA SANDSTONE (KD)
 HYDRAULIC FLOW RELATIONSHIP: UPGRADIENT (U)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SODIUM	01/15/91	0001	MG/L		332.	J	5.	-
	12/03/92	0001			308.		5.	-
SPECIFIC CONDUCTANCE	02/03/89	0001	UMHO/CM		2000.		-	-
	09/19/89	0001			700.		-	-
	04/11/90	0001			2850.		-	-
	01/15/91	0001			3050.		-	-
	12/03/92	0001			3200		-	-
STRONTIUM	02/03/89	0001	MG/L		5.60		0.1	-
	09/19/89	0001			5.7		0.1	-
	04/11/90	0001			5.58		0.1	-
	01/15/91	0001			5.50		0.01	-
SULFATE	02/03/89	0001	MG/L		1862.		0.1	-
	09/19/89	0001			2600.		0.1	-
	04/11/90	0001			2630.		0.1	-
	01/15/91	0001			2430.		10.	-
	12/03/92	0001			2390.		10.	-
SULFIDE	02/03/89	0001	MG/L	<	0.01	J	0.1	-
	09/19/89	0001		<	0.1		0.1	-
	04/11/90	0001		<	0.1		0.1	-
	01/15/91	0001		<	0.1		0.1	-
TEMPERATURE	02/03/89	0001	C - DEGREE		11.0		-	-
	09/19/89	0001			16.0		-	-
	04/11/90	0001			14.5		-	-
	01/15/91	0001			13.		-	-
	12/03/92	0001			13.4		-	-
THALLIUM	02/03/89	0001	MG/L	<	0.005		0.005	-
	09/19/89	0001		<	0.01		0.01	-
	04/11/90	0001		<	0.01		0.01	-
	01/15/91	0001		<	0.03	I	0.03	-
THORIUM-230	02/03/89	0001	PCI/L		1.96		1.	0.716
	09/19/89	0001			0.0		1.	0.2
TIN	02/03/89	0001	MG/L	<	0.001	J	0.005	-
	09/19/89	0001		<	0.1		0.1	-
	04/11/90	0001		<	0.005		0.005	-
	01/15/91	0001		<	0.03	I	0.03	-
TOTAL DISSOLVED SOLIDS	02/03/89	0001	MG/L		3234.		10.	-
	09/19/89	0001			4050.		10.	-
	04/11/90	0001			4060.		10.	-
	01/15/91	0001			5570.		10.	-
	12/03/92	0001			4140.		10.	-
TOTAL KJELDAHL NITROGEN	01/15/91	0001	MG/L		1.		1.	-
	12/03/92	0001			1.		1.	-
TOTAL ORGANIC CARBON	02/03/89	0001	MG/L		27.		1.	-
	09/19/89	0001			99.0		1.	-
	04/11/90	0001			49.		1.	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
 I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0680 RESERVED ESTORMS, MW, 11/14/88
 NORTH COORDINATE: UNKNOWN
 EAST COORDINATE: UNKNOWN
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: DAKOTA SANDSTONE (KD)
 HYDRAULIC FLOW RELATIONSHIP: UPGRADIENT (U)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TOTAL ORGANIC CARBON	01/15/91	0001	MG/L		4.		1.	-
	12/03/92	0001			8.	H	1.	-
URANIUM	02/03/89	0001	MG/L		0.023		0.003	-
	09/19/89	0001			0.0020	J	0.003	-
	04/11/90	0001			0.0016	J	0.003	-
	01/15/91	0001		<	0.001		0.001	-
	12/03/92	0001			0.001		0.001	-
VANADIUM	02/03/89	0001	MG/L	<	0.01		0.01	-
	09/19/89	0001		<	0.01		0.01	-
	04/11/90	0001		<	0.01		0.01	-
	01/15/91	0001		<	0.01		0.01	-
	12/03/92	0001		<	0.01		0.01	-
ZINC	02/03/89	0001	MG/L		0.06		0.005	-
	09/19/89	0001		<	0.005		0.005	-
	04/11/90	0001		<	0.005		0.005	-
	01/15/91	0001		<	0.005		0.005	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:

0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:

H - HOLD TIME EXPIRED, VALUE SUSPECT

J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0681 RESERVED ESTORMS, MW, 11/14/88
 NORTH COORDINATE: UNKNOWN
 EAST COORDINATE: UNKNOWN
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - B SANDSTONE (TB)
 HYDRAULIC FLOW RELATIONSHIP: CROSS GRADIENT (C)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	02/02/89	0001	MG/L CaCO3		363.		-	-
	09/19/89	0001			329.		-	-
	04/06/90	0001			307.		-	-
	01/09/91	0001			309.		-	-
	12/04/92	0001			283.		-	-
ALUMINUM	02/02/89	0001	MG/L	<	0.05	J	0.1	-
	09/19/89	0001		<	0.1		0.1	-
	04/06/90	0001			0.1		0.1	-
	01/09/91	0001		<	0.05		0.05	-
AMMONIUM	02/02/89	0001	MG/L		0.50		0.1	-
	09/19/89	0001		<	0.1		0.1	-
	04/06/90	0001		<	0.1		0.1	-
	01/09/91	0001			0.40		0.01	-
	12/04/92	0001			0.3	J	0.1	-
ANTIMONY	02/02/89	0001	MG/L		0.019		0.003	-
	09/19/89	0001			0.029		0.003	-
	04/06/90	0001			0.077		0.003	-
	01/09/91	0001			0.005		0.003	-
	12/04/92	0001		<	0.003		0.003	-
ARSENIC	02/02/89	0001	MG/L		0.003	J	0.01	-
	09/19/89	0001		<	0.01		0.01	-
	04/06/90	0001		<	0.01		0.01	-
	01/09/91	0001		<	0.03	I	0.03	-
BARIUM	02/02/89	0001	MG/L		0.02	J	0.1	-
	09/19/89	0001		<	0.1		0.1	-
	04/06/90	0001		<	0.1		0.1	-
	01/09/91	0001		<	0.01		0.01	-
BERYLLIUM	02/02/89	0001	MG/L	<	0.005		0.005	-
	09/19/89	0001		<	0.01		0.01	-
	04/06/90	0001		<	0.01		0.01	-
	01/09/91	0001		<	0.005		0.005	-
BORON	02/02/89	0001	MG/L		0.47		0.1	-
	09/19/89	0001			0.3		0.1	-
	04/06/90	0001			0.2		0.1	-
	01/09/91	0001			0.25		0.05	-
BROMIDE	02/02/89	0001	MG/L		0.33		0.01	-
	09/19/89	0001		<	0.1		0.1	-
	04/06/90	0001			0.4	J	0.1	-
	01/09/91	0001			0.2		0.1	-
CADMIUM	02/02/89	0001	MG/L		0.0001	J	0.001	-
	09/19/89	0001			0.002		0.001	-
	04/06/90	0001		<	0.001		0.001	-
	01/09/91	0001		<	0.001		0.001	-
	12/04/92	0001		<	0.001		0.001	-
CALCIUM	02/02/89	0001	MG/L		26.		0.01	-
	09/19/89	0001			7113.		0.01	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:

I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0681 RESERVED ESTORMS, MW, 11/14/88
 NORTH COORDINATE: UNKNOWN
 EAST COORDINATE: UNKNOWN
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - B SANDSTONE (TB)
 HYDRAULIC FLOW RELATIONSHIP: CROSS GRADIENT (C)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CALCIUM	04/06/90	0001	MG/L		6.22		0.01	-
	01/09/91	0001			6.1		0.1	-
	12/04/92	0001			6.2		0.1	-
CHLORIDE	02/02/89	0001	MG/L		72.		1.	-
	09/19/89	0001			15.		1.	-
	04/06/90	0001			19.		1.	-
	01/09/91	0001			13.6		0.5	-
	12/04/92	0001			12.9		0.5	-
CHROMIUM	02/02/89	0001	MG/L	<	0.01		0.01	-
	09/19/89	0001		<	0.01		0.01	-
	04/06/90	0001		<	0.01		0.01	-
	01/09/91	0001		<	0.01		0.01	-
	12/04/92	0001		<	0.01		0.01	-
COBALT	02/02/89	0001	MG/L	<	0.01	J	0.05	-
	09/19/89	0001		<	0.05		0.05	-
	04/06/90	0001		<	0.05		0.05	-
	01/09/91	0001		<	0.03		0.03	-
	12/04/92	0001		<	0.03		0.03	-
COPPER	02/02/89	0001	MG/L		0.01	J	0.02	-
	09/19/89	0001		<	0.02		0.02	-
	04/06/90	0001		<	0.02		0.02	-
	01/09/91	0001		<	0.01		0.01	-
CYANIDE	02/02/89	0001	MG/L	<	0.002	J	0.01	-
	09/19/89	0001		<	0.01		0.01	-
	04/06/90	0001		<	0.01		0.01	-
	01/09/91	0001		<	0.01		0.01	-
FLUORIDE	02/02/89	0001	MG/L		0.9		0.1	-
	09/19/89	0001			0.8		0.1	-
	04/06/90	0001			0.8		0.1	-
	01/09/91	0001			0.8		0.1	-
	12/04/92	0001			0.8		0.1	-
GROSS ALPHA	02/02/89	0001	PCI/L		14.6		1.	16.2
	09/19/89	0001			9.4		1.	9.7
	04/06/90	0001			29.		1.	11.
	01/09/91	0001			41.6		1.	18.2
	12/04/92	0001			0.0		1.0	10.9
GROSS BETA	02/02/89	0001	PCI/L		4.37		0.5	21.4
	09/19/89	0001			11.		0.5	5.
	04/06/90	0001			9.7		0.5	6.5
	01/09/91	0001			32.0		0.5	8.8
	12/04/92	0001			9.5		23.1	14.2
IRON	02/02/89	0001	MG/L	<	0.02	J	0.03	-
	09/19/89	0001		<	0.03		0.03	-
	04/06/90	0001			0.04		0.03	-
	01/09/91	0001		<	0.03		0.03	-
	12/04/92	0001		<	0.03		0.03	-
LEAD	02/02/89	0001	MG/L	<	0.001	J	0.01	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0681 RESERVED ESTORMS, MW, 11/14/88
 NORTH COORDINATE: UNKNOWN
 EAST COORDINATE: UNKNOWN
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - B SANDSTONE (TB)
 HYDRAULIC FLOW RELATIONSHIP: CROSS GRADIENT (C)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
LEAD	09/19/89	0001	MG/L		0.03		0.01	-
	04/06/90	0001		<	0.01		0.01	-
	01/09/91	0001		<	0.03	I	0.03	-
LEAD-210	02/02/89	0001	PCI/L		0.00		1.5	8.54
	09/19/89	0001			0.4		1.5	0.7
MAGNESIUM	02/02/89	0001	MG/L		7.		0.001	-
	09/19/89	0001			2.66		0.001	-
	04/06/90	0001			2.18		0.001	-
	01/09/91	0001			2.0		0.1	-
	12/04/92	0001			2.0		0.1	-
MANGANESE	02/02/89	0001	MG/L		0.03		0.01	-
	09/19/89	0001			0.02		0.01	-
	04/06/90	0001			0.02		0.01	-
	01/09/91	0001			0.02		0.01	-
MERCURY	02/02/89	0001	MG/L	<	0.0001	J	0.0002	-
	09/19/89	0001		<	0.0002		0.0002	-
	04/06/90	0001		<	0.0002		0.0002	-
	01/09/91	0001		<	0.0002		0.0002	-
MOLYBDENUM	02/02/89	0001	MG/L		0.003	J	0.01	-
	09/19/89	0001			0.01		0.01	-
	04/06/90	0001			0.01		0.01	-
	01/09/91	0001		<	0.01		0.01	-
	12/04/92	0001		<	0.01		0.01	-
NET GROSS ALPHA *	02/02/89	0001	PCI/L		7.74		-	-
	09/19/89	0001			8.71		-	-
	04/06/90	0001			27.63		-	-
	01/09/91	0001			41.26		-	-
	12/04/92	0001			-1.37		-	-
NICKEL	02/02/89	0001	MG/L	<	0.02	J	0.04	-
	09/19/89	0001		<	0.04		0.04	-
	04/06/90	0001		<	0.04		0.04	-
	01/09/91	0001		<	0.04		0.04	-
	12/04/92	0001		<	0.04		0.04	-
NITRATE	02/02/89	0001	MG/L		1.14		1.	-
	09/19/89	0001			4.4		1.	-
	04/06/90	0001			5.6		1.	-
	01/09/91	0001			1.3		0.1	-
	12/04/92	0001		<	1.0		1.0	-
NITRITE AND NITRATE	04/06/90	0001	MG/L		1.3		1.	-
	01/09/91	0001			0.24		0.05	-
PH	02/02/89	0001	SU		8.44		-	-
	09/19/89	0001			8.50		-	-
	04/06/90	0001			8.45		-	-
	01/09/91	0001			8.81		-	-

* NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:

I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
SITE: AMB01 AMBROSIA LAKE
LOCATION: 0681 RESERVED ESTORMS, MW, 11/14/88
NORTH COORDINATE: UNKNOWN
EAST COORDINATE: UNKNOWN
06/10/80 TO 12/04/92
REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - B SANDSTONE (TB)
HYDRAULIC FLOW RELATIONSHIP: CROSS GRADIENT (C)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
PH	12/04/92	0001	SU		8.71		-	-
PHOSPHATE	02/02/89	0001	MG/L	<	0.1		0.1	-
	09/19/89	0001		<	0.1		0.1	-
	04/06/90	0001		<	0.1		0.1	-
	01/09/91	0001			0.13		0.05	-
	12/04/92	0001			0.3		0.1	-
POLONIUM-210	02/02/89	0001	PCI/L		1.55		1.	1.49
	09/19/89	0001			0.0		1.	0.3
POTASSIUM	02/02/89	0001	MG/L		5.6		0.01	-
	09/19/89	0001			2.3		0.01	-
	04/06/90	0001			2.6		0.01	-
	01/09/91	0001			1.83		0.01	-
	12/04/92	0001			2.15		0.01	-
RADIUM-226	02/02/89	0001	PCI/L		0.648		1.	0.225
	09/19/89	0001			0.4		1.	0.3
	04/06/90	0001			0.7		1.	0.3
	01/09/91	0001			0.3		1.	0.4
	12/04/92	0001			0.5		0.3	0.3
RADIUM-226 + RADIUM-228	02/02/89	0001	PCI/L		0.65		-	-
	09/19/89	0001			1.00		-	-
	04/06/90	0001			1.10		-	-
	01/09/91	0001			0.30		-	-
	12/04/92	0001			1.40		-	-
RADIUM-228	02/02/89	0001	PCI/L		0.00		1.	6.19
	09/19/89	0001			0.6		1.	1.1
	04/06/90	0001			0.4		1.	0.7
	01/09/91	0001			0.0		1.	1.6
	12/04/92	0001			0.9	H	1.0	0.7
SELENIUM	02/02/89	0001	MG/L		0.001	J	0.005	-
	09/19/89	0001			0.015		0.005	-
	04/06/90	0001		<	0.005		0.005	-
	01/09/91	0001		<	0.005		0.005	-
	12/04/92	0001		<	0.05	I	0.05	-
SILICA - SiO2	02/02/89	0001	MG/L		8.4		2.	-
	09/19/89	0001			9.0		2.	-
	04/06/90	0001			8.		2.	-
	01/09/91	0001			8.2		0.1	-
SILVER	02/02/89	0001	MG/L	<	0.01		0.01	-
	09/19/89	0001		<	0.01		0.01	-
	04/06/90	0001		<	0.01		0.01	-
	01/09/91	0001		<	0.01		0.01	-
	12/04/92	0001		<	0.01		0.01	-
SODIUM	02/02/89	0001	MG/L		720.		0.002	-
	09/19/89	0001			576.		0.002	-
	04/06/90	0001			593.		0.002	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:

H - HOLD TIME EXPIRED, VALUE SUSPECT
I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0681 RESERVED ESTORMS, HW, 11/14/88
 NORTH COORDINATE: UNKNOWN
 EAST COORDINATE: UNKNOWN
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - B SANDSTONE (TB)
 HYDRAULIC FLOW RELATIONSHIP: CROSS GRADIENT (C)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SODIUM	01/09/91	0001	MG/L		601.	J	5.	-
	12/04/92	0001			589.		5.	-
SPECIFIC CONDUCTANCE	02/02/89	0001	UMHO/CM		1900.		-	-
	09/19/89	0001			800.		-	-
	04/06/90	0001			1790.		-	-
	01/09/91	0001			1880.		-	-
	12/04/92	0001			2100		-	-
STRONTIUM	02/02/89	0001	MG/L		1.00		0.1	-
	09/19/89	0001			0.4		0.1	-
	04/06/90	0001			0.39		0.1	-
	01/09/91	0001			0.41		0.01	-
SULFATE	02/02/89	0001	MG/L		1163.		0.1	-
	09/19/89	0001			967.		0.1	-
	04/06/90	0001			1040.		0.1	-
	01/09/91	0001			1030.		10.	-
	12/04/92	0001			911.		10.	-
SULFIDE	02/02/89	0001	MG/L	<	0.01	J	0.1	-
	09/19/89	0001		<	0.1		0.1	-
	04/06/90	0001		<	0.1		0.1	-
	01/09/91	0001		<	0.1		0.1	-
TEMPERATURE	02/02/89	0001	C - DEGREE		13.0		-	-
	09/19/89	0001			14.0		-	-
	04/06/90	0001			14.		-	-
	01/09/91	0001			13.8		-	-
	12/04/92	0001			13.5		-	-
THALLIUM	02/02/89	0001	MG/L	<	0.005		0.005	-
	09/19/89	0001		<	0.01		0.01	-
	04/06/90	0001		<	0.01		0.01	-
	01/09/91	0001		<	0.03	I	0.03	-
THORIUM-230	02/02/89	0001	PCI/L		0.00854		1.	0.245
	09/19/89	0001			0.0		1.	0.3
TIN	02/02/89	0001	MG/L	<	0.001	J	0.005	-
	09/19/89	0001			0.104		0.005	-
	04/06/90	0001			0.056		0.005	-
	01/09/91	0001		<	0.03	I	0.03	-
TOTAL DISSOLVED SOLIDS	02/02/89	0001	MG/L		2064.		10.	-
	09/19/89	0001			1620.		10.	-
	04/06/90	0001			1710.		10.	-
	01/09/91	0001			1790.		10.	-
	12/04/92	0001			1770.		10.	-
TOTAL KJELDAHL NITROGEN	01/09/91	0001	MG/L		1.		1.	-
	12/04/92	0001			1.		1.	-
TOTAL ORGANIC CARBON	02/02/89	0001	MG/L		44.		1.	-
	09/19/89	0001			67.		1.	-
	04/06/90	0001			45.		1.	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:

I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0681 RESERVED ESTORMS, MW, 11/14/88
 NORTH COORDINATE: UNKNOWN
 EAST COORDINATE: UNKNOWN
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - B SANDSTONE (TB)
 HYDRAULIC FLOW RELATIONSHIP: CROSS GRADIENT (C)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TOTAL ORGANIC CARBON	01/09/91	0001	MG/L		5.		1.	-
	12/04/92	0001			2.	H	1.	-
URANIUM	02/02/89	0001	MG/L		0.010		0.003	-
	09/19/89	0001			0.0010	J	0.003	-
	04/06/90	0001			0.0020	J	0.003	-
	01/09/91	0001		<	0.001		0.001	-
	12/04/92	0001			0.002		0.001	-
VANADIUM	02/02/89	0001	MG/L	<	0.01		0.01	-
	09/19/89	0001		<	0.1		0.1	-
	04/06/90	0001		<	0.01		0.01	-
	01/09/91	0001		<	0.01		0.01	-
	12/04/92	0001		<	0.01		0.01	-
ZINC	02/02/89	0001	MG/L	<	0.01		0.01	-
	09/19/89	0001		<	0.005		0.005	-
	04/06/90	0001			0.006		0.005	-
	01/09/91	0001		<	0.005		0.005	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
 H - HOLD TIME EXPIRED, VALUE SUSPECT
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0706
 NORTH COORDINATE: 53612.0 FT
 EAST COORDINATE: 59942.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: ON-SITE (O)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	06/21/82	0001	MG/L CaCO3		2300.00		-	-
	09/30/85	0001			4765.		-	-
	05/13/86	0001			764.		-	-
	01/09/87	0001			5145.		-	-
ALUMINUM	06/21/82	0001	MG/L	<	0.10		0.1	-
ARSENIC	06/21/82	0001	MG/L		0.33		-	-
	09/30/85	0001		<	0.01		0.01	-
	05/13/86	0001		<	0.01		0.01	-
	01/09/87	0001			0.272		0.01	-
BARIUM	06/21/82	0001	MG/L	<	0.10		0.1	-
BICARBONATE - HCO3	06/21/82	0001	MG/L		5613.00		-	-
BORON	05/13/86	0001	MG/L		0.7		0.1	-
	01/09/87	0001			0.15		0.1	-
CADMIUM	06/21/82	0001	MG/L	<	0.10		0.1	-
	05/13/86	0001		<	0.001		0.001	-
CALCIUM	06/21/82	0001	MG/L		12.00		-	-
	09/30/85	0001			10.7		0.01	-
	05/13/86	0001			520.		0.01	-
	01/09/87	0001			9.16		0.01	-
CHLORIDE	06/21/82	0001	MG/L		290.00		-	-
	09/30/85	0001			300.		1.	-
	05/13/86	0001			460.		1.	-
	01/09/87	0001			489.		1.	-
CHROMIUM	06/21/82	0001	MG/L		0.03		-	-
	05/13/86	0001			0.06		0.01	-
	01/09/87	0001			0.02		0.01	-
COBALT	05/13/86	0001	MG/L		0.12		0.05	-
	01/09/87	0001			0.10		0.05	-
COPPER	06/21/82	0001	MG/L		0.20		-	-
	01/09/87	0001			0.07		0.02	-
FLUORIDE	06/21/82	0001	MG/L		15.00		-	-
	05/13/86	0001			0.5		0.1	-
	01/09/87	0001			14.5		0.1	-
GROSS ALPHA	06/21/82	0001	PCI/L		15000.00		-	-
	01/09/87	0001			8000.		0.2	400.
GROSS BETA	01/09/87	0001	PCI/L		4400.		1.	200.
IRON	06/21/82	0001	MG/L		1.00		-	-
	05/13/86	0001			0.14		0.03	-
	01/09/87	0001			0.75		0.03	-
LEAD	06/21/82	0001	MG/L		0.02		-	-
MAGNESIUM	06/21/82	0001	MG/L		55.00		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0706
 NORTH COORDINATE: 53612.0 FT
 EAST COORDINATE: 59942.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: ON-SITE (O)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
MAGNESIUM	09/30/85	0001	MG/L		43.2		0.001	-
	05/13/86	0001			273.		0.001	-
	01/09/87	0001			42.1		0.001	-
MANGANESE	05/13/86	0001	MG/L		0.22		0.01	-
	01/09/87	0001			0.09		0.01	-
MERCURY	06/21/82	0001	MG/L	<	0.002		0.002	-
MOLYBDENUM	06/21/82	0001	MG/L		225.00		-	-
	09/30/85	0001			223.		0.01	-
	05/13/86	0001			9.37		0.01	-
	01/09/87	0001			220.		0.01	-
NET GROSS ALPHA *	01/09/87	0001	PCI/L		2415.96		-	-
NITRATE	06/21/82	0001	MG/L	<	1.00		1.	-
	05/13/86	0001			25.		1.	-
	01/09/87	0001			25.		1.	-
PH	06/21/82	0001	SU		8.40		-	-
	09/30/85	0001			9.12		-	-
	05/13/86	0001			7.25		-	-
	01/09/87	0001			9.21		-	-
POTASSIUM	06/21/82	0001	MG/L		9.00		-	-
	09/30/85	0001			13.3		0.01	-
	05/13/86	0001			15.8		0.01	-
	01/09/87	0001			0.91		0.01	-
RADIUM-226	06/21/82	0001	PCI/L		4.00		-	-
	01/09/87	0001			130.		1.	10.
RADIUM-226 + RADIUM-228	01/09/87	0001	PCI/L		131.80		-	-
RADIUM-228	01/09/87	0001	PCI/L		1.8		1.	6.1
SELENIUM	06/21/82	0001	MG/L		0.037		-	-
	09/30/85	0001			0.088		0.005	-
	05/13/86	0001			0.01		0.005	-
	01/09/87	0001			0.012		0.005	-
SILICA - SiO2	06/21/82	0001	MG/L		6.50		-	-
SILVER	06/21/82	0001	MG/L		0.15		-	-
	01/09/87	0001			0.02		0.01	-
SODIUM	06/21/82	0001	MG/L		7100.00		-	-
	09/30/85	0001			7020.		0.002	-
	05/13/86	0001			1140.		0.002	-
	01/09/87	0001			7610.		0.002	-
SPECIFIC CONDUCTANCE	06/21/82	0001	UMHO/CM		22200.00		-	-
	09/30/85	0001			17000.		-	-
	05/13/86	0001			4500.		-	-
	01/09/87	0001			14500.		-	-

• NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0706
 NORTH COORDINATE: 53612.0 FT
 EAST COORDINATE: 59942.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: ON-SITE (O)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
STRONTIUM	05/13/86	0001	MG/L		1.2		0.1	-
SULFATE	06/21/82	0001	MG/L		8680.00		-	-
	09/30/85	0001			10000.		0.1	-
	05/13/86	0001			3420.		0.1	-
	01/09/87	0001			10300.		0.1	-
TEMPERATURE	06/21/82	0001	C - DEGREE		23.00		-	-
	09/30/85	0001			14.		-	-
	05/13/86	0001			13.		-	-
	01/09/87	0001			10.		-	-
TOTAL DISSOLVED SOLIDS	06/21/82	0001	MG/L		19200.00		-	-
	09/30/85	0001			20900.		10.	-
	05/13/86	0001			6900.		10.	-
	01/09/87	0001			20600.		10.	-
URANIUM	09/30/85	0001	MG/L		11.1		0.003	-
	05/13/86	0001			3.92		0.003	-
	01/09/87	0001			8.14		0.003	-
URANIUM-234	06/21/82	0001	PCI/L		10.10		-	-
VANADIUM	06/21/82	0001	MG/L		0.048		-	-
	05/13/86	0001			0.51		0.01	-
	01/09/87	0001			0.39		0.01	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0707
 NORTH COORDINATE: 53788.0 FT
 EAST COORDINATE: 60309.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: URANIUM MILL TAILINGS (TA)
 HYDRAULIC FLOW RELATIONSHIP: ON-SITE (O)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	06/21/82	0001	MG/L CaCO3		770.00		-	-
ALUMINUM	06/21/82	0001	MG/L		0.12		-	-
ARSENIC	06/21/82	0001	MG/L		0.01		-	-
BARIUM	06/21/82	0001	MG/L	<	0.10		0.1	-
BICARBONATE - HCO3	06/21/82	0001	MG/L		1879.00		-	-
CADMIUM	06/21/82	0001	MG/L	<	0.01		0.01	-
CALCIUM	06/21/82	0001	MG/L		440.00		-	-
CHLORIDE	06/21/82	0001	MG/L		213.00		-	-
CHROMIUM	06/21/82	0001	MG/L		0.01		-	-
COPPER	06/21/82	0001	MG/L		0.063		-	-
FLUORIDE	06/21/82	0001	MG/L		5.00		-	-
IRON	06/21/82	0001	MG/L		1.46		-	-
LEAD	06/21/82	0001	MG/L		0.01		-	-
MAGNESIUM	06/21/82	0001	MG/L		600.00		-	-
MERCURY	06/21/82	0001	MG/L	<	0.002		0.002	-
MOLYBDENUM	06/21/82	0001	MG/L		67.00		-	-
NITRATE	06/21/82	0001	MG/L	<	1.00		1.	-
PH	06/21/82	0001	SU		6.80		-	-
POTASSIUM	06/21/82	0001	MG/L		12.00		-	-
RADIUM-226	06/21/82	0001	PCI/L		27.00		-	-
SELENIUM	06/21/82	0001	MG/L		0.018		-	-
SILICA - SiO2	06/21/82	0001	MG/L		9.50		-	-
SILVER	06/21/82	0001	MG/L		0.05		-	-
SODIUM	06/21/82	0001	MG/L		4000.00		-	-
SPECIFIC CONDUCTANCE	06/21/82	0001	UMHO/CM		13200.00		-	-
SULFATE	06/21/82	0001	MG/L		9110.00		-	-
TEMPERATURE	06/21/82	0001	C - DEGREE		15.00		-	-
TOTAL DISSOLVED SOLIDS	06/21/82	0001	MG/L		15400.00		-	-
URANIUM-234	06/21/82	0001	PCI/L		21.50		-	-
VANADIUM	06/21/82	0001	MG/L	<	0.01		0.01	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
SITE: AMB01 AMBROSIA LAKE
LOCATION: 0707
NORTH COORDINATE: 53788.0 FT
EAST COORDINATE: 60309.0 FT
06/10/80 TO 12/04/92
REPORT DATE: 08/04/94

FORMATION OF COMPLETION: URANIUM MILL TAILINGS (TA)
HYDRAULIC FLOW RELATIONSHIP: ON-SITE (O)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
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PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT SAMPLE ID CODES:

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0708
 NORTH COORDINATE: 53295.0 FT
 EAST COORDINATE: 59872.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C1 SANDSTONE (TO)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	06/21/82	0001	MG/L CACO3		320.00		-	-
ALUMINUM	06/21/82	0001	MG/L	<	0.10		0.1	-
ARSENIC	06/21/82	0001	MG/L		0.002		-	-
BARIUM	06/21/82	0001	MG/L	<	0.10		0.1	-
BICARBONATE - HCO3	06/21/82	0001	MG/L		781.00		-	-
CADMIUM	06/21/82	0001	MG/L	<	0.01		0.01	-
CALCIUM	06/21/82	0001	MG/L		470.00		-	-
CHLORIDE	06/21/82	0001	MG/L		260.00		-	-
CHROMIUM	06/21/82	0001	MG/L	<	0.01		0.01	-
COPPER	06/21/82	0001	MG/L	<	0.025		0.025	-
FLUORIDE	06/21/82	0001	MG/L		2.00		-	-
GROSS ALPHA	06/21/82	0001	PCI/L		31000.00		-	-
IRON	06/21/82	0001	MG/L		0.26		-	-
LEAD	06/21/82	0001	MG/L	<	0.01		0.01	-
MAGNESIUM	06/21/82	0001	MG/L		333.00		-	-
MERCURY	06/21/82	0001	MG/L	<	0.002		0.002	-
MOLYBDENUM	06/21/82	0001	MG/L		10.30		-	-
NITRATE	06/21/82	0001	MG/L		24.00		-	-
PH	06/21/82	0001	SU		7.80		-	-
POTASSIUM	06/21/82	0001	MG/L		10.00		-	-
RADIUM-226	06/21/82	0001	PCI/L		5.00		-	-
SELENIUM	06/21/82	0001	MG/L		0.225		-	-
SILICA - SiO2	06/21/82	0001	MG/L		6.80		-	-
SILVER	06/21/82	0001	MG/L		0.019		-	-
SODIUM	06/21/82	0001	MG/L		1590.00		-	-
SPECIFIC CONDUCTANCE	06/21/82	0001	UMHO/CM		8280.00		-	-
SULFATE	06/21/82	0001	MG/L		4010.00		-	-
TEMPERATURE	06/21/82	0001	C - DEGREE		15.00		-	-
TOTAL DISSOLVED SOLIDS	06/21/82	0001	MG/L		7190.00		-	-
URANIUM-234	06/21/82	0001	PCI/L		11.50		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
SITE: AMB01 AMBROSIA LAKE
LOCATION: 0708
NORTH COORDINATE: 53295.0 FT
EAST COORDINATE: 59872.0 FT
06/10/80 TO 12/04/92
REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C1 SANDSTONE (TO)
HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
VANADIUM	06/21/82	0001	MG/L	<	0.01		0.01	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0709
 NORTH COORDINATE: 55212.0 FT
 EAST COORDINATE: 60324.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: UPGRADIENT (U)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	06/21/82	0001	MG/L CaCO_3		150.00		-	-
ALUMINUM	06/21/82	0001	MG/L		0.15		-	-
ARSENIC	06/21/82	0001	MG/L		0.002		-	-
BARIUM	06/21/82	0001	MG/L	<	0.10		0.1	-
BICARBONATE - HCO_3	06/21/82	0001	MG/L		366.00		-	-
CADMIUM	06/21/82	0001	MG/L	<	0.01		0.01	-
CALCIUM	06/21/82	0001	MG/L		493.00		-	-
CHLORIDE	06/21/82	0001	MG/L		172.00		-	-
CHROMIUM	06/21/82	0001	MG/L	<	0.01		0.01	-
COPPER	06/21/82	0001	MG/L		0.025		-	-
FLUORIDE	06/21/82	0001	MG/L		2.00		-	-
GROSS ALPHA	06/21/82	0001	PCI/L		158.00		-	-
IRON	06/21/82	0001	MG/L		0.19		-	-
LEAD	06/21/82	0001	MG/L	<	0.01		0.01	-
MAGNESIUM	06/21/82	0001	MG/L		199.00		-	-
MERCURY	06/21/82	0001	MG/L	<	0.002		0.002	-
MOLYBDENUM	06/21/82	0001	MG/L	<	0.025		0.025	-
NITRATE	06/21/82	0001	MG/L		1.00		-	-
PH	06/21/82	0001	SU		6.88		-	-
POTASSIUM	06/21/82	0001	MG/L		4.00		-	-
RADIUM-226	06/21/82	0001	PCI/L		5.00		-	-
SELENIUM	06/21/82	0001	MG/L		0.15		-	-
SILICA - SiO_2	06/21/82	0001	MG/L		6.10		-	-
SILVER	06/21/82	0001	MG/L		0.008		-	-
SODIUM	06/21/82	0001	MG/L		550.00		-	-
SPECIFIC CONDUCTANCE	06/21/82	0001	UMHO/CM		4440.00		-	-
SULFATE	06/21/82	0001	MG/L		2750.00		-	-
TEMPERATURE	06/21/82	0001	C - DEGREE		14.00		-	-
TOTAL DISSOLVED SOLIDS	06/21/82	0001	MG/L		4360.00		-	-
URANIUM-234	06/21/82	0001	PCI/L		0.032		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
SITE: AMB01 AMBROSIA LAKE
LOCATION: 0709
NORTH COORDINATE: 55212.0 FT
EAST COORDINATE: 60324.0 FT
06/10/80 TO 12/04/92
REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
HYDRAULIC FLOW RELATIONSHIP: UPGRADIENT (U)

2

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
VANADIUM	06/21/82	0001	MG/L	<	0.01		0.01	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0710
 NORTH COORDINATE: 55599.0 FT
 EAST COORDINATE: 61272.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: UPGRADIENT (U)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	06/21/82	0001	MG/L CACO3		120.00		-	-
ALUMINUM	06/21/82	0001	MG/L	<	0.10		0.1	-
ARSENIC	06/21/82	0001	MG/L		0.002		-	-
BARIUM	06/21/82	0001	MG/L	<	0.10		0.1	-
BICARBONATE - HCO3	06/21/82	0001	MG/L		293.00		-	-
CADMIUM	06/21/82	0001	MG/L	<	0.01		0.01	-
CALCIUM	06/21/82	0001	MG/L		503.00		-	-
CHLORIDE	06/21/82	0001	MG/L		65.00		-	-
CHROMIUM	06/21/82	0001	MG/L	<	0.01		0.01	-
COPPER	06/21/82	0001	MG/L	<	0.025		0.025	-
FLUORIDE	06/21/82	0001	MG/L		2.00		-	-
GROSS ALPHA	06/21/82	0001	PCI/L		300.00		-	-
IRON	06/21/82	0001	MG/L		0.02		-	-
LEAD	06/21/82	0001	MG/L	<	0.01		0.01	-
MAGNESIUM	06/21/82	0001	MG/L		213.00		-	-
MERCURY	06/21/82	0001	MG/L	<	0.002		0.002	-
MOLYBDENUM	06/21/82	0001	MG/L		0.59		-	-
NET GROSS ALPHA *	06/21/82	0001	PCI/L		251.29		-	-
NITRATE	06/21/82	0001	MG/L		3.00		-	-
PH	06/21/82	0001	SU		7.05		-	-
POTASSIUM	06/21/82	0001	MG/L		3.00		-	-
RADIUM-226	06/21/82	0001	PCI/L		4.00		-	-
SELENIUM	06/21/82	0001	MG/L		0.53		-	-
SILICA - SiO2	06/21/82	0001	MG/L		6.80		-	-
SILVER	06/21/82	0001	MG/L		0.01		-	-
SODIUM	06/21/82	0001	MG/L		350.00		-	-
SPECIFIC CONDUCTANCE	06/21/82	0001	UMHO/CM		3820.00		-	-
SULFATE	06/21/82	0001	MG/L		2460.00		-	-
TEMPERATURE	06/21/82	0001	C - DEGREE		13.00		-	-

* NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
SITE: AMB01 AMBROSIA LAKE
LOCATION: 0710
NORTH COORDINATE: 55599.0 FT
EAST COORDINATE: 61272.0 FT
06/10/80 TO 12/04/92
REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
HYDRAULIC FLOW RELATIONSHIP: UPGRADIENT (U)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TOTAL DISSOLVED SOLIDS	06/21/82	0001	MG/L		3760.00		-	-
URANIUM	06/21/82	0001	MG/L		0.071		-	-
VANADIUM	06/21/82	0001	MG/L	<	0.01		0.01	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0711
 NORTH COORDINATE: 44620.0 FT
 EAST COORDINATE: 58430.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - B SANDSTONE (TB)
 HYDRAULIC FLOW RELATIONSHIP: UPGRADIENT (U)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	06/20/80	0001	MG/L CaCO3		27.50		-	-
	10/08/85	0001			268.		-	-
	10/08/85	0002			268.		-	-
	10/08/85	0003			268.		-	-
	10/08/85	0004			268.		-	-
	10/08/85	0005			268.		-	-
ALUMINUM	06/20/80	0001	MG/L		0.78		-	-
	10/08/85	0002			0.4		0.1	-
	10/08/85	0003			0.5		0.1	-
	10/08/85	0004			0.5		0.1	-
	10/08/85	0005			0.6		0.1	-
AMMONIUM	10/08/85	0002	MG/L		0.2		0.1	-
	10/08/85	0003			0.2		0.1	-
	10/08/85	0004			0.2		0.1	-
	10/08/85	0005		<	0.1		0.1	-
ANTIMONY	10/08/85	0002	MG/L	<	0.003		0.003	-
	10/08/85	0003		<	0.003		0.003	-
	10/08/85	0004		<	0.003		0.003	-
	10/08/85	0005		<	0.003		0.003	-
ARSENIC	06/20/80	0001	MG/L		0.033		-	-
	10/08/85	0001		<	0.01		0.01	-
	10/08/85	0002		<	0.01	J	0.017	-
	10/08/85	0003		<	0.01		0.01	-
	10/08/85	0004		<	0.01		0.01	-
	10/08/85	0005		<	0.01		0.01	-
BARIUM	06/20/80	0001	MG/L		0.003		-	-
	10/08/85	0002			0.2		0.1	-
	10/08/85	0003			0.2		0.1	-
	10/08/85	0004			0.3		0.1	-
	10/08/85	0005			0.1		0.1	-
BICARBONATE - HCO3	06/20/80	0001	MG/L		67.00		-	-
BORON	06/20/80	0001	MG/L		0.50		-	-
	10/08/85	0002			0.5		0.1	-
	10/08/85	0003			0.4		0.1	-
	10/08/85	0004			0.4		0.1	-
	10/08/85	0005			0.4		0.1	-
CADMIUM	06/20/80	0001	MG/L	<	0.008		0.008	-
	10/08/85	0002		<	0.001		0.001	-
	10/08/85	0003		<	0.001		0.001	-
	10/08/85	0004		<	0.001		0.001	-
	10/08/85	0005		<	0.001		0.001	-
CALCIUM	06/20/80	0001	MG/L		240.00		-	-
	10/08/85	0001			446.		0.01	-
	10/08/85	0002			328.		0.01	-
	10/08/85	0003			348.		0.01	-
	10/08/85	0004			192.		0.01	-
	10/08/85	0005			189.		0.01	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

OTHER PARAMETER VALUE FLAGS:
 J - ESTIMATED VALUE

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)
 0002 - FILTERED REPLICATE SAMPLE (.45 MICRONS)
 0003 - FILTERED REPLICATE SAMPLE (.45 MICRONS)
 0004 - FILTERED REPLICATE SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0711
 NORTH COORDINATE: 44620.0 FT
 EAST COORDINATE: 58430.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - B SANDSTONE (TB)
 HYDRAULIC FLOW RELATIONSHIP: UPGRADIENT (U)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CHLORIDE	06/20/80	0001	MG/L		109.00		-	-
	10/08/85	0001			410.		1.	-
	10/08/85	0002			400.		1.	-
	10/08/85	0003			390.		1.	-
	10/08/85	0004			420.		1.	-
	10/08/85	0005			400.		1.	-
CHROMIUM	06/20/80	0001	MG/L		0.16		-	-
	10/08/85	0002			0.03		0.01	-
	10/08/85	0003			0.05		0.01	-
	10/08/85	0004			0.04		0.01	-
	10/08/85	0005			0.04		0.01	-
COBALT	06/20/80	0001	MG/L	<	0.006		0.006	-
	10/08/85	0002		<	0.05		0.05	-
	10/08/85	0003		<	0.05		0.05	-
	10/08/85	0004		<	0.05		0.05	-
	10/08/85	0005		<	0.05		0.05	-
COPPER	06/20/80	0001	MG/L	<	0.001		0.001	-
	10/08/85	0002		<	0.02		0.02	-
	10/08/85	0003		<	0.02		0.02	-
	10/08/85	0004		<	0.02		0.02	-
	10/08/85	0005		<	0.02		0.02	-
CYANIDE	10/08/85	0002	MG/L	<	0.01		0.01	-
	10/08/85	0003		<	0.01		0.01	-
	10/08/85	0004		<	0.01		0.01	-
	10/08/85	0005		<	0.01		0.01	-
FLUORIDE	06/20/80	0001	MG/L		0.20		-	-
	10/08/85	0002			0.8		0.1	-
	10/08/85	0003			0.7		0.1	-
	10/08/85	0004			0.7		0.1	-
	10/08/85	0005			0.6		0.1	-
IRON	06/20/80	0001	MG/L	<	0.008		0.008	-
	10/08/85	0002			0.37		0.03	-
	10/08/85	0003			0.95		0.03	-
	10/08/85	0004			0.04		0.03	-
	10/08/85	0005			0.07		0.03	-
LEAD	06/20/80	0001	MG/L	<	0.001		0.001	-
	10/08/85	0002		<	0.01		0.01	-
	10/08/85	0003		<	0.01		0.01	-
	10/08/85	0004		<	0.01		0.01	-
	10/08/85	0005		<	0.01		0.01	-
LEAD-210	10/08/85	0002	PCI/L		1.4		1.5	1.1
	10/08/85	0003			0.3		1.5	1.3
	10/08/85	0004			0.2		1.5	1.2
	10/08/85	0005			0.4		1.5	1.1
MAGNESIUM	06/20/80	0001	MG/L		200.00		-	-
	10/08/85	0001			246.		0.001	-
	10/08/85	0002			217.		0.001	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:

0001 - FILTERED SAMPLE (.45 MICRONS)
 0002 - FILTERED REPLICATE SAMPLE (.45 MICRONS)
 0003 - FILTERED REPLICATE SAMPLE (.45 MICRONS)
 0004 - FILTERED REPLICATE SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0711
 NORTH COORDINATE: 44620.0 FT
 EAST COORDINATE: 58430.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - B SANDSTONE (TB)
 HYDRAULIC FLOW RELATIONSHIP: UPGRADIENT (U)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
MAGNESIUM	10/08/85	0003	MG/L		247.		0.001	-
	10/08/85	0004			193.		0.001	-
	10/08/85	0005			194.		0.001	-
MANGANESE	06/20/80	0001	MG/L		0.74		-	-
	10/08/85	0002			0.06		0.01	-
	10/08/85	0003			0.06		0.01	-
	10/08/85	0004			0.03		0.01	-
	10/08/85	0005			0.04		0.01	-
MERCURY	06/20/80	0001	MG/L	<	0.001		0.001	-
	10/08/85	0002		<	0.0002		0.0002	-
	10/08/85	0003		<	0.0002		0.0002	-
	10/08/85	0004		<	0.0002		0.0002	-
	10/08/85	0005		<	0.0002		0.0002	-
MOLYBDENUM	06/20/80	0001	MG/L		0.42		-	-
	10/08/85	0001			0.26		0.01	-
	10/08/85	0002			0.2		0.01	-
	10/08/85	0003			0.1		0.01	-
	10/08/85	0004			0.3		0.01	-
	10/08/85	0005			0.34		0.01	-
NICKEL	06/20/80	0001	MG/L	<	0.003		0.003	-
	10/08/85	0002			0.08		0.04	-
	10/08/85	0003			0.09		0.04	-
	10/08/85	0004			0.09		0.04	-
	10/08/85	0005			0.07		0.04	-
NITRATE	06/20/80	0001	MG/L		0.70		-	-
	10/08/85	0002			10.		1.	-
	10/08/85	0003			20.		1.	-
	10/08/85	0004			20.		1.	-
	10/08/85	0005			20.		1.	-
NITRITE	10/08/85	0002	MG/L	<	0.1		0.1	-
	10/08/85	0003		<	0.1		0.1	-
	10/08/85	0004		<	0.1		0.1	-
	10/08/85	0005		<	0.1		0.1	-
PH	06/20/80	0001	SU		7.70		-	-
	10/08/85	0001			7.14		-	-
	10/08/85	0002			7.14		-	-
	10/08/85	0003			7.14		-	-
	10/08/85	0004			7.14		0.01	-
	10/08/85	0005			7.14		-	-
PHOSPHATE	10/08/85	0002	MG/L		0.4		0.1	-
	10/08/85	0003			0.4		0.1	-
	10/08/85	0004			0.5		0.1	-
	10/08/85	0005			0.4		0.1	-
POLONIUM-210	10/08/85	0002	PCI/L		2.7		1.	1.
	10/08/85	0003			0.		1.	0.6
	10/08/85	0004			0.		1.	2.8
	10/08/85	0005			0.		1.	0.5

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
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 0004 - FILTERED REPLICATE SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0711
 NORTH COORDINATE: 44620.0 FT
 EAST COORDINATE: 58430.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - B SANDSTONE (TB)
 HYDRAULIC FLOW RELATIONSHIP: UPGRADIENT (U)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
POTASSIUM	06/20/80	0001	MG/L		5.80		-	-
	10/08/85	0001			5.96		0.01	-
	10/08/85	0002			6.21		0.01	-
	10/08/85	0003			5.95		0.01	-
	10/08/85	0004			6.94		0.01	-
	10/08/85	0005			6.58		0.01	-
RADIUM-226	06/20/80	0001	PCI/L		18.00		-	-
	10/08/85	0002			1.		1.	0.4
	10/08/85	0003			0.4		1.	0.3
	10/08/85	0004			17.		1.	1.
	10/08/85	0005			1.		1.	0.4
RADIUM-226 + RADIUM-228	10/08/85	0002	PCI/L		1.00		-	-
	10/08/85	0003			0.40		-	-
	10/08/85	0004			17.00		-	-
	10/08/85	0005			1.00		-	-
RADIUM-228	10/08/85	0002	PCI/L		0.		1.	1.2
	10/08/85	0003			0.		1.	1.3
	10/08/85	0004			0.		1.	0.8
	10/08/85	0005			0.		1.	0.9
SELENIUM	06/20/80	0001	MG/L		0.12		-	-
	10/08/85	0001		<	0.005		0.005	-
	10/08/85	0002		<	0.005		0.005	-
	10/08/85	0003		<	0.005		0.005	-
	10/08/85	0004		<	0.005		0.005	-
	10/08/85	0005		<	0.005		0.005	-
SILICA - SiO2	10/08/85	0002	MG/L		8.		2.	-
	10/08/85	0003			8.		2.	-
	10/08/85	0004			8.		2.	-
	10/08/85	0005			8.		2.	-
SILVER	06/20/80	0001	MG/L	<	0.002		0.002	-
	10/08/85	0002		<	0.01		0.01	-
	10/08/85	0003		<	0.01		0.01	-
	10/08/85	0004		<	0.01		0.01	-
	10/08/85	0005		<	0.01		0.01	-
SODIUM	06/20/80	0001	MG/L		200.00		-	-
	10/08/85	0001			286.		0.002	-
	10/08/85	0002			216.		0.002	-
	10/08/85	0003			467.		0.002	-
	10/08/85	0004			780.		0.002	-
	10/08/85	0005			762.		0.002	-
SPECIFIC CONDUCTANCE	06/20/80	0001	UMHO/CM		2800.00		-	-
	10/08/85	0001			3200.		-	-
	10/08/85	0002			3200.		-	-
	10/08/85	0003			3200.		-	-
	10/08/85	0004			3200.		-	-
	10/08/85	0005			3200.		-	-
STRONTIUM	10/08/85	0002	MG/L		4.3		0.1	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:

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 0004 - FILTERED REPLICATE SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0711
 NORTH COORDINATE: 44620.0 FT
 EAST COORDINATE: 58430.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - B SANDSTONE (TB)
 HYDRAULIC FLOW RELATIONSHIP: UPGRADIENT (U)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
STRONTIUM	10/08/85	0003	MG/L		4.1		0.1	-
	10/08/85	0004			2.		0.1	-
	10/08/85	0005			2.		0.1	-
SULFATE	06/20/80	0001	MG/L		1600.00		-	-
	10/08/85	0001			2070.		0.1	-
	10/08/85	0002			1350.		0.1	-
	10/08/85	0003			2040.		0.1	-
	10/08/85	0004			2060.		0.1	-
	10/08/85	0005			2060.		0.1	-
SULFIDE	10/08/85	0002	MG/L	<	0.1		0.1	-
	10/08/85	0003		<	0.1		0.1	-
	10/08/85	0004		<	0.1		0.1	-
	10/08/85	0005		<	0.1		0.1	-
TEMPERATURE	10/08/85	0001	C - DEGREE		13.5		-	-
	10/08/85	0002			13.5		-	-
	10/08/85	0003			13.5		-	-
	10/08/85	0004			13.5		-	-
	10/08/85	0005			13.5		-	-
THORIUM-230	10/08/85	0002	PCI/L		0.3		1.	0.4
	10/08/85	0003			0.1		1.	0.3
	10/08/85	0004			0.3		1.	0.4
	10/08/85	0005			0.2		1.	0.3
TIN	10/08/85	0002	MG/L	<	0.005		0.005	-
	10/08/85	0003		<	0.005		0.005	-
	10/08/85	0004		<	0.005		0.005	-
	10/08/85	0005		<	0.005		0.005	-
TOTAL DISSOLVED SOLIDS	06/20/80	0001	MG/L		2540.00		-	-
	10/08/85	0001			3860.		10.	-
	10/08/85	0002			3910.		10.	-
	10/08/85	0003			3940.		10.	-
	10/08/85	0004			3960.		10.	-
	10/08/85	0005			3980.		10.	-
TOTAL ORGANIC CARBON	10/08/85	0002	MG/L		82.		1.	-
	10/08/85	0004			90.		1.	-
	10/08/85	0005			56.		1.	-
TOTAL SUSPENDED SOLIDS	06/20/80	0001	MG/L		46.00		-	-
URANIUM	06/20/80	0001	MG/L		0.10		-	-
	10/08/85	0001			0.0069		0.003	-
	10/08/85	0002			0.0138		0.003	-
	10/08/85	0003			0.0127		0.003	-
	10/08/85	0004			0.0028 J		0.003	-
	10/08/85	0005			0.0006 J		0.003	-
VANADIUM	06/20/80	0001	MG/L	<	0.003		0.003	-
	10/08/85	0002		<	0.01		0.01	-
	10/08/85	0003		<	0.01		0.01	-
	10/08/85	0004		<	0.01		0.01	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

OTHER PARAMETER VALUE FLAGS:
 J - ESTIMATED VALUE

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)
 0002 - FILTERED REPLICATE SAMPLE (.45 MICRONS)
 0003 - FILTERED REPLICATE SAMPLE (.45 MICRONS)
 0004 - FILTERED REPLICATE SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0711
 NORTH COORDINATE: 44620.0 FT
 EAST COORDINATE: 58430.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - B SANDSTONE (TB)
 HYDRAULIC FLOW RELATIONSHIP: UPGRADIENT (U)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
VANADIUM	10/08/85	0005	MG/L		0.1		0.01	-
ZINC	06/20/80	0001	MG/L		0.15		-	-
	10/08/85	0002			0.013		0.005	-
	10/08/85	0003			0.021		0.005	-
	10/08/85	0004			0.011		0.005	-
	10/08/85	0005			0.01		0.005	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:

0001 - FILTERED SAMPLE (.45 MICRONS)
 0002 - FILTERED REPLICATE SAMPLE (.45 MICRONS)
 0003 - FILTERED REPLICATE SAMPLE (.45 MICRONS)
 0004 - FILTERED REPLICATE SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0712
 NORTH COORDINATE: 58780.0 FT
 EAST COORDINATE: 53420.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	06/25/80	0001	MG/L CaCO3		103.00		-	-
ALUMINUM	06/25/80	0001	MG/L		1.80		-	-
ARSENIC	06/25/80	0001	MG/L		0.091		-	-
BARIUM	06/25/80	0001	MG/L	<	0.001		0.001	-
BICARBONATE - HCO3	06/25/80	0001	MG/L		252.00		-	-
BORON	06/25/80	0001	MG/L		0.77		-	-
CADMIUM	06/25/80	0001	MG/L	<	0.008		0.008	-
CALCIUM	06/25/80	0001	MG/L		490.00		-	-
CHLORIDE	06/25/80	0001	MG/L		1360.00		-	-
CHROMIUM	06/25/80	0001	MG/L	<	0.001		0.001	-
COBALT	06/25/80	0001	MG/L	<	0.006		0.006	-
COPPER	06/25/80	0001	MG/L	<	0.001		0.001	-
FLUORIDE	06/25/80	0001	MG/L		0.04		-	-
IRON	06/25/80	0001	MG/L	<	0.008		0.008	-
LEAD	06/25/80	0001	MG/L		0.009		-	-
MAGNESIUM	06/25/80	0001	MG/L		460.00		-	-
MANGANESE	06/25/80	0001	MG/L		0.54		-	-
MERCURY	06/25/80	0001	MG/L	<	0.001		0.001	-
MOLYBDENUM	06/25/80	0001	MG/L	<	0.002		0.002	-
NICKEL	06/25/80	0001	MG/L	<	0.003		0.003	-
NITRATE	06/25/80	0001	MG/L		28.00		-	-
PH	06/25/80	0001	SU		7.60		-	-
POTASSIUM	06/25/80	0001	MG/L		13.00		-	-
RADIUM-226	06/25/80	0001	PCI/L		4.32		-	-
SELENIUM	06/25/80	0001	MG/L		0.15		-	-
SILVER	06/25/80	0001	MG/L	<	0.002		0.002	-
SODIUM	06/25/80	0001	MG/L		670.00		-	-
SPECIFIC CONDUCTANCE	06/25/80	0001	UMHO/CM		7340.00		-	-
SULFATE	06/25/80	0001	MG/L		2610.00		-	-
TOTAL DISSOLVED SOLIDS	06/25/80	0001	MG/L		6380.00		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0712
 NORTH COORDINATE: 58780.0 FT
 EAST COORDINATE: 53420.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TOTAL SUSPENDED SOLIDS	06/25/80	0001	MG/L		372.00		-	-
URANIUM	06/25/80	0001	MG/L		0.044		-	-
VANADIUM	06/25/80	0001	MG/L	<	0.003		0.003	-
ZINC	06/25/80	0001	MG/L		0.14		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0713
 NORTH COORDINATE: 59395.0 FT
 EAST COORDINATE: 50400.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	06/25/80	0001	MG/L CaCO_3		41.40		-	-
ALUMINUM	06/25/80	0001	MG/L		0.80		-	-
ARSENIC	06/25/80	0001	MG/L		0.041		-	-
BARIUM	06/25/80	0001	MG/L		0.005		-	-
BICARBONATE - HCO_3	06/25/80	0001	MG/L		101.00		-	-
BORON	06/25/80	0001	MG/L		0.48		-	-
CADMIUM	06/25/80	0001	MG/L	<	0.008		0.008	-
CALCIUM	06/25/80	0001	MG/L		470.00		-	-
CHLORIDE	06/25/80	0001	MG/L		70.00		-	-
CHROMIUM	06/25/80	0001	MG/L		0.004		-	-
COBALT	06/25/80	0001	MG/L	<	0.006		0.006	-
COPPER	06/25/80	0001	MG/L		0.03		-	-
FLUORIDE	06/25/80	0001	MG/L		0.30		-	-
IRON	06/25/80	0001	MG/L	<	0.008		0.008	-
LEAD	06/25/80	0001	MG/L		0.004		-	-
MAGNESIUM	06/25/80	0001	MG/L		190.00		-	-
MANGANESE	06/25/80	0001	MG/L		0.49		-	-
MERCURY	06/25/80	0001	MG/L	<	0.001		0.001	-
MOLYBDENUM	06/25/80	0001	MG/L	<	0.002		0.002	-
NICKEL	06/25/80	0001	MG/L	<	0.003		0.003	-
NITRATE	06/25/80	0001	MG/L		0.90		-	-
PH	06/25/80	0001	SU		7.80		-	-
POTASSIUM	06/25/80	0001	MG/L		7.40		-	-
RADIUM-226	06/25/80	0001	PCI/L		9.58		-	-
SELENIUM	06/25/80	0001	MG/L		0.087		-	-
SILVER	06/25/80	0001	MG/L		0.035		-	-
SODIUM	06/25/80	0001	MG/L		190.00		-	-
SPECIFIC CONDUCTANCE	06/25/80	0001	UMHO/CM		3520.00		-	-
SULFATE	06/25/80	0001	MG/L		2290.00		-	-
TOTAL DISSOLVED SOLIDS	06/25/80	0001	MG/L		3560.00		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION

SITE: AMB01 AMBROSIA LAKE

LOCATION: 0713

NORTH COORDINATE: 59395.0 FT

EAST COORDINATE: 50400.0 FT

06/10/80 TO 12/04/92

REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)

HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TOTAL SUSPENDED SOLIDS	06/25/80	0001	MG/L		136.00		-	-
URANIUM	06/25/80	0001	MG/L		0.024		-	-
VANADIUM	06/25/80	0001	MG/L	<	0.003		0.003	-
ZINC	06/25/80	0001	MG/L		0.049		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:

0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0714
 NORTH COORDINATE: 50050.0 FT
 EAST COORDINATE: 53110.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALUMINUM	11/12/80	0001	MG/L		5.80		-	-
ARSENIC	11/12/80	0001	MG/L	<	0.001		0.001	-
BARIUM	11/12/80	0001	MG/L		0.002		-	-
BORON	11/12/80	0001	MG/L	<	0.009		0.009	-
CADMIUM	11/12/80	0001	MG/L		0.12		-	-
CALCIUM	11/12/80	0001	MG/L		220.00		-	-
CHLORIDE	11/12/80	0001	MG/L		3690.00		-	-
CHROMIUM	11/12/80	0001	MG/L		0.059		-	-
COBALT	11/12/80	0001	MG/L		0.04		-	-
COPPER	11/12/80	0001	MG/L		0.023		-	-
FLUORIDE	11/12/80	0001	MG/L	<	0.20		0.2	-
IRON	11/12/80	0001	MG/L		1120.00		-	-
LEAD	11/12/80	0001	MG/L		0.003		-	-
MAGNESIUM	11/12/80	0001	MG/L		670.00		-	-
MANGANESE	11/12/80	0001	MG/L		4.30		-	-
MERCURY	11/12/80	0001	MG/L	<	0.001		0.001	-
MOLYBDENUM	11/12/80	0001	MG/L		0.13		-	-
NICKEL	11/12/80	0001	MG/L		0.047		-	-
NITRATE	11/12/80	0001	MG/L		7.10		-	-
PH	11/12/80	0001	SU		3.30		-	-
POTASSIUM	11/12/80	0001	MG/L		2.30		-	-
RADIUM-226	11/12/80	0001	PCI/L		4.45		-	-
SELENIUM	11/12/80	0001	MG/L		0.031		-	-
SILVER	11/12/80	0001	MG/L	<	0.002		0.002	-
SODIUM	11/12/80	0001	MG/L		1200.00		-	-
SPECIFIC CONDUCTANCE	11/12/80	0001	UMHO/CM		13800.00		-	-
SULFATE	11/12/80	0001	MG/L		2890.00		-	-
TOTAL DISSOLVED SOLIDS	11/12/80	0001	MG/L		9740.00		-	-
TOTAL SUSPENDED SOLIDS	11/12/80	0001	MG/L		312.00		-	-
URANIUM	11/12/80	0001	MG/L		0.013		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
SITE: AMB01 AMBROSIA LAKE
LOCATION: 0714
NORTH COORDINATE: 50050.0 FT
EAST COORDINATE: 53110.0 FT
06/10/80 TO 12/04/92
REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
VANADIUM	11/12/80	0001	MG/L	<	0.003		0.003	-
ZINC	11/12/80	0001	MG/L		0.43		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0715
 NORTH COORDINATE: 50680.0 FT
 EAST COORDINATE: 52310.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALUMINUM	11/12/80	0001	MG/L		5.80		-	-
ARSENIC	11/12/80	0001	MG/L	<	0.001		0.001	-
BARIUM	11/12/80	0001	MG/L		0.016		-	-
BORON	11/12/80	0001	MG/L	<	0.009		0.009	-
CADMIUM	11/12/80	0001	MG/L		0.099		-	-
CALCIUM	11/12/80	0001	MG/L		350.00		-	-
CHLORIDE	11/12/80	0001	MG/L		3340.00		-	-
CHROMIUM	11/12/80	0001	MG/L		0.062		-	-
COBALT	11/12/80	0001	MG/L		0.031		-	-
COPPER	11/12/80	0001	MG/L		0.086		-	-
FLUORIDE	11/12/80	0001	MG/L	<	0.20		0.2	-
IRON	11/12/80	0001	MG/L		990.00		-	-
LEAD	11/12/80	0001	MG/L		0.003		-	-
MAGNESIUM	11/12/80	0001	MG/L		1300.00		-	-
MANGANESE	11/12/80	0001	MG/L		6.80		-	-
MERCURY	11/12/80	0001	MG/L	<	0.001		0.001	-
MOLYBDENUM	11/12/80	0001	MG/L		0.12		-	-
NICKEL	11/12/80	0001	MG/L		0.041		-	-
NITRATE	11/12/80	0001	MG/L		6.30		-	-
PH	11/12/80	0001	SU		3.00		-	-
POTASSIUM	11/12/80	0001	MG/L		12.00		-	-
RADIUM-226	11/12/80	0001	PCI/L		14.32		-	-
SELENIUM	11/12/80	0001	MG/L		0.12		-	-
SILVER	11/12/80	0001	MG/L	<	0.002		0.002	-
SODIUM	11/12/80	0001	MG/L		1400.00		-	-
SPECIFIC CONDUCTANCE	11/12/80	0001	UMHO/CM		13200.00		-	-
SULFATE	11/12/80	0001	MG/L		3170.00		-	-
TOTAL DISSOLVED SOLIDS	11/12/80	0001	MG/L		9090.00		-	-
TOTAL SUSPENDED SOLIDS	11/12/80	0001	MG/L		537.00		-	-
URANIUM	11/12/80	0001	MG/L		0.04		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
SITE: AMB01 AMBROSIA LAKE
LOCATION: 0715
NORTH COORDINATE: 50680.0 FT
EAST COORDINATE: 52310.0 FT
06/10/80 TO 12/04/92
REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
VANADIUM	11/12/80	0001	MG/L	<	0.003		0.003	-
ZINC	11/12/80	0001	MG/L		0.52		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0716
 NORTH COORDINATE: 48800.0 FT
 EAST COORDINATE: 53510.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALUMINUM	11/12/80	0001	MG/L		2.30		-	-
ARSENIC	11/12/80	0001	MG/L		0.002		-	-
BARIUM	11/12/80	0001	MG/L		0.032		-	-
BORON	11/12/80	0001	MG/L	<	0.009		0.009	-
CADMIUM	11/12/80	0001	MG/L	<	0.008		0.008	-
CALCIUM	11/12/80	0001	MG/L		1000.00		-	-
CHLORIDE	11/12/80	0001	MG/L		2560.00		-	-
CHROMIUM	11/12/80	0001	MG/L		0.01		-	-
COBALT	11/12/80	0001	MG/L	<	0.006		0.006	-
COPPER	11/12/80	0001	MG/L		0.032		-	-
FLUORIDE	11/12/80	0001	MG/L	<	0.20		0.2	-
IRON	11/12/80	0001	MG/L		44.00		-	-
LEAD	11/12/80	0001	MG/L	<	0.001		0.001	-
MAGNESIUM	11/12/80	0001	MG/L		340.00		-	-
MANGANESE	11/12/80	0001	MG/L		5.80		-	-
MERCURY	11/12/80	0001	MG/L	<	0.001		0.001	-
MOLYBDENUM	11/12/80	0001	MG/L		0.031		-	-
NICKEL	11/12/80	0001	MG/L	<	0.003		0.003	-
NITRATE	11/12/80	0001	MG/L		6.10		-	-
PH	11/12/80	0001	SU		3.50		-	-
POTASSIUM	11/12/80	0001	MG/L		8.60		-	-
RADIUM-226	11/12/80	0001	PCI/L		33.62		-	-
SELENIUM	11/12/80	0001	MG/L		0.014		-	-
SILVER	11/12/80	0001	MG/L	<	0.002		0.002	-
SODIUM	11/12/80	0001	MG/L		190.00		-	-
SPECIFIC CONDUCTANCE	11/12/80	0001	UMHO/CM		8714.00		-	-
SULFATE	11/12/80	0001	MG/L		1070.00		-	-
TOTAL DISSOLVED SOLIDS	11/12/80	0001	MG/L		5200.00		-	-
TOTAL SUSPENDED SOLIDS	11/12/80	0001	MG/L		196.00		-	-
URANIUM	11/12/80	0001	MG/L		0.07		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
SITE: AMB01 AMBROSIA LAKE
LOCATION: 0716
NORTH COORDINATE: 48800.0 FT
EAST COORDINATE: 53510.0 FT
06/10/80 TO 12/04/92
REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
VANADIUM	11/12/80	0001	MG/L		0.11		-	-
ZINC	11/12/80	0001	MG/L		0.18		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0717
 NORTH COORDINATE: 48090.0 FT
 EAST COORDINATE: 53510.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: MANCOS SHALE (KM)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	11/12/80	0001	MG/L CaCO_3		381.00		-	-
ALUMINUM	11/12/80	0001	MG/L	<	0.05		0.05	-
ARSENIC	11/12/80	0001	MG/L		0.004		-	-
BARIUM	11/12/80	0001	MG/L	<	0.001		0.001	-
BICARBONATE - HCO_3	11/12/80	0001	MG/L		930.00		-	-
BORON	11/12/80	0001	MG/L	<	0.009		0.009	-
CADMIUM	11/12/80	0001	MG/L	<	0.008		0.008	-
CALCIUM	11/12/80	0001	MG/L		45.00		-	-
CHLORIDE	11/12/80	0001	MG/L		2094.00		-	-
CHROMIUM	11/12/80	0001	MG/L	<	0.001		0.001	-
COBALT	11/12/80	0001	MG/L	<	0.006		0.006	-
COPPER	11/12/80	0001	MG/L	<	00.001		00.001	-
FLUORIDE	11/12/80	0001	MG/L	<	0.20		0.2	-
IRON	11/12/80	0001	MG/L		0.34		-	-
LEAD	11/12/80	0001	MG/L		0.001		-	-
MAGNESIUM	11/12/80	0001	MG/L		760.00		-	-
MANGANESE	11/12/80	0001	MG/L		0.19		-	-
MERCURY	11/12/80	0001	MG/L	<	0.001		0.001	-
MOLYBDENUM	11/12/80	0001	MG/L		0.049		-	-
NICKEL	11/12/80	0001	MG/L	<	0.003		0.003	-
NITRATE	11/12/80	0001	MG/L		7.70		-	-
PH	11/12/80	0001	SU		7.90		-	-
POTASSIUM	11/12/80	0001	MG/L		22.00		-	-
RADIUM-226	11/12/80	0001	PCI/L		4.31		-	-
SELENIUM	11/12/80	0001	MG/L		0.053		-	-
SILVER	11/12/80	0001	MG/L	<	0.002		0.002	-
SODIUM	11/12/80	0001	MG/L		1200.00		-	-
SPECIFIC CONDUCTANCE	11/12/80	0001	UMHO/CM		10000.00		-	-
SULFATE	11/12/80	0001	MG/L		2688.00		-	-
TOTAL DISSOLVED SOLIDS	11/12/80	0001	MG/L		7780.00		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0717
 NORTH COORDINATE: 48090.0 FT
 EAST COORDINATE: 53510.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: MANCOS SHALE (KM)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TOTAL SUSPENDED SOLIDS	11/12/80	0001	MG/L		81.00		-	-
URANIUM	11/12/80	0001	MG/L		0.06		-	-
VANADIUM	11/12/80	0001	MG/L	<	0.003		0.003	-
ZINC	11/12/80	0001	MG/L		0.23		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0718
 NORTH COORDINATE: 51470.0 FT
 EAST COORDINATE: 56950.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	06/25/80	0001	MG/L CaCO3		149.00		-	-
	10/16/85	0001			476.		-	-
	05/17/86	0001			817.		-	-
ALUMINUM	06/25/80	0001	MG/L		0.89		-	-
ARSENIC	06/25/80	0001	MG/L		0.18		-	-
	10/16/85	0001		<	0.01		0.01	-
	05/17/86	0001		<	0.01		0.01	-
BARIUM	06/25/80	0001	MG/L	<	0.001		0.001	-
BICARBONATE - HCO3	06/25/80	0001	MG/L		363.00		-	-
BORON	06/25/80	0001	MG/L		0.91		-	-
	05/17/86	0001			0.7		0.1	-
CADMIUM	06/25/80	0001	MG/L	<	0.008		0.008	-
	05/17/86	0001		<	0.001		0.001	-
CALCIUM	06/25/80	0001	MG/L		460.00		-	-
	10/16/85	0001			446.		0.01	-
	05/17/86	0001			363.		0.01	-
CHLORIDE	06/25/80	0001	MG/L		184.00		-	-
	10/16/85	0001			190.		1.	-
	05/17/86	0001			180.		1.	-
CHROMIUM	06/25/80	0001	MG/L	<	0.001		0.001	-
	05/17/86	0001			0.04		0.01	-
COBALT	06/25/80	0001	MG/L	<	0.006		0.006	-
	05/17/86	0001			0.09		0.05	-
COPPER	06/25/80	0001	MG/L		0.015		-	-
FLUORIDE	06/25/80	0001	MG/L		0.25		-	-
	05/17/86	0001			0.4		0.1	-
IRON	06/25/80	0001	MG/L		0.022		-	-
	05/17/86	0001			0.61		0.03	-
LEAD	06/25/80	0001	MG/L		0.01		-	-
MAGNESIUM	06/25/80	0001	MG/L		240.00		-	-
	10/16/85	0001			395.		0.001	-
	05/17/86	0001			246.		0.001	-
MANGANESE	06/25/80	0001	MG/L		0.012		-	-
	05/17/86	0001			0.12		0.01	-
MERCURY	06/25/80	0001	MG/L	<	0.001		0.001	-
MOLYBDENUM	06/25/80	0001	MG/L		0.046		-	-
	10/16/85	0001			0.17		0.01	-
	05/17/86	0001			0.22		0.01	-
NICKEL	06/25/80	0001	MG/L		0.023		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0718
 NORTH COORDINATE: 51470.0 FT
 EAST COORDINATE: 56950.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
NITRATE	06/25/80	0001	MG/L		10.00		-	-
	05/17/86	0001			45.		1.	-
PH	06/25/80	0001	SU		7.70		-	-
	10/16/85	0001			7.15		-	-
	05/17/86	0001			7.8		-	-
POTASSIUM	06/25/80	0001	MG/L		8.40		-	-
	10/16/85	0001			7.61		0.01	-
	05/17/86	0001			14.		0.01	-
RADIUM-226	06/25/80	0001	PCI/L		2.65		-	-
SELENIUM	06/25/80	0001	MG/L		0.95		-	-
	10/16/85	0001		<	0.005		0.005	-
	05/17/86	0001			0.008		0.005	-
SILVER	06/25/80	0001	MG/L		0.018		-	-
SODIUM	06/25/80	0001	MG/L		1200.00		-	-
	10/16/85	0001			1650.		0.002	-
	05/17/86	0001			1830.		0.002	-
SPECIFIC CONDUCTANCE	06/25/80	0001	UMHO/CM		7140.00		-	-
	10/16/85	0001			7000.		-	-
	05/17/86	0001			5000.		-	-
STRONTIUM	05/17/86	0001	MG/L		0.7		0.1	-
SULFATE	06/25/80	0001	MG/L		4290.00		-	-
	10/16/85	0001			4940.		0.1	-
	05/17/86	0001			4620.		0.1	-
TEMPERATURE	10/16/85	0001	C - DEGREE		12.		-	-
	05/17/86	0001			13.		-	-
TOTAL DISSOLVED SOLIDS	06/25/80	0001	MG/L		6920.00		-	-
	10/16/85	0001			8080.		10.	-
	05/17/86	0001			7440.		10.	-
TOTAL SUSPENDED SOLIDS	06/25/80	0001	MG/L		81.00		-	-
URANIUM	06/25/80	0001	MG/L		0.42		-	-
	10/16/85	0001			0.712		0.003	-
	05/17/86	0001			1.26		0.003	-
VANADIUM	06/25/80	0001	MG/L	<	0.003		0.003	-
	05/17/86	0001			0.23		0.01	-
ZINC	06/25/80	0001	MG/L		0.069		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0719
 NORTH COORDINATE: 47800.0 FT
 EAST COORDINATE: 54605.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	06/25/80	0001	MG/L CaCO_3		266.00		-	-
ALUMINUM	06/25/80	0001	MG/L		3.70		-	-
ARSENIC	06/25/80	0001	MG/L		0.20		-	-
BARIUM	06/25/80	0001	MG/L	<	0.001		0.001	-
BICARBONATE - HCO_3	06/25/80	0001	MG/L		648.00		-	-
BORON	06/25/80	0001	MG/L		0.56		-	-
CADMIUM	06/25/80	0001	MG/L	<	0.008		0.008	-
CALCIUM	06/25/80	0001	MG/L		340.00		-	-
CHLORIDE	06/25/80	0001	MG/L		2350.00		-	-
CHROMIUM	06/25/80	0001	MG/L		0.048		-	-
COBALT	06/25/80	0001	MG/L	<	0.006		0.006	-
COPPER	06/25/80	0001	MG/L	<	0.001		0.001	-
FLUORIDE	06/25/80	0001	MG/L		0.07		-	-
IRON	06/25/80	0001	MG/L		0.48		-	-
LEAD	06/25/80	0001	MG/L		0.033		-	-
MAGNESIUM	06/25/80	0001	MG/L		990.00		-	-
MANGANESE	06/25/80	0001	MG/L		0.89		-	-
MERCURY	06/25/80	0001	MG/L	<	0.001		0.001	-
MOLYBDENUM	06/25/80	0001	MG/L		0.002		-	-
NICKEL	06/25/80	0001	MG/L	<	0.003		0.003	-
NITRATE	06/25/80	0001	MG/L		4.70		-	-
PH	06/25/80	0001	SU		7.50		-	-
POTASSIUM	06/25/80	0001	MG/L		14.00		-	-
RADIUM-226	06/25/80	0001	PCI/L		3.52		-	-
SELENIUM	06/25/80	0001	MG/L		0.20		-	-
SILVER	06/25/80	0001	MG/L	<	0.002		0.002	-
SODIUM	06/25/80	0001	MG/L		1500.00		-	-
SPECIFIC CONDUCTANCE	06/25/80	0001	UMHO/CM		12100.00		-	-
SULFATE	06/25/80	0001	MG/L		4620.00		-	-
TOTAL DISSOLVED SOLIDS	06/25/80	0001	MG/L		11300.00		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0719
 NORTH COORDINATE: 47800.0 FT
 EAST COORDINATE: 54605.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TOTAL SUSPENDED SOLIDS	06/25/80	0001	MG/L		478.00		-	-
URANIUM	06/25/80	0001	MG/L		0.025		-	-
VANADIUM	06/25/80	0001	MG/L	<	0.003		0.003	-
ZINC	06/25/80	0001	MG/L		0.27		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0720
 NORTH COORDINATE: 49600.0 FT
 EAST COORDINATE: 54110.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	06/25/80	0001	MG/L CaCO_3		488.00		-	-
ALUMINUM	06/25/80	0001	MG/L		3.40		-	-
ARSENIC	06/25/80	0001	MG/L		0.25		-	-
BARIUM	06/25/80	0001	MG/L	<	0.001		0.001	-
BICARBONATE - HCO_3	06/25/80	0001	MG/L		1190.00		-	-
BORON	06/25/80	0001	MG/L		0.49		-	-
CADMIUM	06/25/80	0001	MG/L	<	0.008		0.008	-
CALCIUM	06/25/80	0001	MG/L		360.00		-	-
CHLORIDE	06/25/80	0001	MG/L		3040.00		-	-
CHROMIUM	06/25/80	0001	MG/L		0.041		-	-
COBALT	06/25/80	0001	MG/L	<	0.006		0.006	-
COPPER	06/25/80	0001	MG/L	<	0.001		0.001	-
FLUORIDE	06/25/80	0001	MG/L		0.03		-	-
IRON	06/25/80	0001	MG/L	<	0.008		0.008	-
LEAD	06/25/80	0001	MG/L		0.032		-	-
MAGNESIUM	06/25/80	0001	MG/L		1400.00		-	-
MANGANESE	06/25/80	0001	MG/L		3.60		-	-
MERCURY	06/25/80	0001	MG/L	<	0.001		0.001	-
MOLYBDENUM	06/25/80	0001	MG/L		0.002		-	-
NICKEL	06/25/80	0001	MG/L	<	0.003		0.003	-
NITRATE	06/25/80	0001	MG/L		6.40		-	-
PH	06/25/80	0001	SU		7.30		-	-
POTASSIUM	06/25/80	0001	MG/L		21.00		-	-
RADIUM-226	06/25/80	0001	PCI/L		0.78		-	-
SELENIUM	06/25/80	0001	MG/L		0.50		-	-
SILVER	06/25/80	0001	MG/L	<	0.002		0.002	-
SODIUM	06/25/80	0001	MG/L		2800.00		-	-
SPECIFIC CONDUCTANCE	06/25/80	0001	UMHO/CM		15400.00		-	-
SULFATE	06/25/80	0001	MG/L		6210.00		-	-
TOTAL DISSOLVED SOLIDS	06/25/80	0001	MG/L		14400.00		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0720
 NORTH COORDINATE: 49600.0 FT
 EAST COORDINATE: 54110.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TOTAL SUSPENDED SOLIDS	06/25/80	0001	MG/L		165.00		-	- -
URANIUM	06/25/80	0001	MG/L		0.18		-	-
VANADIUM	06/25/80	0001	MG/L	<	0.003		0.003	- -
ZINC	06/25/80	0001	MG/L		0.26		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0721
 NORTH COORDINATE: 51090.0 FT
 EAST COORDINATE: 48190.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS-A SANDSTONE (TR)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	10/02/80	0001	MG/L CACO3		26.60		-	-
ALUMINUM	10/02/80	0001	MG/L		0.093		-	-
ARSENIC	10/02/80	0001	MG/L		0.001		-	-
BARIUM	10/02/80	0001	MG/L		0.053		-	-
BICARBONATE - HCO3	10/02/80	0001	MG/L		65.00		-	-
BORON	10/02/80	0001	MG/L		0.33		-	-
CADMIUM	10/02/80	0001	MG/L	<	0.008		0.008	-
CALCIUM	10/02/80	0001	MG/L		480.00		-	-
CHLORIDE	10/02/80	0001	MG/L		1264.00		-	-
CHROMIUM	10/02/80	0001	MG/L		0.039		-	-
COBALT	10/02/80	0001	MG/L	<	0.006		0.006	-
COPPER	10/02/80	0001	MG/L		0.002		-	-
FLUORIDE	10/02/80	0001	MG/L		0.07		-	-
IRON	10/02/80	0001	MG/L		0.01		-	-
LEAD	10/02/80	0001	MG/L	<	0.001		0.001	-
MAGNESIUM	10/02/80	0001	MG/L		840.00		-	-
MANGANESE	10/02/80	0001	MG/L		3.80		-	-
MERCURY	10/02/80	0001	MG/L	<	0.001		0.001	-
MOLYBDENUM	10/02/80	0001	MG/L		0.002		-	-
NICKEL	10/02/80	0001	MG/L	<	0.001		0.001	-
NITRATE	10/02/80	0001	MG/L		7.40		-	-
PH	10/02/80	0001	SU		6.60		-	-
POTASSIUM	10/02/80	0001	MG/L		17.00		-	-
RADIUM-226	10/02/80	0001	PCI/L		75.66		-	-
SELENIUM	10/02/80	0001	MG/L		0.22		-	-
SILVER	10/02/80	0001	MG/L	<	0.002		0.002	-
SODIUM	10/02/80	0001	MG/L		430.00		-	-
SPECIFIC CONDUCTANCE	10/02/80	0001	UMHO/CM		8000.00		-	-
SULFATE	10/02/80	0001	MG/L		3200.00		-	-
TOTAL DISSOLVED SOLIDS	10/02/80	0001	MG/L		6560.00		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0721
 NORTH COORDINATE: 51090.0 FT
 EAST COORDINATE: 48190.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS-A SANDSTONE (TR)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TOTAL SUSPENDED SOLIDS	10/02/80	0001	MG/L		46.00		-	-
URANIUM	10/02/80	0001	MG/L		0.02		-	-
VANADIUM	10/02/80	0001	MG/L		0.01		-	-
ZINC	10/02/80	0001	MG/L		0.17		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0722
 NORTH COORDINATE: 47820.0 FT
 EAST COORDINATE: 59070.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS-A SANDSTONE (TR)
 HYDRAULIC FLOW RELATIONSHIP: UPGRADIENT (U)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	09/22/80	0001	MG/L CaCO3		49.20		-	-
	10/05/85	0001			144.		0.1	-
	05/17/86	0001			201.		-	-
ALUMINUM	09/22/80	0001	MG/L		0.097		-	-
ARSENIC	09/22/80	0001	MG/L	<	0.001		0.001	-
	10/05/85	0001		<	0.01		0.01	-
	05/17/86	0001		<	0.01		0.01	-
BARIUM	09/22/80	0001	MG/L		0.084		-	-
BICARBONATE - HCO3	09/22/80	0001	MG/L		120.00		-	-
BORON	09/22/80	0001	MG/L		0.47		-	-
	05/17/86	0001			0.2		0.1	-
CADMIUM	09/22/80	0001	MG/L	<	0.008		0.008	-
	05/17/86	0001		<	0.001		0.001	-
CALCIUM	09/22/80	0001	MG/L		200.00		-	-
	10/05/85	0001			237.		0.01	-
	05/17/86	0001			228.		0.01	-
CHLORIDE	09/22/80	0001	MG/L		72.00		-	-
	10/05/85	0001			24.		1.	-
	05/17/86	0001			30.		1.	-
CHROMIUM	09/22/80	0001	MG/L	<	0.001		0.001	-
	05/17/86	0001			0.04		0.01	-
COBALT	09/22/80	0001	MG/L	<	0.006		0.006	-
	05/17/86	0001			0.08		0.05	-
COPPER	09/22/80	0001	MG/L		0.02		-	-
FLUORIDE	09/22/80	0001	MG/L		0.22		-	-
	05/17/86	0001			0.7		0.1	-
IRON	09/22/80	0001	MG/L		0.004		-	-
	05/17/86	0001			0.72		0.03	-
LEAD	09/22/80	0001	MG/L		0.006		-	-
MAGNESIUM	09/22/80	0001	MG/L		3.90		-	-
	10/05/85	0001			76.6		0.001	-
	05/17/86	0001			69.9		0.001	-
MANGANESE	09/22/80	0001	MG/L		0.19		-	-
	05/17/86	0001			0.31		0.01	-
MERCURY	09/22/80	0001	MG/L	<	0.001		0.001	-
MOLYBDENUM	09/22/80	0001	MG/L		0.50		-	-
	10/05/85	0001			0.21		0.01	-
	05/17/86	0001			0.24		0.01	-
NICKEL	09/22/80	0001	MG/L		0.006		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0722
 NORTH COORDINATE: 47820.0 FT
 EAST COORDINATE: 59070.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS-A SANDSTONE (TR)
 HYDRAULIC FLOW RELATIONSHIP: UPGRADIENT (U)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
NITRATE	09/22/80	0001	MG/L		3.90		-	-
	05/17/86	0001			73.		1.	-
PH	09/22/80	0001	SU		7.50		-	-
	10/05/85	0001			7.87		-	-
	05/17/86	0001			8.94		-	-
POTASSIUM	09/22/80	0001	MG/L		10.00		-	-
	10/05/85	0001			10.		0.01	-
	05/17/86	0001			8.19		0.01	-
RADIUM-226	09/22/80	0001	PCI/L		7.61		-	-
SELENIUM	09/22/80	0001	MG/L		0.18		-	-
	10/05/85	0001		<	0.005		0.005	-
	05/17/86	0001		<	0.005		0.005	-
SILVER	09/22/80	0001	MG/L	<	0.002		0.002	-
SODIUM	09/22/80	0001	MG/L		240.00		-	-
	10/05/85	0001			397.		0.002	-
	05/17/86	0001			564.		0.002	-
SPECIFIC CONDUCTANCE	09/22/80	0001	UMHO/CM		1840.00		-	-
	10/05/85	0001			2300.		-	-
	05/17/86	0001			2000.		-	-
STRONTIUM	05/17/86	0001	MG/L		3.3		0.1	-
SULFATE	09/22/80	0001	MG/L		750.00		-	-
	10/05/85	0001			1550.		0.1	-
	05/17/86	0001			1740.		0.1	-
TEMPERATURE	10/05/85	0001	C - DEGREE		14.		-	-
	05/17/86	0001			13.		-	-
TOTAL DISSOLVED SOLIDS	09/22/80	0001	MG/L		1413.00		-	-
	10/05/85	0001			2490.		10.	-
	05/17/86	0001			2590.		10.	-
TOTAL SUSPENDED SOLIDS	09/22/80	0001	MG/L		117.00		-	-
URANIUM	09/22/80	0001	MG/L		0.52		-	-
	10/05/85	0001			0.0082		0.003	-
	05/17/86	0001			0.0018 J		0.003	-
VANADIUM	09/22/80	0001	MG/L		0.016		-	-
	05/17/86	0001			0.36		0.01	-
ZINC	09/22/80	0001	MG/L		0.99		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0723
 NORTH COORDINATE: 48190.0 FT
 EAST COORDINATE: 56540.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: DAKOTA SANDSTONE (KD)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	09/22/80	0001	MG/L CaCO3		99.20		-	-
ALUMINUM	09/22/80	0001	MG/L		0.076		-	-
ARSENIC	09/22/80	0001	MG/L		0.007		-	-
BARIUM	09/22/80	0001	MG/L		0.13		-	-
BICARBONATE - HCO3	09/22/80	0001	MG/L		242.00		-	-
BORON	09/22/80	0001	MG/L		0.33		-	-
CADMIUM	09/22/80	0001	MG/L		0.011		-	-
CALCIUM	09/22/80	0001	MG/L		340.00		-	-
CHLORIDE	09/22/80	0001	MG/L		95.00		-	-
CHROMIUM	09/22/80	0001	MG/L	<	0.001		0.001	-
COBALT	09/22/80	0001	MG/L	<	0.006		0.006	-
COPPER	09/22/80	0001	MG/L		0.002		-	-
FLUORIDE	09/22/80	0001	MG/L		0.36		-	-
IRON	09/22/80	0001	MG/L		0.013		-	-
LEAD	09/22/80	0001	MG/L	<	0.001		0.001	-
MAGNESIUM	09/22/80	0001	MG/L		91.00		-	-
MANGANESE	09/22/80	0001	MG/L		1.10		-	-
MERCURY	09/22/80	0001	MG/L	<	0.001		0.001	-
MOLYBDENUM	09/22/80	0001	MG/L		0.005		-	-
NICKEL	09/22/80	0001	MG/L		0.003		-	-
NITRATE	09/22/80	0001	MG/L		1.00		-	-
PH	09/22/80	0001	SU		7.20		-	-
POTASSIUM	09/22/80	0001	MG/L		20.00		-	-
RADIUM-226	09/22/80	0001	PCI/L		874.73		-	-
SELENIUM	09/22/80	0001	MG/L		0.11		-	-
SILVER	09/22/80	0001	MG/L		0.002		-	-
SODIUM	09/22/80	0001	MG/L		200.00		-	-
SPECIFIC CONDUCTANCE	09/22/80	0001	UMHO/CM		2690.00		-	-
SULFATE	09/22/80	0001	MG/L		1220.00		-	-
TOTAL DISSOLVED SOLIDS	09/22/80	0001	MG/L		2226.00		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0723
 NORTH COORDINATE: 48190.0 FT
 EAST COORDINATE: 56540.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: DAKOTA SANDSTONE (KD)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TOTAL SUSPENDED SOLIDS	09/22/80	0001	MG/L		2180.00		-	-
URANIUM	09/22/80	0001	MG/L		0.31		-	-
VANADIUM	09/22/80	0001	MG/L		0.015		-	-
ZINC	09/22/80	0001	MG/L		0.86		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0724
 NORTH COORDINATE: 49715.0 FT
 EAST COORDINATE: 56105.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: DAKOTA SANDSTONE (KD)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	09/23/80	0001	MG/L CaCO_3		68.90		-	-
ALUMINUM	09/23/80	0001	MG/L		0.09		-	-
ARSENIC	09/23/80	0001	MG/L		0.001		-	-
BARIUM	09/23/80	0001	MG/L		0.032		-	-
BICARBONATE - HCO_3	09/23/80	0001	MG/L		168.00		-	-
BORON	09/23/80	0001	MG/L		0.20		-	-
CADMIUM	09/23/80	0001	MG/L		0.02		-	-
CALCIUM	09/23/80	0001	MG/L		107.00		-	-
CHLORIDE	09/23/80	0001	MG/L		73.00		-	-
CHROMIUM	09/23/80	0001	MG/L	<	0.001		0.001	-
COBALT	09/23/80	0001	MG/L	<	0.006		0.006	-
COPPER	09/23/80	0001	MG/L		0.001		-	-
FLUORIDE	09/23/80	0001	MG/L		0.34		-	-
IRON	09/23/80	0001	MG/L		0.24		-	-
LEAD	09/23/80	0001	MG/L		0.002		-	-
MAGNESIUM	09/23/80	0001	MG/L		51.00		-	-
MANGANESE	09/23/80	0001	MG/L		0.003		-	-
MERCURY	09/23/80	0001	MG/L	<	0.001		0.001	-
MOLYBDENUM	09/23/80	0001	MG/L		0.005		-	-
NICKEL	09/23/80	0001	MG/L		0.001		-	-
NITRATE	09/23/80	0001	MG/L		2.70		-	-
PH	09/23/80	0001	SU		7.60		-	-
POTASSIUM	09/23/80	0001	MG/L		9.30		-	-
RADIUM-226	09/23/80	0001	PCI/L		7.75		-	-
SELENIUM	09/23/80	0001	MG/L		0.13		-	-
SILVER	09/23/80	0001	MG/L	<	0.002		0.002	-
SODIUM	09/23/80	0001	MG/L		140.00		-	-
SPECIFIC CONDUCTANCE	09/23/80	0001	UMHO/CM		1450.00		-	-
SULFATE	09/23/80	0001	MG/L		560.00		-	-
TOTAL DISSOLVED SOLIDS	09/23/80	0001	MG/L		1110.00		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
SITE: AMB01 AMBROSIA LAKE
LOCATION: 0724
NORTH COORDINATE: 49715.0 FT
EAST COORDINATE: 56105.0 FT
06/10/80 TO 12/04/92
REPORT DATE: 08/04/94

FORMATION OF COMPLETION: DAKOTA SANDSTONE (KD)
HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TOTAL SUSPENDED SOLIDS	09/23/80	0001	MG/L		56.00		-	-
URANIUM	09/23/80	0001	MG/L		0.08		-	-
VANADIUM	09/23/80	0001	MG/L		0.007		-	-
ZINC	09/23/80	0001	MG/L		0.091		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0725
 NORTH COORDINATE: 51880.0 FT
 EAST COORDINATE: 54950.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: DAKOTA SANDSTONE (KD)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	09/23/80	0001	MG/L CaCO3		185.00		-	-
ALUMINUM	09/23/80	0001	MG/L		0.089		-	-
ARSENIC	09/23/80	0001	MG/L		0.005		-	-
BARIUM	09/23/80	0001	MG/L		0.017		-	-
BICARBONATE - HCO3	09/23/80	0001	MG/L		451.00		-	-
BORON	09/23/80	0001	MG/L		0.63		-	-
CADMIUM	09/23/80	0001	MG/L	<	0.008		0.008	-
CALCIUM	09/23/80	0001	MG/L		480.00		-	-
CHLORIDE	09/23/80	0001	MG/L		1186.00		-	-
CHROMIUM	09/23/80	0001	MG/L		0.027		-	-
COBALT	09/23/80	0001	MG/L	<	0.006		0.006	-
COPPER	09/23/80	0001	MG/L		0.001		-	-
FLUORIDE	09/23/80	0001	MG/L		0.13		-	-
IRON	09/23/80	0001	MG/L		0.025		-	-
LEAD	09/23/80	0001	MG/L		0.001		-	-
MAGNESIUM	09/23/80	0001	MG/L		550.00		-	-
MANGANESE	09/23/80	0001	MG/L		0.73		-	-
MERCURY	09/23/80	0001	MG/L	<	0.001		0.001	-
MOLYBDENUM	09/23/80	0001	MG/L		0.02		-	-
NICKEL	09/23/80	0001	MG/L		0.002		-	-
NITRATE	09/23/80	0001	MG/L		46.00		-	-
PH	09/23/80	0001	SU		7.30		-	-
POTASSIUM	09/23/80	0001	MG/L		9.10		-	-
RADIUM-226	09/23/80	0001	PCI/L		6.05		-	-
SELENIUM	09/23/80	0001	MG/L		0.25		-	-
SILVER	09/23/80	0001	MG/L	<	0.002		0.002	-
SODIUM	09/23/80	0001	MG/L		810.00		-	-
SPECIFIC CONDUCTANCE	09/23/80	0001	UMHO/CM		7170.00		-	-
SULFATE	09/23/80	0001	MG/L		2740.00		-	-
TOTAL DISSOLVED SOLIDS	09/23/80	0001	MG/L		6140.00		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
SITE: AMB01 AMBROSIA LAKE
LOCATION: 0725
NORTH COORDINATE: 51880.0 FT
EAST COORDINATE: 54950.0 FT
06/10/80 TO 12/04/92
REPORT DATE: 08/04/94

FORMATION OF COMPLETION: DAKOTA SANDSTONE (KD)
HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TOTAL SUSPENDED SOLIDS	09/23/80	0001	MG/L		33.00		-	-
URANIUM	09/23/80	0001	MG/L		0.11		-	-
VANADIUM	09/23/80	0001	MG/L		0.015		-	-
ZINC	09/23/80	0001	MG/L		0.16		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0726
 NORTH COORDINATE: 53980.0 FT
 EAST COORDINATE: 48560.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS-A SANDSTONE (TR)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	10/14/80	0001	MG/L CACO3		4.50		-	-
ALUMINUM	10/14/80	0001	MG/L		0.53		-	-
ARSENIC	10/14/80	0001	MG/L		0.03		-	-
BARIUM	10/14/80	0001	MG/L		0.018		-	-
BICARBONATE - HCO3	10/14/80	0001	MG/L		11.00		-	-
BORON	10/14/80	0001	MG/L		60.00		-	-
CADMIUM	10/14/80	0001	MG/L	<	0.008		0.008	-
CALCIUM	10/14/80	0001	MG/L		77.00		-	-
CHLORIDE	10/14/80	0001	MG/L		50.00		-	-
CHROMIUM	10/14/80	0001	MG/L	<	0.001		0.001	-
COBALT	10/14/80	0001	MG/L	<	0.006		0.006	-
COPPER	10/14/80	0001	MG/L		0.32		-	-
FLUORIDE	10/14/80	0001	MG/L		0.46		-	-
IRON	10/14/80	0001	MG/L		2.20		-	-
LEAD	10/14/80	0001	MG/L	<	0.001		0.001	-
MAGNESIUM	10/14/80	0001	MG/L		15.00		-	-
MANGANESE	10/14/80	0001	MG/L		0.15		-	-
MERCURY	10/14/80	0001	MG/L	<	0.001		0.001	-
MOLYBDENUM	10/14/80	0001	MG/L		0.05		-	-
NICKEL	10/14/80	0001	MG/L		0.027		-	-
NITRATE	10/14/80	0001	MG/L		20.00		-	-
PH	10/14/80	0001	SU		8.60		-	-
POTASSIUM	10/14/80	0001	MG/L		27.00		-	-
RADIUM-226	10/14/80	0001	PCI/L		7.13		-	-
SELENIUM	10/14/80	0001	MG/L		0.019		-	-
SILVER	10/14/80	0001	MG/L	<	0.002		0.002	-
SODIUM	10/14/80	0001	MG/L		240.00		-	-
SPECIFIC CONDUCTANCE	10/14/80	0001	UMHO/CM		1650.00		-	-
SULFATE	10/14/80	0001	MG/L		590.00		-	-
TOTAL DISSOLVED SOLIDS	10/14/80	0001	MG/L		1230.00		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
SITE: AMB01 AMBROSIA LAKE
LOCATION: 0726
NORTH COORDINATE: 53980.0 FT
EAST COORDINATE: 48560.0 FT
06/10/80 TO 12/04/92
REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS-A SANDSTONE (TR)
HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TOTAL SUSPENDED SOLIDS	10/14/80	0001	MG/L		248.00		-	-
URANIUM	10/14/80	0001	MG/L		0.05		-	-
VANADIUM	10/14/80	0001	MG/L		0.051		-	-
ZINC	10/14/80	0001	MG/L		1.30		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0727
 NORTH COORDINATE: 68980.0 FT
 EAST COORDINATE: 55960.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: WESTWATER CANYON MEMBER (JM)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	11/03/80	0001	MG/L CaCO3		44.30		-	-
ALUMINUM	11/03/80	0001	MG/L		50.00		-	-
ARSENIC	11/03/80	0001	MG/L		0.058		-	-
BARIUM	11/03/80	0001	MG/L		0.004		-	-
BICARBONATE - HCO3	11/03/80	0001	MG/L		108.00		-	-
BORON	11/03/80	0001	MG/L		0.14		-	-
CADMIUM	11/03/80	0001	MG/L	<	0.008		0.008	-
CALCIUM	11/03/80	0001	MG/L		43.00		-	-
CHLORIDE	11/03/80	0001	MG/L	<	10.00		10.	-
CHROMIUM	11/03/80	0001	MG/L	<	0.001		0.001	-
COBALT	11/03/80	0001	MG/L	<	0.006		0.006	-
COPPER	11/03/80	0001	MG/L		0.018		-	-
FLUORIDE	11/03/80	0001	MG/L	<	0.20		0.2	-
IRON	11/03/80	0001	MG/L		0.10		-	-
LEAD	11/03/80	0001	MG/L	<	0.001		0.001	-
MAGNESIUM	11/03/80	0001	MG/L		0.11		-	-
MANGANESE	11/03/80	0001	MG/L		0.027		-	-
MERCURY	11/03/80	0001	MG/L	<	0.001		0.001	-
MOLYBDENUM	11/03/80	0001	MG/L		0.14		-	-
NICKEL	11/03/80	0001	MG/L		0.10		-	-
NITRATE	11/03/80	0001	MG/L		20.00		-	-
PH	11/03/80	0001	SU		11.60		-	-
POTASSIUM	11/03/80	0001	MG/L		29.00		-	-
RADIUM-226	11/03/80	0001	PCI/L		1.25		-	-
SELENIUM	11/03/80	0001	MG/L	<	00.019		00.019	-
SILVER	11/03/80	0001	MG/L	<	0.002		0.002	-
SODIUM	11/03/80	0001	MG/L		320.00		-	-
SPECIFIC CONDUCTANCE	11/03/80	0001	UMHO/CM		1980.00		-	-
SULFATE	11/03/80	0001	MG/L		500.00		-	-
TOTAL DISSOLVED SOLIDS	11/03/80	0001	MG/L		1190.00		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
SITE: AMB01 AMBROSIA LAKE
LOCATION: 0727
NORTH COORDINATE: 68980.0 FT
EAST COORDINATE: 55960.0 FT
06/10/80 TO 12/04/92
REPORT DATE: 08/04/94

FORMATION OF COMPLETION: WESTWATER CANYON MEMBER (JM)
HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TOTAL SUSPENDED SOLIDS	11/03/80	0001	MG/L		6040.00		-	-
URANIUM	11/03/80	0001	MG/L		0.23		-	-
VANADIUM	11/03/80	0001	MG/L	<	0.003		0.003	-
ZINC	11/03/80	0001	MG/L		0.022		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0728
 NORTH COORDINATE: 52550.0 FT
 EAST COORDINATE: 44940.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: DAKOTA SANDSTONE (KD)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	09/29/80	0001	MG/L CaCO3		31.10		-	-
ALUMINUM	09/29/80	0001	MG/L	<	0.002		0.002	-
ARSENIC	09/29/80	0001	MG/L		0.01		-	-
BARIUM	09/29/80	0001	MG/L		0.052		-	-
BICARBONATE - HCO3	09/29/80	0001	MG/L		76.00		-	-
BORON	09/29/80	0001	MG/L		0.77		-	-
CADMIUM	09/29/80	0001	MG/L	<	0.008		0.008	-
CALCIUM	09/29/80	0001	MG/L		480.00		-	-
CHLORIDE	09/29/80	0001	MG/L		2805.00		-	-
CHROMIUM	09/29/80	0001	MG/L		0.09		-	-
COBALT	09/29/80	0001	MG/L	<	0.006		0.006	-
COPPER	09/29/80	0001	MG/L		0.002		-	-
FLUORIDE	09/29/80	0001	MG/L		1.60		-	-
IRON	09/29/80	0001	MG/L		67.00		-	-
LEAD	09/29/80	0001	MG/L		0.007		-	-
MAGNESIUM	09/29/80	0001	MG/L		1300.00		-	-
MANGANESE	09/29/80	0001	MG/L		58.00		-	-
MERCURY	09/29/80	0001	MG/L	<	0.001		0.001	-
MOLYBDENUM	09/29/80	0001	MG/L		0.005		-	-
NICKEL	09/29/80	0001	MG/L	<	0.001		0.001	-
NITRATE	09/29/80	0001	MG/L		15.00		-	-
PH	09/29/80	0001	SU		5.50		-	-
POTASSIUM	09/29/80	0001	MG/L		40.00		-	-
RADIUM-226	09/29/80	0001	PCI/L		3.32		-	-
SELENIUM	09/29/80	0001	MG/L		0.47		-	-
SILVER	09/29/80	0001	MG/L	<	0.002		0.002	-
SODIUM	09/29/80	0001	MG/L		2000.00		-	-
SPECIFIC CONDUCTANCE	09/29/80	0001	UMHO/CM		17100.00		-	-
SULFATE	09/29/80	0001	MG/L		7560.00		-	-
TOTAL DISSOLVED SOLIDS	09/29/80	0001	MG/L		14500.00		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
SITE: AMB01 AMBROSIA LAKE
LOCATION: 0728
NORTH COORDINATE: 52550.0 FT
EAST COORDINATE: 44940.0 FT
06/10/80 TO 12/04/92
REPORT DATE: 08/04/94

FORMATION OF COMPLETION: DAKOTA SANDSTONE (KD)
HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TOTAL SUSPENDED SOLIDS	09/29/80	0001	MG/L		151.00		-	-
URANIUM	09/29/80	0001	MG/L		0.07		-	-
VANADIUM	09/29/80	0001	MG/L		0.017		-	-
ZINC	09/29/80	0001	MG/L		0.11		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0729
 NORTH COORDINATE: 53350.0 FT
 EAST COORDINATE: 53510.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	09/02/80	0001	MG/L CaCO_3		116.00		-	-
ALUMINUM	09/02/80	0001	MG/L		0.68		-	-
ARSENIC	09/02/80	0001	MG/L	<	0.001		0.001	-
BARIUM	09/02/80	0001	MG/L		0.008		-	-
BICARBONATE - HCO_3	09/02/80	0001	MG/L		282.00		-	-
BORON	09/02/80	0001	MG/L		0.50		-	-
CADMIUM	09/02/80	0001	MG/L	<	0.008		0.008	-
CALCIUM	09/02/80	0001	MG/L		510.00		-	-
CHLORIDE	09/02/80	0001	MG/L		111.00		-	-
CHROMIUM	09/02/80	0001	MG/L	<	0.001		0.001	-
COBALT	09/02/80	0001	MG/L	<	0.006		0.006	-
COPPER	09/02/80	0001	MG/L	<	0.001		0.001	-
FLUORIDE	09/02/80	0001	MG/L		0.51		-	-
IRON	09/02/80	0001	MG/L		0.004		-	-
LEAD	09/02/80	0001	MG/L		0.001		-	-
MAGNESIUM	09/02/80	0001	MG/L		210.00		-	-
MANGANESE	09/02/80	0001	MG/L		0.001		-	-
MERCURY	09/02/80	0001	MG/L	<	0.001		0.001	-
MOLYBDENUM	09/02/80	0001	MG/L		0.007		-	-
NICKEL	09/02/80	0001	MG/L		0.008		-	-
NITRATE	09/02/80	0001	MG/L		32.00		-	-
PH	09/02/80	0001	SU		7.70		-	-
POTASSIUM	09/02/80	0001	MG/L		7.50		-	-
RADIUM-226	09/02/80	0001	PCI/L		0.46		-	-
SELENIUM	09/02/80	0001	MG/L		0.18		-	-
SILVER	09/02/80	0001	MG/L	<	0.002		0.002	-
SODIUM	09/02/80	0001	MG/L		360.00		-	-
SPECIFIC CONDUCTANCE	09/02/80	0001	UMHO/CM		4180.00		-	-
SULFATE	09/02/80	0001	MG/L		2500.00		-	-
TOTAL DISSOLVED SOLIDS	09/02/80	0001	MG/L		4070.00		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0729
 NORTH COORDINATE: 53350.0 FT
 EAST COORDINATE: 53510.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: UNKNOWN (N)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TOTAL SUSPENDED SOLIDS	09/02/80	0001	MG/L		15.00		-	-
URANIUM	09/02/80	0001	MG/L		0.075		-	-
VANADIUM	09/02/80	0001	MG/L		0.018		-	-
ZINC	09/02/80	0001	MG/L		0.014		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0737
 NORTH COORDINATE: 54291.3 FT
 EAST COORDINATE: 60397.3 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: URANIUM MILL TAILINGS (TA)
 HYDRAULIC FLOW RELATIONSHIP: ON-SITE (O)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	05/13/86	0001	MG/L CaCO3		6175.		-	-
ARSENIC	05/13/86	0001	MG/L	<	0.01		0.01	-
CADMIUM	05/13/86	0001	MG/L	<	0.001		0.001	-
CALCIUM	05/13/86	0001	MG/L		10.6		0.01	-
CHLORIDE	05/13/86	0001	MG/L		200.		1.	-
CHROMIUM	05/13/86	0001	MG/L		0.03		0.01	-
COBALT	05/13/86	0001	MG/L		0.1		0.05	-
FLUORIDE	05/13/86	0001	MG/L		15.		0.1	-
IRON	05/13/86	0001	MG/L		0.49		0.03	-
MAGNESIUM	05/13/86	0001	MG/L		3.01		0.001	-
MANGANESE	05/13/86	0001	MG/L		0.03		0.01	-
MOLYBDENUM	05/13/86	0001	MG/L		250.		0.01	-
NITRATE	05/13/86	0001	MG/L		10.		1.	-
PH	05/13/86	0001	SU		9.74		-	-
POTASSIUM	05/13/86	0001	MG/L		17.1		0.01	-
RADIUM-226	05/13/86	0001	PCI/L		71.		1.	11.
SELENIUM	05/13/86	0001	MG/L	<	0.005		0.005	-
SODIUM	05/13/86	0001	MG/L		6620.		0.002	-
SPECIFIC CONDUCTANCE	05/13/86	0001	UMHO/CM		14000.		-	-
STRONTIUM	05/13/86	0001	MG/L	<	0.1		0.1	-
SULFATE	05/13/86	0001	MG/L		7700.		0.1	-
TEMPERATURE	05/13/86	0001	C - DEGREE		14.		-	-
THORIUM-230	05/13/86	0001	PCI/L		58.		1.	11.
URANIUM	05/13/86	0001	MG/L		10.7		0.003	-
VANADIUM	05/13/86	0001	MG/L		0.57		0.01	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0743
 NORTH COORDINATE: 53782.5 FT
 EAST COORDINATE: 60188.6 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: URANIUM MILL TAILINGS (TA)
 HYDRAULIC FLOW RELATIONSHIP: ON-SITE (O)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	05/13/86	0001	MG/L CACO3		6371.		-	-
ARSENIC	05/13/86	0001	MG/L	<	0.01		0.01	-
CADMIUM	05/13/86	0001	MG/L	<	0.001		0.001	-
CALCIUM	05/13/86	0001	MG/L		16.2		0.01	-
CHLORIDE	05/13/86	0001	MG/L		110.		1.	-
CHROMIUM	05/13/86	0001	MG/L		0.1		0.01	-
COBALT	05/13/86	0001	MG/L		0.1		0.05	-
FLUORIDE	05/13/86	0001	MG/L		19.		0.1	-
IRON	05/13/86	0001	MG/L		0.47		0.03	-
MAGNESIUM	05/13/86	0001	MG/L		5.65		0.001	-
MANGANESE	05/13/86	0001	MG/L		0.02		0.01	-
MOLYBDENUM	05/13/86	0001	MG/L		161.		0.01	-
NITRATE	05/13/86	0001	MG/L		6.		1.	-
PH	05/13/86	0001	SU		9.71		-	-
POTASSIUM	05/13/86	0001	MG/L		25.		0.01	-
SELENIUM	05/13/86	0001	MG/L	<	0.005		0.005	-
SODIUM	05/13/86	0001	MG/L		5920.		0.002	-
SPECIFIC CONDUCTANCE	05/13/86	0001	UMHO/CM		16500.		-	-
STRONTIUM	05/13/86	0001	MG/L		0.2		0.1	-
SULFATE	05/13/86	0001	MG/L		7890.		0.1	-
TEMPERATURE	05/13/86	0001	C - DEGREE		18.		-	-
URANIUM	05/13/86	0001	MG/L		2.17		0.003	-
VANADIUM	05/13/86	0001	MG/L		0.56		0.01	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0746
 NORTH COORDINATE: 54193.0 FT
 EAST COORDINATE: 60806.8 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: URANIUM MILL TAILINGS (TA)
 HYDRAULIC FLOW RELATIONSHIP: ON-SITE (O)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	09/26/85	0001	MG/L CaCO3		4341.		-	-
ALUMINUM	09/26/85	0001	MG/L		0.4		0.1	-
AMMONIUM	09/26/85	0001	MG/L		0.2		0.1	-
ANTIMONY	09/26/85	0001	MG/L	<	0.003		0.003	-
ARSENIC	09/26/85	0001	MG/L	<	0.01		0.01	-
BARIUM	09/26/85	0001	MG/L		0.3		0.1	-
BORON	09/26/85	0001	MG/L		0.7		0.1	-
CADMIUM	09/26/85	0001	MG/L	<	0.001		0.001	-
CALCIUM	09/26/85	0001	MG/L		4.32		0.01	-
CHLORIDE	09/26/85	0001	MG/L		12.		1.	-
CHROMIUM	09/26/85	0001	MG/L		0.03		0.01	-
COBALT	09/26/85	0001	MG/L		0.08		0.05	-
COPPER	09/26/85	0001	MG/L		0.04		0.02	-
CYANIDE	09/26/85	0001	MG/L	<	0.01		0.01	-
FLUORIDE	09/26/85	0001	MG/L		19.		0.1	-
IRON	09/26/85	0001	MG/L		0.21		0.03	-
LEAD	09/26/85	0001	MG/L	<	0.01		0.01	-
MAGNESIUM	09/26/85	0001	MG/L		1.29		0.001	-
MANGANESE	09/26/85	0001	MG/L		0.02		0.01	-
MERCURY	09/26/85	0001	MG/L	<	0.0002		0.0002	-
MOLYBDENUM	09/26/85	0001	MG/L		113.		0.01	-
NICKEL	09/26/85	0001	MG/L		0.14		0.04	-
NITRATE	09/26/85	0001	MG/L		3.		1.	-
NITRITE	09/26/85	0001	MG/L	<	0.1		0.1	-
PH	09/26/85	0001	SU		9.97		-	-
PHOSPHATE	09/26/85	0001	MG/L		14.		0.1	-
POTASSIUM	09/26/85	0001	MG/L		16.8		0.01	-
RADIUM-226	09/26/85	0001	PCI/L		140.		1.	10.
RADIUM-226 + RADIUM-228	09/26/85	0001	PCI/L		140.00		-	-
RADIUM-228	09/26/85	0001	PCI/L		0.		1.	3.3

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0746
 NORTH COORDINATE: 54193.0 FT
 EAST COORDINATE: 60806.8 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: URANIUM MILL TAILINGS (TA)
 HYDRAULIC FLOW RELATIONSHIP: ON-SITE (O)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SELENIUM	09/26/85	0001	MG/L	<	0.005		0.005	-
SILICA - SiO2	09/26/85	0001	MG/L		13.		2.	-
SILVER	09/26/85	0001	MG/L	<	0.01		0.01	-
SODIUM	09/26/85	0001	MG/L		4810.		0.002	-
SPECIFIC CONDUCTANCE	09/26/85	0001	UMHO/CM		14000.		-	-
STRONTIUM	09/26/85	0001	MG/L	<	0.1		0.1	-
SULFATE	09/26/85	0001	MG/L		5890.		0.1	-
SULFIDE	09/26/85	0001	MG/L	<	0.1		0.1	-
TEMPERATURE	09/26/85	0001	C - DEGREE		18.		-	-
THORIUM-230	09/26/85	0001	PCI/L		34.		1.	9.0
TIN	09/26/85	0001	MG/L	<	0.005		0.005	-
TOTAL DISSOLVED SOLIDS	09/26/85	0001	MG/L		13600.		10.	-
URANIUM	09/26/85	0001	MG/L		1.32		0.003	-
VANADIUM	09/26/85	0001	MG/L		0.09		0.01	-
ZINC	09/26/85	0001	MG/L		0.04		0.005	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0747
 NORTH COORDINATE: 53990.5 FT
 EAST COORDINATE: 60805.1 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: ON-SITE (O)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	09/26/85	0001	MG/L CaCO3		397.		-	-
ALUMINUM	09/26/85	0001	MG/L		0.4		0.1	-
AMMONIUM	09/26/85	0001	MG/L		1.2		0.1	-
ANTIMONY	09/26/85	0001	MG/L	<	0.003		0.003	-
ARSENIC	09/26/85	0001	MG/L	<	0.01		0.01	-
BARIUM	09/26/85	0001	MG/L		0.1		0.1	-
BORON	09/26/85	0001	MG/L		0.6		0.1	-
CADMIUM	09/26/85	0001	MG/L	<	0.001		0.001	-
CALCIUM	09/26/85	0001	MG/L		320.		0.01	-
CHLORIDE	09/26/85	0001	MG/L		190.		1.	-
CHROMIUM	09/26/85	0001	MG/L		0.04		0.01	-
COBALT	09/26/85	0001	MG/L		0.09		0.05	-
COPPER	09/26/85	0001	MG/L		0.05		0.02	-
CYANIDE	09/26/85	0001	MG/L	<	0.1		0.1	-
FLUORIDE	09/26/85	0001	MG/L		2.8		0.1	-
IRON	09/26/85	0001	MG/L		0.29		0.03	-
LEAD	09/26/85	0001	MG/L	<	0.01		0.01	-
LEAD-210	09/26/85	0001	PCI/L		21.		1.5	3.
MAGNESIUM	09/26/85	0001	MG/L		82.8		0.001	-
MANGANESE	09/26/85	0001	MG/L		0.1		0.01	-
MERCURY	09/26/85	0001	MG/L	<	0.0002		0.0002	-
MOLYBDENUM	09/26/85	0001	MG/L		48.7		0.01	-
NICKEL	09/26/85	0001	MG/L		0.14		0.04	-
NITRATE	09/26/85	0001	MG/L		3.		1.	-
NITRITE	09/26/85	0001	MG/L	<	0.1		0.1	-
PH	09/26/85	0001	SU		8.11		-	-
PHOSPHATE	09/26/85	0001	MG/L		0.4		0.1	-
POTASSIUM	09/26/85	0001	MG/L		24.2		0.01	-
RADIUM-226	09/26/85	0001	PCI/L		190.		1.	20.
RADIUM-226 + RADIUM-228	09/26/85	0001	PCI/L		190.00		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0747
 NORTH COORDINATE: 53990.5 FT
 EAST COORDINATE: 60805.1 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: ON-SITE (O)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
RADIUM-228	09/26/85	0001	PCI/L		0.		1.	4.9
SELENIUM	09/26/85	0001	MG/L	<	0.005		0.005	-
SILICA - SIO2	09/26/85	0001	MG/L		15.		2.	-
SILVER	09/26/85	0001	MG/L	<	0.01		0.01	-
SODIUM	09/26/85	0001	MG/L		2500.		0.002	-
SPECIFIC CONDUCTANCE	09/26/85	0001	UMHO/CM		10000.		-	-
STRONTIUM	09/26/85	0001	MG/L		3.9		0.1	-
SULFATE	09/26/85	0001	MG/L		5940.		0.1	-
SULFIDE	09/26/85	0001	MG/L	<	0.1		0.1	-
TEMPERATURE	09/26/85	0001	C - DEGREE		15.		-	-
THORIUM-230	09/26/85	0001	PCI/L		0.9		1.	0.9
TIN	09/26/85	0001	MG/L	<	0.005		0.005	-
TOTAL DISSOLVED SOLIDS	09/26/85	0001	MG/L		9560.		10.	-
URANIUM	09/26/85	0001	MG/L		1.24		0.003	-
VANADIUM	09/26/85	0001	MG/L	<	0.01		0.01	-
ZINC	09/26/85	0001	MG/L		1.73		0.005	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0748
 NORTH COORDINATE: 53985.9 FT
 EAST COORDINATE: 60803.6 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: ON-SITE (O)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	05/13/86	0001	MG/L CaCO_3		681.		-	-
ARSENIC	05/13/86	0001	MG/L	<	0.01		0.01	-
CADMIUM	05/13/86	0001	MG/L	<	0.001		0.001	-
CALCIUM	05/13/86	0001	MG/L		412.		0.01	-
CHLORIDE	05/13/86	0001	MG/L		190.		1.	-
CHROMIUM	05/13/86	0001	MG/L		0.05		0.01	-
COBALT	05/13/86	0001	MG/L		0.12		0.05	-
IRON	05/13/86	0001	MG/L		0.44		0.03	-
MAGNESIUM	05/13/86	0001	MG/L		158.		0.001	-
MANGANESE	05/13/86	0001	MG/L		0.34		0.01	-
MOLYBDENUM	05/13/86	0001	MG/L		29.1		0.01	-
NITRATE	05/13/86	0001	MG/L		2.		1.	-
PH	05/13/86	0001	SU		7.41		-	-
POTASSIUM	05/13/86	0001	MG/L		18.2		0.01	-
RADIUM-226	05/13/86	0001	PCI/L		113.		1.	4.
SELENIUM	05/13/86	0001	MG/L	<	0.005		0.005	-
SODIUM	05/13/86	0001	MG/L		2030.		0.002	-
SPECIFIC CONDUCTANCE	05/13/86	0001	UMHO/CM		7000.		-	-
STRONTIUM	05/13/86	0001	MG/L		8.3		0.1	-
SULFATE	05/13/86	0001	MG/L		5650.		0.1	-
TEMPERATURE	05/13/86	0001	C - DEGREE		15.		-	-
THORIUM-230	05/13/86	0001	PCI/L		0.8		1.	1.6
TOTAL DISSOLVED SOLIDS	05/13/86	0001	MG/L		8720.		10.	-
URANIUM	05/13/86	0001	MG/L		5.84		0.003	-
VANADIUM	05/13/86	0001	MG/L		0.54		0.01	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0749
 NORTH COORDINATE: 53981.3 FT
 EAST COORDINATE: 60802.2 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: ON-SITE (O)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	05/13/86	0001	MG/L CaCO3		1172.		-	-
ARSENIC	05/13/86	0001	MG/L	<	0.01		0.01	-
CADMIUM	05/13/86	0001	MG/L	<	0.001		0.001	-
CALCIUM	05/13/86	0001	MG/L		408.		0.01	-
CHLORIDE	05/13/86	0001	MG/L		160.		1.	-
CHROMIUM	05/13/86	0001	MG/L		0.05		0.01	-
COBALT	05/13/86	0001	MG/L		0.11		0.05	-
IRON	05/13/86	0001	MG/L		5.49		0.03	-
MAGNESIUM	05/13/86	0001	MG/L		155.		0.001	-
MANGANESE	05/13/86	0001	MG/L		0.61		0.01	-
MOLYBDENUM	05/13/86	0001	MG/L		66.3		0.01	-
NITRATE	05/13/86	0001	MG/L		1.		1.	-
PH	05/13/86	0001	SU		7.45		-	-
POTASSIUM	05/13/86	0001	MG/L		16.		0.01	-
RADIUM-226	05/13/86	0001	PCI/L		117.		1.	8.
SELENIUM	05/13/86	0001	MG/L	<	0.005		0.005	-
SODIUM	05/13/86	0001	MG/L		2650.		0.002	-
SPECIFIC CONDUCTANCE	05/13/86	0001	UMHO/CM		9000.		-	-
STRONTIUM	05/13/86	0001	MG/L		9.1		0.1	-
SULFATE	05/13/86	0001	MG/L		5940.		0.1	-
TEMPERATURE	05/13/86	0001	C - DEGREE		15.		-	-
THORIUM-230	05/13/86	0001	PCI/L		1.9		1.	2.2
TOTAL DISSOLVED SOLIDS	05/13/86	0001	MG/L		9230.		10.	-
URANIUM	05/13/86	0001	MG/L		5.76		0.003	-
VANADIUM	05/13/86	0001	MG/L		0.55		0.01	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0750
 NORTH COORDINATE: 53977.5 FT
 EAST COORDINATE: 60801.1 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: URANIUM MILL TAILINGS (TA)
 HYDRAULIC FLOW RELATIONSHIP: ON-SITE (O)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	09/26/85 07/13/88	0001 0001	MG/L CAC03		2258. 6587.		- -	- -
ALUMINUM	09/26/85 07/13/88	0001 0001	MG/L		0.5 0.7		0.1 0.1	- -
AMMONIUM	09/26/85	0001	MG/L		0.2		0.1	-
ANTIMONY	09/26/85 07/13/88	0001 0001	MG/L		0.056 0.098		0.003 0.003	- -
ARSENIC	09/26/85 07/13/88	0001 0001	MG/L	<	0.01 0.30		0.01 0.01	- -
BARIUM	09/26/85 07/13/88	0001 0001	MG/L	<	0.1 0.1		0.1 0.1	- -
BORON	09/26/85 07/13/88	0001 0001	MG/L		0.3 0.2		0.1 0.1	- -
CADMIUM	09/26/85 07/13/88	0001 0001	MG/L	<	0.001 0.007		0.001 0.001	- -
CALCIUM	09/26/85 07/13/88	0001 0001	MG/L		36.7 4.21		0.01 0.01	- -
CHLORIDE	09/26/85 07/13/88	0001 0001	MG/L		22. 180.		1. 1.	- -
CHROMIUM	09/26/85 07/13/88	0001 0001	MG/L		0.04 0.09		0.01 0.01	- -
COBALT	09/26/85 07/13/88	0001 0001	MG/L	<	0.07 0.05		0.05 0.05	- -
COPPER	09/26/85 07/13/88	0001 0001	MG/L		0.05 0.08		0.02 0.02	- -
CYANIDE	09/26/85	0001	MG/L	<	0.01		0.01	-
FLUORIDE	09/26/85	0001	MG/L		21.		0.1	-
IRON	09/26/85 07/13/88	0001 0001	MG/L		0.23 0.16		0.03 0.03	- -
LEAD	09/26/85 07/13/88	0001 0001	MG/L	<	0.01 0.74		0.01 0.01	- -
LEAD-210	09/26/85	0001	PCI/L		55.		1.5	3.
MAGNESIUM	09/26/85 07/13/88	0001 0001	MG/L		18.1 3.89		0.001 0.001	- -
MANGANESE	09/26/85 07/13/88	0001 0001	MG/L		0.02 0.01		0.01 0.01	- -
MERCURY	09/26/85	0001	MG/L	<	0.0002		0.0002	-
MOLYBDENUM	09/26/85	0001	MG/L		95.9		0.01	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0750
 NORTH COORDINATE: 53977.5 FT
 EAST COORDINATE: 60801.1 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: URANIUM MILL TAILINGS (TA)
 HYDRAULIC FLOW RELATIONSHIP: ON-SITE (O)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
MOLYBDENUM	07/13/88	0001	MG/L		120.		0.01	-
NICKEL	09/26/85 07/13/88	0001 0001	MG/L	<	0.13 0.04		0.04 0.04	- -
NITRATE	09/26/85	0001	MG/L		1.		1.	-
NITRITE	09/26/85	0001	MG/L	<	0.1		0.1	-
PH	09/26/85 07/13/88	0001 0001	SU		9.61 10.06		- -	- -
PHOSPHATE	09/26/85 07/13/88	0001 0001	MG/L		4.8 15.9		0.1 0.1	- -
POTASSIUM	09/26/85 07/13/88	0001 0001	MG/L		22.3 31.		0.01 0.01	- -
RADIUM-226	09/26/85	0001	PCI/L		90.		1.	10.
RADIUM-226 + RADIUM-228	09/26/85	0001	PCI/L		90.10		-	-
RADIUM-228	09/26/85	0001	PCI/L		0.1		1.	3.2
SELENIUM	09/26/85 07/13/88	0001 0001	MG/L	<	0.005 0.320		0.005 0.005	- -
SILICA - SiO2	09/26/85 07/13/88	0001 0001	MG/L		9.0 5.5		2. 2.	- -
SILVER	09/26/85 07/13/88	0001 0001	MG/L	<	0.01 0.01		0.01 0.01	- -
SODIUM	09/26/85 07/13/88	0001 0001	MG/L		4190. 5880.		0.002 0.002	- -
SPECIFIC CONDUCTANCE	09/26/85 07/13/88	0001 0001	UMHO/CM		10000. 16000.		- -	- -
STRONTIUM	09/26/85 07/13/88	0001 0001	MG/L		0.5 0.2		0.1 0.1	- -
SULFATE	09/26/85 07/13/88	0001 0001	MG/L		6550. 6310.		0.1 0.1	- -
SULFIDE	09/26/85	0001	MG/L	<	0.1		0.1	-
TEMPERATURE	09/26/85 07/13/88	0001 0001	C - DEGREE		17. 18.		- -	- -
TIN	09/26/85 07/13/88	0001 0001	MG/L	<	0.005 0.398		0.005 0.005	- -
TOTAL DISSOLVED SOLIDS	09/26/85 07/13/88	0001 0001	MG/L		13100. 16700.		10. 10.	- -
URANIUM	09/26/85 07/13/88	0001 0001	MG/L		6.27 8.40		0.003 0.003	- -

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0750
 NORTH COORDINATE: 53977.5 FT
 EAST COORDINATE: 60801.1 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: URANIUM MILL TAILINGS (TA)
 HYDRAULIC FLOW RELATIONSHIP: ON-SITE (O)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
VANADIUM	09/26/85	0001	MG/L	<	0.01		0.01	-
	07/13/88	0001			0.30		0.01	-
ZINC	09/26/85	0001	MG/L		0.053		0.005	-
	07/13/88	0001			0.030		0.005	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0751
 NORTH COORDINATE: 53972.8 FT
 EAST COORDINATE: 60799.4 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: URANIUM MILL TAILINGS (TA)
 HYDRAULIC FLOW RELATIONSHIP: ON-SITE (O)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	10/09/85	0001	MG/L CaCO3		4501.		-	-
	10/09/85	0002			4501.		-	-
	10/09/85	0003			4501.		-	-
	10/09/85	0004			4501.		-	-
	10/09/85	0005			4501.		-	-
	07/13/88	0001			4512.		-	-
ALUMINUM	10/09/85	0001	MG/L		0.2		0.1	-
	10/09/85	0002			0.4		0.1	-
	10/09/85	0003			0.5		0.1	-
	10/09/85	0004			0.4		0.1	-
	10/09/85	0005			0.3		0.1	-
	07/13/88	0001			0.8		0.1	-
AMMONIUM	10/09/85	0001	MG/L		1.6		0.1	-
	10/09/85	0002			1.6		0.1	-
	10/09/85	0003			1.8		0.1	-
	10/09/85	0004			1.6		0.1	-
	10/09/85	0005			1.6		0.1	-
ANTIMONY	10/09/85	0001	MG/L	<	0.003		0.003	-
	10/09/85	0002		<	0.003		0.003	-
	10/09/85	0003		<	0.003		0.003	-
	10/09/85	0004		<	0.003		0.003	-
	10/09/85	0005		<	0.003		0.003	-
	07/13/88	0001			0.070		0.003	-
ARSENIC	10/09/85	0001	MG/L		0.01		0.01	-
	10/09/85	0002			0.01		0.01	-
	10/09/85	0003			0.01		0.01	-
	10/09/85	0004			0.01		0.01	-
	10/09/85	0005			0.01		0.01	-
	07/13/88	0001			0.10		0.01	-
BARIUM	10/09/85	0001	MG/L		0.1		0.1	-
	10/09/85	0002			0.1		0.1	-
	10/09/85	0003			0.1		0.1	-
	10/09/85	0004			0.1		0.1	-
	10/09/85	0005			0.1		0.1	-
	07/13/88	0001		<	0.1		0.1	-
BORON	10/09/85	0001	MG/L		0.4		0.1	-
	10/09/85	0002			0.4		0.1	-
	10/09/85	0003			0.3		0.1	-
	10/09/85	0004			0.3		0.1	-
	10/09/85	0005			0.4		0.1	-
	07/13/88	0001			0.2		0.1	-
CADMIUM	10/09/85	0001	MG/L	<	0.001		0.001	-
	10/09/85	0002		<	0.001		0.001	-
	10/09/85	0003		<	0.001		0.001	-
	10/09/85	0004		<	0.001		0.001	-
	10/09/85	0005		<	0.001		0.001	-
	07/13/88	0001			0.006		0.001	-
CALCIUM	10/09/85	0001	MG/L		1.94		0.01	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:

0001 - FILTERED SAMPLE (.45 MICRONS)
 0002 - FILTERED REPLICATE SAMPLE (.45 MICRONS)
 0003 - FILTERED REPLICATE SAMPLE (.45 MICRONS)
 0004 - FILTERED REPLICATE SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0751
 NORTH COORDINATE: 53972.8 FT
 EAST COORDINATE: 60799.4 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: URANIUM MILL TAILINGS (TA)
 HYDRAULIC FLOW RELATIONSHIP: ON-SITE (O)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CALCIUM	10/09/85	0002	MG/L		1.94		0.01	-
	10/09/85	0003			3.63		0.01	-
	10/09/85	0004			2.52		0.01	-
	10/09/85	0005			1.94		0.01	-
	07/13/88	0001			14.2		0.01	-
CHLORIDE	10/09/85	0001	MG/L		16.		1.	-
	10/09/85	0002			20.		1.	-
	10/09/85	0003			26.		1.	-
	10/09/85	0004			21.		1.	-
	10/09/85	0005			15.		1.	-
	07/13/88	0001			180.		1.	-
CHROMIUM	10/09/85	0001	MG/L		0.03		0.01	-
	10/09/85	0002			0.02		0.01	-
	10/09/85	0003			0.02		0.01	-
	10/09/85	0004			0.04		0.01	-
	10/09/85	0005			0.02		0.01	-
	07/13/88	0001			0.11		0.01	-
COBALT	10/09/85	0001	MG/L		0.08		0.05	-
	10/09/85	0002			0.07		0.05	-
	10/09/85	0003			0.07		0.05	-
	10/09/85	0004			0.06		0.05	-
	10/09/85	0005			0.07		0.05	-
	07/13/88	0001		<	0.05		0.05	-
COPPER	10/09/85	0001	MG/L		0.03		0.02	-
	10/09/85	0002			0.03		0.02	-
	10/09/85	0003			0.04		0.02	-
	10/09/85	0004			0.04		0.02	-
	10/09/85	0005			0.03		0.02	-
	07/13/88	0001			0.08		0.02	-
CYANIDE	10/09/85	0001	MG/L	<	0.01		0.01	-
	10/09/85	0002		<	0.01		0.01	-
	10/09/85	0003		<	0.01		0.01	-
	10/09/85	0004		<	0.01		0.01	-
	10/09/85	0005		<	0.01		0.01	-
FLUORIDE	10/09/85	0001	MG/L		14.		0.1	-
	10/09/85	0002			14.		0.1	-
	10/09/85	0003			14.		0.1	-
	10/09/85	0004			14.		0.1	-
	10/09/85	0005			1.4		0.1	-
IRON	10/09/85	0001	MG/L		0.13		0.03	-
	10/09/85	0002			0.1		0.03	-
	10/09/85	0003			0.15		0.03	-
	10/09/85	0004			0.18		0.03	-
	10/09/85	0005			0.12		0.03	-
	07/13/88	0001			0.30		0.03	-
LEAD	10/09/85	0001	MG/L	<	0.01		0.01	-
	10/09/85	0002		<	0.01		0.01	-
	10/09/85	0003		<	0.01		0.01	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:

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GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0751
 NORTH COORDINATE: 53972.8 FT
 EAST COORDINATE: 60799.4 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: URANIUM MILL TAILINGS (TA)
 HYDRAULIC FLOW RELATIONSHIP: ON-SITE (O)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
LEAD	10/09/85	0004	MG/L	<	0.01		0.01	-
	10/09/85	0005		<	0.01		0.01	-
	07/13/88	0001			0.02		0.01	-
LEAD-210	10/09/85	0001	PCI/L		52.		1.5	3.
	10/09/85	0002			48.		1.5	3.
	10/09/85	0003			90.		1.5	4.
	10/09/85	0004			52.		1.5	3.
MAGNESIUM	10/09/85	0001	MG/L		0.225		0.001	-
	10/09/85	0002			0.196		0.001	-
	10/09/85	0003			0.571		0.001	-
	10/09/85	0004			0.282		0.001	-
	10/09/85	0005			0.22		0.001	-
	07/13/88	0001			31.5		0.001	-
MANGANESE	10/09/85	0001	MG/L		0.03		0.01	-
	10/09/85	0002			0.02		0.01	-
	10/09/85	0003			0.02		0.01	-
	10/09/85	0004			0.04		0.01	-
	10/09/85	0005			0.04		0.01	-
	07/13/88	0001			0.02		0.01	-
MERCURY	10/09/85	0001	MG/L	<	0.0002		0.0002	-
	10/09/85	0002		<	0.0002		0.0002	-
	10/09/85	0003		<	0.0002		0.0002	-
	10/09/85	0004		<	0.0002		0.0002	-
	10/09/85	0005		<	0.0002		0.0002	-
MOLYBDENUM	10/09/85	0001	MG/L		99.0		0.01	-
	10/09/85	0002			102.		0.01	-
	10/09/85	0003			97.5		0.01	-
	10/09/85	0004			102.		0.01	-
	10/09/85	0005			104.		0.01	-
	07/13/88	0001			118.		0.01	-
NICKEL	10/09/85	0001	MG/L		0.13		0.04	-
	10/09/85	0002			0.15		0.04	-
	10/09/85	0003			0.18		0.04	-
	10/09/85	0004			0.13		0.04	-
	10/09/85	0005			0.13		0.04	-
	07/13/88	0001		<	0.04		0.04	-
NITRATE	10/09/85	0001	MG/L		3600.		1.	-
	10/09/85	0002			2600.		1.	-
	10/09/85	0003			4900.		1.	-
	10/09/85	0004			2500.		1.	-
	10/09/85	0005			350.		1.	-
NITRITE	10/09/85	0001	MG/L	<	0.1		0.1	-
	10/09/85	0002		<	0.1		0.1	-
	10/09/85	0003		<	0.1		0.1	-
	10/09/85	0004		<	0.1		0.1	-
	10/09/85	0005		<	0.1		0.1	-
PH	10/09/85	0001	SU		10.13		-	-

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GROUNDWATER QUALITY DATA BY LOCATION
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FORMATION OF COMPLETION: URANIUM MILL TAILINGS (TA)
 HYDRAULIC FLOW RELATIONSHIP: ON-SITE (O)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
PH	10/09/85	0002	SU		10.13		-	-
	10/09/85	0003			10.13		-	-
	10/09/85	0004			10.13		-	-
	10/09/85	0005			10.13		-	-
	07/13/88	0001			9.23		-	-
PHOSPHATE	10/09/85	0001	MG/L		15.		0.1	-
	10/09/85	0002			13.		0.1	-
	10/09/85	0003			17.		0.1	-
	10/09/85	0004			13.		0.1	-
	10/09/85	0005			14.		0.1	-
	07/13/88	0001			6.5		0.1	-
POTASSIUM	10/09/85	0001	MG/L		25.1		0.01	-
	10/09/85	0002			24.8		0.01	-
	10/09/85	0003			24.7		0.01	-
	10/09/85	0004			25.1		0.01	-
	10/09/85	0005			25.6		0.01	-
	07/13/88	0001			21.5		0.01	-
RADIUM-226	10/09/85	0001	PCI/L		220.		1.	20.
	10/09/85	0002			240.		1.	20.
	10/09/85	0003			190.		1.	10.
	10/09/85	0004			230.		1.	10.
	10/09/85	0005			200.		1.	10.
RADIUM-226 + RADIUM-228	10/09/85	0001	PCI/L		220.00		-	-
	10/09/85	0002			240.00		-	-
	10/09/85	0003			190.60		-	-
	10/09/85	0004			230.00		-	-
	10/09/85	0005			200.80		-	-
RADIUM-228	10/09/85	0001	PCI/L		0.		1.	3.9
	10/09/85	0002			0.		1.	4.
	10/09/85	0003			0.6		1.	4.7
	10/09/85	0004			0.		1.	3.1
	10/09/85	0005			0.8		1.	3.6
SELENIUM	10/09/85	0001	MG/L		0.019		0.005	-
	10/09/85	0002			0.015		0.005	-
	10/09/85	0003			0.015		0.005	-
	10/09/85	0004			0.016		0.005	-
	10/09/85	0005			0.018		0.005	-
	07/13/88	0001			0.294		0.005	-
SILICA - SiO2	10/09/85	0001	MG/L		10.		2.	-
	10/09/85	0002			10.		2.	-
	10/09/85	0003			10.		2.	-
	10/09/85	0004			10.		2.	-
	10/09/85	0005			10.		2.	-
	07/13/88	0001			6.6		2.	-
SILVER	10/09/85	0001	MG/L	<	0.01		0.01	-
	10/09/85	0002		<	0.01		0.01	-
	10/09/85	0003		<	0.01		0.01	-
	10/09/85	0004		<	0.01		0.01	-

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GROUNDWATER QUALITY DATA BY LOCATION
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FORMATION OF COMPLETION: URANIUM MILL TAILINGS (TA)
 HYDRAULIC FLOW RELATIONSHIP: ON-SITE (O)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SILVER	10/09/85 07/13/88	0005 0001	MG/L	<	0.01		0.01	-
					0.02		0.01	-
SODIUM	10/09/85	0001	MG/L		5240.		0.002	-
	10/09/85	0002			4870.		0.002	-
	10/09/85	0003			5860.		0.002	-
	10/09/85	0004			4870.		0.002	-
	10/09/85	0005			4840.		0.002	-
	07/13/88	0001			4600.		0.002	-
SPECIFIC CONDUCTANCE	10/09/85	0001	UMHO/CM		12000.		-	-
	10/09/85	0002			12000.		-	-
	10/09/85	0003			12000.		-	-
	10/09/85	0004			12000.		-	-
	10/09/85	0005			12000.		-	-
	07/13/88	0001			11000.		-	-
STRONTIUM	10/09/85	0001	MG/L	<	0.1		0.1	-
	10/09/85	0002		<	0.1		0.1	-
	10/09/85	0003		<	0.1		0.1	-
	10/09/85	0004		<	0.1		0.1	-
	10/09/85	0005		<	0.1		0.1	-
	07/13/88	0001			0.6		0.1	-
SULFATE	10/09/85	0001	MG/L		5416.		0.1	-
	10/09/85	0002			5130.		0.1	-
	10/09/85	0003			5400.		0.1	-
	10/09/85	0004			5320.		0.1	-
	10/09/85	0005			5290.		0.1	-
	07/13/88	0001			6130.		0.1	-
SULFIDE	10/09/85	0001	MG/L	<	0.1		0.1	-
	10/09/85	0002		<	0.1		0.1	-
	10/09/85	0003		<	0.1		0.1	-
	10/09/85	0004		<	0.1		0.1	-
	10/09/85	0005		<	0.1		0.1	-
TEMPERATURE	10/09/85	0001	C - DEGREE		15.		-	-
	10/09/85	0002			15.		-	-
	10/09/85	0003			15.		-	-
	10/09/85	0004			15.		-	-
	10/09/85	0005			15.		-	-
	07/13/88	0001			14.		-	-
THORIUM-230	10/09/85	0001	PCI/L		70.		1.	10.
	10/09/85	0002			60.		1.	10.
	10/09/85	0003			50.		1.	10.
	10/09/85	0004			50.		1.	10.
	10/09/85	0005			60.		1.	10.
TIN	10/09/85	0001	MG/L	<	0.005		0.005	-
	10/09/85	0002		<	0.005		0.005	-
	10/09/85	0003		<	0.005		0.005	-
	10/09/85	0004		<	0.005		0.005	-
	10/09/85	0005		<	0.005		0.005	-
	07/13/88	0001			0.338		0.005	-

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 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: URANIUM MILL TAILINGS (TA)
 HYDRAULIC FLOW RELATIONSHIP: ON-SITE (O)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TOTAL DISSOLVED SOLIDS	10/09/85	0001	MG/L		13300.		10.	-
	10/09/85	0002			12700.		10.	-
	10/09/85	0003			13100.		10.	-
	10/09/85	0004			13000.		10.	-
	10/09/85	0005			13000.		10.	-
	07/13/88	0001			14300.		10.	-
URANIUM	10/09/85	0001	MG/L		2.49		0.003	-
	10/09/85	0002			2.65		0.003	-
	10/09/85	0003			5.68		0.003	-
	10/09/85	0004			2.46		0.003	-
	10/09/85	0005			2.22		0.003	-
	07/13/88	0001			14.6		0.003	-
VANADIUM	10/09/85	0001	MG/L	<	0.01		0.01	-
	10/09/85	0002		<	0.01		0.01	-
	10/09/85	0003		<	0.01		0.01	-
	10/09/85	0004		<	0.01		0.01	-
	10/09/85	0005		<	0.01		0.01	-
	07/13/88	0001			0.15		0.01	-
ZINC	10/09/85	0001	MG/L		0.044		0.005	-
	10/09/85	0002			0.017		0.005	-
	10/09/85	0003			0.046		0.005	-
	10/09/85	0004			0.031		0.005	-
	10/09/85	0005			0.025		0.005	-
	07/13/88	0001			0.018		0.005	-

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GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0752
 NORTH COORDINATE: 53802.6 FT
 EAST COORDINATE: 60808.1 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: URANIUM MILL TAILINGS (TA)
 HYDRAULIC FLOW RELATIONSHIP: ON-SITE (O)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	09/26/85 07/13/88	0001 0001	MG/L CAC03		6828. 1637.		- -	- -
ALUMINUM	09/26/85 07/13/88	0001 0001	MG/L		0.4 0.2		0.1 0.1	- -
AMMONIUM	09/26/85	0001	MG/L	<	0.1		0.1	-
ANTIMONY	09/26/85 07/13/88	0001 0001	MG/L	<	0.003 0.088		0.003 0.003	- -
ARSENIC	09/26/85 07/13/88	0001 0001	MG/L	<	0.01 0.11		0.01 0.01	- -
BARIUM	09/26/85 07/13/88	0001 0001	MG/L	<	0.1 0.1		0.1 0.1	- -
BORON	09/26/85 07/13/88	0001 0001	MG/L		0.4 0.2		0.1 0.1	- -
BROMIDE	07/13/88	0001	MG/L	<	0.1		0.1	-
CADMIUM	09/26/85 07/13/88	0001 0001	MG/L	<	0.001 0.006		0.001 0.001	- -
CALCIUM	09/26/85 07/13/88	0001 0001	MG/L		4.28 4.05		0.01 0.01	- -
CHLORIDE	09/26/85 07/13/88	0001 0001	MG/L		6. 280.		1. 1.	- -
CHROMIUM	09/26/85 07/13/88	0001 0001	MG/L		0.02 0.04		0.01 0.01	- -
COBALT	09/26/85 07/13/88	0001 0001	MG/L	<	0.07 0.05		0.05 0.05	- -
COPPER	09/26/85 07/13/88	0001 0001	MG/L		0.04 0.03		0.02 0.02	- -
CYANIDE	09/26/85	0001	MG/L	<	0.01		0.01	-
FLUORIDE	09/26/85 07/13/88	0001 0001	MG/L		16. 4.3		0.1 0.1	- -
GROSS ALPHA	07/13/88	0001	PCI/L		3200.		0.2	300.
GROSS BETA	07/13/88	0001	PCI/L		1100.		1.	100.
IRON	09/26/85 07/13/88	0001 0001	MG/L		0.18 0.07		0.03 0.03	- -
LEAD	09/26/85 07/13/88	0001 0001	MG/L	<	0.01 0.03		0.01 0.01	- -
LEAD-210	09/26/85	0001	PCI/L		66.		1.5	3.
MAGNESIUM	09/26/85	0001	MG/L		2.3		0.001	-

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PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
MAGNESIUM	07/13/88	0001	MG/L		4.83		0.001	-
MANGANESE	09/26/85	0001	MG/L		0.02		0.01	-
	07/13/88	0001		<	0.01		0.01	-
MERCURY	09/26/85	0001	MG/L	<	0.0002		0.0002	-
	07/13/88	0001		<	0.0002		0.0002	-
MOLYBDENUM	09/26/85	0001	MG/L		148.		0.01	-
	07/13/88	0001			34.9		0.01	-
NET GROSS ALPHA *	07/13/88	0001	PCI/L		-929.72		-	-
NICKEL	09/26/85	0001	MG/L		0.13		0.04	-
	07/13/88	0001		<	0.04		0.04	-
NITRATE	09/26/85	0001	MG/L		3.		1.	-
NITRITE	09/26/85	0001	MG/L	<	0.1		0.1	-
PH	09/26/85	0001	SU		9.97		-	-
	07/13/88	0001			9.51		-	-
PHOSPHATE	09/26/85	0001	MG/L		19.		0.1	-
	07/13/88	0001			0.2		0.1	-
POTASSIUM	09/26/85	0001	MG/L		38.8		0.01	-
	07/13/88	0001			11.3		0.01	-
RADIUM-226	09/26/85	0001	PCI/L		22.		1.	4.
RADIUM-226 + RADIUM-228	09/26/85	0001	PCI/L		22.10		-	-
RADIUM-228	09/26/85	0001	PCI/L		0.1		1.	3.6
SELENIUM	09/26/85	0001	MG/L	<	0.005		0.005	-
	07/13/88	0001			0.371		0.005	-
SILICA - SiO2	09/26/85	0001	MG/L		12.		2.	-
	07/13/88	0001			1.3 J		2.	-
SILVER	09/26/85	0001	MG/L	<	0.01		0.01	-
	07/13/88	0001		<	0.01		0.01	-
SODIUM	09/26/85	0001	MG/L		5730.		0.002	-
	07/13/88	0001			4590.		0.002	-
SPECIFIC CONDUCTANCE	09/26/85	0001	UMHO/CM		17000.		-	-
	07/13/88	0001			12000.		-	-
STRONTIUM	07/13/88	0001	MG/L		0.2		0.1	-
SULFATE	09/26/85	0001	MG/L		6660.		0.1	-
	07/13/88	0001			8050.		0.1	-
SULFIDE	09/26/85	0001	MG/L	<	0.1		0.1	-

* NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

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 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0752
 NORTH COORDINATE: 53802.6 FT
 EAST COORDINATE: 60808.1 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: URANIUM MILL TAILINGS (TA)
 HYDRAULIC FLOW RELATIONSHIP: ON-SITE (O)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TEMPERATURE	09/26/85	0001	C - DEGREE		16.		-	-
	07/13/88	0001			16.		-	-
THORIUM-230	09/26/85	0001	PCI/L		420.		1.	30.
TIN	09/26/85	0001	MG/L	<	0.005		0.005	-
	07/13/88	0001			0.323		0.005	-
TOTAL DISSOLVED SOLIDS	09/26/85	0001	MG/L		17200.		10.	-
	07/13/88	0001			14000.		10.	-
URANIUM	09/26/85	0001	MG/L		8.65		0.003	-
	07/13/88	0001			6.02		0.003	-
VANADIUM	09/26/85	0001	MG/L	<	0.01		0.01	-
	07/13/88	0001			0.04		0.01	-
ZINC	09/26/85	0001	MG/L		0.078		0.005	-
	07/13/88	0001			0.037		0.005	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0759
 NORTH COORDINATE: 53623.2 FT
 EAST COORDINATE: 60219.3 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: URANIUM MILL TAILINGS (TA)
 HYDRAULIC FLOW RELATIONSHIP: ON-SITE (O)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALUMINUM	10/16/85	0001	MG/L		0.2		0.1	-
	07/15/88	0001			0.9		0.1	-
AMMONIUM	10/16/85	0001	MG/L		3.1		0.1	-
ANTIMONY	10/16/85	0001	MG/L	<	0.003		0.003	-
	07/15/88	0001			0.083		0.003	-
ARSENIC	10/16/85	0001	MG/L	<	0.01		0.01	-
	07/15/88	0001			0.17		0.01	-
BARIUM	10/16/85	0001	MG/L		0.1		0.1	-
	07/15/88	0001		<	0.1		0.1	-
BORON	10/16/85	0001	MG/L		0.3		0.1	-
	07/15/88	0001			0.2		0.1	-
CADMIUM	10/16/85	0001	MG/L	<	0.001		0.001	-
	07/15/88	0001			0.008		0.001	-
CALCIUM	10/16/85	0001	MG/L		8.38		0.01	-
	07/15/88	0001			1.70		0.01	-
CHLORIDE	07/15/88	0001	MG/L		240.		1.	-
CHROMIUM	10/16/85	0001	MG/L		0.02		0.01	-
	07/15/88	0001			0.11		0.01	-
COBALT	10/16/85	0001	MG/L	<	0.05		0.05	-
	07/15/88	0001			0.05		0.05	-
COPPER	10/16/85	0001	MG/L		0.03		0.02	-
	07/15/88	0001			0.09		0.02	-
CYANIDE	10/16/85	0001	MG/L	<	0.01		0.01	-
IRON	07/15/88	0001	MG/L		0.18		0.03	-
LEAD	10/16/85	0001	MG/L	<	0.01		0.01	-
	07/15/88	0001			0.02		0.01	-
MAGNESIUM	10/16/85	0001	MG/L		2.63		0.001	-
	07/15/88	0001			0.47		0.001	-
MANGANESE	10/16/85	0001	MG/L	<	0.03		0.01	-
	07/15/88	0001			0.01		0.01	-
MOLYBDENUM	10/16/85	0001	MG/L		247.		0.01	-
	07/15/88	0001			135.		0.01	-
NICKEL	07/15/88	0001	MG/L	<	0.04		0.04	-
NITRITE	10/16/85	0001	MG/L	<	0.1		0.1	-
PHOSPHATE	07/15/88	0001	MG/L		9.8		0.1	-
POTASSIUM	10/16/85	0001	MG/L		46.7		0.01	-
	07/15/88	0001			51.9		0.01	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0759
 NORTH COORDINATE: 53623.2 FT
 EAST COORDINATE: 60219.3 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: URANIUM MILL TAILINGS (TA)
 HYDRAULIC FLOW RELATIONSHIP: ON-SITE (O)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SELENIUM	10/16/85	0001	MG/L		0.017		0.005	-
	07/15/88	0001			0.403		0.005	-
SILICA - SiO2	07/15/88	0001	MG/L		10.7		2.	-
SILVER	10/16/85	0001	MG/L	<	0.01		0.01	-
	07/15/88	0001			0.02		0.01	-
SODIUM	10/16/85	0001	MG/L		9880.		0.002	-
	07/15/88	0001			5780.		0.002	-
STRONTIUM	07/15/88	0001	MG/L		0.2		0.1	-
SULFATE	10/16/85	0001	MG/L		11000.		0.1	-
	07/15/88	0001			8200.		0.1	-
SULFIDE	10/16/85	0001	MG/L	<	0.1		0.1	-
TIN	10/16/85	0001	MG/L	<	0.005		0.005	-
	07/15/88	0001			0.400		0.005	-
TOTAL DISSOLVED SOLIDS	10/16/85	0001	MG/L		25800.		10.	-
	07/15/88	0001			18800.		10.	-
URANIUM	07/15/88	0001	MG/L		12.6		0.003	-
VANADIUM	10/16/85	0001	MG/L	<	0.01		0.01	-
	07/15/88	0001			0.17		0.01	-
ZINC	10/16/85	0001	MG/L		0.025		0.005	-
	07/15/88	0001			0.014		0.005	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0773
 NORTH COORDINATE: 55311.5 FT
 EAST COORDINATE: 61688.9 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C1 SANDSTONE (TO)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	05/14/86	0001	MG/L CaCO3		2735.		-	-
ARSENIC	05/14/86	0001	MG/L	<	0.01		0.01	-
BORON	05/14/86	0001	MG/L		0.1		0.1	-
CADMIUM	05/14/86	0001	MG/L	<	0.001		0.001	-
CALCIUM	05/14/86	0001	MG/L		168.		0.01	-
CHLORIDE	05/14/86	0001	MG/L		10.		1.	-
CHROMIUM	05/14/86	0001	MG/L		0.05		0.01	-
COBALT	05/14/86	0001	MG/L		0.07		0.05	-
FLUORIDE	05/14/86	0001	MG/L		1.1		0.1	-
IRON	05/14/86	0001	MG/L		0.05		0.03	-
MAGNESIUM	05/14/86	0001	MG/L		0.022		0.001	-
MANGANESE	05/14/86	0001	MG/L		0.03		0.01	-
MOLYBDENUM	05/14/86	0001	MG/L		0.32		0.01	-
NITRATE	05/14/86	0001	MG/L		2.		1.	-
PH	05/14/86	0001	SU		12.41		-	-
POTASSIUM	05/14/86	0001	MG/L		56.5		0.01	-
RADIUM-226	05/14/86	0001	PCI/L		22.		1.	2.
SELENIUM	05/14/86	0001	MG/L	<	0.005		0.005	-
SODIUM	05/14/86	0001	MG/L		1140.		0.002	-
SPECIFIC CONDUCTANCE	05/14/86	0001	UMHO/CM		10000.		-	-
STRONTIUM	05/14/86	0001	MG/L		4.7		0.1	-
SULFATE	05/14/86	0001	MG/L		135.		0.1	-
TEMPERATURE	05/14/86	0001	C - DEGREE		17.		-	-
THORIUM-230	05/14/86	0001	PCI/L		0.		1.	0.1
TOTAL DISSOLVED SOLIDS	05/14/86	0001	MG/L		3040.		10.	-
URANIUM	05/14/86	0001	MG/L	<	0.0003	J	0.003	-
VANADIUM	05/14/86	0001	MG/L		0.21		0.01	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0777
 NORTH COORDINATE: 52881.7 FT
 EAST COORDINATE: 60119.8 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - B SANDSTONE (TB)
 HYDRAULIC FLOW RELATIONSHIP: UPGRADIENT (U)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	04/06/88	0001	MG/L CAC03		337.		-	-
	01/12/89	0001			256.		-	-
	09/19/89	0001			105.		-	-
	04/11/90	0001			69.		-	-
	01/22/91	0001			47.	G	-	-
ALUMINUM	04/06/88	0001	MG/L		0.28		0.1	-
	01/12/89	0001		<	0.05	J	0.1	-
	09/19/89	0001		<	0.1		0.1	-
	04/11/90	0001		<	0.1		0.1	-
	01/22/91	0001		<	0.05	G	0.05	-
AMMONIUM	04/06/88	0001	MG/L		7.6		0.1	-
	01/12/89	0001			5.09		0.1	-
	09/19/89	0001			2.2		0.1	-
	04/11/90	0001			1.6		0.1	-
	01/22/91	0001			1.56	G	0.01	-
ANTIMONY	04/06/88	0001	MG/L		0.009		0.003	-
	01/12/89	0001			0.007		0.003	-
	09/19/89	0001			0.047		0.003	-
	04/11/90	0001			0.099		0.003	-
	01/22/91	0001			0.003	G	0.003	-
ARSENIC	04/06/88	0001	MG/L		0.012		0.01	-
	01/12/89	0001			0.005	J	0.01	-
	09/19/89	0001		<	0.01		0.01	-
	04/11/90	0001			0.01		0.01	-
	01/22/91	0001		<	0.03	GI	0.03	-
BARIUM	04/06/88	0001	MG/L		0.03	J	0.1	-
	01/12/89	0001			0.02	J	0.1	-
	09/19/89	0001		<	0.1		0.1	-
	04/11/90	0001		<	0.1		0.1	-
	01/22/91	0001			0.04	G	0.01	-
BERYLLIUM	01/12/89	0001	MG/L	<	0.005		0.005	-
	09/19/89	0001		<	0.01		0.01	-
	04/11/90	0001		<	0.01		0.01	-
	01/22/91	0001		<	0.005	G	0.005	-
BORON	04/06/88	0001	MG/L		0.11		0.1	-
	01/12/89	0001			0.16		0.1	-
	09/19/89	0001			0.3		0.1	-
	04/11/90	0001			0.2		0.1	-
	01/22/91	0001			0.29	G	0.05	-
BROMIDE	04/06/88	0001	MG/L	<	0.1		0.1	-
	01/12/89	0001			0.19		0.01	-
	09/19/89	0001		<	0.1		0.1	-
	04/11/90	0001			0.5	J	0.1	-
	01/22/91	0001			0.4	G	0.1	-
CADMIUM	04/06/88	0001	MG/L		0.006		0.001	-
	01/12/89	0001		<	0.0001	J	0.001	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:

G - PH > 9, POSSIBLE GROUT CONTAMINATION
 I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0777
 NORTH COORDINATE: 52881.7 FT
 EAST COORDINATE: 60119.8 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - B SANDSTONE (TB)
 HYDRAULIC FLOW RELATIONSHIP: UPGRADIENT (U)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CADMIUM	09/19/89	0001	MG/L		0.002		0.001	-
	04/11/90	0001		<	0.001		0.001	-
	01/22/91	0001		<	0.001	G	0.001	-
CALCIUM	04/06/88	0001	MG/L		57.2		0.01	-
	01/12/89	0001			42.		0.01	-
	09/19/89	0001			133.		0.01	-
	04/11/90	0001			83.7		0.01	-
	01/22/91	0001			134.	G	0.5	-
CHLORIDE	04/06/88	0001	MG/L		32.		1.	-
	01/12/89	0001			30.		1.	-
	09/19/89	0001			33.		1.	-
	04/11/90	0001			39.		1.	-
	01/22/91	0001			38.	G	0.5	-
CHROMIUM	04/06/88	0001	MG/L		0.04		0.01	-
	01/12/89	0001		<	0.01		0.01	-
	09/19/89	0001		<	0.01		0.01	-
	04/11/90	0001		<	0.01		0.01	-
	01/22/91	0001		<	0.01	G	0.01	-
COBALT	04/06/88	0001	MG/L		0.01	J	0.05	-
	01/12/89	0001		<	0.01	J	0.05	-
	09/19/89	0001		<	0.05		0.05	-
	04/11/90	0001		<	0.05		0.05	-
	01/22/91	0001		<	0.03	G	0.03	-
COPPER	04/06/88	0001	MG/L		0.02		0.02	-
	01/12/89	0001		<	0.01	J	0.02	-
	09/19/89	0001		<	0.02		0.02	-
	04/11/90	0001		<	0.02		0.02	-
	01/22/91	0001		<	0.01	G	0.01	-
CYANIDE	01/12/89	0001	MG/L		0.004	J	0.01	-
	09/19/89	0001		<	0.01		0.01	-
	04/11/90	0001		<	0.01		0.01	-
	01/22/91	0001		<	0.01	G	0.01	-
FLUORIDE	04/06/88	0001	MG/L		0.95		0.1	-
	01/12/89	0001			0.9		0.1	-
	09/19/89	0001			0.4		0.1	-
	04/11/90	0001			0.4		0.1	-
	01/22/91	0001			0.2	G	0.1	-
GROSS ALPHA	04/06/88	0001	PCI/L		6.		0.2	15.
	01/12/89	0001			18.8	J	1.	18.6
	09/19/89	0001			11.		1.	17.
	04/11/90	0001			17.		1.	13.
	01/22/91	0001			39.7	G	1.	36.5
GROSS BETA	04/06/88	0001	PCI/L		19.		1.	9.0
	01/12/89	0001			32.8		0.5	24.2
	09/19/89	0001			21.		0.5	9.0
	04/11/90	0001			28.		0.5	11.
	01/22/91	0001			36.8	G	0.5	17.9

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
 G - PH > 9, POSSIBLE GROUT CONTAMINATION
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0777
 NORTH COORDINATE: 52881.7 FT
 EAST COORDINATE: 60119.8 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - B SANDSTONE (TB)
 HYDRAULIC FLOW RELATIONSHIP: UPGRADIENT (U)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
IRON	04/06/88	0001	MG/L		0.03		0.03	-
	01/12/89	0001		<	0.02	J	0.03	-
	09/19/89	0001			0.05		0.03	-
	04/11/90	0001		<	0.03		0.03	-
	01/22/91	0001		<	0.03	G	0.03	-
LEAD	04/06/88	0001	MG/L		0.01		0.01	-
	01/12/89	0001		<	0.001	J	0.01	-
	09/19/89	0001			0.05		0.01	-
	04/11/90	0001		<	0.01		0.01	-
	01/22/91	0001		<	0.03	GI	0.03	-
LEAD-210	04/06/88	0001	PCI/L		0.4		1.5	1.1
	01/12/89	0001			0.00		1.5	5.35
	09/19/89	0001			0.1		1.5	0.7
MAGNESIUM	04/06/88	0001	MG/L		0.27		0.001	-
	01/12/89	0001		<	1.		1.	-
	09/19/89	0001			20.5		0.001	-
	04/11/90	0001			12.9		0.001	-
	01/22/91	0001			22.5	G	0.1	-
MANGANESE	04/06/88	0001	MG/L	<	0.01		0.01	-
	01/12/89	0001		<	0.01		0.01	-
	09/19/89	0001		<	0.01		0.01	-
	04/11/90	0001		<	0.01		0.01	-
	01/22/91	0001		<	0.01	G	0.01	-
MERCURY	04/06/88	0001	MG/L	<	0.0002		0.0002	-
	01/12/89	0001		<	0.0001	J	0.0002	-
	09/19/89	0001		<	0.0002		0.0002	-
	04/11/90	0001		<	0.0002		0.0002	-
	01/22/91	0001		<	0.0002	G	0.0002	-
MOLYBDENUM	04/06/88	0001	MG/L		0.10		0.01	-
	01/12/89	0001			0.028		0.01	-
	09/19/89	0001			0.02		0.01	-
	04/11/90	0001			0.06		0.01	-
	01/22/91	0001			0.01	G	0.01	-
NET GROSS ALPHA *	04/06/88	0001	PCI/L		4.97		-	-
	01/12/89	0001			12.63		-	-
	09/19/89	0001			9.63		-	-
	04/11/90	0001			16.31		-	-
	01/22/91	0001			39.36		-	-
NICKEL	04/06/88	0001	MG/L		0.02	J	0.04	-
	01/12/89	0001		<	0.02	J	0.04	-
	09/19/89	0001		<	0.04		0.04	-
	04/11/90	0001		<	0.04		0.04	-
	01/22/91	0001		<	0.04	G	0.04	-
NITRATE	04/06/88	0001	MG/L		0.9	J	1.	-

* NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:

G - PH > 9, POSSIBLE GROUT CONTAMINATION
 I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0777
 NORTH COORDINATE: 52881.7 FT
 EAST COORDINATE: 60119.8 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - B SANDSTONE (TB)
 HYDRAULIC FLOW RELATIONSHIP: UPGRADIENT (U)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
NITRATE	01/12/89	0001	MG/L	<	1.94		1.	-
	09/19/89	0001			1.		1.	-
	04/11/90	0001			1.7		1.	-
	01/22/91	0001			2.2	G	0.1	-
NITRITE AND NITRATE	04/06/88	0001	MG/L		0.9	J	1.	-
	04/11/90	0001			0.4	J	1.	-
	01/22/91	0001			0.58	G	0.05	-
PH	04/06/88	0001	SU		11.93		-	-
	01/12/89	0001			11.65		-	-
	09/19/89	0001			11.20		-	-
	04/11/90	0001			9.92		-	-
	01/22/91	0001			10.63	G	-	-
PHOSPHATE	04/06/88	0001	MG/L	<	0.1		0.1	-
	01/12/89	0001		<	0.1		0.1	-
	09/19/89	0001		<	0.1		0.1	-
	04/11/90	0001		<	0.1		0.1	-
	01/22/91	0001		<	0.05	G	0.05	-
POLONIUM-210	04/06/88	0001	PCI/L		0.1		1.	0.4
	01/12/89	0001			0.466	J	1.	1.26
	09/19/89	0001			2.9		1.	0.7
POTASSIUM	04/06/88	0001	MG/L		18.6		0.01	-
	01/12/89	0001			19.8		0.01	-
	09/19/89	0001			13.7		0.01	-
	04/11/90	0001			12.9		0.01	-
	01/22/91	0001			9.0	G	0.01	-
RADIUM-226	04/06/88	0001	PCI/L		0.9		1.	0.3
	01/12/89	0001			0.352		1.	0.219
	09/19/89	0001			0.2		1.	0.2
	04/11/90	0001			0.6		1.	0.3
	01/22/91	0001			1.2	G	1.	0.5
RADIUM-226 + RADIUM-228	04/06/88	0001	PCI/L		1.20		-	-
	01/12/89	0001			0.35		-	-
	09/19/89	0001			0.40		-	-
	04/11/90	0001			1.40		-	-
	01/22/91	0001			3.20		-	-
RADIUM-228	04/06/88	0001	PCI/L		0.3		1.	0.7
	01/12/89	0001			0.00		1.	0.219
	09/19/89	0001			0.2		1.	0.9
	04/11/90	0001			0.8		1.	0.8
	01/22/91	0001			2.0	G	1.	1.9
SELENIUM	04/06/88	0001	MG/L		0.047		0.005	-
	01/12/89	0001			0.005		0.005	-
	09/19/89	0001			0.036		0.005	-
	04/11/90	0001		<	0.005		0.005	-
	01/22/91	0001		<	0.05	GI	0.05	-
SILICA - SiO2	04/06/88	0001	MG/L		39.9		2.	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:

G - PH > 9, POSSIBLE GROUT CONTAMINATION
 I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0777
 NORTH COORDINATE: 52881.7 FT
 EAST COORDINATE: 60119.8 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - B SANDSTONE (TB)
 HYDRAULIC FLOW RELATIONSHIP: UPGRADIENT (U)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SILICA - SiO2	01/12/89	0001	MG/L		30.2		2.	-
	09/19/89	0001			24.		2.	-
	04/11/90	0001			22.		2.	-
	01/22/91	0001			24.2	G	0.1	-
SILVER	04/06/88	0001	MG/L		0.01		0.01	-
	01/12/89	0001		<	0.01		0.01	-
	09/19/89	0001		<	0.01		0.01	-
	04/11/90	0001		<	0.01		0.01	-
	01/22/91	0001		<	0.01	G	0.01	-
SODIUM	04/06/88	0001	MG/L		599.		0.002	-
	01/12/89	0001			840.		0.002	-
	09/19/89	0001			816.		0.002	-
	04/11/90	0001			1074.		0.002	-
	01/22/91	0001			990.	GJ	5.	-
SPECIFIC CONDUCTANCE	04/06/88	0001	UMHO/CM		2700.		-	-
	01/12/89	0001			2525.		-	-
	09/19/89	0001			1980.		-	-
	04/11/90	0001			2100.		-	-
	01/22/91	0001			2900.	G	-	-
STRONTIUM	04/06/88	0001	MG/L		0.70		0.1	-
	01/12/89	0001			1.51		0.1	-
	09/19/89	0001			4.9		0.1	-
	04/11/90	0001			3.67		0.1	-
	01/22/91	0001			4.90	G	0.01	-
SULFATE	04/06/88	0001	MG/L		1210.		0.1	-
	01/12/89	0001			1632.		0.1	-
	09/19/89	0001			2030.		0.1	-
	04/11/90	0001			2180.		0.1	-
	01/22/91	0001			2250.	G	10.	-
SULFIDE	04/06/88	0001	MG/L	<	0.1		0.1	-
	01/12/89	0001		<	0.01	J	0.1	-
	09/19/89	0001		<	0.1		0.1	-
	04/11/90	0001			0.7		0.1	-
	01/22/91	0001			8.4	G	0.1	-
TEMPERATURE	04/06/88	0001	C - DEGREE		12.5		-	-
	01/12/89	0001			11.0		-	-
	09/19/89	0001			14.0		-	-
	04/11/90	0001			13.		-	-
	01/22/91	0001			11.	G	-	-
THALLIUM	01/12/89	0001	MG/L	<	0.005	I	0.005	-
	09/19/89	0001			0.01		0.01	-
	04/11/90	0001		<	0.01		0.01	-
	01/22/91	0001		<	0.03	GI	0.03	-
THORIUM-230	04/06/88	0001	PCI/L		0.0		1.	0.4
	01/12/89	0001			0.684		1.	0.166
	09/19/89	0001			0.0		1.	0.3

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 LOCATION: 0777
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 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - B SANDSTONE (TB)
 HYDRAULIC FLOW RELATIONSHIP: UPGRADIENT (U)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TIN	04/06/88	0001	MG/L		0.037		0.005	-
	01/12/89	0001			0.002	J	0.005	-
	09/19/89	0001			0.169		0.005	-
	04/11/90	0001			0.099		0.005	-
	01/22/91	0001		<	0.03	GI	0.03	-
TOTAL DISSOLVED SOLIDS	04/06/88	0001	MG/L		2120.		10.	-
	01/12/89	0001			2544.		10.	-
	09/19/89	0001			2950.		10.	-
	04/11/90	0001			3160.		10.	-
	01/22/91	0001			3320.	G	10.	-
TOTAL KJELDAHL NITROGEN	01/22/91	0001	MG/L		2.	G	1.	-
TOTAL ORGANIC CARBON	04/06/88	0001	MG/L		26.0		1.	-
	01/12/89	0001			13.		1.	-
	09/19/89	0001			5.3		1.	-
	04/11/90	0001			14.		1.	-
	01/22/91	0001			10.	G	1.	-
URANIUM	04/06/88	0001	MG/L	<	0.0003	J	0.003	-
	01/12/89	0001			0.009		0.003	-
	09/19/89	0001			0.0020	J	0.003	-
	04/11/90	0001			0.0010	J	0.003	-
	01/22/91	0001		<	0.001	G	0.001	-
VANADIUM	04/06/88	0001	MG/L		0.06		0.01	-
	01/12/89	0001			0.01		0.01	-
	09/19/89	0001			0.02		0.01	-
	04/11/90	0001		<	0.01		0.01	-
	01/22/91	0001		<	0.01	G	0.01	-
ZINC	04/06/88	0001	MG/L	<	0.005		0.005	-
	01/12/89	0001		<	0.01		0.01	-
	09/19/89	0001			0.010		0.005	-
	04/11/90	0001			0.007		0.005	-
	01/22/91	0001		<	0.005	G	0.005	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

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 I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0778
 NORTH COORDINATE: 52911.5 FT
 EAST COORDINATE: 60205.4 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C1 SANDSTONE (TO)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	10/11/85	0001	MG/L CaCO3		420.		-	-
	05/15/86	0001			411.		-	-
	04/06/88	0001			435.		-	-
	07/15/88	0001			389.		-	-
	01/08/89	0001			391.		-	-
	09/14/89	0001			380.		-	-
	03/31/90	0001			416.		-	-
	01/08/91	0001			534.		-	-
	11/25/92	0001			739		-	-
ALUMINUM	10/11/85	0001	MG/L		0.2		0.1	-
	04/06/88	0001			0.42		0.1	-
	07/15/88	0001			0.3		0.1	-
	01/08/89	0001		<	0.05	J	0.1	-
	09/14/89	0001			0.2		0.1	-
	03/31/90	0001		<	0.1		0.1	-
	01/08/91	0001			0.08		0.05	-
AMMONIUM	10/11/85	0001	MG/L		0.2		0.1	-
	04/06/88	0001		<	0.1		0.1	-
	07/15/88	0001		<	0.1		0.1	-
	01/08/89	0001			0.12		0.1	-
	09/14/89	0001		<	0.1		0.1	-
	03/31/90	0001		<	0.1		0.1	-
	01/08/91	0001			0.06		0.01	-
	11/25/92	0001		<	0.1		0.1	-
ANTIMONY	10/11/85	0001	MG/L	<	0.003		0.003	-
	04/06/88	0001			0.015		0.003	-
	07/15/88	0001			0.022		0.003	-
	01/08/89	0001			0.001	J	0.003	-
	09/14/89	0001		<	0.003		0.003	-
	03/31/90	0001			0.040		0.003	-
	01/08/91	0001		<	0.003		0.003	-
	11/25/92	0001		<	0.003		0.003	-
ARSENIC	10/11/85	0001	MG/L	<	0.01		0.01	-
	05/15/86	0001		<	0.01		0.01	-
	04/06/88	0001			0.022		0.01	-
	07/15/88	0001			0.01		0.01	-
	01/08/89	0001		<	0.001	J	0.01	-
	09/14/89	0001			0.01		0.01	-
	03/31/90	0001		<	0.01		0.01	-
	01/08/91	0001		<	0.03	I	0.03	-
BARIUM	10/11/85	0001	MG/L	<	0.1		0.1	-
	04/06/88	0001			0.02	J	0.1	-
	07/15/88	0001		<	0.1		0.1	-
	01/08/89	0001			0.01	J	0.1	-
	09/14/89	0001		<	0.1		0.1	-
	03/31/90	0001		<	0.1		0.1	-
	01/08/91	0001		<	0.01		0.01	-
BERYLLIUM	01/08/89	0001	MG/L	<	0.005		0.005	-
	09/14/89	0001		<	0.01		0.01	-
	03/31/90	0001		<	0.01		0.01	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
 I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0778
 NORTH COORDINATE: 52911.5 FT
 EAST COORDINATE: 60205.4 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C1 SANDSTONE (TO)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
BERYLLIUM	01/08/91	0001	MG/L	<	0.005		0.005	-
BORON	10/11/85	0001	MG/L		1.1		0.1	-
	05/15/86	0001			0.4		0.1	-
	04/06/88	0001			0.63		0.1	-
	07/15/88	0001			0.5		0.1	-
	01/08/89	0001			0.52		0.1	-
	09/14/89	0001			0.5		0.1	-
	03/31/90	0001			0.5		0.1	-
	01/08/91	0001			0.57		0.05	-
BROMIDE	04/06/88	0001	MG/L		2.1		0.1	-
	07/15/88	0001			2.5		0.1	-
	01/08/89	0001			3.10		0.01	-
	09/14/89	0001			0.43		0.1	-
	03/31/90	0001			1.2		0.1	-
	01/08/91	0001			1.8		0.1	-
CADMIUM	10/11/85	0001	MG/L	<	0.001		0.001	-
	05/15/86	0001		<	0.001		0.001	-
	04/06/88	0001			0.014		0.001	-
	07/15/88	0001		<	0.001		0.001	-
	01/08/89	0001		<	0.0001	J	0.001	-
	09/14/89	0001			0.014		0.001	-
	03/31/90	0001		<	0.001		0.001	-
	01/08/91	0001		<	0.001		0.001	-
	11/25/92	0001		<	0.001		0.001	-
CALCIUM	10/11/85	0001	MG/L		438.		0.01	-
	05/15/86	0001			524.		0.01	-
	04/06/88	0001			549.		0.01	-
	07/15/88	0001			479.		0.01	-
	01/08/89	0001			534.		0.01	-
	09/14/89	0001			535.		0.01	-
	03/31/90	0001			471.		0.01	-
	01/08/91	0001			477.		0.01	-
	11/25/92	0001			615.		2.	-
CHLORIDE	10/11/85	0001	MG/L		250.		1.	-
	05/15/86	0001			270.		1.	-
	04/06/88	0001			340.		1.	-
	07/15/88	0001			300.		1.	-
	01/08/89	0001			263.		1.	-
	09/14/89	0001			280.		1.	-
	03/31/90	0001			308.		1.	-
	01/08/91	0001			288.		0.5	-
	11/25/92	0001			247.		5.	-
CHROMIUM	10/11/85	0001	MG/L		0.03		0.01	-
	05/15/86	0001			0.05		0.01	-
	04/06/88	0001			0.22		0.01	-
	07/15/88	0001			0.17		0.01	-
	01/08/89	0001		<	0.01		0.01	-
	09/14/89	0001		<	0.01		0.01	-
	03/31/90	0001		<	0.01		0.01	-
	01/08/91	0001		<	0.01		0.01	-
	11/25/92	0001		<	0.05	I	0.05	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
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GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
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 NORTH COORDINATE: 52911.5 FT
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FORMATION OF COMPLETION: TRES HERMANOS - C1 SANDSTONE (TO)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
COBALT	10/11/85	0001	MG/L	<	0.05		0.05	-
	05/15/86	0001			0.08		0.05	-
	04/06/88	0001			0.04	J	0.05	-
	07/15/88	0001		<	0.05		0.05	-
	01/08/89	0001		<	0.01	J	0.05	-
	09/14/89	0001		<	0.05		0.05	-
	03/31/90	0001		<	0.05		0.05	-
	01/08/91	0001		<	0.03		0.03	-
	11/25/92	0001		<	0.03		0.03	-
COPPER	10/11/85	0001	MG/L		0.05		0.02	-
	04/06/88	0001			0.04		0.02	-
	07/15/88	0001			0.03		0.02	-
	01/08/89	0001		<	0.01	J	0.02	-
	09/14/89	0001		<	0.02		0.02	-
	03/31/90	0001		<	0.02		0.02	-
	01/08/91	0001		<	0.01		0.01	-
CYANIDE	10/11/85	0001	MG/L	<	0.01		0.01	-
	01/08/89	0001			0.103		0.01	-
	09/14/89	0001			0.01		0.01	-
	03/31/90	0001			0.21		0.01	-
	01/08/91	0001			0.27		0.01	-
FLUORIDE	10/11/85	0001	MG/L		0.5		0.1	-
	05/15/86	0001			0.6		0.1	-
	04/06/88	0001			0.43		0.1	-
	07/15/88	0001			0.4		0.1	-
	01/08/89	0001			0.5		0.1	-
	09/14/89	0001			0.4		0.1	-
	03/31/90	0001			0.4		0.1	-
	01/08/91	0001			0.4		0.1	-
	11/25/92	0001			0.4		0.1	-
GROSS ALPHA	04/06/88	0001	PCI/L		7800.		0.2	300.
	07/15/88	0001			9400.		0.2	300.
	01/08/89	0001			2880.	J	1.	236.
	09/14/89	0001			4700.		1.	200.
	03/31/90	0001			5900.		1.	200.
	01/08/91	0001			4037.		1.	221.
	11/25/92	0001			4650	H	1.0	237.
GROSS BETA	04/06/88	0001	PCI/L		2700.		1.	100.
	07/15/88	0001			2500.		1.	100.
	01/08/89	0001			2950.		0.5	132.
	09/14/89	0001			2600.		0.5	100.
	03/31/90	0001			300.		0.5	100.
	01/08/91	0001			2005.		0.5	75.6
	11/25/92	0001			2860.		69.3	110.
IRON	10/11/85	0001	MG/L		0.09		0.03	-
	05/15/86	0001			0.09		0.03	-
	04/06/88	0001			0.16		0.03	-
	07/15/88	0001			0.13		0.03	-
	01/08/89	0001			0.04		0.03	-
	09/14/89	0001			0.16		0.03	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

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OTHER PARAMETER VALUE FLAGS:
 H - HOLD TIME EXPIRED, VALUE SUSPECT
 J - ESTIMATED VALUE

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 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
IRON	03/31/90	0001	MG/L		0.18		0.03	-
	01/08/91	0001			0.08		0.03	-
	11/25/92	0001			0.17		0.03	-
LEAD	10/11/85	0001	MG/L	<	0.01		0.01	-
	04/06/88	0001			0.01		0.01	-
	07/15/88	0001			0.01		0.01	-
	01/08/89	0001			0.001	J	0.01	-
	09/14/89	0001			0.02		0.01	-
	03/31/90	0001		<	0.01		0.01	-
	01/08/91	0001		<	0.03	I	0.03	-
LEAD-210	10/11/85	0001	PCI/L		110.		1.5	4.
	04/06/88	0001			4.1		1.5	1.1
	07/15/88	0001			1.2		1.5	1.1
	01/08/89	0001			2.16		1.5	1.61
	09/14/89	0001			0.9		1.5	0.8
MAGNESIUM	10/11/85	0001	MG/L		171.		0.001	-
	05/15/86	0001			202.		0.001	-
	04/06/88	0001			191.		0.001	-
	07/15/88	0001			192.		0.001	-
	01/08/89	0001			205.		0.001	-
	09/14/89	0001			195.		0.001	-
	03/31/90	0001			176.		0.001	-
	01/08/91	0001			228.		0.5	-
	11/25/92	0001			205.		0.5	-
MANGANESE	10/11/85	0001	MG/L		0.06		0.01	-
	05/15/86	0001			0.13		0.01	-
	04/06/88	0001			0.06		0.01	-
	07/15/88	0001			0.06		0.01	-
	01/08/89	0001			0.01		0.01	-
	09/14/89	0001			0.02		0.01	-
	03/31/90	0001			0.02		0.01	-
	01/08/91	0001			0.03		0.01	-
MERCURY	10/11/85	0001	MG/L	<	0.0002		0.0002	-
	04/06/88	0001			0.0005		0.0002	-
	07/15/88	0001			0.0003		0.0002	-
	01/08/89	0001		<	0.0001	J	0.0002	-
	09/14/89	0001		<	0.0002		0.0002	-
	03/31/90	0001		<	0.0002		0.0002	-
	01/08/91	0001		<	0.0002		0.0002	-
MOLYBDENUM	10/11/85	0001	MG/L		0.16		0.01	-
	05/15/86	0001			0.13		0.01	-
	04/06/88	0001			0.06		0.01	-
	07/15/88	0001			0.06		0.01	-
	01/08/89	0001			0.003	J	0.01	-
	09/14/89	0001			0.02		0.01	-
	03/31/90	0001		<	0.01		0.01	-
	01/08/91	0001		<	0.01		0.01	-
	11/25/92	0001		<	0.01		0.01	-
NET GROSS ALPHA •	04/06/88	0001	PCI/L		1399.62		-	-

• NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:

0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:

I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0778
 NORTH COORDINATE: 52911.5 FT
 EAST COORDINATE: 60205.4 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C1 SANDSTONE (TO)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
NET GROSS ALPHA *	07/15/88	0001	PCI/L		3466.10		-	-
	01/08/89	0001			-2443.36		-	-
	09/14/89	0001			-801.72		-	-
	03/31/90	0001			-33.90		-	-
	01/08/91	0001			-2651.50		-	-
	11/25/92	0001			-1825.84		-	-
NICKEL	10/11/85	0001	MG/L		0.07		0.04	-
	04/06/88	0001			0.08		0.04	-
	07/15/88	0001			0.07		0.04	-
	01/08/89	0001		<	0.02	J	0.04	-
	09/14/89	0001		<	0.04		0.04	-
	03/31/90	0001		<	0.04		0.04	-
	01/08/91	0001		<	0.04		0.04	-
	11/25/92	0001			0.10		0.04	-
NITRATE	10/11/85	0001	MG/L		400.		1.	-
	05/15/86	0001			3.		1.	-
	04/06/88	0001			430.		1.	-
	07/15/88	0001			430.		1.	-
	01/08/89	0001			375.		1.	-
	09/14/89	0001			300.		1.	-
	03/31/90	0001			246.		1.	-
	01/08/91	0001			192.	J	0.1	-
	11/25/92	0001			194.		30.	-
NITRITE	10/11/85	0001	MG/L	<	0.1		0.1	-
NITRITE AND NITRATE	04/06/88	0001	MG/L		430.		1.	-
	03/31/90	0001			55.6		1.	-
	01/08/91	0001			45.6		0.05	-
PH	10/11/85	0001	SU		6.9		-	-
	05/15/86	0001			7.23		-	-
	04/06/88	0001			7.01		-	-
	07/15/88	0001			6.92		-	-
	01/08/89	0001			7.03		-	-
	09/14/89	0001			7.03		-	-
	03/31/90	0001			6.83		-	-
	01/08/91	0001			6.96		-	-
	11/25/92	0001			6.84		-	-
PHOSPHATE	10/11/85	0001	MG/L		0.5		0.1	-
	04/06/88	0001		<	0.1		0.1	-
	07/15/88	0001		<	0.1		0.1	-
	01/08/89	0001		<	0.1		0.1	-
	09/14/89	0001		<	0.1		0.1	-
	03/31/90	0001		<	0.1		0.1	-
	01/08/91	0001			0.14		0.05	-
	11/25/92	0001			0.4		0.1	-
POLONIUM-210	10/11/85	0001	PCI/L		1.1		1.	0.8
	04/06/88	0001			1.4		1.	0.6
	07/15/88	0001			1.2		1.	0.6
	01/08/89	0001			1.18		1.	1.72

• NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0778
 NORTH COORDINATE: 52911.5 FT
 EAST COORDINATE: 60205.4 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C1 SANDSTONE (TO)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
POLONIUM-210	09/14/89	0001	PCI/L		3.5		1.	0.7
POTASSIUM	10/11/85	0001	MG/L		24.5		0.01	-
	05/15/86	0001			4.18		0.01	-
	04/06/88	0001			2.75		0.01	-
	07/15/88	0001			3.6		0.01	-
	01/08/89	0001			2.3		0.01	-
	09/14/89	0001			2.1		0.01	-
	03/31/90	0001			1.9		0.01	-
	01/08/91	0001			3.7		0.01	-
	11/25/92	0001			3.49		0.01	-
RADIUM-226	10/11/85	0001	PCI/L		0.4		1.	0.2
	05/15/86	0001			2.5		1.	0.5
	04/06/88	0001			0.1		1.	0.1
	07/15/88	0001			0.2		1.	0.2
	01/08/89	0001			1.62		1.	0.356
	09/14/89	0001			0.4		1.	0.2
	03/31/90	0001			0.1		1.	0.2
	01/08/91	0001			0.4		1.	0.4
	11/25/92	0001			1.0		0.3	0.4
RADIUM-226 + RADIUM-228	10/11/85	0001	PCI/L		0.40		-	-
	04/06/88	0001			0.20		-	-
	07/15/88	0001			0.30		-	-
	01/08/89	0001			7.93		-	-
	09/14/89	0001			0.40		-	-
	03/31/90	0001			0.90		-	-
	01/08/91	0001			0.40		-	-
	11/25/92	0001			1.00		-	-
RADIUM-228	10/11/85	0001	PCI/L		0.		1.	1.2
	04/06/88	0001			0.1		1.	0.7
	07/15/88	0001			0.1		1.	0.7
	01/08/89	0001			6.31		1.	7.47
	09/14/89	0001			0.0		1.	0.8
	03/31/90	0001			0.8		1.	0.8
	01/08/91	0001			0.0		1.	1.8
	11/25/92	0001			0.0	H	1.0	1.4
SELENIUM	10/11/85	0001	MG/L	<	0.005		0.005	-
	05/15/86	0001		<	0.005		0.005	-
	04/06/88	0001			0.233		0.005	-
	07/15/88	0001			0.190		0.005	-
	01/08/89	0001			0.280		0.005	-
	09/14/89	0001			0.155		0.005	-
	03/31/90	0001			0.116		0.005	-
	01/08/91	0001			0.190		0.005	-
	11/25/92	0001			0.2		0.1	-
SILICA - SI02	10/11/85	0001	MG/L		15.		2.	-
	04/06/88	0001			15.8		2.	-
	07/15/88	0001			13.9		2.	-
	01/08/89	0001			13.1		2.	-
	09/14/89	0001			15.		2.	-
	03/31/90	0001			15.		2.	-
	01/08/91	0001			14.4		0.1	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
 H - HOLD TIME EXPIRED, VALUE SUSPECT

GROUNDWATER QUALITY DATA BY LOCATION
SITE: AMB01 AMBROSIA LAKE
LOCATION: 0778
NORTH COORDINATE: 52911.5 FT
EAST COORDINATE: 60205.4 FT
06/10/80 TO 12/04/92
REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C1 SANDSTONE (TO)
HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SILVER	10/11/85	0001	MG/L	<	0.01		0.01	-
	04/06/88	0001			0.06		0.01	-
	07/15/88	0001			0.04		0.01	-
	01/08/89	0001		<	0.01		0.01	-
	09/14/89	0001			0.02		0.01	-
	03/31/90	0001			0.01		0.01	-
	01/08/91	0001		<	0.01		0.01	-
	11/25/92	0001			0.01		0.01	-
SODIUM	10/11/85	0001	MG/L		965.		0.002	-
	05/15/86	0001			875.		0.002	-
	04/06/88	0001			769.		0.002	-
	07/15/88	0001			782.		0.002	-
	01/08/89	0001			870.		0.002	-
	09/14/89	0001			798.		0.002	-
	03/31/90	0001			734.		0.002	-
	01/08/91	0001			792.		5.	-
	11/25/92	0001			758.		5.	-
SPECIFIC CONDUCTANCE	10/11/85	0001	UMHO/CM		4500.		-	-
	05/15/86	0001			4700.		-	-
	04/06/88	0001			4200.		-	-
	07/15/88	0001			4100.		-	-
	01/08/89	0001			3300.		-	-
	09/14/89	0001			1610.		-	-
	03/31/90	0001			3700.		-	-
	01/08/91	0001			3900.		-	-
	11/25/92	0001			4400		-	-
STRONTIUM	10/11/85	0001	MG/L		10.		0.1	-
	05/15/86	0001			9.9		0.1	-
	04/06/88	0001			9.07		0.1	-
	07/15/88	0001			9.0		0.1	-
	01/08/89	0001			11.1		0.1	-
	09/14/89	0001			9.8		0.1	-
	03/31/90	0001			9.57		0.1	-
	01/08/91	0001			8.60		0.01	-
SULFATE	10/11/85	0001	MG/L		2930.		0.1	-
	05/15/86	0001			3150.		0.1	-
	04/06/88	0001			2820.		0.1	-
	07/15/88	0001			2600.		0.1	-
	01/08/89	0001			2964.		0.1	-
	09/14/89	0001			2840.		0.1	-
	03/31/90	0001			2600.		0.1	-
	01/08/91	0001			2730.		10.	-
	11/25/92	0001			2950.		10.	-
SULFIDE	10/11/85	0001	MG/L	<	0.1		0.1	-
	04/06/88	0001			0.1		0.1	-
	07/15/88	0001			0.1		0.1	-
	01/08/89	0001			0.01	J	0.1	-
	09/14/89	0001		<	0.1		0.1	-
	03/31/90	0001		<	0.1		0.1	-
	01/08/91	0001		<	0.1	J	0.1	-
TEMPERATURE	10/11/85	0001	C - DEGREE		12.		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0778
 NORTH COORDINATE: 52911.5 FT
 EAST COORDINATE: 60205.4 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C1 SANDSTONE (TO)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TEMPERATURE	05/15/86	0001	C - DEGREE		16.		-	-
	04/06/88	0001			11.5		-	-
	07/15/88	0001			12.0		-	-
	01/08/89	0001			11.5		-	-
	09/14/89	0001			12.0		-	-
	03/31/90	0001			11.5		-	-
	01/08/91	0001			12.		-	-
	11/25/92	0001			11.0		-	-
THALLIUM	01/08/89	0001	MG/L		0.002		0.001	-
	09/14/89	0001		<	0.01		0.01	-
	03/31/90	0001		<	0.01		0.01	-
	01/08/91	0001		<	0.03	I	0.03	-
THORIUM-230	10/11/85	0001	PCI/L		5.5		1.	1.4
	05/15/86	0001			3.		1.	1.
	04/06/88	0001			1.2		1.	0.8
	07/15/88	0001			0.0		1.	0.3
	01/08/89	0001			1.46		1.	0.152
	09/14/89	0001			0.0		1.	0.2
TIN	10/11/85	0001	MG/L	<	0.005		0.005	-
	04/06/88	0001			0.030		0.005	-
	07/15/88	0001			0.019		0.005	-
	01/08/89	0001		<	0.005		0.005	-
	09/14/89	0001			0.109		0.005	-
	03/31/90	0001			0.029		0.005	-
	01/08/91	0001		<	0.03	I	0.03	-
TOTAL DISSOLVED SOLIDS	10/11/85	0001	MG/L		5610.		10.	-
	05/15/86	0001			5920.		10.	-
	04/06/88	0001			5720.		10.	-
	07/15/88	0001			5820.		10.	-
	01/08/89	0001			5506.		10.	-
	09/14/89	0001			5180.		10.	-
	03/31/90	0001			4990.		10.	-
	01/08/91	0001			5340.		10.	-
	11/25/92	0001			5550.		10.	-
TOTAL KJELDAHL NITROGEN	01/08/91	0001	MG/L		1.		1.	-
	11/25/92	0001			1.		1.	-
TOTAL ORGANIC CARBON	10/11/85	0001	MG/L		81.		1.	-
	04/06/88	0001			136.		1.	-
	07/15/88	0001			113.		1.	-
	01/08/89	0001			18.		1.	-
	09/14/89	0001			97.9		1.	-
	03/31/90	0001			17.3		1.	-
	01/08/91	0001			18.	J	1.	-
	11/25/92	0001			16.		1.	-
URANIUM	10/11/85	0001	MG/L		11.8		0.003	-
	05/15/86	0001			9.31		0.003	-
	04/06/88	0001			9.33		0.003	-
	07/15/88	0001			8.65		0.003	-
	01/08/89	0001			7.760		0.003	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
 I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0778
 NORTH COORDINATE: 52911.5 FT
 EAST COORDINATE: 60205.4 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C1 SANDSTONE (TO)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
URANIUM	09/14/89	0001	MG/L		8.02		0.003	-
	03/31/90	0001			8.65		0.003	-
	01/08/91	0001			9.75		0.001	-
	11/25/92	0001			9.44	H	0.001	-
VANADIUM	10/11/85	0001	MG/L	<	0.01		0.01	-
	05/15/86	0001			0.23		0.01	-
	04/06/88	0001			0.09		0.01	-
	07/15/88	0001			0.07		0.01	-
	01/08/89	0001		<	0.01		0.01	-
	09/14/89	0001			0.02		0.01	-
	03/31/90	0001			0.02		0.01	-
	01/08/91	0001		<	0.01		0.01	-
	11/25/92	0001		<	0.2	I	0.2	-
ZINC	10/11/85	0001	MG/L		0.039		0.005	-
	04/06/88	0001			0.035		0.005	-
	07/15/88	0001			0.021		0.005	-
	01/08/89	0001		<	0.01		0.01	-
	09/14/89	0001		<	0.005		0.005	-
	03/31/90	0001			0.009		0.005	-
	01/08/91	0001		<	0.005		0.005	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
 H - HOLD TIME EXPIRED, VALUE SUSPECT
 I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0779
 NORTH COORDINATE: 52914.0 FT
 EAST COORDINATE: 60284.7 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C2 SANDSTONE (TT)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	10/10/85	0001	MG/L CaCO3		672.		-	-
	05/14/86	0001			747.		-	-
	04/06/88	0001			808.		-	-
	07/15/88	0001			895.		-	-
	01/11/89	0001			850.		-	-
	09/19/89	0001			788.		-	-
ALUMINUM	10/10/85	0001	MG/L		0.2		0.1	-
	04/06/88	0001			0.32		0.1	-
	07/15/88	0001			0.1		0.1	-
	01/11/89	0001		<	0.05	J	0.1	-
	09/19/89	0001		<	0.1		0.1	-
AMMONIUM	10/10/85	0001	MG/L		0.4		0.1	-
	04/06/88	0001			0.4		0.1	-
	07/15/88	0001			1.1		0.1	-
	01/11/89	0001			1.11		0.1	-
	09/19/89	0001			0.8		0.1	-
ANTIMONY	10/10/85	0001	MG/L	<	0.003		0.003	-
	04/06/88	0001			0.003		0.003	-
	07/15/88	0001			0.025		0.003	-
	01/11/89	0001			0.002	J	0.003	-
	09/19/89	0001			0.007		0.003	-
ARSENIC	10/10/85	0001	MG/L	<	0.01		0.01	-
	05/14/86	0001		<	0.01		0.01	-
	04/06/88	0001			0.025		0.01	-
	07/15/88	0001			0.01		0.01	-
	01/11/89	0001			0.001	J	0.01	-
	09/19/89	0001			0.02		0.01	-
BARIUM	10/10/85	0001	MG/L		0.3		0.1	-
	04/06/88	0001			0.03	J	0.1	-
	07/15/88	0001		<	0.1		0.1	-
	01/11/89	0001			0.02	J	0.1	-
	09/19/89	0001		<	0.1		0.1	-
BERYLLIUM	01/11/89	0001	MG/L	<	0.005		0.005	-
	09/19/89	0001		<	0.01		0.01	-
BORON	10/10/85	0001	MG/L		0.7		0.1	-
	05/14/86	0001			1.1		0.1	-
	04/06/88	0001			1.06		0.1	-
	07/15/88	0001			0.8		0.1	-
	01/11/89	0001			0.80		0.1	-
	09/19/89	0001			0.7		0.1	-
BROMIDE	04/06/88	0001	MG/L		0.1		0.1	-
	07/15/88	0001		<	0.1		0.1	-
	01/11/89	0001			41.		0.01	-
	09/19/89	0001		<	0.1		0.1	-
CADMIUM	10/10/85	0001	MG/L	<	0.001		0.001	-
	05/14/86	0001		<	0.001		0.001	-
	04/06/88	0001			0.016		0.001	-
	07/15/88	0001			0.001		0.001	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0779
 NORTH COORDINATE: 52914.0 FT
 EAST COORDINATE: 60284.7 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C2 SANDSTONE (TT)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CADMIUM	01/11/89	0001	MG/L	<	0.0001	J	0.001	-
	09/19/89	0001			0.015		0.001	-
CALCIUM	10/10/85	0001	MG/L		403.		0.01	-
	05/14/86	0001			493.		0.01	-
	04/06/88	0001			525.		0.01	-
	07/15/88	0001			427.		0.01	-
	01/11/89	0001			483.		0.01	-
	09/19/89	0001			407.		0.01	-
CHLORIDE	10/10/85	0001	MG/L		2.		1.	-
	05/14/86	0001			24.		1.	-
	04/06/88	0001			35.		1.	-
	07/15/88	0001			21.		1.	-
	01/11/89	0001			22.		1.	-
	09/19/89	0001			23.		1.	-
CHROMIUM	10/10/85	0001	MG/L		0.04		0.01	-
	05/14/86	0001			0.04		0.01	-
	04/06/88	0001			0.22		0.01	-
	07/15/88	0001			0.15		0.01	-
	01/11/89	0001			< 0.01		0.01	-
	09/19/89	0001			< 0.01		0.01	-
COBALT	10/10/85	0001	MG/L		0.07		0.05	-
	05/14/86	0001			0.1		0.05	-
	04/06/88	0001			0.06		0.05	-
	07/15/88	0001			< 0.05		0.05	-
	01/11/89	0001			0.01		0.05	-
	09/19/89	0001			< 0.05		0.05	-
COPPER	10/10/85	0001	MG/L		0.03		0.02	-
	04/06/88	0001			0.03		0.02	-
	07/15/88	0001			< 0.02		0.02	-
	01/11/89	0001			0.01		0.02	-
	09/19/89	0001			< 0.02		0.02	-
CYANIDE	10/10/85	0001	MG/L	<	0.01	J	0.01	-
	01/11/89	0001			< 0.002		0.01	-
	09/19/89	0001			< 0.01		0.01	-
FLUORIDE	10/10/85	0001	MG/L		0.5		0.1	-
	05/14/86	0001			0.4		0.1	-
	04/06/88	0001			0.22		0.1	-
	07/15/88	0001			0.4		0.1	-
	01/11/89	0001			0.2		0.1	-
	09/19/89	0001			0.2		0.1	-
GROSS ALPHA	04/06/88	0001	PCI/L		68.	J	0.2	46.
	07/15/88	0001			74.		0.2	50.
	01/11/89	0001			31.6		1.	44.9
	09/19/89	0001			15.		1.	33.
GROSS BETA	04/06/88	0001	PCI/L		77.		1.	26.
	07/15/88	0001			57.		1.	20.
	01/11/89	0001			64.9		0.5	49.8
	09/19/89	0001			16.		0.5	18.

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
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GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0779
 NORTH COORDINATE: 52914.0 FT
 EAST COORDINATE: 60284.7 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C2 SANDSTONE (TT)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
IRON	10/10/85	0001	MG/L		0.07		0.03	-
	05/14/86	0001			0.47		0.03	-
	04/06/88	0001			2.51		0.03	-
	07/15/88	0001			1.44		0.03	-
	01/11/89	0001			2.04		0.03	-
	09/19/89	0001			1.60		0.03	-
LEAD	10/10/85	0001	MG/L	<	0.01		0.01	-
	04/06/88	0001			0.01		0.01	-
	07/15/88	0001		<	0.01		0.01	-
	01/11/89	0001			0.002	J	0.01	-
	09/19/89	0001			0.02		0.01	-
LEAD-210	10/10/85	0001	PCI/L		1.1		1.5	1.6
	04/06/88	0001			0.2		1.5	1.0
	07/15/88	0001			0.0		1.5	0.9
	01/11/89	0001			0.00		1.5	8.72
	09/19/89	0001			0.0		1.5	0.7
MAGNESIUM	10/10/85	0001	MG/L		303.		0.001	-
	05/14/86	0001			388.		0.001	-
	04/06/88	0001			406.		0.001	-
	07/15/88	0001			391.		0.001	-
	01/11/89	0001			475.		0.001	-
	09/19/89	0001			392.		0.001	-
MANGANESE	10/10/85	0001	MG/L		0.84		0.01	-
	05/14/86	0001			1.02		0.01	-
	04/06/88	0001			0.96		0.01	-
	07/15/88	0001			0.56		0.01	-
	01/11/89	0001			0.60		0.01	-
	09/19/89	0001			0.54		0.01	-
MERCURY	10/10/85	0001	MG/L	<	0.0002		0.0002	-
	04/06/88	0001			0.0006		0.0002	-
	07/15/88	0001			0.0003		0.0002	-
	01/11/89	0001		<	0.0001	J	0.0002	-
	09/19/89	0001		<	0.0002		0.0002	-
MOLYBDENUM	10/10/85	0001	MG/L		0.14		0.01	-
	05/14/86	0001			0.08		0.01	-
	04/06/88	0001			0.12		0.01	-
	07/15/88	0001			0.11		0.01	-
	01/11/89	0001		<	0.001	J	0.01	-
	09/19/89	0001			0.01		0.01	-
NET GROSS ALPHA •	04/06/88	0001	PCI/L		62.17		-	-
	07/15/88	0001			64.33		-	-
	01/11/89	0001			19.94		-	-
	09/19/89	0001			7.45		-	-
NICKEL	10/10/85	0001	MG/L		0.14		0.04	-
	04/06/88	0001			0.14		0.04	-
	07/15/88	0001			0.11		0.04	-
	01/11/89	0001		<	0.02	J	0.04	-

• NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

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SAMPLE ID CODES:

0001 - FILTERED SAMPLE (.45 MICRONS)

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GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0779
 NORTH COORDINATE: 52914.0 FT
 EAST COORDINATE: 60284.7 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C2 SANDSTONE (TT)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
NICKEL	09/19/89	0001	MG/L	<	0.04		0.04	-
NITRATE	10/10/85	0001	MG/L	<	2.	J	1.	-
	05/14/86	0001			1.		1.	-
	04/06/88	0001			0.2		1.	-
	07/15/88	0001			2.1		1.	-
	01/11/89	0001			2.29		1.	-
	09/19/89	0001			1.		1.	-
NITRITE	10/10/85	0001	MG/L	<	0.1		0.1	-
NITRITE AND NITRATE	04/06/88	0001	MG/L		0.2	J	1.	-
PH	10/10/85	0001	SU		6.66		-	-
	05/14/86	0001			6.62		-	-
	04/06/88	0001			6.83		-	-
	07/15/88	0001			6.71		-	-
	01/11/89	0001			6.72		-	-
	09/19/89	0001			6.68		-	-
PHOSPHATE	10/10/85	0001	MG/L	<	0.4		0.1	-
	04/06/88	0001			0.1		0.1	-
	07/15/88	0001			0.1		0.1	-
	01/11/89	0001			0.1		0.1	-
	09/19/89	0001			0.1		0.1	-
POLONIUM-210	10/10/85	0001	PCI/L		0.	J	1.	0.6
	04/06/88	0001			0.3		1.	0.5
	07/15/88	0001			0.0		1.	0.4
	01/11/89	0001			1.09		1.	1.40
	09/19/89	0001			1.3		1.	0.5
POTASSIUM	10/10/85	0001	MG/L		23.9		0.01	-
	05/14/86	0001			25.7		0.01	-
	04/06/88	0001			27.0		0.01	-
	07/15/88	0001			21.1		0.01	-
	01/11/89	0001			21.6		0.01	-
	09/19/89	0001			20.6		0.01	-
RADIUM-226	10/10/85	0001	PCI/L		4.4		1.	0.7
	04/06/88	0001			0.4		1.	0.2
	07/15/88	0001			0.7		1.	0.3
	01/11/89	0001			2.30		1.	0.584
	09/19/89	0001			0.0		1.	0.1
RADIUM-226 + RADIUM-228	10/10/85	0001	PCI/L		5.60		-	-
	04/06/88	0001			3.00		-	-
	07/15/88	0001			3.40		-	-
	01/11/89	0001			2.30		-	-
	09/19/89	0001			2.10		-	-
RADIUM-228	10/10/85	0001	PCI/L		1.2		1.	1.1
	04/06/88	0001			2.6		1.	0.8
	07/15/88	0001			2.7		1.	1.4
	01/11/89	0001			0.00		1.	5.64
	09/19/89	0001			2.1		1.	1.0
SELENIUM	10/10/85	0001	MG/L	<	0.005		0.005	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
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GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0779
 NORTH COORDINATE: 52914.0 FT
 EAST COORDINATE: 60284.7 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C2 SANDSTONE (TT)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SELENIUM	05/14/86	0001	MG/L	<	0.005		0.005	-
	04/06/88	0001			0.069		0.005	-
	07/15/88	0001			0.092		0.005	-
	01/11/89	0001		<	0.001	J	0.005	-
	09/19/89	0001			0.047		0.005	-
SILICA - SIO2	10/10/85	0001	MG/L		16.		2.	-
	04/06/88	0001			16.5		2.	-
	07/15/88	0001			11.8		2.	-
	01/11/89	0001			11.6		2.	-
	09/19/89	0001			13.		2.	-
SILVER	10/10/85	0001	MG/L	<	0.01		0.01	-
	04/06/88	0001			0.05		0.01	-
	07/15/88	0001			0.02		0.01	-
	01/11/89	0001		<	0.01		0.01	-
	09/19/89	0001			0.01		0.01	-
SODIUM	10/10/85	0001	MG/L		688.		0.002	-
	05/14/86	0001			898.		0.002	-
	04/06/88	0001			663.		0.002	-
	07/15/88	0001			696.		0.002	-
	01/11/89	0001			835.		0.002	-
	09/19/89	0001			825.		0.002	-
SPECIFIC CONDUCTANCE	10/10/85	0001	UMHO/CM		4000.		-	-
	05/14/86	0001			4000.		-	-
	04/06/88	0001			4150.		-	-
	07/15/88	0001			4150.		-	-
	01/11/89	0001			2750.		-	-
	09/19/89	0001			710.		-	-
STRONTIUM	10/10/85	0001	MG/L		10.		0.1	-
	05/14/86	0001			10.4		0.1	-
	04/06/88	0001			9.88		0.1	-
	07/15/88	0001			10.8		0.1	-
	01/11/89	0001			12.0		0.1	-
	09/19/89	0001			10.9		0.1	-
SULFATE	10/10/85	0001	MG/L		3310.		0.1	-
	05/14/86	0001			3840.		0.1	-
	04/06/88	0001			3640.		0.1	-
	07/15/88	0001			3390.		0.1	-
	01/11/89	0001			4124.		0.1	-
	09/19/89	0001			3790.		0.1	-
SULFIDE	10/10/85	0001	MG/L	<	0.1		0.1	-
	04/06/88	0001			0.1		0.1	-
	07/15/88	0001			0.1		0.1	-
	01/11/89	0001		<	0.53		0.1	-
	09/19/89	0001			0.1		0.1	-
TEMPERATURE	10/10/85	0001	C - DEGREE		12.		-	-
	05/14/86	0001			14.		-	-
	04/06/88	0001			13.0		-	-
	07/15/88	0001			12.0		-	-
	01/11/89	0001			11.0		-	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
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GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0779
 NORTH COORDINATE: 52914.0 FT
 EAST COORDINATE: 60284.7 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C2 SANDSTONE (TT)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TEMPERATURE	09/19/89	0001	C - DEGREE		14.0		-	-
THALLIUM	01/11/89	0001	MG/L	<	0.005		0.005	-
	09/19/89	0001		<	0.01		0.01	-
THORIUM-230	10/10/85	0001	PCI/L		0.2		1.	0.3
	04/06/88	0001			0.0		1.	0.4
	07/15/88	0001			0.7		1.	0.6
	01/11/89	0001			7.04		1.	0.710
	09/19/89	0001			0.1		1.	0.4
TIN	10/10/85	0001	MG/L	<	0.005		0.005	-
	04/06/88	0001			0.030		0.005	-
	07/15/88	0001			0.040		0.005	-
	01/11/89	0001			0.001	J	0.005	-
	09/19/89	0001			0.142		0.005	-
TOTAL DISSOLVED SOLIDS	10/10/85	0001	MG/L		5900.		10.	-
	05/14/86	0001			6490.		10.	-
	04/06/88	0001			6280.		10.	-
	07/15/88	0001			6730.		10.	-
	01/11/89	0001			6448.		10.	-
	09/19/89	0001			5950.		10.	-
TOTAL ORGANIC CARBON	04/06/88	0001	MG/L		258.		1.	-
	07/15/88	0001			263.		1.	-
	01/11/89	0001			65.		1.	-
	09/19/89	0001			189.		1.	-
URANIUM	10/10/85	0001	MG/L		0.0238		0.003	-
	05/14/86	0001			0.0066		0.003	-
	04/06/88	0001			0.0085		0.003	-
	07/15/88	0001			0.0141		0.003	-
	01/11/89	0001			0.017		0.003	-
	09/19/89	0001			0.011		0.003	-
VANADIUM	10/10/85	0001	MG/L	<	0.01		0.01	-
	05/14/86	0001			0.34		0.01	-
	04/06/88	0001			0.11		0.01	-
	07/15/88	0001			0.07		0.01	-
	01/11/89	0001			0.01		0.01	-
	09/19/89	0001		<	0.01		0.01	-
ZINC	10/10/85	0001	MG/L		0.074		0.005	-
	04/06/88	0001			0.019		0.005	-
	07/15/88	0001			0.016		0.005	-
	01/11/89	0001		<	0.01		0.01	-
	09/19/89	0001			0.007		0.005	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0780
 NORTH COORDINATE: 53252.8 FT
 EAST COORDINATE: 59057.6 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	10/05/85	0001	MG/L CaCO3		401.		0.1	-
	05/13/86	0001			1917.		-	-
	01/09/87	0001			609.		-	-
ALUMINUM	10/05/85	0001	MG/L		0.3		0.1	-
AMMONIUM	10/05/85	0001	MG/L		0.3		0.1	-
ANTIMONY	10/05/85	0001	MG/L	<	0.003		0.003	-
ARSENIC	10/05/85	0001	MG/L	<	0.01		0.01	-
	05/13/86	0001		<	0.01		0.01	-
	01/09/87	0001			0.005	J	0.01	-
BARIUM	10/05/85	0001	MG/L	<	0.1		0.1	-
BORON	10/05/85	0001	MG/L		1.2		0.1	-
	05/13/86	0001			1.5		0.1	-
	01/09/87	0001			0.37		0.1	-
CADMIUM	10/05/85	0001	MG/L	<	0.001		0.001	-
	05/13/86	0001		<	0.001		0.001	-
CALCIUM	10/05/85	0001	MG/L		404.		0.01	-
	05/13/86	0001			746.		0.01	-
	01/09/87	0001			457.		0.01	-
CHLORIDE	10/05/85	0001	MG/L		210.		1.	-
	05/13/86	0001			280.		1.	-
	01/09/87	0001			300.		1.	-
CHROMIUM	10/05/85	0001	MG/L		0.03		0.01	-
	05/13/86	0001			0.03		0.01	-
	01/09/87	0001			0.02		0.01	-
COBALT	10/05/85	0001	MG/L		0.07		0.05	-
	05/13/86	0001			0.24		0.05	-
	01/09/87	0001			0.09		0.05	-
COPPER	10/05/85	0001	MG/L		0.03		0.02	-
	01/09/87	0001			0.03		0.02	-
CYANIDE	10/05/85	0001	MG/L	<	0.001	J	0.01	-
FLUORIDE	10/05/85	0001	MG/L		2.2		0.1	-
	05/13/86	0001			1.		0.1	-
	01/09/87	0001			0.69		0.1	-
GROSS ALPHA	01/09/87	0001	PCI/L		2300.		0.2	200.
GROSS BETA	01/09/87	0001	PCI/L		980.		1.	50.
IRON	10/05/85	0001	MG/L		0.49		0.03	-
	05/13/86	0001			4.13		0.03	-
	01/09/87	0001			0.55		0.03	-
LEAD	10/05/85	0001	MG/L	<	0.01		0.01	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0780
 NORTH COORDINATE: 53252.8 FT
 EAST COORDINATE: 59057.6 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
MAGNESIUM	10/05/85 05/13/86 01/09/87	0001 0001 0001	MG/L		222. 442. 290.		0.001 0.001 0.001	- - -
MANGANESE	10/05/85 05/13/86 01/09/87	0001 0001 0001	MG/L		0.56 4.23 0.33		0.01 0.01 0.01	- - -
MERCURY	10/05/85	0001	MG/L	<	0.0002		0.0002	-
MOLYBDENUM	10/05/85 05/13/86 01/09/87	0001 0001 0001	MG/L		3.17 1.22 3.6		0.01 0.01 0.01	- - -
NET GROSS ALPHA *	01/09/87	0001	PCI/L		-80.42		-	-
NICKEL	10/05/85	0001	MG/L		0.1		0.04	-
NITRATE	10/05/85 05/13/86 01/09/87	0001 0001 0001	MG/L		9.0 75. 140.		1. 1. 1.	- - -
NITRITE	10/05/85	0001	MG/L	<	0.1		0.1	-
PH	10/05/85 05/13/86 01/09/87	0001 0001 0001	SU		7.64 7.28 7.32		- - -	- - -
PHOSPHATE	10/05/85	0001	MG/L		0.3		0.1	-
POTASSIUM	10/05/85 05/13/86 01/09/87	0001 0001 0001	MG/L		9.54 9.67 5.85		0.01 0.01 0.01	- - -
RADIUM-226	05/13/86 01/09/87	0001 0001	PCI/L		2.5 2.5		1. 1.	0.7 0.8
RADIUM-226 + RADIUM-228	01/09/87	0001	PCI/L		3.10		-	-
RADIUM-228	01/09/87	0001	PCI/L		0.6		1.	1.4
SELENIUM	10/05/85 05/13/86 01/09/87	0001 0001 0001	MG/L		0.127 0.009 0.537		0.005 0.005 0.005	- - -
SILICA - SiO2	10/05/85	0001	MG/L		15.		2.	-
SILVER	10/05/85 01/09/87	0001 0001	MG/L	< <	0.01 0.01		0.01 0.01	- -
SODIUM	10/05/85 05/13/86 01/09/87	0001 0001 0001	MG/L		1140. 1430. 1540.		0.002 0.002 0.002	- - -
SPECIFIC CONDUCTANCE	10/05/85 05/13/86	0001 0001	UMHO/CM		6000. 4400.		- -	- -

* NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0780
 NORTH COORDINATE: 53252.8 FT
 EAST COORDINATE: 59057.6 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SPECIFIC CONDUCTANCE	01/09/87	0001	UMHO/CM		5000.		-	-
STRONTIUM	10/05/85	0001	MG/L		7.8		0.1	-
	05/13/86	0001			1.1		0.1	-
SULFATE	10/05/85	0001	MG/L		3610.		0.1	-
	05/13/86	0001			4300.		0.1	-
	01/09/87	0001			4440.		0.1	-
SULFIDE	10/05/85	0001	MG/L	<	0.1		0.1	-
TEMPERATURE	10/05/85	0001	C - DEGREE		14.		-	-
	05/13/86	0001			12.		-	-
	01/09/87	0001			9.0		-	-
THORIUM-230	05/13/86	0001	PCI/L		0.2		1.	0.3
TIN	10/05/85	0001	MG/L	<	0.005		0.005	-
TOTAL DISSOLVED SOLIDS	10/05/85	0001	MG/L		6180.		10.	-
	05/13/86	0001			7250.		10.	-
	01/09/87	0001			8300.		10.	-
TOTAL ORGANIC CARBON	10/05/85	0001	MG/L		25.		1.	-
URANIUM	10/05/85	0001	MG/L		2.8		0.003	-
	05/13/86	0001			0.0933		0.003	-
	01/09/87	0001			3.47		0.003	-
VANADIUM	10/05/85	0001	MG/L		0.5		0.01	-
	05/13/86	0001			0.5		0.01	-
	01/09/87	0001			0.05		0.01	-
ZINC	10/05/85	0001	MG/L		0.098		0.005	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0781
 NORTH COORDINATE: 53253.5 FT
 EAST COORDINATE: 59156.3 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	10/16/85	0001	MG/L CaCO3		241.		-	-
ALUMINUM	10/16/85	0001	MG/L		0.3		0.1	-
AMMONIUM	10/16/85	0001	MG/L		0.5		0.1	-
ANTIMONY	10/16/85	0001	MG/L	<	0.003		0.003	-
ARSENIC	10/16/85	0001	MG/L	<	0.01		0.01	-
BARIUM	10/16/85	0001	MG/L		0.1		0.1	-
BORON	10/16/85	0001	MG/L		0.2		0.1	-
CADMIUM	10/16/85	0001	MG/L	<	0.001		0.001	-
CALCIUM	10/16/85	0001	MG/L		56.1		0.01	-
CHLORIDE	10/16/85	0001	MG/L		20.		1.	-
CHROMIUM	10/16/85	0001	MG/L		0.17		0.01	-
COBALT	10/16/85	0001	MG/L	<	0.05		0.05	-
COPPER	10/16/85	0001	MG/L	<	0.02		0.02	-
CYANIDE	10/16/85	0001	MG/L	<	0.01		0.01	-
FLUORIDE	10/16/85	0001	MG/L		1.1		0.1	-
IRON	10/16/85	0001	MG/L	<	0.03		0.03	-
LEAD	10/16/85	0001	MG/L	<	0.01		0.01	-
MAGNESIUM	10/16/85	0001	MG/L		1.84		0.001	-
MANGANESE	10/16/85	0001	MG/L	<	0.01		0.01	-
MERCURY	10/16/85	0001	MG/L	<	0.0002		0.0002	-
MOLYBDENUM	10/16/85	0001	MG/L		0.21		0.01	-
NICKEL	10/16/85	0001	MG/L	<	0.04		0.04	-
NITRATE	10/16/85	0001	MG/L		14.		1.	-
NITRITE	10/16/85	0001	MG/L	<	0.1		0.1	-
PH	10/16/85	0001	SU		11.18		-	-
PHOSPHATE	10/16/85	0001	MG/L		0.6		0.1	-
POTASSIUM	10/16/85	0001	MG/L		6.91		0.01	-
SELENIUM	10/16/85	0001	MG/L	<	0.005		0.005	-
SILICA - SiO2	10/16/85	0001	MG/L		5.		2.	-
SILVER	10/16/85	0001	MG/L	<	0.01		0.01	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0781
 NORTH COORDINATE: 53253.5 FT
 EAST COORDINATE: 59156.3 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SODIUM	10/16/85	0001	MG/L		220.		0.002	-
SPECIFIC CONDUCTANCE	10/16/85	0001	UMHO/CM		1380.		-	-
STRONTIUM	10/16/85	0001	MG/L		0.9		0.1	-
SULFATE	10/16/85	0001	MG/L		382.		0.1	-
SULFIDE	10/16/85	0001	MG/L	<	0.1		0.1	-
TEMPERATURE	10/16/85	0001	C - DEGREE		10.		-	-
THORIUM-230	10/16/85	0001	PCI/L		0.6		1.	2.
TIN	10/16/85	0001	MG/L	<	0.005		0.005	-
TOTAL DISSOLVED SOLIDS	10/16/85	0001	MG/L		785.		10.	-
TOTAL ORGANIC CARBON	10/16/85	0001	MG/L		160.		1.	-
URANIUM	10/16/85	0001	MG/L		0.0006	J	0.003	-
VANADIUM	10/16/85	0001	MG/L	<	0.01		0.01	-
ZINC	10/16/85	0001	MG/L	<	0.005		0.005	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0782
 NORTH COORDINATE: 55221.4 FT
 EAST COORDINATE: 58792.8 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C2 SANDSTONE (TT)
 HYDRAULIC FLOW RELATIONSHIP: CROSS GRADIENT (C)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	10/09/85 05/16/86	0001 0001	MG/L CACO3		1072. 449.		- -	- -
ALUMINUM	10/09/85	0001	MG/L		0.4		0.1	-
AMMONIUM	10/09/85	0001	MG/L		0.8		0.1	-
ANTIMONY	10/09/85	0001	MG/L	<	0.003		0.003	-
ARSENIC	10/09/85 05/16/86	0001 0001	MG/L	< <	0.01 0.01		0.01 0.01	- -
BARIUM	10/09/85	0001	MG/L		0.3		0.1	-
BORON	10/09/85 05/16/86	0001 0001	MG/L		0.2 0.2		0.1 0.1	- -
CADMIUM	10/09/85 05/16/86	0001 0001	MG/L	< <	0.001 0.001		0.001 0.001	- -
CALCIUM	10/09/85 05/16/86	0001 0001	MG/L		258. 192.		0.01 0.01	- -
CHLORIDE	10/09/85 05/16/86	0001 0001	MG/L		20. 12.		1. 1.	- -
CHROMIUM	10/09/85 05/16/86	0001 0001	MG/L		0.04 0.03		0.01 0.01	- -
COBALT	10/09/85 05/16/86	0001 0001	MG/L	< <	0.05 0.05		0.05 0.05	- -
COPPER	10/09/85	0001	MG/L		0.02		0.02	-
CYANIDE	10/09/85	0001	MG/L	<	0.01		0.01	-
FLUORIDE	10/09/85 05/16/86	0001 0001	MG/L		0.9 0.6		0.1 0.1	- -
IRON	10/09/85 05/16/86	0001 0001	MG/L	< <	0.03 0.03		0.03 0.03	- -
LEAD	10/09/85	0001	MG/L	<	0.01		0.01	-
LEAD-210	10/09/85	0001	PCI/L		2.9		1.5	1.5
MAGNESIUM	10/09/85 05/16/86	0001 0001	MG/L		0.167 0.161		0.001 0.001	- -
MANGANESE	10/09/85 05/16/86	0001 0001	MG/L		0.02 0.01		0.01 0.01	- -
MERCURY	10/09/85	0001	MG/L	<	0.0002		0.0002	-
MOLYBDENUM	10/09/85 05/16/86	0001 0001	MG/L		0.16 0.17		0.01 0.01	- -
NICKEL	10/09/85	0001	MG/L		0.06		0.04	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0782
 NORTH COORDINATE: 55221.4 FT
 EAST COORDINATE: 58792.8 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C2 SANDSTONE (TT)
 HYDRAULIC FLOW RELATIONSHIP: CROSS GRADIENT (C)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
NITRATE	10/09/85 05/16/86	0001 0001	MG/L	<	4. 1.		1. 1.	- -
NITRITE	10/09/85	0001	MG/L	<	0.1		0.1	-
PH	10/09/85 05/16/86	0001 0001	SU		12.2 11.46		- -	- -
PHOSPHATE	10/09/85	0001	MG/L		0.4		0.1	-
POLONIUM-210	10/09/85	0001	PCI/L		0.		1.	0.6
POTASSIUM	10/09/85 05/16/86	0001 0001	MG/L		24.9 15.3		0.01 0.01	- -
RADIUM-226	10/09/85 05/16/86	0001 0001	PCI/L		2.4 1.		1. 1.	0.5 0.4
RADIUM-226 + RADIUM-228	10/09/85	0001	PCI/L		2.80		-	-
RADIUM-228	10/09/85	0001	PCI/L		0.4		1.	0.9
SELENIUM	10/09/85 05/16/86	0001 0001	MG/L	< <	0.005 0.005		0.005 0.005	- -
SILICA - SiO2	10/09/85	0001	MG/L		4.		2.	-
SILVER	10/09/85	0001	MG/L	<	0.01		0.01	-
SODIUM	10/09/85 05/16/86	0001 0001	MG/L		264. 292.		0.002 0.002	- -
SPECIFIC CONDUCTANCE	10/09/85 05/16/86	0001 0001	UMHO/CM		4100. 2450.		- -	- -
STRONTIUM	10/09/85 05/16/86	0001 0001	MG/L		2.6 2.1		0.1 0.1	- -
SULFATE	10/09/85 05/16/86	0001 0001	MG/L		516. 633.		0.1 0.1	- -
SULFIDE	10/09/85	0001	MG/L	<	0.1		0.1	-
TEMPERATURE	10/09/85 05/16/86	0001 0001	C - DEGREE		12.5 16.		- -	- -
THORIUM-230	10/09/85 05/16/86	0001 0001	PCI/L		0.5 0.1		1. 1.	0.5 0.2
TIN	10/09/85	0001	MG/L	<	0.005		0.005	-
TOTAL DISSOLVED SOLIDS	10/09/85 05/16/86	0001 0001	MG/L		1880. 1340.		10. 10.	- -
TOTAL ORGANIC CARBON	10/09/85	0001	MG/L		18.		1.	-
URANIUM	10/09/85 05/16/86	0001 0001	MG/L	<	0.0031 0.0003 J		0.003 0.003	- -

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
SITE: AMB01 AMBROSIA LAKE
LOCATION: 0782
NORTH COORDINATE: 55221.4 FT
EAST COORDINATE: 58792.8 FT
06/10/80 TO 12/04/92
REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C2 SANDSTONE (TT)
HYDRAULIC FLOW RELATIONSHIP: CROSS GRADIENT (C)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
VANADIUM	10/09/85	0001	MG/L	<	0.01		0.01	-
	05/16/86	0001			0.21		0.01	-
ZINC	10/09/85	0001	MG/L	<	0.005		0.005	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0784
 NORTH COORDINATE: 54129.0 FT
 EAST COORDINATE: 58763.8 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C2 SANDSTONE (TT)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	05/15/86	0001	MG/L CACO3		670.		-	-
ARSENIC	05/15/86	0001	MG/L	<	0.01	J	0.1	-
BORON	05/15/86	0001	MG/L		0.2		0.1	-
CADMIUM	05/15/86	0001	MG/L	<	0.001		0.001	-
CALCIUM	05/15/86	0001	MG/L		183.		0.01	-
CHLORIDE	05/15/86	0001	MG/L		95.		1.	-
CHROMIUM	05/15/86	0001	MG/L		0.11		0.01	-
COBALT	05/15/86	0001	MG/L	<	0.05		0.05	-
FLUORIDE	05/15/86	0001	MG/L		0.8		0.1	-
IRON	05/15/86	0001	MG/L		0.05		0.03	-
MAGNESIUM	05/15/86	0001	MG/L		0.481		0.001	-
MANGANESE	05/15/86	0001	MG/L		0.02		0.01	-
MOLYBDENUM	05/15/86	0001	MG/L		0.19		0.01	-
NITRATE	05/15/86	0001	MG/L		5.		1.	-
PH	05/15/86	0001	SU		11.92		-	-
POTASSIUM	05/15/86	0001	MG/L		23.		0.01	-
RADIUM-226	05/15/86	0001	PCI/L		0.8		1.	0.4
SELENIUM	05/15/86	0001	MG/L		0.007		0.005	-
SODIUM	05/15/86	0001	MG/L		395.		0.002	-
SPECIFIC CONDUCTANCE	05/15/86	0001	UMHO/CM		3000.		-	-
STRONTIUM	05/15/86	0001	MG/L		2.8		0.1	-
SULFATE	05/15/86	0001	MG/L		557.		0.1	-
TEMPERATURE	05/15/86	0001	C - DEGREE		16.		-	-
THORIUM-230	05/15/86	0001	PCI/L		1.6		1.	0.7
TOTAL DISSOLVED SOLIDS	05/15/86	0001	MG/L		1560.		10.	-
URANIUM	05/15/86	0001	MG/L	<	0.0003	J	0.003	-
VANADIUM	05/15/86	0001	MG/L		0.38		0.01	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0785
 NORTH COORDINATE: 52770.8 FT
 EAST COORDINATE: 58816.5 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C2 SANDSTONE (TT)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	10/15/85	0001	MG/L CaCO3		350.		-	-
	05/15/86	0001			841.		-	-
	01/09/87	0001			740.		-	-
	04/06/88	0001			744.		-	-
	07/15/88	0001			610.		-	-
	01/08/89	0001			578.		-	-
	09/19/89	0001			598.		-	-
	03/31/90	0001			465.		-	-
	01/15/91	0001			479.		-	-
	11/25/92	0001			219		-	-
ALUMINUM	10/15/85	0001	MG/L		0.3		0.1	-
	04/06/88	0001			0.44		0.1	-
	07/15/88	0001			0.1		0.1	-
	01/08/89	0001		<	0.05	J	0.1	-
	09/19/89	0001		<	0.1		0.1	-
	03/31/90	0001		<	0.1		0.1	-
	01/15/91	0001		<	0.05		0.05	-
AMMONIUM	10/15/85	0001	MG/L		0.2		0.1	-
	04/06/88	0001		<	0.1		0.1	-
	07/15/88	0001		<	0.1		0.1	-
	01/08/89	0001			0.18		0.1	-
	09/19/89	0001		<	0.1		0.1	-
	03/31/90	0001		<	0.1		0.1	-
	01/15/91	0001			0.28		0.01	-
	11/25/92	0001			0.3		0.1	-
ANTIMONY	10/15/85	0001	MG/L	<	0.003		0.003	-
	04/06/88	0001			0.032		0.003	-
	07/15/88	0001			0.043		0.003	-
	01/08/89	0001			0.003		0.003	-
	09/19/89	0001			0.014		0.003	-
	03/31/90	0001			0.075		0.003	-
	01/15/91	0001			0.003		0.003	-
	11/25/92	0001		<	0.003		0.003	-
ARSENIC	10/15/85	0001	MG/L	<	0.01		0.01	-
	05/15/86	0001		<	0.01		0.01	-
	01/09/87	0001			0.004	J	0.01	-
	04/06/88	0001			0.026		0.01	-
	07/15/88	0001			0.02		0.01	-
	01/08/89	0001		<	0.001	J	0.01	-
	09/19/89	0001			0.02		0.01	-
	03/31/90	0001			0.12		0.01	-
	01/15/91	0001		<	0.03	I	0.03	-
BARIUM	10/15/85	0001	MG/L		0.1		0.1	-
	04/06/88	0001			0.03	J	0.1	-
	07/15/88	0001		<	0.1		0.1	-
	01/08/89	0001			0.02	J	0.1	-
	09/19/89	0001		<	0.1		0.1	-
	03/31/90	0001		<	0.1		0.1	-
	01/15/91	0001		<	0.01		0.01	-
BERYLLIUM	01/08/89	0001	MG/L	<	0.005		0.005	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
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GROUNDWATER QUALITY DATA BY LOCATION
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 LOCATION: 0785
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 EAST COORDINATE: 58816.5 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C2 SANDSTONE (TT)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
BERYLLIUM	09/19/89	0001	MG/L	<	0.01		0.01	-
	03/31/90	0001		<	0.01		0.01	-
	01/15/91	0001		<	0.005		0.005	-
BORON	10/15/85	0001	MG/L		0.3		0.1	-
	05/15/86	0001			0.3		0.1	-
	01/09/87	0001			0.30		0.1	-
	04/06/88	0001			0.63		0.1	-
	07/15/88	0001			0.4		0.1	-
	01/08/89	0001			0.42		0.1	-
	09/19/89	0001			0.4		0.1	-
	03/31/90	0001			0.3		0.1	-
	01/15/91	0001			0.28		0.05	-
BROMIDE	04/06/88	0001	MG/L		0.3		0.1	-
	07/15/88	0001			1.0		0.1	-
	01/08/89	0001			3.25		0.01	-
	09/19/89	0001			0.46		0.1	-
	03/31/90	0001			1.1		0.1	-
	01/15/91	0001			2.3		0.1	-
CADMIUM	10/15/85	0001	MG/L	<	0.001		0.001	-
	05/15/86	0001		<	0.001		0.001	-
	04/06/88	0001			0.009		0.001	-
	07/15/88	0001			0.002		0.001	-
	01/08/89	0001			0.0011		0.001	-
	09/19/89	0001			0.024		0.001	-
	03/31/90	0001		<	0.001		0.001	-
	01/15/91	0001		<	0.001		0.001	-
	11/25/92	0001			0.0002	H	0.0001	-
CALCIUM	10/15/85	0001	MG/L		198.		0.01	-
	05/15/86	0001			531.		0.01	-
	01/09/87	0001			497.		0.01	-
	04/06/88	0001			561.		0.01	-
	07/15/88	0001			391.		0.01	-
	01/08/89	0001			423.		0.01	-
	09/19/89	0001			375.		0.01	-
	03/31/90	0001			370.		0.01	-
	01/15/91	0001			255.		0.5	-
	11/25/92	0001			311.		0.5	-
CHLORIDE	10/15/85	0001	MG/L		81.		1.	-
	05/15/86	0001			190.		1.	-
	01/09/87	0001			220.		1.	-
	04/06/88	0001			260.		1.	-
	07/15/88	0001			230.		1.	-
	01/08/89	0001			261.		1.	-
	09/19/89	0001			230.		1.	-
	03/31/90	0001			259.		1.	-
	01/15/91	0001			261.		0.5	-
	11/25/92	0001			254.		5.	-
CHROMIUM	10/15/85	0001	MG/L		0.02		0.01	-
	05/15/86	0001			0.07		0.01	-
	01/09/87	0001			0.02		0.01	-
	04/06/88	0001			0.24		0.01	-

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 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CHROMIUM	07/15/88	0001	MG/L		0.13		0.01	-
	01/08/89	0001		<	0.01		0.01	-
	09/19/89	0001		<	0.01		0.01	-
	03/31/90	0001		<	0.01		0.01	-
	01/15/91	0001			0.05		0.01	-
	11/25/92	0001			0.02		0.01	-
COBALT	10/15/85	0001	MG/L	<	0.05		0.05	-
	05/15/86	0001			0.1		0.05	-
	01/09/87	0001			0.08		0.05	-
	04/06/88	0001			0.09		0.05	-
	07/15/88	0001		<	0.05		0.05	-
	01/08/89	0001			0.01	J	0.05	-
	09/19/89	0001		<	0.05		0.05	-
	03/31/90	0001		<	0.05		0.05	-
	01/15/91	0001		<	0.03		0.03	-
	11/25/92	0001		<	0.03		0.03	-
COPPER	10/15/85	0001	MG/L		0.03		0.02	-
	01/09/87	0001			0.02		0.02	-
	04/06/88	0001			0.05		0.02	-
	07/15/88	0001			0.03		0.02	-
	01/08/89	0001		<	0.01	J	0.02	-
	09/19/89	0001		<	0.02		0.02	-
	03/31/90	0001		<	0.02		0.02	-
	01/15/91	0001		<	0.01		0.01	-
CYANIDE	10/15/85	0001	MG/L	<	0.01		0.01	-
	01/08/89	0001			0.350		0.01	-
	09/19/89	0001			0.01		0.01	-
	03/31/90	0001			0.54		0.01	-
	01/15/91	0001			0.28		0.01	-
FLUORIDE	10/15/85	0001	MG/L		1.4		0.1	-
	05/15/86	0001			0.6		0.1	-
	01/09/87	0001			0.47		0.1	-
	04/06/88	0001			0.43		0.1	-
	07/15/88	0001			0.2		0.1	-
	01/08/89	0001			0.5		0.1	-
	09/19/89	0001			0.4		0.1	-
	03/31/90	0001			0.4		0.1	-
	01/15/91	0001			0.4		0.1	-
	11/25/92	0001			0.4		0.1	-
GROSS ALPHA	01/09/87	0001	PCI/L		1900.		0.2	100.
	04/06/88	0001			1600.		0.2	10.
	07/15/88	0001			1800.		0.2	100.
	01/08/89	0001			520.	J	1.	81.2
	09/19/89	0001			1200.		1.	100.
	03/31/90	0001			1000.		1.	100.
	01/15/91	0001			862.		1.	99.2
	11/25/92	0001			177.	H	1.0	60.2
GROSS BETA	01/09/87	0001	PCI/L		740.		1.	60.
	04/06/88	0001			480.		1.	40.
	07/15/88	0001			450.		1.	30.

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GROSS BETA	01/08/89	0001	PCI/L		484.		0.5	52.6
	09/19/89	0001			510.		0.5	30.
	03/31/90	0001			520.		0.5	40.
	01/15/91	0001			394.		0.5	41.1
	11/25/92	0001			160.		69.9	48.1
IRON	10/15/85	0001	MG/L	<	0.03		0.03	-
	05/15/86	0001			28.8		0.03	-
	01/09/87	0001			0.24		0.03	-
	04/06/88	0001			0.54		0.03	-
	07/15/88	0001			0.27		0.03	-
	01/08/89	0001			4.50		0.03	-
	09/19/89	0001			1.89		0.03	-
	03/31/90	0001			7.10		0.03	-
	01/15/91	0001			0.21		0.03	-
	11/25/92	0001			13.9		0.03	-
LEAD	10/15/85	0001	MG/L	<	0.01		0.01	-
	04/06/88	0001			0.01		0.01	-
	07/15/88	0001		<	0.01		0.01	-
	01/08/89	0001			0.001	J	0.01	-
	09/19/89	0001			0.02		0.01	-
	03/31/90	0001		<	0.01		0.01	-
	01/15/91	0001		<	0.03	I	0.03	-
LEAD-210	10/15/85	0001	PCI/L		5.5		1.5	2.9
	04/06/88	0001			2.0		1.5	1.3
	07/15/88	0001			0.2		1.5	1.1
	01/08/89	0001			5.72		1.5	9.07
	09/19/89	0001			0.3		1.5	0.8
MAGNESIUM	10/15/85	0001	MG/L		80.6		0.001	-
	05/15/86	0001			241.		0.001	-
	01/09/87	0001			290.		0.001	-
	04/06/88	0001			274.		0.001	-
	07/15/88	0001			251.		0.001	-
	01/08/89	0001			300.		0.001	-
	09/19/89	0001			269.		0.001	-
	03/31/90	0001			269.		0.001	-
	01/15/91	0001			184.		0.5	-
	11/25/92	0001			255.		0.5	-
MANGANESE	10/15/85	0001	MG/L		0.14		0.01	-
	05/15/86	0001			1.82		0.01	-
	01/09/87	0001			0.76		0.01	-
	04/06/88	0001			1.11		0.01	-
	07/15/88	0001			0.32		0.01	-
	01/08/89	0001			0.42		0.01	-
	09/19/89	0001			0.41		0.01	-
	03/31/90	0001			4.0		0.01	-
	01/15/91	0001			0.27		0.01	-
MERCURY	10/15/85	0001	MG/L	<	0.0002		0.0002	-
	04/06/88	0001			0.0006		0.0002	-
	07/15/88	0001			0.0003		0.0002	-
	01/08/89	0001		<	0.0001	J	0.0002	-

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MERCURY	09/19/89	0001	MG/L	<	0.0002		0.0002	-
	03/31/90	0001		<	0.0002		0.0002	-
	01/15/91	0001		<	0.0002		0.0002	-
MOLYBDENUM	10/15/85	0001	MG/L		0.35		0.01	-
	05/15/86	0001			0.2		0.01	-
	01/09/87	0001			0.2		0.01	-
	04/06/88	0001			0.14		0.01	-
	07/15/88	0001			0.27		0.01	-
	01/08/89	0001			0.019		0.01	-
	09/19/89	0001			0.07		0.01	-
	03/31/90	0001			0.04		0.01	-
	01/15/91	0001			0.05		0.01	-
	11/25/92	0001			0.04		0.01	-
NET GROSS ALPHA *	01/09/87	0001	PCI/L		-363.80		-	-
	04/06/88	0001			317.18		-	-
	07/15/88	0001			654.38		-	-
	01/08/89	0001			-721.66		-	-
	09/19/89	0001			191.58		-	-
	03/31/90	0001			324.29		-	-
	01/15/91	0001			-359.08		-	-
	11/25/92	0001			-109.06		-	-
NICKEL	10/15/85	0001	MG/L	<	0.04		0.04	-
	04/06/88	0001			0.15		0.04	-
	07/15/88	0001			0.07		0.04	-
	01/08/89	0001		<	0.02	J	0.04	-
	09/19/89	0001		<	0.04		0.04	-
	03/31/90	0001		<	0.04		0.04	-
	01/15/91	0001			0.04		0.04	-
	11/25/92	0001			0.13		0.04	-
NITRATE	10/15/85	0001	MG/L		20.		1.	-
	05/15/86	0001		<	1.		1.	-
	01/09/87	0001			5.3		1.	-
	04/06/88	0001			1.8		1.	-
	07/15/88	0001			4.6		1.	-
	01/08/89	0001		<	0.1	J	1.	-
	09/19/89	0001			1.4		1.	-
	03/31/90	0001			1.6		1.	-
	01/15/91	0001			3.1	J	0.1	-
	11/25/92	0001		<	1.0		1.0	-
NITRITE	10/15/85	0001	MG/L	<	0.1		0.1	-
NITRITE AND NITRATE	04/06/88	0001	MG/L		1.8		1.	-
	03/31/90	0001			0.4	J	1.	-
	01/15/91	0001			0.38		0.05	-
PH	10/15/85	0001	SU		7.87		-	-
	05/15/86	0001			7.35		-	-
	01/09/87	0001			7.24		-	-
	04/06/88	0001			7.18		-	-
	07/15/88	0001			7.08		-	-

• NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

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PH	01/08/89	0001	SU		7.08		-	-
	09/19/89	0001			6.94		-	-
	03/31/90	0001			6.80		-	-
	01/15/91	0001			7.06		-	-
	11/25/92	0001			7.16		-	-
PHOSPHATE	10/15/85	0001	MG/L		0.4		0.1	-
	04/06/88	0001		<	0.1		0.1	-
	07/15/88	0001		<	0.1		0.1	-
	01/08/89	0001		<	0.1		0.1	-
	09/19/89	0001		<	0.1		0.1	-
	03/31/90	0001		<	0.1		0.1	-
	01/15/91	0001			0.06		0.05	-
	11/25/92	0001			0.1		0.1	-
POLONIUM-210	04/06/88	0001	PCI/L		1.2		1.	0.6
	07/15/88	0001			1.1		1.	0.6
	01/08/89	0001			0.588		1.	1.58
	09/19/89	0001			1.3		1.	0.5
POTASSIUM	10/15/85	0001	MG/L		7.73		0.01	-
	05/15/86	0001			11.7		0.01	-
	01/09/87	0001			8.90		0.01	-
	04/06/88	0001			8.25		0.01	-
	07/15/88	0001			8.3		0.01	-
	01/08/89	0001			8.2		0.01	-
	09/19/89	0001			8.1		0.01	-
	03/31/90	0001			8.6		0.01	-
	01/15/91	0001			6.1		0.01	-
	11/25/92	0001			7.57		0.01	-
RADIUM-226	10/15/85	0001	PCI/L		0.4		1.	1.9
	01/09/87	0001			2.0		1.	0.7
	04/06/88	0001			0.2		1.	0.2
	07/15/88	0001			0.6		1.	0.3
	01/08/89	0001			0.948		1.	0.365
	09/19/89	0001			0.1		1.	0.2
	03/31/90	0001			0.4		1.	0.3
	11/25/92	0001			0.8		0.3	0.4
RADIUM-226 + RADIUM-228	10/15/85	0001	PCI/L		0.80		-	-
	01/09/87	0001			2.80		-	-
	04/06/88	0001			1.00		-	-
	07/15/88	0001			0.80		-	-
	01/08/89	0001			10.51		-	-
	09/19/89	0001			0.50		-	-
	03/31/90	0001			0.90		-	-
RADIUM-228	10/15/85	0001	PCI/L		0.4		1.	4.5
	01/09/87	0001			0.8		1.	1.1
	04/06/88	0001			0.8		1.	0.8
	07/15/88	0001			0.2		1.	0.8
	01/08/89	0001			9.56		1.	5.26
	09/19/89	0001			0.4		1.	0.9
	03/31/90	0001			0.5		1.	0.7
	11/25/92	0001			0.2	H	1.0	1.5

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
 H - HOLD TIME EXPIRED, VALUE SUSPECT

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0785
 NORTH COORDINATE: 52770.8 FT
 EAST COORDINATE: 58816.5 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C2 SANDSTONE (TT)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SELENIUM	10/15/85	0001	MG/L	<	0.003	J	0.005	-
	05/15/86	0001		<	0.005		0.005	-
	01/09/87	0001			0.324		0.005	-
	04/06/88	0001			0.123		0.005	-
	07/15/88	0001			0.263		0.005	-
	01/08/89	0001			0.180		0.005	-
	09/19/89	0001			0.264		0.005	-
	03/31/90	0001			0.162		0.005	-
	01/15/91	0001			0.278		0.005	-
	11/25/92	0001			0.06	H	0.03	-
SILICA - SiO2	10/15/85	0001	MG/L		19.		2.	-
	04/06/88	0001			20.3		2.	-
	07/15/88	0001			14.5		2.	-
	01/08/89	0001			12.1		2.	-
	09/19/89	0001			11.		2.	-
	03/31/90	0001			9.		2.	-
	01/15/91	0001			7.6		0.1	-
SILVER	10/15/85	0001	MG/L	<	0.01		0.01	-
	01/09/87	0001		<	0.01		0.01	-
	04/06/88	0001			0.08		0.01	-
	07/15/88	0001			0.02		0.01	-
	01/08/89	0001		<	0.01		0.01	-
	09/19/89	0001		<	0.01		0.01	-
	03/31/90	0001		<	0.01		0.01	-
	01/15/91	0001		<	0.01		0.01	-
	11/25/92	0001			0.02		0.01	-
SODIUM	10/15/85	0001	MG/L		564.		0.002	-
	05/15/86	0001			913.		0.002	-
	01/09/87	0001			1240.		0.002	-
	04/06/88	0001			855.		0.002	-
	07/15/88	0001			1090.		0.002	-
	01/08/89	0001			1250.		0.002	-
	09/19/89	0001			1253.		0.002	-
	03/31/90	0001			1270.		0.002	-
	01/15/91	0001			1320.		5.	-
	11/25/92	0001			1270.		20.	-
SPECIFIC CONDUCTANCE	10/15/85	0001	UMHO/CM		2200.		-	-
	05/15/86	0001			4500.		-	-
	01/09/87	0001			4700.		-	-
	04/06/88	0001			4800.		-	-
	07/15/88	0001			5000.		-	-
	01/08/89	0001			2900.		-	-
	09/19/89	0001			2200.		-	-
	03/31/90	0001			4750.		-	-
	01/15/91	0001			5000.		-	-
	11/25/92	0001			4720		-	-
STRONTIUM	10/15/85	0001	MG/L		2.2		0.1	-
	05/15/86	0001			4.4		0.1	-
	04/06/88	0001			8.26		0.1	-
	07/15/88	0001			7.9		0.1	-
	01/08/89	0001			9.3		0.1	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
 H - HOLD TIME EXPIRED, VALUE SUSPECT
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0785
 NORTH COORDINATE: 52770.8 FT
 EAST COORDINATE: 58816.5 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C2 SANDSTONE (TT)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
STRONTIUM	09/19/89	0001	MG/L		8.5		0.1	-
	03/31/90	0001			7.63		0.1	-
	01/15/91	0001			4.60		0.01	-
SULFATE	10/15/85	0001	MG/L		1560.		0.1	-
	05/15/86	0001			3370.		0.1	-
	01/09/87	0001			3970.		0.1	-
	04/06/88	0001			3510.		0.1	-
	07/15/88	0001			3470.		0.1	-
	01/08/89	0001			4182.		0.1	-
	09/19/89	0001			4100.		0.1	-
	03/31/90	0001			3880.		0.1	-
	01/15/91	0001			4080.		10.	-
	11/25/92	0001			3700.		10.	-
SULFIDE	10/15/85	0001	MG/L	<	0.1		0.1	-
	04/06/88	0001		<	0.1		0.1	-
	07/15/88	0001		<	0.1		0.1	-
	01/08/89	0001		<	0.01	J	0.1	-
	09/19/89	0001		<	0.1		0.1	-
	03/31/90	0001		<	0.1		0.1	-
	01/15/91	0001		<	0.1	J	0.1	-
TEMPERATURE	10/15/85	0001	C - DEGREE		11.		-	-
	05/15/86	0001			17.		-	-
	01/09/87	0001			11.		-	-
	04/06/88	0001			12.0		-	-
	07/15/88	0001			13.0		-	-
	01/08/89	0001			8.0		-	-
	09/19/89	0001			14.0		-	-
	03/31/90	0001			13.		-	-
	01/15/91	0001			11.		-	-
	11/25/92	0001			10.0		-	-
THALLIUM	01/08/89	0001	MG/L		0.003		0.001	-
	09/19/89	0001			0.01		0.01	-
	03/31/90	0001		<	0.01		0.01	-
	01/15/91	0001		<	0.03	I	0.03	-
THORIUM-230	10/15/85	0001	PCI/L		1.5		1.	2.5
	04/06/88	0001			0.6		1.	0.6
	07/15/88	0001			0.2		1.	0.4
	01/08/89	0001			10.9		1.	0.750
TIN	10/15/85	0001	MG/L	<	0.005		0.005	-
	04/06/88	0001			0.030		0.005	-
	07/15/88	0001			0.015		0.005	-
	01/08/89	0001		<	0.005		0.005	-
	09/19/89	0001			0.185		0.005	-
	03/31/90	0001			0.080		0.005	-
	01/15/91	0001		<	0.03	I	0.03	-
TOTAL DISSOLVED SOLIDS	10/15/85	0001	MG/L		2670.		10.	-
	05/15/86	0001			5690.		10.	-
	01/09/87	0001			6850.		10.	-
	04/06/88	0001			6950.		10.	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:

I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0785
 NORTH COORDINATE: 52770.8 FT
 EAST COORDINATE: 58816.5 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C2 SANDSTONE (TT)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TOTAL DISSOLVED SOLIDS	07/15/88	0001	MG/L		6850.		10.	-
	01/08/89	0001			6842.		10.	-
	09/19/89	0001			6680.		10.	-
	03/31/90	0001			6230.		10.	-
	01/15/91	0001			6840.		10.	-
	11/25/92	0001			6160.		10.	-
TOTAL KJELDAHL NITROGEN	01/15/91	0001	MG/L		1.		1.	-
	11/25/92	0001			1.		1.	-
TOTAL ORGANIC CARBON	04/06/88	0001	MG/L		207.		1.	-
	07/15/88	0001			161.		1.	-
	01/08/89	0001			13.		1.	-
	09/19/89	0001			162.		1.	-
	03/31/90	0001			22.9		1.	-
	01/15/91	0001			11.	J	1.	-
URANIUM	10/15/85	0001	MG/L		0.806		0.003	-
	05/15/86	0001			1.25		0.003	-
	01/09/87	0001			3.30		0.003	-
	04/06/88	0001			1.87		0.003	-
	07/15/88	0001			1.67		0.003	-
	01/08/89	0001			1.810		0.003	-
	09/19/89	0001			1.47		0.003	-
	03/31/90	0001			0.985		0.003	-
	01/15/91	0001			1.78		0.001	-
	11/25/92	0001			0.417	H	0.001	-
VANADIUM	10/15/85	0001	MG/L		0.01		0.01	-
	05/15/86	0001			0.4		0.01	-
	01/09/87	0001			0.01		0.01	-
	04/06/88	0001			0.12		0.01	-
	07/15/88	0001			0.06		0.01	-
	01/08/89	0001			0.01		0.01	-
	09/19/89	0001			0.01		0.01	-
	03/31/90	0001			0.01		0.01	-
	01/15/91	0001			0.01		0.01	-
	11/25/92	0001			0.01		0.01	-
ZINC	10/15/85	0001	MG/L		0.015		0.005	-
	04/06/88	0001			0.315		0.005	-
	07/15/88	0001			0.084		0.005	-
	01/08/89	0001			0.05		0.005	-
	09/19/89	0001			0.005		0.005	-
	03/31/90	0001			0.017		0.005	-
	01/15/91	0001			0.005		0.005	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:

0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:

H - HOLD TIME EXPIRED, VALUE SUSPECT

J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0786
 NORTH COORDINATE: 52888.5 FT
 EAST COORDINATE: 59760.9 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C1 SANDSTONE (TO)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	10/03/85	0001	MG/L CACO3		381.		-	-
	10/03/85	0002			381.		-	-
	10/03/85	0003			381.		-	-
	10/03/85	0004			381.		-	-
	10/03/85	0005			381.		-	-
	05/14/86	0001			349.		-	-
	01/09/87	0001			415.		-	-
	07/15/88	0001			431.		-	-
	01/07/89	0001			222.		-	-
	09/19/89	0001			497.		-	-
	03/31/90	0001			494.		-	-
	01/16/91	0001			471.		-	-
	11/24/92	0001			524		-	-
ALUMINUM	10/03/85	0001	MG/L		0.4		0.1	-
	10/03/85	0002			0.3		0.1	-
	10/03/85	0003			0.2		0.1	-
	10/03/85	0004			0.2		0.1	-
	10/03/85	0005			0.3		0.1	-
	07/15/88	0001			0.2		0.1	-
	01/07/89	0001		<	0.05	J	0.1	-
	09/19/89	0001			0.1		0.1	-
	03/31/90	0001		<	0.1		0.1	-
	01/16/91	0001		<	0.05		0.05	-
AMMONIUM	10/03/85	0001	MG/L	<	0.1		0.1	-
	10/03/85	0002		<	0.1		0.1	-
	10/03/85	0003			0.2		0.1	-
	10/03/85	0004		<	0.1		0.1	-
	10/03/85	0005		<	0.1		0.1	-
	07/15/88	0001		<	0.1		0.1	-
	01/07/89	0001			0.10		0.1	-
	09/19/89	0001		<	0.1		0.1	-
	03/31/90	0001		<	0.1		0.1	-
	01/16/91	0001			0.12		0.01	-
	11/24/92	0001			0.2		0.1	-
ANTIMONY	10/03/85	0001	MG/L	<	0.003		0.003	-
	10/03/85	0002		<	0.003		0.003	-
	10/03/85	0003		<	0.003		0.003	-
	10/03/85	0004		<	0.003		0.003	-
	10/03/85	0005		<	0.003		0.003	-
	07/15/88	0001			0.018		0.003	-
	01/07/89	0001		<	0.001	J	0.003	-
	09/19/89	0001			0.004		0.003	-
	03/31/90	0001			0.034		0.003	-
	01/16/91	0001		<	0.003		0.003	-
	11/24/92	0001		<	0.003		0.003	-
ARSENIC	10/03/85	0001	MG/L	<	0.01		0.01	-
	10/03/85	0002		<	0.01		0.01	-
	10/03/85	0003		<	0.01		0.01	-
	10/03/85	0004		<	0.01		0.01	-
	10/03/85	0005		<	0.01		0.01	-
	05/14/86	0001		<	0.01		0.01	-
	01/09/87	0001			0.002	J	0.01	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

OTHER PARAMETER VALUE FLAGS:
 J - ESTIMATED VALUE

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)
 0002 - FILTERED REPLICATE SAMPLE (.45 MICRONS)
 0003 - FILTERED REPLICATE SAMPLE (.45 MICRONS)
 0004 - FILTERED REPLICATE SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0786
 NORTH COORDINATE: 52888.5 FT
 EAST COORDINATE: 59760.9 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C1 SANDSTONE (TO)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ARSENIC	07/15/88	0001	MG/L		0.01		0.01	-
	01/07/89	0001		<	0.001	J	0.01	-
	09/19/89	0001			0.02		0.01	-
	03/31/90	0001		<	0.01		0.01	-
	01/16/91	0001		<	0.03	I	0.03	-
BARIUM	10/03/85	0001	MG/L		0.2		0.1	-
	10/03/85	0002			0.2		0.1	-
	10/03/85	0003			0.3		0.1	-
	10/03/85	0004			0.2		0.1	-
	10/03/85	0005			0.2		0.1	-
	07/15/88	0001		<	0.1		0.1	-
	01/07/89	0001			0.01	J	0.1	-
	09/19/89	0001		<	0.1		0.1	-
	03/31/90	0001		<	0.1		0.1	-
	01/16/91	0001		<	0.01		0.01	-
BERYLLIUM	01/07/89	0001	MG/L	<	0.005		0.005	-
	09/19/89	0001		<	0.01		0.01	-
	03/31/90	0001		<	0.01		0.01	-
	01/16/91	0001		<	0.005		0.005	-
BORON	10/03/85	0001	MG/L		1.3		0.1	-
	10/03/85	0002			1.3		0.1	-
	10/03/85	0003			1.3		0.1	-
	10/03/85	0004			1.4		0.1	-
	10/03/85	0005			1.3		0.1	-
	05/14/86	0001			1.4		0.1	-
	01/09/87	0001			1.10		0.1	-
	07/15/88	0001			1.1		0.1	-
	01/07/89	0001			1.22		0.1	-
	09/19/89	0001			1.1		0.1	-
	03/31/90	0001			1.2		0.1	-
	01/16/91	0001			0.88		0.05	-
BROMIDE	07/15/88	0001	MG/L		0.9		0.1	-
	01/07/89	0001			1.43		0.01	-
	09/19/89	0001			0.31		0.1	-
	03/31/90	0001			1.0		0.1	-
	01/16/91	0001			1.9		0.1	-
CADMIUM	10/03/85	0001	MG/L	<	0.001		0.001	-
	10/03/85	0002		<	0.001		0.001	-
	10/03/85	0003			0.003		0.001	-
	10/03/85	0004		<	0.001		0.001	-
	10/03/85	0005		<	0.001		0.001	-
	05/14/86	0001		<	0.001		0.001	-
	07/15/88	0001		<	0.001		0.001	-
	01/07/89	0001		<	0.0001	J	0.001	-
	09/19/89	0001			0.013		0.001	-
	03/31/90	0001		<	0.001		0.001	-
	01/16/91	0001		<	0.001		0.001	-
	11/24/92	0001			0.0001	H	0.0001	-
CALCIUM	10/03/85	0001	MG/L		404.		0.01	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

OTHER PARAMETER VALUE FLAGS:

H - HOLD TIME EXPIRED, VALUE SUSPECT
 I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
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SAMPLE ID CODES:

0001 - FILTERED SAMPLE (.45 MICRONS)
 0002 - FILTERED REPLICATE SAMPLE (.45 MICRONS)
 0003 - FILTERED REPLICATE SAMPLE (.45 MICRONS)
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GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
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FORMATION OF COMPLETION: TRES HERMANOS - C1 SANDSTONE (TO)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CALCIUM	10/03/85	0002	MG/L		426.		0.01	-
	10/03/85	0003			418.		0.01	-
	10/03/85	0004			451.		0.01	-
	10/03/85	0005			455.		0.01	-
	05/14/86	0001			492.		0.01	-
	01/09/87	0001			466.		0.01	-
	07/15/88	0001			441.		0.01	-
	01/07/89	0001			467.		0.01	-
	09/19/89	0001			509.		0.01	-
	03/31/90	0001			453.		0.01	-
	01/16/91	0001			356.		0.5	-
	11/24/92	0001			444.		0.5	-
CHLORIDE	10/03/85	0001	MG/L		140.		1.	-
	10/03/85	0002			130.		1.	-
	10/03/85	0003			130.		1.	-
	10/03/85	0004			130.		1.	-
	10/03/85	0005			130.		1.	-
	05/14/86	0001			140.		1.	-
	01/09/87	0001			150.		1.	-
	07/15/88	0001			160.		1.	-
	01/07/89	0001			131.		1.	-
	09/19/89	0001			160.		1.	-
	03/31/90	0001			194.		1.	-
	01/16/91	0001			260.		0.5	-
	11/24/92	0001			179.		1.	-
CHROMIUM	10/03/85	0001	MG/L		0.04		0.01	-
	10/03/85	0002			0.04		0.01	-
	10/03/85	0003			0.04		0.01	-
	10/03/85	0004			0.04		0.01	-
	10/03/85	0005			0.04		0.01	-
	05/14/86	0001			0.03		0.01	-
	01/09/87	0001			0.02		0.01	-
	07/15/88	0001			0.14		0.01	-
	01/07/89	0001		<	0.01		0.01	-
	09/19/89	0001		<	0.01		0.01	-
	03/31/90	0001		<	0.01		0.01	-
	01/16/91	0001		<	0.01		0.01	-
	11/24/92	0001		<	0.01		0.01	-
COBALT	10/03/85	0001	MG/L		0.07		0.05	-
	10/03/85	0002			0.06		0.05	-
	10/03/85	0003			0.07		0.05	-
	10/03/85	0004			0.08		0.05	-
	10/03/85	0005			0.08		0.05	-
	05/14/86	0001			0.09		0.05	-
	01/09/87	0001			0.05		0.05	-
	07/15/88	0001		<	0.05		0.05	-
	01/07/89	0001		<	0.01	J	0.05	-
	09/19/89	0001		<	0.05		0.05	-
	03/31/90	0001		<	0.05		0.05	-
	01/16/91	0001		<	0.03		0.03	-
	11/24/92	0001		<	0.03		0.03	-
COPPER	10/03/85	0001	MG/L		0.03		0.02	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

OTHER PARAMETER VALUE FLAGS:
 J - ESTIMATED VALUE

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)
 0002 - FILTERED REPLICATE SAMPLE (.45 MICRONS)
 0003 - FILTERED REPLICATE SAMPLE (.45 MICRONS)
 0004 - FILTERED REPLICATE SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0786
 NORTH COORDINATE: 52888.5 FT
 EAST COORDINATE: 59760.9 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C1 SANDSTONE (TO)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
COPPER	10/03/85	0002	MG/L		0.04		0.02	-
	10/03/85	0003			0.04		0.02	-
	10/03/85	0004			0.04		0.02	-
	10/03/85	0005			0.03		0.02	-
	01/09/87	0001			0.02		0.02	-
	07/15/88	0001			0.02		0.02	-
	01/07/89	0001		<	0.01	J	0.02	-
	09/19/89	0001		<	0.02		0.02	-
	03/31/90	0001		<	0.02		0.02	-
	01/16/91	0001		<	0.01		0.01	-
CYANIDE	10/03/85	0001	MG/L	<	0.01		0.01	-
	10/03/85	0002		<	0.01		0.01	-
	10/03/85	0003		<	0.01		0.01	-
	10/03/85	0004		<	0.01		0.01	-
	10/03/85	0005		<	0.01		0.01	-
	01/07/89	0001			0.540		0.01	-
	09/19/89	0001			0.08		0.01	-
	03/31/90	0001			0.96		0.01	-
	01/16/91	0001			0.76		0.01	-
FLUORIDE	10/03/85	0001	MG/L		2.1		0.1	-
	10/03/85	0002			2.1		0.1	-
	10/03/85	0003			2.1		0.1	-
	10/03/85	0004			2.1		0.1	-
	10/03/85	0005			2.1		0.1	-
	05/14/86	0001			0.6		0.1	-
	01/09/87	0001			2.19		0.1	-
	07/15/88	0001			1.8		0.1	-
	01/07/89	0001			2.2		0.1	-
	09/19/89	0001			1.8		0.1	-
	03/31/90	0001			1.7		0.1	-
	01/16/91	0001			2.4		0.1	-
	11/24/92	0001			2.1		0.3	-
GROSS ALPHA	01/09/87	0001	PCI/L		700.		0.2	100.
	07/15/88	0001			1200.		0.2	100.
	01/07/89	0001			408.	J	1.	62.1
	09/19/89	0001			1300.		1.	100.
	03/31/90	0001			1200.		1.	100.
	01/16/91	0001			1278.		1.	127.
	11/24/92	0001			1290.		1.0	130.
GROSS BETA	01/09/87	0001	PCI/L		290.		1.	20.
	07/15/88	0001			340.		1.	20.
	01/07/89	0001			467.		0.5	42.9
	09/19/89	0001			580.		0.5	30.
	03/31/90	0001			750.		0.5	50.
	01/16/91	0001			627.		0.5	45.4
	11/24/92	0001			590.		65.8	59.7
IRON	10/03/85	0001	MG/L		0.09		0.03	-
	10/03/85	0002			0.1		0.03	-
	10/03/85	0003			0.15		0.03	-
	10/03/85	0004			0.1		0.03	-
	10/03/85	0005			0.15		0.03	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

OTHER PARAMETER VALUE FLAGS:
 J - ESTIMATED VALUE

SAMPLE ID CODES:

0001 - FILTERED SAMPLE (.45 MICRONS)
 0002 - FILTERED REPLICATE SAMPLE (.45 MICRONS)
 0003 - FILTERED REPLICATE SAMPLE (.45 MICRONS)
 0004 - FILTERED REPLICATE SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0786
 NORTH COORDINATE: 52888.5 FT
 EAST COORDINATE: 59760.9 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C1 SANDSTONE (TO)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
IRON	05/14/86	0001	MG/L		0.18		0.03	-
	01/09/87	0001			0.46		0.03	-
	07/15/88	0001			0.30		0.03	-
	01/07/89	0001			0.23		0.03	-
	09/19/89	0001			0.38		0.03	-
	03/31/90	0001			0.40		0.03	-
	01/16/91	0001		<	0.03		0.03	-
	11/24/92	0001			0.24		0.03	-
LEAD	10/03/85	0001	MG/L	<	0.01		0.01	-
	10/03/85	0002		<	0.01		0.01	-
	10/03/85	0003		<	0.01		0.01	-
	10/03/85	0004		<	0.01		0.01	-
	10/03/85	0005		<	0.01		0.01	-
	07/15/88	0001		<	0.01		0.01	-
	01/07/89	0001			0.006	J	0.01	-
	09/19/89	0001			0.02		0.01	-
	03/31/90	0001		<	0.01		0.01	-
	01/16/91	0001		<	0.03	I	0.03	-
LEAD-210	10/03/85	0001	PCI/L		7.1		1.5	1.6
	10/03/85	0002			8.3		1.5	1.7
	10/03/85	0003			8.8		1.5	1.5
	10/03/85	0004			8.2		1.5	1.5
	10/03/85	0005			6.2		1.5	1.4
	07/15/88	0001			0.3		1.5	1.0
	01/07/89	0001			5.33		1.5	4.30
	09/19/89	0001			0.4		1.5	0.7
MAGNESIUM	10/03/85	0001	MG/L		279.		0.001	-
	10/03/85	0002			278.		0.001	-
	10/03/85	0003			280.		0.001	-
	10/03/85	0004			283.		0.001	-
	10/03/85	0005			286.		0.001	-
	05/14/86	0001			274.		0.001	-
	01/09/87	0001			291.		0.001	-
	07/15/88	0001			270.		0.001	-
	01/07/89	0001			320.		0.001	-
	09/19/89	0001			296.		0.001	-
	03/31/90	0001			284.		0.001	-
	01/16/91	0001			214.		0.5	-
	11/24/92	0001			278.		0.5	-
MANGANESE	10/03/85	0001	MG/L		0.05		0.01	-
	10/03/85	0002			0.06		0.01	-
	10/03/85	0003			0.06		0.01	-
	10/03/85	0004			0.06		0.01	-
	10/03/85	0005			0.05		0.01	-
	05/14/86	0001			0.07		0.01	-
	01/09/87	0001			0.05		0.01	-
	07/15/88	0001			0.06		0.01	-
	01/07/89	0001			0.03		0.01	-
	09/19/89	0001			0.04		0.01	-
	03/31/90	0001			0.04		0.01	-
	01/16/91	0001			0.02		0.01	-
MERCURY	10/03/85	0001	MG/L	<	0.0002		0.0002	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

OTHER PARAMETER VALUE FLAGS:

I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
 J - ESTIMATED VALUE

SAMPLE ID CODES:

0001 - FILTERED SAMPLE (.45 MICRONS)
 0002 - FILTERED REPLICATE SAMPLE (.45 MICRONS)
 0003 - FILTERED REPLICATE SAMPLE (.45 MICRONS)
 0004 - FILTERED REPLICATE SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0786
 NORTH COORDINATE: 52888.5 FT
 EAST COORDINATE: 59760.9 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C1 SANDSTONE (TO)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
MERCURY	10/03/85	0002	MG/L	<	0.0002		0.0002	-
	10/03/85	0003		<	0.0002		0.0002	-
	10/03/85	0004		<	0.0002		0.0002	-
	10/03/85	0005		<	0.0002		0.0002	-
	07/15/88	0001			0.0003		0.0002	-
	01/07/89	0001		<	0.0001	J	0.0002	-
	09/19/89	0001		<	0.0002		0.0002	-
	03/31/90	0001		<	0.0002		0.0002	-
	01/16/91	0001		<	0.0002		0.0002	-
MOLYBDENUM	10/03/85	0001	MG/L		0.2		0.01	-
	10/03/85	0002			0.34		0.01	-
	10/03/85	0003			0.22		0.01	-
	10/03/85	0004			0.1		0.01	-
	10/03/85	0005			0.2		0.01	-
	05/14/86	0001			0.16		0.01	-
	01/09/87	0001		<	0.1		0.1	-
	07/15/88	0001			0.14		0.01	-
	01/07/89	0001			0.070		0.01	-
	09/19/89	0001			0.15		0.01	-
	03/31/90	0001			0.17		0.01	-
	01/16/91	0001			0.10		0.01	-
	11/24/92	0001			0.18		0.01	-
NET GROSS ALPHA *	01/09/87	0001	PCI/L		-109.48		-	-
	07/15/88	0001			225.88		-	-
	01/07/89	0001			-518.10		-	-
	09/19/89	0001			456.22		-	-
	03/31/90	0001			-89.68		-	-
	01/16/91	0001			-697.68		-	-
	11/24/92	0001			-431.86		-	-
NICKEL	10/03/85	0001	MG/L		0.1		0.04	-
	10/03/85	0002			0.1		0.04	-
	10/03/85	0003			0.09		0.04	-
	10/03/85	0004			0.09		0.04	-
	10/03/85	0005		<	0.04		0.04	-
	07/15/88	0001			0.08		0.04	-
	01/07/89	0001		<	0.02	J	0.04	-
	09/19/89	0001		<	0.04		0.04	-
	03/31/90	0001		<	0.04		0.04	-
	01/16/91	0001		<	0.04		0.04	-
	11/24/92	0001			0.13		0.04	-
NITRATE	10/03/85	0001	MG/L		45.		1.	-
	10/03/85	0002			55.		1.	-
	10/03/85	0003			55.		1.	-
	10/03/85	0004			55.		1.	-
	10/03/85	0005			55.		1.	-
	05/14/86	0001		<	1.		1.	-
	01/09/87	0001			49.		1.	-
	07/15/88	0001			9.2		1.	-
	01/07/89	0001			24.3		1.	-
	09/19/89	0001			7.5		1.	-

* NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

OTHER PARAMETER VALUE FLAGS:
 J - ESTIMATED VALUE

SAMPLE ID CODES:

0001 - FILTERED SAMPLE (.45 MICRONS)
 0002 - FILTERED REPLICATE SAMPLE (.45 MICRONS)
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 0004 - FILTERED REPLICATE SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0786
 NORTH COORDINATE: 52888.5 FT
 EAST COORDINATE: 59760.9 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C1 SANDSTONE (TO)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
NITRATE	03/31/90	0001	MG/L		6.6		1.	-
	01/16/91	0001			16.4	J	0.1	-
	11/24/92	0001			29.6		4.0	-
NITRITE	10/03/85	0001	MG/L	<	0.1		0.1	-
	10/03/85	0002		<	0.1		0.1	-
	10/03/85	0003		<	0.1		0.1	-
	10/03/85	0004		<	0.1		0.1	-
	10/03/85	0005		<	0.1		0.1	-
NITRITE AND NITRATE	03/31/90	0001	MG/L		1.5		1.	-
	01/16/91	0001			4.15		0.05	-
PH	10/03/85	0001	SU		7.		-	-
	10/03/85	0002			7.		-	-
	10/03/85	0003			7.		-	-
	10/03/85	0004			7.		-	-
	10/03/85	0005			7.		-	-
	05/14/86	0001			7.88		-	-
	01/09/87	0001			7.30		-	-
	07/15/88	0001			7.00		-	-
	01/07/89	0001			7.0		-	-
	09/19/89	0001			7.13		-	-
	03/31/90	0001			6.80		-	-
	01/16/91	0001			7.20		-	-
	11/24/92	0001			7.16		-	-
PHOSPHATE	10/03/85	0001	MG/L		0.4		0.1	-
	10/03/85	0002			0.4		0.1	-
	10/03/85	0003			0.3		0.1	-
	10/03/85	0004			0.4		0.1	-
	10/03/85	0005			0.4		0.1	-
	07/15/88	0001		<	0.1		0.1	-
	01/07/89	0001		<	0.1		0.1	-
	09/19/89	0001		<	0.1		0.1	-
	03/31/90	0001		<	0.1		0.1	-
	01/16/91	0001			0.20		0.05	-
	11/24/92	0001			1.0		0.1	-
POLONIUM-210	10/03/85	0001	PCI/L		0.		1.	0.6
	10/03/85	0002			0.		1.	0.6
	10/03/85	0003			0.		1.	0.6
	10/03/85	0004			0.		1.	0.6
	10/03/85	0005			0.		1.	0.6
	07/15/88	0001			0.0		1.	0.4
	01/07/89	0001			1.18		1.	1.72
	09/19/89	0001			1.5		1.	0.5
POTASSIUM	10/03/85	0001	MG/L		5.83		0.01	-
	10/03/85	0002			5.65		0.01	-
	10/03/85	0003			5.71		0.01	-
	10/03/85	0004			5.95		0.01	-
	10/03/85	0005			5.72		0.01	-
	05/14/86	0001			6.26		0.01	-
	01/09/87	0001			5.67		0.01	-
	07/15/88	0001			5.1		0.01	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

OTHER PARAMETER VALUE FLAGS:
 J - ESTIMATED VALUE

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GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0786
 NORTH COORDINATE: 52888.5 FT
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 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C1 SANDSTONE (TO)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
POTASSIUM	01/07/89	0001	MG/L		5.8		0.01	-
	09/19/89	0001			5.2		0.01	-
	03/31/90	0001			6.2		0.01	-
	01/16/91	0001			4.6		0.01	-
	11/24/92	0001			6.20		0.01	-
RADIUM-226	10/03/85	0001	PCI/L		1.7		1.	0.5
	10/03/85	0002			1.9		1.	0.5
	10/03/85	0003			1.4		1.	0.4
	10/03/85	0004			1.9		1.	0.5
	10/03/85	0005			8.6		1.	1.1
	01/09/87	0001			0.9		1.	0.5
	07/15/88	0001			0.7		1.	0.3
	01/07/89	0001			2.14		1.	0.394
	09/19/89	0001			0.1		1.	0.2
	03/31/90	0001			0.1		1.	0.1
	01/16/91	0001			1.4		1.	0.6
	11/24/92	0001			1.5		0.3	0.5
RADIUM-226 + RADIUM-228	10/03/85	0001	PCI/L		3.70		-	-
	10/03/85	0002			1.90		-	-
	10/03/85	0003			1.70		-	-
	10/03/85	0004			2.00		-	-
	10/03/85	0005			9.40		-	-
	01/09/87	0001			1.70		-	-
	07/15/88	0001			1.40		-	-
	01/07/89	0001			9.92		-	-
	09/19/89	0001			0.40		-	-
	03/31/90	0001			1.40		-	-
	01/16/91	0001			1.90		-	-
	11/24/92	0001			1.60		-	-
RADIUM-228	10/03/85	0001	PCI/L		2.		1.	2.8
	10/03/85	0002			0.		1.	1.3
	10/03/85	0003			0.3		1.	0.9
	10/03/85	0004			0.1		1.	1.
	10/03/85	0005			0.8		1.	1.1
	01/09/87	0001			0.8		1.	1.2
	07/15/88	0001			0.7		1.	0.8
	01/07/89	0001			7.78		1.	5.00
	09/19/89	0001			0.3		1.	1.0
	03/31/90	0001			1.3		1.	0.8
	01/16/91	0001			0.5		1.	1.7
	11/24/92	0001			0.1	H	1.0	1.5
SELENIUM	10/03/85	0001	MG/L		0.014		0.005	-
	10/03/85	0002			0.015		0.005	-
	10/03/85	0003		<	0.005		0.005	-
	10/03/85	0004		<	0.005		0.005	-
	10/03/85	0005		<	0.005		0.005	-
	05/14/86	0001		<	0.005		0.005	-
	01/09/87	0001			0.544		0.005	-
	07/15/88	0001			0.685		0.005	-
	01/07/89	0001			0.780		0.005	-
	09/19/89	0001			0.519		0.005	-
	03/31/90	0001			0.346		0.005	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

OTHER PARAMETER VALUE FLAGS:
 H - HOLD TIME EXPIRED, VALUE SUSPECT

SAMPLE ID CODES:
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GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
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 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C1 SANDSTONE (TO)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SELENIUM	01/16/91	0001	MG/L		0.420		0.005	-
	11/24/92	0001			0.6		0.1	-
SILICA - SiO2	10/03/85	0001	MG/L		11.		2.	-
	10/03/85	0002			10.		2.	-
	10/03/85	0003			11.		2.	-
	10/03/85	0004			13.		2.	-
	10/03/85	0005			12.		2.	-
	07/15/88	0001			12.3		2.	-
	01/07/89	0001			11.0		2.	-
	09/19/89	0001			7.5		2.	-
	03/31/90	0001			13.		2.	-
	01/16/91	0001			9.9		0.1	-
SILVER	10/03/85	0001	MG/L	<	0.01		0.01	-
	10/03/85	0002		<	0.01		0.01	-
	10/03/85	0003		<	0.01		0.01	-
	10/03/85	0004		<	0.01		0.01	-
	10/03/85	0005		<	0.01		0.01	-
	01/09/87	0001		<	0.01		0.01	-
	07/15/88	0001			0.02		0.01	-
	01/07/89	0001		<	0.01		0.01	-
	09/19/89	0001			0.01		0.01	-
	03/31/90	0001		<	0.01		0.01	-
	01/16/91	0001		<	0.01		0.01	-
	11/24/92	0001		<	0.01		0.01	-
SODIUM	10/03/85	0001	MG/L		883.		0.002	-
	10/03/85	0002			663.		0.002	-
	10/03/85	0003			668.		0.002	-
	10/03/85	0004			660.		0.002	-
	10/03/85	0005			600.		0.002	-
	05/14/86	0001			688.		0.002	-
	01/09/87	0001			645.		0.002	-
	07/15/88	0001			547.		0.002	-
	01/07/89	0001			615.		0.002	-
	09/19/89	0001			581.		0.002	-
	03/31/90	0001			613.		0.002	-
	01/16/91	0001			659.		5.	-
	11/24/92	0001			604.		5.	-
SPECIFIC CONDUCTANCE	10/03/85	0001	UMHO/CM		3600.		-	-
	10/03/85	0002			3600.		-	-
	10/03/85	0003			3600.		-	-
	10/03/85	0004			3600.		-	-
	10/03/85	0005			3600.		-	-
	05/14/86	0001			2950.		-	-
	01/09/87	0001			3400.		-	-
	07/15/88	0001			3600.		-	-
	01/07/89	0001			2550.		-	-
	09/19/89	0001			1300.		-	-
	03/31/90	0001			3620.		-	-
	01/16/91	0001			3650.		-	-
	11/24/92	0001			4080		-	-
STRONTIUM	10/03/85	0001	MG/L		10.		0.1	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)
 0002 - FILTERED REPLICATE SAMPLE (.45 MICRONS)
 0003 - FILTERED REPLICATE SAMPLE (.45 MICRONS)
 0004 - FILTERED REPLICATE SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0786
 NORTH COORDINATE: 52888.5 FT
 EAST COORDINATE: 59760.9 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C1 SANDSTONE (TO)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
STRONTIUM	10/03/85	0002	MG/L		10.		0.1	-
	10/03/85	0003			11.		0.1	-
	10/03/85	0004			11.		0.1	-
	10/03/85	0005			11.		0.1	-
	05/14/86	0001			9.0		0.1	-
	07/15/88	0001			8.7		0.1	-
	01/07/89	0001			11.0		0.1	-
	09/19/89	0001			8.9		0.1	-
	03/31/90	0001			9.93		0.1	-
	01/16/91	0001			8.75		0.01	-
SULFATE	10/03/85	0001	MG/L		3010.		0.1	-
	10/03/85	0002			3010.		0.1	-
	10/03/85	0003			2960.		0.1	-
	10/03/85	0004			3040.		0.1	-
	10/03/85	0005			2930.		0.1	-
	05/14/86	0001			3170.		0.1	-
	01/09/87	0001			2900.		0.1	-
	07/15/88	0001			2740.		0.1	-
	01/07/89	0001			3235.		0.1	-
	09/19/89	0001			2980.		0.1	-
	03/31/90	0001			3130.		0.1	-
	01/16/91	0001			3080.		10.	-
	11/24/92	0001			2790.		10.	-
SULFIDE	10/03/85	0001	MG/L	<	0.1		0.1	-
	10/03/85	0002		<	0.1		0.1	-
	10/03/85	0003		<	0.1		0.1	-
	10/03/85	0004		<	0.1		0.1	-
	10/03/85	0005		<	0.1		0.1	-
	07/15/88	0001		<	0.1		0.1	-
	01/07/89	0001		<	0.01	J	0.1	-
	09/19/89	0001		<	0.1		0.1	-
	03/31/90	0001		<	0.1		0.1	-
	01/16/91	0001		<	0.1	J	0.1	-
TEMPERATURE	10/03/85	0001	C - DEGREE		12.		-	-
	10/03/85	0002			12.		-	-
	10/03/85	0003			12.		-	-
	10/03/85	0004			12.		-	-
	10/03/85	0005			12.		-	-
	05/14/86	0001			15.		-	-
	01/09/87	0001			11.		-	-
	07/15/88	0001			12.0		-	-
	01/07/89	0001			12.0		-	-
	09/19/89	0001			13.0		-	-
	03/31/90	0001			12.		-	-
	01/16/91	0001			11.5		-	-
	11/24/92	0001			11.0		-	-
THALLIUM	01/07/89	0001	MG/L	<	0.001		0.001	-
	09/19/89	0001		<	0.01		0.01	-
	03/31/90	0001		<	0.01		0.01	-
	01/16/91	0001		<	0.03	I	0.03	-
THORIUM-230	10/03/85	0001	PCI/L		0.1		1.	0.3

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

OTHER PARAMETER VALUE FLAGS:
 I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
 J - ESTIMATED VALUE

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)
 0002 - FILTERED REPLICATE SAMPLE (.45 MICRONS)
 0003 - FILTERED REPLICATE SAMPLE (.45 MICRONS)
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GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0786
 NORTH COORDINATE: 52888.5 FT
 EAST COORDINATE: 59760.9 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C1 SANDSTONE (TO)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
THORIUM-230	10/03/85	0002	PCI/L		0.1		1.	0.3
	10/03/85	0003			0.4		1.	0.4
	10/03/85	0004			1.1		1.	0.7
	10/03/85	0005			2.5		1.	1.4
	07/15/88	0001			0.4		1.	0.5
	01/07/89	0001			0.790		1.	0.290
	09/19/89	0001			0.1		1.	0.4
TIN	10/03/85	0001	MG/L	<	0.005		0.005	-
	10/03/85	0002		<	0.005		0.005	-
	10/03/85	0003		<	0.005		0.005	-
	10/03/85	0004		<	0.005		0.005	-
	10/03/85	0005		<	0.005		0.005	-
	07/15/88	0001			0.013		0.005	-
	01/07/89	0001		<	0.005		0.005	-
	09/19/89	0001			0.096		0.005	-
	03/31/90	0001			0.007		0.005	-
	01/16/91	0001		<	0.03	I	0.03	-
TOTAL DISSOLVED SOLIDS	10/03/85	0001	MG/L		5250.		10.	-
	10/03/85	0002			5290.		10.	-
	10/03/85	0003			5270.		10.	-
	10/03/85	0004			5240.		10.	-
	10/03/85	0005			5330.		10.	-
	05/14/86	0001			5230.		10.	-
	01/09/87	0001			5440.		10.	-
	07/15/88	0001			5380.		10.	-
	01/07/89	0001			5428.		10.	-
	09/19/89	0001			5060.		10.	-
	03/31/90	0001			4880.		10.	-
	01/16/91	0001			5390.		10.	-
	11/24/92	0001			5540.		10.	-
TOTAL KJELDAHL NITROGEN	01/16/91	0001	MG/L		1.		1.	-
	11/24/92	0001			1.		1.	-
TOTAL ORGANIC CARBON	10/03/85	0002	MG/L		83.		1.	-
	10/03/85	0003			83.		1.	-
	10/03/85	0005			83.		1.	-
	07/15/88	0001			118.		1.	-
	01/07/89	0001			11.		1.	-
	09/19/89	0001			136.		1.	-
	03/31/90	0001			13.0		1.	-
	01/16/91	0001			10.	J	1.	-
	11/24/92	0001			14.		1.	-
URANIUM	10/03/85	0001	MG/L		0.721		0.003	-
	10/03/85	0002			0.775		0.003	-
	10/03/85	0003			0.721		0.003	-
	10/03/85	0004			0.695		0.003	-
	10/03/85	0005			0.475		0.003	-
	05/14/86	0001			0.699		0.003	-
	01/09/87	0001			1.18		0.003	-
	07/15/88	0001			1.42		0.003	-
	01/07/89	0001			1.350		0.003	-
	09/19/89	0001			1.23		0.003	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

OTHER PARAMETER VALUE FLAGS:

I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

J - ESTIMATED VALUE

SAMPLE ID CODES:

0001 - FILTERED SAMPLE (.45 MICRONS)

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GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0786
 NORTH COORDINATE: 52888.5 FT
 EAST COORDINATE: 59760.9 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C1 SANDSTONE (TO)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
URANIUM	03/31/90	0001	MG/L		1.88		0.003	-
	01/16/91	0001			2.88		0.001	-
	11/24/92	0001			2.51	H	0.001	-
VANADIUM	10/03/85	0001	MG/L	<	0.01		0.01	-
	10/03/85	0002		<	0.01		0.01	-
	10/03/85	0003		<	0.01		0.01	-
	10/03/85	0004			0.05		0.01	-
	10/03/85	0005		<	0.1		0.1	-
	05/14/86	0001			0.42		0.01	-
	01/09/87	0001			0.01		0.01	-
	07/15/88	0001			0.06		0.01	-
	01/07/89	0001		<	0.01		0.01	-
	09/19/89	0001			0.02		0.01	-
	03/31/90	0001		<	0.01		0.01	-
	01/16/91	0001		<	0.01		0.01	-
	11/24/92	0001		<	0.05	I	0.05	-
ZINC	10/03/85	0001	MG/L		0.036		0.005	-
	10/03/85	0002			0.05		0.005	-
	10/03/85	0003			0.034		0.005	-
	10/03/85	0004			0.038		0.005	-
	10/03/85	0005			0.031		0.005	-
	07/15/88	0001			0.166		0.005	-
	01/07/89	0001			0.03		0.005	-
	09/19/89	0001		<	0.005		0.005	-
	03/31/90	0001		<	0.005		0.005	-
	01/16/91	0001		<	0.005		0.005	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

OTHER PARAMETER VALUE FLAGS:

H - HOLD TIME EXPIRED, VALUE SUSPECT

I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

SAMPLE ID CODES:

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0002 - FILTERED REPLICATE SAMPLE (.45 MICRONS)

0003 - FILTERED REPLICATE SAMPLE (.45 MICRONS)

0004 - FILTERED REPLICATE SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0787
 NORTH COORDINATE: 52842.6 FT
 EAST COORDINATE: 61202.9 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C2 SANDSTONE (TT)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	10/06/85	0001	MG/L CaCO3		405.		-	-
	05/15/86	0001			418.		-	-
	04/06/88	0001			502.		-	-
	07/15/88	0001			435.		-	-
	01/12/89	0001			244.		-	-
	09/19/89	0001			437.		-	-
	03/31/90	0001			436.		-	-
	01/16/91	0001			448		-	-
	12/03/92	0001			466		-	-
ALUMINUM	10/06/85	0001	MG/L		0.6		0.1	-
	04/06/88	0001			0.44		0.1	-
	07/15/88	0001			0.1		0.1	-
	01/12/89	0001		<	0.05	J	0.1	-
	09/19/89	0001		<	0.1		0.1	-
	03/31/90	0001		<	0.1		0.1	-
	01/16/91	0001		<	0.05		0.05	-
AMMONIUM	10/06/85	0001	MG/L		1.		0.1	-
	04/06/88	0001			0.8		0.1	-
	07/15/88	0001			1.1		0.1	-
	01/12/89	0001			1.54		0.1	-
	09/19/89	0001			1.0		0.1	-
	03/31/90	0001			0.9		0.1	-
	01/16/91	0001			1.24		0.01	-
	12/03/92	0001			1.7	J	0.1	-
ANTIMONY	10/06/85	0001	MG/L	<	0.003		0.003	-
	04/06/88	0001			0.013		0.003	-
	07/15/88	0001			0.025		0.003	-
	01/12/89	0001			0.003		0.003	-
	09/19/89	0001			0.003		0.003	-
	03/31/90	0001			0.041		0.003	-
	01/16/91	0001		<	0.003		0.003	-
	12/03/92	0001		<	0.003		0.003	-
ARSENIC	10/06/85	0001	MG/L	<	0.01		0.01	-
	05/15/86	0001		<	0.01		0.01	-
	04/06/88	0001			0.019		0.01	-
	07/15/88	0001			0.01		0.01	-
	01/12/89	0001			0.001	J	0.01	-
	09/19/89	0001			0.01		0.01	-
	03/31/90	0001		<	0.01		0.01	-
	01/16/91	0001		<	0.03	I	0.03	-
BARIUM	10/06/85	0001	MG/L	<	0.1		0.1	-
	04/06/88	0001			0.03	J	0.1	-
	07/15/88	0001		<	0.1		0.1	-
	01/12/89	0001			0.02	J	0.1	-
	09/19/89	0001		<	0.1		0.1	-
	03/31/90	0001		<	0.1		0.1	-
	01/16/91	0001			0.01		0.01	-
BERYLLIUM	01/12/89	0001	MG/L	<	0.005		0.005	-
	09/19/89	0001		<	0.01		0.01	-
	03/31/90	0001		<	0.01		0.01	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:

0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:

I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0787
 NORTH COORDINATE: 52842.6 FT
 EAST COORDINATE: 61202.9 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C2 SANDSTONE (TT)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
BERYLLIUM	01/16/91	0001	MG/L	<	0.005		0.005	-
BORON	10/06/85	0001	MG/L		0.5		0.1	-
	05/15/86	0001			0.6		0.1	-
	04/06/88	0001			0.78		0.1	-
	07/15/88	0001			0.6		0.1	-
	01/12/89	0001			0.45		0.1	-
	09/19/89	0001			0.6		0.1	-
	03/31/90	0001			0.5		0.1	-
	01/16/91	0001			0.56		0.05	-
BROMIDE	04/06/88	0001	MG/L		0.2		0.1	-
	07/15/88	0001		<	0.1		0.1	-
	01/12/89	0001			0.14		0.01	-
	09/19/89	0001		<	0.1		0.1	-
	03/31/90	0001			0.6		0.1	-
	01/16/91	0001			0.2		0.1	-
CADMIUM	10/06/85	0001	MG/L	<	0.001		0.001	-
	05/15/86	0001		<	0.001		0.001	-
	04/06/88	0001			0.007		0.001	-
	07/15/88	0001		<	0.001		0.001	-
	01/12/89	0001		<	0.0001	J	0.001	-
	09/19/89	0001			0.012		0.001	-
	03/31/90	0001		<	0.001		0.001	-
	01/16/91	0001		<	0.001		0.001	-
	12/03/92	0001		<	0.001		0.001	-
CALCIUM	10/06/85	0001	MG/L		351.		0.01	-
	05/15/86	0001			308.		0.01	-
	04/06/88	0001			423.		0.01	-
	07/15/88	0001			290.		0.01	-
	01/12/89	0001			129.		0.01	-
	09/19/89	0001			311.		0.01	-
	03/31/90	0001			296.		0.01	-
	01/16/91	0001			335.		0.5	-
	12/03/92	0001			331.		0.5	-
CHLORIDE	10/06/85	0001	MG/L		2.8		1.	-
	05/15/86	0001			11.		1.	-
	04/06/88	0001			11.		1.	-
	07/15/88	0001			11.		1.	-
	01/12/89	0001			13.		1.	-
	09/19/89	0001			8.6		1.	-
	03/31/90	0001			12.		1.	-
	01/16/91	0001			12.6		0.5	-
	12/03/92	0001			11.2		0.5	-
CHROMIUM	10/06/85	0001	MG/L		0.04		0.01	-
	05/15/86	0001			0.03		0.01	-
	04/06/88	0001			0.23		0.01	-
	07/15/88	0001			0.10		0.01	-
	01/12/89	0001		<	0.01		0.01	-
	09/19/89	0001		<	0.01		0.01	-
	03/31/90	0001		<	0.01		0.01	-
	01/16/91	0001		<	0.01		0.01	-
	12/03/92	0001		<	0.01		0.01	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0787
 NORTH COORDINATE: 52842.6 FT
 EAST COORDINATE: 61202.9 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C2 SANDSTONE (TT)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
COBALT	10/06/85	0001	MG/L	<	0.05		0.05	-
	05/15/86	0001		<	0.05		0.05	-
	04/06/88	0001			0.10		0.05	-
	07/15/88	0001		<	0.05		0.05	-
	01/12/89	0001		<	0.01	J	0.05	-
	09/19/89	0001		<	0.05		0.05	-
	03/31/90	0001		<	0.05		0.05	-
	01/16/91	0001		<	0.03		0.03	-
	12/03/92	0001		<	0.03		0.03	-
COPPER	10/06/85	0001	MG/L		0.03		0.02	-
	04/06/88	0001			0.04		0.02	-
	07/15/88	0001		<	0.02		0.02	-
	01/12/89	0001		<	0.01	J	0.02	-
	09/19/89	0001		<	0.02		0.02	-
	03/31/90	0001		<	0.02		0.02	-
	01/16/91	0001		<	0.01		0.01	-
CYANIDE	10/06/85	0001	MG/L	<	0.01		0.01	-
	01/12/89	0001			0.002	J	0.01	-
	09/19/89	0001		<	0.01		0.01	-
	03/31/90	0001		<	0.01		0.01	-
	01/16/91	0001		<	0.01		0.01	-
FLUORIDE	10/06/85	0001	MG/L		0.5		0.1	-
	05/15/86	0001			0.5		0.1	-
	04/06/88	0001			0.30		0.1	-
	07/15/88	0001			0.3		0.1	-
	01/12/89	0001			0.2		0.1	-
	09/19/89	0001			0.2		0.1	-
	03/31/90	0001			0.3		0.1	-
	01/16/91	0001			0.3		0.1	-
	12/03/92	0001			0.3		0.1	-
GROSS ALPHA	04/06/88	0001	PCI/L		5.		0.2	26.
	07/15/88	0001			13.		0.2	28.
	01/12/89	0001			33.1	J	1.	40.5
	09/19/89	0001			0.		1.	14.
	03/31/90	0001			8.		1.	16.
	01/16/91	0001			57.4		1.	36.6
	12/03/92	0001			7.0		1.0	28.5
GROSS BETA	04/06/88	0001	PCI/L		44.		1.	17.
	07/15/88	0001			30.		1.	12.
	01/12/89	0001			138.		0.5	52.0
	09/19/89	0001			31.		0.5	12.
	03/31/90	0001			24.		0.5	14.
	01/16/91	0001			50.3		0.5	18.7
	12/03/92	0001			1.4		51.1	30.4
IRON	10/06/85	0001	MG/L		0.18		0.03	-
	05/15/86	0001			0.63		0.03	-
	04/06/88	0001			1.29		0.03	-
	07/15/88	0001			0.32		0.03	-
	01/12/89	0001		<	0.02	J	0.03	-
	09/19/89	0001			0.08		0.03	-
	03/31/90	0001			0.23		0.03	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0787
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 EAST COORDINATE: 61202.9 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C2 SANDSTONE (TT)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
IRON	01/16/91	0001	MG/L		0.31		0.03	-
	12/03/92	0001			0.52		0.03	-
LEAD	10/06/85	0001	MG/L	<	0.01		0.01	-
	04/06/88	0001			0.01		0.01	-
	07/15/88	0001		<	0.01		0.01	-
	01/12/89	0001		<	0.001	J	0.01	-
	09/19/89	0001			0.02		0.01	-
	03/31/90	0001		<	0.01		0.01	-
	01/16/91	0001		<	0.03	I	0.03	-
LEAD-210	10/06/85	0001	PCI/L		0.		1.5	1.1
	04/06/88	0001			1.0		1.5	1.0
	07/15/88	0001			0.1		1.5	1.4
	01/12/89	0001			0.00		1.5	10.6
	09/19/89	0001			0.0		1.5	0.7
MAGNESIUM	10/06/85	0001	MG/L		154.		0.001	-
	05/15/86	0001			131.		0.001	-
	04/06/88	0001			150.		0.001	-
	07/15/88	0001			171.		0.001	-
	01/12/89	0001			76.		0.001	-
	09/19/89	0001			156.		0.001	-
	03/31/90	0001			155.		0.001	-
	01/16/91	0001			177.		0.5	-
	12/03/92	0001			157.		0.5	-
MANGANESE	10/06/85	0001	MG/L		0.27		0.01	-
	05/15/86	0001			0.61		0.01	-
	04/06/88	0001			0.78		0.01	-
	07/15/88	0001			0.26		0.01	-
	01/12/89	0001			0.04		0.01	-
	09/19/89	0001			0.32		0.01	-
	03/31/90	0001			0.30		0.01	-
	01/16/91	0001			0.29		0.01	-
MERCURY	10/06/85	0001	MG/L	<	0.0002		0.0002	-
	04/06/88	0001			0.0004		0.0002	-
	07/15/88	0001			0.0002		0.0002	-
	01/12/89	0001		<	0.0001	J	0.0002	-
	09/19/89	0001		<	0.0002		0.0002	-
	03/31/90	0001		<	0.0002		0.0002	-
	01/16/91	0001		<	0.0002		0.0002	-
MOLYBDENUM	10/06/85	0001	MG/L		0.25		0.01	-
	05/15/86	0001			0.19		0.01	-
	04/06/88	0001			0.10		0.01	-
	07/15/88	0001			0.05		0.01	-
	01/12/89	0001			0.002	J	0.01	-
	09/19/89	0001			0.01		0.01	-
	03/31/90	0001		<	0.01		0.01	-
	01/16/91	0001		<	0.01		0.01	-
	12/03/92	0001		<	0.01		0.01	-
NET GROSS ALPHA *	04/06/88	0001	PCI/L		-5.70		-	-

* NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:

0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:

I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION

J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
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 EAST COORDINATE: 61202.9 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C2 SANDSTONE (TT)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
NET GROSS ALPHA *	07/15/88	0001	PCI/L		8.20		-	-
	01/12/89	0001			20.75		-	-
	09/19/89	0001			-1.58		-	-
	03/31/90	0001			4.84		-	-
	01/16/91	0001			57.06		-	-
	12/03/92	0001			4.26		-	-
NICKEL	10/06/85	0001	MG/L		0.08		0.04	-
	04/06/88	0001			0.13		0.04	-
	07/15/88	0001			0.05		0.04	-
	01/12/89	0001		<	0.02	J	0.04	-
	09/19/89	0001		<	0.04		0.04	-
	03/31/90	0001		<	0.04		0.04	-
	01/16/91	0001		<	0.04		0.04	-
	12/03/92	0001			0.08		0.04	-
NITRATE	10/06/85	0001	MG/L		4.		1.	-
	05/15/86	0001			2.		1.	-
	04/06/88	0001			0.7	J	1.	-
	07/15/88	0001			3.0		1.	-
	01/12/89	0001			29.0		1.	-
	09/19/89	0001		<	1.		1.	-
	03/31/90	0001			1.1		1.	-
	01/16/91	0001			1.8	J	1.	-
	12/03/92	0001			1.2		1.0	-
NITRITE	10/06/85	0001	MG/L	<	0.1		0.1	-
NITRITE AND NITRATE	04/06/88	0001	MG/L		0.7	J	1.	-
	03/31/90	0001			0.2	J	1.	-
	01/16/91	0001			0.41		0.05	-
PH	10/06/85	0001	SU		7.08		-	-
	05/15/86	0001			7.		-	-
	04/06/88	0001			7.33		-	-
	07/15/88	0001			7.55		-	-
	01/12/89	0001			9.13		-	-
	09/19/89	0001			7.80		-	-
	03/31/90	0001			7.22		-	-
	01/16/91	0001			7.62		-	-
	12/03/92	0001			7.07		-	-
PHOSPHATE	10/06/85	0001	MG/L		0.5		0.1	-
	04/06/88	0001		<	0.1		0.1	-
	07/15/88	0001		<	0.1		0.1	-
	01/12/89	0001		<	0.1		0.1	-
	09/19/89	0001		<	0.1		0.1	-
	03/31/90	0001		<	0.1		0.1	-
	01/16/91	0001			0.13		0.05	-
	12/03/92	0001			0.1	H	0.1	-
POLONIUM-210	10/06/85	0001	PCI/L		0.		1.	0.6
	04/06/88	0001			0.1		1.	0.4
	07/15/88	0001			0.1		1.	0.5

* NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:

0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:

H - HOLD TIME EXPIRED, VALUE SUSPECT

J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0787
 NORTH COORDINATE: 52842.6 FT
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 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C2 SANDSTONE (TT)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
POLONIUM-210	01/12/89	0001	PCI/L		0.777	J	1.	1.33
	09/19/89	0001			0.3		1.	0.4
POTASSIUM	10/06/85	0001	MG/L		22.5		0.01	-
	05/15/86	0001			23.1		0.01	-
	04/06/88	0001			32.3		0.01	-
	07/15/88	0001			17.4		0.01	-
	01/12/89	0001			110.		0.01	-
	09/19/89	0001			16.5		0.01	-
	03/31/90	0001			23.6		0.01	-
	01/16/91	0001			15.		5.	-
	12/03/92	0001			12.		5.	-
RADIUM-226	10/06/85	0001	PCI/L		0.8		1.	0.3
	04/06/88	0001			0.5		1.	0.2
	07/15/88	0001			0.7		1.	0.3
	01/12/89	0001			1.56		1.	0.250
	09/19/89	0001			0.3		1.	0.2
	03/31/90	0001			0.3		1.	0.2
	01/16/91	0001			0.9		1.	0.5
	12/03/92	0001			1.8		0.3	0.5
RADIUM-226 + RADIUM-228	10/06/85	0001	PCI/L		2.30		-	-
	04/06/88	0001			1.50		-	-
	07/15/88	0001			1.50		-	-
	01/12/89	0001			1.56		-	-
	09/19/89	0001			2.00		-	-
	03/31/90	0001			1.20		-	-
	01/16/91	0001			2.30		-	-
	12/03/92	0001			4.20		-	-
RADIUM-228	10/06/85	0001	PCI/L		1.5		1.	1.2
	04/06/88	0001			1.0		1.	0.8
	07/15/88	0001			0.8		1.	0.8
	01/12/89	0001			0.00		1.	5.34
	09/19/89	0001			1.7		1.	0.9
	03/31/90	0001			0.9		1.	0.9
	01/16/91	0001			1.4		1.	1.8
	12/03/92	0001			2.4	H	1.0	0.8
SELENIUM	10/06/85	0001	MG/L	<	0.005	J	0.005	-
	05/15/86	0001		<	0.005		0.005	-
	04/06/88	0001			0.048		0.005	-
	07/15/88	0001			0.054		0.005	-
	01/12/89	0001		<	0.001		0.005	-
	09/19/89	0001			0.015		0.005	-
	03/31/90	0001		<	0.005		0.005	-
	01/16/91	0001		<	0.03	I	0.03	-
	12/03/92	0001		<	0.05	I	0.05	-
SILICA - SiO2	10/06/85	0001	MG/L		16.		2.	-
	04/06/88	0001			17.2		2.	-
	07/15/88	0001			14.4		2.	-
	01/12/89	0001			5.9		2.	-
	09/19/89	0001			12.		2.	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

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GROUNDWATER QUALITY DATA BY LOCATION
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FORMATION OF COMPLETION: TRES HERMANOS - C2 SANDSTONE (TT)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SILICA - SIO2	03/31/90	0001	MG/L		11.		2.	-
	01/16/91	0001			11.6		0.1	-
SILVER	10/06/85	0001	MG/L	<	0.01		0.01	-
	04/06/88	0001			0.09		0.01	-
	07/15/88	0001			0.01		0.01	-
	01/12/89	0001		<	0.01		0.01	-
	09/19/89	0001		<	0.01		0.01	-
	03/31/90	0001		<	0.01		0.01	-
	01/16/91	0001		<	0.01		0.01	-
	12/03/92	0001		<	0.01		0.01	-
SODIUM	10/06/85	0001	MG/L		463.		0.002	-
	05/15/86	0001			755.		0.002	-
	04/06/88	0001			497.		0.002	-
	07/15/88	0001			599.		0.002	-
	01/12/89	0001			735.		0.002	-
	09/19/89	0001			681.		0.002	-
	03/31/90	0001			665.		0.002	-
	01/16/91	0001			761.		5.	-
	12/03/92	0001			702.		5.	-
SPECIFIC CONDUCTANCE	10/06/85	0001	UMHO/CM		3300.		-	-
	05/15/86	0001			3200.		-	-
	04/06/88	0001			3100.		-	-
	07/15/88	0001			3200.		-	-
	01/12/89	0001			2800.		-	-
	09/19/89	0001			150.		-	-
	03/31/90	0001			2400.		-	-
	01/16/91	0001			3200.		-	-
	12/03/92	0001			3570		-	-
STRONTIUM	10/06/85	0001	MG/L		8.6		0.1	-
	05/15/86	0001			0.7		0.1	-
	04/06/88	0001			5.25		0.1	-
	07/15/88	0001			6.9		0.1	-
	01/12/89	0001			9.20		0.1	-
	09/19/89	0001			8.1		0.1	-
	03/31/90	0001			7.62		0.1	-
	01/16/91	0001			8.20		0.01	-
SULFATE	10/06/85	0001	MG/L		2250.		0.1	-
	05/15/86	0001			2470.		0.1	-
	04/06/88	0001			2240.		0.1	-
	07/15/88	0001			2320.		0.1	-
	01/12/89	0001			2120.		0.1	-
	09/19/89	0001			2670.		0.1	-
	03/31/90	0001			2620.		0.1	-
	01/16/91	0001			2670.		10.	-
	12/03/92	0001			2530.		10.	-
SULFIDE	10/06/85	0001	MG/L	<	0.1		0.1	-
	04/06/88	0001		<	0.1		0.1	-
	07/15/88	0001		<	0.1		0.1	-
	01/12/89	0001			0.13		0.1	-
	09/19/89	0001		<	0.1		0.1	-
	03/31/90	0001		<	0.1		0.1	-
	01/16/91	0001			2.3	J	0.1	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

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 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TEMPERATURE	10/06/85	0001	C - DEGREE		13.5		-	-
	05/15/86	0001			13.		-	-
	04/06/88	0001			12.5		-	-
	07/15/88	0001			13.0		-	-
	01/12/89	0001			10.5		-	-
	09/19/89	0001			13.0		-	-
	03/31/90	0001			13.5		-	-
	01/16/91	0001			11.5		-	-
	12/03/92	0001			12.0		-	-
THALLIUM	01/12/89	0001	MG/L	<	0.005		0.005	-
	09/19/89	0001		<	0.01		0.01	-
	03/31/90	0001		<	0.01		0.01	-
	01/16/91	0001		<	0.03	I	0.03	-
THORIUM-230	10/06/85	0001	PCI/L		0.7		1.	0.5
	04/06/88	0001			0.0		1.	0.4
	07/15/88	0001			0.2		1.	0.4
	01/12/89	0001			0.00		1.	0.296
	09/19/89	0001			0.0		1.	0.3
TIN	10/06/85	0001	MG/L	<	0.005		0.005	-
	04/06/88	0001			0.031		0.005	-
	07/15/88	0001			0.01		0.005	-
	01/12/89	0001		<	0.001	J	0.005	-
	09/19/89	0001			0.108		0.005	-
	03/31/90	0001			0.038		0.005	-
	01/16/91	0001		<	0.03	I	0.03	-
TOTAL DISSOLVED SOLIDS	10/06/85	0001	MG/L		3730.		10.	-
	05/15/86	0001			3810.		10.	-
	04/06/88	0001			4170.		10.	-
	07/15/88	0001			4300.		10.	-
	01/12/89	0001			3202.		10.	-
	09/19/89	0001			4050.		10.	-
	03/31/90	0001			4000.		10.	-
	01/16/91	0001			4290.		10.	-
	12/03/92	0001			4150.		10.	-
TOTAL KJELDAHL NITROGEN	01/16/91	0001	MG/L		1.		1.	-
	12/03/92	0001			20.		1.	-
TOTAL ORGANIC CARBON	10/06/85	0001	MG/L		53.		1.	-
	04/06/88	0001			133.		1.	-
	07/15/88	0001			115.		1.	-
	01/12/89	0001			14.		1.	-
	09/19/89	0001			122.		1.	-
	03/31/90	0001			4.2		1.	-
	01/16/91	0001			3.	J	1.	-
	12/03/92	0001			2.	H	1.	-
URANIUM	10/06/85	0001	MG/L		0.0164		0.003	-
	05/15/86	0001			0.0053		0.003	-
	04/06/88	0001			0.0156		0.003	-
	07/15/88	0001			0.0070		0.003	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:

H - HOLD TIME EXPIRED, VALUE SUSPECT
 I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0787
 NORTH COORDINATE: 52842.6 FT
 EAST COORDINATE: 61202.9 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C2 SANDSTONE (TT)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
URANIUM	01/12/89	0001	MG/L		0.018		0.003	-
	09/19/89	0001			0.0023	J	0.003	-
	03/31/90	0001			0.0046		0.003	-
	01/16/91	0001		<	0.001		0.001	-
	12/03/92	0001			0.004		0.001	-
VANADIUM	10/06/85	0001	MG/L	<	0.01		0.01	-
	05/15/86	0001			0.29		0.01	-
	04/06/88	0001			0.12		0.01	-
	07/15/88	0001			0.04		0.01	-
	01/12/89	0001		<	0.01		0.01	-
	09/19/89	0001		<	0.01		0.01	-
	03/31/90	0001		<	0.01		0.01	-
	01/16/91	0001		<	0.01		0.01	-
	12/03/92	0001		<	0.01		0.01	-
ZINC	10/06/85	0001	MG/L		0.061		0.005	-
	04/06/88	0001			0.034		0.005	-
	07/15/88	0001		<	0.005		0.005	-
	01/12/89	0001		<	0.01		0.01	-
	09/19/89	0001			0.028		0.005	-
	03/31/90	0001			0.022		0.005	-
	01/16/91	0001			0.014		0.005	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0791
 NORTH COORDINATE: 55739.9 FT
 EAST COORDINATE: 60567.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C1 SANDSTONE (TO)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	10/11/85 05/21/86	0001 0001	MG/L CaCO3		451. 2650.		- -	- -
ALUMINUM	10/11/85	0001	MG/L		0.6		0.1	-
AMMONIUM	10/11/85	0001	MG/L		1.6		0.1	-
ANTIMONY	10/11/85	0001	MG/L	<	0.003		0.003	-
ARSENIC	10/11/85 05/21/86	0001 0001	MG/L	<	0.02 0.01		0.01 0.01	- -
BARIUM	10/11/85	0001	MG/L		0.1		0.1	-
BORON	10/11/85 05/21/86	0001 0001	MG/L		0.3 0.3		0.1 0.1	- -
CADMIUM	10/11/85 05/21/86	0001 0001	MG/L	< <	0.001 0.001		0.001 0.001	- -
CALCIUM	10/11/85 05/21/86	0001 0001	MG/L		34. 181.		0.01 0.01	- -
CHLORIDE	10/11/85 05/21/86	0001 0001	MG/L		31. 38.		1. 1.	- -
CHROMIUM	10/11/85 05/21/86	0001 0001	MG/L		0.21 0.04		0.01 0.01	- -
COBALT	10/11/85 05/21/86	0001 0001	MG/L	<	0.05 0.06		0.05 0.05	- -
COPPER	10/11/85	0001	MG/L	<	0.02		0.02	-
CYANIDE	10/11/85	0001	MG/L	<	0.01		0.01	-
FLUORIDE	10/11/85 05/21/86	0001 0001	MG/L		1.1 0.4		0.1 0.1	- -
IRON	10/11/85 05/21/86	0001 0001	MG/L	< <	0.03 0.03		0.03 0.03	- -
LEAD	10/11/85	0001	MG/L	<	0.01		0.01	-
LEAD-210	10/11/85	0001	PCI/L		0.7		1.5	1.9
MAGNESIUM	10/11/85 05/21/86	0001 0001	MG/L		5.19 0.022		0.001 0.001	- -
MANGANESE	10/11/85 05/21/86	0001 0001	MG/L	<	0.02 0.01		0.01 0.01	- -
MERCURY	10/11/85	0001	MG/L	<	0.0002		0.0002	-
MOLYBDENUM	10/11/85 05/21/86	0001 0001	MG/L		0.1 0.21		0.01 0.01	- -
NICKEL	10/11/85	0001	MG/L		0.07		0.04	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0791
 NORTH COORDINATE: 55739.9 FT
 EAST COORDINATE: 60567.0 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C1 SANDSTONE (TO)
 HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
NITRATE	10/11/85	0001	MG/L		8.		1.	-
	05/21/86	0001			2.		1.	-
NITRITE	10/11/85	0001	MG/L	<	0.1		0.1	-
PH	10/11/85	0001	SU		12.09		-	-
	05/21/86	0001			12.46		-	-
PHOSPHATE	10/11/85	0001	MG/L		0.4		0.1	-
POTASSIUM	10/11/85	0001	MG/L		22.3		0.01	-
	05/21/86	0001			43.6		0.01	-
RADIUM-226	10/11/85	0001	PCI/L		0.3		1.	1.6
RADIUM-226 + RADIUM-228	10/11/85	0001	PCI/L		1.50		-	-
RADIUM-228	10/11/85	0001	PCI/L		1.2		1.	3.8
SELENIUM	10/11/85	0001	MG/L	<	0.016		0.005	-
	05/21/86	0001			0.005		0.005	-
SILICA - SiO2	10/11/85	0001	MG/L		6.		2.	-
SILVER	10/11/85	0001	MG/L	<	0.01		0.01	-
SODIUM	10/11/85	0001	MG/L		690.		0.002	-
	05/21/86	0001			1110.		0.002	-
SPECIFIC CONDUCTANCE	10/11/85	0001	UMHO/CM		3000.		-	-
	05/21/86	0001			8000.		-	-
STRONTIUM	10/11/85	0001	MG/L		1.5		0.1	-
	05/21/86	0001			8.1		0.1	-
SULFATE	10/11/85	0001	MG/L		1200.		0.1	-
	05/21/86	0001			240.		0.1	-
SULFIDE	10/11/85	0001	MG/L	<	0.1		0.1	-
TEMPERATURE	10/11/85	0001	C - DEGREE		11.		-	-
	05/21/86	0001			15.		-	-
THORIUM-230	10/11/85	0001	PCI/L		1.1		1.	2.5
TIN	10/11/85	0001	MG/L	<	0.005		0.005	-
TOTAL DISSOLVED SOLIDS	10/11/85	0001	MG/L		1950.		10.	-
	05/21/86	0001			3520.		10.	-
URANIUM	10/11/85	0001	MG/L	<	0.0007 J		0.003	-
	05/21/86	0001			0.0003 J		0.003	-
VANADIUM	10/11/85	0001	MG/L	<	0.01		0.01	-
	05/21/86	0001			0.3		0.01	-
ZINC	10/11/85	0001	MG/L	<	0.005		0.005	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
SITE: AMB01 AMBROSIA LAKE
LOCATION: 0791
NORTH COORDINATE: 55739.9 FT
EAST COORDINATE: 60567.0 FT
06/10/80 TO 12/04/92
REPORT DATE: 08/04/94

FORMATION OF COMPLETION: TRES HERMANOS - C1 SANDSTONE (TO)
HYDRAULIC FLOW RELATIONSHIP: DOWN GRADIENT (D)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
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PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT SAMPLE ID CODES:

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0792
 NORTH COORDINATE: 55724.9 FT
 EAST COORDINATE: 60649.1 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: UPGRADIENT (U)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	05/15/86	0001	MG/L CACO3		329.		-	-
	04/06/88	0001			334.		-	-
	07/13/88	0001			294.		-	-
	01/06/89	0001			323.		-	-
	09/14/89	0001			292.		-	-
	03/31/90	0001			302.		-	-
	01/16/91	0001			240.		-	-
ALUMINUM	04/06/88	0001	MG/L		0.58		0.1	-
	07/13/88	0001			0.2		0.1	-
	01/06/89	0001		<	0.05	J	0.1	-
	09/14/89	0001		<	0.1		0.1	-
	03/31/90	0001		<	0.1		0.1	-
	01/16/91	0001		<	0.05		0.05	-
AMMONIUM	04/06/88	0001	MG/L	<	0.1		0.1	-
	07/13/88	0001		<	0.1		0.1	-
	01/06/89	0001			0.16		0.1	-
	09/14/89	0001		<	0.1		0.1	-
	03/31/90	0001		<	0.1		0.1	-
	01/16/91	0001			0.08		0.01	-
ANTIMONY	04/06/88	0001	MG/L		0.013		0.003	-
	07/13/88	0001			0.012		0.003	-
	01/06/89	0001		<	0.001	J	0.003	-
	09/14/89	0001		<	0.003		0.003	-
	03/31/90	0001			0.031		0.003	-
	01/16/91	0001			0.008		0.003	-
ARSENIC	05/15/86	0001	MG/L	<	0.01		0.01	-
	04/06/88	0001			0.016		0.01	-
	07/13/88	0001			0.01		0.01	-
	01/06/89	0001		<	0.001	J	0.01	-
	09/14/89	0001			0.01		0.01	-
	03/31/90	0001		<	0.01		0.01	-
	01/16/91	0001		<	0.03	I	0.03	-
BARIUM	04/06/88	0001	MG/L		0.02	J	0.1	-
	07/13/88	0001		<	0.1		0.1	-
	01/06/89	0001			0.01	J	0.1	-
	09/14/89	0001		<	0.1		0.1	-
	03/31/90	0001		<	0.1		0.1	-
	01/16/91	0001		<	0.01		0.01	-
BERYLLIUM	01/06/89	0001	MG/L	<	0.005		0.005	-
	09/14/89	0001		<	0.01		0.01	-
	03/31/90	0001		<	0.01		0.01	-
	01/16/91	0001		<	0.005		0.005	-
BORON	05/15/86	0001	MG/L		0.4		0.1	-
	04/06/88	0001			0.62		0.1	-
	07/13/88	0001			0.4		0.1	-
	01/06/89	0001			0.53		0.1	-
	09/14/89	0001			0.5		0.1	-
	03/31/90	0001			0.4		0.1	-
	01/16/91	0001			0.50		0.05	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:

I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0792
 NORTH COORDINATE: 55724.9 FT
 EAST COORDINATE: 60649.1 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: UPGRADIENT (U)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
BROMIDE	04/06/88	0001	MG/L		0.3		0.1	-
	07/13/88	0001			0.4		0.1	-
	01/06/89	0001			0.70		0.01	-
	09/14/89	0001			0.19		0.1	-
	03/31/90	0001			0.3		0.1	-
	01/16/91	0001			0.5		0.1	-
CADMIUM	05/15/86	0001	MG/L	<	0.001		0.001	-
	04/06/88	0001			0.005		0.001	-
	07/13/88	0001		<	0.001		0.001	-
	01/06/89	0001			0.0004	J	0.001	-
	09/14/89	0001			0.010		0.001	-
	03/31/90	0001		<	0.001		0.001	-
CALCIUM	05/15/86	0001	MG/L		502.		0.01	-
	04/06/88	0001			712.		0.01	-
	07/13/88	0001			524.		0.01	-
	01/06/89	0001			500.		0.01	-
	09/14/89	0001			481.		0.01	-
	03/31/90	0001			417.		0.01	-
CHLORIDE	05/15/86	0001	MG/L		180.		1.	-
	04/06/88	0001			190.		1.	-
	07/13/88	0001			190.		1.	-
	01/06/89	0001			85.		1.	-
	09/14/89	0001			140.		1.	-
	03/31/90	0001			92.		1.	-
CHROMIUM	05/15/86	0001	MG/L		0.04		0.01	-
	04/06/88	0001			0.28		0.01	-
	07/13/88	0001			0.14		0.01	-
	01/06/89	0001			0.01		0.01	-
	09/14/89	0001		<	0.01		0.01	-
	03/31/90	0001		<	0.01		0.01	-
COBALT	05/15/86	0001	MG/L		0.11		0.05	-
	04/06/88	0001			0.12		0.05	-
	07/13/88	0001		<	0.05		0.05	-
	01/06/89	0001		<	0.01	J	0.05	-
	09/14/89	0001		<	0.05		0.05	-
	03/31/90	0001		<	0.05		0.05	-
COPPER	05/15/86	0001	MG/L		0.03		0.03	-
	04/06/88	0001			0.06		0.02	-
	07/13/88	0001			0.03		0.02	-
	01/06/89	0001		<	0.01	J	0.02	-
	09/14/89	0001		<	0.02		0.02	-
	03/31/90	0001		<	0.02		0.02	-
CYANIDE	01/06/89	0001	MG/L	<	0.002	J	0.01	-
	09/14/89	0001		<	0.01		0.01	-
	03/31/90	0001		<	0.01		0.01	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0792
 NORTH COORDINATE: 55724.9 FT
 EAST COORDINATE: 60649.1 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: UPGRADIENT (U)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
CYANIDE	01/16/91	0001	MG/L	<	0.01		0.01	-
FLUORIDE	05/15/86	0001	MG/L		1.1		0.1	-
	04/06/88	0001			1.05		0.1	-
	07/13/88	0001			0.9		0.1	-
	01/06/89	0001			1.0		0.1	-
	09/14/89	0001			0.9		0.1	-
	03/31/90	0001			0.9		0.1	-
	01/16/91	0001			1.2		0.1	-
GROSS ALPHA	04/06/88	0001	PCI/L		2400.		0.2	10.
	07/13/88	0001			1800.		0.2	100.
	01/06/89	0001			1090.	J	1.	91.1
	09/14/89	0001			560.		1.	40.
	03/31/90	0001			1400.		1.	100.
GROSS BETA	04/06/88	0001	PCI/L		790.		1.	30.
	07/13/88	0001			670.		1.	40.
	01/06/89	0001			780.		0.5	52.0
	09/14/89	0001			280.		0.5	20.
	03/31/90	0001			670.		0.5	30.
IRON	05/15/86	0001	MG/L		0.04		0.03	-
	04/06/88	0001			0.18		0.03	-
	07/13/88	0001			0.08		0.03	-
	01/06/89	0001		<	0.02	J	0.03	-
	09/14/89	0001			0.08		0.03	-
	03/31/90	0001			0.25		0.03	-
	01/16/91	0001			0.07		0.03	-
LEAD	04/06/88	0001	MG/L		0.01		0.01	-
	07/13/88	0001		<	0.01		0.01	-
	01/06/89	0001		<	0.001	J	0.01	-
	09/14/89	0001			0.02		0.01	-
	03/31/90	0001		<	0.01		0.01	-
	01/16/91	0001		<	0.03	I	0.03	-
LEAD-210	04/06/88	0001	PCI/L		2.8		1.5	1.0
	07/13/88	0001			0.8		1.5	1.2
	01/06/89	0001			0.0818		1.5	5.22
	09/14/89	0001			0.4		1.5	0.7
MAGNESIUM	05/15/86	0001	MG/L		82.5		0.001	-
	04/06/88	0001			96.0		0.001	-
	07/13/88	0001			103.		0.001	-
	01/06/89	0001			102.		0.001	-
	09/14/89	0001			105.		0.001	-
	03/31/90	0001			101.		0.001	-
	01/16/91	0001			143.		0.5	-
MANGANESE	05/15/86	0001	MG/L		0.05		0.01	-
	04/06/88	0001			0.04		0.01	-
	07/13/88	0001			0.03		0.01	-
	01/06/89	0001			0.01		0.01	-
	09/14/89	0001		<	0.01		0.01	-
	03/31/90	0001		<	0.01		0.01	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
 I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0792
 NORTH COORDINATE: 55724.9 FT
 EAST COORDINATE: 60649.1 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: UPGRADIENT (U)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
MANGANESE	01/16/91	0001	MG/L		0.01		0.01	-
MERCURY	04/06/88	0001	MG/L		0.0007		0.0002	-
	07/13/88	0001			0.0002		0.0002	-
	01/06/89	0001		<	0.0001	J	0.0002	-
	09/14/89	0001		<	0.0002		0.0002	-
	03/31/90	0001		<	0.0002		0.0002	-
	01/16/91	0001		<	0.0002		0.0002	-
MOLYBDENUM	05/15/86	0001	MG/L		1.87		0.01	-
	04/06/88	0001			1.63		0.01	-
	07/13/88	0001			1.26		0.01	-
	01/06/89	0001			1.410		0.01	-
	09/14/89	0001			1.19		0.01	-
	03/31/90	0001			1.25		0.01	-
	01/16/91	0001			1.17		0.01	-
NET GROSS ALPHA *	04/06/88	0001	PCI/L		300.84		-	-
	07/13/88	0001			-45.34		-	-
	01/06/89	0001			-590.70		-	-
	09/14/89	0001			-256.34		-	-
	03/31/90	0001			199.50		-	-
NICKEL	04/06/88	0001	MG/L		0.13		0.04	-
	07/13/88	0001			0.04		0.04	-
	01/06/89	0001		<	0.02	J	0.04	-
	09/14/89	0001		<	0.04		0.04	-
	03/31/90	0001		<	0.04		0.04	-
	01/16/91	0001		<	0.04		0.04	-
NITRATE	05/15/86	0001	MG/L	<	1.		1.	-
	04/06/88	0001			1.6		1.	-
	07/13/88	0001			1.8		1.	-
	01/06/89	0001			0.2	J	1.	-
	09/14/89	0001		<	1.		1.	-
	03/31/90	0001			0.9	J	1.	-
	01/16/91	0001			1.3	J	0.1	-
NITRITE AND NITRATE	04/06/88	0001	MG/L		1.6		1.	-
	03/31/90	0001			0.2	J	1.	-
	01/16/91	0001			0.31		0.05	-
PH	05/15/86	0001	SU		7.35		-	-
	04/06/88	0001			7.13		-	-
	07/13/88	0001			7.08		-	-
	01/06/89	0001			7.11		-	-
	09/14/89	0001			7.05		-	-
	03/31/90	0001			7.05		-	-
	01/16/91	0001			7.54		-	-
PHOSPHATE	04/06/88	0001	MG/L	<	0.1		0.1	-
	07/13/88	0001		<	0.1		0.1	-
	01/06/89	0001		<	0.1		0.1	-
	09/14/89	0001		<	0.1		0.1	-
	03/31/90	0001		<	0.1		0.1	-

* NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0792
 NORTH COORDINATE: 55724.9 FT
 EAST COORDINATE: 60649.1 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: UPGRADIENT (U)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
PHOSPHATE	01/16/91	0001	MG/L		0.05		0.05	-
POLONIUM-210	04/06/88	0001	PCI/L		2.1		1.	0.7
	07/13/88	0001			1.7		1.	0.7
	01/06/89	0001			0.196		1.	1.49
	09/14/89	0001			2.3		1.	0.6
POTASSIUM	05/15/86	0001	MG/L		1.01		0.01	-
	04/06/88	0001			0.62		0.01	-
	07/13/88	0001			0.61		0.01	-
	01/06/89	0001			0.8		0.01	-
	09/14/89	0001			0.7		0.01	-
	03/31/90	0001			0.8		0.01	-
	01/16/91	0001			0.89		0.01	-
RADIUM-226	05/15/86	0001	PCI/L		0.8		1.	0.4
	04/06/88	0001			0.2		1.	0.2
	07/13/88	0001			0.4		1.	0.2
	01/06/89	0001			0.751		1.	0.309
	09/14/89	0001			0.1		1.	0.1
	03/31/90	0001			0.8		1.	0.3
RADIUM-226 + RADIUM-228	04/06/88	0001	PCI/L		0.30		-	-
	07/13/88	0001			0.50		-	-
	01/06/89	0001			6.85		-	-
	09/14/89	0001			0.20		-	-
	03/31/90	0001			2.50		-	-
RADIUM-228	04/06/88	0001	PCI/L		0.1		1.	0.8
	07/13/88	0001			0.1		1.	0.7
	01/06/89	0001			6.10		1.	4.20
	09/14/89	0001			0.1		1.	0.9
	03/31/90	0001			1.7		1.	0.9
SELENIUM	05/15/86	0001	MG/L	<	0.005		0.005	-
	04/06/88	0001			0.889		0.005	-
	07/13/88	0001			0.767		0.005	-
	01/06/89	0001			1.800		0.005	-
	09/14/89	0001			1.62		0.005	-
	03/31/90	0001			2.22		0.005	-
	01/16/91	0001			0.950		0.005	-
SILICA - SiO2	04/06/88	0001	MG/L		19.7		2.	-
	07/13/88	0001			15.9		2.	-
	01/06/89	0001			15.5		2.	-
	09/14/89	0001			17.		2.	-
	03/31/90	0001			15.		2.	-
	01/16/91	0001			14.3		0.1	-
SILVER	04/06/88	0001	MG/L		0.11		0.01	-
	07/13/88	0001			0.03		0.01	-
	01/06/89	0001		<	0.01		0.01	-
	09/14/89	0001		<	0.01		0.01	-
	03/31/90	0001		<	0.01		0.01	-
	01/16/91	0001		<	0.01		0.01	-
SODIUM	05/15/86	0001	MG/L		730.		0.002	-
	04/06/88	0001			369.		0.002	-

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 REPORT DATE: 08/04/94

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 HYDRAULIC FLOW RELATIONSHIP: UPGRADIENT (U)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
SODIUM	07/13/88	0001	MG/L		479.		0.002	-
	01/06/89	0001			505.		0.002	-
	09/14/89	0001			482.		0.002	-
	03/31/90	0001			438.		0.002	-
	01/16/91	0001			528.		5.	-
SPECIFIC CONDUCTANCE	05/15/86	0001	UMHO/CM		3300.		-	-
	04/06/88	0001			2850.		-	-
	07/13/88	0001			2900.		-	-
	01/06/89	0001			1950.		-	-
	09/14/89	0001			2050.		-	-
	03/31/90	0001			2500.		-	-
STRONTIUM	05/15/86	0001	MG/L		0.6		0.1	-
	04/06/88	0001			4.43		0.1	-
	07/13/88	0001			5.7		0.1	-
	01/06/89	0001			6.4		0.1	-
	09/14/89	0001			5.8		0.1	-
	03/31/90	0001			5.21		0.1	-
SULFATE	05/15/86	0001	MG/L		2550.		0.1	-
	04/06/88	0001			2340.		0.1	-
	07/13/88	0001			2140.		0.1	-
	01/06/89	0001			2346.		0.1	-
	09/14/89	0001			2290.		0.1	-
	03/31/90	0001			2150.		0.1	-
SULFIDE	05/15/86	0001	MG/L		2470.		10.	-
	04/06/88	0001						
	07/13/88	0001						
	01/06/89	0001						
	09/14/89	0001						
	03/31/90	0001						
TEMPERATURE	05/15/86	0001	C - DEGREE		16.		-	-
	04/06/88	0001			10.0		-	-
	07/13/88	0001			11.5		-	-
	01/06/89	0001			11.0		-	-
	09/14/89	0001			13.0		-	-
	03/31/90	0001			10.		-	-
THALLIUM	01/06/89	0001	MG/L		10.		-	-
	09/14/89	0001						
	03/31/90	0001						
	01/16/91	0001						
THORIUM-230	01/06/89	0001	PCI/L					
	09/14/89	0001						
	03/31/90	0001						
	01/16/91	0001						
TIN	05/15/86	0001	MG/L		0.4		1.	0.4
	04/06/88	0001			0.1		1.	0.5
	07/13/88	0001			0.3		1.	0.4
	01/06/89	0001			1.26		1.	0.203
	09/14/89	0001			0.1		1.	0.4
TIN	04/06/88	0001	MG/L		0.029		0.005	-

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GROUNDWATER QUALITY DATA BY LOCATION
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 LOCATION: 0792
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 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: UPGRADIENT (U)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
TIN	07/13/88	0001	MG/L		0.014		0.005	-
	01/06/89	0001		<	0.005		0.005	-
	09/14/89	0001		<	0.1		0.1	-
	03/31/90	0001			0.014		0.005	-
	01/16/91	0001		<	0.03	I	0.03	-
TOTAL DISSOLVED SOLIDS	05/15/86	0001	MG/L		4110.		10.	-
	04/06/88	0001			4100.		10.	-
	07/13/88	0001			4180.		10.	-
	01/06/89	0001			3782.		10.	-
	09/14/89	0001			3750.		10.	-
	03/31/90	0001			3360.		10.	-
	01/16/91	0001			4120.		10.	-
TOTAL KJELDAHL NITROGEN	01/16/91	0001	MG/L		1.		1.	-
TOTAL ORGANIC CARBON	04/06/88	0001	MG/L		95.7		1.	-
	07/13/88	0001			75.8		1.	-
	01/06/89	0001			7.		1.	-
	09/14/89	0001			79.6		1.	-
	03/31/90	0001			8.2		1.	-
	01/16/91	0001			6.	J	1.	-
URANIUM	05/15/86	0001	MG/L		3.31		0.003	-
	04/06/88	0001			3.06		0.003	-
	07/13/88	0001			2.69		0.003	-
	01/06/89	0001			2.450		0.003	-
	09/14/89	0001			1.19		0.003	-
	03/31/90	0001			1.75		0.003	-
	01/16/91	0001			2.25		0.001	-
VANADIUM	05/15/86	0001	MG/L		0.26		0.01	-
	04/06/88	0001			0.15		0.01	-
	07/13/88	0001			0.06		0.01	-
	01/06/89	0001		<	0.01		0.01	-
	09/14/89	0001		<	0.01		0.01	-
	03/31/90	0001		<	0.01		0.01	-
	01/16/91	0001		<	0.01		0.01	-
ZINC	04/06/88	0001	MG/L		0.070		0.005	-
	07/13/88	0001			0.016		0.005	-
	01/06/89	0001		<	0.01		0.01	-
	09/14/89	0001		<	0.005		0.005	-
	03/31/90	0001			0.016		0.005	-
	01/16/91	0001			0.024		0.005	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

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 J - ESTIMATED VALUE

GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0793
 NORTH COORDINATE: 55493.0 FT
 EAST COORDINATE: 60225.7 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: UPGRADIENT (U)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALKALINITY	05/15/86	0001	MG/L CaCO3		672.		-	-
	04/06/88	0001			612.		-	-
	07/13/88	0001			519.		-	-
	01/06/89	0001			362.		-	-
	09/19/89	0001			149.		-	-
	04/06/90	0001			142.		-	-
	01/16/91	0001			133.		-	-
	11/25/92	0001			168		-	-
ALUMINUM	04/06/88	0001	MG/L		0.56		0.1	-
	07/13/88	0001			0.2		0.1	-
	01/06/89	0001		<	0.05	J	0.1	-
	09/19/89	0001		<	0.1		0.1	-
	04/06/90	0001		<	0.1		0.1	-
	01/16/91	0001		<	0.05		0.05	-
AMMONIUM	04/06/88	0001	MG/L	<	0.1		0.1	-
	07/13/88	0001		<	0.1		0.1	-
	01/06/89	0001			0.16		0.1	-
	09/19/89	0001		<	0.1		0.1	-
	04/06/90	0001		<	0.1		0.1	-
	01/16/91	0001		<	0.01		0.01	-
	11/25/92	0001		<	0.1		0.1	-
ANTIMONY	04/06/88	0001	MG/L		0.010		0.003	-
	07/13/88	0001			0.014		0.003	-
	01/06/89	0001		<	0.001	J	0.003	-
	09/19/89	0001		<	0.003		0.003	-
	04/06/90	0001			0.045		0.003	-
	01/16/91	0001		<	0.003		0.003	-
	11/25/92	0001		<	0.003		0.003	-
ARSENIC	05/15/86	0001	MG/L	<	0.01		0.01	-
	04/06/88	0001			0.016		0.01	-
	07/13/88	0001			0.01		0.01	-
	01/06/89	0001		<	0.001	J	0.01	-
	09/19/89	0001			0.01		0.01	-
	04/06/90	0001		<	0.01		0.01	-
	01/16/91	0001		<	0.03	I	0.03	-
BARIUM	04/06/88	0001	MG/L		0.02	J	0.1	-
	07/13/88	0001		<	0.1		0.1	-
	01/06/89	0001			0.01	J	0.1	-
	09/19/89	0001		<	0.1		0.1	-
	04/06/90	0001		<	0.1		0.1	-
	01/16/91	0001		<	0.01		0.01	-
BERYLLIUM	01/06/89	0001	MG/L	<	0.005		0.005	-
	09/19/89	0001		<	0.01		0.01	-
	04/06/90	0001		<	0.01		0.01	-
	01/16/91	0001		<	0.005		0.005	-
BORON	05/15/86	0001	MG/L		0.6		0.1	-
	04/06/88	0001			0.65		0.1	-
	07/13/88	0001			0.5		0.1	-
	01/06/89	0001			0.57		0.1	-

PARAMETER VALUE INDICATOR (PVI): < - LESS THAN DETECTION LIMIT

SAMPLE ID CODES:
 0001 - FILTERED SAMPLE (.45 MICRONS)

OTHER PARAMETER VALUE FLAGS:
 I - INCREASED DETECTION LIMIT DUE TO REQUIRED DILUTION
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GROUNDWATER QUALITY DATA BY LOCATION
 SITE: AMB01 AMBROSIA LAKE
 LOCATION: 0793
 NORTH COORDINATE: 55493.0 FT
 EAST COORDINATE: 60225.7 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: UPGRADIENT (U)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
BORON	09/19/89	0001	MG/L		0.6		0.1	-
	04/06/90	0001			0.6		0.1	-
	01/16/91	0001			0.69		0.05	-
BROMIDE	04/06/88	0001	MG/L		1.1		0.1	-
	07/13/88	0001			1.6		0.1	-
	01/06/89	0001			2.42		0.01	-
	09/19/89	0001			0.19		0.1	-
	04/06/90	0001			3.8		0.1	-
	01/16/91	0001			9.1		0.1	-
CADMIUM	05/15/86	0001	MG/L	<	0.001		0.001	-
	04/06/88	0001			0.005		0.001	-
	07/13/88	0001		<	0.001		0.001	-
	01/06/89	0001			0.0002	J	0.001	-
	09/19/89	0001			0.013		0.001	-
	04/06/90	0001		<	0.001		0.001	-
	01/16/91	0001			0.002		0.001	-
	11/25/92	0001		<	0.05	I	0.05	-
CALCIUM	05/15/86	0001	MG/L		510.		0.01	-
	04/06/88	0001			610.		0.01	-
	07/13/88	0001			500.		0.01	-
	01/06/89	0001			600.		0.01	-
	09/19/89	0001			590.		0.01	-
	04/06/90	0001			507.		0.01	-
	01/16/91	0001			600.		0.01	-
	11/25/92	0001			615.		2.	-
CHLORIDE	05/15/86	0001	MG/L		230.		1.	-
	04/06/88	0001			170.		1.	-
	07/13/88	0001			200.		1.	-
	01/06/89	0001			208.		1.	-
	09/19/89	0001			430.		1.	-
	04/06/90	0001			518.		1.	-
	01/16/91	0001			643.		0.5	-
	11/25/92	0001			77.		1.	-
CHROMIUM	05/15/86	0001	MG/L		0.03		0.01	-
	04/06/88	0001			0.28		0.01	-
	07/13/88	0001			0.15		0.01	-
	01/06/89	0001			0.01		0.01	-
	09/19/89	0001		<	0.01		0.01	-
	04/06/90	0001		<	0.01		0.01	-
	01/16/91	0001		<	0.01		0.01	-
	11/25/92	0001		<	0.01		0.01	-
COBALT	05/15/86	0001	MG/L		0.08		0.05	-
	04/06/88	0001			0.13		0.05	-
	07/13/88	0001		<	0.05		0.05	-
	01/06/89	0001		<	0.01	J	0.05	-
	09/19/89	0001		<	0.05		0.05	-
	04/06/90	0001		<	0.05		0.05	-
	01/16/91	0001		<	0.03		0.03	-
	11/25/92	0001		<	0.03		0.03	-
COPPER	04/06/88	0001	MG/L		0.06		0.02	-

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COPPER	07/13/88	0001	MG/L		0.03		0.02	-
	01/06/89	0001		<	0.01	J	0.02	-
	09/19/89	0001		<	0.02		0.02	-
	04/06/90	0001		<	0.02		0.02	-
	01/16/91	0001		<	0.01		0.01	-
CYANIDE	01/06/89	0001	MG/L	<	0.002	J	0.01	-
	09/19/89	0001		<	0.01		0.01	-
	04/06/90	0001		<	0.01		0.01	-
	01/16/91	0001		<	0.01		0.01	-
FLUORIDE	05/15/86	0001	MG/L		2.2		0.1	-
	04/06/88	0001			2.50		0.1	-
	07/13/88	0001			2.3		0.1	-
	01/06/89	0001			2.8		0.1	-
	09/19/89	0001			2.4		0.1	-
	04/06/90	0001			2.5		0.1	-
	01/16/91	0001			2.9		0.1	-
	11/25/92	0001			5.5		0.2	-
GROSS ALPHA	04/06/88	0001	PCI/L		320.		0.2	50.
	07/13/88	0001			170.		0.2	40.
	01/06/89	0001			84.6	J	1.	31.2
	09/19/89	0001			69.		1.	34.
	04/06/90	0001			66.		1.	30.
	01/16/91	0001			115.		1.	54.3
	11/25/92	0001			3.2	H	1.0	37.8
GROSS BETA	04/06/88	0001	PCI/L		120.		1.	20.
	07/13/88	0001			62.		1.	13.
	01/06/89	0001			63.8		0.5	25.4
	09/19/89	0001			58.		0.5	21.
	04/06/90	0001			18.		0.5	21.
	01/16/91	0001			67.7		0.5	24.0
	11/25/92	0001			0.0		98.9	56.5
IRON	05/15/86	0001	MG/L		0.04		0.03	-
	04/06/88	0001			0.17		0.03	-
	07/13/88	0001			0.08		0.03	-
	01/06/89	0001		<	0.02	J	0.03	-
	09/19/89	0001			0.09		0.03	-
	04/06/90	0001			0.09		0.03	-
	01/16/91	0001		<	0.03		0.03	-
	11/25/92	0001		<	0.03		0.03	-
LEAD	04/06/88	0001	MG/L		0.01		0.01	-
	07/13/88	0001		<	0.01		0.01	-
	01/06/89	0001		<	0.001	J	0.01	-
	09/19/89	0001			0.02		0.01	-
	04/06/90	0001		<	0.01		0.01	-
	01/16/91	0001		<	0.03	I	0.03	-
LEAD-210	04/06/88	0001	PCI/L		1.8		1.5	1.1
	07/13/88	0001			0.5		1.5	1.1
	01/06/89	0001			5.09		1.5	3.71

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 LOCATION: 0793
 NORTH COORDINATE: 55493.0 FT
 EAST COORDINATE: 60225.7 FT
 06/10/80 TO 12/04/92
 REPORT DATE: 08/04/94

FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: UPGRADIENT (U)

PARAMETER NAME	LOG DATE	SAMPLE ID	UNITS OF MEASURE	PVI	PARAMETER VALUE	FLAGS	DETECTION LIMIT	PARAMETER UNCERTAINTY
LEAD-210	09/19/89	0001	PCI/L		0.0		1.5	0.7
MAGNESIUM	05/15/86	0001	MG/L		138.		0.001	-
	04/06/88	0001			140.		0.001	-
	07/13/88	0001			143.		0.001	-
	01/06/89	0001			150.		0.001	-
	09/19/89	0001			170.		0.001	-
	04/06/90	0001			158.		0.001	-
	01/16/91	0001			194.		0.5	-
	11/25/92	0001			178.		0.5	-
MANGANESE	05/15/86	0001	MG/L		0.07		0.01	-
	04/06/88	0001			0.04		0.01	-
	07/13/88	0001			0.02		0.01	-
	01/06/89	0001		<	0.01		0.01	-
	09/19/89	0001		<	0.01		0.01	-
	04/06/90	0001		<	0.01		0.01	-
	01/16/91	0001		<	0.01		0.01	-
MERCURY	04/06/88	0001	MG/L		0.0003		0.0002	-
	07/13/88	0001		<	0.0002		0.0002	-
	01/06/89	0001		<	0.0001	J	0.0002	-
	09/19/89	0001		<	0.0002		0.0002	-
	04/06/90	0001		<	0.0002		0.0002	-
	01/16/91	0001		<	0.0002		0.0002	-
MOLYBDENUM	05/15/86	0001	MG/L		1.59		0.01	-
	04/06/88	0001			2.01		0.01	-
	07/13/88	0001			1.41		0.01	-
	01/06/89	0001			1.450		0.01	-
	09/19/89	0001			1.19		0.01	-
	04/06/90	0001			0.25		0.01	-
	01/16/91	0001			0.07		0.01	-
	11/25/92	0001			0.06		0.01	-
NET GROSS ALPHA *	04/06/88	0001	PCI/L		50.40		-	-
	07/13/88	0001			1.93		-	-
	01/06/89	0001			-45.74		-	-
	09/19/89	0001			7.95		-	-
	04/06/90	0001			37.19		-	-
	01/16/91	0001			97.85		-	-
	11/25/92	0001			-18.07		-	-
NICKEL	04/06/88	0001	MG/L		0.14		0.04	-
	07/13/88	0001			0.05		0.04	-
	01/06/89	0001		<	0.02	J	0.04	-
	09/19/89	0001		<	0.04		0.04	-
	04/06/90	0001		<	0.04		0.04	-
	01/16/91	0001		<	0.04		0.04	-
	11/25/92	0001			0.08		0.04	-
NITRATE	05/15/86	0001	MG/L		55.		1.	-
	04/06/88	0001			130.		1.	-
	07/13/88	0001			210.		1.	-
	01/06/89	0001			252.		1.	-

* NET GROSS ALPHA (GROSS ALPHA - URANIUM) WITH 1 MG URANIUM = 686 PCI

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FORMATION OF COMPLETION: ALLUVIUM (AL)
 HYDRAULIC FLOW RELATIONSHIP: UPGRADIENT (U)

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NITRATE	09/19/89	0001	MG/L		500.		1.	-
	04/06/90	0001			536.		1.	-
	01/16/91	0001			655.	J	0.1	-
	11/25/92	0001			830.		150.	-
NITRITE AND NITRATE	04/06/88	0001	MG/L		130.		1.	-
	04/06/90	0001			121.		1.	-
	01/16/91	0001			140.		0.05	-
PH	05/15/86	0001	SU		7.37		-	-
	04/06/88	0001			7.37		-	-
	07/13/88	0001			7.28		-	-
	01/06/89	0001			7.41		-	-
	09/19/89	0001			7.22		-	-
	04/06/90	0001			7.15		-	-
	01/16/91	0001			7.76		-	-
	11/25/92	0001			7.46		-	-
PHOSPHATE	04/06/88	0001	MG/L	<	0.1		0.1	-
	07/13/88	0001		<	0.1		0.1	-
	01/06/89	0001		<	0.1		0.1	-
	09/19/89	0001		<	0.1		0.1	-
	04/06/90	0001		<	0.1		0.1	-
	01/16/91	0001		<	0.05		0.05	-
	11/25/92	0001			0.2		0.1	-
POLONIUM-210	04/06/88	0001	PCI/L		0.0		1.	0.4
	07/13/88	0001			0.0		1.	0.4
	01/06/89	0001			0.00		1.	1.38
	09/19/89	0001			0.0		1.	0.3
POTASSIUM	05/15/86	0001	MG/L		2.49		0.01	-
	04/06/88	0001			1.68		0.01	-
	07/13/88	0001			2.2		0.01	-
	01/06/89	0001			1.9		0.01	-
	09/19/89	0001			2.4		0.01	-
	04/06/90	0001			2.8		0.01	-
	01/16/91	0001			2.6		0.01	-
	11/25/92	0001			4.16		0.01	-
RADIUM-226	05/15/86	0001	PCI/L		0.7		1.	0.3
	04/06/88	0001			0.0		1.	0.1
	07/13/88	0001			0.4		1.	0.2
	01/06/89	0001			1.36		1.	0.450
	09/19/89	0001			0.2		1.	0.2
	04/06/90	0001			0.3		1.	0.2
	01/16/91	0001			1.6		1.	0.6
	11/25/92	0001			0.5		0.3	0.3
RADIUM-226 + RADIUM-228	04/06/88	0001	PCI/L		0.00		-	-
	07/13/88	0001			0.60		-	-
	01/06/89	0001			1.36		-	-
	09/19/89	0001			0.70		-	-
	04/06/90	0001			1.00		-	-
	01/16/91	0001			2.30		-	-
	11/25/92	0001			0.90		-	-
RADIUM-228	04/06/88	0001	PCI/L		0.0		1.	0.8

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RADIUM-228	07/13/88	0001	PCI/L		0.2		1.	0.7
	01/06/89	0001			0.00		1.	18.1
	09/19/89	0001			0.5		1.	0.9
	04/06/90	0001			0.7		1.	0.9
	01/16/91	0001			0.7		1.	1.9
	11/25/92	0001			0.4	H	1.0	1.3
SELENIUM	05/15/86	0001	MG/L		0.003	J	0.005	-
	04/06/88	0001			0.802		0.005	-
	07/13/88	0001			0.910		0.005	-
	01/06/89	0001			1.100		0.005	-
	09/19/89	0001			1.62		0.005	-
	04/06/90	0001			1.95		0.005	-
	01/16/91	0001			1.90		0.005	-
	11/25/92	0001			2.1		0.1	-
SILICA - SiO2	04/06/88	0001	MG/L		21.1		2.	-
	07/13/88	0001			18.1		2.	-
	01/06/89	0001			17.2		2.	-
	09/19/89	0001			16.		2.	-
	04/06/90	0001			15.		2.	-
	01/16/91	0001			14.8		0.1	-
SILVER	04/06/88	0001	MG/L		0.11		0.01	-
	07/13/88	0001			0.03		0.01	-
	01/06/89	0001		<	0.01		0.01	-
	09/19/89	0001		<	0.01		0.01	-
	04/06/90	0001		<	0.01		0.01	-
	01/16/91	0001		<	0.01		0.01	-
	11/25/92	0001		<	0.01		0.01	-
SODIUM	05/15/86	0001	MG/L		685.		0.002	-
	04/06/88	0001			433.		0.002	-
	07/13/88	0001			511.		0.002	-
	01/06/89	0001			555.		0.002	-
	09/19/89	0001			654.		0.002	-
	04/06/90	0001			689.		0.002	-
	01/16/91	0001			901.		5.	-
	11/25/92	0001			849.		5.	-
SPECIFIC CONDUCTANCE	05/15/86	0001	UMHO/CM		3350.		-	-
	04/06/88	0001			2950.		-	-
	07/13/88	0001			2900.		-	-
	01/06/89	0001			2400.		-	-
	09/19/89	0001			1050.		-	-
	04/06/90	0001			3150.		-	-
	01/16/91	0001			4250.		-	-
	11/25/92	0001			5700		-	-
STRONTIUM	05/15/86	0001	MG/L		1.1		0.1	-
	04/06/88	0001			5.89		0.1	-
	07/13/88	0001			8.1		0.1	-
	01/06/89	0001			10.3		0.1	-
	09/19/89	0001			5.8		0.1	-
	04/06/90	0001			11.4		0.1	-
	01/16/91	0001			12.5		0.01	-

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SULFATE	05/15/86	0001	MG/L		2530.		0.1	-
	04/06/88	0001			2200.		0.1	-
	07/13/88	0001			2020.		0.1	-
	01/06/89	0001			2461.		0.1	-
	09/19/89	0001			2480.		0.1	-
	04/06/90	0001			2190.		0.1	-
	01/16/91	0001			2520.		10.	-
	11/25/92	0001			2530.		10.	-
SULFIDE	04/06/88	0001	MG/L	<	0.1		0.1	-
	07/13/88	0001		<	0.1		0.1	-
	01/06/89	0001		<	0.01	J	0.1	-
	09/19/89	0001		<	0.1		0.1	-
	04/06/90	0001		<	0.1		0.1	-
	01/16/91	0001			0.6	J	0.1	-
TEMPERATURE	05/15/86	0001	C - DEGREE		16.		1.	-
	04/06/88	0001			11.5		-	-
	07/13/88	0001			12.0		-	-
	01/06/89	0001			11.0		-	-
	09/19/89	0001			12.5		-	-
	04/06/90	0001			12.5		-	-
	01/16/91	0001			11.		-	-
	11/25/92	0001			9.0		-	-
THALLIUM	01/06/89	0001	MG/L		0.002		0.001	-
	09/19/89	0001		<	0.01		0.01	-
	04/06/90	0001		<	0.01		0.01	-
	01/16/91	0001		<	0.03	I	0.03	-
THORIUM-230	05/15/86	0001	PCI/L		0.3		1.	0.3
	04/06/88	0001			0.0		1.	0.5
	07/13/88	0001			0.2		1.	0.4
	01/06/89	0001			1.08		1.	0.507
	09/19/89	0001			0.1		1.	0.4
TIN	04/06/88	0001	MG/L		0.026		0.005	-
	07/13/88	0001			0.013		0.005	-
	01/06/89	0001		<	0.005		0.005	-
	09/19/89	0001		<	0.1		0.1	-
	04/06/90	0001			0.026		0.005	-
	01/16/91	0001		<	0.03	I	0.03	-
TOTAL DISSOLVED SOLIDS	05/15/86	0001	MG/L		4400.		10.	-
	04/06/88	0001			4160.		10.	-
	07/13/88	0001			4320.		10.	-
	01/06/89	0001			4296.		10.	-
	09/19/89	0001			3750.		10.	-
	04/06/90	0001			5050.		10.	-
	01/16/91	0001			5840.		10.	-
	11/25/92	0001			6220.		10.	-
TOTAL KJELDAHL NITROGEN	01/16/91	0001	MG/L	<	1.		1.	-
	11/25/92	0001		<	1.		1.	-
TOTAL ORGANIC CARBON	04/06/88	0001	MG/L		110.		1.	-

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TOTAL ORGANIC CARBON	07/13/88	0001	MG/L		97.8		1.	-
	01/06/89	0001			15.		1.	-
	09/19/89	0001			79.6		1.	-
	04/06/90	0001			25.9		1.	-
	01/16/91	0001			28.	J	1.	-
	11/25/92	0001			32.		1.	-
URANIUM	05/15/86	0001	MG/L		0.288		0.003	-
	04/06/88	0001			0.393		0.003	-
	07/13/88	0001			0.245		0.003	-
	01/06/89	0001			0.190		0.003	-
	09/19/89	0001			0.089		0.003	-
	04/06/90	0001			0.042		0.003	-
	01/16/91	0001			0.025		0.001	-
	11/25/92	0001			0.031	H	0.001	-
VANADIUM	05/15/86	0001	MG/L		0.39		0.01	-
	04/06/88	0001			0.15		0.01	-
	07/13/88	0001			0.06		0.01	-
	01/06/89	0001		<	0.01		0.01	-
	09/19/89	0001		<	0.01		0.01	-
	04/06/90	0001		<	0.01		0.01	-
	01/16/91	0001		<	0.01		0.01	-
	11/25/92	0001		<	0.01		0.01	-
ZINC	04/06/88	0001	MG/L		0.068		0.005	-
	07/13/88	0001			0.035		0.005	-
	01/06/89	0001		<	0.01		0.01	-
	09/19/89	0001		<	0.005		0.005	-
	04/06/90	0001			0.008		0.005	-
	01/16/91	0001			0.046		0.005	-

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DATA FILE NAME: M:\DAKT\AMB01\GWQ10012.DAT